LONGHORN ARMY AMMUNITION PLANT KARNACK, TEXAS

ADMINISTRATIVE RECORD

Volume 26

2025

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Longhorn Army Ammunition Plant

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LONGHORN ARMY AMMUNITION PLANT
KARNACK, TEXAS
ADMINISTRATIVE RECORD - CHRONOLOGICAL INDEX

VOLUME 26
2025

A. Title: Rpt - Level IV DoD File No. 1 to Draft Final 2024 Remedial Action Operation Report, LHAAP-35A (58) Shops Area, Longhorn Army Ammunition Plant (LHAAP), Karnack, Texas
Author(s): PCI-Bhate JV
Recipient: Environmental Protection Agency and Texas Commission on Environmental Quality

Date: August 27, 2025
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B. Title: Rpt - Level IV DoD File No. 2 to Draft Final 2024 Remedial Action Operation Report, LHAAP-35A (58) Shops Area, Longhorn Army Ammunition Plant (LHAAP), Karnack, Texas
Author(s): PCI-Bhate JV
Recipient: Environmental Protection Agency and Texas Commission on Environmental Quality

Date: Au ust 27, 2025
Bate Stamp: 1337532-1339017

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WorkOrder: HS24051535

LHAAP-58

Bhate Environmental Associates, Inc.

Marcia Olive
445 Union Blvd Ste 129
Lakewood CO 80228

24-Jun-2024

WorkOrder: HS24051535

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HS24051535 LHAAP58 COVER PAGE

ALS WO# HS24051535

HS24051535 LHAAP58 Final

ALS WO# HS24051535

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June 10, 2024

Marcia Olive
Bhate Environmental Associates, Inc.
445 Union Blvd Ste 129
Lakewood, CO 80228

Work Order: **HS24051535**

Laboratory Results for: **LHAAP-58**

Dear Marcia Olive,

ALS Environmental received 8 sample(s) on May 24, 2024 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: DAYNA.FISHER
Luis.Aguilar

ALS Houston, US Date: 10-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
Work Order: HS24051535

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS24051535-01	35AWW19_052324	Groundwater		23-May-2024 07:40	24-May-2024 09:50	☐
HS24051535-02	LHSMW07_052324	Groundwater		23-May-2024 08:30	24-May-2024 09:50	☐
HS24051535-03	35AWW20_052324	Groundwater		23-May-2024 09:20	24-May-2024 09:50	☐
HS24051535-04	35AWW11_052324	Groundwater		23-May-2024 10:10	24-May-2024 09:50	☐
HS24051535-05	35AWW23_052324	Groundwater		23-May-2024 11:00	24-May-2024 09:50	☐
HS24051535-06	35AWW06_052324	Groundwater		23-May-2024 11:50	24-May-2024 09:50	☐
HS24051535-07	35AWW18_052324	Groundwater		23-May-2024 12:40	24-May-2024 09:50	☐
HS24051535-08	Trip Blank	Water		23-May-2024 00:00	24-May-2024 09:50	☐

ALS Houston, US Date: 10-Jun-24

Client: Bhate Environmental Associates, Inc. **CASE NARRATIVE**
Project: LHAAP-58
Work Order: HS24051535

Work Order Comments

- The analysis for Carbon Dioxide was subcontracted to Eurofins in Lancaster. PA. Final report attached.
- The analysis for DHC/DHB was subcontracted to Microbial Insights in Knoxville, TN. Final report attached.

GC Semivolatiles by Method RSK-175

Batch ID: R468585

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

GCMS Volatiles by Method SW8260

Batch ID: R468713

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Batch ID: R468115

Sample ID: HS24051490-05MS

- MS and MSD are for an unrelated sample

Metals by Method SW6020A

Batch ID: 213120

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method E415.1

Batch ID: R468951

Sample ID: 35AWW19_052324 (HS24051535-01MS)

- The recovery of the Matrix Spike (MS) associated to this analyte was outside of the established control limits. However, the LCS was within control limits. The recovery of the MS may be due to sample matrix interference.

WetChemistry by Method SW9056

Batch ID: R467693

Sample ID: 35AWW11_052324 (HS24051535-04)

- The reporting limit is elevated due to dilution for high concentrations of non-target analytes. (Nitrogen, Nitrate (As N))

Sample ID: 35AWW19_052324 (HS24051535-01MS)

- The MS and/or MSD recovery was outside of the control limits; however, the result in the parent sample is greater than 4x the spike amount. (Sulfate)

Sample ID: LHSMW07_052324 (HS24051535-02)

- The reporting limit is elevated due to dilution for high concentrations of non-target analytes. (Nitrogen, Nitrate (As N))

ALS Houston, US Date: 10-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
Sample ID: 35AWW19_052324
Collection Date: 23-May-2024 07:40

ANALYTICAL REPORT
WorkOrder:HS24051535
Lab ID:HS24051535-01
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
1,1,1,2-Tetrachloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 18:56
1,1,1-Trichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 18:56
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	30-May-2024 18:56
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 18:56
1,1-Dichloroethane	**0.88**	J	**0.20**	**1.0**	**1.0**	**ug/L**	1	30-May-2024 18:56
1,1-Dichloroethene	**3.8**		**0.20**	**1.0**	**1.0**	**ug/L**	1	30-May-2024 18:56
1,1-Dichloropropene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 18:56
1,2,3-Trichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	30-May-2024 18:56
1,2,3-Trichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	30-May-2024 18:56
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	30-May-2024 18:56
1,2,4-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 18:56
1,2-Dibromo-3-chloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 18:56
1,2-Dibromoethane	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 18:56
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	30-May-2024 18:56
1,2-Dichloroethane	**1.7**		**0.20**	**1.0**	**1.0**	**ug/L**	1	30-May-2024 18:56
1,2-Dichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	30-May-2024 18:56
1,3,5-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 18:56
1,3-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	30-May-2024 18:56
1,3-Dichloropropane	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 18:56
1,4-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	30-May-2024 18:56
2,2-Dichloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 18:56
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	30-May-2024 18:56
2-Chlorotoluene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 18:56
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	30-May-2024 18:56
4-Chlorotoluene	1.0	U	0.40	1.0	1.0	ug/L	1	30-May-2024 18:56
4-Isopropyltoluene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 18:56
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	30-May-2024 18:56
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	30-May-2024 18:56
Benzene	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 18:56
Bromobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	30-May-2024 18:56
Bromochloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 18:56
Bromodichloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 18:56
Bromoform	1.0	U	0.40	1.0	1.0	ug/L	1	30-May-2024 18:56
Bromomethane	1.0	U	0.40	1.0	1.0	ug/L	1	30-May-2024 18:56
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	30-May-2024 18:56
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	ug/L	1	30-May-2024 18:56
Chlorobenzene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 18:56
Chloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 18:56
Chloroform	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 18:56

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 10-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
Sample ID: 35AWW19_052324
Collection Date: 23-May-2024 07:40

ANALYTICAL REPORT
WorkOrder:HS24051535
Lab ID:HS24051535-01
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: TS
Chloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 18:56
cis-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 18:56
cis-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 18:56
Dibromochloromethane	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 18:56
Dibromomethane	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 18:56
Dichlorodifluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 18:56
Ethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 18:56
Hexachlorobutadiene	1.0	U	1.0	1.0	1.0	ug/L	1	30-May-2024 18:56
Isopropylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 18:56
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	30-May-2024 18:56
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	30-May-2024 18:56
n-Butylbenzene	1.0	U	0.40	1.0	1.0	ug/L	1	30-May-2024 18:56
n-Propylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 18:56
Naphthalene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 18:56
o-Xylene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 18:56
sec-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 18:56
Styrene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 18:56
tert-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 18:56
Tetrachloroethene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 18:56
Toluene	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 18:56
trans-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 18:56
trans-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 18:56
Trichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 18:56
Trichlorofluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 18:56
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 18:56
Surr: 1,2-Dichloroethane-d4	*118*			**0**	*81-118*	*%REC*	*1*	*30-May-2024 18:56*
Surr: 4-Bromofluorobenzene	*109*			**0**	*85-114*	*%REC*	*1*	*30-May-2024 18:56*
Surr: Dibromofluoromethane	*115*			**0**	*80-119*	*%REC*	*1*	*30-May-2024 18:56*
Surr: Toluene-d8	*111*			**0**	*89-112*	*%REC*	*1*	*30-May-2024 18:56*
DISSOLVED GASES BY RSK-175		**Method:RSK-175**						Analyst: RG
Ethane	**0.691**	J	**0.144**	**0.500**	**1.00**	**ug/L**	1	05-Jun-2024 14:52
Ethene	0.500	U	0.234	0.500	1.00	ug/L	1	05-Jun-2024 14:52
Methane	**1.15**		**0.107**	**0.500**	**0.500**	**ug/L**	1	05-Jun-2024 14:52
TOTAL ORGANIC CARBON BY E415.1		**Method:E415.1**						Analyst: JAC
Organic Carbon, Total	**9.02**		**0.500**	**1.00**	**1.00**	**mg/L**	1	08-Jun-2024 17:57
ANIONS BY SW9056A		**Method:SW9056**						Analyst: TH
Chloride	**391**		**2.00**	**2.50**	**5.00**	**mg/L**	10	24-May-2024 21:31
Nitrogen, Nitrate (As N)	0.0500	U	0.0300	0.0500	0.100	mg/L	1	24-May-2024 21:25
Sulfate	**436**		**2.00**	**2.50**	**5.00**	**mg/L**	10	24-May-2024 21:31

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 10-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
Sample ID: 35AWW19_052324
Collection Date: 23-May-2024 07:40

ANALYTICAL REPORT
WorkOrder:HS24051535
Lab ID:HS24051535-01
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
SUBCONTRACT ANALYSIS - DHC/DHB		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	03-Jun-2024 08:15
SUBCONTRACT ANALYSIS - RSK		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	04-Jun-2024 09:17

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 10-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
Sample ID: LHSMW07_052324
Collection Date: 23-May-2024 08:30

ANALYTICAL REPORT
WorkOrder:HS24051535
Lab ID:HS24051535-02
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
1,1,1,2-Tetrachloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 19:17
1,1,1-Trichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 19:17
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	30-May-2024 19:17
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 19:17
1,1-Dichloroethane	**14**		**0.20**	**1.0**	**1.0**	**ug/L**	1	30-May-2024 19:17
1,1-Dichloroethene	**99**		**0.20**	**1.0**	**1.0**	**ug/L**	1	30-May-2024 19:17
1,1-Dichloropropene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 19:17
1,2,3-Trichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	30-May-2024 19:17
1,2,3-Trichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	30-May-2024 19:17
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	30-May-2024 19:17
1,2,4-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 19:17
1,2-Dibromo-3-chloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 19:17
1,2-Dibromoethane	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 19:17
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	30-May-2024 19:17
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 19:17
1,2-Dichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	30-May-2024 19:17
1,3,5-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 19:17
1,3-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	30-May-2024 19:17
1,3-Dichloropropane	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 19:17
1,4-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	30-May-2024 19:17
2,2-Dichloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 19:17
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	30-May-2024 19:17
2-Chlorotoluene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 19:17
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	30-May-2024 19:17
4-Chlorotoluene	1.0	U	0.40	1.0	1.0	ug/L	1	30-May-2024 19:17
4-Isopropyltoluene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 19:17
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	30-May-2024 19:17
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	30-May-2024 19:17
Benzene	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 19:17
Bromobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	30-May-2024 19:17
Bromochloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 19:17
Bromodichloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 19:17
Bromoform	1.0	U	0.40	1.0	1.0	ug/L	1	30-May-2024 19:17
Bromomethane	1.0	U	0.40	1.0	1.0	ug/L	1	30-May-2024 19:17
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	30-May-2024 19:17
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	ug/L	1	30-May-2024 19:17
Chlorobenzene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 19:17
Chloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 19:17
Chloroform	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 19:17

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 10-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
Sample ID: LHSMW07_052324
Collection Date: 23-May-2024 08:30

ANALYTICAL REPORT
WorkOrder:HS24051535
Lab ID:HS24051535-02
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: TS
Chloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 19:17
cis-1,2-Dichloroethene	**1.1**		**0.20**	**1.0**	**1.0**	**ug/L**	1	30-May-2024 19:17
cis-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 19:17
Dibromochloromethane	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 19:17
Dibromomethane	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 19:17
Dichlorodifluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 19:17
Ethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 19:17
Hexachlorobutadiene	1.0	U	1.0	1.0	1.0	ug/L	1	30-May-2024 19:17
Isopropylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 19:17
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	30-May-2024 19:17
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	30-May-2024 19:17
n-Butylbenzene	1.0	U	0.40	1.0	1.0	ug/L	1	30-May-2024 19:17
n-Propylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 19:17
Naphthalene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 19:17
o-Xylene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 19:17
sec-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 19:17
Styrene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 19:17
tert-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 19:17
Tetrachloroethene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 19:17
Toluene	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 19:17
trans-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 19:17
trans-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 19:17
Trichloroethene	**2.0**		**0.20**	**1.0**	**1.0**	**ug/L**	1	30-May-2024 19:17
Trichlorofluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 19:17
Vinyl chloride	**47**		**0.20**	**1.0**	**1.0**	**ug/L**	1	30-May-2024 19:17
Surr: 1,2-Dichloroethane-d4	*117*			**0**	*81-118*	*%REC*	*1*	*30-May-2024 19:17*
Surr: 4-Bromofluorobenzene	*110*			**0**	*85-114*	*%REC*	*1*	*30-May-2024 19:17*
Surr: Dibromofluoromethane	*114*			**0**	*80-119*	*%REC*	*1*	*30-May-2024 19:17*
Surr: Toluene-d8	*111*			**0**	*89-112*	*%REC*	*1*	*30-May-2024 19:17*
DISSOLVED GASES BY RSK-175		**Method:RSK-175**						Analyst: RG
Ethane	**9.80**		**0.144**	**0.500**	**1.00**	**ug/L**	1	05-Jun-2024 15:01
Ethene	**15.5**		**0.234**	**0.500**	**1.00**	**ug/L**	1	05-Jun-2024 15:01
Methane	**1,490**		**5.35**	**25.0**	**25.0**	**ug/L**	50	05-Jun-2024 15:55
TOTAL ORGANIC CARBON BY E415.1		**Method:E415.1**						Analyst: JAC
Organic Carbon, Total	**12.4**		**0.500**	**1.00**	**1.00**	**mg/L**	1	08-Jun-2024 18:22
ANIONS BY SW9056A		**Method:SW9056**						Analyst: TH
Chloride	**2,110**		**10.0**	**12.5**	**25.0**	**mg/L**	50	24-May-2024 21:54
Nitrogen, Nitrate (As N)	0.100	U	0.0600	0.100	0.200	mg/L	2	24-May-2024 21:48
Sulfate	**3,520**		**10.0**	**12.5**	**25.0**	**mg/L**	50	24-May-2024 21:54

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 10-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
Sample ID: LHSMW07_052324
Collection Date: 23-May-2024 08:30

ANALYTICAL REPORT
WorkOrder:HS24051535
Lab ID:HS24051535-02
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
SUBCONTRACT ANALYSIS - DHC/DHB		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	03-Jun-2024 08:15
SUBCONTRACT ANALYSIS - RSK		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	04-Jun-2024 09:17

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 10-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
Sample ID: 35AWW20_052324
Collection Date: 23-May-2024 09:20

ANALYTICAL REPORT
WorkOrder:HS24051535
Lab ID:HS24051535-03
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
1,1,1,2-Tetrachloroethane	5.0	U	1.5	5.0	5.0	ug/L	5	30-May-2024 21:07
1,1,1-Trichloroethane	5.0	U	1.0	5.0	5.0	ug/L	5	30-May-2024 21:07
1,1,2,2-Tetrachloroethane	5.0	U	2.5	5.0	5.0	ug/L	5	30-May-2024 21:07
1,1,2-Trichloroethane	**56**		**1.5**	**5.0**	**5.0**	**ug/L**	5	30-May-2024 21:07
1,1-Dichloroethane	**390**		**1.0**	**5.0**	**5.0**	**ug/L**	5	30-May-2024 21:07
1,1-Dichloroethene	**1,100**		**5.0**	**25**	**25**	**ug/L**	25	06-Jun-2024 13:44
1,1-Dichloropropene	5.0	U	1.5	5.0	5.0	ug/L	5	30-May-2024 21:07
1,2,3-Trichlorobenzene	5.0	U	2.0	5.0	5.0	ug/L	5	30-May-2024 21:07
1,2,3-Trichloropropane	5.0	U	2.5	5.0	5.0	ug/L	5	30-May-2024 21:07
1,2,4-Trichlorobenzene	5.0	U	2.5	5.0	5.0	ug/L	5	30-May-2024 21:07
1,2,4-Trimethylbenzene	5.0	U	1.5	5.0	5.0	ug/L	5	30-May-2024 21:07
1,2-Dibromo-3-chloropropane	5.0	U	1.0	5.0	5.0	ug/L	5	30-May-2024 21:07
1,2-Dibromoethane	5.0	U	1.0	5.0	5.0	ug/L	5	30-May-2024 21:07
1,2-Dichlorobenzene	**26**		**2.5**	**5.0**	**5.0**	**ug/L**	5	30-May-2024 21:07
1,2-Dichloroethane	**15**		**1.0**	**5.0**	**5.0**	**ug/L**	5	30-May-2024 21:07
1,2-Dichloropropane	5.0	U	2.5	5.0	5.0	ug/L	5	30-May-2024 21:07
1,3,5-Trimethylbenzene	5.0	U	1.5	5.0	5.0	ug/L	5	30-May-2024 21:07
1,3-Dichlorobenzene	5.0	U	2.0	5.0	5.0	ug/L	5	30-May-2024 21:07
1,3-Dichloropropane	5.0	U	1.5	5.0	5.0	ug/L	5	30-May-2024 21:07
1,4-Dichlorobenzene	**4.4**	J	**2.0**	**5.0**	**5.0**	**ug/L**	5	30-May-2024 21:07
2,2-Dichloropropane	5.0	U	1.0	5.0	5.0	ug/L	5	30-May-2024 21:07
2-Butanone	5.0	U	2.5	5.0	10	ug/L	5	30-May-2024 21:07
2-Chlorotoluene	5.0	U	1.5	5.0	5.0	ug/L	5	30-May-2024 21:07
2-Hexanone	**19**		**5.0**	**5.0**	**10**	**ug/L**	5	30-May-2024 21:07
4-Chlorotoluene	5.0	U	2.0	5.0	5.0	ug/L	5	30-May-2024 21:07
4-Isopropyltoluene	5.0	U	1.5	5.0	5.0	ug/L	5	30-May-2024 21:07
4-Methyl-2-pentanone	5.0	U	3.5	5.0	10	ug/L	5	30-May-2024 21:07
Acetone	5.0	U	2.0	5.0	10	ug/L	5	30-May-2024 21:07
Benzene	**6.0**		**1.0**	**5.0**	**5.0**	**ug/L**	5	30-May-2024 21:07
Bromobenzene	5.0	U	2.0	5.0	5.0	ug/L	5	30-May-2024 21:07
Bromochloromethane	5.0	U	1.0	5.0	5.0	ug/L	5	30-May-2024 21:07
Bromodichloromethane	5.0	U	1.0	5.0	5.0	ug/L	5	30-May-2024 21:07
Bromoform	5.0	U	2.0	5.0	5.0	ug/L	5	30-May-2024 21:07
Bromomethane	5.0	U	2.0	5.0	5.0	ug/L	5	30-May-2024 21:07
Carbon disulfide	5.0	U	3.0	5.0	10	ug/L	5	30-May-2024 21:07
Carbon tetrachloride	5.0	U	2.5	5.0	5.0	ug/L	5	30-May-2024 21:07
Chlorobenzene	5.0	U	1.5	5.0	5.0	ug/L	5	30-May-2024 21:07
Chloroethane	5.0	U	1.5	5.0	5.0	ug/L	5	30-May-2024 21:07
Chloroform	5.0	U	1.0	5.0	5.0	ug/L	5	30-May-2024 21:07

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 10-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
Sample ID: 35AWW20_052324
Collection Date: 23-May-2024 09:20

ANALYTICAL REPORT
WorkOrder:HS24051535
Lab ID:HS24051535-03
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: TS
Chloromethane	5.0	U	1.0	5.0	5.0	ug/L	5	30-May-2024 21:07
cis-1,2-Dichloroethene	**73**		**1.0**	**5.0**	**5.0**	**ug/L**	5	30-May-2024 21:07
cis-1,3-Dichloropropene	5.0	U	1.0	5.0	5.0	ug/L	5	30-May-2024 21:07
Dibromochloromethane	5.0	U	1.5	5.0	5.0	ug/L	5	30-May-2024 21:07
Dibromomethane	5.0	U	1.0	5.0	5.0	ug/L	5	30-May-2024 21:07
Dichlorodifluoromethane	5.0	U	1.5	5.0	5.0	ug/L	5	30-May-2024 21:07
Ethylbenzene	5.0	U	1.5	5.0	5.0	ug/L	5	30-May-2024 21:07
Hexachlorobutadiene	5.0	U	5.0	5.0	5.0	ug/L	5	30-May-2024 21:07
Isopropylbenzene	5.0	U	1.5	5.0	5.0	ug/L	5	30-May-2024 21:07
m,p-Xylene	5.0	U	2.5	5.0	10	ug/L	5	30-May-2024 21:07
Methylene chloride	5.0	U	2.0	5.0	10	ug/L	5	30-May-2024 21:07
n-Butylbenzene	5.0	U	2.0	5.0	5.0	ug/L	5	30-May-2024 21:07
n-Propylbenzene	5.0	U	1.5	5.0	5.0	ug/L	5	30-May-2024 21:07
Naphthalene	5.0	U	1.5	5.0	5.0	ug/L	5	30-May-2024 21:07
o-Xylene	5.0	U	1.5	5.0	5.0	ug/L	5	30-May-2024 21:07
sec-Butylbenzene	5.0	U	1.5	5.0	5.0	ug/L	5	30-May-2024 21:07
Styrene	5.0	U	1.5	5.0	5.0	ug/L	5	30-May-2024 21:07
tert-Butylbenzene	5.0	U	1.5	5.0	5.0	ug/L	5	30-May-2024 21:07
Tetrachloroethene	5.0	U	1.5	5.0	5.0	ug/L	5	30-May-2024 21:07
Toluene	5.0	U	1.0	5.0	5.0	ug/L	5	30-May-2024 21:07
trans-1,2-Dichloroethene	**4.8**	J	**1.0**	**5.0**	**5.0**	**ug/L**	5	30-May-2024 21:07
trans-1,3-Dichloropropene	5.0	U	1.0	5.0	5.0	ug/L	5	30-May-2024 21:07
Trichloroethene	**130**		**1.0**	**5.0**	**5.0**	**ug/L**	5	30-May-2024 21:07
Trichlorofluoromethane	5.0	U	1.5	5.0	5.0	ug/L	5	30-May-2024 21:07
Vinyl chloride	**480**		**1.0**	**5.0**	**5.0**	**ug/L**	5	30-May-2024 21:07
Surr: 1,2-Dichloroethane-d4	*118*			**0**	*81-118*	*%REC*	*5*	*30-May-2024 21:07*
Surr: 1,2-Dichloroethane-d4	*109*			**0**	*81-118*	*%REC*	*25*	*06-Jun-2024 13:44*
Surr: 4-Bromofluorobenzene	*107*			**0**	*85-114*	*%REC*	*5*	*30-May-2024 21:07*
Surr: 4-Bromofluorobenzene	*104*			**0**	*85-114*	*%REC*	*25*	*06-Jun-2024 13:44*
Surr: Dibromofluoromethane	*114*			**0**	*80-119*	*%REC*	*5*	*30-May-2024 21:07*
Surr: Dibromofluoromethane	*102*			**0**	*80-119*	*%REC*	*25*	*06-Jun-2024 13:44*
Surr: Toluene-d8	*111*			**0**	*89-112*	*%REC*	*5*	*30-May-2024 21:07*
Surr: Toluene-d8	*108*			**0**	*89-112*	*%REC*	*25*	*06-Jun-2024 13:44*
DISSOLVED GASES BY RSK-175		**Method:RSK-175**						Analyst: RG
Ethane	0.500	U	0.144	0.500	1.00	ug/L	1	05-Jun-2024 15:10
Ethene	**6.89**		**0.234**	**0.500**	**1.00**	**ug/L**	1	05-Jun-2024 15:10
Methane	**473**		**2.14**	**10.0**	**10.0**	**ug/L**	20	05-Jun-2024 16:04
METALS BY ICPMS BY SW6020A		**Method:SW6020A**				Prep:SW3010A / 06-Jun-2024		Analyst: JC
Arsenic	**0.00275**	J	**0.000400**	**0.0100**	**0.00500**	**mg/L**	1	07-Jun-2024 11:58

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 10-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
Sample ID: 35AWW20_052324
Collection Date: 23-May-2024 09:20

ANALYTICAL REPORT
WorkOrder:HS24051535
Lab ID:HS24051535-03
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
TOTAL ORGANIC CARBON BY E415.1		**Method:E415.1**						Analyst: JAC
Organic Carbon, Total	**40.3**		**0.500**	**1.00**	**1.00**	**mg/L**	1	08-Jun-2024 18:35
ANIONS BY SW9056A		**Method:SW9056**						Analyst: TH
Chloride	**765**		**4.00**	**5.00**	**10.0**	**mg/L**	20	24-May-2024 22:29
Nitrogen, Nitrate (As N)	0.0500	U	0.0300	0.0500	0.100	mg/L	1	24-May-2024 22:24
Sulfate	**1,400**		**4.00**	**5.00**	**10.0**	**mg/L**	20	24-May-2024 22:29
SUBCONTRACT ANALYSIS - DHC/DHB		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	03-Jun-2024 08:15
SUBCONTRACT ANALYSIS - RSK		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	04-Jun-2024 09:17

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 10-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
Sample ID: 35AWW11_052324
Collection Date: 23-May-2024 10:10

ANALYTICAL REPORT
WorkOrder:HS24051535
Lab ID:HS24051535-04
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
1,1,1,2-Tetrachloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 19:39
1,1,1-Trichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 19:39
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	30-May-2024 19:39
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 19:39
1,1-Dichloroethane	**1.2**		**0.20**	**1.0**	**1.0**	**ug/L**	1	30-May-2024 19:39
1,1-Dichloroethene	**2.8**		**0.20**	**1.0**	**1.0**	**ug/L**	1	30-May-2024 19:39
1,1-Dichloropropene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 19:39
1,2,3-Trichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	30-May-2024 19:39
1,2,3-Trichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	30-May-2024 19:39
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	30-May-2024 19:39
1,2,4-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 19:39
1,2-Dibromo-3-chloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 19:39
1,2-Dibromoethane	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 19:39
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	30-May-2024 19:39
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 19:39
1,2-Dichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	30-May-2024 19:39
1,3,5-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 19:39
1,3-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	30-May-2024 19:39
1,3-Dichloropropane	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 19:39
1,4-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	30-May-2024 19:39
2,2-Dichloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 19:39
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	30-May-2024 19:39
2-Chlorotoluene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 19:39
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	30-May-2024 19:39
4-Chlorotoluene	1.0	U	0.40	1.0	1.0	ug/L	1	30-May-2024 19:39
4-Isopropyltoluene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 19:39
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	30-May-2024 19:39
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	30-May-2024 19:39
Benzene	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 19:39
Bromobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	30-May-2024 19:39
Bromochloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 19:39
Bromodichloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 19:39
Bromoform	1.0	U	0.40	1.0	1.0	ug/L	1	30-May-2024 19:39
Bromomethane	1.0	U	0.40	1.0	1.0	ug/L	1	30-May-2024 19:39
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	30-May-2024 19:39
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	ug/L	1	30-May-2024 19:39
Chlorobenzene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 19:39
Chloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 19:39
Chloroform	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 19:39

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 10-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
Sample ID: 35AWW11_052324
Collection Date: 23-May-2024 10:10

ANALYTICAL REPORT
WorkOrder:HS24051535
Lab ID:HS24051535-04
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: TS
Chloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 19:39
cis-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 19:39
cis-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 19:39
Dibromochloromethane	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 19:39
Dibromomethane	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 19:39
Dichlorodifluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 19:39
Ethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 19:39
Hexachlorobutadiene	1.0	U	1.0	1.0	1.0	ug/L	1	30-May-2024 19:39
Isopropylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 19:39
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	30-May-2024 19:39
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	30-May-2024 19:39
n-Butylbenzene	1.0	U	0.40	1.0	1.0	ug/L	1	30-May-2024 19:39
n-Propylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 19:39
Naphthalene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 19:39
o-Xylene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 19:39
sec-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 19:39
Styrene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 19:39
tert-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 19:39
Tetrachloroethene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 19:39
Toluene	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 19:39
trans-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 19:39
trans-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 19:39
Trichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 19:39
Trichlorofluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 19:39
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 19:39
Surr: 1,2-Dichloroethane-d4	*118*			**0**	*81-118*	*%REC*	*1*	*30-May-2024 19:39*
Surr: 4-Bromofluorobenzene	*107*			**0**	*85-114*	*%REC*	*1*	*30-May-2024 19:39*
Surr: Dibromofluoromethane	*114*			**0**	*80-119*	*%REC*	*1*	*30-May-2024 19:39*
Surr: Toluene-d8	*111*			**0**	*89-112*	*%REC*	*1*	*30-May-2024 19:39*
DISSOLVED GASES BY RSK-175		**Method:RSK-175**						Analyst: RG
Ethane	0.500	U	0.144	0.500	1.00	ug/L	1	05-Jun-2024 15:18
Ethene	0.500	U	0.234	0.500	1.00	ug/L	1	05-Jun-2024 15:18
Methane	**1,630**		**5.35**	**25.0**	**25.0**	**ug/L**	50	05-Jun-2024 16:16
TOTAL ORGANIC CARBON BY E415.1		**Method:E415.1**						Analyst: JAC
Organic Carbon, Total	**30.8**		**0.500**	**1.00**	**1.00**	**mg/L**	1	08-Jun-2024 18:48
ANIONS BY SW9056A		**Method:SW9056**						Analyst: TH
Chloride	**1,890**		**10.0**	**12.5**	**25.0**	**mg/L**	50	24-May-2024 22:41
Nitrogen, Nitrate (As N)	0.100	U	0.0600	0.100	0.200	mg/L	2	24-May-2024 22:35
Sulfate	**486**		**10.0**	**12.5**	**25.0**	**mg/L**	50	24-May-2024 22:41

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 10-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
Sample ID: 35AWW11_052324
Collection Date: 23-May-2024 10:10

ANALYTICAL REPORT
WorkOrder:HS24051535
Lab ID:HS24051535-04
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
SUBCONTRACT ANALYSIS - DHC/DHB		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	03-Jun-2024 08:15
SUBCONTRACT ANALYSIS - RSK		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	04-Jun-2024 09:17

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 10-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
Sample ID: 35AWW23_052324
Collection Date: 23-May-2024 11:00

ANALYTICAL REPORT
WorkOrder:HS24051535
Lab ID:HS24051535-05
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
1,1,1,2-Tetrachloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 20:00
1,1,1-Trichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 20:00
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	30-May-2024 20:00
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 20:00
1,1-Dichloroethane	**0.69**	J	**0.20**	**1.0**	**1.0**	**ug/L**	1	30-May-2024 20:00
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 20:00
1,1-Dichloropropene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 20:00
1,2,3-Trichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	30-May-2024 20:00
1,2,3-Trichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	30-May-2024 20:00
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	30-May-2024 20:00
1,2,4-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 20:00
1,2-Dibromo-3-chloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 20:00
1,2-Dibromoethane	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 20:00
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	30-May-2024 20:00
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 20:00
1,2-Dichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	30-May-2024 20:00
1,3,5-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 20:00
1,3-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	30-May-2024 20:00
1,3-Dichloropropane	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 20:00
1,4-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	30-May-2024 20:00
2,2-Dichloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 20:00
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	30-May-2024 20:00
2-Chlorotoluene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 20:00
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	30-May-2024 20:00
4-Chlorotoluene	1.0	U	0.40	1.0	1.0	ug/L	1	30-May-2024 20:00
4-Isopropyltoluene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 20:00
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	30-May-2024 20:00
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	30-May-2024 20:00
Benzene	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 20:00
Bromobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	30-May-2024 20:00
Bromochloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 20:00
Bromodichloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 20:00
Bromoform	1.0	U	0.40	1.0	1.0	ug/L	1	30-May-2024 20:00
Bromomethane	1.0	U	0.40	1.0	1.0	ug/L	1	30-May-2024 20:00
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	30-May-2024 20:00
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	ug/L	1	30-May-2024 20:00
Chlorobenzene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 20:00
Chloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 20:00
Chloroform	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 20:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 10-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
Sample ID: 35AWW23_052324
Collection Date: 23-May-2024 11:00

ANALYTICAL REPORT
WorkOrder:HS24051535
Lab ID:HS24051535-05
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: TS
Chloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 20:00
cis-1,2-Dichloroethene	**0.69**	J	**0.20**	**1.0**	**1.0**	**ug/L**	1	30-May-2024 20:00
cis-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 20:00
Dibromochloromethane	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 20:00
Dibromomethane	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 20:00
Dichlorodifluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 20:00
Ethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 20:00
Hexachlorobutadiene	1.0	U	1.0	1.0	1.0	ug/L	1	30-May-2024 20:00
Isopropylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 20:00
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	30-May-2024 20:00
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	30-May-2024 20:00
n-Butylbenzene	1.0	U	0.40	1.0	1.0	ug/L	1	30-May-2024 20:00
n-Propylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 20:00
Naphthalene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 20:00
o-Xylene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 20:00
sec-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 20:00
Styrene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 20:00
tert-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 20:00
Tetrachloroethene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 20:00
Toluene	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 20:00
trans-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 20:00
trans-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 20:00
Trichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 20:00
Trichlorofluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 20:00
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 20:00
Surr: 1,2-Dichloroethane-d4	*118*			**0**	*81-118*	*%REC*	*1*	*30-May-2024 20:00*
Surr: 4-Bromofluorobenzene	*107*			**0**	*85-114*	*%REC*	*1*	*30-May-2024 20:00*
Surr: Dibromofluoromethane	*114*			**0**	*80-119*	*%REC*	*1*	*30-May-2024 20:00*
Surr: Toluene-d8	*111*			**0**	*89-112*	*%REC*	*1*	*30-May-2024 20:00*
DISSOLVED GASES BY RSK-175		**Method:RSK-175**						Analyst: RG
Ethane	0.500	U	0.144	0.500	1.00	ug/L	1	05-Jun-2024 15:27
Ethene	0.500	U	0.234	0.500	1.00	ug/L	1	05-Jun-2024 15:27
Methane	**4,150**		**21.4**	**100**	**100**	**ug/L**	200	05-Jun-2024 16:27
TOTAL ORGANIC CARBON BY E415.1		**Method:E415.1**						Analyst: JAC
Organic Carbon, Total	**37.0**		**0.500**	**1.00**	**1.00**	**mg/L**	1	08-Jun-2024 19:01
ANIONS BY SW9056A		**Method:SW9056**						Analyst: TH
Chloride	**656**		**4.00**	**5.00**	**10.0**	**mg/L**	20	24-May-2024 22:53
Nitrogen, Nitrate (As N)	0.0500	U	0.0300	0.0500	0.100	mg/L	1	24-May-2024 22:47
Sulfate	**20.3**		**0.200**	**0.250**	**0.500**	**mg/L**	1	24-May-2024 22:47

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 10-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
Sample ID: 35AWW23_052324
Collection Date: 23-May-2024 11:00

ANALYTICAL REPORT
WorkOrder:HS24051535
Lab ID:HS24051535-05
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
SUBCONTRACT ANALYSIS - DHC/DHB		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	03-Jun-2024 08:15
SUBCONTRACT ANALYSIS - RSK		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	04-Jun-2024 09:17

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 10-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
Sample ID: 35AWW06_052324
Collection Date: 23-May-2024 11:50

ANALYTICAL REPORT
WorkOrder:HS24051535
Lab ID:HS24051535-06
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
1,1,1,2-Tetrachloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 20:22
1,1,1-Trichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 20:22
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	30-May-2024 20:22
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 20:22
1,1-Dichloroethane	**0.53**	J	**0.20**	**1.0**	**1.0**	**ug/L**	1	30-May-2024 20:22
1,1-Dichloroethene	**0.95**	J	**0.20**	**1.0**	**1.0**	**ug/L**	1	30-May-2024 20:22
1,1-Dichloropropene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 20:22
1,2,3-Trichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	30-May-2024 20:22
1,2,3-Trichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	30-May-2024 20:22
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	30-May-2024 20:22
1,2,4-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 20:22
1,2-Dibromo-3-chloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 20:22
1,2-Dibromoethane	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 20:22
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	30-May-2024 20:22
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 20:22
1,2-Dichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	30-May-2024 20:22
1,3,5-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 20:22
1,3-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	30-May-2024 20:22
1,3-Dichloropropane	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 20:22
1,4-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	30-May-2024 20:22
2,2-Dichloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 20:22
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	30-May-2024 20:22
2-Chlorotoluene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 20:22
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	30-May-2024 20:22
4-Chlorotoluene	1.0	U	0.40	1.0	1.0	ug/L	1	30-May-2024 20:22
4-Isopropyltoluene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 20:22
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	30-May-2024 20:22
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	30-May-2024 20:22
Benzene	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 20:22
Bromobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	30-May-2024 20:22
Bromochloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 20:22
Bromodichloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 20:22
Bromoform	1.0	U	0.40	1.0	1.0	ug/L	1	30-May-2024 20:22
Bromomethane	1.0	U	0.40	1.0	1.0	ug/L	1	30-May-2024 20:22
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	30-May-2024 20:22
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	ug/L	1	30-May-2024 20:22
Chlorobenzene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 20:22
Chloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 20:22
Chloroform	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 20:22

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 10-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
Sample ID: 35AWW06_052324
Collection Date: 23-May-2024 11:50

ANALYTICAL REPORT
WorkOrder:HS24051535
Lab ID:HS24051535-06
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: TS
Chloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 20:22
cis-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 20:22
cis-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 20:22
Dibromochloromethane	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 20:22
Dibromomethane	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 20:22
Dichlorodifluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 20:22
Ethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 20:22
Hexachlorobutadiene	1.0	U	1.0	1.0	1.0	ug/L	1	30-May-2024 20:22
Isopropylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 20:22
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	30-May-2024 20:22
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	30-May-2024 20:22
n-Butylbenzene	1.0	U	0.40	1.0	1.0	ug/L	1	30-May-2024 20:22
n-Propylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 20:22
Naphthalene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 20:22
o-Xylene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 20:22
sec-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 20:22
Styrene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 20:22
tert-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 20:22
Tetrachloroethene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 20:22
Toluene	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 20:22
trans-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 20:22
trans-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 20:22
Trichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 20:22
Trichlorofluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 20:22
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 20:22
Surr: 1,2-Dichloroethane-d4	*118*			**0**	*81-118*	*%REC*	*1*	*30-May-2024 20:22*
Surr: 4-Bromofluorobenzene	*109*			**0**	*85-114*	*%REC*	*1*	*30-May-2024 20:22*
Surr: Dibromofluoromethane	*115*			**0**	*80-119*	*%REC*	*1*	*30-May-2024 20:22*
Surr: Toluene-d8	*111*			**0**	*89-112*	*%REC*	*1*	*30-May-2024 20:22*
DISSOLVED GASES BY RSK-175		**Method:RSK-175**						Analyst: RG
Ethane	0.500	U	0.144	0.500	1.00	ug/L	1	05-Jun-2024 15:35
Ethene	0.500	U	0.234	0.500	1.00	ug/L	1	05-Jun-2024 15:35
Methane	**1,830**		**5.35**	**25.0**	**25.0**	**ug/L**	50	05-Jun-2024 16:36
TOTAL ORGANIC CARBON BY E415.1		**Method:E415.1**						Analyst: JAC
Organic Carbon, Total	**13.0**		**0.500**	**1.00**	**1.00**	**mg/L**	1	08-Jun-2024 19:13
ANIONS BY SW9056A		**Method:SW9056**						Analyst: TH
Chloride	**846**		**4.00**	**5.00**	**10.0**	**mg/L**	20	24-May-2024 23:04
Nitrogen, Nitrate (As N)	0.0500	U	0.0300	0.0500	0.100	mg/L	1	24-May-2024 22:59
Sulfate	**1,020**		**4.00**	**5.00**	**10.0**	**mg/L**	20	24-May-2024 23:04

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 10-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
Sample ID: 35AWW06_052324
Collection Date: 23-May-2024 11:50

ANALYTICAL REPORT
WorkOrder:HS24051535
Lab ID:HS24051535-06
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
SUBCONTRACT ANALYSIS - DHC/DHB		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	03-Jun-2024 08:15
SUBCONTRACT ANALYSIS - RSK		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	04-Jun-2024 09:17

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 10-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
Sample ID: 35AWW18_052324
Collection Date: 23-May-2024 12:40

ANALYTICAL REPORT
WorkOrder:HS24051535
Lab ID:HS24051535-07
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
1,1,1,2-Tetrachloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 20:43
1,1,1-Trichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 20:43
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	30-May-2024 20:43
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 20:43
1,1-Dichloroethane	**4.9**		**0.20**	**1.0**	**1.0**	**ug/L**	1	30-May-2024 20:43
1,1-Dichloroethene	**22**		**0.20**	**1.0**	**1.0**	**ug/L**	1	30-May-2024 20:43
1,1-Dichloropropene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 20:43
1,2,3-Trichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	30-May-2024 20:43
1,2,3-Trichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	30-May-2024 20:43
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	30-May-2024 20:43
1,2,4-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 20:43
1,2-Dibromo-3-chloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 20:43
1,2-Dibromoethane	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 20:43
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	30-May-2024 20:43
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 20:43
1,2-Dichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	30-May-2024 20:43
1,3,5-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 20:43
1,3-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	30-May-2024 20:43
1,3-Dichloropropane	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 20:43
1,4-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	30-May-2024 20:43
2,2-Dichloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 20:43
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	30-May-2024 20:43
2-Chlorotoluene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 20:43
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	30-May-2024 20:43
4-Chlorotoluene	1.0	U	0.40	1.0	1.0	ug/L	1	30-May-2024 20:43
4-Isopropyltoluene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 20:43
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	30-May-2024 20:43
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	30-May-2024 20:43
Benzene	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 20:43
Bromobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	30-May-2024 20:43
Bromochloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 20:43
Bromodichloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 20:43
Bromoform	1.0	U	0.40	1.0	1.0	ug/L	1	30-May-2024 20:43
Bromomethane	1.0	U	0.40	1.0	1.0	ug/L	1	30-May-2024 20:43
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	30-May-2024 20:43
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	ug/L	1	30-May-2024 20:43
Chlorobenzene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 20:43
Chloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 20:43
Chloroform	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 20:43

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 10-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
Sample ID: 35AWW18_052324
Collection Date: 23-May-2024 12:40

ANALYTICAL REPORT
WorkOrder:HS24051535
Lab ID:HS24051535-07
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
Chloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 20:43
cis-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 20:43
cis-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 20:43
Dibromochloromethane	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 20:43
Dibromomethane	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 20:43
Dichlorodifluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 20:43
Ethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 20:43
Hexachlorobutadiene	1.0	U	1.0	1.0	1.0	ug/L	1	30-May-2024 20:43
Isopropylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 20:43
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	30-May-2024 20:43
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	30-May-2024 20:43
n-Butylbenzene	1.0	U	0.40	1.0	1.0	ug/L	1	30-May-2024 20:43
n-Propylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 20:43
Naphthalene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 20:43
o-Xylene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 20:43
sec-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 20:43
Styrene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 20:43
tert-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 20:43
Tetrachloroethene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 20:43
Toluene	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 20:43
trans-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 20:43
trans-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 20:43
Trichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 20:43
Trichlorofluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 20:43
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 20:43
Surr: 1,2-Dichloroethane-d4	*118*			**0**	*81-118*	*%REC*	*1*	*30-May-2024 20:43*
Surr: 4-Bromofluorobenzene	*109*			**0**	*85-114*	*%REC*	*1*	*30-May-2024 20:43*
Surr: Dibromofluoromethane	*116*			**0**	*80-119*	*%REC*	*1*	*30-May-2024 20:43*
Surr: Toluene-d8	*111*			**0**	*89-112*	*%REC*	*1*	*30-May-2024 20:43*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 10-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
Sample ID: Trip Blank
Collection Date: 23-May-2024 00:00

ANALYTICAL REPORT
WorkOrder:HS24051535
Lab ID:HS24051535-08
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
1,1,1,2-Tetrachloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 17:08
1,1,1-Trichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 17:08
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	30-May-2024 17:08
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 17:08
1,1-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 17:08
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 17:08
1,1-Dichloropropene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 17:08
1,2,3-Trichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	30-May-2024 17:08
1,2,3-Trichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	30-May-2024 17:08
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	30-May-2024 17:08
1,2,4-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 17:08
1,2-Dibromo-3-chloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 17:08
1,2-Dibromoethane	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 17:08
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	30-May-2024 17:08
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 17:08
1,2-Dichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	30-May-2024 17:08
1,3,5-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 17:08
1,3-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	30-May-2024 17:08
1,3-Dichloropropane	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 17:08
1,4-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	30-May-2024 17:08
2,2-Dichloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 17:08
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	30-May-2024 17:08
2-Chlorotoluene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 17:08
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	30-May-2024 17:08
4-Chlorotoluene	1.0	U	0.40	1.0	1.0	ug/L	1	30-May-2024 17:08
4-Isopropyltoluene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 17:08
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	30-May-2024 17:08
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	30-May-2024 17:08
Benzene	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 17:08
Bromobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	30-May-2024 17:08
Bromochloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 17:08
Bromodichloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 17:08
Bromoform	1.0	U	0.40	1.0	1.0	ug/L	1	30-May-2024 17:08
Bromomethane	1.0	U	0.40	1.0	1.0	ug/L	1	30-May-2024 17:08
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	30-May-2024 17:08
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	ug/L	1	30-May-2024 17:08
Chlorobenzene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 17:08
Chloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 17:08
Chloroform	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 17:08

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 10-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
Sample ID: Trip Blank
Collection Date: 23-May-2024 00:00

ANALYTICAL REPORT
WorkOrder:HS24051535
Lab ID:HS24051535-08
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
Chloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 17:08
cis-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 17:08
cis-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 17:08
Dibromochloromethane	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 17:08
Dibromomethane	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 17:08
Dichlorodifluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 17:08
Ethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 17:08
Hexachlorobutadiene	1.0	U	1.0	1.0	1.0	ug/L	1	30-May-2024 17:08
Isopropylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 17:08
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	30-May-2024 17:08
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	30-May-2024 17:08
n-Butylbenzene	1.0	U	0.40	1.0	1.0	ug/L	1	30-May-2024 17:08
n-Propylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 17:08
Naphthalene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 17:08
o-Xylene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 17:08
sec-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 17:08
Styrene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 17:08
tert-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 17:08
Tetrachloroethene	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 17:08
Toluene	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 17:08
trans-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 17:08
trans-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 17:08
Trichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 17:08
Trichlorofluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	30-May-2024 17:08
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	30-May-2024 17:08
Surr: 1,2-Dichloroethane-d4	*117*			**0**	*81-118*	*%REC*	*1*	*30-May-2024 17:08*
Surr: 4-Bromofluorobenzene	*111*			**0**	*85-114*	*%REC*	*1*	*30-May-2024 17:08*
Surr: Dibromofluoromethane	*113*			**0**	*80-119*	*%REC*	*1*	*30-May-2024 17:08*
Surr: Toluene-d8	*111*			**0**	*89-112*	*%REC*	*1*	*30-May-2024 17:08*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Weight / Prep Log

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS24051535

Batch ID: 213120 **Start Date:** 06 Jun 2024 12:30 **End Date:** 06 Jun 2024 12:30
Method: WATER - SW3010A **Prep Code:** 3010A

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24051535-03		10 (mL)	10 (mL)	1	120 plastic HNO3

ALS Houston, US Date: 10-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS24051535

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 213120 (0)	**Test Name :** METALS BY ICPMS BY SW6020A				**Matrix:** Groundwater	
HS24051535-03	35AWW20_052324	23 May 2024 09:20		06 Jun 2024 12:30	07 Jun 2024 11:58	1
Batch ID: R467693 (0)	**Test Name :** ANIONS BY SW9056A				**Matrix:** Groundwater	
HS24051535-01	35AWW19_052324	23 May 2024 07:40			24 May 2024 21:31	10
HS24051535-01	35AWW19_052324	23 May 2024 07:40			24 May 2024 21:25	1
HS24051535-02	LHSMW07_052324	23 May 2024 08:30			24 May 2024 21:54	50
HS24051535-02	LHSMW07_052324	23 May 2024 08:30			24 May 2024 21:48	2
HS24051535-03	35AWW20_052324	23 May 2024 09:20			24 May 2024 22:29	20
HS24051535-03	35AWW20_052324	23 May 2024 09:20			24 May 2024 22:24	1
HS24051535-04	35AWW11_052324	23 May 2024 10:10			24 May 2024 22:41	50
HS24051535-04	35AWW11_052324	23 May 2024 10:10			24 May 2024 22:35	2
HS24051535-05	35AWW23_052324	23 May 2024 11:00			24 May 2024 22:53	20
HS24051535-05	35AWW23_052324	23 May 2024 11:00			24 May 2024 22:47	1
HS24051535-06	35AWW06_052324	23 May 2024 11:50			24 May 2024 23:04	20
HS24051535-06	35AWW06_052324	23 May 2024 11:50			24 May 2024 22:59	1
Batch ID: R468115 (0)	**Test Name :** VOLATILES ORGANICS BY METHOD 8260C				**Matrix:** Water	
HS24051535-08	Trip Blank	23 May 2024 00:00			30 May 2024 17:08	1
Batch ID: R468115 (0)	**Test Name :** VOLATILES ORGANICS BY METHOD 8260C				**Matrix:** Groundwater	
HS24051535-01	35AWW19_052324	23 May 2024 07:40			30 May 2024 18:56	1
HS24051535-02	LHSMW07_052324	23 May 2024 08:30			30 May 2024 19:17	1
HS24051535-03	35AWW20_052324	23 May 2024 09:20			30 May 2024 21:07	5
HS24051535-04	35AWW11_052324	23 May 2024 10:10			30 May 2024 19:39	1
HS24051535-05	35AWW23_052324	23 May 2024 11:00			30 May 2024 20:00	1
HS24051535-06	35AWW06_052324	23 May 2024 11:50			30 May 2024 20:22	1
HS24051535-07	35AWW18_052324	23 May 2024 12:40			30 May 2024 20:43	1
Batch ID: R468276 (0)	**Test Name :** SUBCONTRACT ANALYSIS - DHC/DHB				**Matrix:** Groundwater	
HS24051535-01	35AWW19_052324	23 May 2024 07:40			03 Jun 2024 08:15	1
HS24051535-02	LHSMW07_052324	23 May 2024 08:30			03 Jun 2024 08:15	1
HS24051535-03	35AWW20_052324	23 May 2024 09:20			03 Jun 2024 08:15	1
HS24051535-04	35AWW11_052324	23 May 2024 10:10			03 Jun 2024 08:15	1
HS24051535-05	35AWW23_052324	23 May 2024 11:00			03 Jun 2024 08:15	1
HS24051535-06	35AWW06_052324	23 May 2024 11:50			03 Jun 2024 08:15	1

ALS Houston, US Date: 10-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS24051535

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R468370 (0)	**Test Name :** SUBCONTRACT ANALYSIS - RSK				**Matrix:** Groundwater	
HS24051535-01	35AWW19_052324	23 May 2024 07:40			04 Jun 2024 09:17	1
HS24051535-02	LHSMW07_052324	23 May 2024 08:30			04 Jun 2024 09:17	1
HS24051535-03	35AWW20_052324	23 May 2024 09:20			04 Jun 2024 09:17	1
HS24051535-04	35AWW11_052324	23 May 2024 10:10			04 Jun 2024 09:17	1
HS24051535-05	35AWW23_052324	23 May 2024 11:00			04 Jun 2024 09:17	1
HS24051535-06	35AWW06_052324	23 May 2024 11:50			04 Jun 2024 09:17	1
Batch ID: R468585 (0)	**Test Name :** DISSOLVED GASES BY RSK-175				**Matrix:** Groundwater	
HS24051535-01	35AWW19_052324	23 May 2024 07:40			05 Jun 2024 14:52	1
HS24051535-02	LHSMW07_052324	23 May 2024 08:30			05 Jun 2024 15:55	50
HS24051535-02	LHSMW07_052324	23 May 2024 08:30			05 Jun 2024 15:01	1
HS24051535-03	35AWW20_052324	23 May 2024 09:20			05 Jun 2024 16:04	20
HS24051535-03	35AWW20_052324	23 May 2024 09:20			05 Jun 2024 15:10	1
HS24051535-04	35AWW11_052324	23 May 2024 10:10			05 Jun 2024 16:16	50
HS24051535-04	35AWW11_052324	23 May 2024 10:10			05 Jun 2024 15:18	1
HS24051535-05	35AWW23_052324	23 May 2024 11:00			05 Jun 2024 16:27	200
HS24051535-05	35AWW23_052324	23 May 2024 11:00			05 Jun 2024 15:27	1
HS24051535-06	35AWW06_052324	23 May 2024 11:50			05 Jun 2024 16:36	50
HS24051535-06	35AWW06_052324	23 May 2024 11:50			05 Jun 2024 15:35	1
Batch ID: R468713 (0)	**Test Name :** VOLATILES ORGANICS BY METHOD 8260C				**Matrix:** Groundwater	
HS24051535-03	35AWW20_052324	23 May 2024 09:20			06 Jun 2024 13:44	25
Batch ID: R468951 (0)	**Test Name :** TOTAL ORGANIC CARBON BY E415.1				**Matrix:** Groundwater	
HS24051535-01	35AWW19_052324	23 May 2024 07:40			08 Jun 2024 17:57	1
HS24051535-02	LHSMW07_052324	23 May 2024 08:30			08 Jun 2024 18:22	1
HS24051535-03	35AWW20_052324	23 May 2024 09:20			08 Jun 2024 18:35	1
HS24051535-04	35AWW11_052324	23 May 2024 10:10			08 Jun 2024 18:48	1
HS24051535-05	35AWW23_052324	23 May 2024 11:00			08 Jun 2024 19:01	1
HS24051535-06	35AWW06_052324	23 May 2024 11:50			08 Jun 2024 19:13	1

ALS Houston, US Date: 10-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS24051535

QC BATCH REPORT

Batch ID: R468585 (0) **Instrument: FID-4** **Method: DISSOLVED GASES BY RSK-175**

MBLK Sample ID: **MBLK-240605** Units: **ug/L** Analysis Date: **05-Jun-2024 12:11**
Client ID: Run ID: **FID-4_468585** SeqNo: **8048932** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	0.500	1.00								U
Ethene	0.500	1.00								U
Methane	0.500	0.500								U

LCS Sample ID: **LCS-240605** Units: **ug/L** Analysis Date: **05-Jun-2024 12:21**
Client ID: Run ID: **FID-4_468585** SeqNo: **8048933** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	15.38	1.00	18.04	0	85.3	74 - 131				
Ethene	15.64	1.00	16.8	0	93.1	72 - 133				
Methane	8.602	0.500	9.647	0	89.2	73 - 125				

LCSD Sample ID: **LCSD-240605** Units: **ug/L** Analysis Date: **05-Jun-2024 12:36**
Client ID: Run ID: **FID-4_468585** SeqNo: **8048934** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	15.71	1.00	18.04	0	87.1	74 - 131	15.38	2.13	30	
Ethene	16.3	1.00	16.8	0	97.0	72 - 133	15.64	4.09	30	
Methane	9.064	0.500	9.647	0	94.0	73 - 125	8.602	5.23	30	

The following samples were analyzed in this batch: HS24051535-01 HS24051535-02 HS24051535-03 HS24051535-04 HS24051535-05 HS24051535-06

ALS Houston, US Date: 10-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS24051535

QC BATCH REPORT

Batch ID: 213120 (0) **Instrument: ICPMS07** **Method: METALS BY ICPMS BY SW6020A**

MBLK Sample ID: **MBLK-213120** Units: **mg/L** Analysis Date: **07-Jun-2024 11:41**
Client ID: Run ID: **ICPMS07_468784** SeqNo: **8053605** PrepDate: **06-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.0100	0.00500								U

LCS Sample ID: **LCS-213120** Units: **mg/L** Analysis Date: **07-Jun-2024 11:43**
Client ID: Run ID: **ICPMS07_468784** SeqNo: **8053606** PrepDate: **06-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.04841	0.00500	0.05	0	96.8	84 - 116				

MS Sample ID: **HS24052045-03MS** Units: **mg/L** Analysis Date: **07-Jun-2024 11:51**
Client ID: Run ID: **ICPMS07_468784** SeqNo: **8053609** PrepDate: **06-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.04828	0.00500	0.05	0.000778	95.0	84 - 116				

MSD Sample ID: **HS24052045-03MSD** Units: **mg/L** Analysis Date: **07-Jun-2024 11:53**
Client ID: Run ID: **ICPMS07_468784** SeqNo: **8053610** PrepDate: **06-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.04861	0.00500	0.05	0.000778	95.7	84 - 116	0.04828	0.683	20	

PDS Sample ID: **HS24052045-03PDS** Units: **mg/L** Analysis Date: **07-Jun-2024 11:56**
Client ID: Run ID: **ICPMS07_468784** SeqNo: **8053611** PrepDate: **06-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.09788	0.00500	0.1	0.000778	97.1	80 - 120				

SD Sample ID: **HS24052045-03SD** Units: **mg/L** Analysis Date: **07-Jun-2024 11:46**
Client ID: Run ID: **ICPMS07_468784** SeqNo: **8053607** PrepDate: **06-Jun-2024** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Arsenic	0.0500	0.0250					0.000778	0	10	U

The following samples were analyzed in this batch: HS24051535-03

ALS Houston, US Date: 10-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS24051535

QC BATCH REPORT

Batch ID: R468115 (0) **Instrument: VOA9** **Method: VOLATILES ORGANICS BY METHOD 8260C**

MBLK Sample ID: **VBLKW-240530** Units: **ug/L** Analysis Date: **30-May-2024 16:25**
Client ID: Run ID: **VOA9_468115** SeqNo: **8040018** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	1.0	1.0								U
1,1,1-Trichloroethane	1.0	1.0								U
1,1,2,2-Tetrachloroethane	1.0	1.0								U
1,1,2-Trichloroethane	1.0	1.0								U
1,1-Dichloroethane	1.0	1.0								U
1,1-Dichloroethene	1.0	1.0								U
1,1-Dichloropropene	1.0	1.0								U
1,2,3-Trichlorobenzene	1.0	1.0								U
1,2,3-Trichloropropane	1.0	1.0								U
1,2,4-Trichlorobenzene	1.0	1.0								U
1,2,4-Trimethylbenzene	1.0	1.0								U
1,2-Dibromo-3-chloropropane	1.0	1.0								U
1,2-Dibromoethane	1.0	1.0								U
1,2-Dichlorobenzene	1.0	1.0								U
1,2-Dichloroethane	1.0	1.0								U
1,2-Dichloropropane	1.0	1.0								U
1,3,5-Trimethylbenzene	1.0	1.0								U
1,3-Dichlorobenzene	1.0	1.0								U
1,3-Dichloropropane	1.0	1.0								U
1,4-Dichlorobenzene	1.0	1.0								U
2,2-Dichloropropane	1.0	1.0								U
2-Butanone	1.0	2.0								U
2-Chlorotoluene	1.0	1.0								U
2-Hexanone	1.0	2.0								U
4-Chlorotoluene	1.0	1.0								U
4-Isopropyltoluene	1.0	1.0								U
4-Methyl-2-pentanone	1.0	2.0								U
Acetone	1.0	2.0								U
Benzene	1.0	1.0								U
Bromobenzene	1.0	1.0								U
Bromochloromethane	1.0	1.0								U
Bromodichloromethane	1.0	1.0								U
Bromoform	1.0	1.0								U
Bromomethane	1.0	1.0								U

ALS Houston, US Date: 10-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS24051535

QC BATCH REPORT

Batch ID: R468115 (0) **Instrument: VOA9** **Method: VOLATILES ORGANICS BY METHOD 8260C**

MBLK Sample ID: **VBLKW-240530** Units: **ug/L** Analysis Date: **30-May-2024 16:25**
Client ID: Run ID: **VOA9_468115** SeqNo: **8040018** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	1.0	2.0								U
Carbon tetrachloride	1.0	1.0								U
Chlorobenzene	1.0	1.0								U
Chloroethane	1.0	1.0								U
Chloroform	1.0	1.0								U
Chloromethane	1.0	1.0								U
cis-1,2-Dichloroethene	1.0	1.0								U
cis-1,3-Dichloropropene	1.0	1.0								U
Dibromochloromethane	1.0	1.0								U
Dibromomethane	1.0	1.0								U
Dichlorodifluoromethane	1.0	1.0								U
Ethylbenzene	1.0	1.0								U
Hexachlorobutadiene	1.0	1.0								U
Isopropylbenzene	1.0	1.0								U
m,p-Xylene	1.0	2.0								U
Methylene chloride	1.0	2.0								U
Naphthalene	1.0	1.0								U
n-Butylbenzene	1.0	1.0								U
n-Propylbenzene	1.0	1.0								U
o-Xylene	1.0	1.0								U
sec-Butylbenzene	1.0	1.0								U
Styrene	1.0	1.0								U
tert-Butylbenzene	1.0	1.0								U
Tetrachloroethene	1.0	1.0								U
Toluene	1.0	1.0								U
trans-1,2-Dichloroethene	1.0	1.0								U
trans-1,3-Dichloropropene	1.0	1.0								U
Trichloroethene	1.0	1.0								U
Trichlorofluoromethane	1.0	1.0								U
Vinyl chloride	1.0	1.0								U
Surr: 1,2-Dichloroethane-d4	*58.14*	*35*	*50*	*0*	*116*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*56.36*	*35*	*50*	*0*	*113*	*85 - 114*				
Surr: Dibromofluoromethane	*55.81*	*35*	*50*	*0*	*112*	*80 - 119*				
Surr: Toluene-d8	*55.97*	*35*	*50*	*0*	*112*	*89 - 112*				

ALS Houston, US Date: 10-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS24051535

QC BATCH REPORT

Batch ID: R468115 (0) **Instrument: VOA9** **Method: VOLATILES ORGANICS BY METHOD 8260C**

LCS Sample ID: **VLCSW-240530** Units: **ug/L** Analysis Date: **30-May-2024 15:19**
Client ID: Run ID: **VOA9_468115** SeqNo: **8040017** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	18.08	1.0	20	0	90.4	78 - 124				
1,1,1-Trichloroethane	20.1	1.0	20	0	101	74 - 131				
1,1,2,2-Tetrachloroethane	18.31	1.0	20	0	91.5	71 - 121				
1,1,2-Trichloroethane	19.46	1.0	20	0	97.3	80 - 119				
1,1-Dichloroethane	17.98	1.0	20	0	89.9	77 - 125				
1,1-Dichloroethene	18.85	1.0	20	0	94.2	71 - 131				
1,1-Dichloropropene	19.28	1.0	20	0	96.4	78 - 125				
1,2,3-Trichlorobenzene	18.82	1.0	20	0	94.1	69 - 129				
1,2,3-Trichloropropane	17.62	1.0	20	0	88.1	73 - 122				
1,2,4-Trichlorobenzene	18.4	1.0	20	0	92.0	69 - 130				
1,2,4-Trimethylbenzene	18.1	1.0	20	0	90.5	76 - 124				
1,2-Dibromo-3-chloropropane	17.6	1.0	20	0	88.0	62 - 128				
1,2-Dibromoethane	18.53	1.0	20	0	92.7	77 - 121				
1,2-Dichlorobenzene	18.51	1.0	20	0	92.5	80 - 119				
1,2-Dichloroethane	19.87	1.0	20	0	99.3	73 - 128				
1,2-Dichloropropane	18.31	1.0	20	0	91.6	78 - 122				
1,3,5-Trimethylbenzene	19.28	1.0	20	0	96.4	75 - 124				
1,3-Dichlorobenzene	18.78	1.0	20	0	93.9	80 - 119				
1,3-Dichloropropane	17.96	1.0	20	0	89.8	80 - 119				
1,4-Dichlorobenzene	17.85	1.0	20	0	89.3	79 - 118				
2,2-Dichloropropane	19.26	1.0	20	0	96.3	60 - 139				
2-Butanone	37.31	2.0	40	0	93.3	56 - 143				
2-Chlorotoluene	20.22	1.0	20	0	101	79 - 122				
2-Hexanone	41.34	2.0	40	0	103	57 - 139				
4-Chlorotoluene	18.92	1.0	20	0	94.6	78 - 122				
4-Isopropyltoluene	19.82	1.0	20	0	99.1	77 - 127				
4-Methyl-2-pentanone	37.81	2.0	40	0	94.5	67 - 130				
Acetone	45.96	2.0	40	0	115	39 - 160				
Benzene	18.88	1.0	20	0	94.4	79 - 120				
Bromobenzene	18.26	1.0	20	0	91.3	80 - 120				
Bromochloromethane	19.57	1.0	20	0	97.9	78 - 123				
Bromodichloromethane	17.49	1.0	20	0	87.4	79 - 125				
Bromoform	16.09	1.0	20	0	80.5	66 - 130				
Bromomethane	19.96	1.0	20	0	99.8	53 - 141				

ALS Houston, US Date: 10-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS24051535

QC BATCH REPORT

Batch ID: R468115 (0) **Instrument: VOA9** **Method: VOLATILES ORGANICS BY METHOD 8260C**

LCS Sample ID: **VLCSW-240530** Units: **ug/L** Analysis Date: **30-May-2024 15:19**
Client ID: Run ID: **VOA9_468115** SeqNo: **8040017** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	37.46	2.0	40	0	93.7	64 - 133				
Carbon tetrachloride	18.53	1.0	20	0	92.7	72 - 136				
Chlorobenzene	17.91	1.0	20	0	89.5	82 - 118				
Chloroethane	21.45	1.0	20	0	107	60 - 138				
Chloroform	18.32	1.0	20	0	91.6	79 - 124				
Chloromethane	22.01	1.0	20	0	110	50 - 139				
cis-1,2-Dichloroethene	17.96	1.0	20	0	89.8	78 - 123				
cis-1,3-Dichloropropene	18.17	1.0	20	0	90.8	75 - 124				
Dibromochloromethane	17.18	1.0	20	0	85.9	74 - 126				
Dibromomethane	18.34	1.0	20	0	91.7	79 - 123				
Dichlorodifluoromethane	21.42	1.0	20	0	107	32 - 152				
Ethylbenzene	19.73	1.0	20	0	98.6	79 - 121				
Hexachlorobutadiene	19.39	1.0	20	0	96.9	66 - 134				
Isopropylbenzene	19.42	1.0	20	0	97.1	72 - 131				
m,p-Xylene	37.61	2.0	40	0	94.0	80 - 121				
Methylene chloride	19.82	2.0	20	0	99.1	74 - 124				
Naphthalene	19.07	1.0	20	0	95.3	61 - 128				
n-Butylbenzene	19.73	1.0	20	0	98.7	75 - 128				
n-Propylbenzene	19.17	1.0	20	0	95.9	76 - 126				
o-Xylene	18.8	1.0	20	0	94.0	78 - 122				
sec-Butylbenzene	19.89	1.0	20	0	99.5	77 - 126				
Styrene	18.71	1.0	20	0	93.6	78 - 123				
tert-Butylbenzene	19.96	1.0	20	0	99.8	78 - 124				
Tetrachloroethene	19.75	1.0	20	0	98.7	74 - 129				
Toluene	17.63	1.0	20	0	88.1	80 - 121				
trans-1,2-Dichloroethene	18.26	1.0	20	0	91.3	75 - 124				
trans-1,3-Dichloropropene	18.02	1.0	20	0	90.1	73 - 127				
Trichloroethene	18.26	1.0	20	0	91.3	79 - 123				
Trichlorofluoromethane	20.81	1.0	20	0	104	65 - 141				
Vinyl chloride	20.37	1.0	20	0	102	58 - 137				
Surr: 1,2-Dichloroethane-d4	*55.45*	*35*	*50*	*0*	*111*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*56.26*	*35*	*50*	*0*	*113*	*85 - 114*				
Surr: Dibromofluoromethane	*56.83*	*35*	*50*	*0*	*114*	*80 - 119*				
Surr: Toluene-d8	*55.47*	*35*	*50*	*0*	*111*	*89 - 112*				

ALS Houston, US Date: 10-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS24051535

QC BATCH REPORT

Batch ID: R468115 (0) **Instrument: VOA9** **Method: VOLATILES ORGANICS BY METHOD 8260C**

MS Sample ID: **HS24051490-05MS** Units: **ug/L** Analysis Date: **31-May-2024 00:04**
Client ID: Run ID: **VOA9_468115** SeqNo: **8040034** PrepDate: DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	172	10	200	0	86.0	78 - 124				
1,1,1-Trichloroethane	197.6	10	200	0	98.8	74 - 131				
1,1,2,2-Tetrachloroethane	154.6	10	200	0	77.3	71 - 121				
1,1,2-Trichloroethane	180.3	10	200	0	90.1	80 - 119				
1,1-Dichloroethane	178.2	10	200	0	89.1	77 - 125				
1,1-Dichloroethene	193.9	10	200	17.9	88.0	71 - 131				
1,1-Dichloropropene	178.9	10	200	0	89.5	78 - 125				
1,2,3-Trichlorobenzene	154.3	10	200	0	77.1	69 - 129				
1,2,3-Trichloropropane	153	10	200	0	76.5	73 - 122				
1,2,4-Trichlorobenzene	155.5	10	200	0	77.8	69 - 130				
1,2,4-Trimethylbenzene	161.6	10	200	0	80.8	76 - 124				
1,2-Dibromo-3-chloropropane	137	10	200	0	68.5	62 - 128				
1,2-Dibromoethane	157.1	10	200	0	78.5	77 - 121				
1,2-Dichlorobenzene	164.5	10	200	0	82.3	80 - 119				
1,2-Dichloroethane	200.6	10	200	13.52	93.5	73 - 128				
1,2-Dichloropropane	177.5	10	200	0	88.7	78 - 122				
1,3,5-Trimethylbenzene	183.6	10	200	0	91.8	75 - 124				
1,3-Dichlorobenzene	171.5	10	200	0	85.8	80 - 119				
1,3-Dichloropropane	166.9	10	200	0	83.4	80 - 119				
1,4-Dichlorobenzene	164.7	10	200	0	82.3	79 - 118				
2,2-Dichloropropane	156.6	10	200	0	78.3	60 - 139				
2-Butanone	325.2	20	400	0	81.3	56 - 143				
2-Chlorotoluene	191.7	10	200	0	95.8	79 - 122				
2-Hexanone	340.3	20	400	0	85.1	57 - 139				
4-Chlorotoluene	176.9	10	200	0	88.5	78 - 122				
4-Isopropyltoluene	186.4	10	200	0	93.2	77 - 127				
4-Methyl-2-pentanone	345.5	20	400	0	86.4	67 - 130				
Acetone	308.1	20	400	0	77.0	39 - 160				
Benzene	174.9	10	200	0	87.5	79 - 120				
Bromobenzene	167.6	10	200	0	83.8	80 - 120				
Bromochloromethane	179.6	10	200	0	89.8	78 - 123				
Bromodichloromethane	174.4	10	200	0	87.2	79 - 125				
Bromoform	146.5	10	200	0	73.3	66 - 130				
Bromomethane	183	10	200	0	91.5	53 - 141				

ALS Houston, US Date: 10-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS24051535

QC BATCH REPORT

Batch ID: R468115 (0) **Instrument: VOA9** **Method: VOLATILES ORGANICS BY METHOD 8260C**

MS Sample ID: **HS24051490-05MS** Units: **ug/L** Analysis Date: **31-May-2024 00:04**
Client ID: Run ID: **VOA9_468115** SeqNo: **8040034** PrepDate: DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	375.1	20	400	0	93.8	64 - 133				
Carbon tetrachloride	190.1	10	200	0	95.0	72 - 136				
Chlorobenzene	172.7	10	200	0	86.4	82 - 118				
Chloroethane	224	10	200	0	112	60 - 138				
Chloroform	180.2	10	200	0	90.1	79 - 124				
Chloromethane	258.1	10	200	0	129	50 - 139				
cis-1,2-Dichloroethene	167.7	10	200	0	83.8	78 - 123				
cis-1,3-Dichloropropene	154.2	10	200	0	77.1	75 - 124				
Dibromochloromethane	159.2	10	200	0	79.6	74 - 126				
Dibromomethane	169.8	10	200	0	84.9	79 - 123				
Dichlorodifluoromethane	246.6	10	200	0	123	32 - 152				
Ethylbenzene	192.7	10	200	0	96.3	79 - 121				
Hexachlorobutadiene	177.4	10	200	0	88.7	66 - 134				
Isopropylbenzene	194.6	10	200	0	97.3	72 - 131				
m,p-Xylene	359.6	20	400	0	89.9	80 - 121				
Methylene chloride	184.9	20	200	0	92.4	74 - 124				
Naphthalene	141.4	10	200	0	70.7	61 - 128				
n-Butylbenzene	185.2	10	200	0	92.6	75 - 128				
n-Propylbenzene	181.7	10	200	0	90.8	76 - 126				
o-Xylene	183.4	10	200	0	91.7	78 - 122				
sec-Butylbenzene	190.7	10	200	0	95.3	77 - 126				
Styrene	185.7	10	200	0	92.8	78 - 123				
tert-Butylbenzene	195.3	10	200	0	97.6	78 - 124				
Tetrachloroethene	196	10	200	0	98.0	74 - 129				
Toluene	173.7	10	200	0	86.8	80 - 121				
trans-1,2-Dichloroethene	178.8	10	200	0	89.4	75 - 124				
trans-1,3-Dichloropropene	152.8	10	200	0	76.4	73 - 127				
Trichloroethene	1232	10	200	1067	82.4	79 - 123				O
Trichlorofluoromethane	229.7	10	200	0	115	65 - 141				
Vinyl chloride	222.7	10	200	0	111	58 - 137				
Surr: 1,2-Dichloroethane-d4	*581.7*	*350*	*500*	*0*	*116*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*586*	*350*	*500*	*0*	*117*	*85 - 114*				S
Surr: Dibromofluoromethane	*580*	*350*	*500*	*0*	*116*	*80 - 119*				
Surr: Toluene-d8	*575.4*	*350*	*500*	*0*	*115*	*89 - 112*				S

ALS Houston, US Date: 10-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS24051535

QC BATCH REPORT

Batch ID: R468115 (0) **Instrument: VOA9** **Method: VOLATILES ORGANICS BY METHOD 8260C**

MSD Sample ID: **HS24051490-05MSD** Units: **ug/L** Analysis Date: **31-May-2024 00:26**
Client ID: Run ID: **VOA9_468115** SeqNo: **8040035** PrepDate: DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	167.4	10	200	0	83.7	78 - 124	172	2.73	20	
1,1,1-Trichloroethane	192.4	10	200	0	96.2	74 - 131	197.6	2.69	20	
1,1,2,2-Tetrachloroethane	153.1	10	200	0	76.5	71 - 121	154.6	0.989	20	
1,1,2-Trichloroethane	178.5	10	200	0	89.3	80 - 119	180.3	0.987	20	
1,1-Dichloroethane	176.4	10	200	0	88.2	77 - 125	178.2	0.974	20	
1,1-Dichloroethene	191.1	10	200	17.9	86.6	71 - 131	193.9	1.48	20	
1,1-Dichloropropene	180.3	10	200	0	90.1	78 - 125	178.9	0.741	20	
1,2,3-Trichlorobenzene	156	10	200	0	78.0	69 - 129	154.3	1.13	20	
1,2,3-Trichloropropane	155.1	10	200	0	77.5	73 - 122	153	1.32	20	
1,2,4-Trichlorobenzene	153.2	10	200	0	76.6	69 - 130	155.5	1.49	20	
1,2,4-Trimethylbenzene	160.8	10	200	0	80.4	76 - 124	161.6	0.519	20	
1,2-Dibromo-3-chloropropane	126.9	10	200	0	63.5	62 - 128	137	7.64	20	
1,2-Dibromoethane	156.3	10	200	0	78.2	77 - 121	157.1	0.46	20	
1,2-Dichlorobenzene	163.2	10	200	0	81.6	80 - 119	164.5	0.835	20	
1,2-Dichloroethane	192.4	10	200	13.52	89.4	73 - 128	200.6	4.17	20	
1,2-Dichloropropane	169.1	10	200	0	84.6	78 - 122	177.5	4.82	20	
1,3,5-Trimethylbenzene	180.5	10	200	0	90.2	75 - 124	183.6	1.74	20	
1,3-Dichlorobenzene	169.7	10	200	0	84.8	80 - 119	171.5	1.1	20	
1,3-Dichloropropane	165.8	10	200	0	82.9	80 - 119	166.9	0.638	20	
1,4-Dichlorobenzene	162.1	10	200	0	81.1	79 - 118	164.7	1.56	20	
2,2-Dichloropropane	148.6	10	200	0	74.3	60 - 139	156.6	5.2	20	
2-Butanone	316.7	20	400	0	79.2	56 - 143	325.2	2.65	20	
2-Chlorotoluene	189	10	200	0	94.5	79 - 122	191.7	1.42	20	
2-Hexanone	337.6	20	400	0	84.4	57 - 139	340.3	0.778	20	
4-Chlorotoluene	173.2	10	200	0	86.6	78 - 122	176.9	2.11	20	
4-Isopropyltoluene	184	10	200	0	92.0	77 - 127	186.4	1.28	20	
4-Methyl-2-pentanone	343.2	20	400	0	85.8	67 - 130	345.5	0.684	20	
Acetone	333.7	20	400	0	83.4	39 - 160	308.1	8	20	
Benzene	167.4	10	200	0	83.7	79 - 120	174.9	4.38	20	
Bromobenzene	162.8	10	200	0	81.4	80 - 120	167.6	2.9	20	
Bromochloromethane	174	10	200	0	87.0	78 - 123	179.6	3.17	20	
Bromodichloromethane	169.1	10	200	0	84.5	79 - 125	174.4	3.09	20	
Bromoform	146.4	10	200	0	73.2	66 - 130	146.5	0.0593	20	
Bromomethane	178	10	200	0	89.0	53 - 141	183	2.76	20	

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS24051535

QC BATCH REPORT

Batch ID: R468115 (0) **Instrument: VOA9** **Method: VOLATILES ORGANICS BY METHOD 8260C**

MSD Sample ID: **HS24051490-05MSD** Units: **ug/L** Analysis Date: **31-May-2024 00:26**
Client ID: Run ID: **VOA9_468115** SeqNo: **8040035** PrepDate: DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Carbon disulfide	362.9	20	400	0	90.7	64 - 133	375.1	3.3	20	
Carbon tetrachloride	183.1	10	200	0	91.6	72 - 136	190.1	3.74	20	
Chlorobenzene	168	10	200	0	84.0	82 - 118	172.7	2.75	20	
Chloroethane	216.7	10	200	0	108	60 - 138	224	3.32	20	
Chloroform	175.7	10	200	0	87.9	79 - 124	180.2	2.48	20	
Chloromethane	245.8	10	200	0	123	50 - 139	258.1	4.86	20	
cis-1,2-Dichloroethene	163.4	10	200	0	81.7	78 - 123	167.7	2.59	20	
cis-1,3-Dichloropropene	151.5	10	200	0	75.7	75 - 124	154.2	1.77	20	
Dibromochloromethane	155	10	200	0	77.5	74 - 126	159.2	2.68	20	
Dibromomethane	170.9	10	200	0	85.4	79 - 123	169.8	0.632	20	
Dichlorodifluoromethane	239.1	10	200	0	120	32 - 152	246.6	3.11	20	
Ethylbenzene	183.3	10	200	0	91.6	79 - 121	192.7	4.99	20	
Hexachlorobutadiene	175.2	10	200	0	87.6	66 - 134	177.4	1.22	20	
Isopropylbenzene	187.5	10	200	0	93.8	72 - 131	194.6	3.67	20	
m,p-Xylene	354.3	20	400	0	88.6	80 - 121	359.6	1.46	20	
Methylene chloride	182.4	20	200	0	91.2	74 - 124	184.9	1.32	20	
Naphthalene	145.3	10	200	0	72.6	61 - 128	141.4	2.66	20	
n-Butylbenzene	181.2	10	200	0	90.6	75 - 128	185.2	2.18	20	
n-Propylbenzene	177.6	10	200	0	88.8	76 - 126	181.7	2.3	20	
o-Xylene	180.1	10	200	0	90.0	78 - 122	183.4	1.83	20	
sec-Butylbenzene	186.9	10	200	0	93.4	77 - 126	190.7	2.02	20	
Styrene	181.3	10	200	0	90.6	78 - 123	185.7	2.4	20	
tert-Butylbenzene	196.2	10	200	0	98.1	78 - 124	195.3	0.457	20	
Tetrachloroethene	188.5	10	200	0	94.2	74 - 129	196	3.93	20	
Toluene	166.2	10	200	0	83.1	80 - 121	173.7	4.4	20	
trans-1,2-Dichloroethene	174.4	10	200	0	87.2	75 - 124	178.8	2.46	20	
trans-1,3-Dichloropropene	151.2	10	200	0	75.6	73 - 127	152.8	1.08	20	
Trichloroethene	1172	10	200	1067	52.5	79 - 123	1232	4.97	20	SO
Trichlorofluoromethane	222.3	10	200	0	111	65 - 141	229.7	3.27	20	
Vinyl chloride	213.9	10	200	0	107	58 - 137	222.7	4	20	
Surr: 1,2-Dichloroethane-d4	*582.1*	*350*	*500*	*0*	*116*	*81 - 118*	*581.7*	*0.0697*	*20*	
Surr: 4-Bromofluorobenzene	*592.7*	*350*	*500*	*0*	*119*	*85 - 114*	*586*	*1.13*	*20*	S
Surr: Dibromofluoromethane	*578.8*	*350*	*500*	*0*	*116*	*80 - 119*	*580*	*0.213*	*20*	
Surr: Toluene-d8	*579.6*	*350*	*500*	*0*	*116*	*89 - 112*	*575.4*	*0.725*	*20*	S

ALS Houston, US Date: 10-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS24051535

QC BATCH REPORT

Batch ID: R468115 (0)	Instrument: VOA9	Method: VOLATILES ORGANICS BY METHOD 8260C

The following samples were analyzed in this batch:				
	HS24051535-01	HS24051535-02	HS24051535-03	HS24051535-04
	HS24051535-05	HS24051535-06	HS24051535-07	HS24051535-08

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS24051535

QC BATCH REPORT

Batch ID: R468713 (0) **Instrument: VOA9** **Method: VOLATILES ORGANICS BY METHOD 8260C**

MBLK Sample ID: **VBLKW-240606** Units: **ug/L** Analysis Date: **06-Jun-2024 12:16**
Client ID: Run ID: **VOA9_468713** SeqNo: **8051733** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	1.0	1.0								U
Surr: 1,2-Dichloroethane-d4	*53.89*	*35*	*50*	*0*	*108*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*52.12*	*35*	*50*	*0*	*104*	*85 - 114*				
Surr: Dibromofluoromethane	*50.98*	*35*	*50*	*0*	*102*	*80 - 119*				
Surr: Toluene-d8	*54.25*	*35*	*50*	*0*	*108*	*89 - 112*				

LCS Sample ID: **VLCSW-240606** Units: **ug/L** Analysis Date: **06-Jun-2024 11:12**
Client ID: Run ID: **VOA9_468713** SeqNo: **8051731** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	19.5	1.0	20	0	97.5	71 - 131				
Surr: 1,2-Dichloroethane-d4	*52.45*	*35*	*50*	*0*	*105*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*55.8*	*35*	*50*	*0*	*112*	*85 - 114*				
Surr: Dibromofluoromethane	*52.92*	*35*	*50*	*0*	*106*	*80 - 119*				
Surr: Toluene-d8	*54.56*	*35*	*50*	*0*	*109*	*89 - 112*				

LCSD Sample ID: **VLCSDW-240606** Units: **ug/L** Analysis Date: **06-Jun-2024 11:33**
Client ID: Run ID: **VOA9_468713** SeqNo: **8051732** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	17.45	1.0	20	0	87.2	71 - 131	19.5	11.1	20	
Surr: 1,2-Dichloroethane-d4	*51.3*	*35*	*50*	*0*	*103*	*81 - 118*	*52.45*	*2.21*	*20*	
Surr: 4-Bromofluorobenzene	*55.46*	*35*	*50*	*0*	*111*	*85 - 114*	*55.8*	*0.622*	*20*	
Surr: Dibromofluoromethane	*50.86*	*35*	*50*	*0*	*102*	*80 - 119*	*52.92*	*3.97*	*20*	
Surr: Toluene-d8	*54.49*	*35*	*50*	*0*	*109*	*89 - 112*	*54.56*	*0.125*	*20*	

ALS Houston, US Date: 10-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS24051535

QC BATCH REPORT

Batch ID: R468713 (0) **Instrument: VOA9** **Method: VOLATILES ORGANICS BY METHOD 8260C**

MS Sample ID: **HS24051959-07MS** Units: **ug/L** Analysis Date: **06-Jun-2024 12:59**
Client ID: Run ID: **VOA9_468713** SeqNo: **8051735** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	21.23	1.0	20	3.558	88.4	71 - 131				
Surr: 1,2-Dichloroethane-d4	*53.03*	*35*	*50*	*0*	*106*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*55.38*	*35*	*50*	*0*	*111*	*85 - 114*				
Surr: Dibromofluoromethane	*51.79*	*35*	*50*	*0*	*104*	*80 - 119*				
Surr: Toluene-d8	*54.39*	*35*	*50*	*0*	*109*	*89 - 112*				

MSD Sample ID: **HS24051959-07MSD** Units: **ug/L** Analysis Date: **06-Jun-2024 13:20**
Client ID: Run ID: **VOA9_468713** SeqNo: **8051736** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	20.22	1.0	20	3.558	83.3	71 - 131	21.23	4.87	20	
Surr: 1,2-Dichloroethane-d4	*52.56*	*35*	*50*	*0*	*105*	*81 - 118*	*53.03*	*0.88*	*20*	
Surr: 4-Bromofluorobenzene	*56.46*	*35*	*50*	*0*	*113*	*85 - 114*	*55.38*	*1.93*	*20*	
Surr: Dibromofluoromethane	*51.79*	*35*	*50*	*0*	*104*	*80 - 119*	*51.79*	*0*	*20*	
Surr: Toluene-d8	*54.73*	*35*	*50*	*0*	*109*	*89 - 112*	*54.39*	*0.621*	*20*	

The following samples were analyzed in this batch: HS24051535-03

ALS Houston, US Date: 10-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS24051535

QC BATCH REPORT

Batch ID: R467693 (0) **Instrument: ICS-Integrion** **Method: ANIONS BY SW9056A**

MBLK Sample ID: **MBLK** Units: **mg/L** Analysis Date: **24-May-2024 21:13**
Client ID: Run ID: **ICS-Integrion_467693** SeqNo: **8029946** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	0.250	0.500								U
Nitrogen, Nitrate (As N)	0.0500	0.100								U
Nitrogen, Nitrite (As N)	0.0500	0.100								U
Sulfate	0.250	0.500								U

LCS Sample ID: **LCS** Units: **mg/L** Analysis Date: **24-May-2024 21:19**
Client ID: Run ID: **ICS-Integrion_467693** SeqNo: **8029947** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	21.06	0.500	20	0	105	80 - 120				
Nitrogen, Nitrate (As N)	4.225	0.100	4	0	106	80 - 120				
Nitrogen, Nitrite (As N)	4.24	0.100	4	0	106	80 - 120				
Sulfate	20.94	0.500	20	0	105	80 - 120				

MS Sample ID: **HS24051535-01MS** Units: **mg/L** Analysis Date: **24-May-2024 21:37**
Client ID: **35AWW19_052324** Run ID: **ICS-Integrion_467693** SeqNo: **8029950** PrepDate: DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	472.6	5.00	100	390.9	81.7	80 - 120				
Nitrogen, Nitrate (As N)	19.66	1.00	20	0	98.3	80 - 120				
Nitrogen, Nitrite (As N)	18.7	1.00	20	0	93.5	80 - 120				
Sulfate	487.4	5.00	100	435.7	51.7	80 - 120				SO

MSD Sample ID: **HS24051535-01MSD** Units: **mg/L** Analysis Date: **24-May-2024 21:42**
Client ID: **35AWW19_052324** Run ID: **ICS-Integrion_467693** SeqNo: **8029951** PrepDate: DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	472.5	5.00	100	390.9	81.6	80 - 120	472.6	0.0169	20	
Nitrogen, Nitrate (As N)	19.72	1.00	20	0	98.6	80 - 120	19.66	0.315	20	
Nitrogen, Nitrite (As N)	18.76	1.00	20	0	93.8	80 - 120	18.7	0.315	20	
Sulfate	488	5.00	100	435.7	52.3	80 - 120	487.4	0.114	20	SO

The following samples were analyzed in this batch: HS24051535-01 HS24051535-02 HS24051535-03 HS24051535-04 HS24051535-05 HS24051535-06

ALS Houston, US Date: 10-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS24051535

QC BATCH REPORT

Batch ID: R468951 (0) **Instrument: TOC_05** **Method: TOTAL ORGANIC CARBON BY E415.1**

MBLK Sample ID: **MBLK-06082024** Units: **mg/L** Analysis Date: **08-Jun-2024 17:19**
Client ID: Run ID: **TOC_05_468951** SeqNo: **8056950** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	1.00	1.00								U

LCS Sample ID: **LCS-06082024** Units: **mg/L** Analysis Date: **08-Jun-2024 17:32**
Client ID: Run ID: **TOC_05_468951** SeqNo: **8056951** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	9.895	1.00	10	0	99.0	85 - 115				

LCSD Sample ID: **LCSD-06082024** Units: **mg/L** Analysis Date: **08-Jun-2024 17:45**
Client ID: Run ID: **TOC_05_468951** SeqNo: **8056952** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	9.85	1.00	10	0	98.5	85 - 115	9.895	0.456	20	

MS Sample ID: **HS24051535-01MS** Units: **mg/L** Analysis Date: **08-Jun-2024 18:10**
Client ID: **35AWW19_052324** Run ID: **TOC_05_468951** SeqNo: **8056954** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	13.39	1.00	10	9.023	43.7	80 - 120				S

The following samples were analyzed in this batch: HS24051535-01 HS24051535-02 HS24051535-03 HS24051535-04 HS24051535-05 HS24051535-06

ALS Houston, US Date: 10-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: **HS24051535**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
mg/L	Milligrams per Liter

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	88-00356_2024	27-Mar-2025
California	2919; 2025	30-Apr-2025
Florida	E87611-38	30-Jun-2024
Illinois	2000322023-11	30-Jun-2024
Kansas	E-10352 2023-2024	31-Jul-2024
Kentucky	123043	30-Apr-2025
Louisiana	03087 2023-2024	30-Jun-2024
Maryland	343; 2023-2024	30-Jun-2024
North Carolina	624 - 2024	31-Dec-2024
Oklahoma	2023-140	31-Aug-2024
Tennessee	04016	30-Apr-2025
Texas	T104704231 TX-C24-00130	30-Apr-2025
Utah	TX026932023-14	31-Jul-2024

ALS Houston, US Date: 10-Jun-24

Sample Receipt Checklist

Work Order ID: HS24051535 **Date/Time Received:** 24-May-2024 09:50

Client Name: Bhate Environmental **Received by:** Si Ma

Completed By: /S/ Sonia West (eSignature) 24-May-2024 15:36 (Date/Time) **Reviewed by:** /S/ Alexis Dorenbosch (eSignature) 28-May-2024 14:41 (Date/Time)

Matrices: **Water** Carrier name: **FedEx**

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	1 Page(s)
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	COC IDs:NA
Samplers name present on COC?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	

Temperature(s)/Thermometer(s):	0.9uc/1.0c	31
Cooler(s)/Kit(s):	49931	
Date/Time sample(s) sent to storage:	5/24/2024 12:00	

Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☑	N/A ☐
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

bhate

Page: 01336214

Project/Phase

No: JVPCIBH.0001

1608 13th Avenue South, Suite 300
Birmingham Alabama 35205

COC Number(1):

LIMS Number: HS2405 1535

Chain of Custody and Analytical Request

Facility/Base I.D.: LHAAP

Project/Site Name: LHAAP / Site 58

Client Name:

Collected by: Scott Beesinger

Field Sample ID (30 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOC	Dissolved Gases	TOC	Carbon Dioxide	Anions	Arsenic	Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
35AWW19_052324	23 may 2024	0740	-	N		WG	11	X	X	X	X	X					
LHSMW07_052324	23 May 2024	0830	-	N		WG	11	X	X	X	X	X					
35AWW08_052324	23 may 2024	0920	-	N		WG	12	X	X	X	X	X	X				
35AWW11_052324	23 may 2024	1010		N		WG	11	X	X	X	X	X					
35AWW23_052324	23 may 2024	1100		N		WG	11	X	X	X	X	X					
35AWW06_052324	23 may 2024	1150	-	N		WG	11	X	X	X	X	X					
35AWW18_052324	23 may 2024	1240	-	N		WG	3	X									
TRIP BLANK	23 may 2024		-	TB		WG	2	X									
			-														
			-														
			-														

Sample Analysis Requested (5) | Quality Assurance Samples (6)

HS24051535

Bhate Environmental Associates, Inc.
LHAAP-58

COMMENTS: STANDARD TAT

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. Scott Beesinger	5/23/24	1430	1.		
2.			2. GM	05/24/24	07:50
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: _____ Shipped _____ No.:

_____ Method of Shipment: _____

_____ Fed Ex _____ Airbill Number:

_____ Analytical Lab: ALS 10450 Stancliff Rd. Suite 210 Houston, TX 77099 (281) 530-5656

ATTN: Dana Wagaley Lab Recipient: Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

cooler # 4010391 Temp 4°C 1.8 3124391 CP-10.1

ALS
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

CUSTODY SEAL

Date: 5/23/24 Time: 1430
Name: Scott Beesiner
Company: Pathfx

Seal Broken By: AD
Date: 5/24/24

Must Deliver Next Business Day
Time and Tempature Sensitive!

ORIGIN ID:SGRA (903) 930-6193
SCOTT BEESINER
BHATE ENVIRONMENTAL ASSOCIATES
1203-B EAST GRAND AVE. PMB202
MARSHALL, TX 75670
UNITED STATES US

SHIP DATE: 14MAY24
ACTWGT: 1.00 LB MAN
CAD: 0221247/CAFE3755
DIMS: 26x14x14 IN

TO SAMPLE RECEIVING
ALS GROUP USA,CORP
10450 STANCLIFF ROAD
HOUSTON TX 77099
(281) 530-5656
REF: LHAAP-58=BO 100945-LA
RMA:

FedEx
FRI - 24 MAY AA
PRIORITY OVERNIGHT
TRK# 6862 6805 6408
AB SGRA
77099
TX-US
IAH

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Jumoke Lawal
ALS Group USA, Corp
10450 Stancliff Rd.
Suite 210
Houston TX 77099

Generated 06/05/2024

JOB DESCRIPTION

HS24051535

JOB NUMBER

410-174036-1

Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster PA 17601

See page two for job notes and contact information.

myEOL

Eurofins Lancaster Laboratories Environment Testing, LLC

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
06/05/2024

Authorized for release by
Nicole Brown, Project Manager
Nicole.Brown@et.eurofinsus.com
Designee for
Dana Kauffman, Project Manager
Dana.Kauffman@et.eurofinsus.com
717 556-7219

Eurofins Lancaster Laboratories Environment Testing, LLC

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

This report shall not be reproduced except in full, without the written approval of the laboratory.

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Qualifiers

GC VOA

Qualifier	Qualifier Description
D	The reported value is from a dilution.
M	Manual integrated compound.
U	Undetected at the Limit of Detection.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
410-174036-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 5/31/2024 10:15 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.7°C.

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: ALS Group USA, Corp
Project/Site: HS24051535

Job ID: 410-174036-1

Client Sample ID: 35AWW19_052324 — Lab Sample ID: 410-174036-1

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Carbon dioxide	250000	M	12000	11000	5600	ug/L	1		RSK-175	Total/NA

Client Sample ID: LHSMW07_052324 — Lab Sample ID: 410-174036-2

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Carbon dioxide	140000		12000	11000	5600	ug/L	1		RSK-175	Total/NA

Client Sample ID: 35AWW20_052324 — Lab Sample ID: 410-174036-3

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Carbon dioxide	800000	D	120000	110000	56000	ug/L	10		RSK-175	Total/NA

Client Sample ID: 35AWW11_052324 — Lab Sample ID: 410-174036-4

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Carbon dioxide	810000	D	120000	110000	56000	ug/L	10		RSK-175	Total/NA

Client Sample ID: 35AWW23_052324 — Lab Sample ID: 410-174036-5

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Carbon dioxide	230000	M	12000	11000	5600	ug/L	1		RSK-175	Total/NA

Client Sample ID: 35AWW06_052324 — Lab Sample ID: 410-174036-6

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Carbon dioxide	59000		12000	11000	5600	ug/L	1		RSK-175	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 35AWW19_052324
Lab Sample ID: 410-174036-1

Date Collected: 05/23/24 07:40
Matrix: Water
Date Received: 05/31/24 10:15

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Carbon dioxide	250000	M	12000	11000	5600	ug/L		06/03/24 11:00	1

Client Sample ID: LHSMW07_052324
Lab Sample ID: 410-174036-2

Date Collected: 05/23/24 08:30
Matrix: Water
Date Received: 05/31/24 10:15

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Carbon dioxide	140000		12000	11000	5600	ug/L		06/03/24 11:07	1

Client Sample ID: 35AWW20_052324
Lab Sample ID: 410-174036-3

Date Collected: 05/23/24 09:20
Matrix: Water
Date Received: 05/31/24 10:15

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Carbon dioxide	800000	D	120000	110000	56000	ug/L		06/04/24 12:21	10

Client Sample ID: 35AWW11_052324
Lab Sample ID: 410-174036-4

Date Collected: 05/23/24 10:10
Matrix: Water
Date Received: 05/31/24 10:15

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Carbon dioxide	810000	D	120000	110000	56000	ug/L		06/04/24 12:29	10

Client Sample ID: 35AWW23_052324
Lab Sample ID: 410-174036-5

Date Collected: 05/23/24 11:00
Matrix: Water
Date Received: 05/31/24 10:15

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Carbon dioxide	230000	M	12000	11000	5600	ug/L		06/03/24 11:31	1

Client Sample ID: 35AWW06_052324
Lab Sample ID: 410-174036-6

Date Collected: 05/23/24 11:50
Matrix: Water
Date Received: 05/31/24 10:15

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Carbon dioxide	59000		12000	11000	5600	ug/L		06/03/24 11:39	1

Default Detection Limits

Client: ALS Group USA, Corp
Project/Site: HS24051535

Job ID: 410-174036-1

Method: RSK-175 - Dissolved Gases (GC)

Prep: RSK-175

Analyte	LOQ	DL	Units
Carbon dioxide	12000	5600	ug/L

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 410-512911/1-A
Matrix: Water
Analysis Batch: 512895

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 512911

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Carbon dioxide	5600	U	12000	11000	5600	ug/L		06/03/24 10:18	1

Lab Sample ID: LCS 410-512911/2-A
Matrix: Water
Analysis Batch: 512895

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 512911

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Carbon dioxide			35800	38800		ug/L		108	80 - 122		

Lab Sample ID: MB 410-513397/1-A
Matrix: Water
Analysis Batch: 513353

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 513397

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Carbon dioxide	5600	U	12000	11000	5600	ug/L		06/04/24 10:27	1

Lab Sample ID: LCS 410-513397/2-A
Matrix: Water
Analysis Batch: 513353

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 513397

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Carbon dioxide			35800	39600		ug/L		111	80 - 122		

Lab Sample ID: LCSD 410-513397/3-A
Matrix: Water
Analysis Batch: 513353

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 513397

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon dioxide			35800	40200		ug/L		112	80 - 122	1	20

GC VOA

Analysis Batch: 512895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-174036-1	35AWW19_052324	Total/NA	Water	RSK-175	512911
410-174036-2	LHSMW07_052324	Total/NA	Water	RSK-175	512911
410-174036-5	35AWW23_052324	Total/NA	Water	RSK-175	512911
410-174036-6	35AWW06_052324	Total/NA	Water	RSK-175	512911
MB 410-512911/1-A	Method Blank	Total/NA	Water	RSK-175	512911
LCS 410-512911/2-A	Lab Control Sample	Total/NA	Water	RSK-175	512911

Prep Batch: 512911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-174036-1	35AWW19_052324	Total/NA	Water	RSK-175	
410-174036-2	LHSMW07_052324	Total/NA	Water	RSK-175	
410-174036-5	35AWW23_052324	Total/NA	Water	RSK-175	
410-174036-6	35AWW06_052324	Total/NA	Water	RSK-175	
MB 410-512911/1-A	Method Blank	Total/NA	Water	RSK-175	
LCS 410-512911/2-A	Lab Control Sample	Total/NA	Water	RSK-175	

Analysis Batch: 513353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-174036-3	35AWW20_052324	Total/NA	Water	RSK-175	513397
410-174036-4	35AWW11_052324	Total/NA	Water	RSK-175	513397
MB 410-513397/1-A	Method Blank	Total/NA	Water	RSK-175	513397
LCS 410-513397/2-A	Lab Control Sample	Total/NA	Water	RSK-175	513397
LCSD 410-513397/3-A	Lab Control Sample Dup	Total/NA	Water	RSK-175	513397

Prep Batch: 513397

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-174036-3	35AWW20_052324	Total/NA	Water	RSK-175	
410-174036-4	35AWW11_052324	Total/NA	Water	RSK-175	
MB 410-513397/1-A	Method Blank	Total/NA	Water	RSK-175	
LCS 410-513397/2-A	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 410-513397/3-A	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Client Sample ID: 35AWW19_052324
Lab Sample ID: 410-174036-1
Date Collected: 05/23/24 07:40
Matrix: Water
Date Received: 05/31/24 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	RSK-175			512911	HQR6	ELLE	06/03/24 09:53
Total/NA	Analysis	RSK-175		1	512895	LXF2	ELLE	06/03/24 11:00

Client Sample ID: LHSMW07_052324
Lab Sample ID: 410-174036-2
Date Collected: 05/23/24 08:30
Matrix: Water
Date Received: 05/31/24 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	RSK-175			512911	HQR6	ELLE	06/03/24 09:53
Total/NA	Analysis	RSK-175		1	512895	LXF2	ELLE	06/03/24 11:07

Client Sample ID: 35AWW20_052324
Lab Sample ID: 410-174036-3
Date Collected: 05/23/24 09:20
Matrix: Water
Date Received: 05/31/24 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	RSK-175			513397	HQR6	ELLE	06/04/24 10:14
Total/NA	Analysis	RSK-175		10	513353	LXF2	ELLE	06/04/24 12:21

Client Sample ID: 35AWW11_052324
Lab Sample ID: 410-174036-4
Date Collected: 05/23/24 10:10
Matrix: Water
Date Received: 05/31/24 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	RSK-175			513397	HQR6	ELLE	06/04/24 10:14
Total/NA	Analysis	RSK-175		10	513353	LXF2	ELLE	06/04/24 12:29

Client Sample ID: 35AWW23_052324
Lab Sample ID: 410-174036-5
Date Collected: 05/23/24 11:00
Matrix: Water
Date Received: 05/31/24 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	RSK-175			512911	HQR6	ELLE	06/03/24 09:53
Total/NA	Analysis	RSK-175		1	512895	LXF2	ELLE	06/03/24 11:31

Client Sample ID: 35AWW06_052324
Lab Sample ID: 410-174036-6
Date Collected: 05/23/24 11:50
Matrix: Water
Date Received: 05/31/24 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	RSK-175			512911	HQR6	ELLE	06/03/24 09:53
Total/NA	Analysis	RSK-175		1	512895	LXF2	ELLE	06/03/24 11:39

Laboratory References:
ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

01336228

Client: ALS Group USA, Corp
Job ID: 410-174036-1
Project/Site: HS24051535

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	11-30-24

Method Summary

Client: ALS Group USA, Corp
Project/Site: HS24051535

Job ID: 410-174036-1

Method	Method Description	Protocol	Laboratory
RSK-175	Dissolved Gases (GC)	RSK	ELLE
RSK-175	Dissolved Gases Prep	RSK	ELLE

Protocol References:

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev 0, 8/11/94, USEPA Research Lab

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

01336230

Client: ALS Group USA, Corp
Job ID: 410-174036-1
Project/Site: HS24051535

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-174036-1	35AWW19_052324	Water	05/23/24 07:40	05/31/24 10:15
410-174036-2	LHSMW07_052324	Water	05/23/24 08:30	05/31/24 10:15
410-174036-3	35AWW20_052324	Water	05/23/24 09:20	05/31/24 10:15
410-174036-4	35AWW11_052324	Water	05/23/24 10:10	05/31/24 10:15
410-174036-5	35AWW23_052324	Water	05/23/24 11:00	05/31/24 10:15
410-174036-6	35AWW06_052324	Water	05/23/24 11:50	05/31/24 10:15

GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-174036-1

SDG No.:

Instrument ID: 19506-B Analysis Batch Number: 499750

Lab Sample ID: IC 410-499750/13 Client Sample ID:

Date Analyzed: 04/29/24 16:37 Lab File ID: 312024_4_29BB.0013.d GC Column: 19809 ID: 1(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon dioxide	1.98	Baseline Smoothing	LXF2	04/30/24 04:03

GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-174036-1

SDG No.:

Instrument ID: 19506-B Analysis Batch Number: 512895

Lab Sample ID: 410-174036-1 Client Sample ID: 35AWW19_052324

Date Analyzed: 06/03/24 11:00 Lab File ID: 312024_6_3BB.0007.d GC Column: 19809 ID: 1(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon dioxide	1.98	Assign Peak	LXF2	06/04/24 04:03

Lab Sample ID: 410-174036-5 Client Sample ID: 35AWW23_052324

Date Analyzed: 06/03/24 11:31 Lab File ID: 312024_6_3BB.0011.d GC Column: 19809 ID: 1(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon dioxide	1.99	Assign Peak	LXF2	06/04/24 04:03

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-174036-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
EPH_CO2ICV_00003	04/01/25	04/01/24	DI Water, Lot In House	1 mL	EPH_CO2XX_00003	0.0018 g	Carbon dioxide	547000 ppb
.EPH_CO2XX_00003	04/01/25	Air Products, Lot A214157			(Purchased Reagent)		Carbon dioxide	30.3889 %
EPH_CO2MS_00006	07/18/24	07/18/23	DI Water, Lot In House	1 g	EPH_CO2CRV_00003	0.0018 g	Carbon dioxide	1791000 ppb
.EPH_CO2CRV_00003	07/18/24	Praxair, Lot 4-11-18			(Purchased Reagent)		Carbon dioxide	99.5 %

Method RSK-175 CO2 DOD

Dissolved Gases (GC) by Method RSK_175_CO2 DOD

FORM III
GC VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-174036-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 312024_6_3BB.0006.d

Lab ID: LCS 410-512911/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Carbon dioxide	35800	38800	108	80-122	

Column to be used to flag recovery and RPD values

FORM III RSK-175

FORM III
GC VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-174036-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 312024_6_4BB.0006.d

Lab ID: LCS 410-513397/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Carbon dioxide	35800	39600	111	80-122	

Column to be used to flag recovery and RPD values

FORM III RSK-175

FORM III
GC VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-174036-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 312024_6_4BB.0007.d

Lab ID: LCSD 410-513397/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Carbon dioxide	35800	40200	112	1	20	80-122	

Column to be used to flag recovery and RPD values

FORM III RSK-175

FORM IV
GC VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-174036-1

SDG No.:

Lab File ID: 312024_6_3BB.0005.d Lab Sample ID: MB 410-512911/1-A

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: 19506-B Date Analyzed: 06/03/2024 10:18

GC Column: 19809 ID: 1(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-512911/2-A	312024_6_3BB.0006.d	06/03/2024 10:26
35AWW19_052324	410-174036-1	312024_6_3BB.0007.d	06/03/2024 11:00
LHSMW07_052324	410-174036-2	312024_6_3BB.0008.d	06/03/2024 11:07
35AWW23_052324	410-174036-5	312024_6_3BB.0011.d	06/03/2024 11:31
35AWW06_052324	410-174036-6	312024_6_3BB.0012.d	06/03/2024 11:39

FORM IV
GC VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-174036-1

SDG No.:

Lab File ID: 312024_6_4BB.0005.d Lab Sample ID: MB 410-513397/1-A

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: 19506-B Date Analyzed: 06/04/2024 10:27

GC Column: 19809 ID: 1(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-513397/2-A	312024_6_4BB.0006.d	06/04/2024 10:34
	LCSD 410-513397/3-A	312024_6_4BB.0007.d	06/04/2024 10:42
35AWW20_052324	410-174036-3	312024_6_4BB.0017.d	06/04/2024 12:21
35AWW11_052324	410-174036-4	312024_6_4BB.0018.d	06/04/2024 12:29

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-174036-1

SDG No.:

Client Sample ID: 35AWW19_052324 Lab Sample ID: 410-174036-1

Matrix: Water Lab File ID: 312024_6_3BB.0007.d

Analysis Method: RSK-175 Date Collected: 05/23/2024 07:40

Sample wt/vol: 5(mL) Date Analyzed: 06/03/2024 11:00

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: 19809 ID: 1(mm)

Purge Volume: Heated Purge: (Y/N) N pH: 6.0

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 512895 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
124-38-9	Carbon dioxide	250000	M	12000	11000	5600

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20240603-115596.b\312024_6_3BB.0007.d				
Lims ID:	410-174036-A-1-A				
Client ID:	35AWW19_052324				
Sample Type:	Client				
Inject. Date:	03-Jun-2024 11:00:00	ALS Bottle#:	0	Worklist Smp#:	7
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0115596-007				
Operator ID:		Instrument ID:	19506-B		
Method:	\\chromfs\Lancaster\ChromData\19506-B\20240603-115596.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	04-Jun-2024 04:04:42	Calib Date:	29-Apr-2024 16:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d				
Column 1 :	ShinCarbon ST Microplacked GC (1.00 mm)		Det: 0FIDA		
Process Host:	CTX1618				
First Level Reviewer: LXF2		Date:	04-Jun-2024 04:03:27		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
1 Carbon dioxide	1.983	2.037	-0.054	778896612H	248222	Ma

QC Flag Legend

Processing Flags

H - Response Measured by Height

Review Flags

M - Manually Integrated

a - User Assigned ID

Report Date: 04-Jun-2024 04:04:43 Chrom Revision: 2.3 20-May-2024 22:00:34

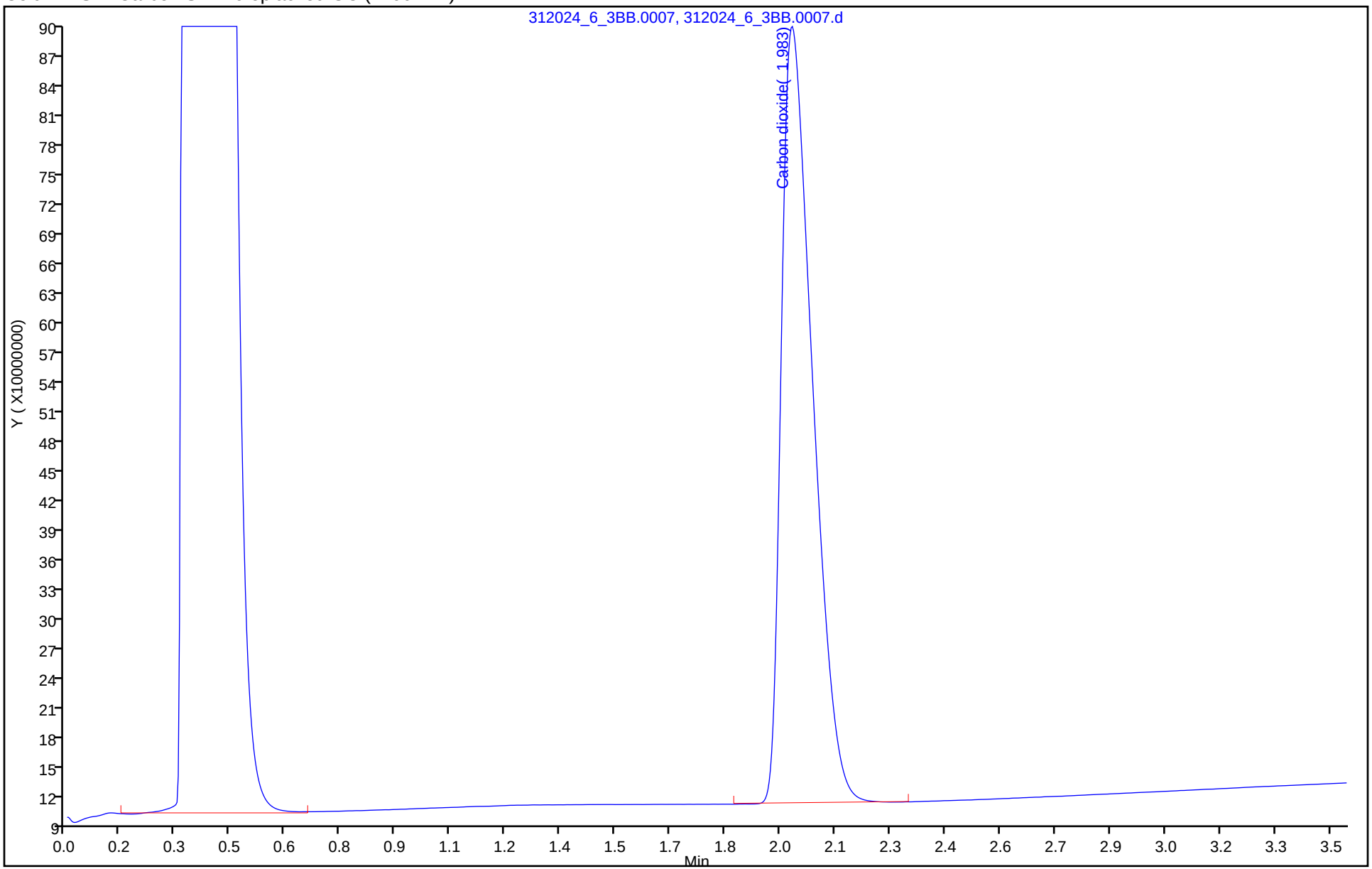
01336242

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240603-115596.b\312024_6_3BB.0007.d

Injection Date:	03-Jun-2024 11:00:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	410-174036-A-1-A	Lab Sample ID:	410-174036-1	Worklist Smp#:	7
Client ID:	35AWW19_052324				
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: ShinCarbon ST Microplacked GC (1.00 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

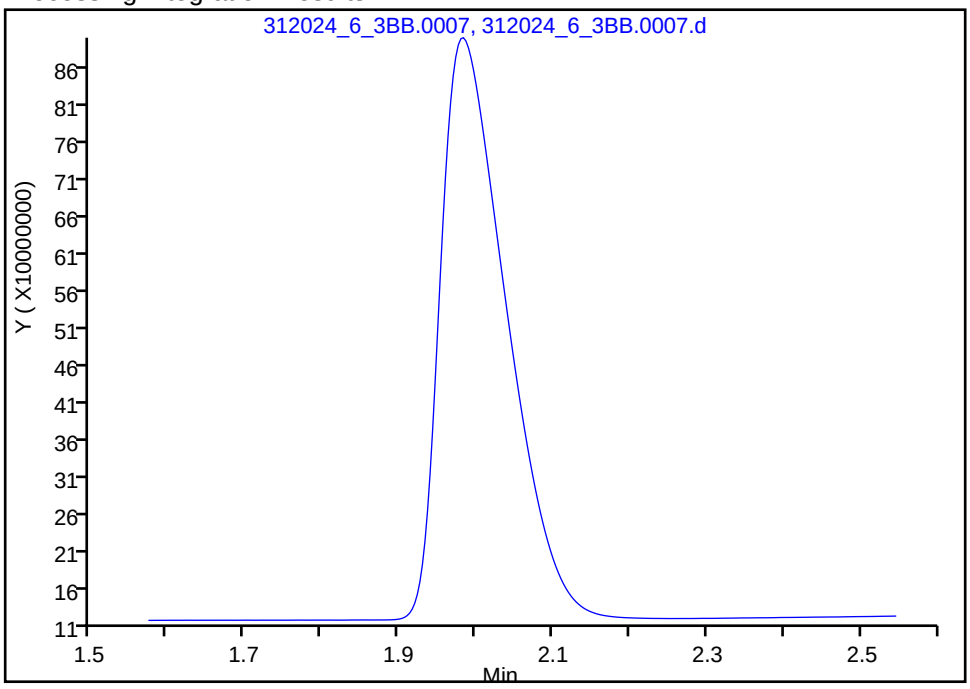
Data File:	\\chromfs\Lancaster\ChromData\19506-B\20240603-115596.b\312024_6_3BB.0007.d				
Injection Date:	03-Jun-2024 11:00:00	Instrument ID:	19506-B		
Lims ID:	410-174036-A-1-A	Lab Sample ID:	410-174036-1		
Client ID:	35AWW19_052324				
Operator ID:		ALS Bottle#:	0	Worklist Smp#:	7
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		
Column:	ShinCarbon ST Microplacked GC (1.00 mm)	Detector	0FIDA		

1 Carbon dioxide, CAS: 124-38-9

Signal: 1

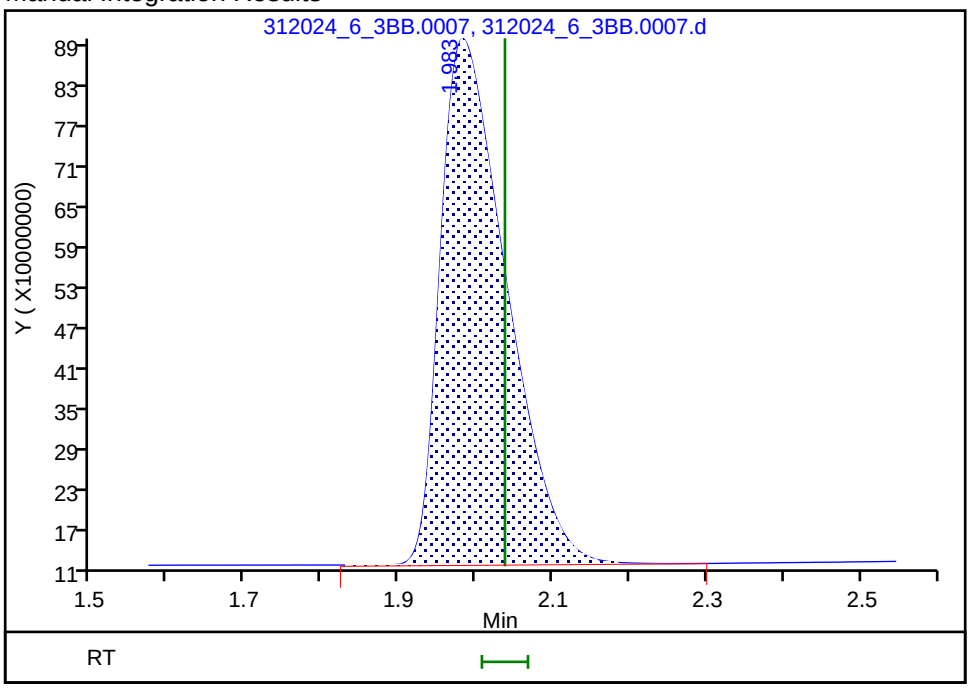
Not Detected
Expected RT: 2.04

Processing Integration Results



Manual Integration Results

RT: 1.98
Height: 778896612
Amount: 248222
Amount Units: ug/l



Reviewer: LXF2, 04-Jun-2024 04:03:26 -04:00:00 (UTC)
Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Assign Peak

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-174036-1

SDG No.:

Client Sample ID: LHSMW07_052324 Lab Sample ID: 410-174036-2

Matrix: Water Lab File ID: 312024_6_3BB.0008.d

Analysis Method: RSK-175 Date Collected: 05/23/2024 08:30

Sample wt/vol: 5(mL) Date Analyzed: 06/03/2024 11:07

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: 19809 ID: 1(mm)

Purge Volume: Heated Purge: (Y/N) N pH: 7.0

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 512895 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
124-38-9	Carbon dioxide	140000		12000	11000	5600

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20240603-115596.b\312024_6_3BB.0008.d				
Lims ID:	410-174036-A-2-A				
Client ID:	LHSMW07_052324				
Sample Type:	Client				
Inject. Date:	03-Jun-2024 11:07:00	ALS Bottle#:	0	Worklist Smp#:	8
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0115596-008				
Operator ID:		Instrument ID:	19506-B		
Method:	\\chromfs\Lancaster\ChromData\19506-B\20240603-115596.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	04-Jun-2024 04:04:42	Calib Date:	29-Apr-2024 16:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d				
Column 1 :	ShinCarbon ST Microplacked GC (1.00 mm)		Det: 0FIDA		
Process Host:	CTX1618				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.014	2.037	-0.023	423774687	135050	H

Report Date: 04-Jun-2024 04:04:43 Chrom Revision: 2.3 20-May-2024 22:00:34

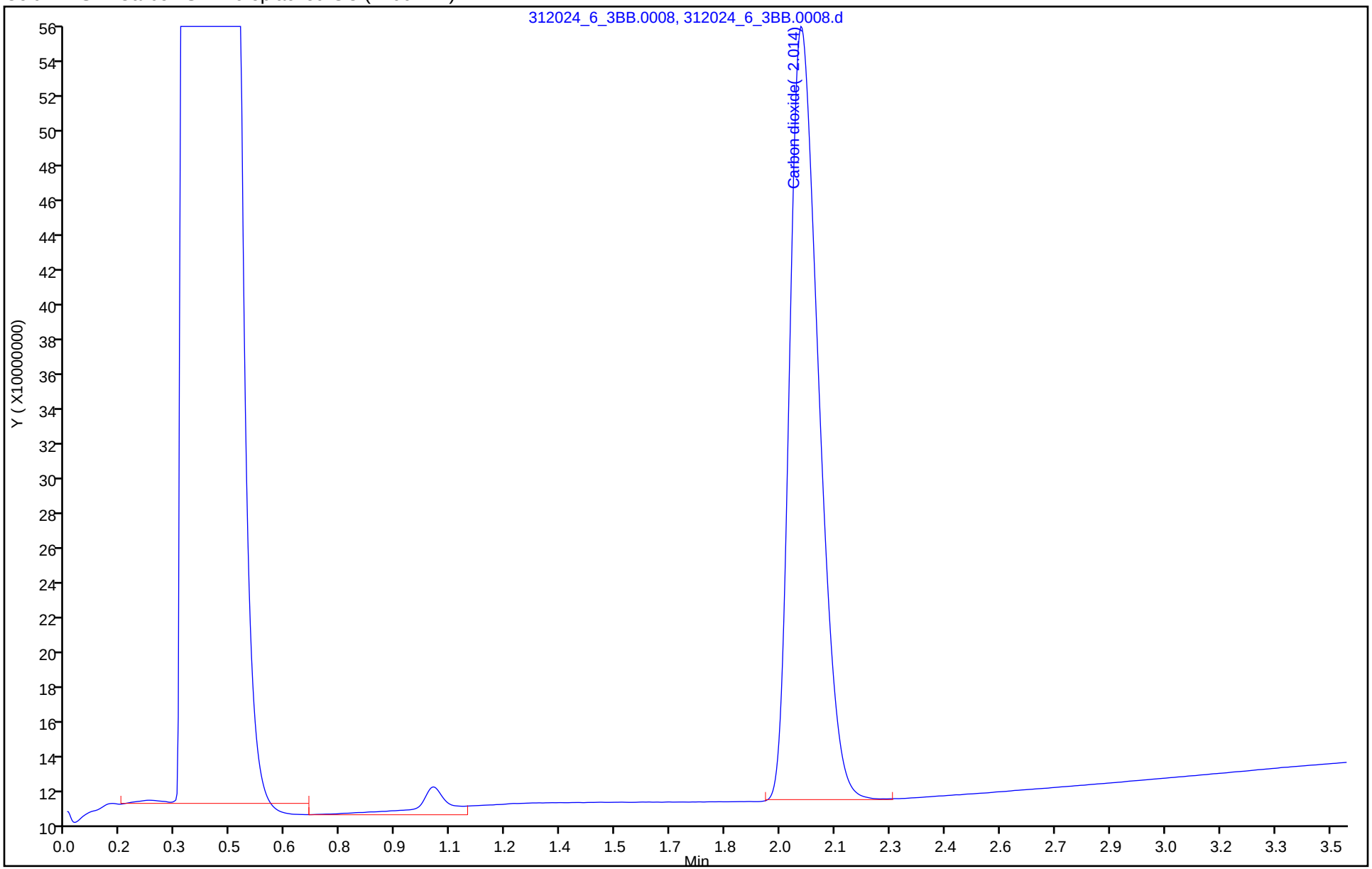
01336246

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240603-115596.b\312024_6_3BB.0008.d

Injection Date:	03-Jun-2024 11:07:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	410-174036-A-2-A	Lab Sample ID:	410-174036-2	Worklist Smp#:	8
Client ID:	LHSMW07_052324				
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: ShinCarbon ST Microplacked GC (1.00 mm)



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-174036-1

SDG No.:

Client Sample ID: 35AWW20_052324 Lab Sample ID: 410-174036-3

Matrix: Water Lab File ID: 312024_6_4BB.0017.d

Analysis Method: RSK-175 Date Collected: 05/23/2024 09:20

Sample wt/vol: 5(mL) Date Analyzed: 06/04/2024 12:21

Soil Aliquot Vol: Dilution Factor: 10

Soil Extract Vol.: GC Column: 19809 ID: 1(mm)

Purge Volume: Heated Purge: (Y/N) N pH: 6.0

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 513353 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
124-38-9	Carbon dioxide	800000	D	120000	110000	56000

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20240604-115704.b\312024_6_4BB.0017.d				
Lims ID:	410-174036-B-3-A DL				
Client ID:	35AWW20_052324				
Sample Type:	Client				
Inject. Date:	04-Jun-2024 12:21:00	ALS Bottle#:	0	Worklist Smp#:	17
Purge Vol:	1.000 mL	Dil. Factor:	10.0000		
Sample Info:					
Misc. Info.:	410-0115704-017				
Operator ID:		Instrument ID:	19506-B		
Method:	\\chromfs\Lancaster\ChromData\19506-B\20240604-115704.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	05-Jun-2024 04:01:24	Calib Date:	29-Apr-2024 16:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d				
Column 1 :	ShinCarbon ST Microplacked GC (1.00 mm)		Det: 0FIDA		
Process Host:	CTX1622				

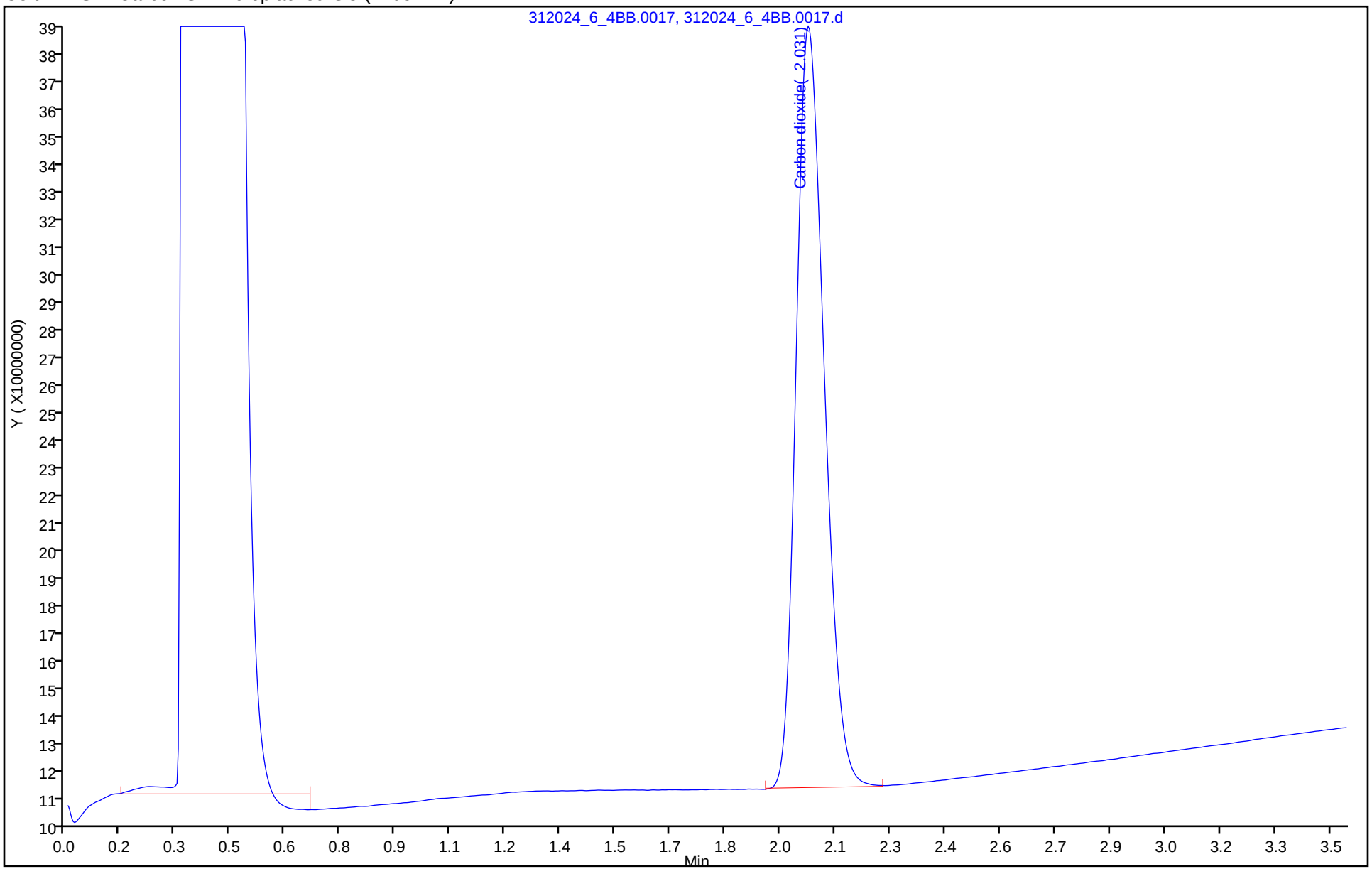
Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.031	2.042	-0.011	250780837	79920	H

Report Date: 05-Jun-2024 04:01:24 Chrom Revision: 2.3 20-May-2024 22:00:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20240604-115704.b\312024_6_4BB.0017.d				
Injection Date:	04-Jun-2024 12:21:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	410-174036-B-3-A DL	Lab Sample ID:	410-174036-3	Worklist Smp#:	17
Client ID:	35AWW20_052324				
Purge Vol:	1.000 mL	Dil. Factor:	10.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: ShinCarbon ST Microplacked GC (1.00 mm)



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-174036-1

SDG No.:

Client Sample ID: 35AWW11_052324 Lab Sample ID: 410-174036-4

Matrix: Water Lab File ID: 312024_6_4BB.0018.d

Analysis Method: RSK-175 Date Collected: 05/23/2024 10:10

Sample wt/vol: 5(mL) Date Analyzed: 06/04/2024 12:29

Soil Aliquot Vol: Dilution Factor: 10

Soil Extract Vol.: GC Column: 19809 ID: 1(mm)

Purge Volume: Heated Purge: (Y/N) N pH: 6.0

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 513353 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
124-38-9	Carbon dioxide	810000	D	120000	110000	56000

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20240604-115704.b\312024_6_4BB.0018.d				
Lims ID:	410-174036-B-4-A DL				
Client ID:	35AWW11_052324				
Sample Type:	Client				
Inject. Date:	04-Jun-2024 12:29:00	ALS Bottle#:	0	Worklist Smp#:	18
Purge Vol:	1.000 mL	Dil. Factor:	10.0000		
Sample Info:					
Misc. Info.:	410-0115704-018				
Operator ID:		Instrument ID:	19506-B		
Method:	\\chromfs\Lancaster\ChromData\19506-B\20240604-115704.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	05-Jun-2024 04:01:24	Calib Date:	29-Apr-2024 16:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d				
Column 1 :	ShinCarbon ST Microplacked GC (1.00 mm)		Det: 0FIDA		
Process Host:	CTX1622				

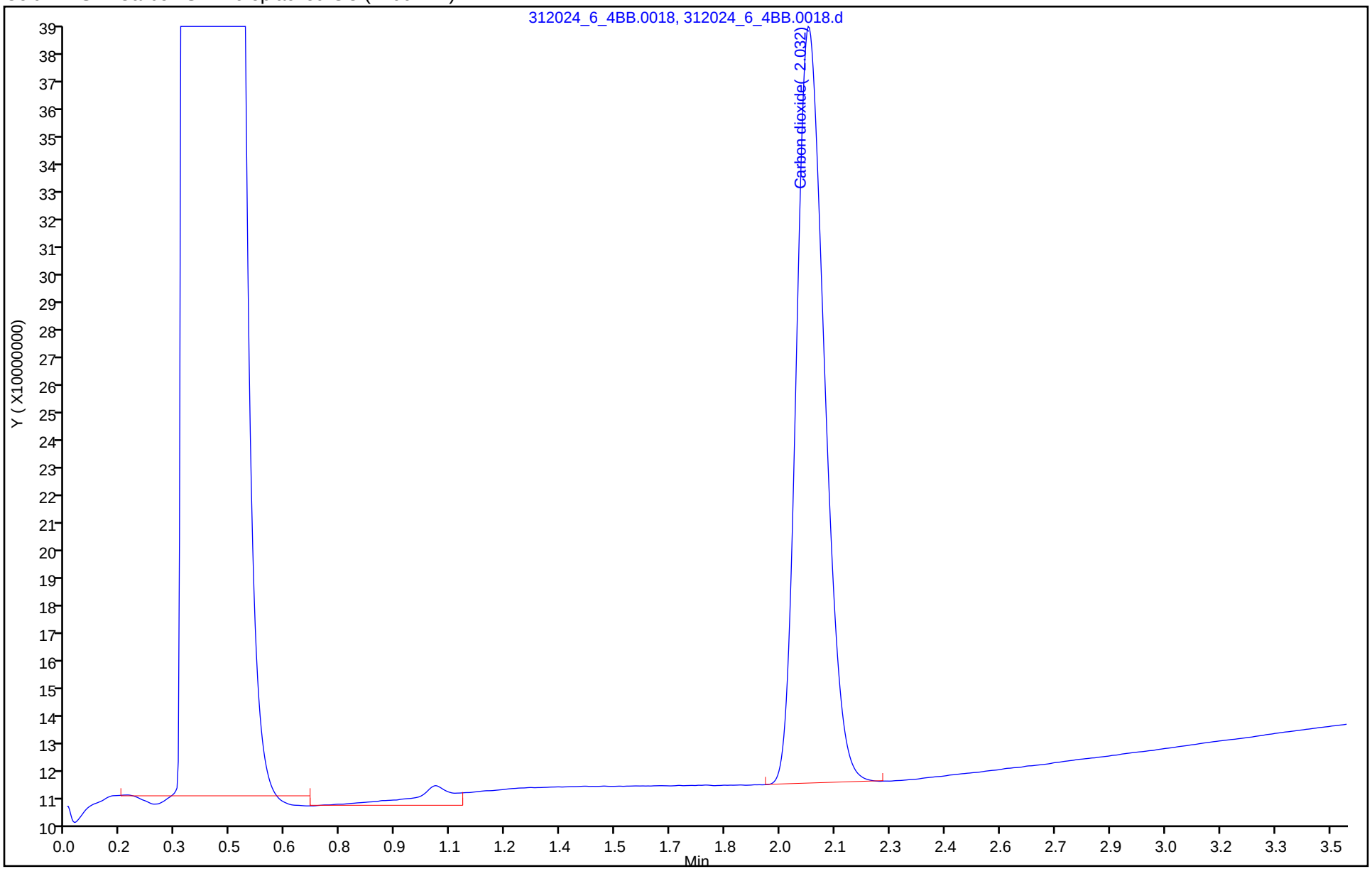
Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.032	2.042	-0.010	254928430	81242	H

Report Date: 05-Jun-2024 04:01:25 Chrom Revision: 2.3 20-May-2024 22:00:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20240604-115704.b\312024_6_4BB.0018.d				
Injection Date:	04-Jun-2024 12:29:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	410-174036-B-4-A DL	Lab Sample ID:	410-174036-4	Worklist Smp#:	18
Client ID:	35AWW11_052324				
Purge Vol:	1.000 mL	Dil. Factor:	10.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: ShinCarbon ST Microplacked GC (1.00 mm)



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-174036-1

SDG No.:

Client Sample ID: 35AWW23_052324 Lab Sample ID: 410-174036-5

Matrix: Water Lab File ID: 312024_6_3BB.0011.d

Analysis Method: RSK-175 Date Collected: 05/23/2024 11:00

Sample wt/vol: 5(mL) Date Analyzed: 06/03/2024 11:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: 19809 ID: 1(mm)

Purge Volume: Heated Purge: (Y/N) N pH: 7.0

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 512895 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
124-38-9	Carbon dioxide	230000	M	12000	11000	5600

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20240603-115596.b\312024_6_3BB.0011.d				
Lims ID:	410-174036-A-5-A				
Client ID:	35AWW23_052324				
Sample Type:	Client				
Inject. Date:	03-Jun-2024 11:31:00	ALS Bottle#:	0	Worklist Smp#:	11
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0115596-011				
Operator ID:		Instrument ID:	19506-B		
Method:	\\chromfs\Lancaster\ChromData\19506-B\20240603-115596.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	04-Jun-2024 04:04:42	Calib Date:	29-Apr-2024 16:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d				
Column 1 :	ShinCarbon ST Microplacked GC (1.00 mm)		Det: 0FIDA		
Process Host:	CTX1618				
First Level Reviewer: LXF2		Date:	04-Jun-2024 04:03:47		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
1 Carbon dioxide	1.987	2.037	-0.050	727425321H	231819	Ma

QC Flag Legend

Processing Flags

H - Response Measured by Height

Review Flags

M - Manually Integrated

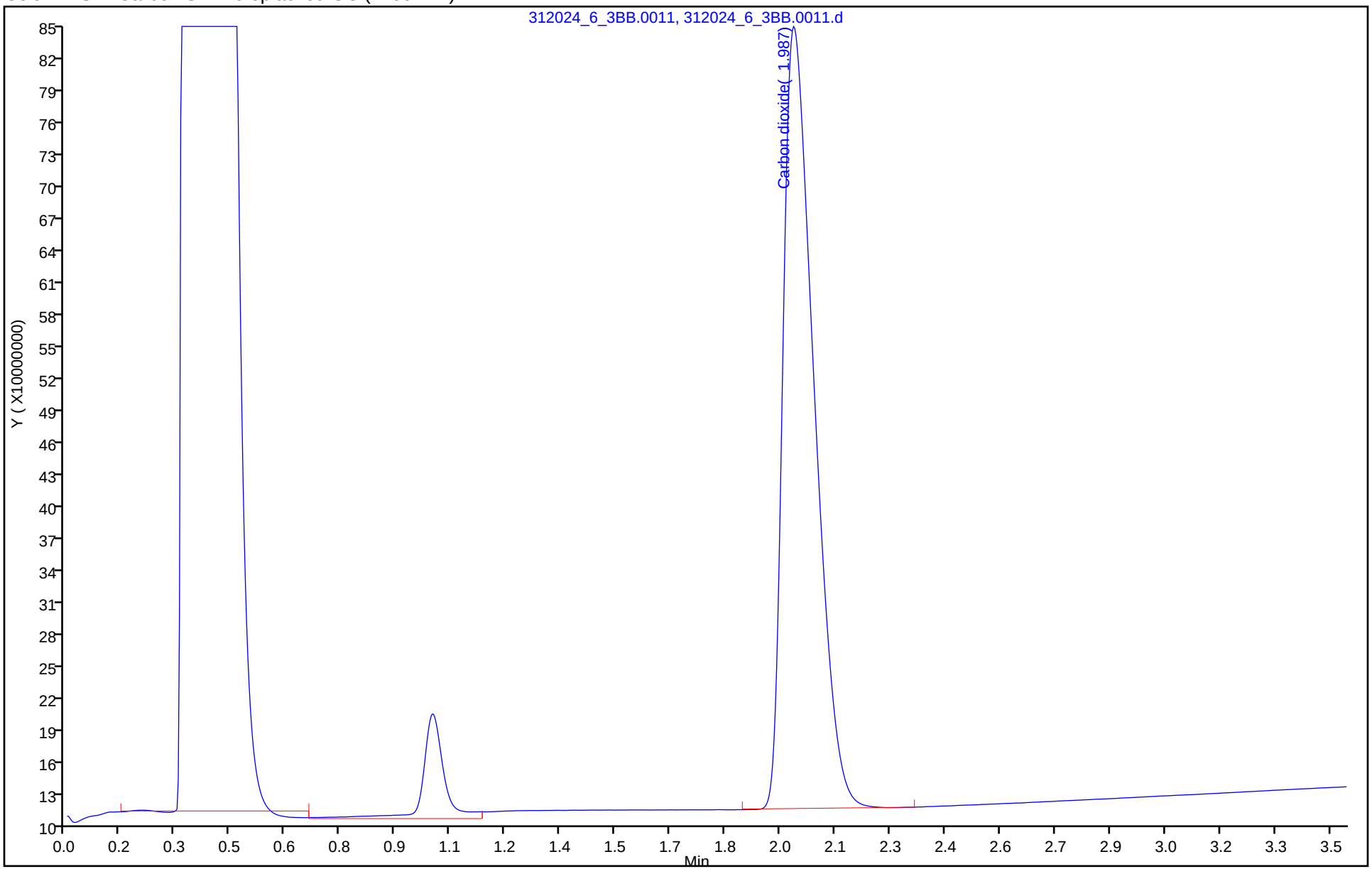
a - User Assigned ID

Report Date: 04-Jun-2024 04:04:44 Chrom Revision: 2.3 20-May-2024 22:00:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20240603-115596.b\312024_6_3BB.0011.d				
Injection Date:	03-Jun-2024 11:31:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	410-174036-A-5-A	Lab Sample ID:	410-174036-5	Worklist Smp#:	11
Client ID:	35AWW23_052324				
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: ShinCarbon ST Microplacked GC (1.00 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

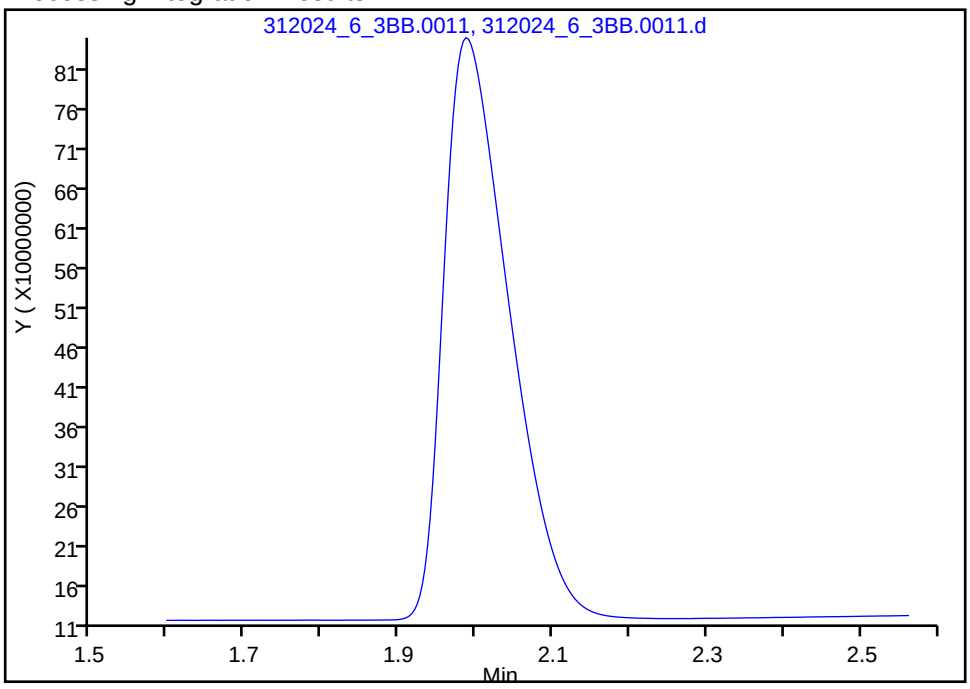
Data File:	\\chromfs\Lancaster\ChromData\19506-B\20240603-115596.b\312024_6_3BB.0011.d		
Injection Date:	03-Jun-2024 11:31:00	Instrument ID:	19506-B
Lims ID:	410-174036-A-5-A	Lab Sample ID:	410-174036-5
Client ID:	35AWW23_052324		
Operator ID:		ALS Bottle#:	0 Worklist Smp#: 11
Purge Vol:	1.000 mL	Dil. Factor:	1.0000
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2
Column:	ShinCarbon ST Microplacked GC (1.00 mm)	Detector	0FIDA

1 Carbon dioxide, CAS: 124-38-9

Signal: 1

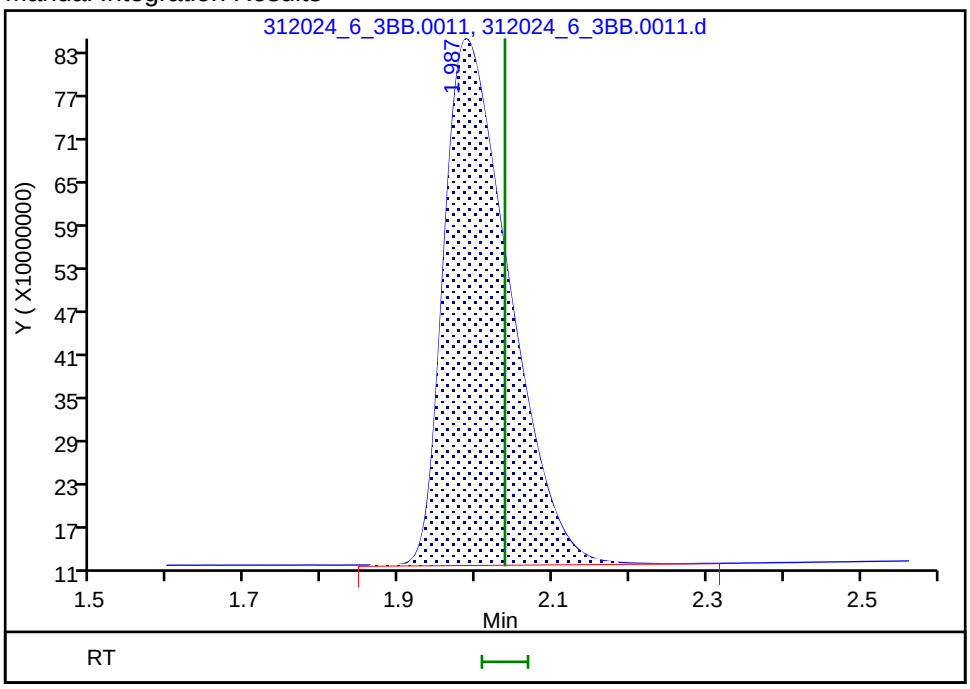
Not Detected
Expected RT: 2.04

Processing Integration Results



Manual Integration Results

RT: 1.99
Height: 727425321
Amount: 231819
Amount Units: ug/l



Reviewer: LXF2, 04-Jun-2024 04:03:45 -04:00:00 (UTC)
Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Assign Peak

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-174036-1

SDG No.:

Client Sample ID: 35AWW06_052324 Lab Sample ID: 410-174036-6

Matrix: Water Lab File ID: 312024_6_3BB.0012.d

Analysis Method: RSK-175 Date Collected: 05/23/2024 11:50

Sample wt/vol: 5(mL) Date Analyzed: 06/03/2024 11:39

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: 19809 ID: 1(mm)

Purge Volume: Heated Purge: (Y/N) N pH: 7.0

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 512895 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
124-38-9	Carbon dioxide	59000		12000	11000	5600

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20240603-115596.b\312024_6_3BB.0012.d				
Lims ID:	410-174036-A-6-A				
Client ID:	35AWW06_052324				
Sample Type:	Client				
Inject. Date:	03-Jun-2024 11:39:00	ALS Bottle#:	0	Worklist Smp#:	12
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0115596-012				
Operator ID:		Instrument ID:	19506-B		
Method:	\\chromfs\Lancaster\ChromData\19506-B\20240603-115596.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	04-Jun-2024 04:04:42	Calib Date:	29-Apr-2024 16:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d				
Column 1 :	ShinCarbon ST Microplacked GC (1.00 mm)		Det: 0FIDA		
Process Host:	CTX1618				

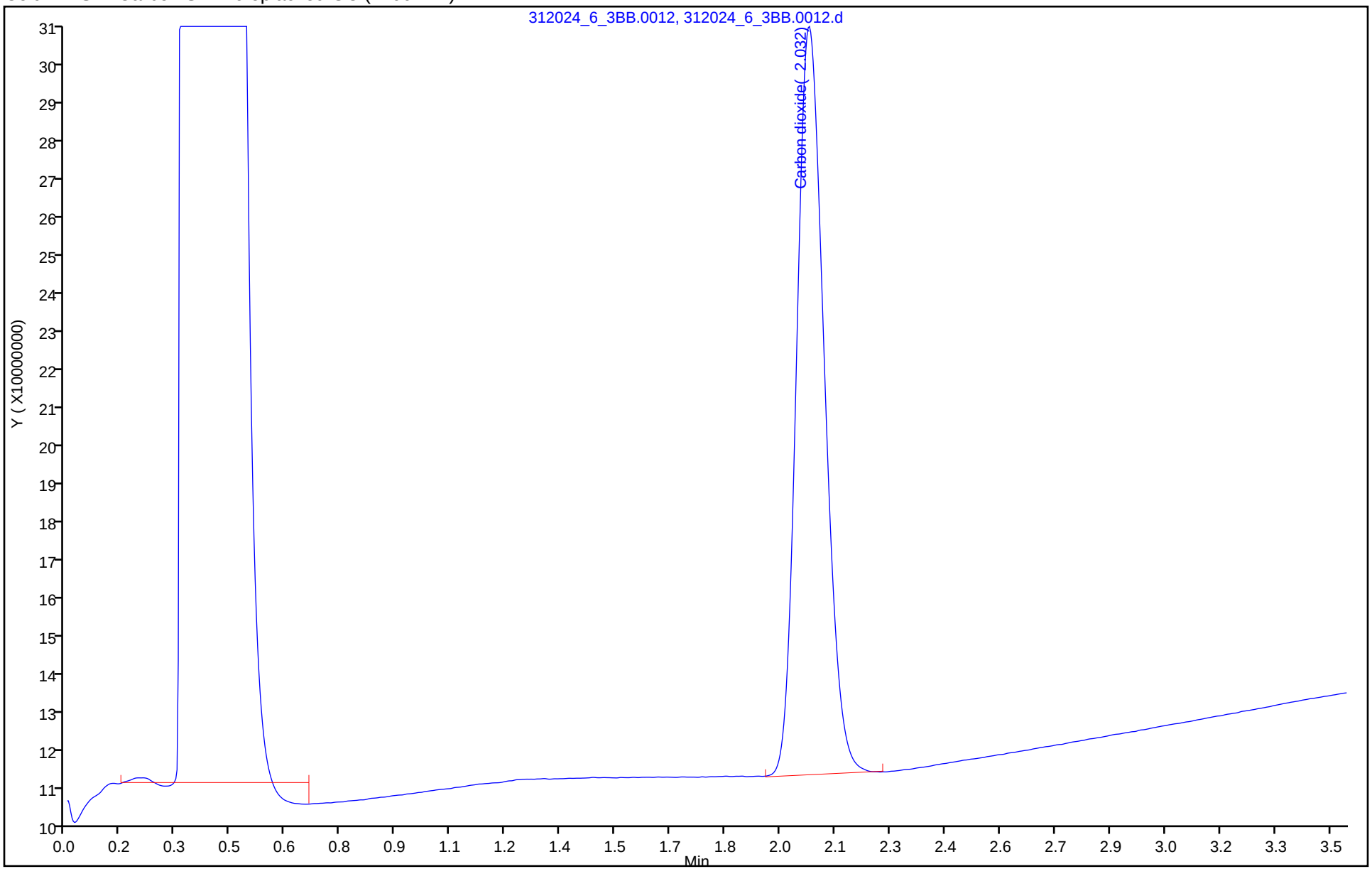
Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.032	2.037	-0.005	184150557	58686	H

Report Date: 04-Jun-2024 04:04:45 Chrom Revision: 2.3 20-May-2024 22:00:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20240603-115596.b\312024_6_3BB.0012.d				
Injection Date:	03-Jun-2024 11:39:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	410-174036-A-6-A	Lab Sample ID:	410-174036-6	Worklist Smp#:	12
Client ID:	35AWW06_052324				
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: ShinCarbon ST Microplacked GC (1.00 mm)



Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-174036-1 Analy Batch No.: 499750

SDG No.:

Instrument ID: 19506-B GC Column: 19809 ID: 1(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2024 15:57 Calibration End Date: 04/29/2024 16:37 Calibration ID: 61130

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-499750/8	312024_4_29BB.0008.d
Level 2	IC 410-499750/9	312024_4_29BB.0009.d
Level 3	ICRT 410-499750/10	312024_4_29BB.0010.d
Level 4	IC 410-499750/11	312024_4_29BB.0011.d
Level 5	IC 410-499750/12	312024_4_29BB.0012.d
Level 6	IC 410-499750/13	312024_4_29BB.0013.d

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
Carbon dioxide	2.055	2.051	2.048	2.037	2.020	1.980					2.017 - 2.077	2.032

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-174036-1 Analy Batch No.: 499750

SDG No.:

Instrument ID: 19506-B GC Column: 19809 ID: 1(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2024 15:57 Calibration End Date: 04/29/2024 16:37 Calibration ID: 61130

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-499750/8	312024_4_29BB.0008.d
Level 2	IC 410-499750/9	312024_4_29BB.0009.d
Level 3	ICRT 410-499750/10	312024_4_29BB.0010.d
Level 4	IC 410-499750/11	312024_4_29BB.0011.d
Level 5	IC 410-499750/12	312024_4_29BB.0012.d
Level 6	IC 410-499750/13	312024_4_29BB.0013.d

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
Carbon dioxide	3273.6 2914.8	3533.4 2752.9	3350.9	3001.7	Ave		3137.90247				9.4		20.0			

Note: The M1 coefficient is the same as Ave CF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-174036-1 Analy Batch No.: 499750

SDG No.:

Instrument ID: 19506-B GC Column: 19809 ID: 1(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2024 15:57 Calibration End Date: 04/29/2024 16:37 Calibration ID: 61130

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-499750/8	312024_4_29BB.0008.d
Level 2	IC 410-499750/9	312024_4_29BB.0009.d
Level 3	ICRT 410-499750/10	312024_4_29BB.0010.d
Level 4	IC 410-499750/11	312024_4_29BB.0011.d
Level 5	IC 410-499750/12	312024_4_29BB.0012.d
Level 6	IC 410-499750/13	312024_4_29BB.0013.d

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Carbon dioxide	Ave	35178219 986082668	75940683	120029586	268806379	522045301	10746 358200	21492	35820	89550	179100

Curve Type Legend:
Ave = Average by Height

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0008.d
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 29-Apr-2024 15:57:00 ALS Bottle#: 0 Worklist Smp#: 8
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 410-0112494-008
Operator ID: Instrument ID: 19506-B
Sublist: chrom-RSK_CO2_19506B*sub1

Method: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\RSK_CO2_19506B.m
Limit Group: GCV - RSK175 CO2
Last Update: 30-Apr-2024 04:04:35 Calib Date: 29-Apr-2024 16:37:00
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d

Column 1 : ShinCarbon ST Microplacked GC (1.00 mm) Det: 0FIDA
Process Host: CTX1646

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.055	2.047	0.008	35178219H	10746	11211	

Reagents:

EPH_CO2MS_00006 Amount Added: 30.00 Units: uL

Report Date: 30-Apr-2024 04:04:35 Chrom Revision: 2.3 26-Apr-2024 12:18:52

01336264

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0008.d

Injection Date: 29-Apr-2024 15:57:00 Instrument ID: 19506-B Operator ID:

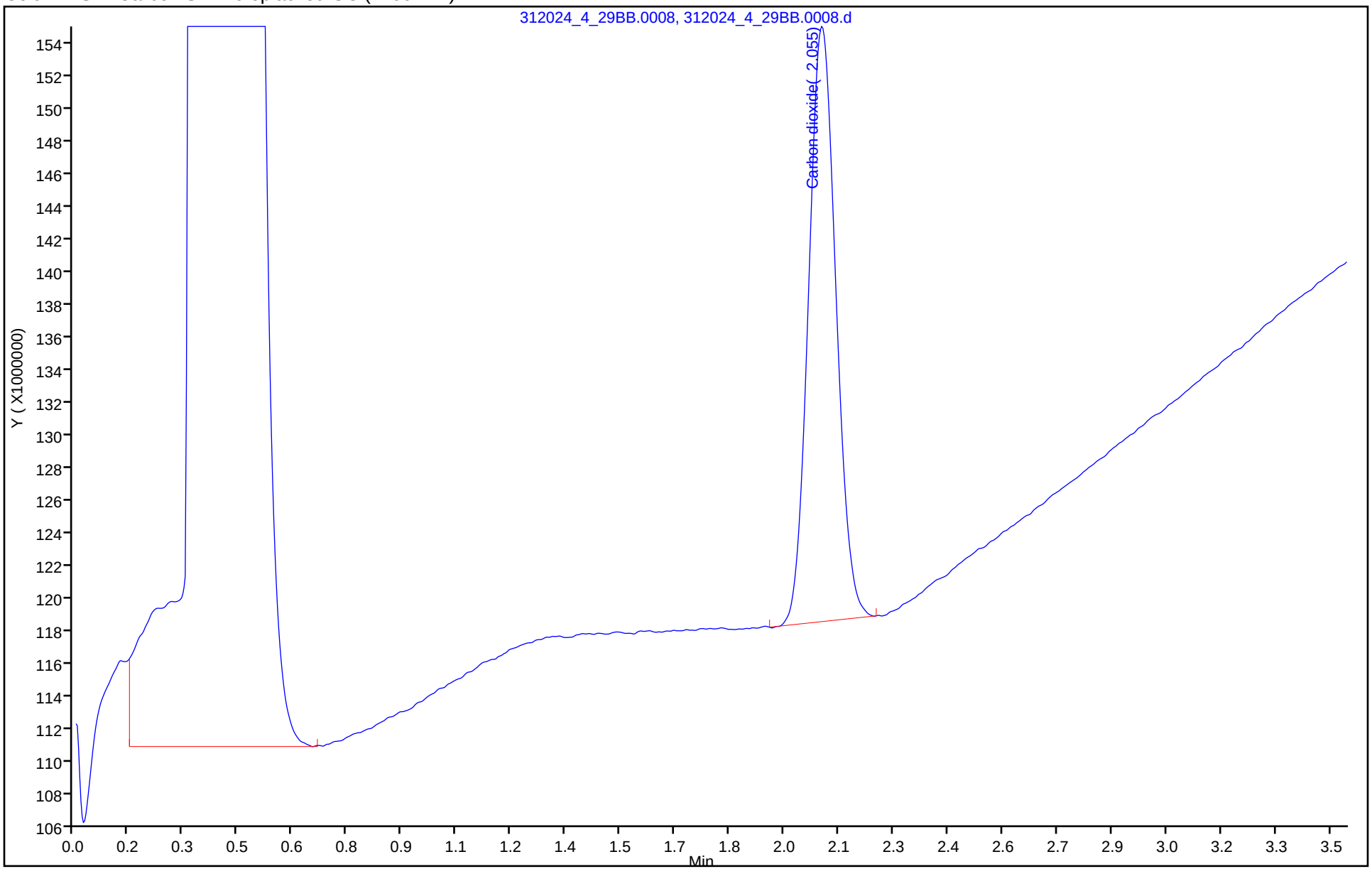
Lims ID: IC Worklist Smp#: 8

Client ID:

Purge Vol: 1.000 mL Dil. Factor: 1.0000 ALS Bottle#: 0

Method: RSK_CO2_19506B Limit Group: GCV - RSK175 CO2

Column: ShinCarbon ST Microplacked GC (1.00 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0009.d				
Lims ID:	IC				
Client ID:					
Sample Type:	IC	Calib Level:	2		
Inject. Date:	29-Apr-2024 16:06:00	ALS Bottle#:	0	Worklist Smp#:	9
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0112494-009				
Operator ID:		Instrument ID:	19506-B		
Sublist:	chrom-RSK_CO2_19506B*sub1				
Method:	\\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	30-Apr-2024 04:04:36	Calib Date:	29-Apr-2024 16:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d				
Column 1 :	ShinCarbon ST Microplacked GC (1.00 mm)		Det: 0FIDA		
Process Host:	CTX1646				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.051	2.047	0.004	75940683H	21492	24201	

Reagents:

EPH_CO2MS_00006 Amount Added: 60.00 Units: uL

Report Date: 30-Apr-2024 04:04:36 Chrom Revision: 2.3 26-Apr-2024 12:18:52

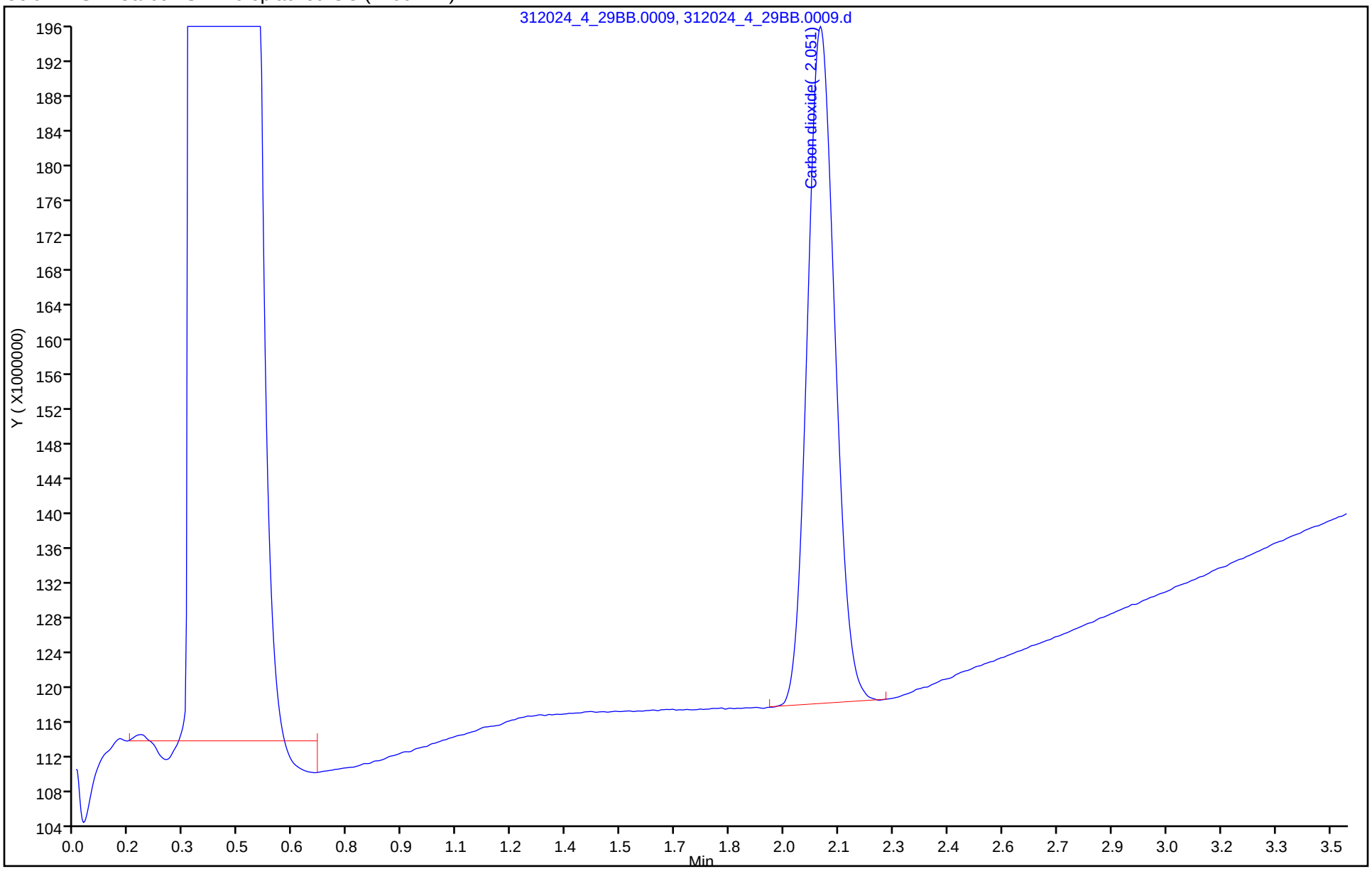
01336266

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0009.d

Injection Date:	29-Apr-2024 16:06:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	IC			Worklist Smp#:	9
Client ID:					
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: ShinCarbon ST Microplacked GC (1.00 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0010.d
Lims ID: ICRT
Client ID:
Sample Type: ICRT Calib Level: 3
Inject. Date: 29-Apr-2024 16:13:00 ALS Bottle#: 0 Worklist Smp#: 10
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 410-0112494-010
Operator ID: Instrument ID: 19506-B
Sublist: chrom-RSK_CO2_19506B*sub1

Method: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\RSK_CO2_19506B.m
Limit Group: GCV - RSK175 CO2
Last Update: 30-Apr-2024 04:04:36 Calib Date: 29-Apr-2024 16:37:00
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d

Column 1 : ShinCarbon ST Microplacked GC (1.00 mm) Det: 0FIDA
Process Host: CTX1646

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.048	2.048	0.000	120029586H	35820	38252	

Reagents:

EPH_CO2MS_00006 Amount Added: 100.00 Units: uL

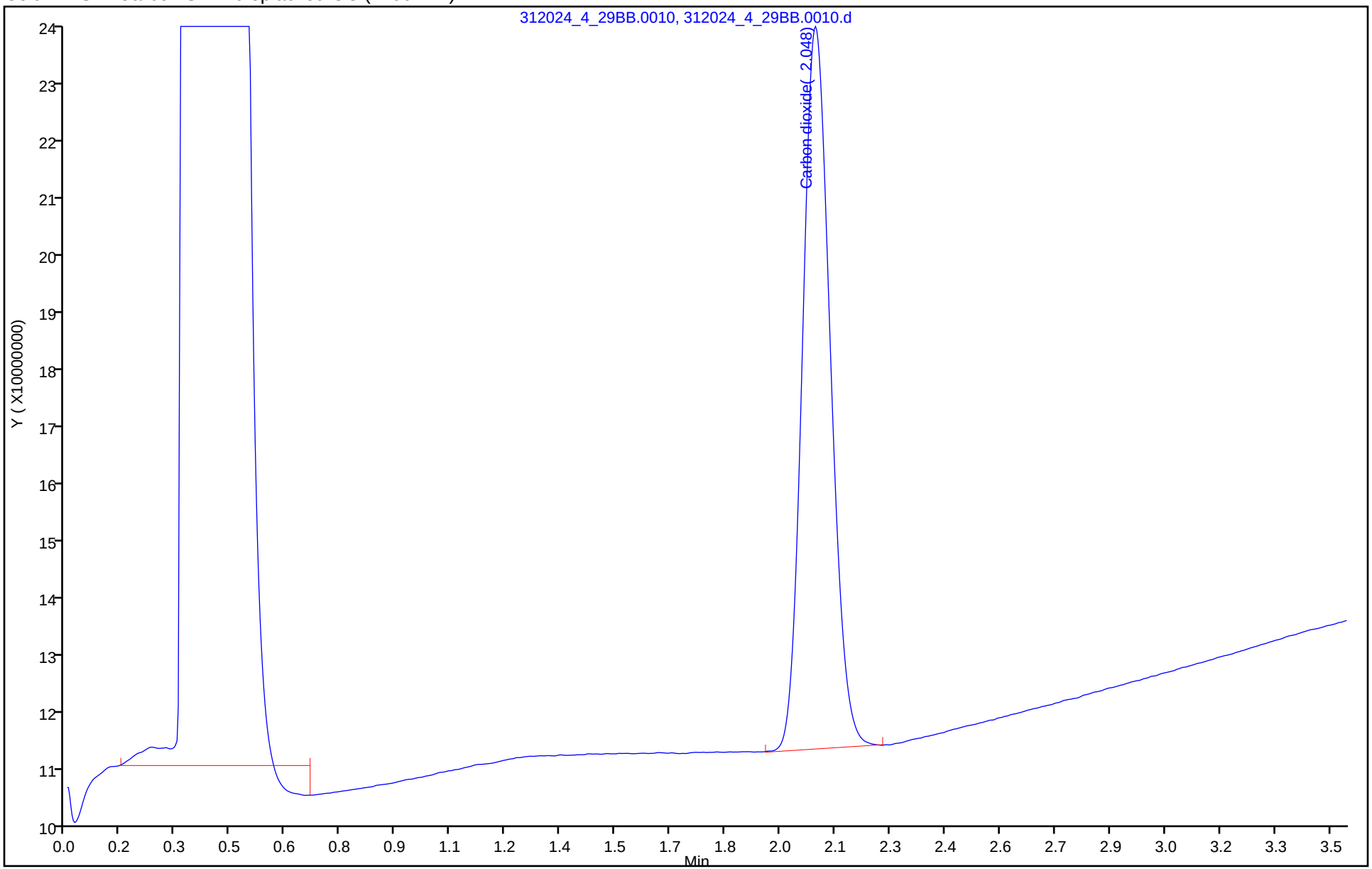
Report Date: 30-Apr-2024 04:04:36 Chrom Revision: 2.3 26-Apr-2024 12:18:52

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0010.d

Injection Date:	29-Apr-2024 16:13:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	ICRT			Worklist Smp#:	10
Client ID:					
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: ShinCarbon ST Microplacked GC (1.00 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0011.d				
Lims ID:	IC				
Client ID:					
Sample Type:	IC	Calib Level:	4		
Inject. Date:	29-Apr-2024 16:21:00	ALS Bottle#:	0	Worklist Smp#:	11
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0112494-011				
Operator ID:		Instrument ID:	19506-B		
Sublist:	chrom-RSK_CO2_19506B*sub1				
Method:	\\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	30-Apr-2024 04:04:37	Calib Date:	29-Apr-2024 16:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d				
Column 1 :	ShinCarbon ST Microplacked GC (1.00 mm)		Det: 0FIDA		
Process Host:	CTX1646				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.037	2.048	-0.011	268806379	H 89550	85664	

Reagents:

EPH_CO2MS_00006 Amount Added: 250.00 Units: uL

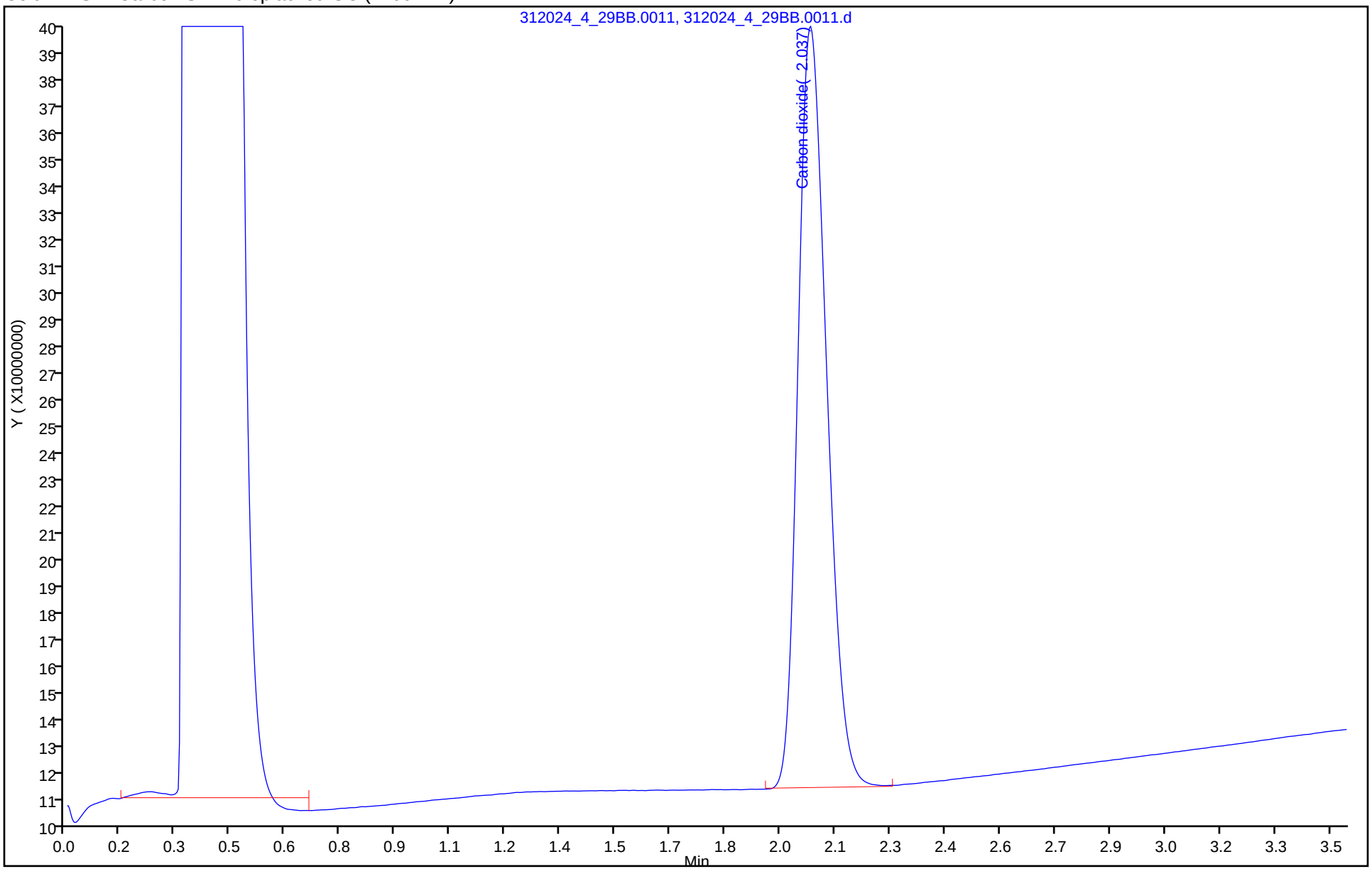
Report Date: 30-Apr-2024 04:04:37 Chrom Revision: 2.3 26-Apr-2024 12:18:52

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0011.d

Injection Date:	29-Apr-2024 16:21:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	IC			Worklist Smp#:	11
Client ID:					
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: ShinCarbon ST Microplacked GC (1.00 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0012.d				
Lims ID:	IC				
Client ID:					
Sample Type:	IC	Calib Level:	5		
Inject. Date:	29-Apr-2024 16:29:00	ALS Bottle#:	0	Worklist Smp#:	12
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0112494-012				
Operator ID:		Instrument ID:	19506-B		
Sublist:	chrom-RSK_CO2_19506B*sub1				
Method:	\\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	30-Apr-2024 04:04:38	Calib Date:	29-Apr-2024 16:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d				
Column 1 :	ShinCarbon ST Microplacked GC (1.00 mm)		Det: 0FIDA		
Process Host:	CTX1646				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.020	2.048	-0.028	522045301	H 179100	166368	

Reagents:

EPH_CO2MS_00006 Amount Added: 500.00 Units: uL

Report Date: 30-Apr-2024 04:04:38 Chrom Revision: 2.3 26-Apr-2024 12:18:52

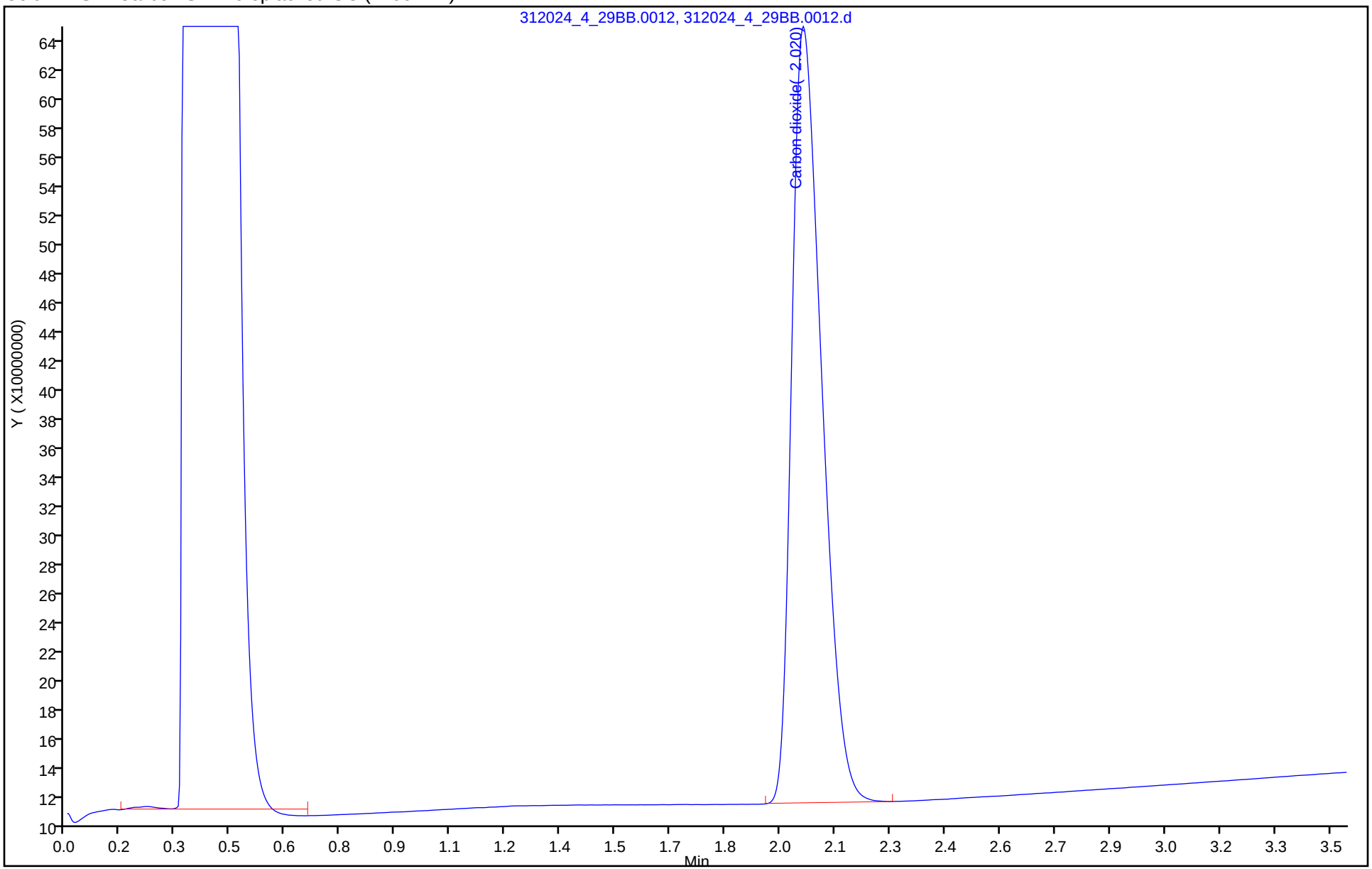
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Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0012.d

Injection Date:	29-Apr-2024 16:29:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	IC			Worklist Smp#:	12
Client ID:					
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: ShinCarbon ST Microplacked GC (1.00 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d				
Lims ID:	IC				
Client ID:					
Sample Type:	IC	Calib Level:	6		
Inject. Date:	29-Apr-2024 16:37:00	ALS Bottle#:	0	Worklist Smp#:	13
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0112494-013				
Operator ID:		Instrument ID:	19506-B		
Sublist:	chrom-RSK_CO2_19506B*sub1				
Method:	\\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	30-Apr-2024 04:04:38	Calib Date:	29-Apr-2024 16:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d				
Column 1 :	ShinCarbon ST Microplacked GC (1.00 mm)		Det: 0FIDA		
Process Host:	CTX1646				
First Level Reviewer: LXF2		Date:	30-Apr-2024 04:03:45		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	1.980	2.048	-0.068	986082668H	358200	314249	Ma

QC Flag Legend

Processing Flags

H - Response Measured by Height

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

EPH_CO2MS_00006 Amount Added: 1000.00 Units: uL

Report Date: 30-Apr-2024 04:04:38 Chrom Revision: 2.3 26-Apr-2024 12:18:52

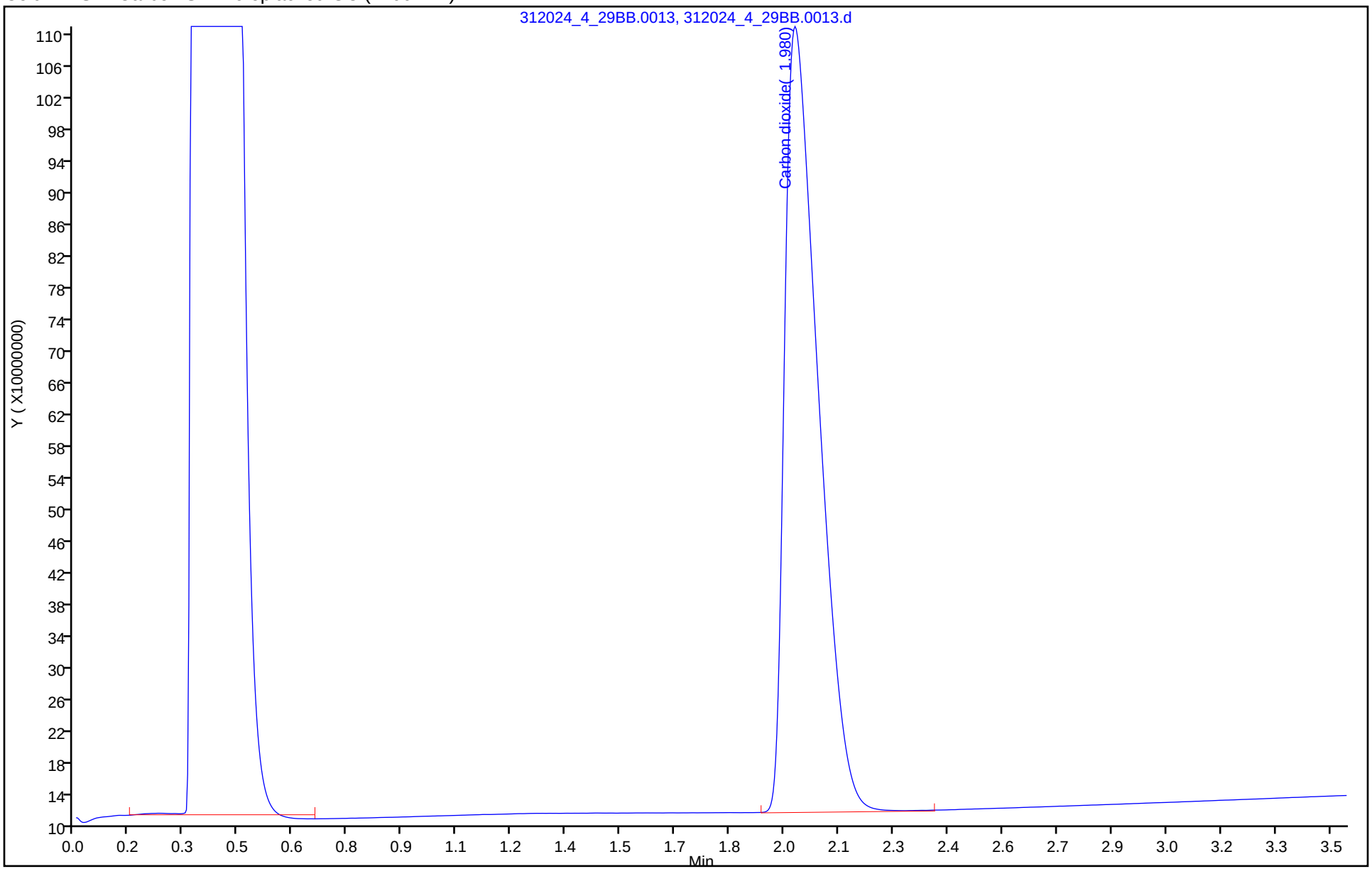
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Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d

Injection Date:	29-Apr-2024 16:37:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	IC			Worklist Smp#:	13
Client ID:					
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: ShinCarbon ST Microplacked GC (1.00 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

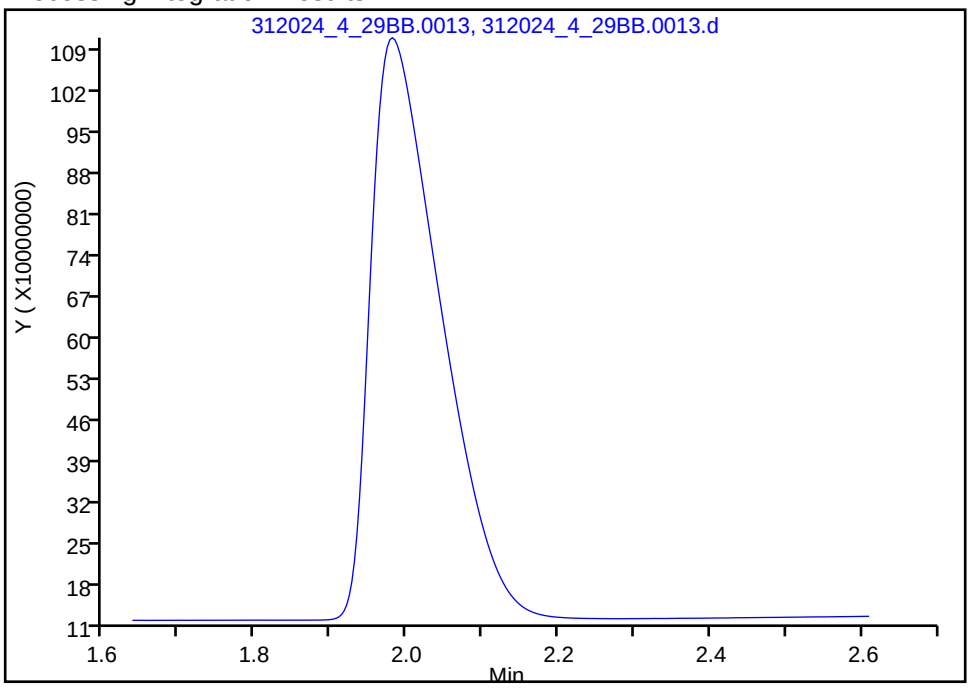
Data File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d
Injection Date: 29-Apr-2024 16:37:00 Instrument ID: 19506-B
Lims ID: IC
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 13
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Method: RSK_CO2_19506B Limit Group: GCV - RSK175 CO2
Column: ShinCarbon ST Microplacked GC (1.00 mm) Detector 0FIDA

1 Carbon dioxide, CAS: 124-38-9

Signal: 1

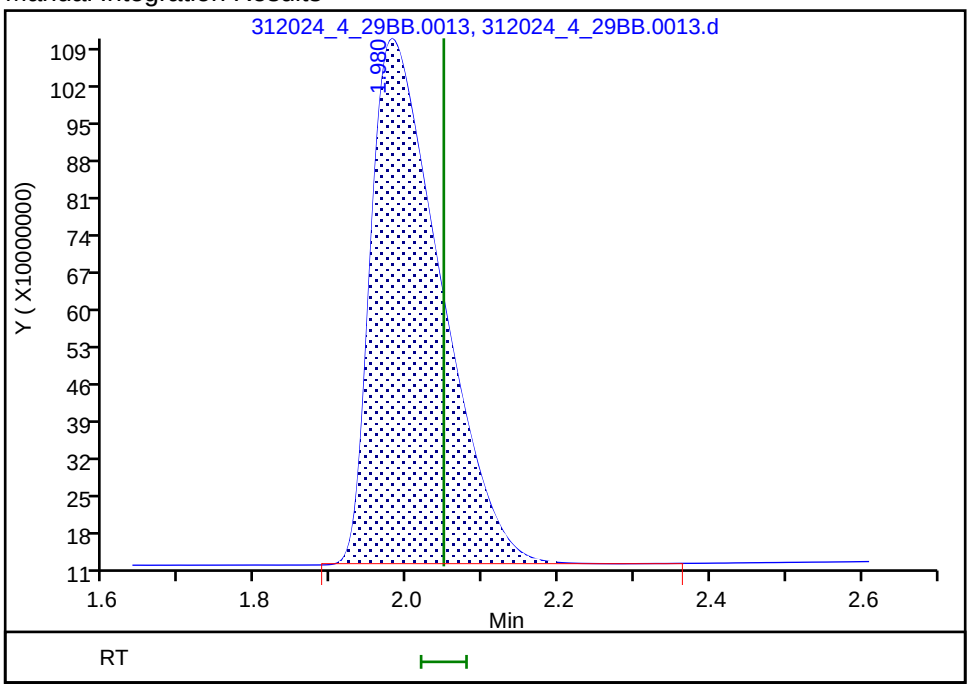
Not Detected
Expected RT: 2.05

Processing Integration Results



Manual Integration Results

RT: 1.98
Height: 986082668
Amount: 314249
Amount Units: ug/l



Reviewer: LXF2, 30-Apr-2024 04:03:43 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Calibration / Carbon dioxide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	HEIGHT
RF Rounding:	0

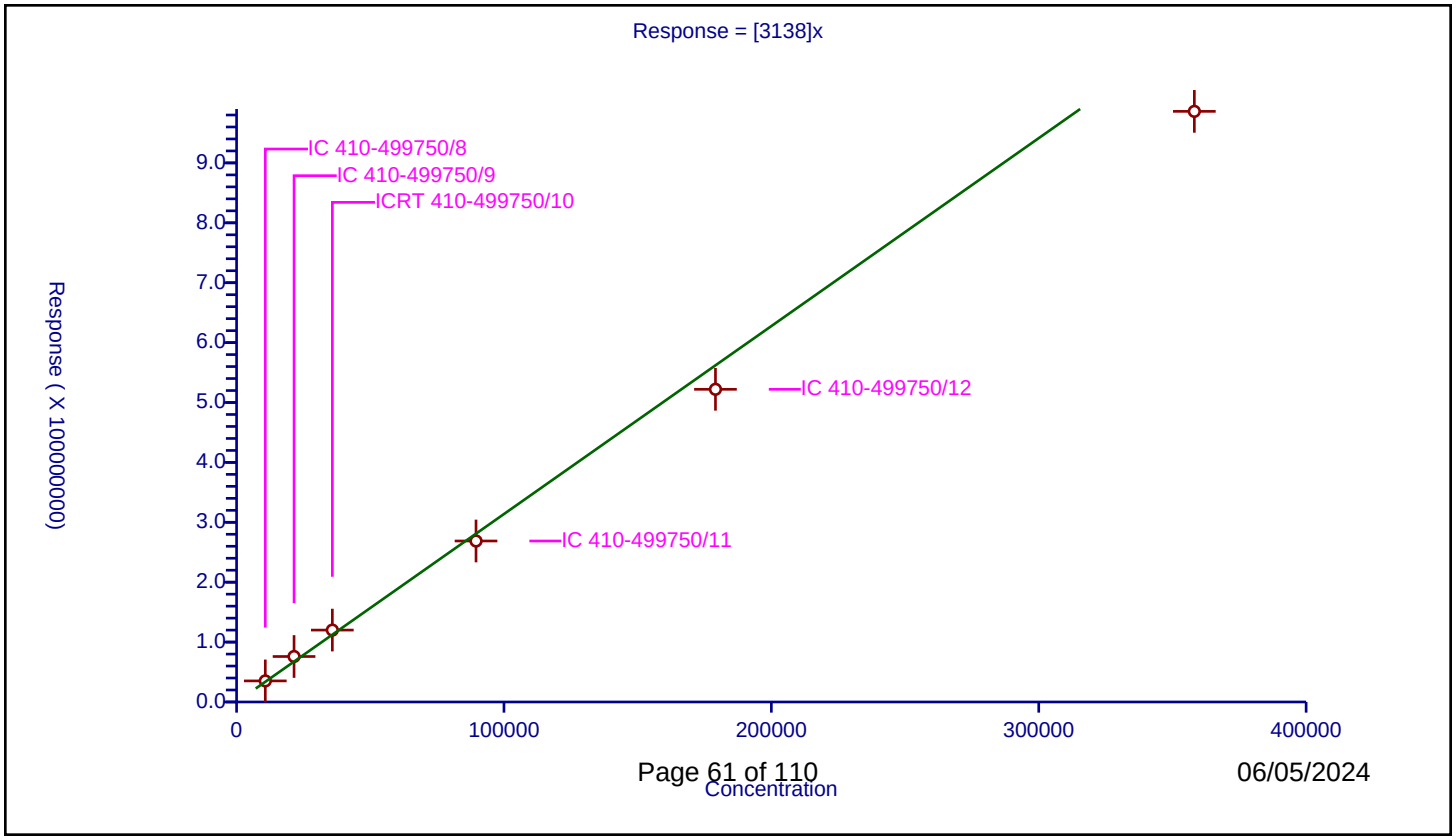
Curve Coefficients

Intercept:	0
Slope:	3138

Error Coefficients

Relative Standard Deviation:	9.4

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 410-499750/8	10746.0	35178219.0			3273.610553	Y
2	IC 410-499750/9	21492.0	75940683.0			3533.439559	Y
3	ICRT 410-499750/10	35820.0	120029586.0			3350.909715	Y
4	IC 410-499750/11	89550.0	268806379.0			3001.746276	Y
5	IC 410-499750/12	179100.0	522045301.0			2914.825801	Y
6	IC 410-499750/13	358200.0	986082668.0			2752.882937	Y



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-174036-1

SDG No.:

Lab Sample ID: ICV 410-499750/16 Calibration Date: 04/29/2024 17:01

Instrument ID: 19506-B Calib Start Date: 04/29/2024 15:57

GC Column: 19809 ID: 1.00(mm) Calib End Date: 04/29/2024 16:37

Lab File ID: 312024_4_29BB.0016.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Carbon dioxide	Ave	3138	3393		37900	35000	8.1	15.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-174036-1

SDG No.:

Lab Sample ID: ICV 410-499750/16
Calibration Date: 04/29/2024 17:01

Instrument ID: 19506-B
Calib Start Date: 04/29/2024 15:57

GC Column: 19809 ID: 1.00(mm)
Calib End Date: 04/29/2024 16:37

Lab File ID: 312024_4_29BB.0016.d
Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Carbon dioxide	2.05	2.02	2.08

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0016.d
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 29-Apr-2024 17:01:00 ALS Bottle#: 0 Worklist Smp#: 16
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 410-0112494-016
Operator ID: Instrument ID: 19506-B
Sublist:

Method: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\RSK_CO2_19506B.m
Limit Group: GCV - RSK175 CO2
Last Update: 30-Apr-2024 04:13:29 Calib Date: 29-Apr-2024 16:37:00
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d

Column 1 : ShinCarbon ST Microplacked GC (1.00 mm) Det: 0FIDA
Process Host: CTX1646

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.048	2.047	0.001	118784440H	35008	37855	

Reagents:

EPH_CO2ICV_00003 Amount Added: 320.00 Units: uL

Report Date: 30-Apr-2024 04:40:23 Chrom Revision: 2.3 26-Apr-2024 12:18:52

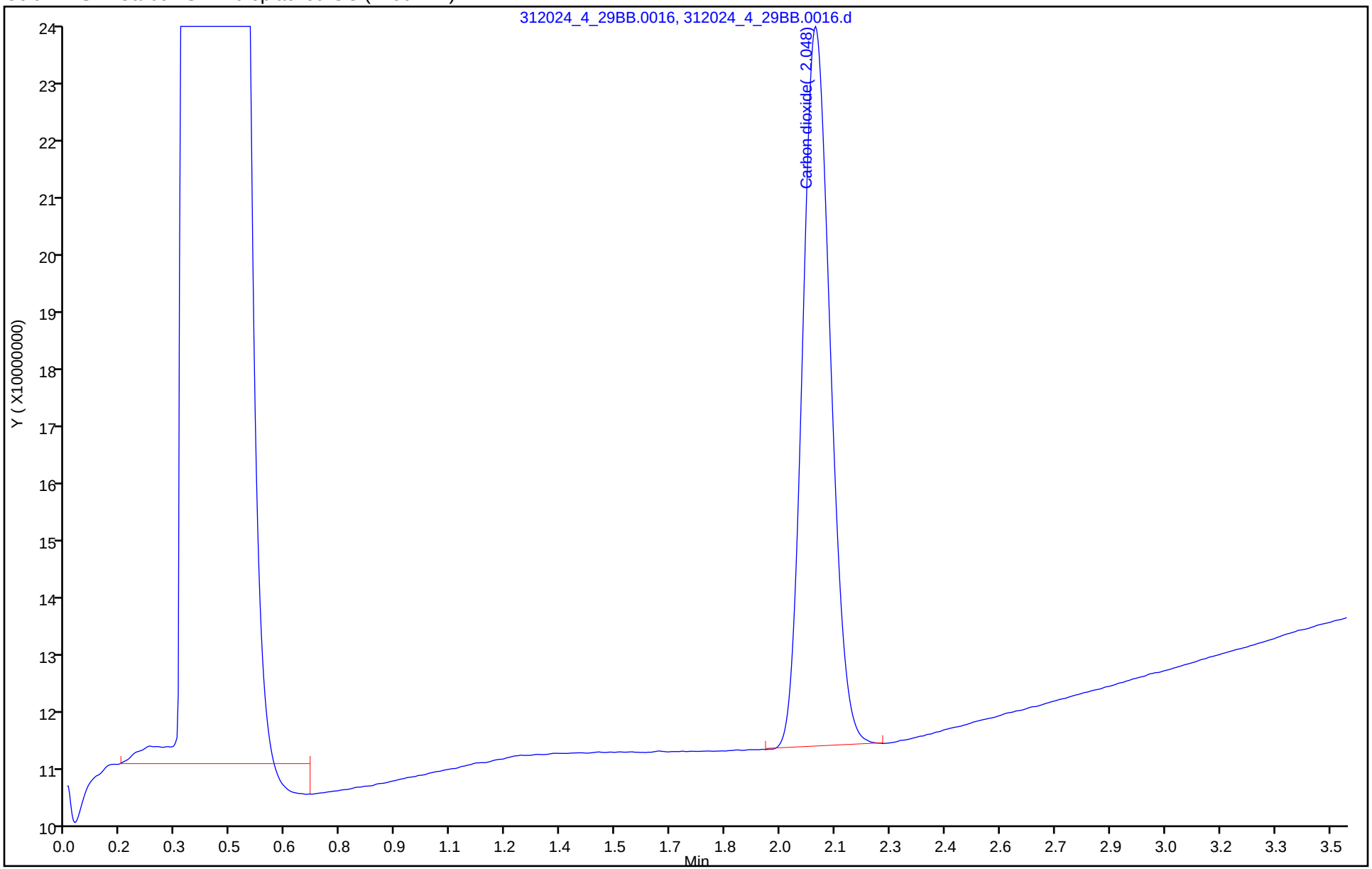
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Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0016.d

Injection Date:	29-Apr-2024 17:01:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	ICV			Worklist Smp#:	16
Client ID:					
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: ShinCarbon ST Microplacked GC (1.00 mm)



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-174036-1

SDG No.:

Lab Sample ID: CCVRT 410-512895/4 Calibration Date: 06/03/2024 09:57

Instrument ID: 19506-B Calib Start Date: 04/29/2024 15:57

GC Column: 19809 ID: 1.00(mm) Calib End Date: 04/29/2024 16:37

Lab File ID: 312024_6_3BB.0004.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Carbon dioxide	Ave	3138	3535		40300	35800	12.6	15.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-174036-1

SDG No.:

Lab Sample ID: CCVRT 410-512895/4 Calibration Date: 06/03/2024 09:57

Instrument ID: 19506-B Calib Start Date: 04/29/2024 15:57

GC Column: 19809 ID: 1.00(mm) Calib End Date: 04/29/2024 16:37

Lab File ID: 312024_6_3BB.0004.d Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Carbon dioxide	2.04	2.01	2.07

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240603-115596.b\312024_6_3BB.0004.d
Lims ID: ccvrt
Client ID:
Sample Type: CCVRT
Inject. Date: 03-Jun-2024 09:57:00 ALS Bottle#: 0 Worklist Smp#: 4
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 410-0115596-004
Operator ID: Instrument ID: 19506-B
Sublist: chrom-RSK_CO2_19506B*sub1

Method: \\chromfs\Lancaster\ChromData\19506-B\20240603-115596.b\RSK_CO2_19506B.m
Limit Group: GCV - RSK175 CO2
Last Update: 04-Jun-2024 04:04:42 Calib Date: 29-Apr-2024 16:37:00
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d

Column 1 : ShinCarbon ST Microplacked GC (1.00 mm) Det: 0FIDA
Process Host: CTX1618

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.037	2.037	0.000	126607045	H 35820	40348	

Reagents:

EPH_CO2MS_00006 Amount Added: 100.00 Units: uL

Report Date: 04-Jun-2024 04:04:42 Chrom Revision: 2.3 20-May-2024 22:00:34

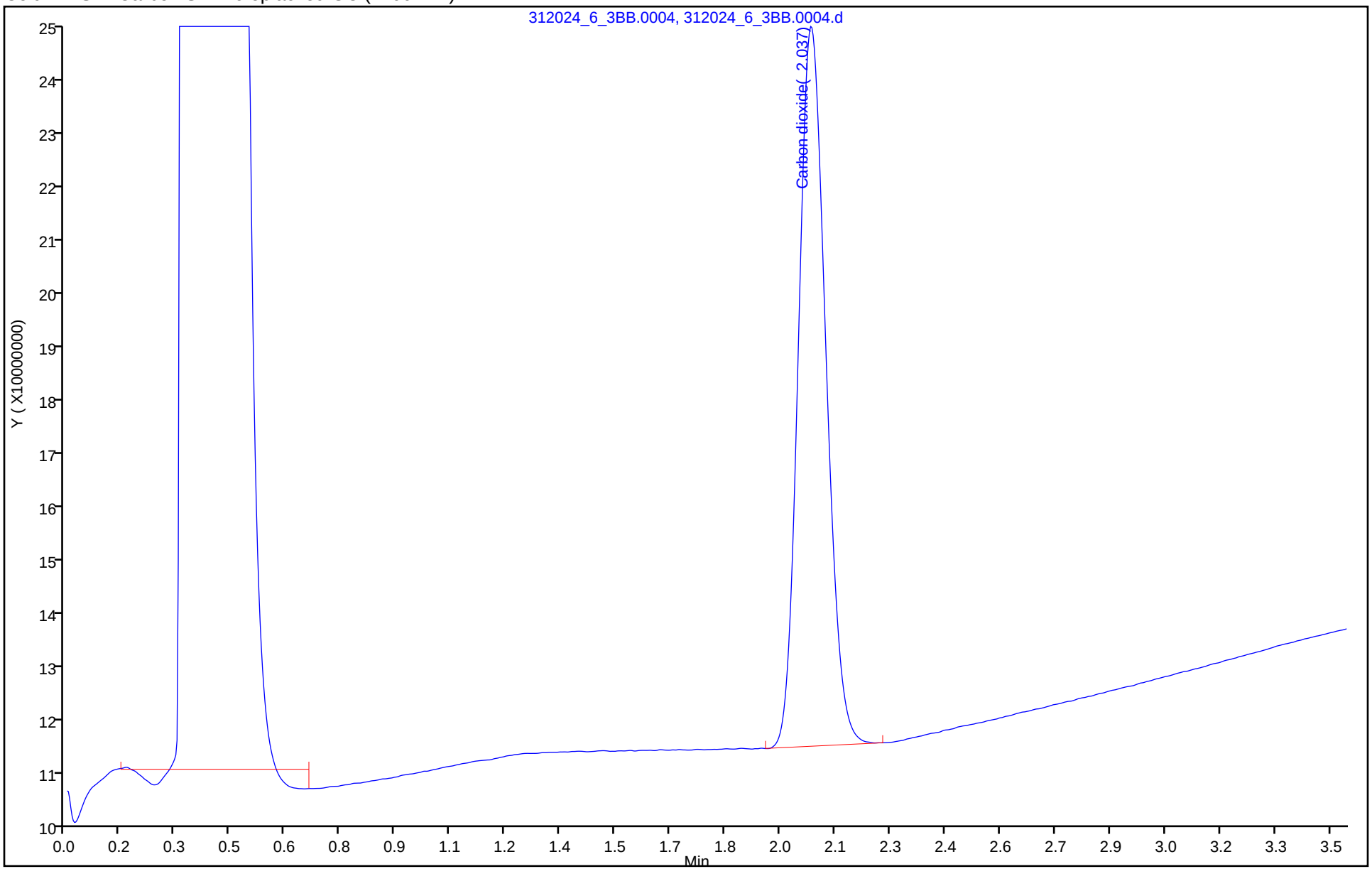
01336284

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240603-115596.b\312024_6_3BB.0004.d

Injection Date:	03-Jun-2024 09:57:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	ccvrt			Worklist Smp#:	4
Client ID:					
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: ShinCarbon ST Microplacked GC (1.00 mm)



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-174036-1

SDG No.:

Lab Sample ID: CCV 410-512895/15 Calibration Date: 06/03/2024 12:02

Instrument ID: 19506-B Calib Start Date: 04/29/2024 15:57

GC Column: 19809 ID: 1.00(mm) Calib End Date: 04/29/2024 16:37

Lab File ID: 312024_6_3BB.0015.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Carbon dioxide	Ave	3138	3270		37300	35800	4.2	15.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-174036-1

SDG No.:

Lab Sample ID: CCV 410-512895/15
Calibration Date: 06/03/2024 12:02

Instrument ID: 19506-B
Calib Start Date: 04/29/2024 15:57

GC Column: 19809 ID: 1.00(mm)
Calib End Date: 04/29/2024 16:37

Lab File ID: 312024_6_3BB.0015.d
Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Carbon dioxide	2.04	2.01	2.07

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240603-115596.b\312024_6_3BB.0015.d
Lims ID: ccv
Client ID:
Sample Type: CCV
Inject. Date: 03-Jun-2024 12:02:00 ALS Bottle#: 0 Worklist Smp#: 15
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 410-0115596-015
Operator ID: Instrument ID: 19506-B
Sublist: chrom-RSK_CO2_19506B*sub1

Method: \\chromfs\Lancaster\ChromData\19506-B\20240603-115596.b\RSK_CO2_19506B.m
Limit Group: GCV - RSK175 CO2
Last Update: 04-Jun-2024 04:04:45 Calib Date: 29-Apr-2024 16:37:00
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d

Column 1 : ShinCarbon ST Microplacked GC (1.00 mm) Det: 0FIDA
Process Host: CTX1618

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.037	2.037	0.000	117115186	H 35820	37323	

Reagents:

EPH_CO2MS_00006 Amount Added: 100.00 Units: uL

Report Date: 04-Jun-2024 04:04:46 Chrom Revision: 2.3 20-May-2024 22:00:34

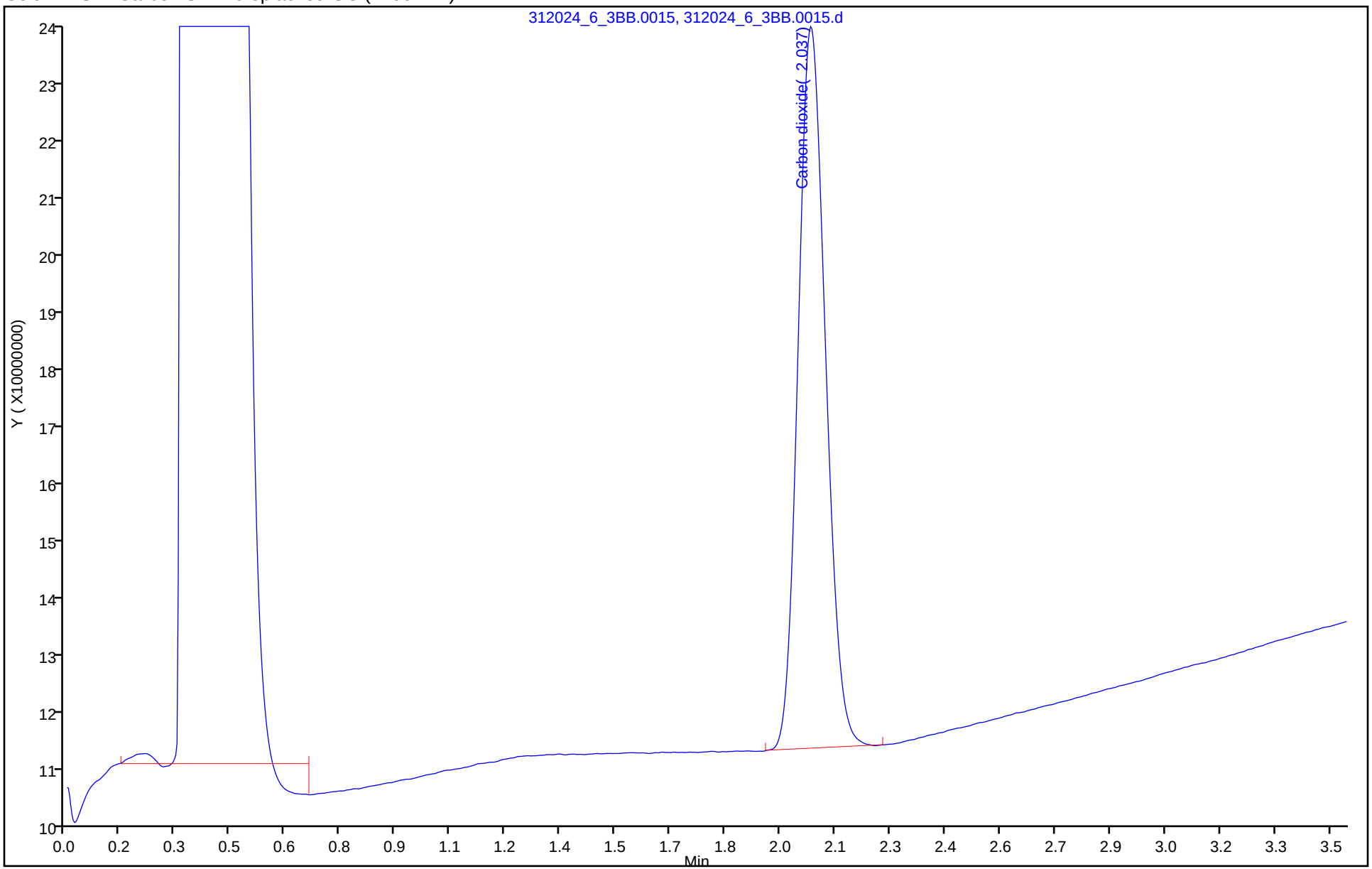
01336288

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240603-115596.b\312024_6_3BB.0015.d

Injection Date:	03-Jun-2024 12:02:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	ccv			Worklist Smp#:	15
Client ID:					
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: ShinCarbon ST Microplacked GC (1.00 mm)



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-174036-1

SDG No.:

Lab Sample ID: CCVRT 410-513353/4 Calibration Date: 06/04/2024 10:15

Instrument ID: 19506-B Calib Start Date: 04/29/2024 15:57

GC Column: 19809 ID: 1.00(mm) Calib End Date: 04/29/2024 16:37

Lab File ID: 312024_6_4BB.0004.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Carbon dioxide	Ave	3138	3601		41100	35800	14.8	15.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-174036-1

SDG No.:

Lab Sample ID: CCVRT 410-513353/4 Calibration Date: 06/04/2024 10:15

Instrument ID: 19506-B Calib Start Date: 04/29/2024 15:57

GC Column: 19809 ID: 1.00(mm) Calib End Date: 04/29/2024 16:37

Lab File ID: 312024_6_4BB.0004.d Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Carbon dioxide	2.04	2.01	2.07

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240604-115704.b\312024_6_4BB.0004.d
Lims ID: ccvrt
Client ID:
Sample Type: CCVRT
Inject. Date: 04-Jun-2024 10:15:00 ALS Bottle#: 0 Worklist Smp#: 4
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 410-0115704-004
Operator ID: Instrument ID: 19506-B
Sublist: chrom-RSK_CO2_19506B*sub1

Method: \\chromfs\Lancaster\ChromData\19506-B\20240604-115704.b\RSK_CO2_19506B.m
Limit Group: GCV - RSK175 CO2
Last Update: 05-Jun-2024 04:01:19 Calib Date: 29-Apr-2024 16:37:00
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d

Column 1 : ShinCarbon ST Microplacked GC (1.00 mm) Det: 0FIDA
Process Host: CTX1622

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.042	2.042	0.000	128998696	H 35820	41110	

Reagents:

EPH_CO2MS_00006 Amount Added: 100.00 Units: uL

Report Date: 05-Jun-2024 04:01:19 Chrom Revision: 2.3 20-May-2024 22:00:34

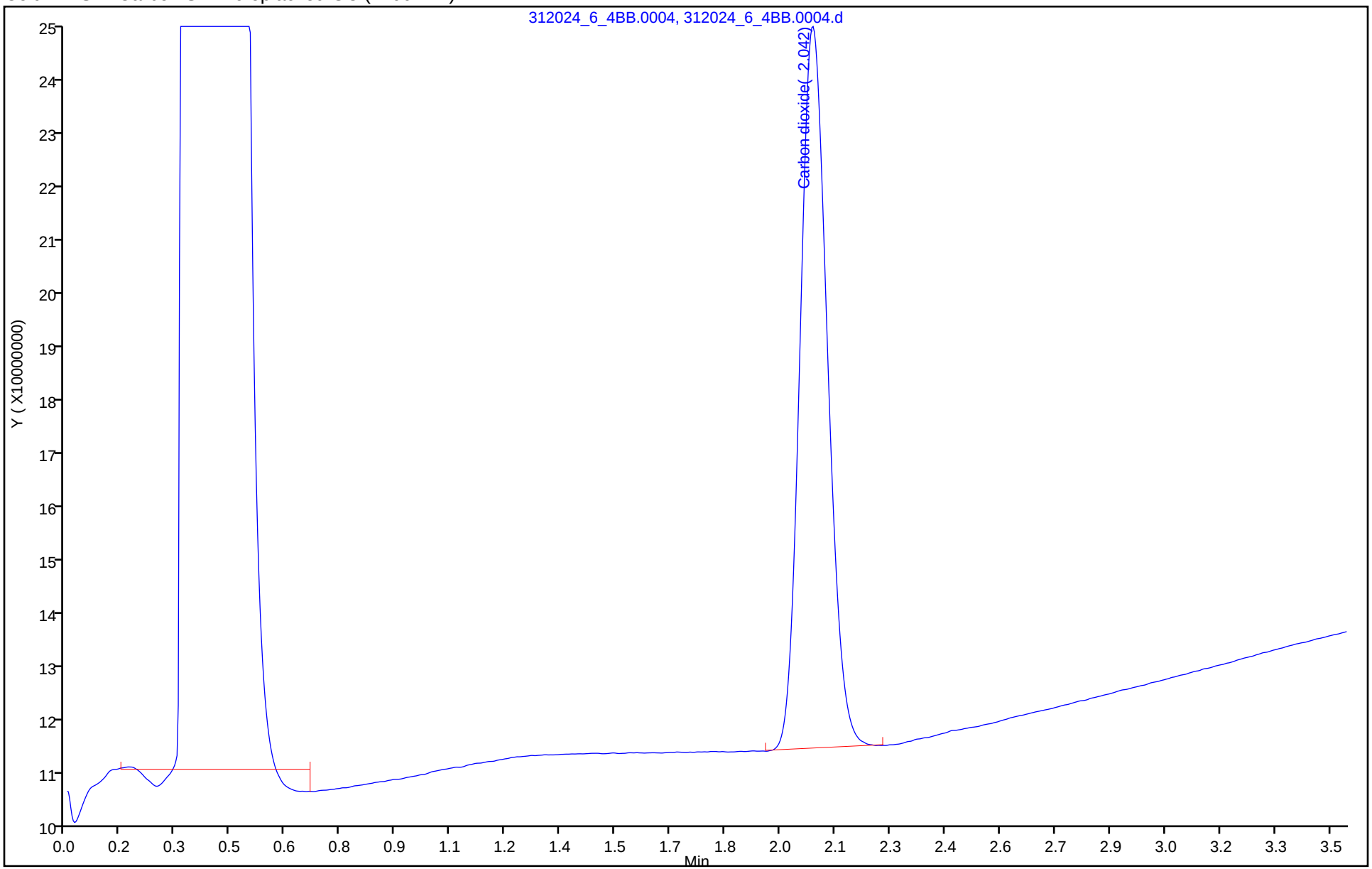
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Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240604-115704.b\312024_6_4BB.0004.d

Injection Date:	04-Jun-2024 10:15:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	ccvrt			Worklist Smp#:	4
Client ID:					
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: ShinCarbon ST Microplacked GC (1.00 mm)



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-174036-1

SDG No.:

Lab Sample ID: CCV 410-513353/15 Calibration Date: 06/04/2024 11:45

Instrument ID: 19506-B Calib Start Date: 04/29/2024 15:57

GC Column: 19809 ID: 1.00(mm) Calib End Date: 04/29/2024 16:37

Lab File ID: 312024_6_4BB.0015.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Carbon dioxide	Ave	3138	3412		38900	35800	8.7	15.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-174036-1

SDG No.:

Lab Sample ID: CCV 410-513353/15
Calibration Date: 06/04/2024 11:45

Instrument ID: 19506-B
Calib Start Date: 04/29/2024 15:57

GC Column: 19809 ID: 1.00(mm)
Calib End Date: 04/29/2024 16:37

Lab File ID: 312024_6_4BB.0015.d
Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Carbon dioxide	2.04	2.01	2.07

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240604-115704.b\312024_6_4BB.0015.d
Lims ID: ccv
Client ID:
Sample Type: CCV
Inject. Date: 04-Jun-2024 11:45:00 ALS Bottle#: 0 Worklist Smp#: 15
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 410-0115704-015
Operator ID: Instrument ID: 19506-B
Sublist: chrom-RSK_CO2_19506B*sub1

Method: \\chromfs\Lancaster\ChromData\19506-B\20240604-115704.b\RSK_CO2_19506B.m
Limit Group: GCV - RSK175 CO2
Last Update: 05-Jun-2024 04:01:24 Calib Date: 29-Apr-2024 16:37:00
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d

Column 1 : ShinCarbon ST Microplacked GC (1.00 mm) Det: 0FIDA
Process Host: CTX1622

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.042	2.042	0.000	122211568	H 35820	38947	

Reagents:

EPH_CO2MS_00006 Amount Added: 100.00 Units: uL

Report Date: 05-Jun-2024 04:01:24 Chrom Revision: 2.3 20-May-2024 22:00:34

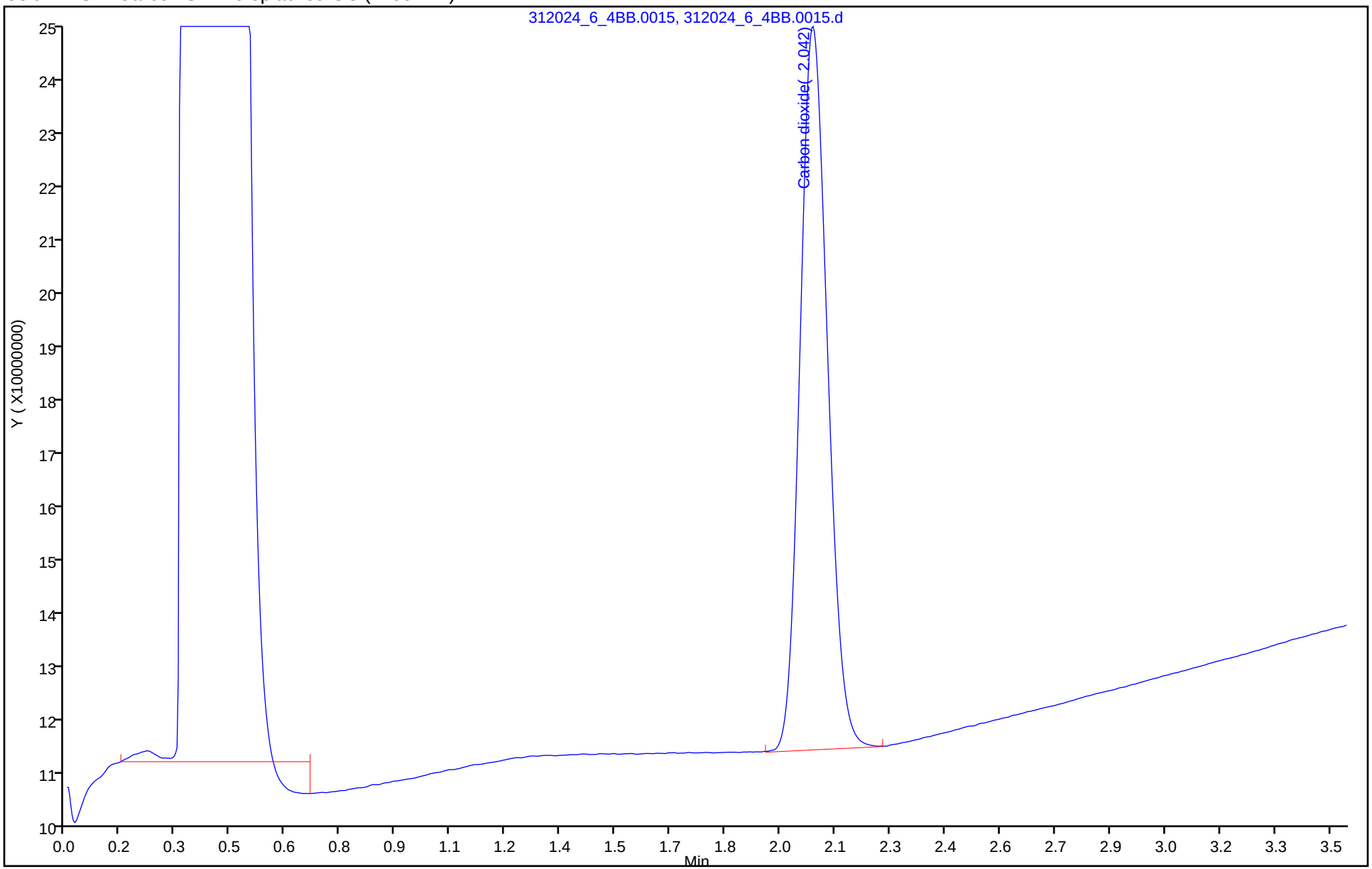
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Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240604-115704.b\312024_6_4BB.0015.d

Injection Date:	04-Jun-2024 11:45:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	ccv			Worklist Smp#:	15
Client ID:					
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: ShinCarbon ST Microplacked GC (1.00 mm)



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-174036-1

SDG No.:

Lab Sample ID: CCV 410-513353/19 Calibration Date: 06/04/2024 12:37

Instrument ID: 19506-B Calib Start Date: 04/29/2024 15:57

GC Column: 19809 ID: 1.00(mm) Calib End Date: 04/29/2024 16:37

Lab File ID: 312024_6_4BB.0019.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Carbon dioxide	Ave	3138	3352		38300	35800	6.8	15.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-174036-1

SDG No.:

Lab Sample ID: CCV 410-513353/19 Calibration Date: 06/04/2024 12:37

Instrument ID: 19506-B Calib Start Date: 04/29/2024 15:57

GC Column: 19809 ID: 1.00(mm) Calib End Date: 04/29/2024 16:37

Lab File ID: 312024_6_4BB.0019.d Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Carbon dioxide	2.04	2.01	2.07

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240604-115704.b\312024_6_4BB.0019.d
Lims ID: ccv
Client ID:
Sample Type: CCV
Inject. Date: 04-Jun-2024 12:37:00 ALS Bottle#: 0 Worklist Smp#: 19
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 410-0115704-019
Operator ID: Instrument ID: 19506-B
Sublist: chrom-RSK_CO2_19506B*sub1

Method: \\chromfs\Lancaster\ChromData\19506-B\20240604-115704.b\RSK_CO2_19506B.m
Limit Group: GCV - RSK175 CO2
Last Update: 05-Jun-2024 04:01:25 Calib Date: 29-Apr-2024 16:37:00
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d

Column 1 : ShinCarbon ST Microplacked GC (1.00 mm) Det: 0FIDA
Process Host: CTX1622

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.042	2.042	0.000	120084480	H 35820	38269	

Reagents:

EPH_CO2MS_00006 Amount Added: 100.00 Units: uL

Report Date: 05-Jun-2024 04:01:25 Chrom Revision: 2.3 20-May-2024 22:00:34

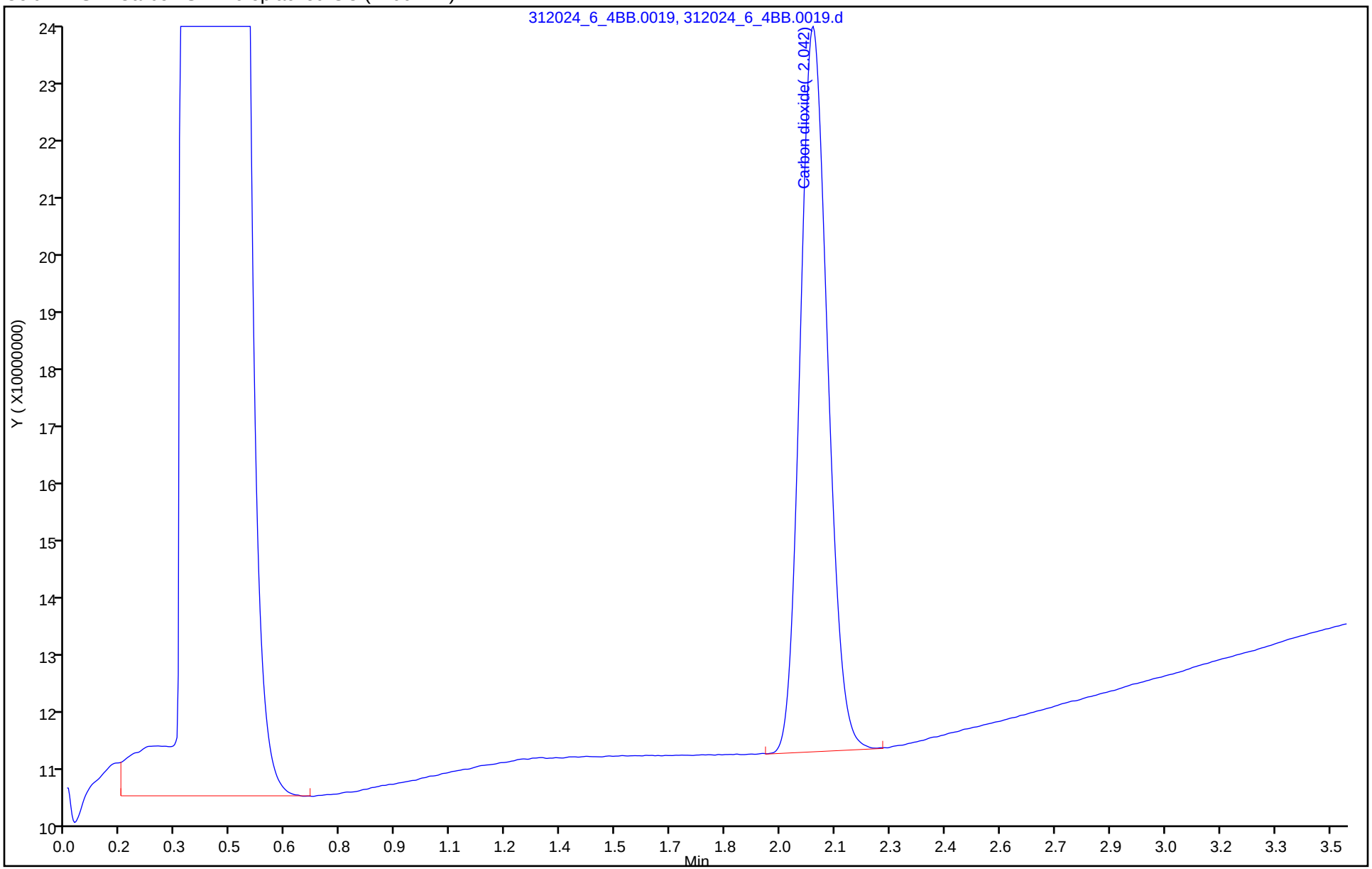
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Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240604-115704.b\312024_6_4BB.0019.d

Injection Date:	04-Jun-2024 12:37:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	ccv			Worklist Smp#:	19
Client ID:					
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: ShinCarbon ST Microplacked GC (1.00 mm)



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-174036-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 410-512911/1-A

Matrix: Water Lab File ID: 312024_6_3BB.0005.d

Analysis Method: RSK-175 Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 06/03/2024 10:18

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: 19809 ID: 1(mm)

Purge Volume: Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 512895 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
124-38-9	Carbon dioxide	5600	U	12000	11000	5600

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240603-115596.b\312024_6_3BB.0005.d
Lims ID: MB 410-512911/1-A
Client ID:
Sample Type: MB
Inject. Date: 03-Jun-2024 10:18:00 ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 410-0115596-005
Operator ID: Instrument ID: 19506-B

Method: \\chromfs\Lancaster\ChromData\19506-B\20240603-115596.b\RSK_CO2_19506B.m
Limit Group: GCV - RSK175 CO2
Last Update: 04-Jun-2024 04:04:42 Calib Date: 29-Apr-2024 16:37:00
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d

Column 1 : ShinCarbon ST Microplacked GC (1.00 mm) Det: 0FIDA
Process Host: CTX1618

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.045	2.037	0.008	3081763H		982.1	

Report Date: 04-Jun-2024 04:04:42 Chrom Revision: 2.3 20-May-2024 22:00:34

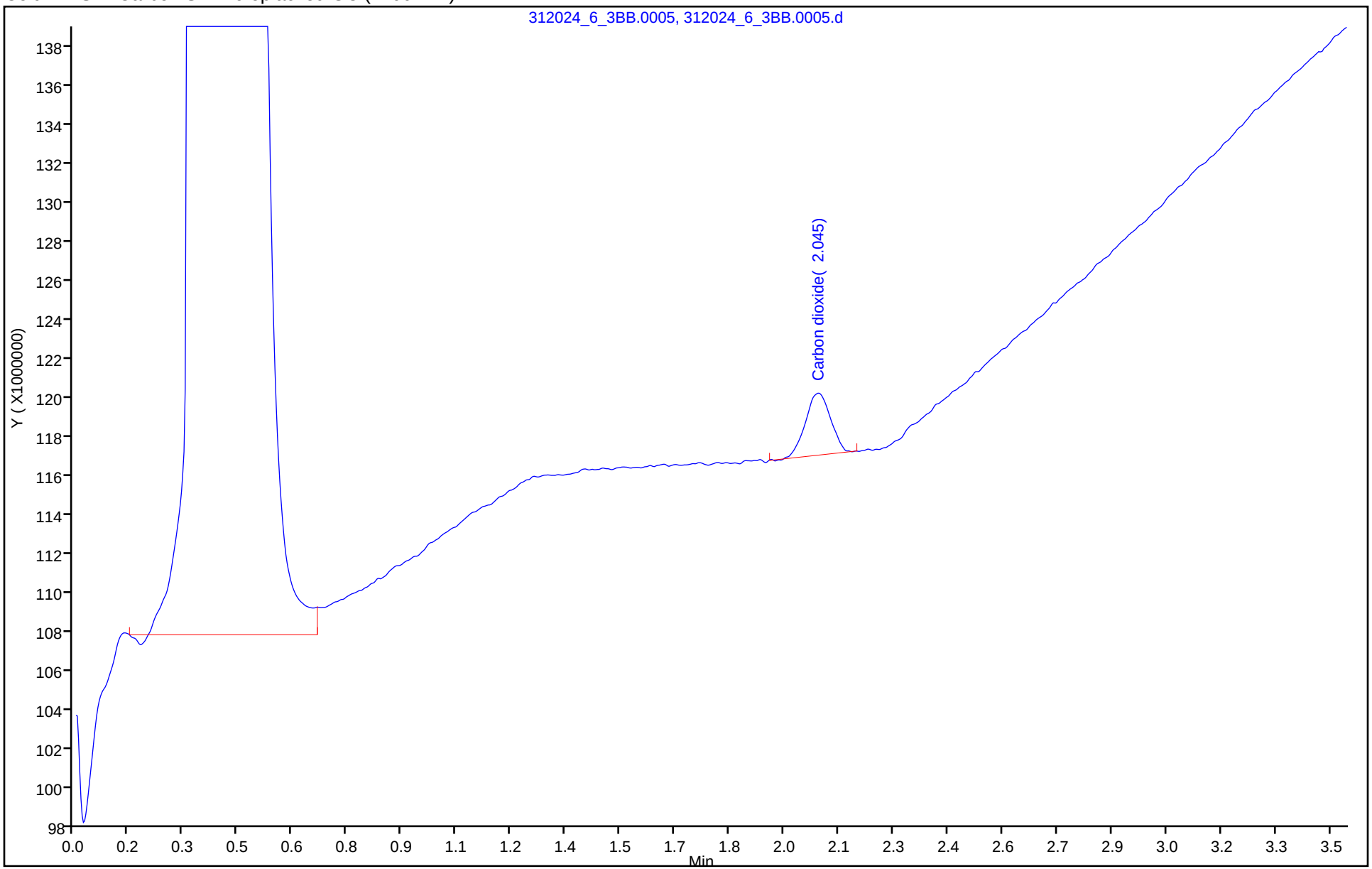
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Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240603-115596.b\312024_6_3BB.0005.d

Injection Date:	03-Jun-2024 10:18:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	MB 410-512911/1-A			Worklist Smp#:	5
Client ID:					
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: ShinCarbon ST Microplacked GC (1.00 mm)



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-174036-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 410-513397/1-A

Matrix: Water Lab File ID: 312024_6_4BB.0005.d

Analysis Method: RSK-175 Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 06/04/2024 10:27

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: 19809 ID: 1(mm)

Purge Volume: Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 513353 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
124-38-9	Carbon dioxide	5600	U	12000	11000	5600

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240604-115704.b\312024_6_4BB.0005.d
Lims ID: MB 410-513397/1-A
Client ID:
Sample Type: MB
Inject. Date: 04-Jun-2024 10:27:00 ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 410-0115704-005
Operator ID: Instrument ID: 19506-B

Method: \\chromfs\Lancaster\ChromData\19506-B\20240604-115704.b\RSK_CO2_19506B.m
Limit Group: GCV - RSK175 CO2
Last Update: 05-Jun-2024 04:01:19 Calib Date: 29-Apr-2024 16:37:00
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d

Column 1 : ShinCarbon ST Microplacked GC (1.00 mm) Det: 0FIDA
Process Host: CTX1622

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.050	2.042	0.008	3989536H		1271.4	

Report Date: 05-Jun-2024 04:01:20 Chrom Revision: 2.3 20-May-2024 22:00:34

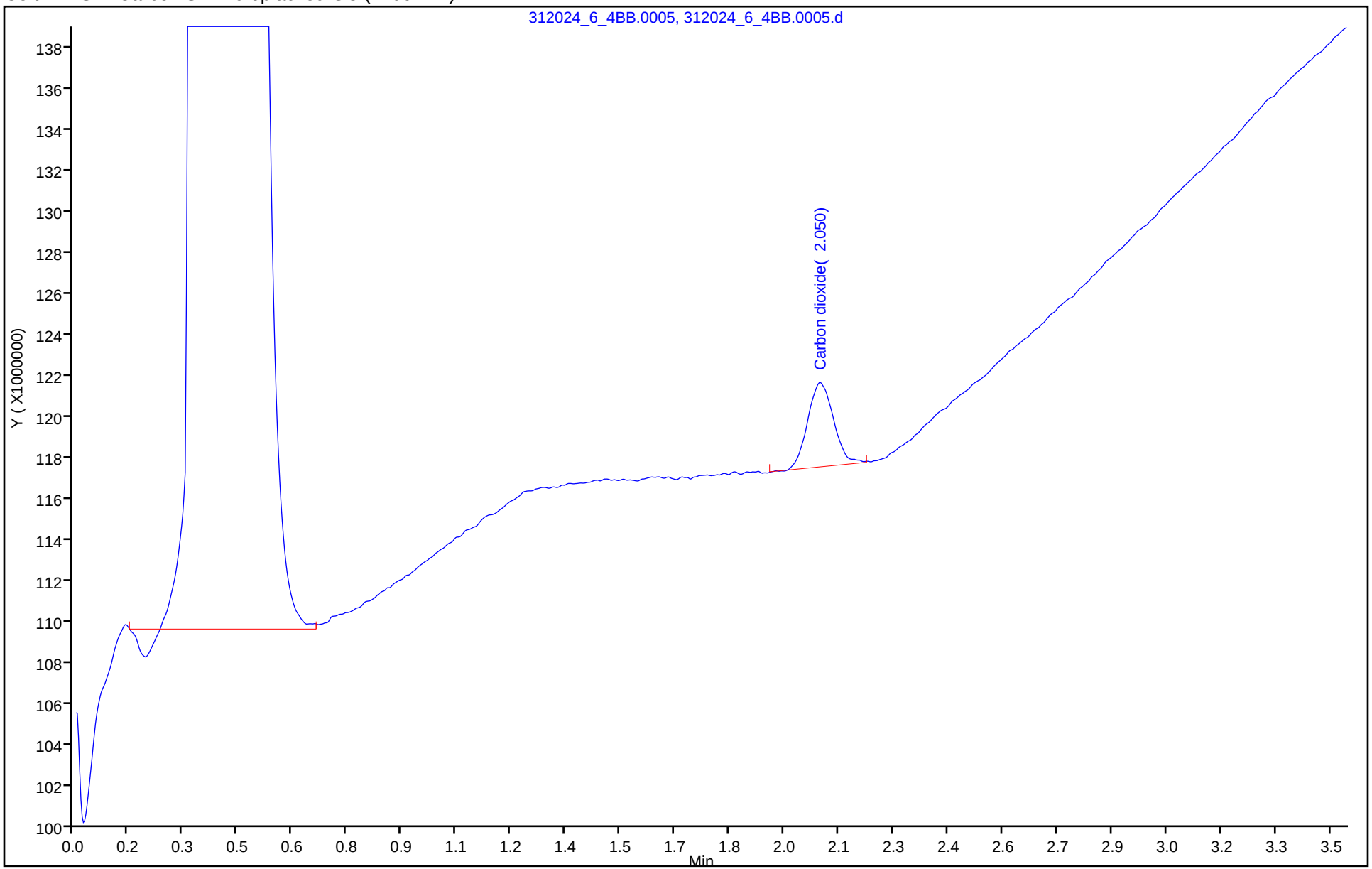
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Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240604-115704.b\312024_6_4BB.0005.d

Injection Date:	04-Jun-2024 10:27:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	MB 410-513397/1-A			Worklist Smp#:	5
Client ID:					
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: ShinCarbon ST Microplacked GC (1.00 mm)



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-174036-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 410-512911/2-A

Matrix: Water Lab File ID: 312024_6_3BB.0006.d

Analysis Method: RSK-175 Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 06/03/2024 10:26

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: 19809 ID: 1(mm)

Purge Volume: Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 512895 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
124-38-9	Carbon dioxide	38800		12000	11000	5600

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240603-115596.b\312024_6_3BB.0006.d
Lims ID: LCS 410-512911/2-A
Client ID:
Sample Type: LCS
Inject. Date: 03-Jun-2024 10:26:00 ALS Bottle#: 0 Worklist Smp#: 6
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 410-0115596-006
Operator ID: Instrument ID: 19506-B

Method: \\chromfs\Lancaster\ChromData\19506-B\20240603-115596.b\RSK_CO2_19506B.m
Limit Group: GCV - RSK175 CO2
Last Update: 04-Jun-2024 04:04:42 Calib Date: 29-Apr-2024 16:37:00
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d

Column 1 : ShinCarbon ST Microplacked GC (1.00 mm) Det: 0FIDA
Process Host: CTX1618

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.037	2.037	0.000	121608938	H 35820	38755	

Report Date: 04-Jun-2024 04:04:42 Chrom Revision: 2.3 20-May-2024 22:00:34

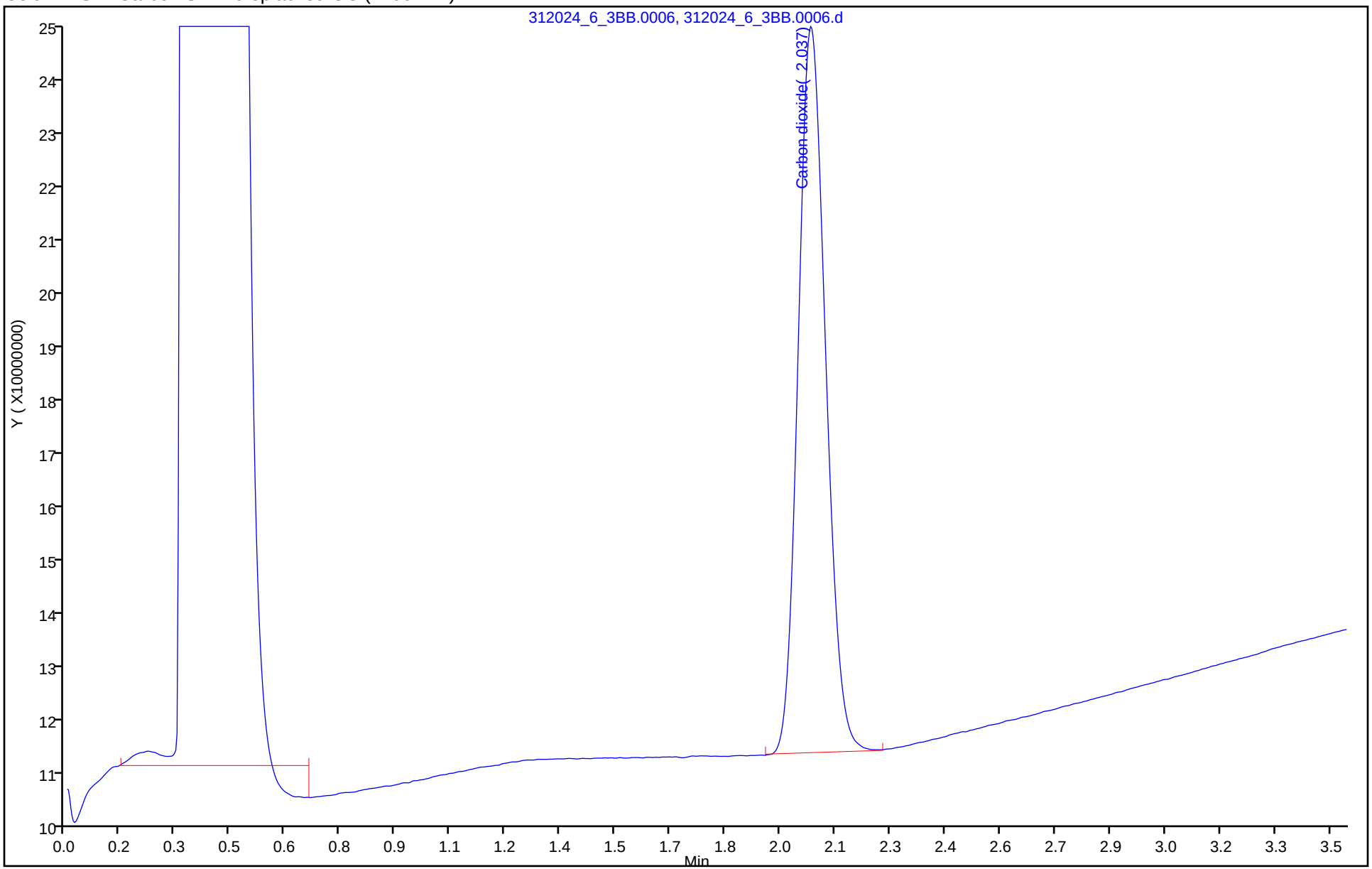
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Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240603-115596.b\312024_6_3BB.0006.d

Injection Date:	03-Jun-2024 10:26:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	LCS 410-512911/2-A			Worklist Smp#:	6
Client ID:					
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: ShinCarbon ST Microplacked GC (1.00 mm)



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-174036-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 410-513397/2-A

Matrix: Water Lab File ID: 312024_6_4BB.0006.d

Analysis Method: RSK-175 Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 06/04/2024 10:34

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: 19809 ID: 1(mm)

Purge Volume: Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 513353 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
124-38-9	Carbon dioxide	39600		12000	11000	5600

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240604-115704.b\312024_6_4BB.0006.d
Lims ID: LCS 410-513397/2-A
Client ID:
Sample Type: LCS
Inject. Date: 04-Jun-2024 10:34:00 ALS Bottle#: 0 Worklist Smp#: 6
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 410-0115704-006
Operator ID: Instrument ID: 19506-B

Method: \\chromfs\Lancaster\ChromData\19506-B\20240604-115704.b\RSK_CO2_19506B.m
Limit Group: GCV - RSK175 CO2
Last Update: 05-Jun-2024 04:01:19 Calib Date: 29-Apr-2024 16:37:00
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d

Column 1 : ShinCarbon ST Microplacked GC (1.00 mm) Det: 0FIDA
Process Host: CTX1622

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.041	2.042	-0.001	124381000	H 35820	39638	

Report Date: 05-Jun-2024 04:01:20 Chrom Revision: 2.3 20-May-2024 22:00:34

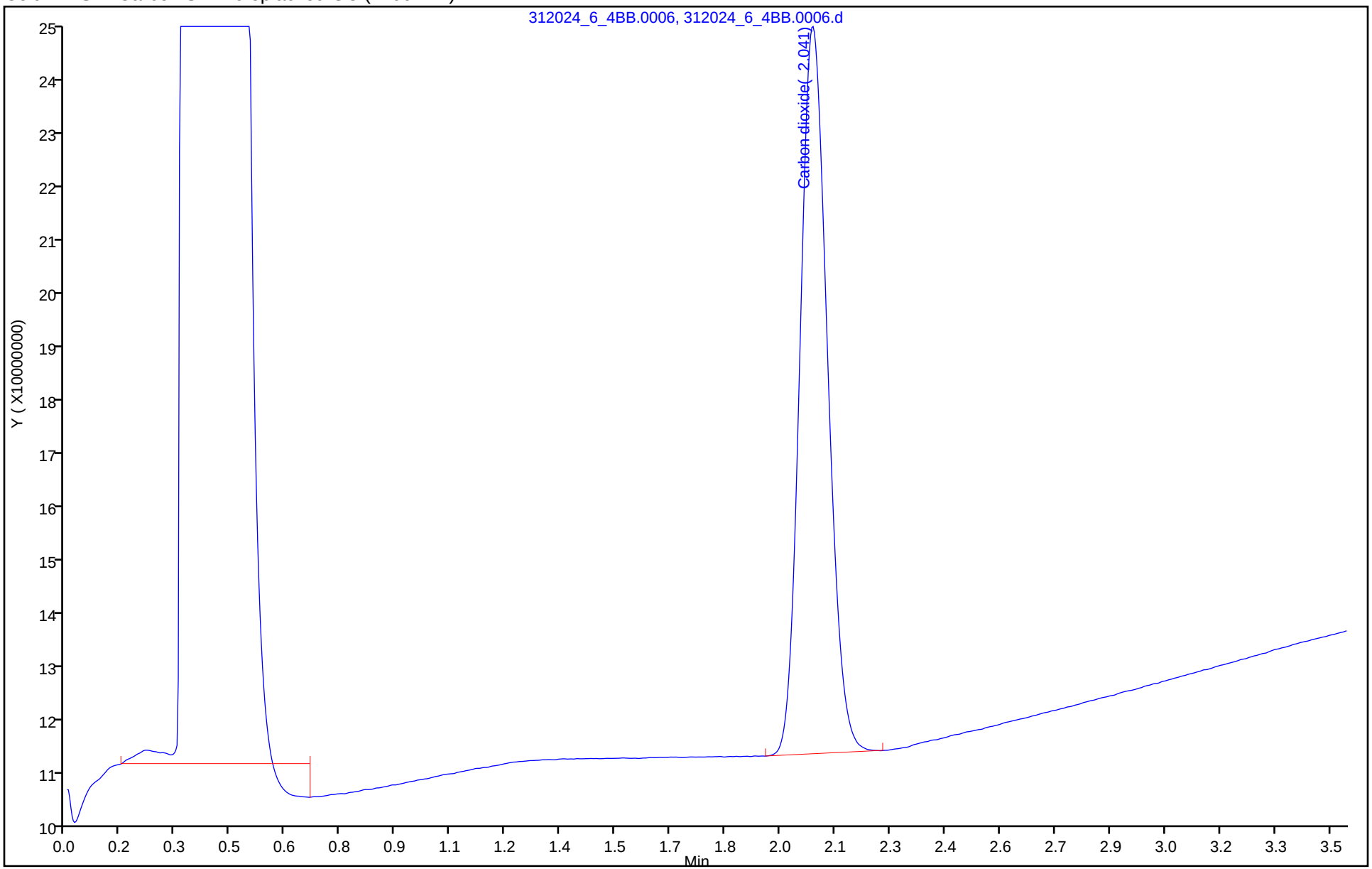
01336312

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240604-115704.b\312024_6_4BB.0006.d

Injection Date:	04-Jun-2024 10:34:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	LCS 410-513397/2-A			Worklist Smp#:	6
Client ID:					
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: ShinCarbon ST Microplacked GC (1.00 mm)



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-174036-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 410-513397/3-A

Matrix: Water Lab File ID: 312024_6_4BB.0007.d

Analysis Method: RSK-175 Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 06/04/2024 10:42

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: 19809 ID: 1(mm)

Purge Volume: Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 513353 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
124-38-9	Carbon dioxide	40200		12000	11000	5600

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240604-115704.b\312024_6_4BB.0007.d
Lims ID: LCSD 410-513397/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 04-Jun-2024 10:42:00 ALS Bottle#: 0 Worklist Smp#: 7
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 410-0115704-007
Operator ID: Instrument ID: 19506-B

Method: \\chromfs\Lancaster\ChromData\19506-B\20240604-115704.b\RSK_CO2_19506B.m
Limit Group: GCV - RSK175 CO2
Last Update: 05-Jun-2024 04:01:19 Calib Date: 29-Apr-2024 16:37:00
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d

Column 1 : ShinCarbon ST Microplacked GC (1.00 mm) Det: 0FIDA
Process Host: CTX1622

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.042	2.042	0.000	126231267	H 35820	40228	

Report Date: 05-Jun-2024 04:01:21 Chrom Revision: 2.3 20-May-2024 22:00:34

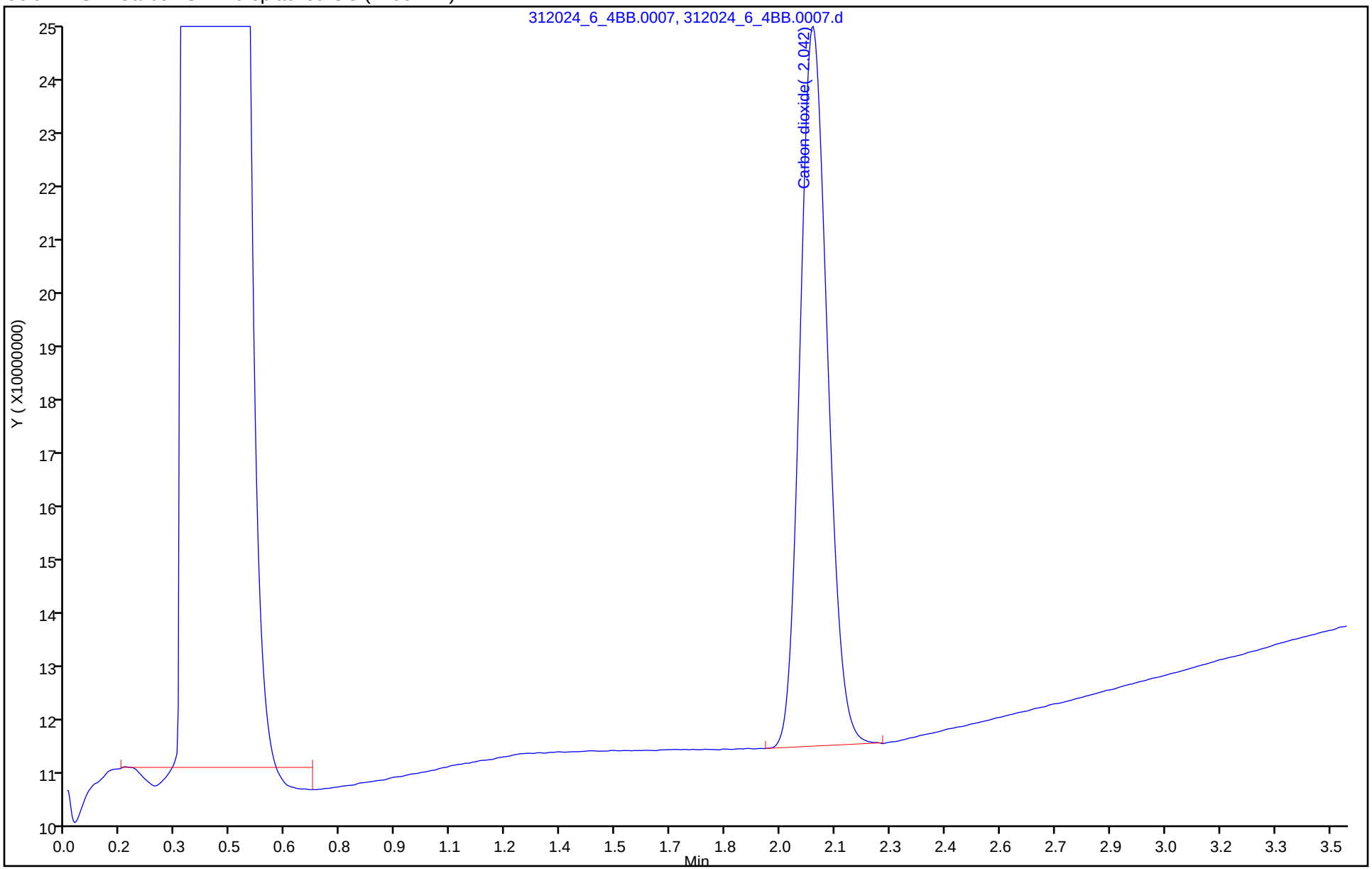
01336315

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240604-115704.b\312024_6_4BB.0007.d

Injection Date:	04-Jun-2024 10:42:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	LCSD 410-513397/3-A			Worklist Smp#:	7
Client ID:					
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: ShinCarbon ST Microplacked GC (1.00 mm)



GC VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC

Job No.: 410-174036-1

SDG No.:

Instrument ID: 19506-B

Start Date: 04/29/2024 15:50

Analysis Batch Number: 499750

End Date: 04/29/2024 18:35

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
PIBLK 410-499750/7		04/29/2024 15:50	1		19809 1(mm)
IC 410-499750/8		04/29/2024 15:57	1	312024_4_29BB.0008.d	19809 1(mm)
IC 410-499750/9		04/29/2024 16:06	1	312024_4_29BB.0009.d	19809 1(mm)
ICRT 410-499750/10		04/29/2024 16:13	1	312024_4_29BB.0010.d	19809 1(mm)
IC 410-499750/11		04/29/2024 16:21	1	312024_4_29BB.0011.d	19809 1(mm)
IC 410-499750/12		04/29/2024 16:29	1	312024_4_29BB.0012.d	19809 1(mm)
IC 410-499750/13		04/29/2024 16:37	1	312024_4_29BB.0013.d	19809 1(mm)
PIBLK 410-499750/14		04/29/2024 16:45	1		19809 1(mm)
ICVL 410-499750/15		04/29/2024 16:53	1		19809 1(mm)
ICV 410-499750/16		04/29/2024 17:01	1	312024_4_29BB.0016.d	19809 1(mm)
CCV 410-499750/17		04/29/2024 17:09	1		19809 1(mm)
ZZZZZ		04/29/2024 17:17	1		19809 1(mm)
ZZZZZ		04/29/2024 17:24	1		19809 1(mm)
ZZZZZ		04/29/2024 17:32	1		19809 1(mm)
CCV 410-499750/28		04/29/2024 18:35	1		19809 1(mm)

GC VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-174036-1

SDG No.:

Instrument ID: 19506-B Start Date: 06/03/2024 09:57

Analysis Batch Number: 512895 End Date: 06/03/2024 16:03

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVRT 410-512895/4		06/03/2024 09:57	1	312024_6_3BB.0004.d	19809 1(mm)
MB 410-512911/1-A		06/03/2024 10:18	1	312024_6_3BB.0005.d	19809 1(mm)
LCS 410-512911/2-A		06/03/2024 10:26	1	312024_6_3BB.0006.d	19809 1(mm)
410-174036-1	35AWW19_052324	06/03/2024 11:00	1	312024_6_3BB.0007.d	19809 1(mm)
410-174036-2	LHSMW07_052324	06/03/2024 11:07	1	312024_6_3BB.0008.d	19809 1(mm)
ZZZZZ		06/03/2024 11:16	1		19809 1(mm)
ZZZZZ		06/03/2024 11:23	1		19809 1(mm)
410-174036-5	35AWW23_052324	06/03/2024 11:31	1	312024_6_3BB.0011.d	19809 1(mm)
410-174036-6	35AWW06_052324	06/03/2024 11:39	1	312024_6_3BB.0012.d	19809 1(mm)
ZZZZZ		06/03/2024 11:47	1		19809 1(mm)
ZZZZZ		06/03/2024 11:55	1		19809 1(mm)
CCV 410-512895/15		06/03/2024 12:02	1	312024_6_3BB.0015.d	19809 1(mm)
ZZZZZ		06/03/2024 12:23	1		19809 1(mm)
ZZZZZ		06/03/2024 12:30	1		19809 1(mm)
ZZZZZ		06/03/2024 12:39	1		19809 1(mm)
ZZZZZ		06/03/2024 12:46	1		19809 1(mm)
ZZZZZ		06/03/2024 12:54	1		19809 1(mm)
ZZZZZ		06/03/2024 13:02	1		19809 1(mm)
ZZZZZ		06/03/2024 13:10	1		19809 1(mm)
CCV 410-512895/23		06/03/2024 13:17	1		19809 1(mm)
ZZZZZ		06/03/2024 13:25	1		19809 1(mm)
ZZZZZ		06/03/2024 13:33	1		19809 1(mm)
ZZZZZ		06/03/2024 13:41	1		19809 1(mm)
ZZZZZ		06/03/2024 13:49	1		19809 1(mm)
ZZZZZ		06/03/2024 13:57	1		19809 1(mm)
ZZZZZ		06/03/2024 14:05	1		19809 1(mm)
ZZZZZ		06/03/2024 14:12	1		19809 1(mm)
ZZZZZ		06/03/2024 14:20	1		19809 1(mm)
ZZZZZ		06/03/2024 14:28	1		19809 1(mm)
ZZZZZ		06/03/2024 14:41	1		19809 1(mm)
CCV 410-512895/34		06/03/2024 14:49	1		19809 1(mm)
ZZZZZ		06/03/2024 14:57	1		19809 1(mm)
ZZZZZ		06/03/2024 15:05	1		19809 1(mm)
ZZZZZ		06/03/2024 15:13	1		19809 1(mm)
ZZZZZ		06/03/2024 15:22	1		19809 1(mm)
ZZZZZ		06/03/2024 15:30	1		19809 1(mm)
ZZZZZ		06/03/2024 15:38	1		19809 1(mm)
ZZZZZ		06/03/2024 15:46	1		19809 1(mm)
ZZZZZ		06/03/2024 15:54	1		19809 1(mm)
CCV 410-512895/43		06/03/2024 16:03	1		19809 1(mm)

RSK-175

GC VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-174036-1

SDG No.:

Instrument ID: 19506-B Start Date: 06/04/2024 10:15

Analysis Batch Number: 513353 End Date: 06/04/2024 12:37

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVRT 410-513353/4		06/04/2024 10:15	1	312024_6_4BB.0004.d	19809 1(mm)
MB 410-513397/1-A		06/04/2024 10:27	1	312024_6_4BB.0005.d	19809 1(mm)
LCS 410-513397/2-A		06/04/2024 10:34	1	312024_6_4BB.0006.d	19809 1(mm)
LCSD 410-513397/3-A		06/04/2024 10:42	1	312024_6_4BB.0007.d	19809 1(mm)
ZZZZZ		06/04/2024 10:50	1		19809 1(mm)
ZZZZZ		06/04/2024 10:58	1		19809 1(mm)
ZZZZZ		06/04/2024 11:06	1		19809 1(mm)
ZZZZZ		06/04/2024 11:14	1		19809 1(mm)
ZZZZZ		06/04/2024 11:21	1		19809 1(mm)
ZZZZZ		06/04/2024 11:29	1		19809 1(mm)
ZZZZZ		06/04/2024 11:37	1		19809 1(mm)
CCV 410-513353/15		06/04/2024 11:45	1	312024_6_4BB.0015.d	19809 1(mm)
ZZZZZ		06/04/2024 12:13	1		19809 1(mm)
410-174036-3	35AWW20_052324	06/04/2024 12:21	10	312024_6_4BB.0017.d	19809 1(mm)
410-174036-4	35AWW11_052324	06/04/2024 12:29	10	312024_6_4BB.0018.d	19809 1(mm)
CCV 410-513353/19		06/04/2024 12:37	1	312024_6_4BB.0019.d	19809 1(mm)

GC VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-174036-1

SDG No.:

Batch Number: 499750 Batch Start Date: 04/29/24 15:50 Batch Analyst: Kennedy, Johanna C

Batch Method: RSK-175 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	EPH_CO2ICV 00003	EPH_CO2MS 00006		
IC 410-499750/8		RSK-175			5 mL	5 mL		30 uL		
IC 410-499750/9		RSK-175			5 mL	5 mL		60 uL		
ICRT 410-499750/10		RSK-175			5 mL	5 mL		100 uL		
IC 410-499750/11		RSK-175			5 mL	5 mL		250 uL		
IC 410-499750/12		RSK-175			5 mL	5 mL		500 uL		
IC 410-499750/13		RSK-175			5 mL	5 mL		1000 uL		
ICV 410-499750/16		RSK-175			5 mL	5 mL	320 uL			

Batch Notes	
Henry Law Calculation Spreadsheet	yes

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-174036-1

SDG No.:

Batch Number: 512911 Batch Start Date: 06/03/24 09:53 Batch Analyst: Omorogbe, Malachi

Batch Method: RSK-175 Batch End Date: 06/03/24 10:50

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	Initial pH	InitialAmount	FinalAmount	Headspace	EPH_CO2MS 00006	AnalysisComment
MB 410-512911/1		RSK-175, RSK-175				5 mL	5 mL			
LCS 410-512911/2		RSK-175, RSK-175				5 mL	5 mL		0.1 mL	
410-174036-A-1	35AWW19_052324	RSK-175, RSK-175	Water	T	6 SU	5 mL	5 mL	No		ph 6
410-174036-A-2	LHSMW07_052324	RSK-175, RSK-175	Water	T	7 SU	5 mL	5 mL	No		
410-174036-A-5	35AWW23_052324	RSK-175, RSK-175	Water	T	7 SU	5 mL	5 mL	No		
410-174036-A-6	35AWW06_052324	RSK-175, RSK-175	Water	T	7 SU	5 mL	5 mL	No		

Batch Notes	
Pipette/Syringe/Dispenser ID	7105
pH Indicator ID	10BDH5131

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-174036-1

SDG No.:

Batch Number: 513397 Batch Start Date: 06/04/24 10:14 Batch Analyst: Omorogbe, Malachi

Batch Method: RSK-175 Batch End Date: 06/04/24 10:37

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	Initial pH	InitialAmount	FinalAmount	Headspace	EPH_CO2MS 00006	AnalysisComment
MB 410-513397/1		RSK-175, RSK-175				5 mL	5 mL			
LCS 410-513397/2		RSK-175, RSK-175				5 mL	5 mL		0.1 mL	
LCSD 410-513397/3		RSK-175, RSK-175				5 mL	5 mL		0.1 mL	
410-174036-B-3	35AWW20_052324	RSK-175, RSK-175	Water	T	6 SU	5 mL	5 mL	No		DF10. ph 6
410-174036-B-4	35AWW11_052324	RSK-175, RSK-175	Water	T	6 SU	5 mL	5 mL	No		DF10. ph 6

Batch Notes	
Pipette/Syringe/Dispenser ID	7105
pH Indicator ID	10BDH5131

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

410-174036 Chain of Custody

10450 Stancliff Rd, Ste 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

Subcontract Chain of Custody

SAMPLING STATE: **Texas** **COC ID:** **25841**

SUBCONTRACT TO:

Eurofins Lancaster Laboratories Envt Testing
2425 New Holland Pike
Lancaster, PA 17601 **Phone:** +1 717 656 2300

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	Luis.Aguilar
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	luis.aguilar@alsglobal.com
Alternate Contact:	Jumoke M. Lawal
Email:	jumoke.lawal@alsglobal.com

INVOICE INFORMATION:

Company:	ALS Houston
Contact:	Accounts Payable
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Reference:	HS24051535
TSR:	Sonia West

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS24051535-01**	**35AWW19_052324**	**Groundwater**	**23 May 2024 07:40**
	RSK-CO2; Level II & IV, DoD, Equ_APTIM_Longhorn			10 Jun 2024
2.	**HS24051535-02**	**LHSMW07_052324**	**Groundwater**	**23 May 2024 08:30**
	RSK-CO2; Level II & IV, DoD, Equ_APTIM_Longhorn			10 Jun 2024
3.	**HS24051535-03**	**35AWW20_052324**	**Groundwater**	**23 May 2024 09:20**
	RSK-CO2; Level II & IV, DoD, Equ_APTIM_Longhorn			10 Jun 2024
4.	**HS24051535-04**	**35AWW11_052324**	**Groundwater**	**23 May 2024 10:10**
	RSK-CO2; Level II & IV, DoD, Equ_APTIM_Longhorn			10 Jun 2024
5.	**HS24051535-05**	**35AWW23_052324**	**Groundwater**	**23 May 2024 11:00**
	RSK-CO2; Level II & IV, DoD, Equ_APTIM_Longhorn			10 Jun 2024
6.	**HS24051535-06**	**35AWW06_052324**	**Groundwater**	**23 May 2024 11:50**
	RSK-CO2; Level II & IV, DoD, Equ_APTIM_Longhorn			10 Jun 2024

Comments: Please analyze for the analysis listed above.
Send report to the emails shown above.

QC Level: DOD IV (DoD Data Package)

NJ

Subcontract Chain of Custody

SAMPLING STATE: ~~Texas~~ **COC ID: 25841**

Relinquished By: _____ Date/Time: 5/30/24 1900

Received By: _____ Date/Time: 5/31/24 1015

Cooler ID(s): _____ Temperature(s): R: 4.0 C: 3.7

NJ

Login Sample Receipt Checklist

Client: ALS Group USA, Corp

Job Number: 410-174036-1

Login Number: 174036
List Number: 1
Creator: Santiago, Nathaniel

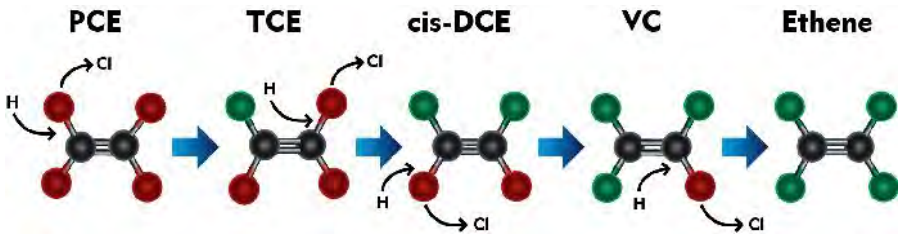
List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	True	

DHC Interpretation

Dehalococcoides 16S rRNA gene (qDHC)

Under anaerobic conditions, tetrachloroethene (PCE) and trichloroethene (TCE) can undergo sequential reductive dechlorination through the daughter products *cis*-dichloroethene (*cis*-DCE) and vinyl chloride to nontoxic ethene (1,2).



While a number of bacterial cultures capable of utilizing PCE and TCE as growth supporting electron acceptors have been isolated (3-7), *Dehalococcoides* spp. may be the most important because they are the only bacterial group that has been isolated to date which is capable of complete reductive dechlorination of PCE to ethene (8). In fact, the presence of *Dehalococcoides* spp. has been associated with complete dechlorination to ethene at sites across North America and Europe (9).

Status	*Dehalococcoides spp.*	Observation
	**≥ 10^4** (cells/mL)	Lu et al. proposed that a concentration of 1 x 10^4 DHC cells/mL could be used as a screening criterion to identify sites where reductive dechlorination will yield a generally useful biodegradation rate (10). Similarly, in an internal study conducted with nearly 1000 groundwater samples obtained from sites across the US, ethene production was observed in approximately 80% of samples in which CENSUS® qDHC results were greater than or equal to 10^4 DHC cells/mL.
	**10^1 to < 10^4** (cells/mL)	When vinyl chloride reductase genes (See DHC functional genes discussion below) are also detected, complete reductive dechlorination of PCE and TCE to ethene may still occur even with moderate DHC concentrations. When the DHC population is below the 10^4 cells/mL criterion proposed by Lu et al. (10), project managers should carefully consider other site-specific data to determine whether subsurface conditions may be limiting reductive dechlorination. For example, the addition of an electron donor may be able to stimulate DHC growth and enhance anaerobic bioremediation.
	**< 10^1** (cells/mL)	DHC concentrations are low suggesting that complete reductive dechlorination of PCE and TCE to ethene is unlikely to occur under existing conditions. Enhanced anaerobic bioremediation options (biostimulation or bioaugmentation) may need to be considered.

10515 Research Drive
Knoxville, TN 37932
Phone: 865.573.8188
Fax: 865.573.8133
www.microbe.com

DHC Functional Genes (*tce*A, *bvc*A, *vcr*A)

A "stall" where daughter products *cis*-DCE and vinyl chloride accumulate can occur at PCE- and TCE-impacted sites especially under MNA conditions. The accumulation of vinyl chloride, generally considered more carcinogenic than the parent compounds, is particularly problematic. Although elevated *Dehalococcoides* concentrations correspond to ethene production in numerous studies, the range of chlorinated ethenes metabolized and cometabolized varies among species and strains within the *Dehalococcoides* genus. For example, *Dehalococcoides ethenogenes* str. 195 metabolizes PCE, TCE, and *cis*-DCE and cometabolizes vinyl chloride (8) to produce ethene. Conversely, *Dehalococcoides* sp. CBDB1 utilizes PCE and TCE but does not cometabolize additional chloroethenes (11). Other *Dehalococcoides* strains, such as BAV1, GT and VS, are known to fully dechlorinate cis-DCE and VC to ethene (14,16,19). Quantification of reductive dehalogenase genes is used to more definitively confirm the potential for reductive dechlorination of TCE, cis-DCE, and vinyl chloride (12-15).

Functional Gene	Observation
TCE Reductase	
***tce*A gene**	The *tce*A gene encodes the enzyme responsible for reductive dechlorination of TCE to *cis*-DCE in some strains of *Dehalococcoides*. Absence of *tce*A does not preclude the potential for reductive dechlorination of TCE in the field since the *tce*A gene is not universally distributed among all DHC and is not present in other microorganisms capable of reductive dechlorination of TCE (e.g. *Dehalobacter*). Detection of the *tce*A gene provides an additional line of evidence indicating the potential for dechlorination of TCE.
Vinyl Chloride Reductase	
***bvc*A gene**	The *bvc*A gene encodes the vinyl chloride reductase enzyme responsible for reductive dechlorination of vinyl chloride to ethene by *Dehalococcoides* sp. str. BAV1 (16). Presence of *bvc*A gene indicates the potential for reductive dechlorination of VC to ethene. Absence of both *bvc*A and *vcr*A genes suggests VC may accumulate. An internal study with ~1,000 samples showed ethene production was observed in 80% of the samples that the DHC population was greater than or equal to 10^4 cells/mL. The *bvc*A gene was detected in over 50% of these samples. Van Der Zaan et al (17) noted that the bvcA gene was the only VC reductase gene detected at three of their sites. Alfred Spormann's laboratory at Stanford University (18) reported that the *bvc*A gene was the most abundant and active at the outflow of a PCE fed column study. This section of the column was in the DCE to VC stages of reductive dechlorination thus confirming the importance of the *bvc*A gene for complete reductive dechlorination.
***vcr*A gene**	The *vcr*A gene encodes the vinyl chloride reductase enzyme responsible for reductive dechlorination of *cis*-DCE and vinyl chloride by *Dehalococcoides* sp. strain VS (14). Presence of *vcr*A gene indicates the potential for reductive dechlorination of DCE and/or VC to ethene. Absence of both *bvc*A and *vcr*A genes suggest VC may accumulate. As with the *bvc*A gene, detection of the *vcr*A gene is associated with ethene production in internal studies (67%) and vinyl chloride reduction in independent studies (14, 17).

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DHC Interpretation

Reporting

Microbial Insights can provide a variety of data packages and reporting levels to suit the needs of any project. Data packages range from simple analytical reports with results only to more complex data packages that include a report narrative, analytical results, QC data, and supporting materials including all raw data and chain-of-custody documentation. The figure below shows our standard report and explains the way values are reported.

Microbial Insights, Inc.

2340 Stock Creek Blvd. Rockford, TN 37853-3044
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CENSUS

Client: Company Name
Project: Your Project Name

MI Project Number: Unique Laboratory Identifier
Date Received: Date Samples Arrived

Sample Information

Client Sample ID:		Sample A	Sample B	Sample C
Sample Date:		00/00/0000	00/00/0000	00/00/0000
Units:		cells/mL	cells/mL	cells/mL
Analyst:		Intials	Intials	Intials
Dechlorinating Bacteria				
Dehalococcoides spp.	DHC	**1.84E+05**	**2.76E+02**	**2.28E+01 (J)**
Functional Genes				
tceA Reductase	TCE	**6.00E+01**	**3.23E+01**	<4.00E-01
bvcA Reductase	BVC	**1.17E+04**	**1.81E+01**	<4.00E-01
vcrA Reducatase	VCR	**8.42E+04**	**1.74E+02**	<4.00E-01

Legend:
NA = Not Analyzed NS = Not Sampled J = Estimated gene copies below PQL but above LQL I = Inhibited
< = Result not detected

"J" value
Result is an estimated value. This data qualifier (flag) is used when the target gene is detected but at a concentration or abundance below the practical quantification limit (PQL).

< value
The target gene was not detected at the limit of quantitation (LOQ) reported for that sample.

"I" value
QA Procedure indicated that the sample may have exhibited PCR inhibition. Although relatively rare, PCR inhibition can occur due to the presence of metals or humic acids at high concentrations in the sample.

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Quality Assurance

Microbial Insights' comprehensive Quality Assurance (QA) Program is the foundation of all laboratory analyses, ensuring that our clients receive high-quality analytical services that are timely, reliable, and meet their intended purpose in a cost effective manner. MI is committed to providing quality data that surpasses regulatory and industry standards, thus enabling the client to make well-informed decisions. MI maintains strict standard operating procedures and QA/QC measures throughout all of the analyses offered. The following Table details specific QA/QC procedures that are used for CENSUS.

QA/QC	Description
Date of Extraction	DNA and RNA extractions are performed the day the samples are received by MI to minimize the possibility of any changes to the microbial community prior to analysis.
Laboratory Method Blanks	An extraction blank (no sample added) is processed alongside each set of field samples from DNA extraction through CENSUS® analysis to ensure that cross contamination has not occurred. Although MI has never experienced this issue, the detection of the CENSUS® target (e.g. *Dehalococcoides*) in an extraction blank is direct evidence of cross contamination with a sample or contamination of a reagent and would invalidate the results. If this were to occur, MI would re-extract the sample. If not possible to re-extract, MI would contact the client immediately and notate it on the laboratory report.
Laboratory Control Samples (LCS)	A laboratory control sample (LCS) or positive control (target DNA) is included with each CENSUS® plate to confirm amplification and as a continuing calibration check.
Negative Controls	A negative control (no DNA) is included with each CENSUS plate to ensure that cross contamination has not occurred during amplification. As with the extraction blank, detection of CENSUS target (e.g. DHC) in a negative control is direct evidence of contamination and would invalidate the results. If this were to occur, MI would rerun the analysis.

References

1. Freedman, D. L. and J. M. Gossett. 1989. Biological reductive dechlorination of tetrachloroethylene and trichloroethylene to ethylene under methanogenic conditions. Applied and Environmental Microbiology 55(9): 2144-2151.

2. DiStefano, T. D., J.M. Gossett, and S.H. Zinder. 1991. Reductive dechlorination of high concentrations of tetrachlorethene to ethene by an anaerobic enrichment culture in the absence of methanogenesis. Applied and Environmental Microbiology 57(8): 2287-2292.

3. Gerritse, J., V. Renard, T. M. Pedro Gomes, P. A. Lawson, M. D. Collins, and J. C. Gottschal. 1996. *Desulfitobacterium* sp. Strain PCE1, an anaerobic bacterium that can grow by reductive dechlorination of tetrachloroethene or ortho-chlorinated phenols. Archives of Microbiology 165(2): 132-140.

4. Gerritse, J., O. Drzyzga, G. Kloetstra, M. Keijmel, L. P. Wiersum, R. Hutson, M. D. Collins, and J. C. Gottschal. 1999. Influence of different electron donors and acceptors on dehalorespiration of tetrachloroethene by *Desulfitobacterium frappieri* TCE1. Applied and Environmental Microbiology 65(12): 5212-5221.

5. Holliger, C., G. Schraa, A.J.M. Stams, and A.J.B. Zehnder. 1993. A highly purified enrichment culture couples the reductive dechlorination of tetrachloroethene to growth. Applied and Environmental Microbiology 59 (9): 2991-2997.

6. Krumholz, L. R., R. Sharp, and S. S. Fishbain. 1996. A freshwater anaerobe coupling acetate oxidation to tetrachloroethylene dehalogenation. Applied and Environmental Microbiology 62(11): 4108-4113.

7. Löffler, F.E., R.A. Sanford, and J.M. Tiedje. 1996. Initial characterization of a reductive dehalogenase from *Desulfitobacterium chlororespirans* Co23. Applied and Environmental Microbiology 62(10): 3809–3813.

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8. Maymó-Gatell, X., T. Anguish, and S.H. Zinder. 1999. Reductive dechlorination of chlorinated ethenes and 1,2-dichloroethane by *Dehalococcoides ethenogenes* 195. Applied and Environmental Microbiology 65(7): 3108–3113.

9. Hendrickson, E.R., J. Payne, R.M. Young, M.G. Starr, M.P. Perry, S. Fahnestock, D.E. Ellis, and R.C. Eversole. 2002. Molecular analysis of *Dehalococcoides* 16S ribosomal DNA from chloroethene-contaminated sites throughout North America and Europe. Applied and Environmental Microbiology 68(2): 485-495.

10. Lu, X., J.T. Wilson, and D.H. Kampbell. 2006. Relationship between *Dehalococcoides* DNA in ground water and rates of reductive dechlorination at field scale. Water Research 40:3131-3140.

11. Adrian, L, U. Szewzyk, J. Wecke, and H. Görisch. 2000. Bacterial dehalorespiration with chlorinated benzenes. Nature 408(6812): 580-583.

12. Holmes, V.F., J. He, P.K.H. Lee, and L. Alvarez-Cohen. 2006. Discrimination of multiple *Dehalococcoides* strains in a trichlorethene enrichment by quantification of their reductive dehalogenase genes. Applied and Environmental Microbiology 72(9): 5877-5883.

13. Lee, P.K.H., D.R. Johnson, V.F. Holmes, J. He, and L. Alvarez-Cohen. 2006. Reductive dehalogenase gene expression as a biomarker for physiological activity of *Dehalococcoides* spp. Applied and Environmental Microbiology 72(9): 6161-6168.

14. Müller, J.A., B.M. Rosner, G. von Avendroth, G. Meshulam-Simon, P.L. McCarty, and A.M. Spormann. 2004. Molecular identification of the catabolic vinyl chloride reductase from *Dehalococcoides* sp. strain VS and its environmental distribution. Applied and Environmental Microbiology 70(8): 4880-4888.

15. Ritalahti, K.M., B.K. Amos, Y. Sung, Q. Wu, S.S. Koenigsberg, and F.E. Löffler. 2006. Quantitative PCR targeting 16S rRNA and reductive dehalogenase genes simultaneously monitors multiple *Dehalococcoides* strains. Applied and Environmental Microbiology 72(4): 2765-2774.

16. Krajmalnik-Brown, R., T. Hölscher, I. N. Thomson, F. M. Saunders, K. M. Ritalahti, and F. E. Löffler. 2004. Genetic identification of a putative vinyl chloride reductase in *Dehalococcoides* sp. strain BAV1. Applied and Environmental Microbiology 70:6347–6351.

17. van der Zaan, B., F. Hannes, N. Hoekstra, H. Rijnaarts, W.M. de Vos, H. Smidt, and J. Gerritse. 2010. Correlation of *Dehalococcoides* 16S rRNA and chlorethene-reductive dehalogenase genes with geochemical conditions in chloroethene-contaminated groundwater. Applied and Environmental Microbiology 76(3):843-850.

18. Behrens, S., M.F., Azizian, P.J. McMurdie, A. Sabalowsky, M.E. Dolan, L. Semprini, and A.M. Spormann. 2008. Monitoring abundance and expression of *Dehalococcoides* species chloroethene-reductive dehalogenases in a tetrachloroethene-dechlorinating flow column. Applied and Environmental Microbiology 74(18):5695-5703.

19. Sung, Y., K. M. Ritalahti, R. P. Apkarian, and F. E. Löffler. 2006. Quantitative PCR confirms purity of strain GT, a novel trichloroethene (TCE)-to-ethene respiring Dehalococcoides isolate. Appl. Environ. Microbiol. 72:1980-1987

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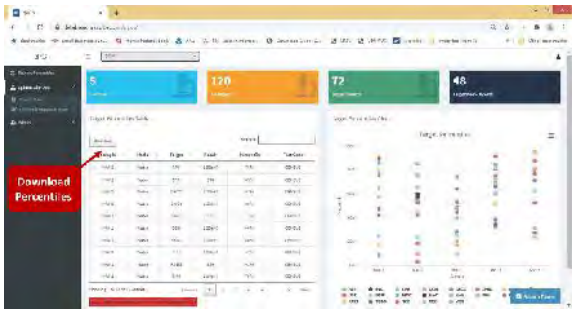
How to Retrieve and Use Percentile Ranks from the Microbial Insights Database

The MI Database

The Microbial Insights Database is the largest collection of field concentrations of key microorganisms and functional genes currently containing qPCR and QuantArray results for more than 100,000 unique groundwater, soil, and sediment samples from all 50 states and 33 countries worldwide.

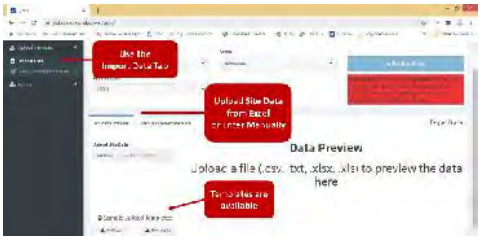
Is that low, medium or high?

In practice, biodegradation depends not just on the presence but the actual concentrations of the contaminant degrading microorganisms. The percentile ranks retrieved from the MI Database answer the question "Is that low, medium or high?" by comparing your results to those of the literally thousands of other environmental samples submitted to MI for analysis.



Retrieving Estimated Percentile Ranks

When you receive your report, you will be emailed a link enabling you to login to the Microbial Insights Database. Click the link and use the Upload Site Data Tab to enter basic information about the sample (e.g. contaminant concentrations) to aid in understanding the links between environmental conditions and microbial populations. Once the site data is entered, you will be able to retrieve the percentile ranks of your results based on those compiled in the MI database at no additional charge.



All site specific data is treated as confidential and uploading is easy.

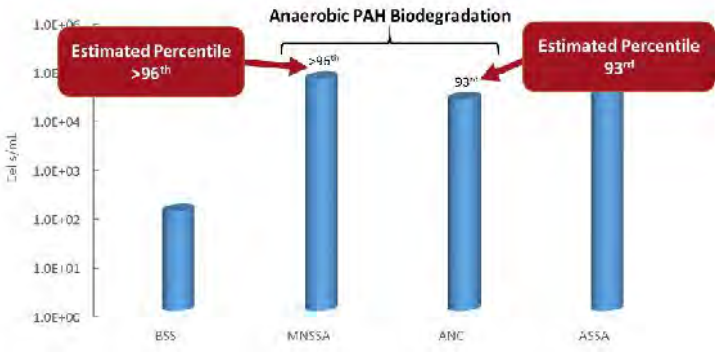
You can even upload chemical and geochemical data from EDDs. Just save as a Tab Delimited text file.

Example - Using Estimated Percentile for MNA Assessment at an MGP Site

CENSUS® qPCR was performed to quantify anaerobic naphthalene carboxylase (ANC) and naphthyl-2-methylsuccinate synthase (MNSSA) to assess anaerobic biodegradation of naphthalene and methyl-naphthalene under existing site conditions.

- Not only were ANC and MNSSA genes detected, but these functional genes responsible for anaerobic biodegradation of PAHs were present at high concentrations based on the percentile ranks.

- Demonstrating high concentrations of ANC and MNSSA gave an additional line of evidence indicating growth substantial populations of anaerobic PAH degraders and suggested a greater probability that monitored natural attenuation (MNA) will be successful.



How to Use Estimated Percentile Ranks from the Microbial Insights Database

The MI Database and Client Portal

The Microbial Insights Database is the largest collection of field concentrations of key microorganisms and functional genes currently containing qPCR and QuantArray results for more than 100,000 unique groundwater, soil, and sediment samples from all 50 states and 33 countries worldwide. Driven by field samples, the database reflects the impacts of common contaminants, geochemical conditions, and site management practices on critical microbial populations.

With your report, you received a passcode enabling you to retrieve estimates of the percentile ranks of your results based on those compiled in the MI database at no additional charge. When accessing the database, you will be asked to provide background information about the sample (e.g. contaminant concentrations) to aid in understanding the links between environmental conditions and microbial populations. As with all client information provided to MI, site specific data will be treated as confidential.

Is that low, medium or high?

In practice, biodegradation depends not just on the presence but the actual concentrations of the contaminant degrading microorganisms. Simply put, qPCR and QuantArray results demonstrating high concentrations of target microorganisms or functional genes suggest in situ selection, enrichment and growth of those specific contaminant degraders and therefore a greater probability that monitored natural attenuation (MNA) or bioremediation will be successful.

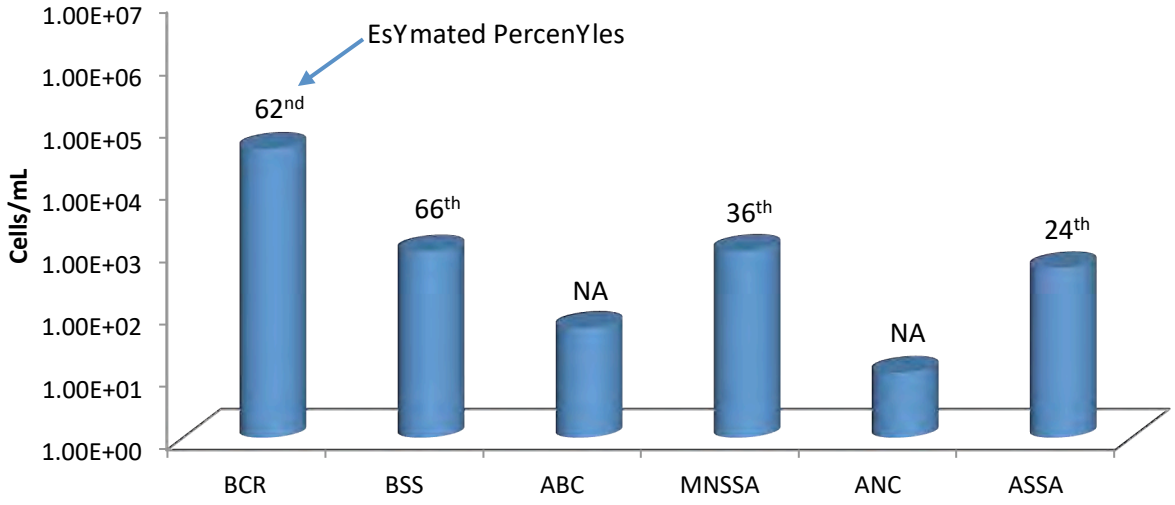
Is that a low, medium, or high concentration? The estimated percentile ranks retrieved from the MI Database answer that question by comparing your qPCR and QuantArray results to those of the literally thousands of other environmental samples submitted to MI for analysis over the last 20+ years.

Using the Estimated Percentile - Interpretation Examples

MNA Assessment – Petroleum Hydrocarbon Site:

Whenever possible, interpretation of qPCR and QuantArray results should include comparisons between samples obtained from background and impacted wells. The estimated percentile ranks however provide an additional avenue for comparison and evaluation of treatment options as shown below.

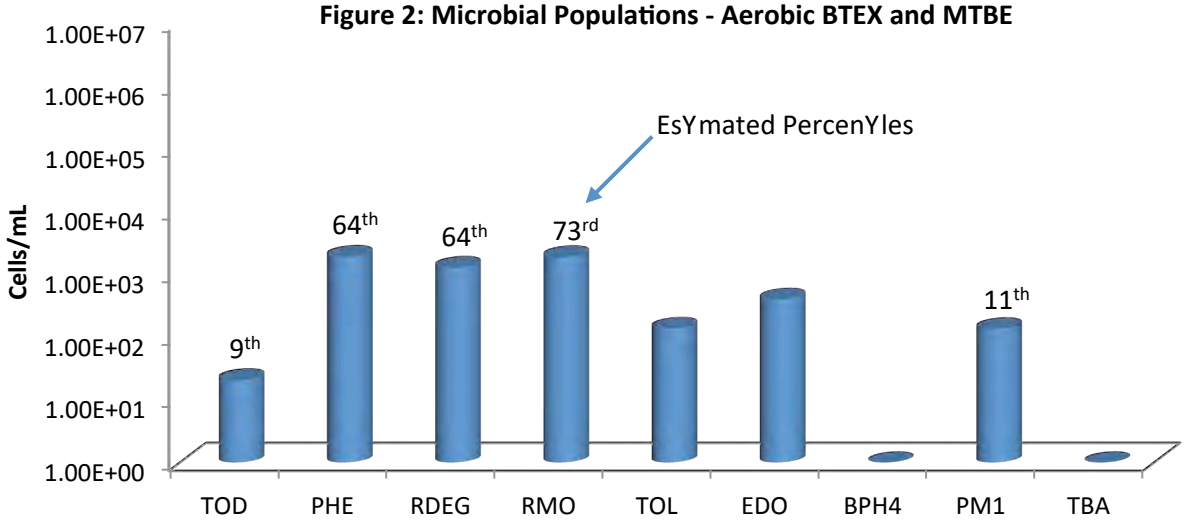
Figure 1: Microbial Populations - Anaerobic BTEX and PAHs



Anaerobic BTEX and PAH Biodegradation (Figure 1):

- With moderate concentrations of functional genes involved in anaerobic BTEX metabolism detected, the QuantArray-Petro® results were encouraging in terms of evaluating biodegradation potential under existing site conditions.
- More specifically, benzylsuccinate synthase (BSS) was detected on the order of nearly 10^3 cells/mL indicating the presence of a substantial population (66^{th} percentile) capable of anaerobic biodegradation of toluene and other alkyl substituted benzenes.
- Naphthyl-2-methylsuccinate synthase (MNSSA) and alkylsuccinate synthase (ASSA) genes were also detected indicating the potential for anaerobic biodegradation of 2-methylnaphthalene and normal alkanes.
- The concentration of MNSSA genes would be considered modest with an estimated percentile of 36^{th}.
- While the percentile rank for MNSSA would be "below average", a number of additional factors should be considered.
    - First, anaerobic hydrocarbon degraders are less prevalent than aerobic BTEX degraders and overall detection frequencies for many genes involved in anaerobic hydrocarbon biodegradation are less than 50%.
    - Therefore, the detection of genes like BSS, MNSSA, ASSA, anaerobic benzene carboxylase (ABC), and anaerobic naphthalene carboxylase (ANC) even at low concentrations is certainly noteworthy and inherently "better than average".
    - The estimated percentiles for all assays are based only on samples where the concentration of the target gene was greater than the practical quantitation limit (PQL).
    - For less commonly detected targets like many of the genes involved in anaerobic hydrocarbon biodegradation this is an especially important consideration.
    - Excluding samples where a gene target is below the PQL ensured that the median concentrations of less commonly detected targets would not be unduly biased low by the fact that the gene is not detected in most samples.
- Anaerobic benzene carboxylase (ABC) and naphthalene carboxylase (ANC) genes were also detected indicating the presence of bacterial populations capable of anaerobic biodegradation of benzene and naphthalene.
- For newly identified genes like ABC and ANC, estimated percentile ranks are not yet available due to the limited number of field samples that have been analyzed to date.
- However, like MNSSA and other genes involved in anaerobic hydrocarbon biodegradation, ABC and ANC detection frequencies are relatively low so the detection of these genes even at low concentrations should be considered when evaluating biodegradation potential under existing site conditions.

Figure 2: Microbial Populations - Aerobic BTEX and MTBE



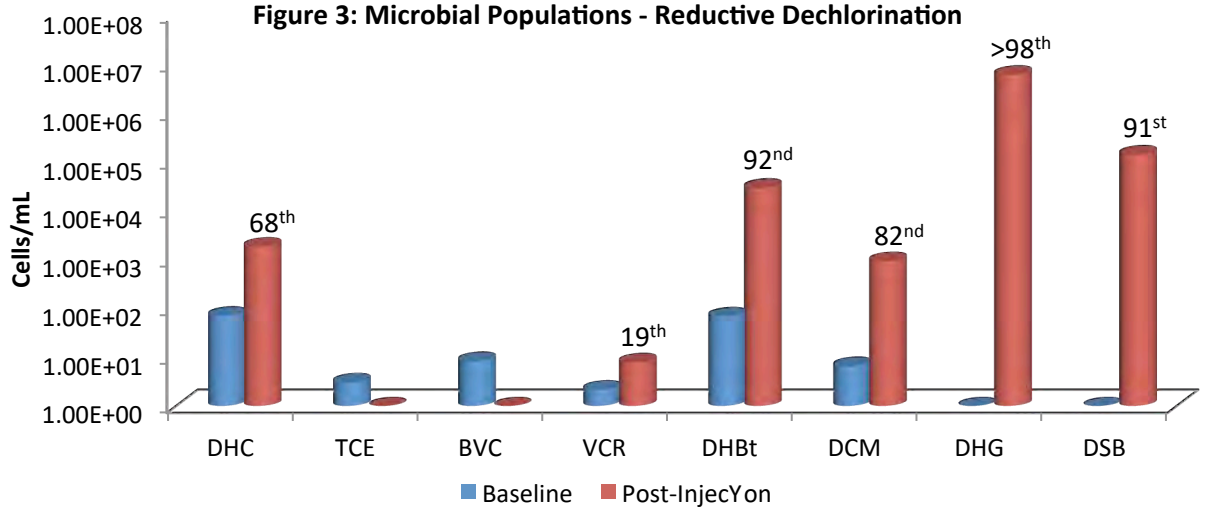
Aerobic BTEX and MTBE Biodegradation (Figure 2):

- With growing evidence that aromatic oxygenases function at low dissolved oxygen concentrations, aerobic BTEX biodegradation pathways should also be evaluated when considering MNA.
- Again, the QuantArray-Petro results were encouraging – genes encoding the first step in multiple pathways for aerobic BTEX biodegradation were detected indicating the presence of a diverse population of aerobic BTEX degraders.
- However, aerobic BTEX degraders are often considered ubiquitous. Therefore answering the question "Is that low, medium or high?" becomes especially important when evaluating aerobic BTEX biodegradation at petroleum hydrocarbon sites.
- In this case, the estimated percentile ranks of the concentrations of toluene/benzene monooxygenase (RMO and RDEG) and phenol hydroxylase (PHE) genes ranged from the 64th to 73rd percentile.
- In other words, the concentrations of RMO, RDEG, and PHE detected in this groundwater sample were greater than the concentrations detected in 64% to 73% of all other groundwater samples where these genes were analyzed and detected above the PQL.
- Aerobic BTEX degraders are common in the environment, but in this sample concentrations of toluene/benzene monooxygenase genes could be viewed as "better than average" when compared to the MI Database.

Biostimulation – Chlorinated Solvent Site:

Whenever possible, interpretation of qPCR and QuantArray results should include comparisons between baseline and post-injection monitoring events as shown below (Figure 3). The estimated percentile ranks however provide an additional avenue for comparison and evaluation of remedy performance.

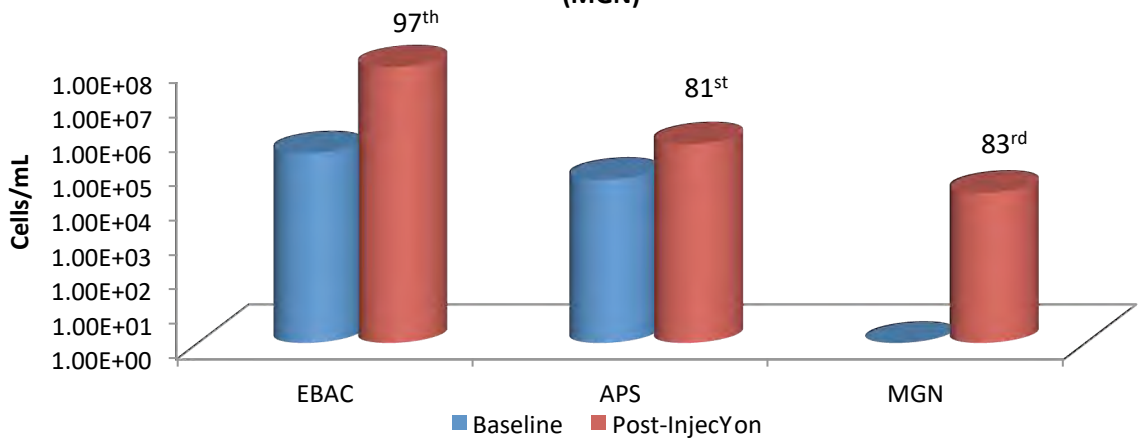
Figure 3: Microbial Populations - Reductive Dechlorination



- During the baseline groundwater sampling event, *Dehalococcoides* and vinyl chloride reductase genes were detected indicating the potential for complete reductive dechlorination of PCE and TCE to ethene.
- However, the *Dehalococcoides* concentration was well below the 10^4 cells/mL recommended by Lu et al. (2006) for generally effective rates of reductive dechlorination.
- Based on qPCR results as well as traditional groundwater monitoring, biostimulation with electron donor addition was selected as the site management plan.
- By the first monitoring event after injection, populations of halorespiring bacteria had increased substantially in response to electron donor addition.
    - *Dehalobacter* populations increased by more than two orders of magnitude to post-injection concentrations greater than 10^4 cells/mL (92^{nd} percentile).
    - *Dehalogenimonas* (10^6 cells/mL) and *Desulfitobacterium* (10^5 cells/mL) which had not been detected prior electron donor addition were present at concentrations greater than observed in over 90% of other groundwater samples where these halorespiring bacteria were detected.
- After injection, *Dehalococcoides* populations increased by more than an order of magnitude to a concentration of over 10^3 cells/mL (68^{th} percentile) demonstrating growth of this key group of halorespiring bacteria.
- Despite a substantial increase and a "better than average" concentration, the *Dehalococcoides* population was still below the 10^4 cells/mL threshold and vinyl chloride reductase gene copies were low (19^{th} percentile).
    - In terms of electron donors and acceptors, the metabolic capabilities of *Dehalococcoides* are rather specialized (hydrogen utilizing obligate halorespiring bacteria) so the median concentration is low. With a low median concentration across the database, a "better than average" *Dehalococcoides* concentration in a given sample may not exceed the 10^4 cells/mL threshold established for effective reductive dechlorination (Lu et al. 2006) and ethene production (Microbial Insights, unpublished data).

- In this case, the initial growth of *Dehalococcoides* was substantial but may have been somewhat hindered by competition with sulfate reducing bacteria (Figure 4 below).
    - The baseline population of sulfate reducing bacteria was moderate (10^4 cells/mL; 63rd percentile). Consistent with an observed decreased in dissolved sulfate concentrations, populations of sulfate reducing bacteria increased and were detected at a relatively high concentration (81st percentile) after electron donor addition.
    - After injection, methanogen populations also increased to a relatively high concentration (83rd percentile) suggesting generation of methanogenic conditions.
- With sulfate depletion and generation of highly anaerobic conditions more conducive to reductive dechlorination, *Dehalococcoides* populations may continue to increase and exceed the 10^4 *Dehalococcoides* cells/mL threshold in subsequent monitoring events.
- Overall, QuantArray analysis conclusively demonstrated that electron donor addition stimulated growth of halorespiring bacteria with the estimated percentiles retrieved from the MI Database providing the "low, medium or high" perspective to the observed changes in microbial populations.

Figure 4: Total Bacteria (EBAC), Sulfate Reducering Bacteria (APS) and Methanogens (MGN)



References

Lu, X., J.T. Wilson, and D.H. Kampbell. 2006. Relationship between *Dehalococcoides* DNA in ground water and rates of reductive dechlorination at field scale. *Water Research* 40 no. 16: 3131-3140.

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ACCREDITED
CERTIFICATE #7157.01

Client: James Guin
ALS Laboratory Group
10450 Stancliff Rd
Suite 210
Houston, TX 77099

Phone:

Fax:

Identifier: 094VE **Date Rec:** 05/24/2024 **Report Date:** 05/31/2024

Client Project #: JVPCIBH.0001 **Client Project Name:** LHAAP / Site 58

Purchase Order #:

Test Results Provided For: CENSUS

Reviewed By: Adam Partin

NOTICE: This report is intended only for the addressee shown above and may contain confidential or privileged information. If the recipient of this material is not the intended recipient or if you have received this in error, please notify Microbial Insights, Inc. immediately. The data and other information in this report represent only the sample(s) analyzed and are rendered upon condition that it is not to be reproduced without approval from Microbial Insights, Inc. Thank you for your cooperation.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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CENSUS

Client: **ALS Laboratory Group** **MI Project Number:** **094VE**

Project: LHAAP / Site 58 Date Received: 05/24/2024

Sample Information

Client Sample ID:	**35AWW19_052324**	**35AWW20_052324**	**35AWW23_052324**
Sample Date:	05/23/2024	05/23/2024	05/23/2024
Units:	cells/mL	cells/mL	cells/mL
Analyst/Reviewer:	AR/AP	AR/AP	AR/AP

Dechlorinating Bacteria

Dehalococcoides	*DHC*	**4.00E+00**	**3.60E+03**	**6.10E+01**
tceA Reductase	TCE	<2.30E-01	<2.30E-01	**2.60E+00**
BAV1 Vinyl Chloride Reductase	BVC	<2.30E-01	**6.60E+02**	**1.20E+00**
Vinyl Chloride Reductase	VCR	<2.30E-01	**2.10E+00**	**4.80E+01**
Dehalobacter spp.	*DHBt*	**5.50E+03**	**9.00E+02**	**1.20E+03**

Legend:
NA = Not Analyzed NS = Not Sampled J = Estimated gene copies below PQL but above LQL I = Inhibited
< = Result not detected

Samples Received: **05/24/2024**

Component	Date Prepared	Date Analyzed	Arrival Temperature	Positive Control	Extraction Blank	Negative Control
BVC	05/24/2024	05/31/2024	0°C	104%	non-detect	non-detect
DHBt	05/24/2024	05/31/2024	0°C	110%	non-detect	non-detect
DHC	05/24/2024	05/31/2024	0°C	109%	non-detect	non-detect
TCE	05/24/2024	05/31/2024	0°C	106%	non-detect	non-detect
VCR	05/24/2024	05/31/2024	0°C	108%	non-detect	non-detect

bhate

Page: ____ of 01336340

Project/Phase No: JVPCIBH.0001

COC Number(1): ____

LIMS Number: ____

1608 13th Avenue South, Suite 300
Birmingham Alabama 35205
Tel: 205-918-4000
Fax: 205-918-4050

Chain of Custody and Analytical Request

Facility/Base I.D.: LHAAP

Project/Site Name: LHAAP / Site 58

Client Name:

Collected by: Scott Beesinger

Sample Analysis Requested [5] | Quality Assurance Samples [6]

Field Sample ID (30 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code [2]	Sample Number [3]	Sample Matrix [4]	Number of containers	DHC / DHB	Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
3SAww9_052324	23 MAy 2024	0740	-	N		WG	1	X				094VF1
LHSmw07_052324	23 MAy 2024	0830	-	N		WG	1	X				2
3SAww20_052324	23 MAy 2024	0920	-	N		WG	1	X				3
3SAww11_052324	23 MAy 2024	1010		N		WG	1	X				4
3SA ww23_052324	23 MAy 2024	1107		N		WG	1	X				5
3SAww06_052324	23 MAy 2024	1150	-	N		WG	1	X				6
			-									
			-									
			-									
			-									
			-									

COMMENTS: STANDARD TAT

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. Scott Beesinger	5/23/24	1430	1.	5/24/24	0950
2.			2.		
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: ____ Shipped ____ No.:

Method of Shipment: ____

Fed Ex ____ Airbill Number:

Analytical Lab: ALS 10450 Stancliff Rd Suite 210 Houston TX 77099 (281) 530-5656

ATTN: ____ Lab Recipient: ____ Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

HS24051535-MSVOA-SW8260

ALS WO# HS24051535

right solutions.
right partner.

Form 1

Organic Analysis Data Sheet

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24051535

Client

Bhate Environmental Associates, Inc.

Project

LHAAP-58

06/24/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder **HS24051535**

Volatiles by EPA Volatiles Organics by Method 8260C

35AWW19_052324	Collected	Received	Matrix	Basis
HS24051535-01	05/23/24 07:40	05/24/24 09:50	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 18:56	VOA9_468115	U053013.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 18:56	VOA9_468115	U053013.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	05/30/24 18:56	VOA9_468115	U053013.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 18:56	VOA9_468115	U053013.D
1,1-Dichloroethane	ug/L	0.88	J	0.20	1.0	1.0	1	05/30/24 18:56	VOA9_468115	U053013.D
1,1-Dichloroethene	ug/L	3.8		0.20	1.0	1.0	1	05/30/24 18:56	VOA9_468115	U053013.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 18:56	VOA9_468115	U053013.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	05/30/24 18:56	VOA9_468115	U053013.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	05/30/24 18:56	VOA9_468115	U053013.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	05/30/24 18:56	VOA9_468115	U053013.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 18:56	VOA9_468115	U053013.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 18:56	VOA9_468115	U053013.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 18:56	VOA9_468115	U053013.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	05/30/24 18:56	VOA9_468115	U053013.D
1,2-Dichloroethane	ug/L	1.7		0.20	1.0	1.0	1	05/30/24 18:56	VOA9_468115	U053013.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	05/30/24 18:56	VOA9_468115	U053013.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 18:56	VOA9_468115	U053013.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	05/30/24 18:56	VOA9_468115	U053013.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 18:56	VOA9_468115	U053013.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	05/30/24 18:56	VOA9_468115	U053013.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 18:56	VOA9_468115	U053013.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	05/30/24 18:56	VOA9_468115	U053013.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 18:56	VOA9_468115	U053013.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	05/30/24 18:56	VOA9_468115	U053013.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	05/30/24 18:56	VOA9_468115	U053013.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 18:56	VOA9_468115	U053013.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	05/30/24 18:56	VOA9_468115	U053013.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	05/30/24 18:56	VOA9_468115	U053013.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 18:56	VOA9_468115	U053013.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	05/30/24 18:56	VOA9_468115	U053013.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 18:56	VOA9_468115	U053013.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 18:56	VOA9_468115	U053013.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	05/30/24 18:56	VOA9_468115	U053013.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder **HS24051535**

Volatiles by EPA Volatiles Organics by Method 8260C

35AWW19_052324	Collected	Received	Matrix	Basis
HS24051535-01	05/23/24 07:40	05/24/24 09:50	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	05/30/24 18:56	VOA9_468115	U053013.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	05/30/24 18:56	VOA9_468115	U053013.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	05/30/24 18:56	VOA9_468115	U053013.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 18:56	VOA9_468115	U053013.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 18:56	VOA9_468115	U053013.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 18:56	VOA9_468115	U053013.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 18:56	VOA9_468115	U053013.D
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 18:56	VOA9_468115	U053013.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 18:56	VOA9_468115	U053013.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 18:56	VOA9_468115	U053013.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 18:56	VOA9_468115	U053013.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 18:56	VOA9_468115	U053013.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 18:56	VOA9_468115	U053013.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	05/30/24 18:56	VOA9_468115	U053013.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 18:56	VOA9_468115	U053013.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	05/30/24 18:56	VOA9_468115	U053013.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	05/30/24 18:56	VOA9_468115	U053013.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 18:56	VOA9_468115	U053013.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	05/30/24 18:56	VOA9_468115	U053013.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 18:56	VOA9_468115	U053013.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 18:56	VOA9_468115	U053013.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 18:56	VOA9_468115	U053013.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 18:56	VOA9_468115	U053013.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 18:56	VOA9_468115	U053013.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 18:56	VOA9_468115	U053013.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 18:56	VOA9_468115	U053013.D
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 18:56	VOA9_468115	U053013.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 18:56	VOA9_468115	U053013.D
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 18:56	VOA9_468115	U053013.D
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 18:56	VOA9_468115	U053013.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 18:56	VOA9_468115	U053013.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder **HS24051535**

Volatiles by EPA Volatiles Organics by Method 8260C

LHSMW07_052324	Collected	Received	Matrix	Basis
HS24051535-02	05/23/24 08:30	05/24/24 09:50	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 19:17	VOA9_468115	U053014.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 19:17	VOA9_468115	U053014.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	05/30/24 19:17	VOA9_468115	U053014.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 19:17	VOA9_468115	U053014.D
1,1-Dichloroethane	ug/L	14		0.20	1.0	1.0	1	05/30/24 19:17	VOA9_468115	U053014.D
1,1-Dichloroethene	ug/L	99		0.20	1.0	1.0	1	05/30/24 19:17	VOA9_468115	U053014.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 19:17	VOA9_468115	U053014.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	05/30/24 19:17	VOA9_468115	U053014.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	05/30/24 19:17	VOA9_468115	U053014.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	05/30/24 19:17	VOA9_468115	U053014.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 19:17	VOA9_468115	U053014.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 19:17	VOA9_468115	U053014.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 19:17	VOA9_468115	U053014.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	05/30/24 19:17	VOA9_468115	U053014.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 19:17	VOA9_468115	U053014.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	05/30/24 19:17	VOA9_468115	U053014.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 19:17	VOA9_468115	U053014.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	05/30/24 19:17	VOA9_468115	U053014.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 19:17	VOA9_468115	U053014.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	05/30/24 19:17	VOA9_468115	U053014.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 19:17	VOA9_468115	U053014.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	05/30/24 19:17	VOA9_468115	U053014.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 19:17	VOA9_468115	U053014.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	05/30/24 19:17	VOA9_468115	U053014.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	05/30/24 19:17	VOA9_468115	U053014.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 19:17	VOA9_468115	U053014.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	05/30/24 19:17	VOA9_468115	U053014.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	05/30/24 19:17	VOA9_468115	U053014.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 19:17	VOA9_468115	U053014.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	05/30/24 19:17	VOA9_468115	U053014.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 19:17	VOA9_468115	U053014.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 19:17	VOA9_468115	U053014.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	05/30/24 19:17	VOA9_468115	U053014.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder **HS24051535**

Volatiles by EPA Volatiles Organics by Method 8260C

LHSMW07_052324	Collected	Received	Matrix	Basis
HS24051535-02	05/23/24 08:30	05/24/24 09:50	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	05/30/24 19:17	VOA9_468115	U053014.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	05/30/24 19:17	VOA9_468115	U053014.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	05/30/24 19:17	VOA9_468115	U053014.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 19:17	VOA9_468115	U053014.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 19:17	VOA9_468115	U053014.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 19:17	VOA9_468115	U053014.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 19:17	VOA9_468115	U053014.D
cis-1,2-Dichloroethene	ug/L	1.1		0.20	1.0	1.0	1	05/30/24 19:17	VOA9_468115	U053014.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 19:17	VOA9_468115	U053014.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 19:17	VOA9_468115	U053014.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 19:17	VOA9_468115	U053014.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 19:17	VOA9_468115	U053014.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 19:17	VOA9_468115	U053014.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	05/30/24 19:17	VOA9_468115	U053014.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 19:17	VOA9_468115	U053014.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	05/30/24 19:17	VOA9_468115	U053014.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	05/30/24 19:17	VOA9_468115	U053014.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 19:17	VOA9_468115	U053014.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	05/30/24 19:17	VOA9_468115	U053014.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 19:17	VOA9_468115	U053014.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 19:17	VOA9_468115	U053014.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 19:17	VOA9_468115	U053014.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 19:17	VOA9_468115	U053014.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 19:17	VOA9_468115	U053014.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 19:17	VOA9_468115	U053014.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 19:17	VOA9_468115	U053014.D
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 19:17	VOA9_468115	U053014.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 19:17	VOA9_468115	U053014.D
Trichloroethene	ug/L	2.0		0.20	1.0	1.0	1	05/30/24 19:17	VOA9_468115	U053014.D
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 19:17	VOA9_468115	U053014.D
Vinyl chloride	ug/L	47		0.20	1.0	1.0	1	05/30/24 19:17	VOA9_468115	U053014.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder **HS24051535**

Volatiles by EPA Volatiles Organics by Method 8260C

35AWW20_052324	Collected	Received	Matrix	Basis
HS24051535-03	05/23/24 09:20	05/24/24 09:50	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	5.0	U	1.5	5.0	5.0	5	05/30/24 21:07	VOA9_468115	U053019.D
1,1,1-Trichloroethane	ug/L	5.0	U	1.0	5.0	5.0	5	05/30/24 21:07	VOA9_468115	U053019.D
1,1,2,2-Tetrachloroethane	ug/L	5.0	U	2.5	5.0	5.0	5	05/30/24 21:07	VOA9_468115	U053019.D
1,1,2-Trichloroethane	ug/L	56		1.5	5.0	5.0	5	05/30/24 21:07	VOA9_468115	U053019.D
1,1-Dichloroethane	ug/L	390		1.0	5.0	5.0	5	05/30/24 21:07	VOA9_468115	U053019.D
1,1-Dichloroethene	ug/L	1,100		5.0	25	25	25	06/06/24 13:44	VOA9_468713	U060610.D
1,1-Dichloropropene	ug/L	5.0	U	1.5	5.0	5.0	5	05/30/24 21:07	VOA9_468115	U053019.D
1,2,3-Trichlorobenzene	ug/L	5.0	U	2.0	5.0	5.0	5	05/30/24 21:07	VOA9_468115	U053019.D
1,2,3-Trichloropropane	ug/L	5.0	U	2.5	5.0	5.0	5	05/30/24 21:07	VOA9_468115	U053019.D
1,2,4-Trichlorobenzene	ug/L	5.0	U	2.5	5.0	5.0	5	05/30/24 21:07	VOA9_468115	U053019.D
1,2,4-Trimethylbenzene	ug/L	5.0	U	1.5	5.0	5.0	5	05/30/24 21:07	VOA9_468115	U053019.D
1,2-Dibromo-3-chloropropane	ug/L	5.0	U	1.0	5.0	5.0	5	05/30/24 21:07	VOA9_468115	U053019.D
1,2-Dibromoethane	ug/L	5.0	U	1.0	5.0	5.0	5	05/30/24 21:07	VOA9_468115	U053019.D
1,2-Dichlorobenzene	ug/L	26		2.5	5.0	5.0	5	05/30/24 21:07	VOA9_468115	U053019.D
1,2-Dichloroethane	ug/L	15		1.0	5.0	5.0	5	05/30/24 21:07	VOA9_468115	U053019.D
1,2-Dichloropropane	ug/L	5.0	U	2.5	5.0	5.0	5	05/30/24 21:07	VOA9_468115	U053019.D
1,3,5-Trimethylbenzene	ug/L	5.0	U	1.5	5.0	5.0	5	05/30/24 21:07	VOA9_468115	U053019.D
1,3-Dichlorobenzene	ug/L	5.0	U	2.0	5.0	5.0	5	05/30/24 21:07	VOA9_468115	U053019.D
1,3-Dichloropropane	ug/L	5.0	U	1.5	5.0	5.0	5	05/30/24 21:07	VOA9_468115	U053019.D
1,4-Dichlorobenzene	ug/L	4.4	J	2.0	5.0	5.0	5	05/30/24 21:07	VOA9_468115	U053019.D
2,2-Dichloropropane	ug/L	5.0	U	1.0	5.0	5.0	5	05/30/24 21:07	VOA9_468115	U053019.D
2-Butanone	ug/L	10	U	2.5	10	10	5	05/30/24 21:07	VOA9_468115	U053019.D
2-Chlorotoluene	ug/L	5.0	U	1.5	5.0	5.0	5	05/30/24 21:07	VOA9_468115	U053019.D
2-Hexanone	ug/L	19		5.0	10	10	5	05/30/24 21:07	VOA9_468115	U053019.D
4-Chlorotoluene	ug/L	5.0	U	2.0	5.0	5.0	5	05/30/24 21:07	VOA9_468115	U053019.D
4-Isopropyltoluene	ug/L	5.0	U	1.5	5.0	5.0	5	05/30/24 21:07	VOA9_468115	U053019.D
4-Methyl-2-pentanone	ug/L	10	U	3.5	10	10	5	05/30/24 21:07	VOA9_468115	U053019.D
Acetone	ug/L	10	U	2.0	10	10	5	05/30/24 21:07	VOA9_468115	U053019.D
Benzene	ug/L	6.0		1.0	5.0	5.0	5	05/30/24 21:07	VOA9_468115	U053019.D
Bromobenzene	ug/L	5.0	U	2.0	5.0	5.0	5	05/30/24 21:07	VOA9_468115	U053019.D
Bromochloromethane	ug/L	5.0	U	1.0	5.0	5.0	5	05/30/24 21:07	VOA9_468115	U053019.D
Bromodichloromethane	ug/L	5.0	U	1.0	5.0	5.0	5	05/30/24 21:07	VOA9_468115	U053019.D
Bromoform	ug/L	5.0	U	2.0	5.0	5.0	5	05/30/24 21:07	VOA9_468115	U053019.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder **HS24051535**

Volatiles by EPA Volatiles Organics by Method 8260C

35AWW20_052324	Collected	Received	Matrix	Basis
HS24051535-03	05/23/24 09:20	05/24/24 09:50	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	5.0	U	2.0	5.0	5.0	5	05/30/24 21:07	VOA9_468115	U053019.D
Carbon disulfide	ug/L	10	U	3.0	10	10	5	05/30/24 21:07	VOA9_468115	U053019.D
Carbon tetrachloride	ug/L	5.0	U	2.5	5.0	5.0	5	05/30/24 21:07	VOA9_468115	U053019.D
Chlorobenzene	ug/L	5.0	U	1.5	5.0	5.0	5	05/30/24 21:07	VOA9_468115	U053019.D
Chloroethane	ug/L	5.0	U	1.5	5.0	5.0	5	05/30/24 21:07	VOA9_468115	U053019.D
Chloroform	ug/L	5.0	U	1.0	5.0	5.0	5	05/30/24 21:07	VOA9_468115	U053019.D
Chloromethane	ug/L	5.0	U	1.0	5.0	5.0	5	05/30/24 21:07	VOA9_468115	U053019.D
cis-1,2-Dichloroethene	ug/L	73		1.0	5.0	5.0	5	05/30/24 21:07	VOA9_468115	U053019.D
cis-1,3-Dichloropropene	ug/L	5.0	U	1.0	5.0	5.0	5	05/30/24 21:07	VOA9_468115	U053019.D
Dibromochloromethane	ug/L	5.0	U	1.5	5.0	5.0	5	05/30/24 21:07	VOA9_468115	U053019.D
Dibromomethane	ug/L	5.0	U	1.0	5.0	5.0	5	05/30/24 21:07	VOA9_468115	U053019.D
Dichlorodifluoromethane	ug/L	5.0	U	1.5	5.0	5.0	5	05/30/24 21:07	VOA9_468115	U053019.D
Ethylbenzene	ug/L	5.0	U	1.5	5.0	5.0	5	05/30/24 21:07	VOA9_468115	U053019.D
Hexachlorobutadiene	ug/L	5.0	U	5.0	5.0	5.0	5	05/30/24 21:07	VOA9_468115	U053019.D
Isopropylbenzene	ug/L	5.0	U	1.5	5.0	5.0	5	05/30/24 21:07	VOA9_468115	U053019.D
m,p-Xylene	ug/L	10	U	2.5	10	10	5	05/30/24 21:07	VOA9_468115	U053019.D
Methylene chloride	ug/L	10	U	2.0	10	10	5	05/30/24 21:07	VOA9_468115	U053019.D
Naphthalene	ug/L	5.0	U	1.5	5.0	5.0	5	05/30/24 21:07	VOA9_468115	U053019.D
n-Butylbenzene	ug/L	5.0	U	2.0	5.0	5.0	5	05/30/24 21:07	VOA9_468115	U053019.D
n-Propylbenzene	ug/L	5.0	U	1.5	5.0	5.0	5	05/30/24 21:07	VOA9_468115	U053019.D
o-Xylene	ug/L	5.0	U	1.5	5.0	5.0	5	05/30/24 21:07	VOA9_468115	U053019.D
sec-Butylbenzene	ug/L	5.0	U	1.5	5.0	5.0	5	05/30/24 21:07	VOA9_468115	U053019.D
Styrene	ug/L	5.0	U	1.5	5.0	5.0	5	05/30/24 21:07	VOA9_468115	U053019.D
tert-Butylbenzene	ug/L	5.0	U	1.5	5.0	5.0	5	05/30/24 21:07	VOA9_468115	U053019.D
Tetrachloroethene	ug/L	5.0	U	1.5	5.0	5.0	5	05/30/24 21:07	VOA9_468115	U053019.D
Toluene	ug/L	5.0	U	1.0	5.0	5.0	5	05/30/24 21:07	VOA9_468115	U053019.D
trans-1,2-Dichloroethene	ug/L	4.8	J	1.0	5.0	5.0	5	05/30/24 21:07	VOA9_468115	U053019.D
trans-1,3-Dichloropropene	ug/L	5.0	U	1.0	5.0	5.0	5	05/30/24 21:07	VOA9_468115	U053019.D
Trichloroethene	ug/L	130		1.0	5.0	5.0	5	05/30/24 21:07	VOA9_468115	U053019.D
Trichlorofluoromethane	ug/L	5.0	U	1.5	5.0	5.0	5	05/30/24 21:07	VOA9_468115	U053019.D
Vinyl chloride	ug/L	480		1.0	5.0	5.0	5	05/30/24 21:07	VOA9_468115	U053019.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder **HS24051535**

Volatiles by EPA Volatiles Organics by Method 8260C

35AWW11_052324	Collected	Received	Matrix	Basis
HS24051535-04	05/23/24 10:10	05/24/24 09:50	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 19:39	VOA9_468115	U053015.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 19:39	VOA9_468115	U053015.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	05/30/24 19:39	VOA9_468115	U053015.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 19:39	VOA9_468115	U053015.D
1,1-Dichloroethane	ug/L	1.2		0.20	1.0	1.0	1	05/30/24 19:39	VOA9_468115	U053015.D
1,1-Dichloroethene	ug/L	2.8		0.20	1.0	1.0	1	05/30/24 19:39	VOA9_468115	U053015.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 19:39	VOA9_468115	U053015.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	05/30/24 19:39	VOA9_468115	U053015.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	05/30/24 19:39	VOA9_468115	U053015.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	05/30/24 19:39	VOA9_468115	U053015.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 19:39	VOA9_468115	U053015.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 19:39	VOA9_468115	U053015.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 19:39	VOA9_468115	U053015.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	05/30/24 19:39	VOA9_468115	U053015.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 19:39	VOA9_468115	U053015.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	05/30/24 19:39	VOA9_468115	U053015.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 19:39	VOA9_468115	U053015.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	05/30/24 19:39	VOA9_468115	U053015.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 19:39	VOA9_468115	U053015.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	05/30/24 19:39	VOA9_468115	U053015.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 19:39	VOA9_468115	U053015.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	05/30/24 19:39	VOA9_468115	U053015.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 19:39	VOA9_468115	U053015.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	05/30/24 19:39	VOA9_468115	U053015.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	05/30/24 19:39	VOA9_468115	U053015.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 19:39	VOA9_468115	U053015.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	05/30/24 19:39	VOA9_468115	U053015.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	05/30/24 19:39	VOA9_468115	U053015.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 19:39	VOA9_468115	U053015.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	05/30/24 19:39	VOA9_468115	U053015.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 19:39	VOA9_468115	U053015.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 19:39	VOA9_468115	U053015.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	05/30/24 19:39	VOA9_468115	U053015.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder **HS24051535**

Volatiles by EPA Volatiles Organics by Method 8260C

35AWW11_052324	Collected	Received	Matrix	Basis
HS24051535-04	05/23/24 10:10	05/24/24 09:50	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	05/30/24 19:39	VOA9_468115	U053015.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	05/30/24 19:39	VOA9_468115	U053015.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	05/30/24 19:39	VOA9_468115	U053015.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 19:39	VOA9_468115	U053015.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 19:39	VOA9_468115	U053015.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 19:39	VOA9_468115	U053015.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 19:39	VOA9_468115	U053015.D
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 19:39	VOA9_468115	U053015.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 19:39	VOA9_468115	U053015.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 19:39	VOA9_468115	U053015.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 19:39	VOA9_468115	U053015.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 19:39	VOA9_468115	U053015.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 19:39	VOA9_468115	U053015.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	05/30/24 19:39	VOA9_468115	U053015.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 19:39	VOA9_468115	U053015.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	05/30/24 19:39	VOA9_468115	U053015.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	05/30/24 19:39	VOA9_468115	U053015.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 19:39	VOA9_468115	U053015.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	05/30/24 19:39	VOA9_468115	U053015.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 19:39	VOA9_468115	U053015.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 19:39	VOA9_468115	U053015.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 19:39	VOA9_468115	U053015.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 19:39	VOA9_468115	U053015.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 19:39	VOA9_468115	U053015.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 19:39	VOA9_468115	U053015.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 19:39	VOA9_468115	U053015.D
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 19:39	VOA9_468115	U053015.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 19:39	VOA9_468115	U053015.D
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 19:39	VOA9_468115	U053015.D
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 19:39	VOA9_468115	U053015.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 19:39	VOA9_468115	U053015.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder **HS24051535**

Volatiles by EPA Volatiles Organics by Method 8260C

35AWW23_052324	Collected	Received	Matrix	Basis
HS24051535-05	05/23/24 11:00	05/24/24 09:50	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 20:00	VOA9_468115	U053016.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 20:00	VOA9_468115	U053016.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	05/30/24 20:00	VOA9_468115	U053016.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 20:00	VOA9_468115	U053016.D
1,1-Dichloroethane	ug/L	0.69	J	0.20	1.0	1.0	1	05/30/24 20:00	VOA9_468115	U053016.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 20:00	VOA9_468115	U053016.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 20:00	VOA9_468115	U053016.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	05/30/24 20:00	VOA9_468115	U053016.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	05/30/24 20:00	VOA9_468115	U053016.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	05/30/24 20:00	VOA9_468115	U053016.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 20:00	VOA9_468115	U053016.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 20:00	VOA9_468115	U053016.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 20:00	VOA9_468115	U053016.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	05/30/24 20:00	VOA9_468115	U053016.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 20:00	VOA9_468115	U053016.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	05/30/24 20:00	VOA9_468115	U053016.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 20:00	VOA9_468115	U053016.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	05/30/24 20:00	VOA9_468115	U053016.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 20:00	VOA9_468115	U053016.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	05/30/24 20:00	VOA9_468115	U053016.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 20:00	VOA9_468115	U053016.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	05/30/24 20:00	VOA9_468115	U053016.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 20:00	VOA9_468115	U053016.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	05/30/24 20:00	VOA9_468115	U053016.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	05/30/24 20:00	VOA9_468115	U053016.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 20:00	VOA9_468115	U053016.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	05/30/24 20:00	VOA9_468115	U053016.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	05/30/24 20:00	VOA9_468115	U053016.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 20:00	VOA9_468115	U053016.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	05/30/24 20:00	VOA9_468115	U053016.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 20:00	VOA9_468115	U053016.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 20:00	VOA9_468115	U053016.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	05/30/24 20:00	VOA9_468115	U053016.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder **HS24051535**

Volatiles by EPA Volatiles Organics by Method 8260C

35AWW23_052324	Collected	Received	Matrix	Basis
HS24051535-05	05/23/24 11:00	05/24/24 09:50	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	05/30/24 20:00	VOA9_468115	U053016.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	05/30/24 20:00	VOA9_468115	U053016.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	05/30/24 20:00	VOA9_468115	U053016.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 20:00	VOA9_468115	U053016.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 20:00	VOA9_468115	U053016.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 20:00	VOA9_468115	U053016.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 20:00	VOA9_468115	U053016.D
cis-1,2-Dichloroethene	ug/L	0.69	J	0.20	1.0	1.0	1	05/30/24 20:00	VOA9_468115	U053016.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 20:00	VOA9_468115	U053016.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 20:00	VOA9_468115	U053016.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 20:00	VOA9_468115	U053016.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 20:00	VOA9_468115	U053016.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 20:00	VOA9_468115	U053016.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	05/30/24 20:00	VOA9_468115	U053016.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 20:00	VOA9_468115	U053016.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	05/30/24 20:00	VOA9_468115	U053016.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	05/30/24 20:00	VOA9_468115	U053016.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 20:00	VOA9_468115	U053016.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	05/30/24 20:00	VOA9_468115	U053016.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 20:00	VOA9_468115	U053016.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 20:00	VOA9_468115	U053016.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 20:00	VOA9_468115	U053016.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 20:00	VOA9_468115	U053016.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 20:00	VOA9_468115	U053016.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 20:00	VOA9_468115	U053016.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 20:00	VOA9_468115	U053016.D
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 20:00	VOA9_468115	U053016.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 20:00	VOA9_468115	U053016.D
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 20:00	VOA9_468115	U053016.D
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 20:00	VOA9_468115	U053016.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 20:00	VOA9_468115	U053016.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder **HS24051535**

Volatiles by EPA Volatiles Organics by Method 8260C

35AWW06_052324	Collected	Received	Matrix	Basis
HS24051535-06	05/23/24 11:50	05/24/24 09:50	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 20:22	VOA9_468115	U053017.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 20:22	VOA9_468115	U053017.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	05/30/24 20:22	VOA9_468115	U053017.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 20:22	VOA9_468115	U053017.D
1,1-Dichloroethane	ug/L	0.53	J	0.20	1.0	1.0	1	05/30/24 20:22	VOA9_468115	U053017.D
1,1-Dichloroethene	ug/L	0.95	J	0.20	1.0	1.0	1	05/30/24 20:22	VOA9_468115	U053017.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 20:22	VOA9_468115	U053017.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	05/30/24 20:22	VOA9_468115	U053017.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	05/30/24 20:22	VOA9_468115	U053017.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	05/30/24 20:22	VOA9_468115	U053017.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 20:22	VOA9_468115	U053017.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 20:22	VOA9_468115	U053017.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 20:22	VOA9_468115	U053017.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	05/30/24 20:22	VOA9_468115	U053017.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 20:22	VOA9_468115	U053017.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	05/30/24 20:22	VOA9_468115	U053017.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 20:22	VOA9_468115	U053017.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	05/30/24 20:22	VOA9_468115	U053017.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 20:22	VOA9_468115	U053017.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	05/30/24 20:22	VOA9_468115	U053017.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 20:22	VOA9_468115	U053017.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	05/30/24 20:22	VOA9_468115	U053017.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 20:22	VOA9_468115	U053017.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	05/30/24 20:22	VOA9_468115	U053017.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	05/30/24 20:22	VOA9_468115	U053017.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 20:22	VOA9_468115	U053017.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	05/30/24 20:22	VOA9_468115	U053017.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	05/30/24 20:22	VOA9_468115	U053017.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 20:22	VOA9_468115	U053017.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	05/30/24 20:22	VOA9_468115	U053017.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 20:22	VOA9_468115	U053017.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 20:22	VOA9_468115	U053017.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	05/30/24 20:22	VOA9_468115	U053017.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder **HS24051535**

Volatiles by EPA Volatiles Organics by Method 8260C

35AWW06_052324	Collected	Received	Matrix	Basis
HS24051535-06	05/23/24 11:50	05/24/24 09:50	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	05/30/24 20:22	VOA9_468115	U053017.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	05/30/24 20:22	VOA9_468115	U053017.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	05/30/24 20:22	VOA9_468115	U053017.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 20:22	VOA9_468115	U053017.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 20:22	VOA9_468115	U053017.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 20:22	VOA9_468115	U053017.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 20:22	VOA9_468115	U053017.D
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 20:22	VOA9_468115	U053017.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 20:22	VOA9_468115	U053017.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 20:22	VOA9_468115	U053017.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 20:22	VOA9_468115	U053017.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 20:22	VOA9_468115	U053017.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 20:22	VOA9_468115	U053017.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	05/30/24 20:22	VOA9_468115	U053017.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 20:22	VOA9_468115	U053017.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	05/30/24 20:22	VOA9_468115	U053017.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	05/30/24 20:22	VOA9_468115	U053017.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 20:22	VOA9_468115	U053017.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	05/30/24 20:22	VOA9_468115	U053017.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 20:22	VOA9_468115	U053017.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 20:22	VOA9_468115	U053017.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 20:22	VOA9_468115	U053017.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 20:22	VOA9_468115	U053017.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 20:22	VOA9_468115	U053017.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 20:22	VOA9_468115	U053017.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 20:22	VOA9_468115	U053017.D
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 20:22	VOA9_468115	U053017.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 20:22	VOA9_468115	U053017.D
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 20:22	VOA9_468115	U053017.D
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 20:22	VOA9_468115	U053017.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 20:22	VOA9_468115	U053017.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder **HS24051535**

Volatiles by EPA Volatiles Organics by Method 8260C

35AWW18_052324	Collected	Received	Matrix	Basis
HS24051535-07	05/23/24 12:40	05/24/24 09:50	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 20:43	VOA9_468115	U053018.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 20:43	VOA9_468115	U053018.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	05/30/24 20:43	VOA9_468115	U053018.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 20:43	VOA9_468115	U053018.D
1,1-Dichloroethane	ug/L	4.9		0.20	1.0	1.0	1	05/30/24 20:43	VOA9_468115	U053018.D
1,1-Dichloroethene	ug/L	22		0.20	1.0	1.0	1	05/30/24 20:43	VOA9_468115	U053018.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 20:43	VOA9_468115	U053018.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	05/30/24 20:43	VOA9_468115	U053018.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	05/30/24 20:43	VOA9_468115	U053018.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	05/30/24 20:43	VOA9_468115	U053018.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 20:43	VOA9_468115	U053018.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 20:43	VOA9_468115	U053018.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 20:43	VOA9_468115	U053018.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	05/30/24 20:43	VOA9_468115	U053018.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 20:43	VOA9_468115	U053018.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	05/30/24 20:43	VOA9_468115	U053018.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 20:43	VOA9_468115	U053018.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	05/30/24 20:43	VOA9_468115	U053018.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 20:43	VOA9_468115	U053018.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	05/30/24 20:43	VOA9_468115	U053018.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 20:43	VOA9_468115	U053018.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	05/30/24 20:43	VOA9_468115	U053018.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 20:43	VOA9_468115	U053018.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	05/30/24 20:43	VOA9_468115	U053018.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	05/30/24 20:43	VOA9_468115	U053018.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 20:43	VOA9_468115	U053018.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	05/30/24 20:43	VOA9_468115	U053018.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	05/30/24 20:43	VOA9_468115	U053018.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 20:43	VOA9_468115	U053018.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	05/30/24 20:43	VOA9_468115	U053018.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 20:43	VOA9_468115	U053018.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 20:43	VOA9_468115	U053018.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	05/30/24 20:43	VOA9_468115	U053018.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder **HS24051535**

Volatiles by EPA Volatiles Organics by Method 8260C

35AWW18_052324	Collected	Received	Matrix	Basis
HS24051535-07	05/23/24 12:40	05/24/24 09:50	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	05/30/24 20:43	VOA9_468115	U053018.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	05/30/24 20:43	VOA9_468115	U053018.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	05/30/24 20:43	VOA9_468115	U053018.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 20:43	VOA9_468115	U053018.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 20:43	VOA9_468115	U053018.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 20:43	VOA9_468115	U053018.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 20:43	VOA9_468115	U053018.D
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 20:43	VOA9_468115	U053018.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 20:43	VOA9_468115	U053018.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 20:43	VOA9_468115	U053018.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 20:43	VOA9_468115	U053018.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 20:43	VOA9_468115	U053018.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 20:43	VOA9_468115	U053018.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	05/30/24 20:43	VOA9_468115	U053018.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 20:43	VOA9_468115	U053018.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	05/30/24 20:43	VOA9_468115	U053018.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	05/30/24 20:43	VOA9_468115	U053018.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 20:43	VOA9_468115	U053018.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	05/30/24 20:43	VOA9_468115	U053018.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 20:43	VOA9_468115	U053018.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 20:43	VOA9_468115	U053018.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 20:43	VOA9_468115	U053018.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 20:43	VOA9_468115	U053018.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 20:43	VOA9_468115	U053018.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 20:43	VOA9_468115	U053018.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 20:43	VOA9_468115	U053018.D
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 20:43	VOA9_468115	U053018.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 20:43	VOA9_468115	U053018.D
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 20:43	VOA9_468115	U053018.D
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 20:43	VOA9_468115	U053018.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 20:43	VOA9_468115	U053018.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder **HS24051535**

Volatiles by EPA Volatiles Organics by Method 8260C

Trip Blank

	Collected	Received	Matrix	Basis
HS24051535-08	05/23/24 00:00	05/24/24 09:50	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 17:08	VOA9_468115	U053008.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 17:08	VOA9_468115	U053008.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	05/30/24 17:08	VOA9_468115	U053008.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 17:08	VOA9_468115	U053008.D
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 17:08	VOA9_468115	U053008.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 17:08	VOA9_468115	U053008.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 17:08	VOA9_468115	U053008.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	05/30/24 17:08	VOA9_468115	U053008.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	05/30/24 17:08	VOA9_468115	U053008.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	05/30/24 17:08	VOA9_468115	U053008.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 17:08	VOA9_468115	U053008.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 17:08	VOA9_468115	U053008.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 17:08	VOA9_468115	U053008.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	05/30/24 17:08	VOA9_468115	U053008.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 17:08	VOA9_468115	U053008.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	05/30/24 17:08	VOA9_468115	U053008.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 17:08	VOA9_468115	U053008.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	05/30/24 17:08	VOA9_468115	U053008.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 17:08	VOA9_468115	U053008.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	05/30/24 17:08	VOA9_468115	U053008.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 17:08	VOA9_468115	U053008.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	05/30/24 17:08	VOA9_468115	U053008.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 17:08	VOA9_468115	U053008.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	05/30/24 17:08	VOA9_468115	U053008.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	05/30/24 17:08	VOA9_468115	U053008.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 17:08	VOA9_468115	U053008.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	05/30/24 17:08	VOA9_468115	U053008.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	05/30/24 17:08	VOA9_468115	U053008.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 17:08	VOA9_468115	U053008.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	05/30/24 17:08	VOA9_468115	U053008.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 17:08	VOA9_468115	U053008.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 17:08	VOA9_468115	U053008.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	05/30/24 17:08	VOA9_468115	U053008.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder **HS24051535**

Volatiles by EPA Volatiles Organics by Method 8260C

Trip Blank

	Collected	Received	Matrix	Basis
HS24051535-08	05/23/24 00:00	05/24/24 09:50	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	05/30/24 17:08	VOA9_468115	U053008.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	05/30/24 17:08	VOA9_468115	U053008.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	05/30/24 17:08	VOA9_468115	U053008.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 17:08	VOA9_468115	U053008.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 17:08	VOA9_468115	U053008.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 17:08	VOA9_468115	U053008.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 17:08	VOA9_468115	U053008.D
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 17:08	VOA9_468115	U053008.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 17:08	VOA9_468115	U053008.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 17:08	VOA9_468115	U053008.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 17:08	VOA9_468115	U053008.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 17:08	VOA9_468115	U053008.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 17:08	VOA9_468115	U053008.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	05/30/24 17:08	VOA9_468115	U053008.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 17:08	VOA9_468115	U053008.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	05/30/24 17:08	VOA9_468115	U053008.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	05/30/24 17:08	VOA9_468115	U053008.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 17:08	VOA9_468115	U053008.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	05/30/24 17:08	VOA9_468115	U053008.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 17:08	VOA9_468115	U053008.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 17:08	VOA9_468115	U053008.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 17:08	VOA9_468115	U053008.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 17:08	VOA9_468115	U053008.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 17:08	VOA9_468115	U053008.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 17:08	VOA9_468115	U053008.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 17:08	VOA9_468115	U053008.D
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 17:08	VOA9_468115	U053008.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 17:08	VOA9_468115	U053008.D
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 17:08	VOA9_468115	U053008.D
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	05/30/24 17:08	VOA9_468115	U053008.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	05/30/24 17:08	VOA9_468115	U053008.D

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Form 2

System Monitoring Compound Recovery

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24051535

Client

Bhate Environmental Associates, Inc.

Project

LHAAP-58

06/24/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051535

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-468115

BatchQC

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24051490-05MS	Aqueous	05/31/24 00:04	%REC	10
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U053027.D	581.7	500	116		81-118
4-Bromofluorobenzene	U053027.D	586	500	117		85-114
Dibromofluoromethane	U053027.D	580	500	116		80-119
Toluene-d8	U053027.D	575.4	500	115		89-112

BatchQC

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24051490-05MSD	Aqueous	05/31/24 00:26	%REC	10
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U053028.D	582.1	500	116		81-118
4-Bromofluorobenzene	U053028.D	592.7	500	119		85-114
Dibromofluoromethane	U053028.D	578.8	500	116		80-119
Toluene-d8	U053028.D	579.6	500	116		89-112

35AWW19_052324

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24051535-01	Groundwater	05/30/24 18:56	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U053013.D	59	50	118		81-118
4-Bromofluorobenzene	U053013.D	55	50	109		85-114
Dibromofluoromethane	U053013.D	58	50	115		80-119
Toluene-d8	U053013.D	55	50	111		89-112

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051535

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-468115

LHSMW07_052324

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24051535-02	Groundwater	05/30/24 19:17	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U053014.D	59	50	117		81-118
4-Bromofluorobenzene	U053014.D	55	50	110		85-114
Dibromofluoromethane	U053014.D	57	50	114		80-119
Toluene-d8	U053014.D	56	50	111		89-112

35AWW20_052324

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24051535-03	Groundwater	05/30/24 21:07	%REC	5
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U053019.D	290	250	118		81-118
4-Bromofluorobenzene	U053019.D	270	250	107		85-114
Dibromofluoromethane	U053019.D	290	250	114		80-119
Toluene-d8	U053019.D	280	250	111		89-112

35AWW11_052324

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24051535-04	Groundwater	05/30/24 19:39	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U053015.D	59	50	118		81-118
4-Bromofluorobenzene	U053015.D	54	50	107		85-114
Dibromofluoromethane	U053015.D	57	50	114		80-119
Toluene-d8	U053015.D	55	50	111		89-112

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051535

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-468115

35AWW23_052324

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24051535-05	Groundwater	05/30/24 20:00	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U053016.D	59	50	118		81-118
4-Bromofluorobenzene	U053016.D	54	50	107		85-114
Dibromofluoromethane	U053016.D	57	50	114		80-119
Toluene-d8	U053016.D	55	50	111		89-112

35AWW06_052324

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24051535-06	Groundwater	05/30/24 20:22	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U053017.D	59	50	118		81-118
4-Bromofluorobenzene	U053017.D	54	50	109		85-114
Dibromofluoromethane	U053017.D	57	50	115		80-119
Toluene-d8	U053017.D	56	50	111		89-112

35AWW18_052324

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24051535-07	Groundwater	05/30/24 20:43	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U053018.D	59	50	118		81-118
4-Bromofluorobenzene	U053018.D	55	50	109		85-114
Dibromofluoromethane	U053018.D	58	50	116		80-119
Toluene-d8	U053018.D	56	50	111		89-112

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051535

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-468115

Trip Blank

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24051535-08	Water	05/30/24 17:08	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U053008.D	59	50	117		81-118
4-Bromofluorobenzene	U053008.D	56	50	111		85-114
Dibromofluoromethane	U053008.D	56	50	113		80-119
Toluene-d8	U053008.D	55	50	111		89-112

VBLKW-240530

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VBLKW-240530	Aqueous	05/30/24 16:25	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U053006.D	58.14	50	116		81-118
4-Bromofluorobenzene	U053006.D	56.36	50	113		85-114
Dibromofluoromethane	U053006.D	55.81	50	112		80-119
Toluene-d8	U053006.D	55.97	50	112		89-112

VLCSW-240530

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VLCSW-240530	Aqueous	05/30/24 15:19	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U053003.D	55.45	50	111		81-118
4-Bromofluorobenzene	U053003.D	56.26	50	113		85-114
Dibromofluoromethane	U053003.D	56.83	50	114		80-119
Toluene-d8	U053003.D	55.47	50	111		89-112

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051535

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-468115

VSTD050

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VSTD050	Aqueous	05/30/24 14:58	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U053002.D	56.67	50	113		80-120
4-Bromofluorobenzene	U053002.D	57.13	50	114		80-120
Dibromofluoromethane	U053002.D	58.78	50	118		80-120
Toluene-d8	U053002.D	57.8	50	116		80-120

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051535

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-468713

35AWW20_052324

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24051535-03	Groundwater	06/06/24 13:44	%REC	25
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U060610.D	1400	1250	109		81-118
4-Bromofluorobenzene	U060610.D	1300	1250	104		85-114
Dibromofluoromethane	U060610.D	1300	1250	102		80-119
Toluene-d8	U060610.D	1400	1250	108		89-112

BatchQC

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24051959-07MS	Aqueous	06/06/24 12:59	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U060608.D	53.03	50	106		81-118
4-Bromofluorobenzene	U060608.D	55.38	50	111		85-114
Dibromofluoromethane	U060608.D	51.79	50	104		80-119
Toluene-d8	U060608.D	54.39	50	109		89-112

BatchQC

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24051959-07MSD	Aqueous	06/06/24 13:20	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U060609.D	52.56	50	105		81-118
4-Bromofluorobenzene	U060609.D	56.46	50	113		85-114
Dibromofluoromethane	U060609.D	51.79	50	104		80-119
Toluene-d8	U060609.D	54.73	50	109		89-112

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051535

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-468713

VBLKW-240606

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VBLKW-240606	Aqueous	06/06/24 12:16	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U060606.D	53.89	50	108		81-118
4-Bromofluorobenzene	U060606.D	52.12	50	104		85-114
Dibromofluoromethane	U060606.D	50.98	50	102		80-119
Toluene-d8	U060606.D	54.25	50	108		89-112

VLCSDW-240606

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VLCSDW-240606	Aqueous	06/06/24 11:33	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U060604.D	51.3	50	103		81-118
4-Bromofluorobenzene	U060604.D	55.46	50	111		85-114
Dibromofluoromethane	U060604.D	50.86	50	102		80-119
Toluene-d8	U060604.D	54.49	50	109		89-112

VLCSW-240606

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VLCSW-240606	Aqueous	06/06/24 11:12	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U060603.D	52.45	50	105		81-118
4-Bromofluorobenzene	U060603.D	55.8	50	112		85-114
Dibromofluoromethane	U060603.D	52.92	50	106		80-119
Toluene-d8	U060603.D	54.56	50	109		89-112

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051535

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-468713

VSTD050		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VSTD050	Aqueous	06/06/24 10:50	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U060602.D	51.86	50	104		80-120
4-Bromofluorobenzene	U060602.D	57.19	50	114		80-120
Dibromofluoromethane	U060602.D	52	50	104		80-120
Toluene-d8	U060602.D	55.38	50	111		80-120

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Form 3A

Matrix Spike/Spike Duplicate Recovery

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24051535

Client

Bhate Environmental Associates, Inc.

Project

LHAAP-58

06/24/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051535

Volatiles by EPA Volatiles Organics by Method 8260C

SAMPLENUM HS24051490-05MS

BatchQC (HS24051490-05)				HS24051490-05MS				HS24051490-05MSD						
Spike Matrix Aqueous	Result Units ug/L			Run Date 05/31/24				Run Date 05/31/24						
Instrument ID VOA9				Run Time 00:04				Run Time 00:26						
				Data File U053027.D				Data File U053028.D						
Analyte	%R Limits	DF	Sample Result	MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
1,1,1,2-Tetrachloroethane	78-124	10	0	171.998	200	86		167.368	200	84		20	2.73	
1,1,1-Trichloroethane	74-131	10	0	197.649	200	99		192.412	200	96		20	2.69	
1,1,2,2-Tetrachloroethane	71-121	10	0	154.606	200	77		153.085	200	76		20	0.989	
1,1,2-Trichloroethane	80-119	10	0	180.299	200	90		178.527	200	89		20	0.987	
1,1-Dichloroethane	77-125	10	0	178.167	200	89		176.441	200	88		20	0.974	
1,1-Dichloroethene	71-131	10	17.9	193.942	200	88		191.095	200	87		20	1.48	
1,1-Dichloropropene	78-125	10	0	178.948	200	90		180.278	200	90		20	0.741	
1,2,3-Trichlorobenzene	69-129	10	0	154.271	200	77		156.019	200	78		20	1.13	
1,2,3-Trichloropropane	73-122	10	0	153.044	200	76		155.070	200	78		20	1.32	
1,2,4-Trichlorobenzene	69-130	10	0	155.509	200	78		153.208	200	77		20	1.49	
1,2,4-Trimethylbenzene	76-124	10	0	161.638	200	81		160.802	200	80		20	0.519	
1,2-Dibromo-3-chloropropane	62-128	10	0	137.001	200	68		126.918	200	64		20	7.64	
1,2-Dibromoethane	77-121	10	0	157.055	200	78		156.334	200	78		20	0.46	
1,2-Dichlorobenzene	80-119	10	0	164.525	200	82		163.156	200	82		20	0.835	
1,2-Dichloroethane	73-128	10	13.52	200.614	200	94		192.412	200	89		20	4.17	
1,2-Dichloropropane	78-122	10	0	177.470	200	89		169.115	200	85		20	4.82	
1,3,5-Trimethylbenzene	75-124	10	0	183.644	200	92		180.485	200	90		20	1.74	
1,3-Dichlorobenzene	80-119	10	0	171.531	200	86		169.657	200	85		20	1.1	
1,3-Dichloropropane	80-119	10	0	166.889	200	83		165.829	200	83		20	0.638	
1,4-Dichlorobenzene	79-118	10	0	164.682	200	82		162.140	200	81		20	1.56	
2,2-Dichloropropane	60-139	10	0	156.576	200	78		148.644	200	74		20	5.2	
2-Butanone	56-143	10	0	325.194	400	81		316.692	400	79		20	2.65	
2-Chlorotoluene	79-122	10	0	191.696	200	96		189.002	200	94		20	1.42	
2-Hexanone	57-139	10	0	340.269	400	85		337.631	400	84		20	0.778	
4-Chlorotoluene	78-122	10	0	176.933	200	88		173.241	200	87		20	2.11	
4-Isopropyltoluene	77-127	10	0	186.369	200	93		184.007	200	92		20	1.28	
4-Methyl-2-pentanone	67-130	10	0	345.537	400	86		343.183	400	86		20	0.684	
Acetone	39-160	10	0	308.060	400	77		333.722	400	83		20	8	
Benzene	79-120	10	0	174.908	200	88		167.412	200	84		20	4.38	
Bromobenzene	80-120	10	0	167.592	200	84		162.799	200	81		20	2.9	
Bromochloromethane	78-123	10	0	179.590	200	90		173.985	200	87		20	3.17	
Bromodichloromethane	79-125	10	0	174.370	200	87		169.068	200	84		20	3.09	

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051535

Volatiles by EPA Volatiles Organics by Method 8260C

SAMPLENUM HS24051490-05MS

BatchQC (HS24051490-05)				HS24051490-05MS				HS24051490-05MSD						
Spike Matrix Aqueous	Result Units ug/L			Run Date 05/31/24				Run Date 05/31/24						
Instrument ID VOA9				Run Time 00:04				Run Time 00:26						
				Data File U053027.D				Data File U053028.D						
Analyte	%R Limits	DF	Sample Result	MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
Bromoform	66-130	10	0	146.515	200	73		146.429	200	73		20	0.0593	
Bromomethane	53-141	10	0	183.011	200	92		178.037	200	89		20	2.76	
Carbon disulfide	64-133	10	0	375.079	400	94		362.892	400	91		20	3.3	
Carbon tetrachloride	72-136	10	0	190.086	200	95		183.116	200	92		20	3.74	
Chlorobenzene	82-118	10	0	172.724	200	86		168.031	200	84		20	2.75	
Chloroethane	60-138	10	0	224.000	200	112		216.683	200	108		20	3.32	
Chloroform	79-124	10	0	180.162	200	90		175.745	200	88		20	2.48	
Chloromethane	50-139	10	0	258.097	200	129		245.841	200	123		20	4.86	
cis-1,2-Dichloroethene	78-123	10	0	167.693	200	84		163.411	200	82		20	2.59	
cis-1,3-Dichloropropene	75-124	10	0	154.184	200	77		151.484	200	76		20	1.77	
Dibromochloromethane	74-126	10	0	159.164	200	80		154.962	200	78		20	2.68	
Dibromomethane	79-123	10	0	169.812	200	85		170.888	200	85		20	0.632	
Dichlorodifluoromethane	32-152	10	0	246.608	200	123		239.055	200	120		20	3.11	
Ethylbenzene	79-121	10	0	192.663	200	96		183.280	200	92		20	4.99	
Hexachlorobutadiene	66-134	10	0	177.366	200	89		175.208	200	88		20	1.22	
Isopropylbenzene	72-131	10	0	194.552	200	97		187.548	200	94		20	3.67	
m,p-Xylene	80-121	10	0	359.553	400	90		354.334	400	89		20	1.46	
Methylene chloride	74-124	10	0	184.875	200	92		182.448	200	91		20	1.32	
Naphthalene	61-128	10	0	141.437	200	71		145.255	200	73		20	2.66	
n-Butylbenzene	75-128	10	0	185.209	200	93		181.223	200	91		20	2.18	
n-Propylbenzene	76-126	10	0	181.698	200	91		177.568	200	89		20	2.3	
o-Xylene	78-122	10	0	183.409	200	92		180.089	200	90		20	1.83	
sec-Butylbenzene	77-126	10	0	190.696	200	95		186.876	200	93		20	2.02	
Styrene	78-123	10	0	185.690	200	93		181.288	200	91		20	2.4	
tert-Butylbenzene	78-124	10	0	195.299	200	98		196.194	200	98		20	0.457	
Tetrachloroethene	74-129	10	0	196.018	200	98		188.460	200	94		20	3.93	
Toluene	80-121	10	0	173.685	200	87		166.205	200	83		20	4.4	
trans-1,2-Dichloroethene	75-124	10	0	178.766	200	89		174.415	200	87		20	2.46	
trans-1,3-Dichloropropene	73-127	10	0	152.834	200	76		151.190	200	76		20	1.08	
Trichloroethene	79-123	10	1067	1232.05	200	82		1172.27	200	52		20	4.97	
Trichlorofluoromethane	65-141	10	0	229.679	200	115		222.280	200	111		20	3.27	
Vinyl chloride	58-137	10	0	222.667	200	111		213.931	200	107		20	4	

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client	Bhate Environmental Associates, Inc.	Workorder	HS24051535
Project	LHAAP-58		

Volatiles by EPA Volatiles Organics by Method 8260C

SAMPLENUM
HS24051490-05MS

BatchQC (HS24051490-05)				HS24051490-05MS		HS24051490-05MSD		
Spike Matrix	Aqueous	Result Units	ug/L	Run Date	05/31/24	Run Date	05/31/24	
Instrument ID	VOA9			Run Time	00:04	Run Time	00:26	
				Data File	U053027.D	Data File	U053028.D	

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits OL - Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051535

SAMPLENUM HS24051959-07MS

Volatiles by EPA Volatiles Organics by Method 8260C

BatchQC (HS24051959-07)				HS24051959-07MS				HS24051959-07MSD					
Spike Matrix Aqueous	Result Units ug/L			Run Date 06/06/24				Run Date 06/06/24					
Instrument ID VOA9				Run Time 12:59				Run Time 13:20					
				Data File U060608.D				Data File U060609.D					
Analyte	%R Limits	DF	Sample Result	MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
1,1-Dichloroethene	71-131	1	3.558	21.2307	20	88		20.2209	20	83		20	4.87	

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits OL - Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

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Form 3B

Laboratory Control Sample Recovery

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24051535

Client

Bhate Environmental Associates, Inc.

Project

LHAAP-58

06/24/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051535

Volatiles by EPA Volatiles Organics by Method 8260C

SAMPLENUM VLCSW-240530

VOA9_468115			VLCSW-240530				
Spike Matrix Aqueous	Result Units ug/L		Run Date 05/30/24 Run Time 15:19				
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q		
1,1,1,2-Tetrachloroethane	78-124	20	18.08	90.4			
1,1,1-Trichloroethane	74-131	20	20.1	101			
1,1,2,2-Tetrachloroethane	71-121	20	18.31	91.5			
1,1,2-Trichloroethane	80-119	20	19.46	97.3			
1,1-Dichloroethane	77-125	20	17.98	89.9			
1,1-Dichloroethene	71-131	20	18.85	94.2			
1,1-Dichloropropene	78-125	20	19.28	96.4			
1,2,3-Trichlorobenzene	69-129	20	18.82	94.1			
1,2,3-Trichloropropane	73-122	20	17.62	88.1			
1,2,4-Trichlorobenzene	69-130	20	18.4	92.0			
1,2,4-Trimethylbenzene	76-124	20	18.1	90.5			
1,2-Dibromo-3-chloropropane	62-128	20	17.6	88.0			
1,2-Dibromoethane	77-121	20	18.53	92.7			
1,2-Dichlorobenzene	80-119	20	18.51	92.5			
1,2-Dichloroethane	73-128	20	19.87	99.3			
1,2-Dichloropropane	78-122	20	18.31	91.6			
1,3,5-Trimethylbenzene	75-124	20	19.28	96.4			
1,3-Dichlorobenzene	80-119	20	18.78	93.9			
1,3-Dichloropropane	80-119	20	17.96	89.8			
1,4-Dichlorobenzene	79-118	20	17.85	89.3			
2,2-Dichloropropane	60-139	20	19.26	96.3			
2-Butanone	56-143	40	37.31	93.3			
2-Chlorotoluene	79-122	20	20.22	101			
2-Hexanone	57-139	40	41.34	103			
4-Chlorotoluene	78-122	20	18.92	94.6			
4-Isopropyltoluene	77-127	20	19.82	99.1			
4-Methyl-2-pentanone	67-130	40	37.81	94.5			
Acetone	39-160	40	45.96	115			
Benzene	79-120	20	18.88	94.4			
Bromobenzene	80-120	20	18.26	91.3			
Bromochloromethane	78-123	20	19.57	97.9			
Bromodichloromethane	79-125	20	17.49	87.4			
Bromoform	66-130	20	16.09	80.5			
Bromomethane	53-141	20	19.96	99.8			
Carbon disulfide	64-133	40	37.46	93.7			

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051535

Volatiles by EPA Volatiles Organics by Method 8260C

SAMPLENUM VLCSW-240530

VOA9_468115			VLCSW-240530				
Spike Matrix Aqueous	Result Units ug/L		Run Date 05/30/24 Run Time 15:19				
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q		
Carbon tetrachloride	72-136	20	18.53	92.7			
Chlorobenzene	82-118	20	17.91	89.5			
Chloroethane	60-138	20	21.45	107			
Chloroform	79-124	20	18.32	91.6			
Chloromethane	50-139	20	22.01	110			
cis-1,2-Dichloroethene	78-123	20	17.96	89.8			
cis-1,3-Dichloropropene	75-124	20	18.17	90.8			
Dibromochloromethane	74-126	20	17.18	85.9			
Dibromomethane	79-123	20	18.34	91.7			
Dichlorodifluoromethane	32-152	20	21.42	107			
Ethylbenzene	79-121	20	19.73	98.6			
Hexachlorobutadiene	66-134	20	19.39	96.9			
Isopropylbenzene	72-131	20	19.42	97.1			
m,p-Xylene	80-121	40	37.61	94.0			
Methylene chloride	74-124	20	19.82	99.1			
Naphthalene	61-128	20	19.07	95.3			
n-Butylbenzene	75-128	20	19.73	98.7			
n-Propylbenzene	76-126	20	19.17	95.9			
o-Xylene	78-122	20	18.8	94.0			
sec-Butylbenzene	77-126	20	19.89	99.5			
Styrene	78-123	20	18.71	93.6			
tert-Butylbenzene	78-124	20	19.96	99.8			
Tetrachloroethene	74-129	20	19.75	98.7			
Toluene	80-121	20	17.63	88.1			
trans-1,2-Dichloroethene	75-124	20	18.26	91.3			
trans-1,3-Dichloropropene	73-127	20	18.02	90.1			
Trichloroethene	79-123	20	18.26	91.3			
Trichlorofluoromethane	65-141	20	20.81	104			
Vinyl chloride	58-137	20	20.37	102			

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051535

SAMPLENUM VLCSW-240606

Volatiles by EPA Volatiles Organics by Method 8260C

VOA9_468713			VLCSW-240606			VLCSDW-240606					
Spike Matrix Aqueous	Result Units ug/L		Run Date 06/06/24 Run Time 11:12			Run Date 06/06/24 Run Time 11:33					
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q	LCSD Result	%R	Q	RPD Limit	RPD	Q
1,1-Dichloroethene	71-131	20	19.5	98		17.45	87		20	11.1	

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Form 4

Method Blank Summary

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24051535

Client

Bhate Environmental Associates, Inc.

Project

LHAAP-58

06/24/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 4 - Method Blank Summary

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051535

Volatiles by EPA Volatiles Organics by Method 8260C

METHOD BLANK	Matrix	Analysis Date	Analysis Batch	Inst ID
VBLKW-240530	Aqueous	05/30/24 16:25	R468115	VOA9

Client Sample ID	Lab Sample ID	Type	Analysis Date	Analysis Batch	Inst ID	FileID
VLCSW-240530	VLCSW-240530	LCS	05/30/24 15:19	R468115	VOA9	U053003.D
Trip Blank	HS24051535-08	SAMP	05/30/24 17:08	R468115	VOA9	U053008.D
35AWW19_052324	HS24051535-01	SAMP	05/30/24 18:56	R468115	VOA9	U053013.D
LHSMW07_052324	HS24051535-02	SAMP	05/30/24 19:17	R468115	VOA9	U053014.D
35AWW11_052324	HS24051535-04	SAMP	05/30/24 19:39	R468115	VOA9	U053015.D
35AWW23_052324	HS24051535-05	SAMP	05/30/24 20:00	R468115	VOA9	U053016.D
35AWW06_052324	HS24051535-06	SAMP	05/30/24 20:22	R468115	VOA9	U053017.D
35AWW18_052324	HS24051535-07	SAMP	05/30/24 20:43	R468115	VOA9	U053018.D
35AWW20_052324	HS24051535-03	SAMP	05/30/24 21:07	R468115	VOA9	U053019.D
BatchQC	HS24051490-05MS	MS	05/31/24 00:04	R468115	VOA9	U053027.D
BatchQC	HS24051490-05MSD	MSD	05/31/24 00:26	R468115	VOA9	U053028.D

Form 4 - Method Blank Summary

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051535

Volatiles by EPA Volatiles Organics by Method 8260C

METHOD BLANK	Matrix	Analysis Date	Analysis Batch	Inst ID
VBLKW-240606	Aqueous	06/06/24 12:16	R468713	VOA9

Client Sample ID	Lab Sample ID	Type	Analysis Date	Analysis Batch	Inst ID	FileID
VLCSW-240606	VLCSW-240606	LCS	06/06/24 11:12	R468713	VOA9	U060603.D
VLCSDW-240606	VLCSDW-240606	LCSD	06/06/24 11:33	R468713	VOA9	U060604.D
BatchQC	HS24051959-07MS	MS	06/06/24 12:59	R468713	VOA9	U060608.D
BatchQC	HS24051959-07MSD	MSD	06/06/24 13:20	R468713	VOA9	U060609.D
35AWW20_052324	HS24051535-03	SAMP	06/06/24 13:44	R468713	VOA9	U060610.D

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Form 5

Instrument Performance Check

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24051535

Client

Bhate Environmental Associates, Inc.

Project

LHAAP-58

06/24/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: V9

Lab File ID: W060501 BFB Injection Date: 06/05/24

Instrument ID: VOA9 BFB Injection Time: 1836

GC Column: DB624 ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
168	Base Peak, 100% relative abundance	100.0

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD00.25	VSTD00.25	W060502	06/05/24	1858
02	VSTD00.5	VSTD00.5	W060503	06/05/24	1920
03	VSTD001	VSTD001	W060504	06/05/24	1941
04	VSTD002	VSTD002	W060505	06/05/24	2003
05	VSTD005	VSTD005	W060506	06/05/24	2024
06	VSTD020	VSTD020	W060507	06/05/24	2046
07	VSTD050	VSTD050	W060508	06/05/24	2107
08	VSTD100	VSTD100	W060509	06/05/24	2129
09	VSTD150	VSTD150	W060510	06/05/24	2150
10	VSTD200	VSTD200	W060511	06/05/24	2212
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM V VOA

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: V9

Lab File ID: W060513 BFB Injection Date: 06/05/24

Instrument ID: VOA9 BFB Injection Time: 2255

GC Column: DB624 ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.0
75	30.0 - 60.0% of mass 95	50.8
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	83.8
175	5.0 - 9.0% of mass 174	7.4 (8.8)1
176	95.0 - 101.0% of mass 174	80.6 (96.3)1
177	5.0 - 9.0% of mass 176	5.8 (7.2)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	VSTD050	W060514A	06/05/24	2338
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: V9

Lab File ID: U052901 BFB Injection Date: 05/29/24

Instrument ID: VOA9 BFB Injection Time: 1017

GC Column: DB624 ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.3
75	30.0 - 60.0% of mass 95	46.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	93.6
175	5.0 - 9.0% of mass 174	7.8 (8.3)1
176	95.0 - 101.0% of mass 174	90.8 (97.1)1
177	5.0 - 9.0% of mass 176	6.0 (6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD00.25	VSTD00.25	U052902	05/29/24	1039
02	VSTD00.5	VSTD00.5	U052903	05/29/24	1100
03	VSTD001	VSTD001	U052904	05/29/24	1122
04	VSTD002	VSTD002	U052905	05/29/24	1143
05	VSTD005	VSTD005	U052906	05/29/24	1205
06	VSTD020	VSTD020	U052907	05/29/24	1226
07	VSTD050	VSTD050	U052908	05/29/24	1248
08	VSTD100	VSTD100	U052909	05/29/24	1310
09	VSTD150	VSTD150	U052910	05/29/24	1331
10	VSTD200	VSTD200	U052911	05/29/24	1353
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: V9

Lab File ID: U052913 BFB Injection Date: 05/29/24

Instrument ID: VOA9 BFB Injection Time: 1436

GC Column: DB624 ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.3
75	30.0 - 60.0% of mass 95	47.1
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	87.4
175	5.0 - 9.0% of mass 174	7.3 (8.4)1
176	95.0 - 101.0% of mass 174	84.7 (96.9)1
177	5.0 - 9.0% of mass 176	5.8 (6.9)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	VSTD050	U052914	05/29/24	1458
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

Form 5 - Instrument Performance Check

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder **HS24051535**

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-468115

Tune File U053001.D 05/30/24 5/30/2024

m / e	Ion Abundance Criterion	%RA
50	15.0 - 40.0% of mass 95	18.3 (18.3)
75	30.0 - 60.0% of mass 95	48.6 (48.6)
95	Base peak, 100% RA	100 (100)
96	5.0 - 9.0% of mass 95	7.1 (7.09)
173	Less than 2.0% of mass 174	0 (0) 1
174	greater than 50.0% of mass 95	84.9 (84.9) 1
175	5.0 - 9.0% of mass 174	7.6 (8.99) 1
176	> 95% but < 101% of mass 174	81.5 (95.9) 1
177	5.0 - 9.0% of mass 176	5.6 (6.93) 2

%RA - Percent Relative Abundance

This check applies to the following analyses

	Lab Samp ID	Type	Date Analyzed	Lab File ID	Sample ID
1	VSTD050	CCV	5/30/2024	U053002	VSTD050
2	VLCSW-	LCS	5/30/2024	U053003	VLCSW-240530
3	VBLKW-	MBLK	5/30/2024	U053006	VBLKW-240530
4	HS24051535-	SAMP	5/30/2024	U053008	Trip Blank
5	HS24051535-	SAMP	5/30/2024	U053013	35AWW19_052324
6	HS24051535-	SAMP	5/30/2024	U053014	LHSMW07_052324
7	HS24051535-	SAMP	5/30/2024	U053015	35AWW11_052324
8	HS24051535-	SAMP	5/30/2024	U053016	35AWW23_052324
9	HS24051535-	SAMP	5/30/2024	U053017	35AWW06_052324
10	HS24051535-	SAMP	5/30/2024	U053018	35AWW18_052324
11	HS24051535-	SAMP	5/30/2024	U053019	35AWW20_052324
12	HS24051490-	MS	5/31/2024	U053027	ZZZZZZMS
13	HS24051490-	MSD	5/31/2024	U053028	ZZZZZZMSD
14	CCV	CCV_EN	5/31/2024	U053029	CCV

Form 5 - Instrument Performance Check

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder **HS24051535**

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-468713

Tune File U060601.D 06/06/24 6/6/2024

m / e	Ion Abundance Criterion	%RA
50	15.0 - 40.0% of mass 95	19.3 (19.3)
75	30.0 - 60.0% of mass 95	50.5 (50.5)
95	Base peak, 100% RA	100 (100)
96	5.0 - 9.0% of mass 95	6.8 (6.81)
173	Less than 2.0% of mass 174	0 (0) 1
174	greater than 50.0% of mass 95	96 (96) 1
175	5.0 - 9.0% of mass 174	7.7 (8.02) 1
176	> 95% but < 101% of mass 174	91.3 (95) 1
177	5.0 - 9.0% of mass 176	5.7 (6.2) 2

%RA - Percent Relative Abundance

This check applies to the following analyses

	Lab Samp ID	Type	Date Analyzed	Lab File ID	Sample ID
1	VSTD050	CCV	6/6/2024	U060602	VSTD050
2	VLCSW-	LCS	6/6/2024	U060603	VLCSW-240606
3	VLCSDW-	LCSD	6/6/2024	U060604	VLCSDW-240606
4	VBLKW-	MBLK	6/6/2024	U060606	VBLKW-240606
5	HS24051959-	MS	6/6/2024	U060608	ZZZZZZMS
6	HS24051959-	MSD	6/6/2024	U060609	ZZZZZZMSD
7	HS24051535-	SAMP	6/6/2024	U060610	35AWW20_052324
8	VSTD050	CCV_EN	6/6/2024	U060629	VSTD050

Report Date : 22-Jun-2024 08:44 Page 1

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 03-JUN-2024 17:24
End Cal Date : 05-JUN-2024 22:12
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\8260C.m
Last Edit : 21-Jun-2024 17:31 r.patel

Calibration File Names:
Level 1: \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060502.D
Level 2: \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060503.D
Level 3: \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060504.D
Level 4: \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060505.D
Level 5: \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060506.D
Level 6: \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060507.D
Level 7: \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060508.D
Level 8: \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060509.D
Level 9: \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060510.D
Level 10: \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060511.D

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
2 Dichlorodifluoromethane	+++++	284	674	728	3261	12496						
	33264	66430	108701	145581			LINR	0.01595	0.15774		0.99876	<-
3 Chloromethane	+++++	4840	5603	7473	16295	52001						
	137470	266239	381192	489120			LINR	-0.07164	0.53883		0.99615	
4 Propionitrile	+++++	1894	2734	4275	10006	40218						
	106147	209211	325941	456063			LINR	0.02905	0.04859		0.99949	

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 03-JUN-2024 17:24
End Cal Date : 05-JUN-2024 22:12
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\8260C.m
Last Edit : 21-Jun-2024 17:31 r.patel

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
5 Vinyl Chloride	+++++	0.39954	0.39431	0.26144	0.36432	0.31117					
	0.32678	0.32102	0.34096	0.33623			AVRG		0.33953		12.59808
6 Bromomethane	+++++	1163	1336	2007	3935	12706					
	32479	66230	103324	142717			LINR	-0.01113	0.15204		0.99954
7 Chloroethane	+++++	920	1372	2264	5724	19725					
	53556	107274	167664	226867			LINR	-0.00364	0.24465		0.99962
8 Trichlorofluoromethane	+++++	0.42872	0.50517	0.29609	0.48314	0.42350					
	0.45247	0.43372	0.46809	0.44938			AVRG		0.43781		13.57248
9 Acrolein	+++++	309	319	566	842	2397					
	8034	15155	22474	35211			QUAD	-0.09285	67.18827	-87.30112	0.99774
10 Acetone	+++++	2389	2573	3897	7303	23436					
	64098	112184	171689	242163			LINR	-0.08579	0.12757		0.99856
11 1,1-Dichloroethene	+++++	0.33130	0.33357	0.22339	0.30237	0.26673					
	0.27725	0.26952	0.29213	0.28460			AVRG		0.28676		11.86245

Report Date : 22-Jun-2024 08:44 Page 3

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 03-JUN-2024 17:24
End Cal Date : 05-JUN-2024 22:12
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\8260C.m
Last Edit : 21-Jun-2024 17:31 r.patel

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
12 Isobutyl Alcohol	+++++	0.06564	0.05518	0.05141	0.04708	0.04653						
	0.05285	0.05211	0.05357	0.05422			AVRG		0.05318		10.43509	
13 Acetonitrile	+++++	1332	1908	3507	8857	35153						
	88484	179078	282036	386763			LINR	0.03534	0.04150		0.99954	
14 Allyl Chloride	+++++	2988	4870	8420	19908	78943						
	201356	407504	639130	874172			LINR	0.00146	0.93896		0.99962	
15 Iodomethane	+++++	1019	1107	1359	2881	9380						
	29057	88741	+++++	+++++			QUAD	-0.04480	18.08271	-19.86001	0.99953	<-
16 Acrylonitrile	+++++	1178	1798	2585	5811	21490						
	55197	110053	168175	230885			LINR	-0.02957	0.12367		0.99988	
17 Methylene Chloride	+++++	2251	2735	4211	9288	29540						
	76359	153032	226783	314968			LINR	-0.02782	0.33578		0.99994	
18 Methyl tert-butyl ether	+++++	3012	4478	8274	18303	72150						
	184999	370094	572755	796968			LINR	-0.00097	0.85068		0.99969	

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Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
19 Carbon Disulfide	+++++	1.06338	0.91589	0.67174	0.77888	0.73246					
	0.78449	0.78427	0.83896	0.82689			AVRG		0.82189		13.78415
20 trans-1,2-Dichloroethene	+++++	879	1615	2486	6873	24223					
	66993	135099	208803	285675			LINR	0.00147	0.30745		0.99979
21 Vinyl Acetate	+++++	1568	1876	2901	6797	29884					
	86076	178473	258861	366892			LINR	0.00901	0.19626		0.99969
22 1,1-Dichloroethane	+++++	1917	3367	5205	13484	49079					
	132515	267743	401447	557243			LINR	-0.00638	0.59706		0.99995
23 Chloroprene	+++++	0.64480	0.50393	0.44262	0.49815	0.46290					
	0.49185	0.49829	0.52499	0.52009			AVRG		0.50974		11.16239
24 2-Butanone	+++++	2623	3070	4205	7617	28126					
	82452	162105	244157	343950			LINR	-0.01536	0.18293		0.99961
25 Methacrylonitrile	+++++	722	1301	1556	3984	16755					
	45303	97174	148796	215084			LINR	0.02941	0.22787		0.99871

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	50.0000 Level 7	100.0000 Level 8	150.0000 Level 9	200.0000 Level 10							
26 2,2-Dichloropropane	+++++	0.53602	0.43974	0.35228	0.39268	0.37096					
	0.41311	0.42375	0.44997	0.45058			AVRG		0.42545		12.66111
27 cis-1,2-Dichloroethene	+++++	1284	1821	3282	7546	28739					
	80088	163681	250121	344361			LINR	0.00341	0.37024		0.99988
28 Chloroform	+++++	0.81392	0.78861	0.66072	0.65104	0.58240					
	0.61497	0.60329	0.60948	0.60641			AVRG		0.65898		12.80832
29 Bromochloromethane	+++++	747	854	1634	3834	14487					
	40291	81350	119214	165957			LINR	-0.01035	0.17801		0.99985
31 1,1,1-Trichloroethane	+++++	0.53206	0.48196	0.39638	0.44371	0.42724					
	0.48319	0.47483	0.51154	0.50754			AVRG		0.47316		9.20492
32 1,1-Dichloropropene	+++++	0.42975	0.30442	0.27945	0.32126	0.29219					
	0.31296	0.30989	0.32889	0.32757			AVRG		0.32293		13.37189
33 1,2-Dichloroethane	+++++	1732	2470	4597	11017	41071					
	111560	223618	330090	456558			LINR	-0.01306	0.34101		0.99983

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34 Carbon Tetrachloride	+++++	0.28985	0.30120	0.18601	0.23996	0.23454						
	0.27294	0.27692	0.29870	0.29813			AVRG		0.26647		14.61877	
37 Benzene	+++++	4327	6794	11775	28522	106397						
	297605	606369	918326	1272684			LINR	0.00253	0.94987		0.99991	
38 Trichloroethene	+++++	0.28281	0.27321	0.22839	0.25051	0.22645						
	0.24579	0.23747	0.24855	0.24786			AVRG		0.24901		7.52601	
39 Bromodichloromethane	+++++	0.39620	0.28220	0.27034	0.24816	0.25727						
	0.29303	0.30282	0.30815	0.31181			AVRG		0.29667		14.65747	
40 Methyl Methacrylate	+++++	+++++	884	1485	2092	11132						
	31423	66130	106205	149326			LINR	0.04581	0.16000		0.99843	<-
41 2-Chloroethylvinyl ether	+++++	189	308	675	1922	9480						
	33395	88149	150387	229637			QUAD	0.11965	16.12850	-6.89926	0.99803	
42 1,2-Dichloropropane	+++++	1317	1675	3585	7788	30155						
	83760	171059	255544	354491			LINR	-0.00143	0.26469		0.99994	

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43 2-Nitropropane	+++++	0.06082	0.04963	0.06237	0.06048	0.06531						
	0.07564	0.08403	0.09293	0.09720			AVRG		0.07204		22.63024	<-
44 Dibromomethane	+++++	694	1022	1788	4516	17413						
	48965	99903	145069	204532			LINR	-0.00366	0.15220		0.99976	
45 4-Methyl-2-Pentanone	+++++	2528	3077	5646	13477	56134						
	166404	363354	539055	765349			LINR	0.05254	0.31216		0.99954	
46 cis-1,3-Dichloropropene	+++++	1067	1599	3116	8170	35170						
	112080	250907	381863	547834			LINR	0.04916	0.40731		0.99885	
49 Ethyl Methacrylate	+++++	0.41163	0.30018	0.26956	0.26206	0.30268						
	0.31953	0.32597	0.35806	0.36172			AVRG		0.32349		14.70651	
50 Toluene	+++++	1.40232	1.21413	1.01507	1.05759	1.03095						
	1.09951	1.05837	1.09051	1.07760			AVRG		1.11623		10.88752	
51 trans-1,3-Dichloropropene	+++++	715	1337	2198	5800	29131						
	93193	208066	320938	455455			LINR	0.05242	0.33997		0.99893	

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	50.0000 Level 7	100.0000 Level 8	150.0000 Level 9	200.0000 Level 10								
52 2-Hexanone	+++++ 117753	2401 231901	3890 365524	6307 508784	15779	50519	LINR	-0.02890	0.20557		0.99894	
53 1,1,2-Trichloroethane	+++++ 61653	916 125721	1192 185722	2412 258307	5854	22461	LINR	-0.00422	0.21122		0.99993	
54 1,3-Dichloropropane	+++++ 132384	1886 273313	2645 401664	4929 556124	11941	46487	LINR	-0.00097	0.45632		0.99990	
55 Dibromochloromethane	+++++ 72142	603 157625	991 236457	1913 336013	4936	23412	LINR	0.03793	0.27457		0.99939	
56 Tetrachloroethene	+++++ 0.21507	0.22236 0.20445	0.27042 0.21821	0.18884 0.21678	0.21702	0.19956	AVRG		0.21697		10.48780	<-
57 1,2-Dibromoethane	+++++ 72541	908 148566	1394 220913	2307 310250	5821	24396	LINR	0.01164	0.25353		0.99979	
58 1-Chlorohexane	+++++ 61251	3325 126267	3967 208843	4419 282886	8603	22935	LINR	-0.00267	0.21021		0.99781	

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59 Chlorobenzene	+++++ / 201213	2889 / 410301	4601 / 613010	8144 / 847312	19728	72064	LINR	-0.00277	0.69384		0.99991	
60 1,1,1,2-Tetrachloroethane	+++++ / 0.24902	0.26705 / 0.25013	0.24046 / 0.25747	0.22427 / 0.26206	0.21064	0.21332	AVRG		0.24160		8.66426	
61 Ethylbenzene	+++++ / 0.36276	0.43789 / 0.35254	0.34809 / 0.36782	0.31232 / 0.36497	0.33641	0.32540	AVRG		0.35647		10.05265	
62 m,p-Xylenes	+++++ / 0.46328	0.51214 / 0.44796	0.43216 / 0.46624	0.38299 / 0.45930	0.40815	0.41445	AVRG		0.44296		8.65906	
63 o-Xylene	+++++ / 0.45271	0.46062 / 0.43920	0.44199 / 0.44705	0.37585 / 0.44591	0.38541	0.40989	AVRG		0.42874		7.15871	
64 Styrene	+++++ / 0.74526	0.72767 / 0.73906	0.66909 / 0.75628	0.58931 / 0.75023	0.60917	0.65437	AVRG		0.69338		9.28727	
65 cis-1,4-Dichloro-2-butene	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-

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66 Bromoform	+++++	366	645	1212	2656	12657						
	43376	98710	153936	223996			LINR	0.07040	0.18196		0.99717	<-
67 Isopropylbenzene	+++++	0.95306	0.94886	0.83733	0.96237	0.98762						
	1.13271	1.07882	1.14332	1.12047			AVRG		1.01828		10.34168	
68 1,1,2,2-Tetrachloroethane	+++++	1446	2094	4084	9596	37438						
	105142	214761	312825	431182			LINR	-0.00538	0.66047		0.99981	
71 1,2,3-Trichloropropane	+++++	1453	2024	3957	7709	35060						
	102444	217627	323632	460553			LINR	0.02541	0.69926		0.99911	
72 trans-1,4-Dichloro-2-butene	+++++	294	491	824	1921	7145						
	21076	46658	71862	93721			LINR	0.01376	0.07875		0.99839	
73 n-Propylbenzene	+++++	2.42500	2.32678	1.80982	2.07575	2.08574						
	2.45755	2.36347	2.50692	2.40570			AVRG		2.27297		10.18901	
74 Bromobenzene	+++++	1069	1882	3263	7851	31330						
	88012	180396	270926	372976			LINR	0.00600	0.57083		0.99984	

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75 1,3,5-Trimethylbenzene	+++++	1.50085	1.35754	1.17604	1.29762	1.39314					
	1.67855	1.63505	1.72950	1.70232			AVRG		1.49674		13.38840
76 2-Chlorotoluene	+++++	1.83585	1.53996	1.36035	1.38439	1.32694					
	1.47805	1.42502	1.46607	1.44863			AVRG		1.47392		10.20452
77 4-Chlorotoluene	+++++	2.10477	1.65236	1.63429	1.57235	1.51851					
	1.71762	1.66983	1.71247	1.69423			AVRG		1.69738		9.79219
78 tert-Butylbenzene	+++++	1.47909	1.33143	1.09295	1.28975	1.27277					
	1.47090	1.41671	1.49642	1.45863			AVRG		1.36763		9.74814
79 1,2,4-Trimethylbenzene	+++++	1.73636	1.44004	1.30302	1.31443	1.37360					
	1.67760	1.65752	1.73328	1.69675			AVRG		1.54807		12.02787
80 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
81 sec-Butylbenzene	+++++	1.67573	1.82153	1.35606	1.67325	1.70315					
	2.01442	1.93520	2.07838	2.01521			AVRG		1.80810		12.76115

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82 p-Isopropyltoluene	+++++	1.42546	1.42945	1.16801	1.38158	1.40681						
	1.73396	1.69569	1.81332	1.76826			AVRG		1.53584		14.46902	
83 1,3-Dichlorobenzene	+++++	1.40525	1.15279	1.02535	0.96960	0.90613						
	1.01898	0.98675	1.01120	0.98875			AVRG		1.05164		14.05334	
84 1,4-Dichlorobenzene	+++++	2283	3841	7121	15200	58041						
	162529	331801	499141	675420			LINR	-0.00301	1.03869		0.99988	
85 bis(2-Chloro-isopropyl)ether	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
86 Benzyl Chloride	+++++	1834	2454	3116	6861	26276						
	83027	204159	328807	479644			QUAD	0.02583	3.19418	-0.43518	0.99897	
87 n-Butylbenzene	+++++	2086	3873	5174	17474	74719						
	230022	480120	771364	1027127			LINR	0.03437	1.59386		0.99886	
88 1,2-Dichlorobenzene	+++++	2011	3200	5496	14242	54965						
	154054	315605	473254	640427			LINR	-0.00041	0.98612		0.99990	

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89 1,2-Dibromo-3-Chloropropane	+++++	25.00000	163	293	850	3946						
	11983	27833	44798	63420			QUAD	0.02963	12.33025	-5.65822	0.99951	<-
90 1,2,4-Trichlorobenzene	+++++	1040	1549	2921	7290	31651						
	98804	207612	328333	444784			LINR	0.03509	0.68631		0.99910	
91 Hexachlorobutadiene	+++++	0.30390	0.36067	0.22408	0.26650	0.25469						
	0.28782	0.27977	0.30062	0.29769			AVRG		0.28619		13.23843	
92 Naphthalene	+++++	1887	3046	5312	13942	73366						
	238716	504584	774087	1062354			LINR	0.03782	1.63801		0.99945	
93 1,2,3-Trichlorobenzene	+++++	0.68242	0.54839	0.51930	0.50115	0.50490						
	0.60375	0.58311	0.62311	0.61930			AVRG		0.57616		10.78221	
130 Ethyl Acetate	+++++	776	1204	1381	3686	13954						
	32501	57788	86452	119573			LINR	-0.05816	0.12702		0.99846	
131 Methyl Acrylate	+++++	1181	2072	3454	7354	31993						
	86917	176642	277014	385399			LINR	0.01499	0.41246		0.99948	

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132 n-Butanol	+++++	614	851	1478	3386	14625					
	42203	92092	150194	214255			LINR	1.11510	0.01141		0.99718
133 Ethyl Acrylate	+++++	1.08835	0.85355	0.78759	0.69145	0.75721					
	0.80882	0.83178	0.88783	0.89511			AVRG		0.84463		13.21731
134 Cyclohexanone	+++++	1015	1673	2636	5950	27032					
	74333	134205	228370	325494			QUAD	-0.36540	48.99643	-4.43714	0.99813
135 1,4-Dioxane	178	421	475	711	1522	6391					
	16646	31952	53042	70775			LINR	0.01585	0.00382		0.99839
136 n-Hexane	+++++	715	1533	1625	6717	24049					
	68438	135314	222995	291830			LINR	0.01286	0.31910		0.99819
137 n-Pentane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
138 Freon TF	+++++	0.22746	0.27604	0.16064	0.26621	0.24099					
	0.25697	0.25114	0.26991	0.26071			AVRG		0.24556		14.32440

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Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\8260C.m
Last Edit : 21-Jun-2024 17:31 r.patel

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
146 Methyl Acetate	+++++	+++++	1979	4003	8440	30705						
	81985	163229	236899	326381			LINR	-0.03044	0.35029		0.99963	
147 Methylcyclohexane	+++++	0.69981	0.58628	0.51876	0.46851	0.51904						
	0.56393	0.58017	0.61921	0.62100			AVRG		0.57519		11.91254	
149 Isopropyl alcohol	+++++	1929	2536	4239	9755	41045						
	107191	210042	335539	464562			LINR	0.15094	0.02482		0.99917	
152 Amyl alcohol	+++++	+++++	+++++	0.01137	0.00759	0.00857						
	0.00779	0.00872	0.00888	0.00888			AVRG		0.00883		13.97823	<-
150 Allyl alcohol	+++++	715	1533	1625	6717	24049						
	68438	135314	222995	291830			LINR	0.25717	0.01595		0.99819	
151 4-Methyl-2-pentanol	+++++	5488	6679	12146	32882	160068						
	434678	933229	1550800	2197622			LINR	1.12807	0.08148		0.99716	
148 Tert-butyl alcohol	+++++	2487	3358	5671	13064	50600						
	131660	261734	415397	581208			LINR	0.17537	0.03093		0.99911	

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INITIAL CALIBRATION DATA

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Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\8260C.m
Last Edit : 21-Jun-2024 17:31 r.patel

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
139 Diethyl ether	+++++	849	1272	2314	5410	20646					
	54574	106371	167293	230475			LINR	-0.00153	0.24668		0.99951
140 1,3-Butadiene	+++++	546	751	979	3506	13426					
	35678	71920	115416	155339			LINR	0.00992	0.16801		0.99920
141 Cyclohexane	+++++	+++++	+++++	5707	12503	34880					
	96337	190312	310874	417740			LINR	0.00494	0.45052		0.99832
142 Tetrahydrofuran	+++++	+++++	920	1871	3455	9707					
	28656	55300	87502	+++++			LINR	-0.01920	0.06386		0.99833
143 1-Chlorobutane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
144 Nitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
145 alpha-Methylstyrene	+++++	0.58915	0.55709	0.50810	0.49622	0.54644					
	0.66325	0.67660	0.72115	0.72101			AVRG		0.60878		14.52331

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INITIAL CALIBRATION DATA

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Method file : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\8260C.m
Last Edit : 21-Jun-2024 17:31 r.patel

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
153 Tetraethyl lead	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
154 2,3-Dichlorobutane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
155 2-Pentanone	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
156 Diisopropyl ether	+++++	4355	6186	11586	22824	91920						
	241287	493317	763018	1061760			LINR	0.00475	1.13458		0.99969	
157 n-Heptane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
158 Dichlorofluoromethane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
159 Propylene oxide	+++++	+++++	0.03543	0.02274	0.02646	0.02997						
	0.02774	0.02597	0.02910	0.02697			AVRG		0.02805		13.17317	

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INITIAL CALIBRATION DATA

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Method file : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\8260C.m
Last Edit : 21-Jun-2024 17:31 r.patel

Compound	0.2500000 Level 1	0.5000000 Level 2	1.0000 Level 3	2.0000 Level 4	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	50.0000 Level 7	100.0000 Level 8	150.0000 Level 9	200.0000 Level 10								
160 2-Methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
161 3-Methyl-1-butanol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
162 Butyl acrylate	+++++	0.59699	0.46298	0.43841	0.40502	0.42632						
	0.46563	0.48604	0.56746	0.59338			AVRG		0.49358		14.90457	
163 Butyl methacrylate	+++++	1113	1854	3207	8265	32529						
	83010	165827	275621	396264			QUAD	-0.01762	2.05819	-0.16922	0.99942	
164 Dicyclopentadiene	+++++	4397	6558	15708	34343	135389						
	352309	722443	1167216	1582575			LINR	0.01916	2.42377		0.99876	
165 4-Vinyl-1-cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
166 1,2,3-Trimethylbenzene	+++++	2858	4308	8207	19030	85948						
	240306	487628	772417	1038910			LINR	0.01779	1.60085		0.99934	

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Method file : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\8260C.m
Last Edit : 21-Jun-2024 17:31 r.patel

Compound	0.2500000 Level 1	0.5000000 Level 2	1.0000 Level 3	2.0000 Level 4	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	50.0000 Level 7	100.0000 Level 8	150.0000 Level 9	200.0000 Level 10							
167 Ethanol	+++++	312	550	938	2209	7529					
	19912	37556	60125	+++++			LINR	-0.22095	0.00438		0.99821
168 1-Propanol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
170 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
172 tert-Butyl formate	+++++	1788	2752	4441	11066	46037					
	129054	268682	+++++	+++++			LINR	0.01095	0.29899		0.99977
173 3,3-Dimethyl-1-butanol	+++++	2446	3697	12346	18250	74716					
	162034	353441	541267	+++++			LINR	-0.13782	0.02549		0.99914
174 tert-Amyl methyl ether	+++++	2784	4200	14011	23701	104672					
	251431	513237	790739	1115809			LINR	0.00885	1.02822		0.99937
175 tert-Butyl ethyl ether	+++++	2907	4567	13413	24076	101817					
	243854	511830	765367	1079867			LINR	0.00315	0.99689		0.99973

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Method file : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\8260C.m
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Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
176 tert-Amyl alcohol	+++++	1788	2162	8912	15009	61784						
	141023	319726	476457	+++++			LINR	0.11251	0.03057		0.99917	
177 Dimethyl ether	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
178 Ethylene oxide	+++++	+++++	4017	6470	17362	70538						
	290775	487526	638320	796045			QUAD	0.13555	0.91637	0.40187	0.99809	
179 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
180 1-Methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
181 2-Furfural	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
182 Epichlorohydrin	+++++	232	238	526	1322	6197						
	17061	38464	63964	+++++			QUAD	0.02537	77.08299	-85.11137	0.99997	

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Method file : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\8260C.m
Last Edit : 21-Jun-2024 17:31 r.patel

Compound	0.2500000 Level 1	0.5000000 Level 2	1.0000 Level 3	2.0000 Level 4	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	50.0000 Level 7	100.0000 Level 8	150.0000 Level 9	200.0000 Level 10								
183 2-Methylpropane(1)	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
(2)	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
184 Cyclopentane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
185 Isoprene	+++++	+++++	0.08494	0.09878	0.07067	0.08008						
	0.08237	0.08205	0.08649	0.08480			AVRG		0.08377		9.30413	<-
186 Isopentane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
187 n-Amyl acetate	+++++	+++++	0.51069	0.42856	0.40924	0.41217						
	0.46187	0.47428	0.50814	0.51939			AVRG		0.46554		9.68398	<-
188 Isopropyl acetate	+++++	3037	4470	8161	19318	76293						
	228388	465647	714858	1008682			QUAD	0.00617	1.41083	-0.02795	0.99983	

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Method file : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\8260C.m
Last Edit : 21-Jun-2024 17:31 r.patel

Compound	0.2500000 Level 1	0.5000000 Level 2	1.0000 Level 3	2.0000 Level 4	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	50.0000 Level 7	100.0000 Level 8	150.0000 Level 9	200.0000 Level 10								
189 n-Butyl acetate	+++++	0.38978	0.42061	0.36060	0.31928	0.31801						
	0.36526	0.37636	0.39229	0.42334			AVRG		0.37395		10.17457	
190 Propanal	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
191 n-Buteraldehyde	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
192 Isobuteraldehyde	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
193 2-Ethyl-1-hexanol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
194 Acetaldehyde	+++++	+++++	1886	2016	6710	24633						
	66813	131432	195750	285245			LINR	0.02212	0.07523		0.99880	<-
195 Methyl Amyl Ketone	+++++	+++++	+++++	0.67002	0.43631	0.50409						
	0.46604	0.48766	0.50383	0.52789			AVRG		0.51369		14.60322	<-

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INITIAL CALIBRATION DATA

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Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\8260C.m
Last Edit : 21-Jun-2024 17:31 r.patel

Compound	0.2500000 Level 1	0.5000000 Level 2	1.0000 Level 3	2.0000 Level 4	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	50.0000 Level 7	100.0000 Level 8	150.0000 Level 9	200.0000 Level 10								
196 2-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
197 3-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
198 Methylcyclopentane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
199 1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
200 Dimethyl Disulfide	+++++	271	446	946	2476	12285						
	43586	129891	+++++	+++++			QUAD	0.02192	7.54065	-6.89821	0.99876	
201 1-Butene(1)	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
(2)	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-

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INITIAL CALIBRATION DATA

Start Cal Date : 03-JUN-2024 17:24
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Quant Method : ISTD
Target Version : 4.14
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Method file : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\8260C.m
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Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
202 Isobutylene	+++++	0.18395	0.15111	0.13872	0.16668	0.16104					
	0.16170	0.16563	0.17266	0.17015			AVRG		0.16352		7.90889
203 2-Ethylhexyl Acrylate	+++++	699	1138	2165	4398	24452					
	84092	193513	339518	+++++			QUAD	0.02317	1.96357	-0.26657	0.99930
204 Tetrahydrothiophene	+++++	0.27728	0.25897	0.18952	0.20353	0.22569					
	0.24567	0.23493	0.24879	0.24882			AVRG		0.23702		11.52179
205 sec-Butyl Ether	+++++	0.83904	0.68283	0.59501	0.57793	0.54143					
	0.53229	0.53499	0.59644	0.61057			AVRG		0.61228		15.86880
M 94 1,2-Dichloroethylene (total)	+++++	0.53478	0.42418	0.36337	0.35138	0.31902					
	0.34036	0.33193	0.34131	0.33864			AVRG		0.37166		18.34438
M 95 Xylenes (total)	+++++	0.43836	0.38695	0.33887	0.35745	0.37383					
	0.41876	0.41126	0.41977	0.41415			AVRG		0.39549		8.36729
$ 30 Dibromofluoromethane	+++++	+++++	0.44665	0.40784	0.35920	0.34099					
	0.33751	0.32945	0.32888	0.33265			AVRG		0.36040		12.10076

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INITIAL CALIBRATION DATA

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Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\8260C.m
Last Edit : 21-Jun-2024 17:31 r.patel

Compound	0.2500000 Level 1	0.5000000 Level 2	1.0000 Level 3	2.0000 Level 4	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	50.0000 Level 7	100.0000 Level 8	150.0000 Level 9	200.0000 Level 10							
$ 35 1,2-Dichloroethane-d4	+++++	+++++	+++++	0.56282	0.45112	0.42576					
	0.42461	0.40489	0.40380	0.40267			AVRG		0.43938		13.00210
$ 48 Toluene-d8	+++++	+++++	1.27939	1.13614	0.95852	0.93717					
	0.94227	0.91237	0.92898	0.93795			AVRG		1.00410		13.14965
$ 69 4-Bromofluorobenzene	+++++	+++++	+++++	0.45154	0.35349	0.35181					
	0.35461	0.34020	0.34434	0.34692			AVRG		0.36327		10.80938

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INITIAL CALIBRATION DATA

Start Cal Date : 03-JUN-2024 17:24

```
End Cal Date    : 05-JUN-2024 22:12
Quant Method    : ISTD
Target Version  : 4.14
Integrator      : HP RTE
Method file     : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\8260C.m
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```

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Linear	Amt = b + Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

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INITIAL CALIBRATION DATA

Start Cal Date : 29-MAY-2024 10:39
End Cal Date : 29-MAY-2024 13:53
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240531.b\8260C.m
Last Edit : 07-Jun-2024 09:02 r.patel

Calibration File Names:
Level 1: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052902.D
Level 2: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Level 3: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052904.D
Level 4: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052905.D
Level 5: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052906.D
Level 6: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052907.D
Level 7: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052908.D
Level 8: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052909.D
Level 9: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052910.D
Level 10: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052911.D

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
2 Dichlorodifluoromethane	+++++ / 0.18930	0.13303 / 0.19965	0.14942 / 0.21073	0.19171 / 0.21952	0.20212	0.18209	AVRG		0.18640		15.15313
3 Chloromethane	+++++ / 187210	6413 / 362966	8687 / 564726	12469 / 716916	21844	75709	LINR	-0.01460	0.65713		0.99971
4 Propionitrile	+++++ / 161164	1595 / 312519	4715 / 508916	9364 / +++++	17004	64665	QUAD	-0.15111	19.31982	-1.48298	0.99987

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 29-MAY-2024 10:39
End Cal Date : 29-MAY-2024 13:53
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240531.b\8260C.m
Last Edit : 07-Jun-2024 09:02 r.patel

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
5 Vinyl Chloride	+++++	0.31834	0.38026	0.40826	0.37239	0.36186					
	0.35983	0.38068	0.40301	0.41353			AVRG		0.37757		7.83185
6 Bromomethane	+++++	1786	2361	3722	6167	21249					
	48410	88847	+++++	+++++			LINR	-0.04057	0.15858		0.99966
7 Chloroethane	+++++	1090	2279	3382	8259	30548					
	75481	148667	238484	317922			QUAD	-0.00648	3.91983	-0.41583	0.99992
8 Trichlorofluoromethane	+++++	0.31063	0.38253	0.46400	0.48215	0.44355					
	0.45832	0.47620	0.50214	0.51589			AVRG		0.44838		14.33257
9 Acrolein	+++++	367	625	772	1464	3686					
	10580	19417	33211	45520			QUAD	-0.06918	61.69189	-80.69988	0.99925
10 Acetone	+++++	2671	4580	6842	11049	34500					
	82879	158455	258229	309961			QUAD	-0.03625	6.71638	0.19369	0.99772
11 1,1-Dichloroethene	+++++	0.29220	0.34260	0.35646	0.33383	0.31043					
	0.31030	0.32400	0.34282	0.35383			AVRG		0.32961		6.64761

ALS Laboratory Group

INITIAL CALIBRATION DATA

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Method file : \\NAHSTWS005\Target\chem\voa9.i\U240531.b\8260C.m
Last Edit : 07-Jun-2024 09:02 r.patel

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
12 Isobutyl Alcohol	+++++	2723	8488	15290	29987	129741						
	318836	634410	1019170	1572359			QUAD	-0.35860	20.24047	-1.08009	0.99969	
13 Acetonitrile	+++++	0.02899	0.04817	0.04356	0.04061	0.03842						
	0.03864	0.04079	0.04257	0.04328			AVRG		0.04056		12.94972	
14 Allyl Chloride	+++++	2724	8034	14793	29273	113638						
	277594	552669	885047	1175804			QUAD	-0.00482	1.05310	-0.02903	0.99989	
15 Iodomethane	+++++	772	1102	1323	2162	7857						
	23240	+++++	+++++	+++++			QUAD	-0.08181	36.37439	-131	0.99983	<-
16 Acrylonitrile	+++++	973	2714	4999	8324	33195						
	79503	154935	251557	334027			QUAD	-0.02498	7.50995	-0.79006	0.99981	
17 Methylene Chloride	+++++	3188	4998	7689	13562	47173						
	111343	213527	334515	442243			QUAD	-0.02777	2.71449	-0.14016	0.99997	
18 Methyl tert-butyl ether	+++++	2663	7839	14737	28791	111071						
	265805	517202	834255	1108713			QUAD	-0.01056	1.12179	-0.03344	0.99986	

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Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
19 Carbon Disulfide	+++++	0.91229	0.94804	0.95577	0.85995	0.84293					
	0.87973	0.92558	0.98079	1.01655			AVRG		0.92463		6.18301
20 trans-1,2-Dichloroethene	+++++	0.37061	0.40903	0.43390	0.36267	0.34445					
	0.34249	0.35005	0.36525	0.37595			AVRG		0.37271		8.19295
21 Vinyl Acetate	+++++	0.21061	0.28071	0.22093	0.16746	0.21287					
	0.21812	0.21590	0.22362	0.23289			AVRG		0.22034		13.21623
22 1,1-Dichloroethane	+++++	0.75128	0.93697	0.81993	0.65628	0.63440					
	0.63515	0.64516	0.67344	0.69132			AVRG		0.71599		14.40292
23 Chloroprene	+++++	0.43361	0.49133	0.56453	0.52423	0.50462					
	0.51624	0.54030	0.57050	0.57975			AVRG		0.52501		8.73969
24 2-Butanone	+++++	0.22032	0.29335	0.25523	0.18866	0.19285					
	0.20394	0.21007	0.22170	0.22489			AVRG		0.22344		14.68818
25 Methacrylonitrile	+++++	638	1920	3297	6036	26774					
	64217	134993	208472	294600			QUAD	-0.00542	4.58251	-0.79478	0.99978

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26 2,2-Dichloropropane	+++++	0.42724	0.43832	0.49077	0.43639	0.43003					
	0.45997	0.48616	0.52119	0.53941			AVRG		0.46994		8.83489
27 cis-1,2-Dichloroethene	+++++	0.48622	0.54677	0.53469	0.41904	0.41836					
	0.41961	0.42526	0.43912	0.45372			AVRG		0.46031		11.00258
28 Chloroform	+++++	0.71777	0.84701	0.86193	0.65656	0.64839					
	0.65581	0.65894	0.68314	0.70452			AVRG		0.71490		11.56076
29 Bromochloromethane	+++++	704	1768	3171	6036	25140					
	59781	113406	178579	234915			LINR	0.00550	0.21304		0.99960
31 1,1,1-Trichloroethane	+++++	0.42088	0.39892	0.52218	0.47253	0.48041					
	0.50420	0.53582	0.57606	0.59479			AVRG		0.50064		13.05518
32 1,1-Dichloropropene	+++++	0.38898	0.35081	0.36657	0.35665	0.32223					
	0.34299	0.35647	0.38320	0.39139			AVRG		0.36214		6.31921
33 1,2-Dichloroethane	+++++	1765	4481	8149	15306	61258					
	149897	287619	449209	601098			LINR	0.01199	0.37658		0.99943

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34 Carbon Tetrachloride	+++++	0.28747	0.23686	0.24727	0.26052	0.24382					
	0.27888	0.30788	0.33996	0.35051			AVRG		0.28369		14.69311
37 Benzene	+++++	1.35152	1.35135	1.35786	1.08821	1.05427					
	1.06572	1.06520	1.12030	1.14485			AVRG		1.17770		11.45667
38 Trichloroethene	+++++	0.28032	0.31554	0.31681	0.27389	0.26521					
	0.27613	0.27972	0.29757	0.30357			AVRG		0.28986		6.54373
39 Bromodichloromethane	+++++	0.27293	0.33666	0.33156	0.26547	0.29078					
	0.31283	0.32676	0.35023	0.36350			AVRG		0.31675		10.74188
40 Methyl Methacrylate	+++++	511	1060	3031	4802	18720					
	48081	100414	167428	224325			QUAD	0.00631	5.90256	-1.30510	0.99947
41 2-Chloroethylvinyl ether	+++++	505	1330	2568	5106	28955					
	81655	179421	309450	444756			QUAD	0.06521	9.75884	-2.44897	0.99933
42 1,2-Dichloropropane	+++++	0.34676	0.35990	0.37577	0.27333	0.27539					
	0.28045	0.28090	0.29807	0.30492			AVRG		0.31061		12.77398

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43 2-Nitropropane	+++++	164	456	922	1819	7738					
	22745	50838	89884	122639			QUAD	0.03571	11.72054	-6.66363	0.99836
44 Dibromomethane	+++++	0.16727	0.22837	0.20593	0.15791	0.16363					
	0.16910	0.17146	0.17778	0.18190			AVRG		0.18037		12.59524
45 4-Methyl-2-Pentanone	+++++	2006	6605	11033	21975	95933					
	249783	496657	794722	1077867			QUAD	0.00798	3.03215	-0.11576	0.99994
46 cis-1,3-Dichloropropene	+++++	1376	3129	6163	13035	62650					
	171538	349144	565316	770716			QUAD	0.01651	2.42687	-0.20124	0.99981
49 Ethyl Methacrylate	+++++	0.30708	0.46783	0.42709	0.34555	0.34110					
	0.35617	0.38285	0.41927	0.43387			AVRG		0.38676		13.72954
50 Toluene	+++++	1.69288	1.61800	1.55178	1.17812	1.20105					
	1.20749	1.21554	1.26838	1.28193			AVRG		1.35724		14.98795
51 trans-1,3-Dichloropropene	+++++	919	2284	4599	9852	49938					
	138911	288024	471401	644492			QUAD	0.02242	2.95276	-0.32272	0.99971

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52 2-Hexanone	+++++	1203	4192	6895	12848	58293					
	156001	326398	541778	725984			QUAD	0.03342	4.62722	-0.33633	0.99944
53 1,1,2-Trichloroethane	+++++	894	2548	4925	8641	36741					
	88934	172371	269298	360962			QUAD	-0.00780	4.28542	-0.25329	0.99997
54 1,3-Dichloropropane	+++++	0.53420	0.68504	0.65636	0.49071	0.50919					
	0.51660	0.51477	0.52833	0.54038			AVRG		0.55284		12.43787
55 Dibromochloromethane	+++++	788	1952	3797	7567	39282					
	106831	219518	353909	481854			QUAD	0.01807	3.44826	-0.34347	0.99984
56 Tetrachloroethene	+++++	0.22468	0.20096	0.25521	0.22637	0.23051					
	0.23475	0.24326	0.25812	0.25952			AVRG		0.23704		8.07931
57 1,2-Dibromoethane	+++++	0.27994	0.34774	0.33384	0.25808	0.27729					
	0.29096	0.28921	0.30301	0.30625			AVRG		0.29848		9.42066
58 1-Chlorohexane	+++++	4455	4740	6859	11209	32677					
	80903	168663	289826	389857			QUAD	-0.02291	5.16485	-1.15033	0.99882

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INITIAL CALIBRATION DATA

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Method file : \\NAHSTWS005\Target\chem\voa9.i\U240531.b\8260C.m
Last Edit : 07-Jun-2024 09:02 r.patel

Compound	0.2500000 Level 1	0.5000000 Level 2	1.0000 Level 3	2.0000 Level 4	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	50.0000 Level 7	100.0000 Level 8	150.0000 Level 9	200.0000 Level 10								
59 Chlorobenzene	+++++	0.91065	1.02221	1.03793	0.78537	0.78062						
	0.78708	0.78424	0.81876	0.82885			AVRG		0.86175		12.03900	
60 1,1,1,2-Tetrachloroethane	+++++	0.23039	0.27723	0.29466	0.23537	0.26386						
	0.27758	0.28568	0.30258	0.30760			AVRG		0.27499		9.97539	
61 Ethylbenzene	+++++	2343	3630	7387	14250	57981						
	147348	289334	473626	633308			QUAD	-0.00097	2.57843	-0.16882	0.99975	
62 m,p-Xylenes	+++++	10673	13484	22381	39064	153153						
	376184	741524	1202813	1591481			QUAD	-0.02007	2.00683	-0.04254	0.99972	
63 o-Xylene	+++++	3953	5882	10205	17958	74682						
	182488	356834	578662	767838			LINR	0.01613	0.52538		0.99915	
64 Styrene	+++++	0.78067	0.85269	0.89561	0.70454	0.79183						
	0.81897	0.83597	0.87600	0.89207			AVRG		0.82759		7.46368	
65 cis-1,4-Dichloro-2-butene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-

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Compound	0.2500000 Level 1	0.5000000 Level 2	1.0000 Level 3	2.0000 Level 4	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	50.0000 Level 7	100.0000 Level 8	150.0000 Level 9	200.0000 Level 10							
66 Bromoform	+++++	424	1114	2167	4403	22868					
	68173	145408	242102	335082			QUAD	0.03030	5.29646	-1.10154	0.99951
67 Isopropylbenzene	+++++	1.11873	1.02368	1.29388	1.09160	1.14829					
	1.19815	1.23035	1.31552	1.32061			AVRG		1.19342		8.85576
68 1,1,2,2-Tetrachloroethane	+++++	0.79223	1.05849	0.99882	0.75573	0.75739					
	0.76801	0.76648	0.77525	0.80760			AVRG		0.83111		13.73758
71 1,2,3-Trichloropropane	+++++	0.59641	0.85075	0.94990	0.67279	0.69958					
	0.76161	0.78691	0.81902	0.87724			AVRG		0.77936		14.12141
72 trans-1,4-Dichloro-2-butene	+++++	0.07939	0.09446	0.09701	0.06596	0.07305					
	0.08157	0.08825	0.08876	0.10040			AVRG		0.08543		13.36403
73 n-Propylbenzene	+++++	3.17639	2.48766	2.87316	2.35433	2.51268					
	2.61428	2.67893	2.74099	2.81223			AVRG		2.69452		9.07546
74 Bromobenzene	+++++	0.68090	0.78492	0.82901	0.62744	0.63099					
	0.64971	0.63121	0.66597	0.68768			AVRG		0.68754		10.46560

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75 1,3,5-Trimethylbenzene	+++++	8297	10157	18636	34885	146220					
	361104	721154	1177381	1562083			QUAD	-0.00635	0.56396	-0.00847	0.99987
76 2-Chlorotoluene	+++++	5091	8525	16959	31374	128707					
	315078	613649	992742	1326171			QUAD	-0.01113	0.66165	-0.01106	0.99991
77 4-Chlorotoluene	+++++	2.07502	1.96880	2.24259	1.74124	1.81605					
	1.83407	1.84260	1.92052	1.97114			AVRG		1.93467		7.90878
78 tert-Butylbenzene	+++++	1.38716	1.15836	1.61671	1.38738	1.50126					
	1.54490	1.57974	1.72515	1.71466			AVRG		1.51281		11.90371
79 1,2,4-Trimethylbenzene	+++++	22634	22742	30038	43795	154144					
	370379	733468	1177305	1562562			QUAD	-0.03863	0.56639	-0.00825	0.99991
80 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
81 sec-Butylbenzene	+++++	1.95971	1.53179	2.15211	1.83827	2.01639					
	2.09538	2.16878	2.35348	2.36267			AVRG		2.05318		12.64246

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82 p-Isopropyltoluene	+++++	1.69530	1.35834	1.87751	1.56188	1.73918						
	1.83665	1.89887	2.05631	2.07868			AVRG		1.78919		12.89527	
83 1,3-Dichlorobenzene	+++++	1.20972	1.23044	1.37911	1.03167	1.07656						
	1.09876	1.10157	1.14530	1.17630			AVRG		1.16105		8.95650	
84 1,4-Dichlorobenzene	+++++	1.47215	1.46121	1.56818	1.17445	1.14991						
	1.15575	1.15719	1.20782	1.22554			AVRG		1.28580		12.87550	
85 bis(2-Chloro-isopropyl)ether	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
86 Benzyl Chloride	+++++	2950	4616	7262	12197	47617						
	138884	315330	539443	763055			QUAD	0.02327	2.51645	-0.30363	0.99893	
87 n-Butylbenzene	+++++	6464	7427	14661	28223	121510						
	312016	641821	1065723	1416365			QUAD	0.00444	0.63769	-0.01283	0.99971	
88 1,2-Dichlorobenzene	+++++	1.29571	1.41440	1.43005	1.08630	1.10145						
	1.09643	1.09704	1.13793	1.16713			AVRG		1.20294		11.64085	

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Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
89 1,2-Dibromo-3-Chloropropane	+++++	128	485	786	1716	6942					
	20853	43093	72928	101593			QUAD	0.01657	9.75914	-4.16378	0.99969
90 1,2,4-Trichlorobenzene	+++++	0.71072	0.74863	0.88616	0.62940	0.70252					
	0.73323	0.76145	0.81529	0.83432			AVRG		0.75797		10.22986
91 Hexachlorobutadiene	+++++	0.33200	0.26055	0.33657	0.26420	0.28467					
	0.27888	0.29560	0.33945	0.34514			AVRG		0.30412		11.23611
92 Naphthalene	+++++	7391	11206	19031	32575	140782					
	365632	733059	1179542	1590132			QUAD	-0.00408	0.56192	-0.00904	0.99995
93 1,2,3-Trichlorobenzene	+++++	0.66500	0.69907	0.83256	0.61164	0.66915					
	0.68198	0.69832	0.73642	0.76088			AVRG		0.70611		9.03810
130 Ethyl Acetate	+++++	0.43026	0.57763	0.52848	0.39835	0.42892					
	0.43624	0.43180	0.44724	0.46577			AVRG		0.46052		12.31489
131 Methyl Acrylate	+++++	1262	3957	7361	13966	52347					
	131096	259299	426664	566657			QUAD	-0.00447	2.24925	-0.15801	0.99971

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Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
132 n-Butanol	+++++	0.01175	0.01513	0.01494	0.01202	0.01109					
	0.01204	0.01348	0.01502	0.01576			AVRG		0.01347		13.21525
133 Ethyl Acrylate	+++++	1801	5916	9698	23229	94734					
	249751	512252	834322	1129810			QUAD	0.00957	1.15612	-0.04698	0.99983
134 Cyclohexanone	+++++	969	2910	6019	11414	42427					
	104997	221511	367899	459191			QUAD	0.21161	35.22118	-0.86577	0.99858
135 1,4-Dioxane	538	700	1066	1835	3681	12564					
	28576	56513	95387	124297			QUAD	-0.34629	205	-66.69702	0.99920
136 n-Hexane	+++++	1203	1300	3412	9230	36389					
	91764	189432	315804	415342			QUAD	0.01229	3.06226	-0.30297	0.99937
137 n-Pentane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
138 Freon TF	+++++	683	1010	2974	7685	30656					
	78742	158195	258556	345384			QUAD	0.00840	3.68306	-0.42555	0.99980

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146 Methyl Acetate	+++++	1181	3707	6657	11748	45615					
	112240	212417	330134	440647			LINR	0.00517	0.39776		0.99948
147 Methylcyclohexane	+++++	1801	5794	9698	23229	94734					
	249751	512252	834322	1129810			QUAD	0.01150	1.65506	-0.09354	0.99975
149 Isopropyl alcohol	+++++	1852	4800	9638	17652	63121					
	157210	314658	520251	+++++			QUAD	-0.34137	39.65866	-3.84749	0.99994
152 Amyl alcohol	+++++	468	1733	3250	7303	29249					
	77196	167778	285246	393449			QUAD	0.37441	92.55002	-18.10291	0.99935
150 Allyl alcohol	+++++	1203	1300	3412	9230	36389					
	91764	189432	315804	415342			QUAD	0.24576	61.24528	-6.05945	0.99937
151 4-Methyl-2-pentanol	+++++	5007	14569	29478	63851	254940					
	647574	1368113	2335055	3204773			QUAD	0.24823	12.57753	-0.34866	0.99934
148 Tert-butyl alcohol	+++++	2390	6404	12205	24373	82537					
	200951	398358	659260	+++++			QUAD	-0.43226	31.21599	-2.33858	0.99989

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139 Diethyl ether	+++++	846	2295	4189	8354	31782					
	75842	146534	240834	323193			QUAD	-0.01340	3.99670	-0.51795	0.99978
140 1,3-Butadiene	+++++	0.14778	0.18377	0.18637	0.19524	0.18035					
	0.17971	0.18574	0.19886	0.20716			AVRG		0.18500		9.01927
141 Cyclohexane	+++++	6283	6773	9727	17154	54972					
	132365	266868	441425	587963			QUAD	-0.02644	2.24179	-0.17768	0.99958
142 Tetrahydrofuran	+++++	723	1587	2424	5039	17078					
	41576	81311	130444	+++++			QUAD	-0.04414	14.84610	-3.98222	0.99994
143 1-Chlorobutane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
144 Nitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
145 alpha-Methylstyrene	+++++	1085	2613	6078	11677	56994					
	150603	307618	503336	677516			QUAD	0.01141	1.33167	-0.05530	0.99989

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153 Tetraethyl lead	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
154 2,3-Dichlorobutane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
155 2-Pentanone	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
156 Diisopropyl ether	+++++	1.19059	1.60666	1.48307	1.22536	1.17650						
	1.14230	1.17838	1.23504	1.25185			AVRG		1.27664		12.43573	
157 n-Heptane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
158 Dichlorofluoromethane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
159 Propylene oxide	+++++	+++++	+++++	1149	1607	6665						
	16421	32032	51620	68450			QUAD	-0.02486	36.32301	-17.49531	0.99980	

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160 2-Methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
161 3-Methyl-1-butanol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
162 Butyl acrylate	+++++	1363	4624	8351	17657	72944						
	186832	408695	710720	999143			QUAD	0.01659	1.91968	-0.17561	0.99927	
163 Butyl methacrylate	+++++	0.60586	0.52186	0.57595	0.52208	0.54056						
	0.52950	0.57499	0.64418	0.69199			AVRG		0.57855		10.26081	
164 Dicyclopentadiene	+++++	2.86527	3.02354	2.48602	2.43154	2.26888						
	2.37884	2.43479	2.56355	2.62783			AVRG		2.56447		9.42852	
165 4-Vinyl-1-cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
166 1,2,3-Trimethylbenzene	+++++	6866	11411	17012	35395	132826						
	333316	651618	1039375	1391506			LINR	0.01481	1.76937		0.99908	

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167 Ethanol	+++++	339	850	1764	3681	12109					
	29366	59044	97976	+++++			QUAD	-0.41167	212	-113	0.99990
168 1-Propanol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
170 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
172 tert-Butyl formate	+++++	0.33040	0.48374	0.46032	0.38402	0.35150					
	0.36425	0.39046	+++++	+++++			AVRG		0.39496		14.35743
173 3,3-Dimethyl-1-butanol	+++++	0.02661	0.04039	0.04248	0.03564	0.03092					
	0.03181	0.03329	0.03727	+++++			AVRG		0.03480		14.98766
174 tert-Amyl methyl ether	+++++	1.00997	1.43039	1.32549	1.11262	1.08450					
	1.03837	1.13730	1.16972	1.22109			AVRG		1.16994		11.67266
175 tert-Butyl ethyl ether	+++++	0.94697	1.48758	1.32750	1.09049	1.04844					
	1.03360	1.05841	1.12760	1.17146			AVRG		1.14356		14.60205

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176 tert-Amyl alcohol	+++++	0.03304	0.04837	0.04603	0.03840	0.03515						
	0.03642	0.03905	0.04317	+++++			AVRG		0.03996		13.53625	
177 Dimethyl ether	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
178 Ethylene oxide	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
179 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
180 1-Methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
181 2-Furfural	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
182 Epichlorohydrin	+++++	323	718	1272	2221	10404						
	29367	61001	103901	+++++			QUAD	0.02457	60.62931	-55.52048	0.99980	

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183 2-Methylpropane(1)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
(2)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
184 Cyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
185 Isoprene	+++++	81.00000	375	950	2012	8609						
	22038	45875	73860	98636			QUAD	0.01301	12.77332	-4.91218	0.99977	
186 Isopentane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
187 n-Amyl acetate	+++++	0.44806	0.60235	0.57948	0.50185	0.49612						
	0.51110	0.54084	0.58705	0.61928			AVRG		0.54290		10.60908	
188 Isopropyl acetate	+++++	+++++	1.00124	0.92402	0.74732	0.76500						
	0.76539	0.78986	0.84119	0.80293			AVRG		0.82962		10.76824	<-

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189 n-Butyl acetate	+++++	0.43327	0.62965	0.56777	0.43192	0.46769						
	0.49841	0.52972	0.56976	0.59596			AVRG		0.52491		13.62368	
190 Propanal	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
191 n-Buteraldehyde	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
192 Isobuteraldehyde	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
193 2-Ethyl-1-hexanol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
194 Acetaldehyde	+++++	1640	3248	4005	8362	37005						
	97166	187809	305993	417509			QUAD	-0.01475	12.58076	-1.38019	0.99990	
195 Methyl Amyl Ketone	+++++	0.44573	0.68116	0.69063	0.55526	0.54143						
	0.55898	0.60937	0.69341	0.70587			AVRG		0.60909		14.79795	

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196 2-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
197 3-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
198 Methylcyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
199 1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
200 Dimethyl Disulfide	+++++	248	895	1744	3903	20022						
	68045	196799	406307	618005			QUAD	0.09981	3.80589	-0.91403	0.99215	
201 1-Butene(1)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
(2)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-

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202 Isobutylene	+++++	1036	1518	1892	5256	17507					
	43949	91262	140148	201782			QUAD	-0.01526	6.90463	-1.95784	0.99968
203 2-Ethylhexyl Acrylate	+++++	644	2167	3471	8052	37971					
	121736	271079	460688	+++++			QUAD	0.02697	1.66196	-0.16515	0.99923
M 94 1,2-Dichloroethylene (total)	+++++	0.42842	0.47790	0.48429	0.39085	0.38140					
	0.38105	0.38765	0.40219	0.41484			AVRG		0.41651		9.56374
M 95 Xylenes (total)	+++++	14626	19366	32586	57022	227835					
	558672	1098358	1781475	2359319			QUAD	-0.02661	2.27708	-0.04606	0.99970
$ 30 Dibromofluoromethane	+++++	1637	2993	5220	9474	36896					
	91670	177686	285257	379603			QUAD	-0.01108	3.27132	-0.28058	0.99990
$ 35 1,2-Dichloroethane-d4	+++++	2042	4136	6748	11774	44846					
	104957	204529	321896	430320			LINR	0.00862	0.38761		0.99906
$ 48 Toluene-d8	+++++	7327	12775	20610	36100	142140					
	337359	670353	1052895	1400146			LINR	0.00410	0.95736		0.99965

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Last Edit : 07-Jun-2024 09:02 r.patel

Compound	0.2500000 Level 1	0.5000000 Level 2	1.0000 Level 3	2.0000 Level 4	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	50.0000 Level 7	100.0000 Level 8	150.0000 Level 9	200.0000 Level 10							
$ 69 4-Bromofluorobenzene	+++++ 124362	3574 241554	5245 383258	8164 508465	14171	52184	LINR	-0.00197	0.34704		0.99957

Report Date : 07-Jun-2024 09:12 Page 26

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 29-MAY-2024 10:39
End Cal Date : 29-MAY-2024 13:53
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240531.b\8260C.m
Last Edit : 07-Jun-2024 09:02 r.patel

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Linear	Amt = b + Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

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Form 6I

Initial Calibration Verification (ICV)

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24051535

Client

Bhate Environmental Associates, Inc.

Project

LHAAP-58

06/24/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder HS24051535

RunID U052914.D

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix	LIQUID	**Fraction**	VOA
Lab Smp Id	VSTD050	**Client Smp ID**	VSTD050
Data Type	MS DATA	**SampleType**	METHSPIKE
File ID	U052914.D	**Inj Date**	29-MAY-2024 1458

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
1,1,1,2-Tetrachloroethane	50.0	49.5	98.9	80-120	
1,1,1-Trichloroethane	50.0	49.7	99.4	80-120	
1,1,2,2-Tetrachloroethane	50.0	45.6	91.2	80-120	
Freon TF	50.0	47.4	94.8	80-120	
Methyl acetate	50.0	48.3	96.5	80-120	
Cyclohexane	50.0	48.3	96.7	80-120	
Methylcyclohexane	50.0	48.2	96.4	80-120	
Carbon Disulfide	100	93.0	93.0	80-120	
2-Hexanone	100	101	101	80-120	
1,1,2-Trichloroethane	50.0	49.0	98.1	80-120	
1,1-Dichloroethane	50.0	43.2	86.4	80-120	
1,1-Dichloroethene	50.0	46.2	92.5	80-120	
1,1-Dichloropropene	50.0	46.5	93.0	80-120	
1,2,3-Trichlorobenzene	50.0	47.5	95.1	80-120	
1,2,3-Trichloropropane	50.0	47.5	95.1	80-120	
1,2,4-Trichlorobenzene	50.0	46.7	93.4	80-120	
1,2,4-Trimethylbenzene	50.0	47.6	95.2	80-120	
1,2-Dibromo-3-Chloropropane	50.0	49.7	99.4	80-120	
1,2-Dibromoethane	50.0	48.0	96.0	80-120	
Acrolein	100	106	106	80-120	
Acrylonitrile	100	101	101	80-120	
1,2-Dichlorobenzene	50.0	44.4	88.7	80-120	
1,2-Dichloroethane	50.0	47.0	94.1	80-120	
1,2-Dichloropropane	50.0	45.1	90.1	80-120	
1,3,5-Trimethylbenzene	50.0	47.8	95.5	80-120	
1,3-Dichlorobenzene	50.0	45.3	90.6	80-120	
1,3-Dichloropropane	50.0	46.4	92.7	80-120	
1,4-Dichlorobenzene	50.0	43.0	86.1	80-120	
1-Chlorohexane	50.0	47.2	94.4	80-120	
2,2-Dichloropropane	50.0	46.0	92.0	80-120	
2-Butanone	100	93.2	93.2	80-120	
2-Chloroethylvinyl ether	100	102	102	80-120	
2-Chlorotoluene	50.0	48.8	97.5	80-120	
4-Chlorotoluene	50.0	45.3	90.6	80-120	

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder HS24051535

RunID U052914.D

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix LIQUID
Lab Smp Id VSTD050
Data Type MS DATA
File ID U052914.D

Fraction VOA
Client Smp ID VSTD050
SampleType METHSPIKE
Inj Date 29-MAY-2024 1458

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
p-Isopropyltoluene	50.0	49.6	99.2	80-120	
4-Methyl-2-Pentanone	100	101	101	80-120	
Acetone	100	93.8	93.8	80-120	
Acetonitrile	500	470	93.9	80-120	
Allyl Chloride	50.0	48.8	97.5	80-120	
Benzene	50.0	43.5	87.1	80-120	
Bromobenzene	50.0	44.7	89.5	80-120	
Bromochloromethane	50.0	47.9	95.8	80-120	
Bromodichloromethane	50.0	48.2	96.4	80-120	
Bromoform	50.0	48.2	96.4	80-120	
Bromomethane	50.0	50.9	102	80-120	
Carbon Tetrachloride	50.0	49.6	99.2	80-120	
Chlorobenzene	50.0	44.4	88.8	80-120	
Chloroethane	50.0	50.8	102	80-120	
Chloroform	50.0	44.6	89.2	80-120	
Chloromethane	50.0	46.2	92.3	80-120	
Chloroprene	50.0	48.9	97.7	80-120	
cis-1,2-Dichloroethene	50.0	43.8	87.7	80-120	
cis-1,3-Dichloropropene	50.0	48.2	96.5	80-120	
Dibromochloromethane	50.0	48.7	97.5	80-120	
Dibromomethane	50.0	45.8	91.6	80-120	
Dichlorodifluoromethane	50.0	50.1	100	80-120	
Ethylbenzene	50.0	48.7	97.5	80-120	
Ethyl Methacrylate	50.0	46.7	93.3	80-120	
Iodomethane	100	114	114	80-120	
Isobutyl Alcohol	1000	1029	103	70-130	
Propionitrile	500	509	102	70-130	
Hexachlorobutadiene	50.0	45.4	90.9	80-120	
Isopropylbenzene	50.0	49.5	99.0	80-120	
m,p-Xylenes	100	96.4	96.4	80-120	
Methyl tert-butyl ether	50.0	49.8	99.7	80-120	
Methylene Chloride	50.0	48.8	97.6	80-120	
Methacrylonitrile	50.0	51.1	102	80-120	
Methyl Methacrylate	50.0	49.9	99.8	80-120	

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder HS24051535

RunID U052914.D

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix	LIQUID	**Fraction**	VOA
Lab Smp Id	VSTD050	**Client Smp ID**	VSTD050
Data Type	MS DATA	**SampleType**	METHSPIKE
File ID	U052914.D	**Inj Date**	29-MAY-2024 1458

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
n-Butylbenzene	50.0	47.3	94.6	80-120	
n-Propylbenzene	50.0	46.1	92.2	80-120	
Naphthalene	50.0	50.2	100	80-120	
o-Xylene	50.0	46.7	93.4	80-120	
sec-Butylbenzene	50.0	49.1	98.2	80-120	
Styrene	50.0	48.7	97.4	80-120	
tert-Butylbenzene	50.0	49.6	99.2	80-120	
Tetrachloroethene	50.0	48.8	97.6	80-120	
Toluene	50.0	43.6	87.1	80-120	
trans-1,2-Dichloroethene	50.0	44.3	88.7	80-120	
trans-1,3-Dichloropropene	50.0	48.5	97.1	80-120	
trans-1,4-Dichloro-2-butene	50.0	47.5	94.9	80-120	
Trichloroethene	50.0	45.6	91.3	80-120	
Trichlorofluoromethane	50.0	49.8	99.7	80-120	
Vinyl Acetate	100	98.8	98.8	80-120	
Vinyl Chloride	50.0	47.2	94.4	80-120	
Methyl Acrylate	50.0	49.9	99.8	80-120	
Ethyl Acrylate	50.0	48.4	96.9	80-120	
Butyl acrylate	50.0	47.3	94.5	80-120	
2-Ethylhexyl Acrylate	50.0	47.2	94.4	80-120	
Allyl alcohol	1000	930	93.0	80-120	
1,2-Dichloroethylene (total)	100	88.1	88.1	80-120	
Xylenes (total)	150	145	96.6	80-120	
1,4-Dioxane	1000	989	98.9	80-120	
Dibromofluoromethane	50.0	49.4	98.8	71-125	
1,2-Dichloroethane-d4	50.0	46.8	93.7	70-125	
Toluene-d8	50.0	46.8	93.6	75-125	
4-Bromofluorobenzene	50.0	47.3	94.6	72-125	

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder HS24051535

RunID W060514A.D

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix LIQUID
Lab Smp Id VSTD050
Data Type MS DATA
File ID W060514A.D

Fraction VOA
Client Smp ID VSTD050
SampleType METHSPIKE
Inj Date 05-JUN-2024 2338

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
1,1,1,2-Tetrachloroethane	50.0	48.0	96.0	80-120	
1,1,1-Trichloroethane	50.0	47.1	94.3	80-120	
1,1,2,2-Tetrachloroethane	50.0	47.9	95.9	80-120	
Freon TF	50.0	47.4	94.9	80-120	
Methyl acetate	50.0	47.8	95.7	80-120	
Cyclohexane	50.0	46.3	92.6	80-120	
Methylcyclohexane	50.0	46.1	92.1	80-120	
Carbon Disulfide	100	89.6	89.6	80-120	
2-Hexanone	100	92.7	92.7	80-120	
1,1,2-Trichloroethane	50.0	48.2	96.4	80-120	
1,1-Dichloroethane	50.0	46.8	93.6	80-120	
1,1-Dichloroethene	50.0	45.0	90.0	80-120	
1,1-Dichloropropene	50.0	44.5	89.0	80-120	
1,2,3-Trichlorobenzene	50.0	49.4	98.8	80-120	
1,2,3-Trichloropropane	50.0	46.0	92.0	80-120	
1,2,4-Trichlorobenzene	50.0	46.1	92.3	80-120	
1,2,4-Trimethylbenzene	50.0	50.9	102	80-120	
1,2-Dibromo-3-Chloropropane	50.0	48.5	97.0	80-120	
1,2-Dibromoethane	50.0	48.2	96.4	80-120	
Acrolein	100	117	117	80-120	
Acrylonitrile	100	95.5	95.6	80-120	
1,2-Dichlorobenzene	50.0	47.4	94.8	80-120	
1,2-Dichloroethane	50.0	47.8	95.7	80-120	
1,2-Dichloropropane	50.0	46.2	92.4	80-120	
1,3,5-Trimethylbenzene	50.0	51.8	104	80-120	
1,3-Dichlorobenzene	50.0	44.4	88.8	80-120	
1,3-Dichloropropane	50.0	48.7	97.4	80-120	
1,4-Dichlorobenzene	50.0	47.2	94.5	80-120	
1-Chlorohexane	50.0	41.9	83.7	80-120	
2,2-Dichloropropane	50.0	43.6	87.3	80-120	
2-Butanone	100	98.9	99.0	80-120	
2-Chloroethylvinyl ether	100	94.0	94.0	80-120	
2-Chlorotoluene	50.0	46.7	93.5	80-120	
4-Chlorotoluene	50.0	46.9	93.8	80-120	

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder HS24051535

RunID W060514A.D

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix	LIQUID	**Fraction**	VOA
Lab Smp Id	VSTD050	**Client Smp ID**	VSTD050
Data Type	MS DATA	**SampleType**	METHSPIKE
File ID	W060514A.D	**Inj Date**	05-JUN-2024 2338

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
p-Isopropyltoluene	50.0	52.0	104	80-120	
4-Methyl-2-Pentanone	100	95.0	95.0	80-120	
Acetone	100	108	108	80-120	
Acetonitrile	500	451	90.3	80-120	
Allyl Chloride	50.0	46.2	92.5	80-120	
Benzene	50.0	46.1	92.2	80-120	
Bromobenzene	50.0	47.8	95.5	80-120	
Bromochloromethane	50.0	49.0	98.1	80-120	
Bromodichloromethane	50.0	45.3	90.6	80-120	
Bromoform	50.0	43.4	86.9	80-120	
Bromomethane	50.0	54.1	108	80-120	
Carbon Tetrachloride	50.0	46.3	92.7	80-120	
Chlorobenzene	50.0	47.2	94.5	80-120	
Chloroethane	50.0	47.7	95.4	80-120	
Chloroform	50.0	43.6	87.1	80-120	
Chloromethane	50.0	44.4	88.9	80-120	
Chloroprene	50.0	45.6	91.3	80-120	
cis-1,2-Dichloroethene	50.0	47.0	94.1	80-120	
cis-1,3-Dichloropropene	50.0	44.2	88.4	80-120	
Dibromochloromethane	50.0	46.6	93.1	80-120	
Dibromomethane	50.0	47.2	94.3	80-120	
Dichlorodifluoromethane	50.0	44.7	89.4	80-120	
Ethylbenzene	50.0	47.1	94.2	80-120	
Ethyl Methacrylate	50.0	47.6	95.1	80-120	
Iodomethane	100	160	160	80-120	*
Isobutyl Alcohol	1000	944	94.4	70-130	
Propionitrile	500	485	97.1	70-130	
Hexachlorobutadiene	50.0	46.1	92.3	80-120	
Isopropylbenzene	50.0	51.5	103	80-120	
m,p-Xylenes	100	96.0	96.0	80-120	
Methyl tert-butyl ether	50.0	48.5	97.0	80-120	
Methylene Chloride	50.0	47.5	94.9	80-120	
Methacrylonitrile	50.0	45.0	89.9	80-120	
Methyl Methacrylate	50.0	46.1	92.1	80-120	

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder HS24051535

RunID W060514A.D

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix LIQUID
Lab Smp Id VSTD050
Data Type MS DATA
File ID W060514A.D

Fraction VOA
Client Smp ID VSTD050
SampleType METHSPIKE
Inj Date 05-JUN-2024 2338

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
n-Butylbenzene	50.0	45.7	91.3	80-120	
n-Propylbenzene	50.0	49.5	99.0	80-120	
Naphthalene	50.0	48.6	97.1	80-120	
o-Xylene	50.0	49.6	99.3	80-120	
sec-Butylbenzene	50.0	51.2	102	80-120	
Styrene	50.0	50.3	101	80-120	
tert-Butylbenzene	50.0	49.2	98.4	80-120	
Tetrachloroethene	50.0	46.5	93.0	80-120	
Toluene	50.0	45.7	91.5	80-120	
trans-1,2-Dichloroethene	50.0	46.7	93.5	80-120	
trans-1,3-Dichloropropene	50.0	43.4	86.9	80-120	
trans-1,4-Dichloro-2-butene	50.0	44.6	89.3	80-120	
Trichloroethene	50.0	46.0	92.0	80-120	
Trichlorofluoromethane	50.0	46.4	92.8	80-120	
Vinyl Acetate	100	95.7	95.7	80-120	
Vinyl Chloride	50.0	44.9	89.9	80-120	
Methyl Acrylate	50.0	47.4	94.9	80-120	
Ethyl Acrylate	50.0	45.9	91.8	80-120	
Butyl acrylate	50.0	45.1	90.1	80-120	
2-Ethylhexyl Acrylate	50.0	47.9	95.8	80-120	
Allyl alcohol	1000	883	88.3	80-120	
1,2-Dichloroethylene (total)	100	85.3	85.3	80-120	
Xylenes (total)	150	144	96.1	80-120	
1,4-Dioxane	1000	915	91.5	80-120	
Dibromofluoromethane	50.0	44.0	88.1	71-125	
1,2-Dichloroethane-d4	50.0	45.5	91.0	70-125	
Toluene-d8	50.0	44.4	88.8	75-125	
4-Bromofluorobenzene	50.0	45.7	91.4	72-125	

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Form 7

Continuing Calibration Verification (CCV)

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24051535

Client

Bhate Environmental Associates, Inc.

Project

LHAAP-58

06/24/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder HS24051535

RunID U053002.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U053002.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 30-MAY-2024 1458
ICAL Date(s) 29-MAY-2024, 29-MAY-2024
ICAL Times 10:39, 13:53
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Dichlorodifluoromethane	0.186	0.187	0.187	0.100	-0.478	20.0	Averaged	
Chloromethane	50.0	51.1	0.682	0.100	-2.270	20.0	Linear	
Propionitrile	500	481	0.053	0.010	3.85	20.0	Quadratic	
Vinyl Chloride	0.378	0.355	0.355	0.100	6.02	20.0	Averaged	
Bromomethane	50.0	43.3	0.144	0.100	13.4	20.0	Linear	
Chloroethane	50.0	48.0	0.253	0.100	4.05	20.0	Quadratic	
Trichlorofluoromethane	0.448	0.437	0.437	0.100	2.62	20.0	Averaged	
Acrolein	100	101	0.018	0.010	-0.639	20.0	Quadratic	
Acetone	100	88.8	0.134	0.100	11.2	20.0	Quadratic	
1,1-Dichloroethene	0.330	0.294	0.294	0.100	10.7	20.0	Averaged	
Isobutyl Alcohol	1000	1009	0.054	0.005	-0.938	20.0	Quadratic	
Acetonitrile	0.041	0.038	0.038	0.005	7.36	20.0	Averaged	
Allyl Chloride	50.0	46.7	0.914	0.100	6.64	20.0	Quadratic	
Iodomethane	100	111	0.090	0.100	-11.466	20.0	Quadratic	*
Acrylonitrile	100	93.4	0.130	0.050	6.62	20.0	Quadratic	
Methylene Chloride	50.0	47.9	0.370	0.100	4.29	20.0	Quadratic	
Methyl tert-butyl ether	50.0	47.0	0.870	0.100	5.98	20.0	Quadratic	
Carbon Disulfide	0.925	0.809	0.809	0.100	12.5	20.0	Averaged	
trans-1,2-Dichloroethene	0.373	0.325	0.325	0.100	12.9	20.0	Averaged	
Vinyl Acetate	0.220	0.209	0.209	0.010	5.13	20.0	Averaged	
1,1-Dichloroethane	0.716	0.616	0.616	0.200	13.9	20.0	Averaged	
Chloroprene	0.525	0.496	0.496	0.100	5.57	20.0	Averaged	
2-Butanone	0.223	0.198	0.198	0.100	11.4	20.0	Averaged	
Methacrylonitrile	50.0	51.7	0.236	0.100	-3.382	20.0	Quadratic	
2,2-Dichloropropane	0.470	0.442	0.442	0.100	5.98	20.0	Averaged	
cis-1,2-Dichloroethene	0.460	0.390	0.390	0.100	15.2	20.0	Averaged	
Chloroform	0.715	0.631	0.631	0.200	11.7	20.0	Averaged	
Bromochloromethane	50.0	45.0	0.191	0.100	9.94	20.0	Linear	
30 Dibromofluoromethane	50.0	58.8	0.375	0.100	-17.561	20.0	Quadratic	
1,1,1-Trichloroethane	0.501	0.480	0.480	0.100	4.14	20.0	Averaged	
1,1-Dichloropropene	0.362	0.317	0.317	0.100	12.4	20.0	Averaged	
1,2-Dichloroethane	50.0	46.5	0.345	0.100	7.07	20.0	Linear	
Carbon Tetrachloride	0.284	0.254	0.254	0.100	10.3	20.0	Averaged	
35 1,2-Dichloroethane-d4	50.0	56.7	0.436	0.100	-13.350	20.0	Linear	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder HS24051535

RunID U053002.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U053002.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 30-MAY-2024 1458
ICAL Date(s) 29-MAY-2024, 29-MAY-2024
ICAL Times 10:39, 13:53
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Benzene	1.18	1.01	1.01	0.500	13.9	20.0	Averaged	
Trichloroethene	0.290	0.248	0.248	0.200	14.3	20.0	Averaged	
Bromodichloromethane	0.317	0.285	0.285	0.200	10.1	20.0	Averaged	
Methyl Methacrylate	50.0	45.2	0.158	0.100	9.60	20.0	Quadratic	
2-Chloroethylvinyl ether	100	87.0	0.090	0.001	13.0	20.0	Quadratic	
1,2-Dichloropropane	0.311	0.269	0.269	0.100	13.2	20.0	Averaged	
2-Nitropropane	50.0	45.3	0.078	0.000	9.38	20.0	Quadratic	
Dibromomethane	0.180	0.158	0.158	0.100	12.5	20.0	Averaged	
4-Methyl-2-Pentanone	100	93.8	0.316	0.100	6.16	20.0	Quadratic	
cis-1,3-Dichloropropene	50.0	45.6	0.381	0.200	8.80	20.0	Quadratic	
48 Toluene-d8	50.0	57.8	1.10	0.100	-15.605	20.0	Linear	
Ethyl Methacrylate	0.387	0.329	0.329	0.100	15.1	20.0	Averaged	
Toluene	1.36	1.11	1.11	0.400	17.9	20.0	Averaged	
trans-1,3-Dichloropropene	50.0	45.7	0.312	0.100	8.64	20.0	Quadratic	
2-Hexanone	100	94.0	0.206	0.100	6.04	20.0	Quadratic	
1,1,2-Trichloroethane	50.0	46.4	0.221	0.100	7.21	20.0	Quadratic	
1,3-Dichloropropane	0.553	0.482	0.482	0.100	12.9	20.0	Averaged	
Dibromochloromethane	50.0	43.7	0.255	0.100	12.7	20.0	Quadratic	
Tetrachloroethene	0.237	0.215	0.215	0.200	9.18	20.0	Averaged	
1,2-Dibromoethane	0.298	0.265	0.265	0.100	11.2	20.0	Averaged	
1-Chlorohexane	50.0	45.2	0.187	0.100	9.57	20.0	Quadratic	
Chlorobenzene	0.862	0.713	0.713	0.500	17.3	20.0	Averaged	
1,1,1,2-Tetrachloroethane	0.275	0.245	0.245	0.100	11.0	20.0	Averaged	
Ethylbenzene	50.0	45.2	0.359	0.100	9.70	20.0	Quadratic	
m,p-Xylenes	100	89.2	0.458	0.100	10.8	20.0	Quadratic	
o-Xylene	50.0	43.0	0.443	0.300	14.1	20.0	Linear	
Styrene	0.828	0.749	0.749	0.300	9.52	20.0	Averaged	
Bromoform	50.0	41.5	0.156	0.100	16.9	20.0	Quadratic	
Isopropylbenzene	1.19	1.08	1.08	0.100	9.41	20.0	Averaged	
1,1,2,2-Tetrachloroethane	0.831	0.718	0.718	0.300	13.6	20.0	Averaged	
69 4-Bromofluorobenzene	50.0	57.1	0.397	0.100	-14.263	20.0	Linear	
1,2,3-Trichloropropane	0.779	0.714	0.714	0.100	8.34	20.0	Averaged	
trans-1,4-Dichloro-2-butene	0.085	0.077	0.077	0.050	10.2	20.0	Averaged	
n-Propylbenzene	2.69	2.44	2.44	0.100	9.44	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder HS24051535

RunID U053002.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U053002.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 30-MAY-2024 1458
ICAL Date(s) 29-MAY-2024, 29-MAY-2024
ICAL Times 10:39, 13:53
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Bromobenzene	0.688	0.590	0.590	0.100	14.2	20.0	Averaged	
1,3,5-Trimethylbenzene	50.0	46.1	1.69	0.100	7.82	20.0	Quadratic	
2-Chlorotoluene	50.0	46.9	1.47	0.100	6.22	10.0	Quadratic	
4-Chlorotoluene	1.93	1.71	1.71	0.100	11.8	20.0	Averaged	
tert-Butylbenzene	1.51	1.43	1.43	0.100	5.18	20.0	Averaged	
1,2,4-Trimethylbenzene	50.0	45.1	1.70	0.100	9.82	20.0	Quadratic	
sec-Butylbenzene	2.05	1.95	1.95	0.100	4.80	20.0	Averaged	
p-Isopropyltoluene	1.79	1.71	1.71	0.100	4.15	20.0	Averaged	
1,3-Dichlorobenzene	1.16	1.02	1.02	0.600	11.7	20.0	Averaged	
1,4-Dichlorobenzene	1.29	1.08	1.08	0.400	16.2	20.0	Averaged	
Benzyl Chloride	50.0	42.8	0.345	0.010	14.4	20.0	Quadratic	
n-Butylbenzene	50.0	47.0	1.51	0.500	5.99	20.0	Quadratic	
1,2-Dichlorobenzene	1.20	1.02	1.02	0.400	15.4	20.0	Averaged	
1,2-Dibromo-3-Chloropropane	50.0	43.3	0.090	0.050	13.5	20.0	Quadratic	
1,2,4-Trichlorobenzene	0.758	0.672	0.672	0.200	11.3	20.0	Averaged	
Hexachlorobutadiene	0.304	0.303	0.303	0.100	0.337	20.0	Averaged	
Naphthalene	50.0	45.4	1.67	0.200	9.25	20.0	Quadratic	
1,2,3-Trichlorobenzene	0.706	0.617	0.617	0.100	12.6	20.0	Averaged	
Methyl Acetate	50.0	48.2	0.382	0.100	3.55	20.0	Linear	
Freon TF	50.0	47.1	0.262	0.100	5.74	20.0	Quadratic	
Cyclohexane	50.0	47.3	0.449	0.100	5.48	20.0	Quadratic	
Tetrahydrofuran	100	97.0	0.069	0.001	2.99	20.0	Quadratic	
Methylcyclohexane	50.0	45.1	0.555	0.100	9.89	20.0	Quadratic	
1,4-Dioxane	1000	875	0.004	0.001	12.5	20.0	Quadratic	
n-Butanol	0.013	0.011	0.011	0.005	19.0	20.0	Averaged	
n-Hexane	50.0	48.3	0.322	0.100	3.38	20.0	Quadratic	
Diethyl ether	50.0	48.9	0.256	0.100	2.27	20.0	Quadratic	
Tert-butyl alcohol	1000	931	0.032	0.005	6.90	20.0	Quadratic	
Isopropyl alcohol	1000	939	0.025	0.005	6.07	20.0	Quadratic	
Amyl alcohol	1000	860	0.009	0.005	14.0	20.0	Quadratic	
Diisopropyl ether	1.28	1.09	1.09	0.100	14.7	20.0	Averaged	
Butyl acrylate	50.0	43.1	0.460	0.100	13.7	20.0	Quadratic	
n-Amyl acetate	0.543	0.474	0.474	0.100	12.7	20.0	Averaged	
Dicyclopentadiene	2.56	2.16	2.16	0.100	15.9	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder HS24051535

RunID U053002.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U053002.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 30-MAY-2024 1458
ICAL Date(s) 29-MAY-2024, 29-MAY-2024
ICAL Times 10:39, 13:53
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
1,2,3-Trimethylbenzene	50.0	43.9	1.53	0.100	12.3	20.0	Linear	
Ethanol	1000	974	0.005	0.001	2.56	20.0	Quadratic	
tert-Butyl formate	0.395	0.329	0.329	0.100	16.7	20.0	Averaged	
3,3-Dimethyl-1-butanol	0.035	0.029	0.029	0.005	17.8	20.0	Averaged	
tert-Amyl methyl ether	1.17	0.988	0.988	0.005	15.6	20.0	Averaged	
tert-Butyl ethyl ether	1.14	0.972	0.972	0.100	15.0	20.0	Averaged	
tert-Amyl alcohol	0.040	0.033	0.033	0.005	17.6	20.0	Averaged	
4-Methyl-2-pentanol	1000	888	0.072	0.005	11.2	20.0	Quadratic	
1,3-Butadiene	0.185	0.176	0.176	0.100	4.64	20.0	Averaged	
Epichlorohydrin	200	183	0.016	0.001	8.26	20.0	Quadratic	
94 1,2-Dichloroethylene (total	0.417	0.358	0.358	0.200	14.2	20.0	Averaged	
95 Xylenes (total)	150	++++	0.409	0.100	++++	20.0	Quadratic	*
alpha-Methylstyrene	50.0	45.2	0.691	0.100	9.52	20.0	Quadratic	
Ethyl Acetate	0.461	0.418	0.418	0.100	9.21	20.0	Averaged	
Methyl Acrylate	50.0	46.6	0.429	0.100	6.86	20.0	Quadratic	
n-Butyl acetate	0.525	0.461	0.461	0.100	12.2	20.0	Averaged	
Cyclohexanone	1000	820	0.023	0.005	18.0	20.0	Quadratic	
Isoprene	50.0	48.6	0.077	0.010	2.88	20.0	Quadratic	
Isopropyl acetate	0.830	0.736	0.736	0.100	11.3	20.0	Averaged	
Allyl alcohol	1000	966	0.016	0.004	3.38	20.0	Quadratic	
Acetaldehyde	200	190	0.078	0.001	5.18	20.0	Quadratic	
Methyl Amyl Ketone	0.609	0.515	0.515	0.100	15.5	20.0	Averaged	
Dimethyl Disulfide	50.0	31.8	0.146	0.020	36.3	20.0	Quadratic	*
Isobutylene	50.0	50.1	0.154	0.010	-0.181	20.0	Quadratic	
Ethyl Acrylate	50.0	45.9	0.812	0.100	8.24	20.0	Quadratic	
Butyl methacrylate	0.579	0.511	0.511	0.100	11.7	20.0	Averaged	
Propylene oxide	100	98.0	0.028	0.005	2.00	20.0	Quadratic	
2-Ethylhexyl Acrylate	50.0	43.2	0.532	0.100	13.5	20.0	Quadratic	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder HS24051535

RunID U053029.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U053029.D
Analysis Type WATER
Lab Sample ID CCV

Injection Date 31-MAY-2024 0047
ICAL Date(s) 29-MAY-2024, 29-MAY-2024
ICAL Times 10:39, 13:53
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Dichlorodifluoromethane	0.186	0.199	0.199	0.100	-6.869	50.0	Averaged	
Chloromethane	50.0	55.8	0.744	0.100	-11.683	50.0	Linear	
Propionitrile	500	477	0.052	0.010	4.64	50.0	Quadratic	
Vinyl Chloride	0.378	0.374	0.374	0.100	0.849	50.0	Averaged	
Bromomethane	50.0	41.5	0.138	0.100	17.1	50.0	Linear	
Chloroethane	50.0	50.8	0.268	0.100	-1.568	50.0	Quadratic	
Trichlorofluoromethane	0.448	0.486	0.486	0.100	-8.411	50.0	Averaged	
Acrolein	100	91.4	0.016	0.010	8.62	50.0	Quadratic	
Acetone	100	79.7	0.121	0.100	20.3	50.0	Quadratic	
1,1-Dichloroethene	0.330	0.307	0.307	0.100	6.78	50.0	Averaged	
Isobutyl Alcohol	1000	978	0.052	0.005	2.25	50.0	Quadratic	
Acetonitrile	0.041	0.041	0.041	0.005	-2.211	50.0	Averaged	
Allyl Chloride	50.0	50.0	0.980	0.100	0.098	50.0	Quadratic	
Iodomethane	100	121	0.075	0.100	-21.467	50.0	Quadratic	
Acrylonitrile	100	94.5	0.131	0.050	5.52	50.0	Quadratic	
Methylene Chloride	50.0	49.4	0.382	0.100	1.18	50.0	Quadratic	
Methyl tert-butyl ether	50.0	48.6	0.900	0.100	2.79	50.0	Quadratic	
Carbon Disulfide	0.925	0.853	0.853	0.100	7.74	50.0	Averaged	
trans-1,2-Dichloroethene	0.373	0.329	0.329	0.100	11.6	50.0	Averaged	
Vinyl Acetate	0.220	0.197	0.197	0.010	10.8	50.0	Averaged	
1,1-Dichloroethane	0.716	0.649	0.649	0.200	9.29	50.0	Averaged	
Chloroprene	0.525	0.535	0.535	0.100	-1.953	50.0	Averaged	
2-Butanone	0.223	0.175	0.175	0.100	21.5	50.0	Averaged	
Methacrylonitrile	50.0	49.0	0.224	0.100	2.05	50.0	Quadratic	
2,2-Dichloropropane	0.470	0.388	0.388	0.100	17.5	50.0	Averaged	
cis-1,2-Dichloroethene	0.460	0.395	0.395	0.100	14.3	50.0	Averaged	
Chloroform	0.715	0.655	0.655	0.200	8.41	50.0	Averaged	
Bromochloromethane	50.0	46.5	0.197	0.100	6.91	50.0	Linear	
30 Dibromofluoromethane	50.0	58.5	0.373	0.100	-17.017	50.0	Quadratic	
1,1,1-Trichloroethane	0.501	0.516	0.516	0.100	-3.029	50.0	Averaged	
1,1-Dichloropropene	0.362	0.341	0.341	0.100	5.79	50.0	Averaged	
1,2-Dichloroethane	50.0	49.0	0.364	0.100	2.07	50.0	Linear	
Carbon Tetrachloride	0.284	0.283	0.283	0.100	0.181	50.0	Averaged	
35 1,2-Dichloroethane-d4	50.0	57.6	0.443	0.100	-15.199	50.0	Linear	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder HS24051535

RunID U053029.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U053029.D
Analysis Type WATER
Lab Sample ID CCV

Injection Date 31-MAY-2024 0047
ICAL Date(s) 29-MAY-2024, 29-MAY-2024
ICAL Times 10:39, 13:53
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Benzene	1.18	1.04	1.04	0.500	11.5	50.0	Averaged	
Trichloroethene	0.290	0.263	0.263	0.200	9.17	50.0	Averaged	
Bromodichloromethane	0.317	0.299	0.299	0.200	5.72	50.0	Averaged	
Methyl Methacrylate	50.0	39.2	0.136	0.100	21.5	50.0	Quadratic	
2-Chloroethylvinyl ether	100	80.0	0.082	0.001	20.0	50.0	Quadratic	
1,2-Dichloropropane	0.311	0.285	0.285	0.100	8.17	50.0	Averaged	
2-Nitropropane	50.0	45.9	0.079	0.000	8.28	50.0	Quadratic	
Dibromomethane	0.180	0.161	0.161	0.100	10.5	50.0	Averaged	
4-Methyl-2-Pentanone	100	87.7	0.295	0.100	12.3	50.0	Quadratic	
cis-1,3-Dichloropropene	50.0	45.5	0.380	0.200	8.96	50.0	Quadratic	
48 Toluene-d8	50.0	57.4	1.10	0.100	-14.811	50.0	Linear	
Ethyl Methacrylate	0.387	0.332	0.332	0.100	14.2	50.0	Averaged	
Toluene	1.36	1.15	1.15	0.400	14.9	50.0	Averaged	
trans-1,3-Dichloropropene	50.0	44.9	0.307	0.100	10.2	50.0	Quadratic	
2-Hexanone	100	83.8	0.182	0.100	16.2	50.0	Quadratic	
1,1,2-Trichloroethane	50.0	46.8	0.223	0.100	6.31	50.0	Quadratic	
1,3-Dichloropropane	0.553	0.480	0.480	0.100	13.2	50.0	Averaged	
Dibromochloromethane	50.0	44.7	0.261	0.100	10.6	50.0	Quadratic	
Tetrachloroethene	0.237	0.225	0.225	0.200	5.05	50.0	Averaged	
1,2-Dibromoethane	0.298	0.254	0.254	0.100	14.7	50.0	Averaged	
1-Chlorohexane	50.0	49.1	0.204	0.100	1.88	50.0	Quadratic	
Chlorobenzene	0.862	0.745	0.745	0.500	13.6	50.0	Averaged	
1,1,1,2-Tetrachloroethane	0.275	0.256	0.256	0.100	6.99	50.0	Averaged	
Ethylbenzene	50.0	47.1	0.375	0.100	5.84	50.0	Quadratic	
m,p-Xylenes	100	93.9	0.483	0.100	6.14	50.0	Quadratic	
o-Xylene	50.0	45.7	0.471	0.300	8.67	50.0	Linear	
Styrene	0.828	0.780	0.780	0.300	5.77	50.0	Averaged	
Bromoform	50.0	40.1	0.151	0.100	19.7	50.0	Quadratic	
Isopropylbenzene	1.19	1.16	1.16	0.100	2.78	50.0	Averaged	
1,1,2,2-Tetrachloroethane	0.831	0.680	0.680	0.300	18.1	50.0	Averaged	
69 4-Bromofluorobenzene	50.0	58.4	0.406	0.100	-16.871	50.0	Linear	
1,2,3-Trichloropropane	0.779	0.655	0.655	0.100	15.9	50.0	Averaged	
trans-1,4-Dichloro-2-butene	0.085	0.070	0.070	0.050	18.2	50.0	Averaged	
n-Propylbenzene	2.69	2.54	2.54	0.100	5.81	50.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder HS24051535

RunID U053029.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U053029.D
Analysis Type WATER
Lab Sample ID CCV

Injection Date 31-MAY-2024 0047
ICAL Date(s) 29-MAY-2024, 29-MAY-2024
ICAL Times 10:39, 13:53
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Bromobenzene	0.688	0.602	0.602	0.100	12.4	50.0	Averaged	
1,3,5-Trimethylbenzene	50.0	47.9	1.75	0.100	4.28	50.0	Quadratic	
2-Chlorotoluene	50.0	49.0	1.54	0.100	2.02	10.0	Quadratic	
4-Chlorotoluene	1.93	1.77	1.77	0.100	8.45	50.0	Averaged	
tert-Butylbenzene	1.51	1.52	1.52	0.100	-0.158	50.0	Averaged	
1,2,4-Trimethylbenzene	50.0	45.8	1.73	0.100	8.34	50.0	Quadratic	
sec-Butylbenzene	2.05	2.05	2.05	0.100	-0.036	50.0	Averaged	
p-Isopropyltoluene	1.79	1.78	1.78	0.100	0.246	50.0	Averaged	
1,3-Dichlorobenzene	1.16	1.05	1.05	0.600	9.85	50.0	Averaged	
1,4-Dichlorobenzene	1.29	1.11	1.11	0.400	13.8	50.0	Averaged	
Benzyl Chloride	50.0	29.9	0.235	0.010	40.2	50.0	Quadratic	
n-Butylbenzene	50.0	47.1	1.52	0.500	5.75	50.0	Quadratic	
1,2-Dichlorobenzene	1.20	1.05	1.05	0.400	13.0	50.0	Averaged	
1,2-Dibromo-3-Chloropropane	50.0	37.7	0.078	0.050	24.7	50.0	Quadratic	
1,2,4-Trichlorobenzene	0.758	0.659	0.659	0.200	13.1	50.0	Averaged	
Hexachlorobutadiene	0.304	0.276	0.276	0.100	9.10	50.0	Averaged	
Naphthalene	50.0	42.4	1.55	0.200	15.3	50.0	Quadratic	
1,2,3-Trichlorobenzene	0.706	0.607	0.607	0.100	14.0	50.0	Averaged	
Methyl Acetate	50.0	48.4	0.383	0.100	3.17	50.0	Linear	
Freon TF	50.0	48.9	0.272	0.100	2.23	50.0	Quadratic	
Cyclohexane	50.0	49.8	0.474	0.100	0.397	50.0	Quadratic	
Tetrahydrofuran	100	96.1	0.069	0.001	3.92	50.0	Quadratic	
Methylcyclohexane	50.0	48.3	0.596	0.100	3.49	50.0	Quadratic	
1,4-Dioxane	1000	746	0.004	0.001	25.4	50.0	Quadratic	
n-Butanol	0.013	0.009	0.009	0.005	32.0	50.0	Averaged	
n-Hexane	50.0	45.9	0.305	0.100	8.25	50.0	Quadratic	
Diethyl ether	50.0	50.5	0.265	0.100	-0.904	50.0	Quadratic	
Tert-butyl alcohol	1000	826	0.028	0.005	17.4	50.0	Quadratic	
Isopropyl alcohol	1000	813	0.022	0.005	18.7	50.0	Quadratic	
Amyl alcohol	1000	760	0.008	0.005	24.0	50.0	Quadratic	
Diisopropyl ether	1.28	1.20	1.20	0.100	5.83	50.0	Averaged	
Butyl acrylate	50.0	44.3	0.473	0.100	11.4	50.0	Quadratic	
n-Amyl acetate	0.543	0.469	0.469	0.100	13.7	50.0	Averaged	
Dicyclopentadiene	2.56	2.46	2.46	0.100	3.93	50.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder HS24051535

RunID U053029.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U053029.D
Analysis Type WATER
Lab Sample ID CCV

Injection Date 31-MAY-2024 0047
ICAL Date(s) 29-MAY-2024, 29-MAY-2024
ICAL Times 10:39, 13:53
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
1,2,3-Trimethylbenzene	50.0	47.5	1.65	0.100	4.99	50.0	Linear	
Ethanol	1000	859	0.004	0.001	14.1	50.0	Quadratic	
tert-Butyl formate	0.395	0.281	0.281	0.100	28.9	50.0	Averaged	
3,3-Dimethyl-1-butanol	0.035	0.024	0.024	0.005	30.1	50.0	Averaged	
tert-Amyl methyl ether	1.17	1.02	1.02	0.005	12.8	50.0	Averaged	
tert-Butyl ethyl ether	1.14	1.03	1.03	0.100	10.1	50.0	Averaged	
tert-Amyl alcohol	0.040	0.028	0.028	0.005	29.8	50.0	Averaged	
4-Methyl-2-pentanol	1000	820	0.067	0.005	18.0	50.0	Quadratic	
1,3-Butadiene	0.185	0.187	0.187	0.100	-1.266	50.0	Averaged	
Epichlorohydrin	200	173	0.015	0.001	13.5	50.0	Quadratic	
94 1,2-Dichloroethylene (total	0.417	0.362	0.362	0.200	13.1	50.0	Averaged	
95 Xylenes (total)	150	++++	0.440	0.100	++++	50.0	Quadratic	*
alpha-Methylstyrene	50.0	45.9	0.702	0.100	8.12	50.0	Quadratic	
Ethyl Acetate	0.461	0.393	0.393	0.100	14.6	50.0	Averaged	
Methyl Acrylate	50.0	45.8	0.421	0.100	8.49	50.0	Quadratic	
n-Butyl acetate	0.525	0.443	0.443	0.100	15.6	50.0	Averaged	
Cyclohexanone	1000	625	0.018	0.005	37.5	50.0	Quadratic	
Isoprene	50.0	54.0	0.086	0.010	-7.985	50.0	Quadratic	
Isopropyl acetate	0.830	0.714	0.714	0.100	13.9	50.0	Averaged	
Allyl alcohol	1000	918	0.015	0.004	8.25	50.0	Quadratic	
Acetaldehyde	200	325	0.138	0.001	-62.424	50.0	Quadratic	
Methyl Amyl Ketone	0.609	0.498	0.498	0.100	18.3	50.0	Averaged	
Dimethyl Disulfide	50.0	33.1	0.153	0.020	33.8	50.0	Quadratic	
Isobutylene	++++	++++	8.246e+60	0.010	++++	50.0	Quadratic	*
Ethyl Acrylate	50.0	48.5	0.860	0.100	3.05	50.0	Quadratic	
Butyl methacrylate	0.579	0.554	0.554	0.100	4.26	50.0	Averaged	
Propylene oxide	100	112	0.032	0.005	-11.721	50.0	Quadratic	
2-Ethylhexyl Acrylate	50.0	48.4	0.602	0.100	3.17	50.0	Quadratic	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder HS24051535

RunID U060602.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U060602.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 06-JUN-2024 1050
ICAL Date(s) 03-JUN-2024, 05-JUN-2024
ICAL Times 17:24, 22:12
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Dichlorodifluoromethane	50.0	52.3	0.163	0.100	-4.696	20.0	Linear	
Chloromethane	50.0	51.5	0.594	0.100	-3.061	20.0	Linear	
Propionitrile	500	449	0.044	0.010	10.1	20.0	Linear	
Vinyl Chloride	0.340	0.322	0.322	0.100	5.27	20.0	Averaged	
Bromomethane	50.0	48.0	0.148	0.100	4.01	20.0	Linear	
Chloroethane	50.0	47.4	0.233	0.100	5.24	20.0	Linear	
Trichlorofluoromethane	0.438	0.424	0.424	0.100	3.12	20.0	Averaged	
Acrolein	100	90.2	0.015	0.010	9.81	20.0	Quadratic	
Acetone	100	91.1	0.122	0.100	8.94	20.0	Linear	
1,1-Dichloroethene	0.287	0.262	0.262	0.100	8.49	20.0	Averaged	
Isobutyl Alcohol	0.053	0.047	0.047	0.005	10.8	20.0	Averaged	
Acetonitrile	500	457	0.038	0.005	8.68	20.0	Linear	
Allyl Chloride	50.0	45.6	0.855	0.100	8.76	20.0	Linear	
Iodomethane	100	149	0.111	0.100	-49.081	20.0	Quadratic	*
Acrylonitrile	100	90.7	0.114	0.050	9.33	20.0	Linear	
Methylene Chloride	50.0	49.1	0.339	0.100	1.86	20.0	Linear	
Methyl tert-butyl ether	50.0	45.1	0.768	0.100	9.79	20.0	Linear	
Carbon Disulfide	0.822	0.760	0.760	0.100	7.58	20.0	Averaged	
trans-1,2-Dichloroethene	50.0	47.8	0.294	0.100	4.38	20.0	Linear	
Vinyl Acetate	100	95.0	0.186	0.010	5.03	20.0	Linear	
1,1-Dichloroethane	50.0	47.7	0.574	0.200	4.58	20.0	Linear	
Chloroprene	0.510	0.465	0.465	0.100	8.86	20.0	Averaged	
2-Butanone	100	92.0	0.170	0.100	8.02	20.0	Linear	
Methacrylonitrile	50.0	45.8	0.202	0.100	8.41	20.0	Linear	
2,2-Dichloropropane	0.425	0.408	0.408	0.100	4.10	20.0	Averaged	
cis-1,2-Dichloroethene	50.0	47.7	0.352	0.100	4.63	20.0	Linear	
Chloroform	0.659	0.590	0.590	0.200	10.5	20.0	Averaged	
Bromochloromethane	50.0	49.4	0.178	0.100	1.20	20.0	Linear	
30 Dibromofluoromethane	0.360	0.375	0.375	0.100	-4.004	20.0	Averaged	
1,1,1-Trichloroethane	0.473	0.451	0.451	0.100	4.60	20.0	Averaged	
1,1-Dichloropropene	0.323	0.296	0.296	0.100	8.31	20.0	Averaged	
1,2-Dichloroethane	50.0	49.2	0.340	0.100	1.58	20.0	Linear	
Carbon Tetrachloride	0.266	0.251	0.251	0.100	5.75	20.0	Averaged	
35 1,2-Dichloroethane-d4	0.439	0.456	0.456	0.100	-3.715	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder HS24051535

RunID U060602.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U060602.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 06-JUN-2024 1050
ICAL Date(s) 03-JUN-2024, 05-JUN-2024
ICAL Times 17:24, 22:12
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Benzene	50.0	48.3	0.915	0.500	3.38	20.0	Linear	
Trichloroethene	0.249	0.227	0.227	0.200	8.92	20.0	Averaged	
Bromodichloromethane	0.297	0.276	0.276	0.200	6.85	20.0	Averaged	
Methyl Methacrylate	50.0	43.7	0.132	0.100	12.7	20.0	Linear	
2-Chloroethylvinyl ether	100	86.7	0.052	0.001	13.3	20.0	Quadratic	
1,2-Dichloropropane	50.0	47.6	0.252	0.100	4.79	20.0	Linear	
2-Nitropropane	0.072	0.073	0.073	0.000	-1.181	20.0	Averaged	
Dibromomethane	50.0	48.9	0.150	0.100	2.10	20.0	Linear	
4-Methyl-2-Pentanone	100	87.9	0.266	0.100	12.1	20.0	Linear	
cis-1,3-Dichloropropene	50.0	44.6	0.343	0.200	10.8	20.0	Linear	
48 Toluene-d8	1.00	1.11	1.11	0.100	-10.752	20.0	Averaged	
Ethyl Methacrylate	0.323	0.288	0.288	0.100	11.0	20.0	Averaged	
Toluene	1.12	1.04	1.04	0.400	6.48	20.0	Averaged	
trans-1,3-Dichloropropene	50.0	43.5	0.278	0.100	13.0	20.0	Linear	
2-Hexanone	100	85.8	0.179	0.100	14.2	20.0	Linear	
1,1,2-Trichloroethane	50.0	48.4	0.206	0.100	3.12	20.0	Linear	
1,3-Dichloropropane	50.0	48.7	0.445	0.100	2.64	20.0	Linear	
Dibromochloromethane	50.0	46.0	0.242	0.100	7.97	20.0	Linear	
Tetrachloroethene	0.217	0.203	0.203	0.200	6.29	20.0	Averaged	
1,2-Dibromoethane	50.0	47.2	0.237	0.100	5.51	20.0	Linear	
1-Chlorohexane	50.0	44.5	0.188	0.100	11.0	20.0	Linear	
Chlorobenzene	50.0	48.7	0.678	0.500	2.52	20.0	Linear	
1,1,1,2-Tetrachloroethane	0.242	0.233	0.233	0.100	3.48	20.0	Averaged	
Ethylbenzene	0.356	0.339	0.339	0.100	4.90	20.0	Averaged	
m,p-Xylenes	0.443	0.435	0.435	0.100	1.76	20.0	Averaged	
o-Xylene	0.429	0.431	0.431	0.300	-0.484	20.0	Averaged	
Styrene	0.693	0.717	0.717	0.300	-3.377	20.0	Averaged	
Bromoform	50.0	41.8	0.139	0.100	16.3	20.0	Linear	
Isopropylbenzene	1.02	1.05	1.05	0.100	-3.311	20.0	Averaged	
1,1,2,2-Tetrachloroethane	50.0	48.6	0.645	0.300	2.90	20.0	Linear	
69 4-Bromofluorobenzene	0.363	0.416	0.416	0.100	-14.387	20.0	Averaged	
1,2,3-Trichloropropane	50.0	45.8	0.623	0.100	8.35	20.0	Linear	
trans-1,4-Dichloro-2-butene	50.0	44.1	0.068	0.050	11.8	20.0	Linear	
n-Propylbenzene	2.27	2.32	2.32	0.100	-2.196	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder HS24051535

RunID U060602.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U060602.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 06-JUN-2024 1050
ICAL Date(s) 03-JUN-2024, 05-JUN-2024
ICAL Times 17:24, 22:12
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Bromobenzene	50.0	48.4	0.549	0.100	3.25	20.0	Linear	
1,3,5-Trimethylbenzene	1.50	1.59	1.59	0.100	-6.308	20.0	Averaged	
2-Chlorotoluene	1.47	1.41	1.41	0.100	4.04	20.0	Averaged	
4-Chlorotoluene	1.70	1.64	1.64	0.100	3.46	20.0	Averaged	
tert-Butylbenzene	1.37	1.38	1.38	0.100	-0.866	20.0	Averaged	
1,2,4-Trimethylbenzene	1.55	1.61	1.61	0.100	-3.987	20.0	Averaged	
sec-Butylbenzene	1.81	1.89	1.89	0.100	-4.711	20.0	Averaged	
p-Isopropyltoluene	1.54	1.65	1.65	0.100	-7.420	20.0	Averaged	
1,3-Dichlorobenzene	1.05	0.964	0.964	0.600	8.37	20.0	Averaged	
1,4-Dichlorobenzene	50.0	48.9	1.02	0.400	2.21	20.0	Linear	
Benzyl Chloride	50.0	46.3	0.294	0.010	7.30	20.0	Quadratic	
n-Butylbenzene	50.0	47.1	1.45	0.500	5.82	20.0	Linear	
1,2-Dichlorobenzene	50.0	49.1	0.968	0.400	1.85	20.0	Linear	
1,2-Dibromo-3-Chloropropane	50.0	44.6	0.072	0.050	10.8	20.0	Quadratic	
1,2,4-Trichlorobenzene	50.0	47.0	0.621	0.200	5.96	20.0	Linear	
Hexachlorobutadiene	0.286	0.279	0.279	0.100	2.44	20.0	Averaged	
Naphthalene	50.0	45.1	1.41	0.200	9.87	20.0	Linear	
1,2,3-Trichlorobenzene	0.576	0.549	0.549	0.100	4.74	20.0	Averaged	
Methyl Acetate	50.0	48.6	0.351	0.100	2.74	20.0	Linear	
Freon TF	0.246	0.250	0.250	0.100	-1.753	20.0	Averaged	
Cyclohexane	50.0	46.9	0.420	0.100	6.23	20.0	Linear	
Tetrahydrofuran	100	85.8	0.055	0.001	14.2	20.0	Linear	
Methylcyclohexane	0.575	0.530	0.530	0.100	7.89	20.0	Averaged	
1,4-Dioxane	1000	915	0.003	0.001	8.50	20.0	Linear	
n-Butanol	1000	823	0.009	0.005	17.7	20.0	Linear	
n-Hexane	50.0	49.8	0.314	0.100	0.459	20.0	Linear	
Diethyl ether	50.0	45.4	0.225	0.100	9.14	20.0	Linear	
Tert-butyl alcohol	1000	849	0.026	0.005	15.1	20.0	Linear	
Isopropyl alcohol	1000	862	0.021	0.005	13.8	20.0	Linear	
Diisopropyl ether	50.0	46.7	1.06	0.100	6.50	20.0	Linear	
Butyl acrylate	0.494	0.420	0.420	0.100	14.8	20.0	Averaged	
Dicyclopentadiene	50.0	46.1	2.19	0.100	7.82	20.0	Linear	
1,2,3-Trimethylbenzene	50.0	47.4	1.49	0.100	5.30	20.0	Linear	
Ethanol	1000	904	0.004	0.001	9.56	20.0	Linear	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder HS24051535

RunID U060602.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U060602.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 06-JUN-2024 1050
ICAL Date(s) 03-JUN-2024, 05-JUN-2024
ICAL Times 17:24, 22:12
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
tert-Butyl formate	100	86.5	0.257	0.100	13.5	20.0	Linear	
4-Methyl-2-pentanol	1000	816	0.062	0.005	18.4	20.0	Linear	
1,3-Butadiene	50.0	48.4	0.161	0.100	3.21	20.0	Linear	
Epichlorohydrin	200	186	0.013	0.001	7.23	20.0	Quadratic	
94 1,2-Dichloroethylene (total	0.372	0.323	0.323	0.200	13.2	20.0	Averaged	
95 Xylenes (total)	0.395	0.394	0.394	0.100	0.370	20.0	Averaged	
alpha-Methylstyrene	0.609	0.627	0.627	0.100	-3.032	20.0	Averaged	
Ethyl Acetate	50.0	50.4	0.135	0.100	-0.760	20.0	Linear	
Methyl Acrylate	50.0	44.0	0.357	0.100	12.0	20.0	Linear	
n-Butyl acetate	0.374	0.331	0.331	0.100	11.6	20.0	Averaged	
Cyclohexanone	1000	870	0.019	0.005	13.0	20.0	Quadratic	
Isoprene	0.084	0.077	0.077	0.010	8.13	20.0	Averaged	
Isopropyl acetate	50.0	46.0	0.657	0.100	7.93	20.0	Quadratic	
Allyl alcohol	1000	995	0.016	0.004	0.459	20.0	Linear	
Acetaldehyde	200	272	0.102	0.001	-35.771	20.0	Linear	*
Dimethyl Disulfide	50.0	47.7	0.142	0.020	4.69	20.0	Quadratic	
Isobutylene	0.164	0.167	0.167	0.010	-1.889	20.0	Averaged	
Ethyl Acrylate	0.845	0.765	0.765	0.100	9.41	20.0	Averaged	
Butyl methacrylate	50.0	49.9	0.515	0.100	0.265	20.0	Quadratic	
Propylene oxide	0.028	0.025	0.025	0.005	11.9	20.0	Averaged	
Ethylene oxide	100	84.9	0.569	0.010	15.1	20.0	Quadratic	
2-Ethylhexyl Acrylate	50.0	47.6	0.508	0.100	4.89	20.0	Quadratic	
Tetrahydrothiophene	0.237	0.219	0.219	0.100	7.41	20.0	Averaged	
sec-Butyl Ether	0.612	0.496	0.496	0.100	19.0	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder HS24051535

RunID U060629.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U060629.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 06-JUN-2024 2037
ICAL Date(s) 03-JUN-2024, 05-JUN-2024
ICAL Times 17:24, 22:12
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Dichlorodifluoromethane	50.0	53.2	0.165	0.100	-6.417	50.0	Linear	
Chloromethane	50.0	54.8	0.630	0.100	-9.699	50.0	Linear	
Propionitrile	500	426	0.041	0.010	14.9	50.0	Linear	
Vinyl Chloride	0.340	0.334	0.334	0.100	1.64	50.0	Averaged	
Bromomethane	50.0	46.1	0.142	0.100	7.78	50.0	Linear	
Chloroethane	50.0	49.1	0.241	0.100	1.72	50.0	Linear	
Trichlorofluoromethane	0.438	0.446	0.446	0.100	-1.817	50.0	Averaged	
Acrolein	100	90.3	0.015	0.010	9.68	50.0	Quadratic	
Acetone	100	77.8	0.105	0.100	22.2	50.0	Linear	
1,1-Dichloroethene	0.287	0.272	0.272	0.100	5.16	50.0	Averaged	
Isobutyl Alcohol	0.053	0.045	0.045	0.005	16.3	50.0	Averaged	
Acetonitrile	500	444	0.037	0.005	11.2	50.0	Linear	
Allyl Chloride	50.0	43.7	0.820	0.100	12.5	50.0	Linear	
Iodomethane	100	118	0.081	0.100	-17.926	50.0	Quadratic	
Acrylonitrile	100	87.3	0.110	0.050	12.7	50.0	Linear	
Methylene Chloride	50.0	48.2	0.333	0.100	3.69	50.0	Linear	
Methyl tert-butyl ether	50.0	43.4	0.740	0.100	13.1	50.0	Linear	
Carbon Disulfide	0.822	0.764	0.764	0.100	7.06	50.0	Averaged	
trans-1,2-Dichloroethene	50.0	47.6	0.292	0.100	4.79	50.0	Linear	
Vinyl Acetate	100	87.7	0.171	0.010	12.3	50.0	Linear	
1,1-Dichloroethane	50.0	48.2	0.580	0.200	3.50	50.0	Linear	
Chloroprene	0.510	0.486	0.486	0.100	4.63	50.0	Averaged	
2-Butanone	100	83.8	0.155	0.100	16.2	50.0	Linear	
Methacrylonitrile	50.0	43.8	0.193	0.100	12.4	50.0	Linear	
2,2-Dichloropropane	0.425	0.380	0.380	0.100	10.8	50.0	Averaged	
cis-1,2-Dichloroethene	50.0	47.3	0.349	0.100	5.36	50.0	Linear	
Chloroform	0.659	0.590	0.590	0.200	10.5	50.0	Averaged	
Bromochloromethane	50.0	48.4	0.174	0.100	3.27	50.0	Linear	
30 Dibromofluoromethane	0.360	0.376	0.376	0.100	-4.441	50.0	Averaged	
1,1,1-Trichloroethane	0.473	0.458	0.458	0.100	3.11	50.0	Averaged	
1,1-Dichloropropene	0.323	0.297	0.297	0.100	7.92	50.0	Averaged	
1,2-Dichloroethane	50.0	47.8	0.330	0.100	4.49	50.0	Linear	
Carbon Tetrachloride	0.266	0.257	0.257	0.100	3.61	50.0	Averaged	
35 1,2-Dichloroethane-d4	0.439	0.462	0.462	0.100	-5.191	50.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder HS24051535

RunID U060629.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U060629.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 06-JUN-2024 2037
ICAL Date(s) 03-JUN-2024, 05-JUN-2024
ICAL Times 17:24, 22:12
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Benzene	50.0	47.9	0.907	0.500	4.23	50.0	Linear	
Trichloroethene	0.249	0.232	0.232	0.200	6.74	50.0	Averaged	
Bromodichloromethane	0.297	0.267	0.267	0.200	10.1	50.0	Averaged	
Methyl Methacrylate	50.0	40.7	0.123	0.100	18.6	50.0	Linear	
2-Chloroethylvinyl ether	100	72.1	0.043	0.001	27.9	50.0	Quadratic	
1,2-Dichloropropane	50.0	46.7	0.248	0.100	6.58	50.0	Linear	
2-Nitropropane	0.072	0.068	0.068	0.000	6.03	50.0	Averaged	
Dibromomethane	50.0	46.6	0.142	0.100	6.86	50.0	Linear	
4-Methyl-2-Pentanone	100	80.5	0.243	0.100	19.5	50.0	Linear	
cis-1,3-Dichloropropene	50.0	42.1	0.323	0.200	15.7	50.0	Linear	
48 Toluene-d8	1.00	1.11	1.11	0.100	-10.750	50.0	Averaged	
Ethyl Methacrylate	0.323	0.265	0.265	0.100	18.2	50.0	Averaged	
Toluene	1.12	1.04	1.04	0.400	6.93	50.0	Averaged	
trans-1,3-Dichloropropene	50.0	41.0	0.261	0.100	17.9	50.0	Linear	
2-Hexanone	100	82.7	0.173	0.100	17.3	50.0	Linear	
1,1,2-Trichloroethane	50.0	46.8	0.199	0.100	6.43	50.0	Linear	
1,3-Dichloropropane	50.0	46.7	0.427	0.100	6.61	50.0	Linear	
Dibromochloromethane	50.0	43.4	0.228	0.100	13.2	50.0	Linear	
Tetrachloroethene	0.217	0.211	0.211	0.200	2.89	50.0	Averaged	
1,2-Dibromoethane	50.0	45.4	0.227	0.100	9.24	50.0	Linear	
1-Chlorohexane	50.0	43.6	0.184	0.100	12.8	50.0	Linear	
Chlorobenzene	50.0	48.2	0.671	0.500	3.56	50.0	Linear	
1,1,1,2-Tetrachloroethane	0.242	0.229	0.229	0.100	5.29	50.0	Averaged	
Ethylbenzene	0.356	0.336	0.336	0.100	5.71	50.0	Averaged	
m,p-Xylenes	0.443	0.432	0.432	0.100	2.55	50.0	Averaged	
o-Xylene	0.429	0.424	0.424	0.300	1.18	50.0	Averaged	
Styrene	0.693	0.684	0.684	0.300	1.37	50.0	Averaged	
Bromoform	50.0	39.3	0.130	0.100	21.4	50.0	Linear	
Isopropylbenzene	1.02	1.06	1.06	0.100	-3.772	50.0	Averaged	
1,1,2,2-Tetrachloroethane	50.0	44.1	0.586	0.300	11.9	50.0	Linear	
69 4-Bromofluorobenzene	0.363	0.410	0.410	0.100	-12.870	50.0	Averaged	
1,2,3-Trichloropropane	50.0	41.1	0.557	0.100	17.8	50.0	Linear	
trans-1,4-Dichloro-2-butene	50.0	40.1	0.062	0.050	19.8	50.0	Linear	
n-Propylbenzene	2.27	2.21	2.21	0.100	2.69	50.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder HS24051535

RunID U060629.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U060629.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 06-JUN-2024 2037
ICAL Date(s) 03-JUN-2024, 05-JUN-2024
ICAL Times 17:24, 22:12
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Bromobenzene	50.0	46.5	0.527	0.100	7.02	50.0	Linear	
1,3,5-Trimethylbenzene	1.50	1.54	1.54	0.100	-2.663	50.0	Averaged	
2-Chlorotoluene	1.47	1.37	1.37	0.100	7.16	50.0	Averaged	
4-Chlorotoluene	1.70	1.59	1.59	0.100	6.24	50.0	Averaged	
tert-Butylbenzene	1.37	1.37	1.37	0.100	0.172	50.0	Averaged	
1,2,4-Trimethylbenzene	1.55	1.50	1.50	0.100	3.24	50.0	Averaged	
sec-Butylbenzene	1.81	1.85	1.85	0.100	-2.563	50.0	Averaged	
p-Isopropyltoluene	1.54	1.57	1.57	0.100	-2.086	50.0	Averaged	
1,3-Dichlorobenzene	1.05	0.925	0.925	0.600	12.0	50.0	Averaged	
1,4-Dichlorobenzene	50.0	46.9	0.978	0.400	6.18	50.0	Linear	
Benzyl Chloride	50.0	35.0	0.217	0.010	30.1	50.0	Quadratic	
n-Butylbenzene	50.0	45.0	1.38	0.500	10.0	50.0	Linear	
1,2-Dichlorobenzene	50.0	46.6	0.919	0.400	6.84	50.0	Linear	
1,2-Dibromo-3-Chloropropane	50.0	40.9	0.066	0.050	18.1	50.0	Quadratic	
1,2,4-Trichlorobenzene	50.0	43.1	0.568	0.200	13.8	50.0	Linear	
Hexachlorobutadiene	0.286	0.269	0.269	0.100	6.00	50.0	Averaged	
Naphthalene	50.0	40.9	1.28	0.200	18.2	50.0	Linear	
1,2,3-Trichlorobenzene	0.576	0.512	0.512	0.100	11.1	50.0	Averaged	
Methyl Acetate	50.0	46.9	0.339	0.100	6.28	50.0	Linear	
Freon TF	0.246	0.253	0.253	0.100	-3.103	50.0	Averaged	
Cyclohexane	50.0	48.2	0.432	0.100	3.64	50.0	Linear	
Tetrahydrofuran	100	84.3	0.054	0.001	15.7	50.0	Linear	
Methylcyclohexane	0.575	0.500	0.500	0.100	13.1	50.0	Averaged	
1,4-Dioxane	1000	837	0.003	0.001	16.3	50.0	Linear	
n-Butanol	1000	737	0.008	0.005	26.3	50.0	Linear	
n-Hexane	50.0	49.3	0.310	0.100	1.42	50.0	Linear	
Diethyl ether	50.0	44.0	0.218	0.100	12.0	50.0	Linear	
Tert-butyl alcohol	1000	808	0.025	0.005	19.2	50.0	Linear	
Isopropyl alcohol	1000	801	0.020	0.005	19.9	50.0	Linear	
Diisopropyl ether	50.0	45.9	1.04	0.100	8.19	50.0	Linear	
Butyl acrylate	0.494	0.388	0.388	0.100	21.3	50.0	Averaged	
Dicyclopentadiene	50.0	43.2	2.05	0.100	13.6	50.0	Linear	
1,2,3-Trimethylbenzene	50.0	43.6	1.37	0.100	12.8	50.0	Linear	
Ethanol	1000	844	0.004	0.001	15.6	50.0	Linear	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder HS24051535

RunID U060629.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U060629.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 06-JUN-2024 2037
ICAL Date(s) 03-JUN-2024, 05-JUN-2024
ICAL Times 17:24, 22:12
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
tert-Butyl formate	100	79.4	0.236	0.100	20.6	50.0	Linear	
4-Methyl-2-pentanol	1000	745	0.056	0.005	25.5	50.0	Linear	
1,3-Butadiene	50.0	50.7	0.169	0.100	-1.404	50.0	Linear	
Epichlorohydrin	200	158	0.011	0.001	21.2	50.0	Quadratic	
94 1,2-Dichloroethylene (total	0.372	0.321	0.321	0.200	13.7	50.0	Averaged	
95 Xylenes (total)	0.395	0.390	0.390	0.100	1.36	50.0	Averaged	
alpha-Methylstyrene	0.609	0.578	0.578	0.100	5.11	50.0	Averaged	
Ethyl Acetate	++++	++++	8.246e+60	0.100	++++	50.0	Linear	*
Methyl Acrylate	50.0	41.8	0.338	0.100	16.5	50.0	Linear	
n-Butyl acetate	0.374	++++	8.246e+60	0.100	++++	50.0	Averaged	*
Cyclohexanone	1000	654	0.014	0.005	34.6	50.0	Quadratic	
Isoprene	0.084	0.078	0.078	0.010	6.77	50.0	Averaged	
Isopropyl acetate	50.0	43.1	0.614	0.100	13.8	50.0	Quadratic	
Allyl alcohol	1000	986	0.016	0.004	1.42	50.0	Linear	
Acetaldehyde	200	293	0.110	0.001	-46.484	50.0	Linear	
Dimethyl Disulfide	50.0	43.2	0.126	0.020	13.5	50.0	Quadratic	
Isobutylene	0.164	++++	8.246e+60	0.010	++++	50.0	Averaged	*
Ethyl Acrylate	0.845	0.726	0.726	0.100	14.0	50.0	Averaged	
Butyl methacrylate	50.0	45.8	0.472	0.100	8.32	50.0	Quadratic	
Propylene oxide	0.028	0.022	0.022	0.005	22.6	50.0	Averaged	
Ethylene oxide	++++	++++	8.246e+60	0.010	++++	50.0	Quadratic	*
2-Ethylhexyl Acrylate	50.0	42.2	0.445	0.100	15.6	50.0	Quadratic	
Tetrahydrothiophene	0.237	0.201	0.201	0.100	15.2	50.0	Averaged	
sec-Butyl Ether	0.612	0.276	0.276	0.100	54.9	50.0	Averaged	*

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Form 8

Internal Standard Area and RT Summary

<textMethods>

Workorder

HS24051535

Client

Bhate Environmental Associates, Inc.

Project

LHAAP-58

06/24/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 8 - Internal Standard Area and RT Summary

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051535

EPA SW8260

VOA9_468115		Pentafluorobenzene				1,4 Difluorobenzene				Chlorobenzene d5				1,4-Dichlorobenzene d4			
Sample ID	File ID	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
12-HOUR STD (CCV)	U053002.D	259371	#	4.81	#	379636	#	5.55	#	342949	#	8.18	#	180202	#	10.17	#
HS24051535-01	U053013.D	240383		4.81		355215		5.55		322939		8.18		160572		10.17	
HS24051535-02	U053014.D	240443		4.82		355484		5.55		322722		8.18		164340		10.17	
HS24051535-03	U053019.D	211103		4.82		312730		5.55		283254		8.19		138434		10.17	
HS24051535-04	U053015.D	240427		4.82		356484		5.55		327506		8.18		165677		10.17	
HS24051535-05	U053016.D	237184		4.82		354253		5.55		320808		8.18		163434		10.17	
HS24051535-06	U053017.D	237384		4.82		352355		5.55		320458		8.18		161453		10.17	
HS24051535-07	U053018.D	236991		4.81		353152		5.55		321914		8.18		162327		10.17	
HS24051535-08	U053008.D	241519		4.82		357067		5.55		319223		8.19		161439		10.17	
VBLKW-240530	U053006.D	256457		4.81		374060		5.55		336108		8.18		171697		10.17	
VLCSW-240530	U053003.D	257871		4.82		373397		5.55		335824		8.19		176600		10.17	
MS-ZZZZZZMS	U053027.D	246570		4.82		355589		5.55		324527		8.18		178280		10.17	
ZZZZZZMSD	U053028.D	245361		4.81		359383		5.55		326281		8.18		178102		10.17	

AREA UPPER LIMIT = +100% of STD IS Area
AREA LOWER LIMIT = - 50% of STD IS Area
RT - Retention IS - Internal StandardTime

RT UPPER LIMIT = + 0.50 of STD IS RT
RT LOWER LIMIT = - 0.50 of STD IS RT
CCV - Continuing Calibration Verification

- Area or RT Limit Flag
* - Value Outside Area or RT limits
H - Hour STD - Standard

Form 8 - Internal Standard Area and RT Summary

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051535

EPA SW8260

VOA9_468713		Pentafluorobenzene				1,4 Difluorobenzene				Chlorobenzene d5				1,4-Dichlorobenzene d4			
Sample ID	File ID	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
12-HOUR STD (CCV)	U060602.D	236447	#	4.81	#	341467	#	5.55	#	310220	#	8.18	#	166510	#	10.17	#
HS24051535-03	U060610.D	238508		4.81		350016		5.55		318272		8.18		161314		10.17	
VBLKW-240606	U060606.D	235132		4.82		345676		5.55		308803		8.19		156761		10.17	
VLCSDW-240606	U060604.D	244305		4.82		356428		5.55		318679		8.18		169379		10.17	
VLCSW-240606	U060603.D	236067		4.81		346656		5.55		315190		8.18		164829		10.17	
MS-ZZZZZZMS	U060608.D	241452		4.81		356892		5.55		322426		8.18		170439		10.17	
ZZZZZZMSD	U060609.D	239403		4.82		349170		5.55		315580		8.19		169818		10.17	

AREA UPPER LIMIT = +100% of STD IS Area
AREA LOWER LIMIT = - 50% of STD IS Area
RT - Retention IS - Internal StandardTime

RT UPPER LIMIT = + 0.50 of STD IS RT
RT LOWER LIMIT = - 0.50 of STD IS RT
CCV - Continuing Calibration Verification

- Area or RT Limit Flag
* - Value Outside Area or RT limits
H - Hour STD - Standard

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Analysis Run Log

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24051535

Client

Bhate Environmental Associates, Inc.

Project

LHAAP-58

06/24/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder
HS24051535

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID
VOA9-467989

Run ID VOA9_467989 **Start Date** 05/29/24 **EndDate** 05/29/24

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
10:39	VSTD00.25	ICAL1	VSTD00.25	U052902.D	05/29/24	1
11:00	VSTD00.5	ICAL2	VSTD00.5	U052903.D	05/29/24	1
11:22	VSTD001	ICAL3	VSTD001	U052904.D	05/29/24	1
11:43	VSTD002	ICAL4	VSTD002	U052905.D	05/29/24	1
12:05	VSTD005	ICAL5	VSTD005	U052906.D	05/29/24	1
12:26	VSTD020	ICAL6	VSTD020	U052907.D	05/29/24	1
12:48	VSTD050	ICAL7	VSTD050	U052908.D	05/29/24	1
13:10	VSTD100	ICAL8	VSTD100	U052909.D	05/29/24	1
13:31	VSTD150	ICAL9	VSTD150	U052910.D	05/29/24	1
13:53	VSTD200	ICAL	VSTD200	U052911.D	05/29/24	1
14:58	VSTD050	ICV	VSTD050	U052914.D	05/29/24	1

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder **HS24051535**

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-468115

Run ID VOA9_468115 **Start Date** 05/30/24 **EndDate** 05/31/24

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
14:58	VSTD050	CCV	VSTD050	U053002.D	05/30/24	1
15:19	VLCSW-240530	LCS	VLCSW-240530	U053003.D	05/30/24	1
16:25	VBLKW-240530	MBLK	VBLKW-240530	U053006.D	05/30/24	1
17:08	HS24051535-08	SAMP	Trip Blank	U053008.D	05/30/24	1
17:29	HS24051490-08	SAMP	ZZZZZZZZZZ	U053009.D	05/30/24	1
17:51	HS24051490-01	SAMP	ZZZZZZZZZZ	U053010.D	05/30/24	1
18:12	HS24051490-06	SAMP	ZZZZZZZZZZ	U053011.D	05/30/24	1
18:34	HS24051490-07	SAMP	ZZZZZZZZZZ	U053012.D	05/30/24	1
18:56	HS24051535-01	SAMP	35AWW19_052324	U053013.D	05/30/24	1
19:17	HS24051535-02	SAMP	LHSMW07_052324	U053014.D	05/30/24	1
19:39	HS24051535-04	SAMP	35AWW11_052324	U053015.D	05/30/24	1
20:00	HS24051535-05	SAMP	35AWW23_052324	U053016.D	05/30/24	1
20:22	HS24051535-06	SAMP	35AWW06_052324	U053017.D	05/30/24	1
20:43	HS24051535-07	SAMP	35AWW18_052324	U053018.D	05/30/24	1
21:07	HS24051535-03	SAMP	35AWW20_052324	U053019.D	05/30/24	5
22:57	HS24051490-02	SAMP	ZZZZZZZZZZ	U053024.D	05/30/24	10
23:21	HS24051490-04	SAMP	ZZZZZZZZZZ	U053025.D	05/30/24	10
23:43	HS24051490-05	SAMP	ZZZZZZZZZZ	U053026.D	05/30/24	10
00:04	HS24051490-05MS	MS	ZZZZZZMS	U053027.D	05/31/24	10
00:26	HS24051490-05MSD	MSD	ZZZZZZMSD	U053028.D	05/31/24	10
00:47	CCV	CCV_END	CCV	U053029.D	05/31/24	1

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder **HS24051535**

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-468644

Run ID VOA9_468644 **Start Date** 06/05/24 **EndDate** 06/05/24

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
18:58	VSTD00.25	ICAL1	VSTD00.25	W060502.D	06/05/24	1
19:20	VSTD00.5	ICAL2	VSTD00.5	W060503.D	06/05/24	1
19:41	VSTD001	ICAL3	VSTD001	W060504.D	06/05/24	1
20:03	VSTD002	ICAL4	VSTD002	W060505.D	06/05/24	1
20:24	VSTD005	ICAL5	VSTD005	W060506.D	06/05/24	1
20:46	VSTD020	ICAL6	VSTD020	W060507.D	06/05/24	1
21:07	VSTD050	ICAL7	VSTD050	W060508.D	06/05/24	1
21:29	VSTD100	ICAL8	VSTD100	W060509.D	06/05/24	1
21:50	VSTD150	ICAL9	VSTD150	W060510.D	06/05/24	1
22:12	VSTD200	ICAL	VSTD200	W060511.D	06/05/24	1
23:38	VSTD050	ICV	VSTD050	W060514A.D	06/05/24	1

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder **HS24051535**

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-468713

Run ID VOA9_468713 Start Date 06/06/24 EndDate 06/06/24

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
10:50	VSTD050	CCV	VSTD050	U060602.D	06/06/24	1
11:12	VLCSW-240606	LCS	VLCSW-240606	U060603.D	06/06/24	1
11:33	VLCSDW-240606	LCSD	VLCSDW-240606	U060604.D	06/06/24	1
12:16	VBLKW-240606	MBLK	VBLKW-240606	U060606.D	06/06/24	1
12:37	HS24051959-07	SAMP	ZZZZZZZZZZ	U060607.D	06/06/24	1
12:59	HS24051959-07MS	MS	ZZZZZZMS	U060608.D	06/06/24	1
13:20	HS24051959-07MSD	MSD	ZZZZZZMSD	U060609.D	06/06/24	1
13:44	HS24051535-03	SAMP	35AWW20_052324	U060610.D	06/06/24	25
14:27	HS24052045-06	SAMP	ZZZZZZZZZZ	U060612.D	06/06/24	1
14:49	HS24051959-18	SAMP	ZZZZZZZZZZ	U060613.D	06/06/24	1
15:11	HS24051959-01	SAMP	ZZZZZZZZZZ	U060614.D	06/06/24	1
15:32	HS24051959-02	SAMP	ZZZZZZZZZZ	U060615.D	06/06/24	1
15:54	HS24051959-03	SAMP	ZZZZZZZZZZ	U060616.D	06/06/24	1
16:15	HS24051959-04	SAMP	ZZZZZZZZZZ	U060617.D	06/06/24	1
16:39	HS24051959-05	SAMP	ZZZZZZZZZZ	U060618.D	06/06/24	5
17:03	HS24051959-06	SAMP	ZZZZZZZZZZ	U060619.D	06/06/24	5
17:24	HS24051959-08	SAMP	ZZZZZZZZZZ	U060620.D	06/06/24	1
17:46	HS24051959-09	SAMP	ZZZZZZZZZZ	U060621.D	06/06/24	1
18:07	HS24051959-10	SAMP	ZZZZZZZZZZ	U060622.D	06/06/24	1
18:29	HS24051959-11	SAMP	ZZZZZZZZZZ	U060623.D	06/06/24	1
18:50	HS24051959-12	SAMP	ZZZZZZZZZZ	U060624.D	06/06/24	1
19:12	HS24051959-13	SAMP	ZZZZZZZZZZ	U060625.D	06/06/24	1
19:33	HS24051959-15	SAMP	ZZZZZZZZZZ	U060626.D	06/06/24	1
19:54	HS24051959-16	SAMP	ZZZZZZZZZZ	U060627.D	06/06/24	1
20:16	HS24051959-17	SAMP	ZZZZZZZZZZ	U060628.D	06/06/24	1
20:37	VSTD050	CCV_END	VSTD050	U060629.D	06/06/24	1

right solutions.
right partner.

RawData

<textMethods>

Workorder

HS24051535

Client

Bhate Environmental Associates, Inc.

Project

LHAAP-58

06/24/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052901.D Page 1
Report Date: 07-Jun-2024 10:54

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052901.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 29-MAY-2024 10:17
Operator : FT Inst ID: VOA9.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V9;WATER;0;1;
Comment :
Method : \\nahstws005\Target\chem\voa9.i\U240529.b\bfb.m
Meth Date : 27-Jan-2023 08:08 apoluri Quant Type: ISTD
Cal Date : 22-MAY-2024 23:36 Cal File: V052211.D
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	2.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/l)	TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
0.000	9.180 (0.000)		95	100952			0.00- 100.00	100.00
0.000	9.180 (0.000)		50	17456			15.00- 40.00	17.29
0.000	9.180 (0.000)		75	47384			30.00- 60.00	46.94
0.000	9.180 (0.000)		96	6990			5.00- 9.00	6.92
0.000	9.180 (0.000)		173	0	0.0	0.0	0.00- 2.00	0.00
0.000	9.180 (0.000)		174	94448			50.00- 0.00	93.56
0.000	9.180 (0.000)		175	7851			5.00- 9.00	8.31
0.000	9.180 (0.000)		176	91680			95.00- 101.00	97.07
0.000	9.180 (0.000)		177	6078			5.00- 9.00	6.63

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.29
75	30.00 - 60.00% of mass 95	46.94
96	5.00 - 9.00% of mass 95	6.92
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	93.56
175	5.00 - 9.00% of mass 174	7.78 (8.31)
176	95.00 - 101.00% of mass 174	90.82 (97.07)
177	5.00 - 9.00% of mass 176	6.02 (6.63)

Data File: U052901.D
Spectrum: HP ChemStation MS U052901.D, Scan 2295: 9.194 min.
Location of Maximum: 95.05
Number of points: 95

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	859	62.00	4363	92.00	2598	129.90	296
37.10	4380	63.00	3206	93.00	4116	130.90	118
38.00	3865	64.00	324	94.00	11601	134.80	152
39.00	1630	65.00	168	95.00	100952	136.80	155
39.90	200	68.00	9629	96.00	6990	140.00	118
40.90	127	69.00	9346	97.00	240	140.90	875
41.90	88	70.00	818	103.80	421	142.90	956
43.00	185	71.20	149	104.90	235	143.80	67
43.90	647	72.00	527	105.90	374	145.00	97
45.00	856	73.00	3880	107.00	81	145.80	148
46.00	113	74.00	16029	109.90	57	147.90	206
47.10	1333	75.00	47384	110.80	79	148.90	76
48.00	656	76.00	4374	111.80	67	152.90	111
49.00	3818	76.90	655	114.90	110	154.80	253
50.00	17456	78.00	457	115.80	297	156.80	196
51.00	5468	78.90	2299	116.90	575	158.90	96
52.00	295	80.00	687	117.90	300	160.80	160
52.90	56	80.90	2360	118.90	421	172.00	351
55.00	281	81.90	475	119.80	65	173.90	94448
56.00	1246	82.90	54	120.10	63	175.00	7851
57.00	2728	85.80	133	123.70	60	175.90	91680
58.10	101	87.00	4708	127.10	51	176.90	6078
60.10	915	88.00	4557	127.90	391	177.90	182
61.00	4230	90.90	394	128.80	198		

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052901.D Page 1

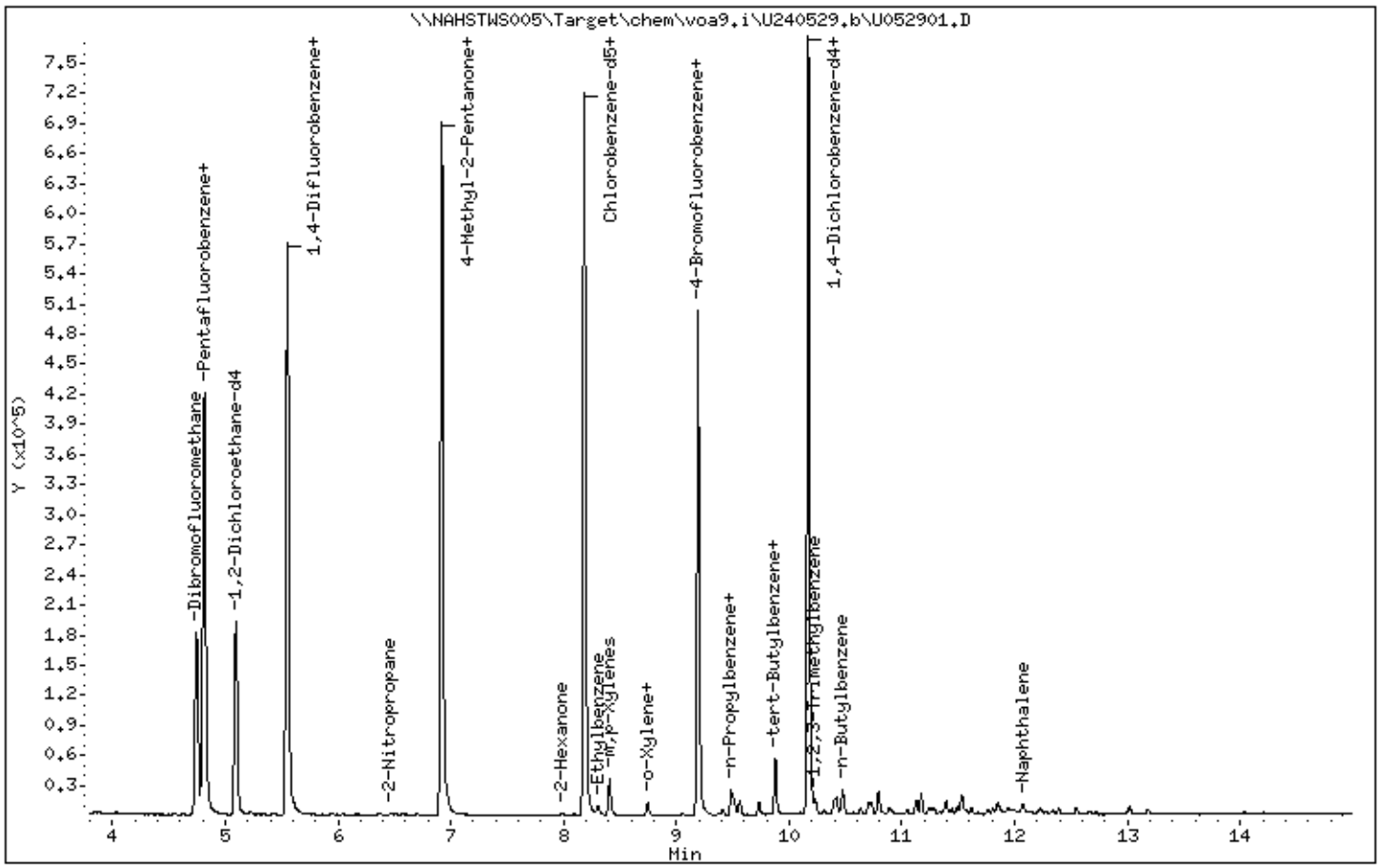
Date : 29-MAY-2024 10:17

Client ID: BFB Instrument: VOA9.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: FT

Column phase: DB624 Column diameter: 0.25



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052901.D Page 2

Date : 29-MAY-2024 10:17

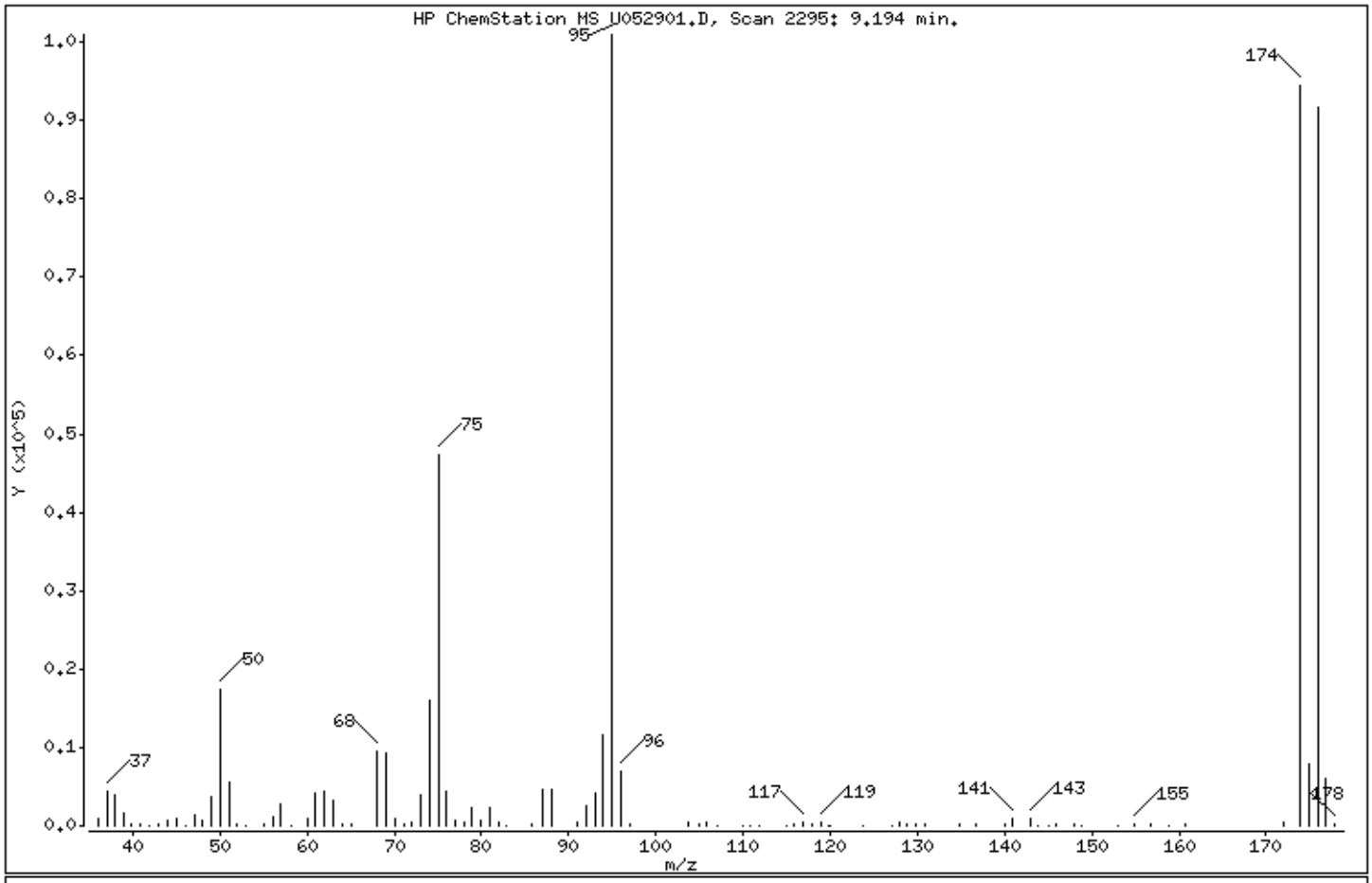
Client ID: BFB Instrument: VOA9.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: FT

Column phase: DB624 Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.29
75	30.00 - 60.00% of mass 95	46.94
96	5.00 - 9.00% of mass 95	6.92
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	93.56
175	5.00 - 9.00% of mass 174	7.78 (8.31)
176	95.00 - 101.00% of mass 174	90.82 (97.07)
177	5.00 - 9.00% of mass 176	6.02 (6.63)

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052901.D Page 3

Date : 29-MAY-2024 10:17

Client ID: BFB Instrument: VOA9.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: FT

Column phase: DB624 Column diameter: 0.25

Data File: U052901.D
Spectrum: HP ChemStation MS U052901.D, Scan 2295: 9.194 min.
Location of Maximum: 95.05
Number of points: 95

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	859	62.00	4363	92.00	2598	129.90	296
37.10	4380	63.00	3206	93.00	4116	130.90	118
38.00	3865	64.00	324	94.00	11601	134.80	152
39.00	1630	65.00	168	95.00	100952	136.80	155
39.90	200	68.00	9629	96.00	6990	140.00	118
40.90	127	69.00	9346	97.00	240	140.90	875
41.90	88	70.00	818	103.80	421	142.90	956
43.00	185	71.20	149	104.90	235	143.80	67
43.90	647	72.00	527	105.90	374	145.00	97
45.00	856	73.00	3880	107.00	81	145.80	148
46.00	113	74.00	16029	109.90	57	147.90	206
47.10	1333	75.00	47384	110.80	79	148.90	76
48.00	656	76.00	4374	111.80	67	152.90	111
49.00	3818	76.90	655	114.90	110	154.80	253
50.00	17456	78.00	457	115.80	297	156.80	196
51.00	5468	78.90	2299	116.90	575	158.90	96
52.00	295	80.00	687	117.90	300	160.80	160
52.90	56	80.90	2360	118.90	421	172.00	351
55.00	281	81.90	475	119.80	65	173.90	94448
56.00	1246	82.90	54	120.10	63	175.00	7851
57.00	2728	85.80	133	123.70	60	175.90	91680
58.10	101	87.00	4708	127.10	51	176.90	6078
60.10	915	88.00	4557	127.90	391	177.90	182
61.00	4230	90.90	394	128.80	198		

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052902.D Page 1
Report Date: 07-Jun-2024 10:54

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052902.D
Lab Smp Id: VSTD00.25 Client Smp ID: VSTD00.25
Inj Date : 29-MAY-2024 10:39
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD00.25;VSTD00.25;1;1
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240529.b\8260C.m
Meth Date : 07-Jun-2024 10:14 r.patel Quant Type: ISTD
Cal Date : 29-MAY-2024 10:39 Cal File: U052902.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Pentafluorobenzene	168	4.812	4.811	(1.000)	302933	50.0000	
	2 Dichlorodifluoromethane	85	1.007	1.156	(0.209)	11048	0.25000	9.78
	3 Chloromethane	50	1.295	1.288	(0.269)	4781	0.25000	0.47(a)
	4 Propionitrile	54	4.343	4.339	(0.903)	1009	2.50000	(aM)
	7 Chloroethane	64	1.595	1.681	(0.332)	1923	0.25000	0.91
	14 Allyl Chloride	41	2.671	2.667	(0.555)	1847	0.25000	0.07(a)
$	30 Dibromofluoromethane	113	4.744	4.744	(0.986)	1289	0.25000	0.14(a)
	33 1,2-Dichloroethane	62	4.812	5.171	(0.867)	963	0.25000	0.89
	34 Carbon Tetrachloride	117	4.812	4.905	(0.867)	25016	0.25000	10.04
$	35 1,2-Dichloroethane-d4	65	5.096	5.093	(1.059)	1656	50.0000	1.13(T)
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	438860	50.0000	
	37 Benzene	78	5.141	5.134	(0.926)	1569	0.25000	0.15(Ta)
	42 1,2-Dichloropropane	63	5.550	6.007	(1.000)	86620	0.25000	31.77
*	47 Chlorobenzene-d5	117	8.182	8.185	(1.000)	397688	50.0000	
$	48 Toluene-d8	98	6.922	6.918	(0.846)	8167	50.0000	1.27(a)
	49 Ethyl Methacrylate	69	7.293	7.289	(1.314)	704	0.25000	0.20(a)
	50 Toluene	91	6.982	6.978	(0.853)	3174	0.25000	0.29(a)
	52 2-Hexanone	43	7.222	7.589	(0.883)	1373	0.50000	2.46(Ta)
	58 1-Chlorohexane	55	8.182	8.196	(1.474)	3664	0.25000	1.00(a)
	61 Ethylbenzene	106	8.305	8.305	(1.015)	1485	0.25000	0.43(a)
	62 m,p-Xylenes	106	8.410	8.406	(1.028)	9262	0.50000	1.33(a)

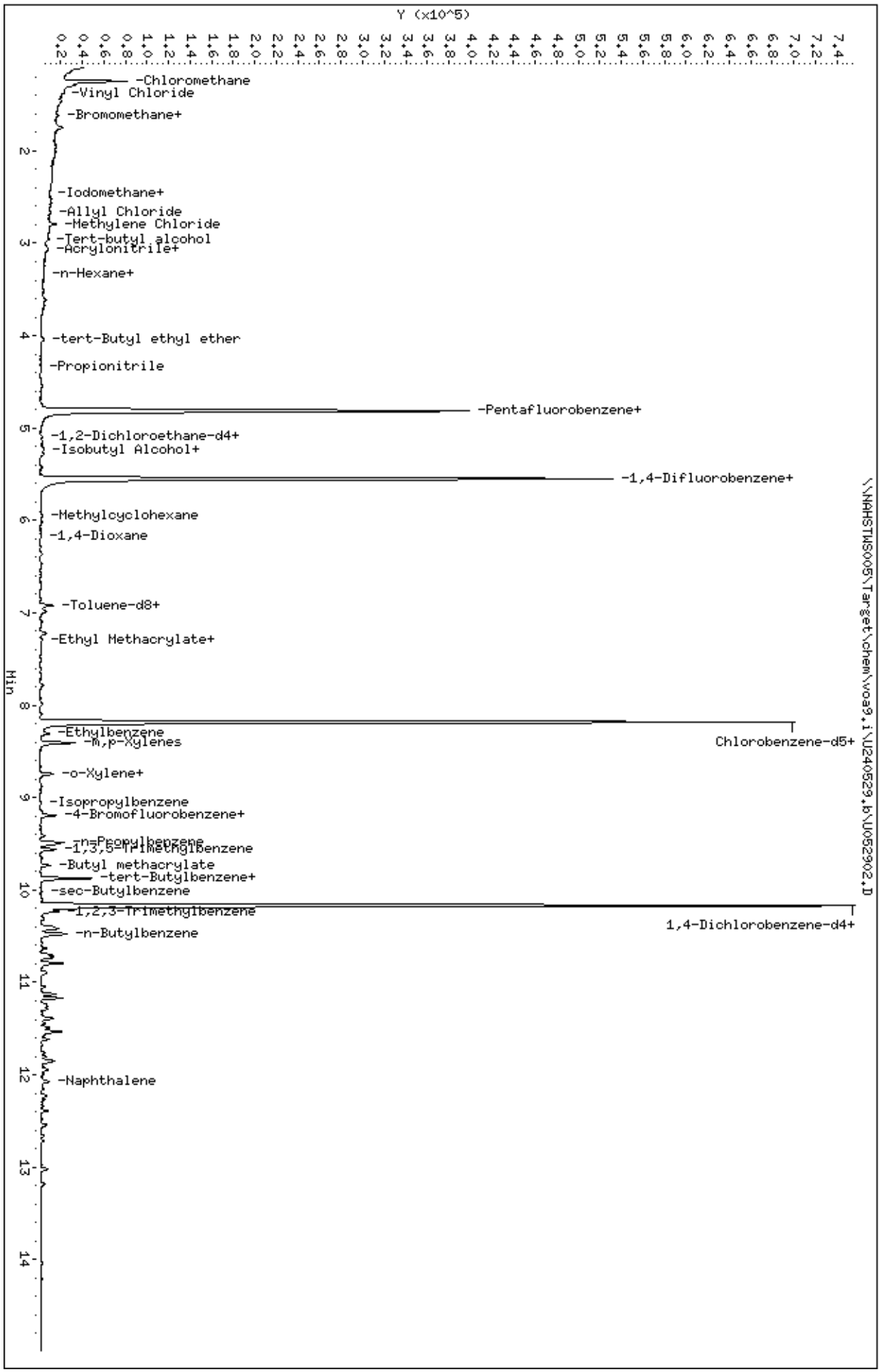
63 o-Xylene	106	8.748	8.744 (1.069)	2937	0.25000	1.50(a)
67 Isopropylbenzene	105	9.063	9.059 (1.108)	1050	0.25000	0.11(a)

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052902.D Page 2
Report Date: 07-Jun-2024 10:54

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
$	69 4-Bromofluorobenzene	95	9.194	9.190	(1.124)	4388	50.0000	1.49(a)
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	205109	50.0000	
	71 1,2,3-Trichloropropane	75	9.194	9.362	(0.904)	1951	0.25000	0.61(a)
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	3314	0.25000	0.29(a)
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	6919	0.25000	0.63(a)
	78 tert-Butylbenzene	119	9.876	9.835	(0.971)	3306	0.25000	0.53(Ta)
	79 1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	25827	0.25000	1.62(a)
	81 sec-Butylbenzene	105	10.022	10.022	(0.986)	1089	0.25000	0.12(a)
	82 p-Isopropyltoluene	119	10.146	10.146	(0.998)	824	0.25000	0.11(a)
	83 1,3-Dichlorobenzene	146	10.187	10.116	(1.002)	622	0.25000	0.13(a)
	84 1,4-Dichlorobenzene	146	10.187	10.191	(1.002)	622	0.25000	0.11(a)
	87 n-Butylbenzene	91	10.487	10.491	(1.031)	4447	0.25000	0.91(a)
	88 1,2-Dichlorobenzene	146	10.187	10.502	(1.002)	622	0.25000	0.12(a)
	92 Naphthalene	128	12.073	12.065	(1.187)	6014	0.25000	0.61(a)
	141 Cyclohexane	56	4.812	4.778	(1.000)	6248	0.25000	0.98(a)
	147 Methylcyclohexane	55	5.951	5.944	(1.072)	1332	0.25000	0.82(a)
	136 n-Hexane	57	3.338	3.331	(0.694)	736	0.25000	0.98(Ta)
	149 Isopropyl alcohol	45	2.559	2.570	(0.532)	1179	5.00000	(Ta)
	166 1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	7421	0.25000	1.76(a)
	172 tert-Butyl formate	59	5.243	5.250	(1.090)	1385	0.50000	0.57(a)
	174 tert-Amyl methyl ether	73	5.284	5.284	(1.098)	2132	0.25000	0.30(Ta)
	175 tert-Butyl ethyl ether	59	4.047	4.047	(0.841)	2148	0.25000	0.31(a)
	176 tert-Amyl alcohol	59	5.243	5.250	(1.090)	1385	5.00000	5.72
	151 4-Methyl-2-pentanol	45	7.218	7.222	(1.301)	3155	5.00000	16.93
	150 Allyl alcohol	57	3.338	3.331	(0.694)	736	5.00000	19.72

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052902.D
Date : 29-MAY-2024 10:39
Client ID: VSTD00.25
Sample Info: VSTD00.25;VSTD00.25;1;1
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: FT
Column diameter: 0.18

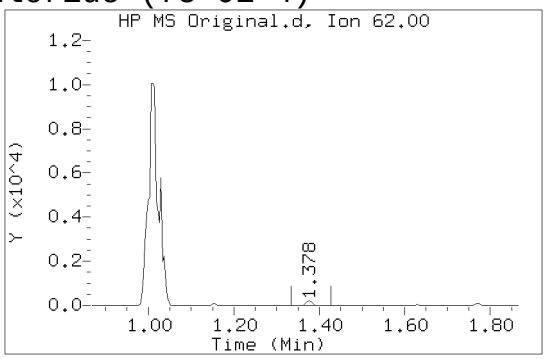
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Inj Date : 29-MAY-2024 10:39
InstruID : VOA9.i
LabSampID : VSTD00.25

Vinyl Chloride (75-01-4)

Reason Code:

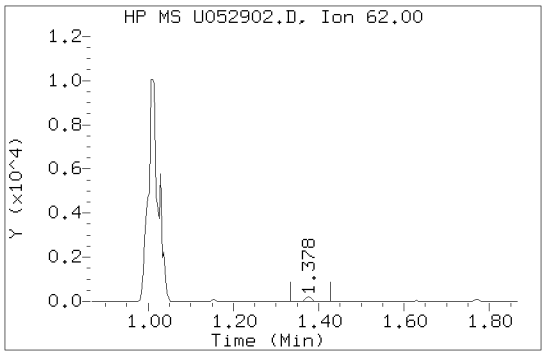
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194
HEIGHT
203
06-Jun-2024
17:10
s
zaid



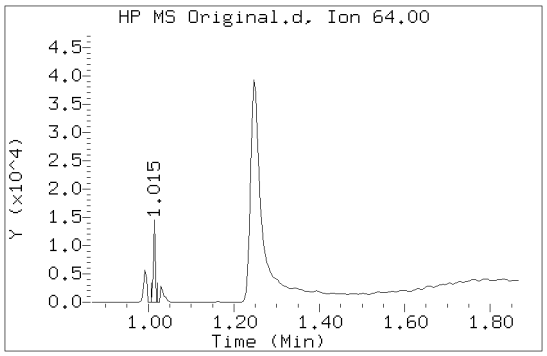
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HEIGHT
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10:36



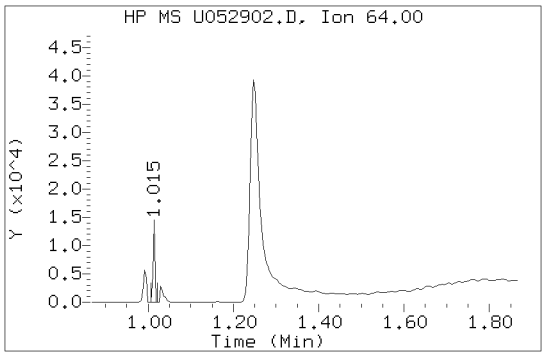
BEFORE

MASS
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AREA
4340
HEIGHT
14499
06-Jun-2024
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s
zaid



AFTER

MASS
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AREA
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HEIGHT
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07-Jun-2024
10:36

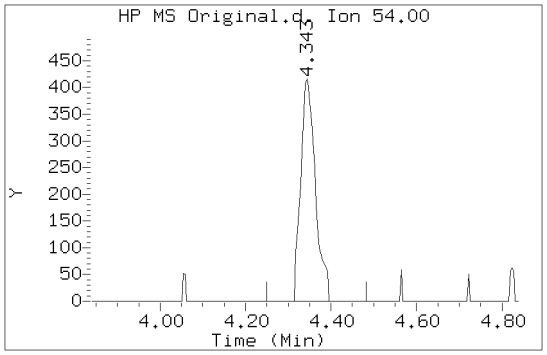


Propionitrile (107-12-0)

Reason Code:

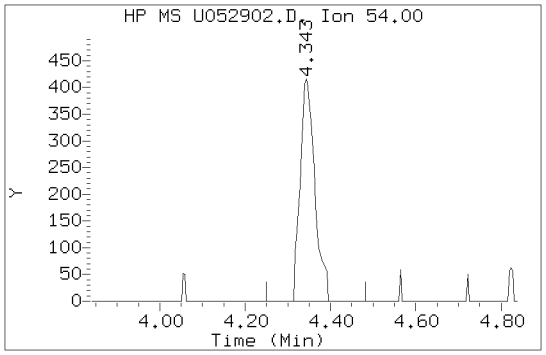
BEFORE

MASS
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HEIGHT
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06-Jun-2024
17:10
s
zaid



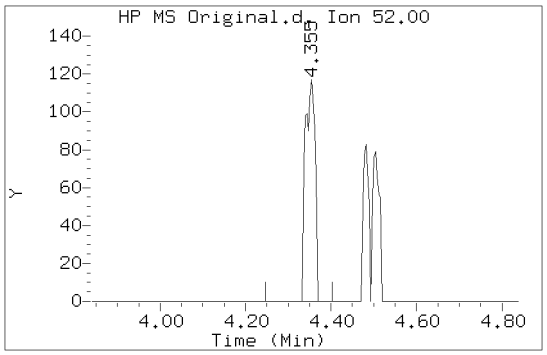
AFTER

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1009
HEIGHT
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07-Jun-2024
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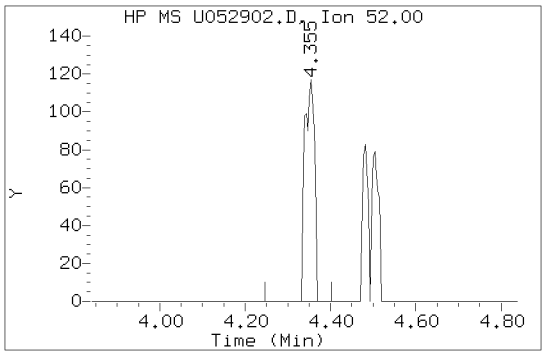
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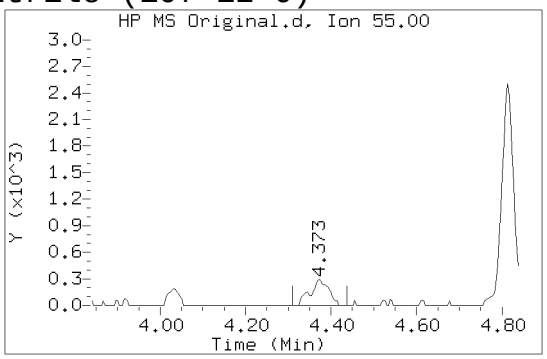
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LabSampID : VSTD00.25

Propionitrile (107-12-0)

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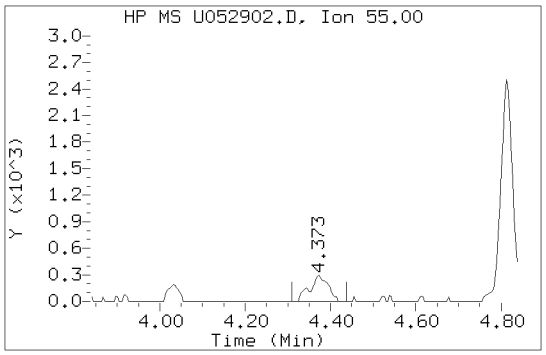
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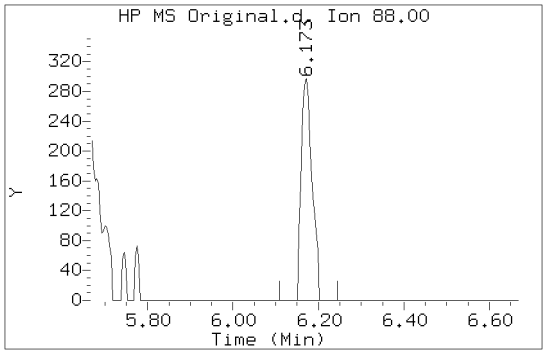


1,4-Dioxane ()

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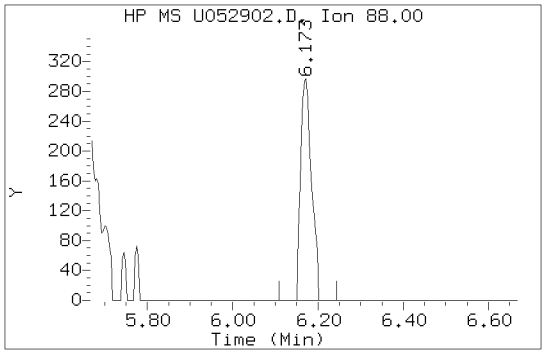
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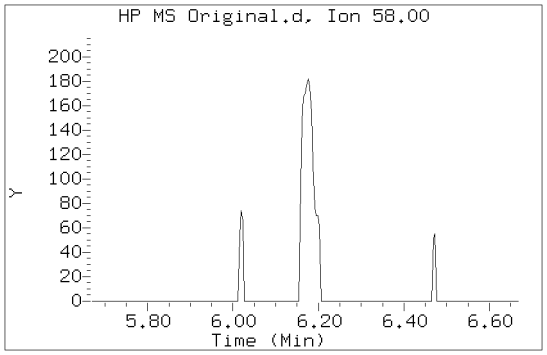
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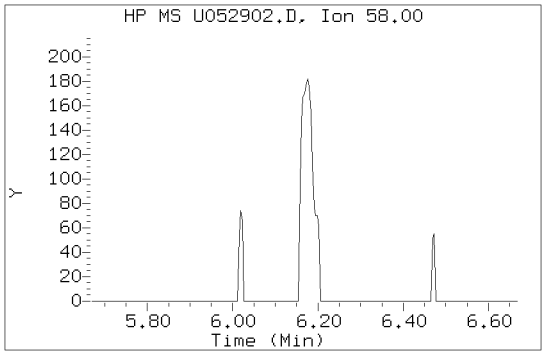
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Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D Page 1
Report Date: 07-Jun-2024 10:54

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
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Inj Date : 29-MAY-2024 11:00
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD00.5;VSTD00.5;1;2
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240529.b\8260C.m
Meth Date : 07-Jun-2024 10:14 r.patel Quant Type: ISTD
Cal Date : 29-MAY-2024 11:00 Cal File: U052903.D
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.812	4.811	(1.000)	298424	50.0000	
2	Dichlorodifluoromethane	85	1.157	1.156	(0.240)	397	0.50000	0.35(aM)
3	Chloromethane	50	1.288	1.288	(0.268)	6413	0.50000	0.90
4	Propionitrile	54	4.339	4.339	(0.902)	1595	5.00000	(aM)
5	Vinyl Chloride	62	1.370	1.366	(0.285)	950	0.50000	0.42(aM)
7	Chloroethane	64	1.689	1.681	(0.351)	1090	0.50000	0.39(aM)
8	Trichlorofluoromethane	101	1.884	1.884	(0.392)	927	0.50000	0.34(a)
9	Acrolein	56	2.251	2.259	(0.468)	367	1.00000	0.32(aM)
10	Acetone	43	2.401	2.405	(0.499)	2671	1.00000	1.19
11	1,1-Dichloroethene	96	2.326	2.322	(0.484)	872	0.50000	0.44(aM)
13	Acetonitrile	39	2.664	2.663	(0.554)	865	5.00000	3.57(a)
14	Allyl Chloride	41	2.664	2.667	(0.554)	2724	0.50000	0.23(a)
15	Iodomethane	142	2.457	2.457	(0.511)	772	1.00000	0.57(Ta)
19	Carbon Disulfide	76	2.510	2.510	(0.522)	5445	1.00000	0.98
20	trans-1,2-Dichloroethene	96	3.050	3.050	(0.634)	1106	0.50000	0.49(a)
21	Vinyl Acetate	43	4.343	4.339	(0.903)	1257	1.00000	0.95(aM)
22	1,1-Dichloroethane	63	3.503	3.507	(0.728)	2242	0.50000	0.52(T)
23	Chloroprene	53	3.601	3.601	(0.748)	1294	0.50000	0.41(a)
24	2-Butanone	43	4.272	4.260	(0.888)	1315	1.00000	0.98(aM)
25	Methacrylonitrile	41	4.497	4.489	(0.935)	638	0.50000	0.21(a)
26	2,2-Dichloropropane	77	4.174	4.174	(0.868)	1275	0.50000	0.45(aM)

27 cis-1,2-Dichloroethene	96	4.189	4.189 (0.871)	1451	0.50000	0.52
28 Chloroform	83	4.568	4.568 (0.949)	2142	0.50000	0.50

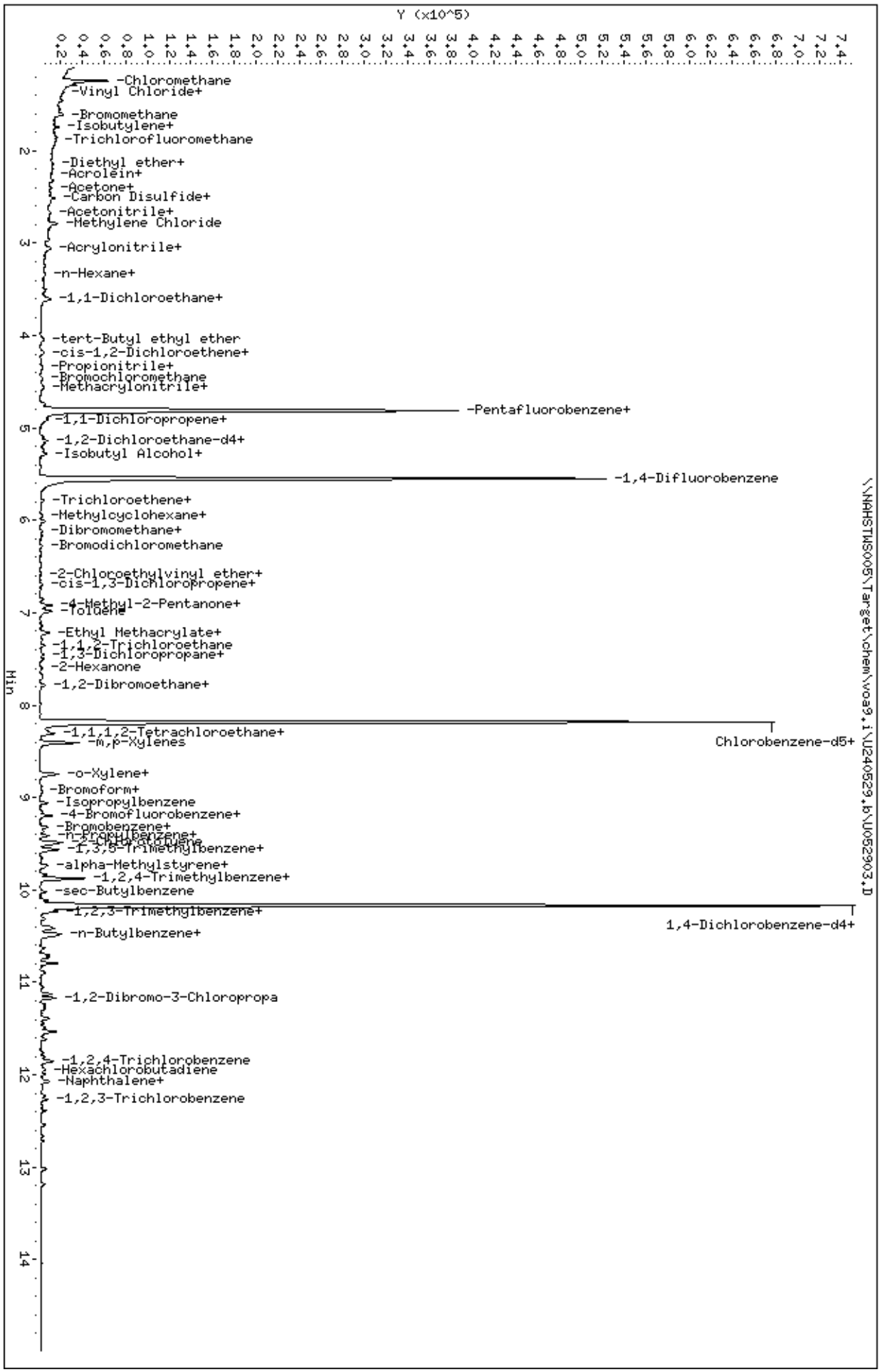
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	29 Bromochloromethane	128	4.459	4.463	(0.927)	704	0.50000	0.82
$	30 Dibromofluoromethane	113	4.748	4.744	(0.987)	1637	0.50000	0.34(a)
	31 1,1,1-Trichloroethane	97	4.733	4.736	(0.984)	1256	0.50000	0.42(a)
	32 1,1-Dichloropropene	75	4.920	4.916	(0.887)	1686	0.50000	0.53
	33 1,2-Dichloroethane	62	5.175	5.171	(0.932)	1765	0.50000	1.14(M)
	34 Carbon Tetrachloride	117	4.902	4.905	(0.883)	1246	0.50000	0.50(M)
$	35 1,2-Dichloroethane-d4	65	5.096	5.093	(1.059)	2042	0.50000	1.31(T)
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	433437	50.0000	
	37 Benzene	78	5.134	5.134	(0.925)	5858	0.50000	0.57
	38 Trichloroethene	130	5.786	5.786	(1.043)	1215	0.50000	0.48(a)
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	1183	0.50000	0.43(aM)
	40 Methyl Methacrylate	41	5.835	5.827	(1.213)	511	0.50000	0.82(aM)
	41 2-Chloroethylvinyl ether	63	6.577	6.573	(1.185)	505	1.00000	3.82(M)
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	1503	0.50000	0.55(aM)
	43 2-Nitropropane	43	6.506	6.506	(1.352)	164	0.50000	2.10(aM)
	44 Dibromomethane	93	6.116	6.116	(1.102)	725	0.50000	0.46(a)
	45 4-Methyl-2-Pentanone	43	6.858	6.851	(0.838)	2006	1.00000	1.18(a)
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	1376	0.50000	1.21(aM)
*	47 Chlorobenzene-d5	117	8.182	8.185	(1.000)	385437	50.0000	
$	48 Toluene-d8	98	6.922	6.918	(0.846)	7327	0.50000	1.19(a)
	49 Ethyl Methacrylate	69	7.293	7.289	(1.314)	1331	0.50000	0.39(a)
	50 Toluene	91	6.978	6.978	(0.853)	6525	0.50000	0.62(a)
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	919	0.50000	1.43(aM)
	52 2-Hexanone	43	7.597	7.589	(0.929)	1203	1.00000	2.39(TaM)
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	894	0.50000	0.10(a)
	54 1,3-Dichloropropane	76	7.499	7.499	(0.917)	2059	0.50000	0.48(a)
	55 Dibromochloromethane	129	7.691	7.690	(0.940)	788	0.50000	1.25(aM)
	56 Tetrachloroethene	164	7.458	7.454	(0.912)	866	0.50000	0.47(a)
	57 1,2-Dibromoethane	107	7.788	7.784	(0.952)	1079	0.50000	0.46(a)
	58 1-Chlorohexane	55	8.182	8.196	(1.474)	4455	0.50000	1.50(a)
	59 Chlorobenzene	112	8.208	8.208	(1.003)	3510	0.50000	0.52(a)
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	888	0.50000	0.41(a)
	61 Ethylbenzene	106	8.305	8.305	(1.015)	2343	0.50000	0.73(a)
	62 m,p-Xylenes	106	8.407	8.406	(1.027)	10673	1.00000	1.77(a)
	63 o-Xylene	106	8.744	8.744	(1.069)	3953	0.50000	1.78(a)
	64 Styrene	104	8.763	8.759	(1.071)	3009	0.50000	0.47(a)
	66 Bromoform	173	8.916	8.916	(1.090)	424	0.50000	1.80(aM)
	67 Isopropylbenzene	105	9.063	9.059	(1.108)	4312	0.50000	0.46(a)
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	1594	0.50000	0.47(aM)
$	69 4-Bromofluorobenzene	95	9.194	9.190	(1.124)	3574	0.50000	1.23(a)
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	201203	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.921)	1200	0.50000	0.38(aM)
	72 trans-1,4-Dichloro-2-butene	53	9.381	9.377	(1.147)	306	0.50000	0.46(aM)
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	6391	0.50000	0.58(a)
	74 Bromobenzene	156	9.321	9.317	(0.917)	1370	0.50000	0.49(a)
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	8297	0.50000	0.84(a)
	76 2-Chlorotoluene	91	9.482	9.482	(0.933)	5091	0.50000	0.28(a)
	77 4-Chlorotoluene	91	9.576	9.576	(0.942)	4175	0.50000	0.53(a)
	78 tert-Butylbenzene	119	9.835	9.835	(0.967)	2791	0.50000	0.45(aM)
	79 1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	22634	0.50000	1.24(a)
	81 sec-Butylbenzene	105	10.018	10.022	(0.985)	3943	0.50000	0.47(a)
	82 p-Isopropyltoluene	119	10.146	10.146	(0.998)	3411	0.50000	0.47(a)

83 1,3-Dichlorobenzene	146	10.116	10.116 (0.995)	2434	0.50000	0.52(aM)
84 1,4-Dichlorobenzene	146	10.187	10.191 (1.002)	2962	0.50000	0.57(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
86	Benzyl Chloride	91	10.311	10.311	(1.260)	2950	0.50000	2.12(aM)
87	n-Butylbenzene	91	10.491	10.491	(1.032)	6464	0.50000	1.24(a)
88	1,2-Dichlorobenzene	146	10.506	10.502	(1.033)	2607	0.50000	0.53(aM)
89	1,2-Dibromo-3-Chloropropane	155	11.166	11.165	(1.098)	128	0.50000	1.13(aM)
90	1,2,4-Trichlorobenzene	180	11.863	11.855	(1.167)	1430	0.50000	0.46(a)
91	Hexachlorobutadiene	225	11.998	11.998	(1.180)	668	0.50000	0.54(aM)
92	Naphthalene	128	12.073	12.065	(1.187)	7391	0.50000	0.82(a)
93	1,2,3-Trichlorobenzene	180	12.271	12.268	(1.207)	1338	0.50000	0.47(a)
146	Methyl acetate	43	2.705	2.708	(0.562)	1181	0.50000	0.75(aM)
138	Freon TF	101	2.315	2.326	(0.481)	683	0.50000	0.84(aM)
141	Cyclohexane	56	4.808	4.778	(0.999)	6283	0.50000	1.03(a)
147	Methylcyclohexane	55	5.951	5.944	(1.072)	1801	0.50000	0.91(a)
135	1,4-Dioxane	88	6.169	6.168	(1.282)	700	10.0000	6.75(aM)
132	n-Butanol	56	5.839	5.827	(1.213)	701	10.0000	8.71(aM)
136	n-Hexane	57	3.335	3.331	(0.693)	1203	0.50000	1.23(Ta)
149	Isopropyl alcohol	45	2.559	2.570	(0.532)	1852	10.0000	(a)
152	Amyl alcohol	42	7.413	7.398	(0.906)	468	10.0000	24.33(M)
156	Diisopropyl ether	45	3.616	3.619	(0.751)	3553	0.50000	0.46(aM)
162	Butyl acrylate	55	8.736	8.733	(1.068)	1363	0.50000	1.16(a)
164	Dicyclopentadiene	66	10.195	10.198	(1.003)	5765	0.50000	0.55(TaM)
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	6866	0.50000	1.70(a)
167	Ethanol	45	2.079	2.086	(0.432)	339	10.0000	(aM)
172	tert-Butyl formate	59	5.243	5.250	(1.090)	1972	1.00000	0.83(aM)
173	3,3-Dimethyl-1-butanol	57	7.781	7.784	(0.951)	2051	10.0000	7.64(M)
174	tert-Amyl methyl ether	73	5.280	5.284	(1.097)	3014	0.50000	0.43(Ta)
175	tert-Butyl ethyl ether	59	4.043	4.047	(0.840)	2826	0.50000	0.41(a)
176	tert-Amyl alcohol	59	5.243	5.250	(1.090)	1972	10.0000	8.26(M)
151	4-Methyl-2-pentanol	45	7.218	7.222	(1.301)	5007	10.0000	19.67
140	1,3-Butadiene	54	1.397	1.396	(0.290)	441	0.50000	0.39(aM)
182	Epichlorohydrin	57	6.630	6.630	(1.195)	323	2.00000	3.48(aM)
M 94	1,2-Dichloroethylene (total)	96				2557	1.00000	(a)
130	Ethyl Acetate	43	4.343	4.339	(0.903)	1284	0.50000	0.46(aM)
134	Cyclohexanone	55	9.153	9.152	(0.900)	969	10.0000	19.06(Ta)
185	Isoprene	39	2.142	2.146	(0.445)	81	0.50000	0.82(aM)
150	Allyl alcohol	57	3.335	3.331	(0.693)	1203	10.0000	24.62
194	Acetaldehyde	44	1.456	1.453	(0.303)	1640	2.00000	2.71(aM)
195	Methyl Amyl Ketone	43	8.871	8.868	(1.084)	1718	0.50000	0.36(aM)
200	Dimethyl Disulfide	94	6.746	6.746	(0.825)	248	0.50000	5.11(M)
133	Ethyl Acrylate	55	5.951	5.944	(1.237)	1801	0.50000	0.82(aM)
163	Butyl methacrylate	41	9.651	9.647	(0.949)	1219	0.50000	0.52(a)
159	Propylene oxide	43	2.195	2.191	(0.456)	651	1.00000	2.71(aM)
203	2-Ethylhexyl Acrylate	55	12.043	12.039	(1.184)	644	0.50000	1.61(a)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Column phase: DB624

Instrument: VOA9.i
Operator: FT
Column diameter: 0.18

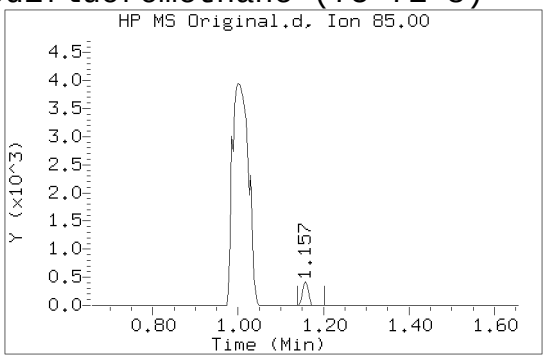
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InstruID : VOA9.i
LabSampID : VSTD00.5

Dichlorodifluoromethane (75-71-8)

Reason Code:

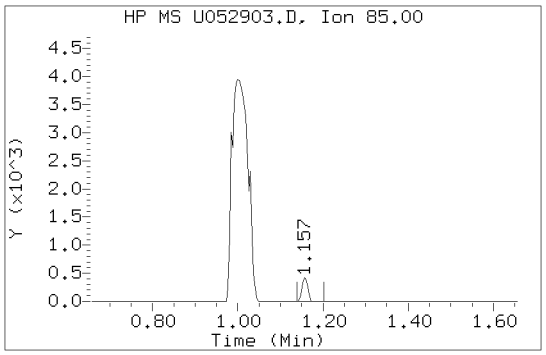
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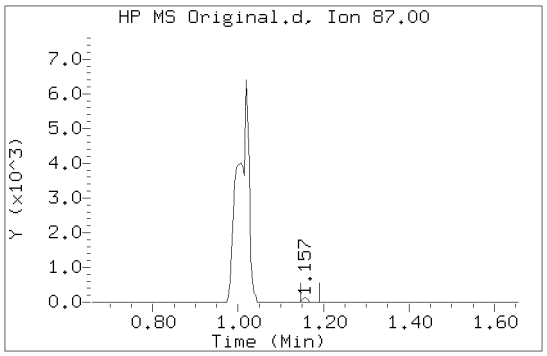
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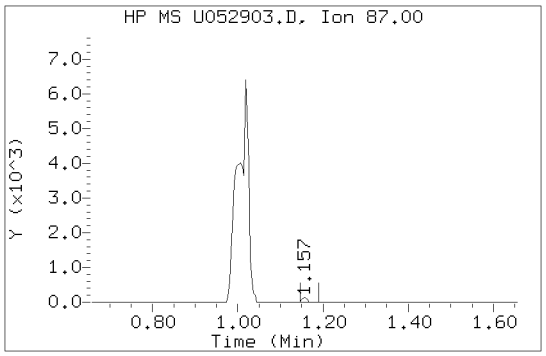
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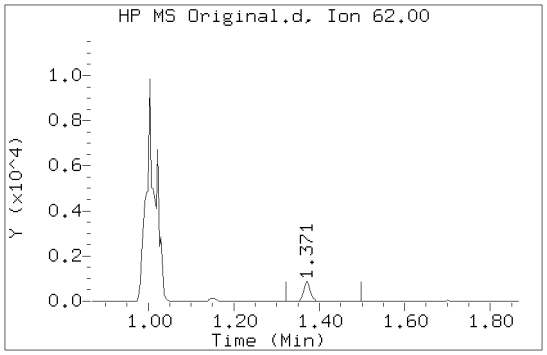


Vinyl Chloride (75-01-4)

Reason Code:

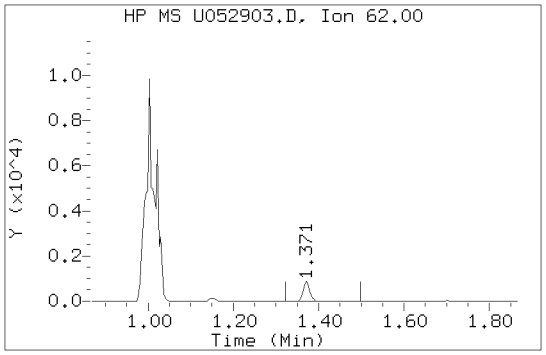
BEFORE

MASS
62
AREA
950
HEIGHT
880
06-Jun-2024
17:10
s
zaid



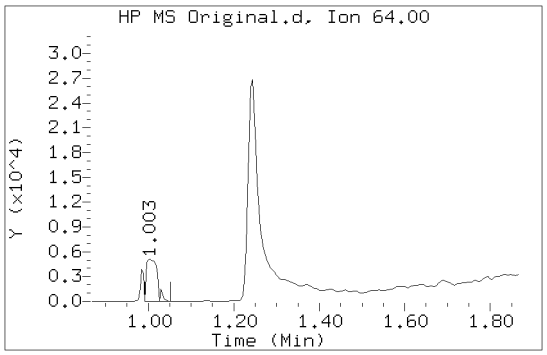
AFTER

MASS
62
AREA
950
HEIGHT
880
06-Jun-2024
17:10
s
zaid



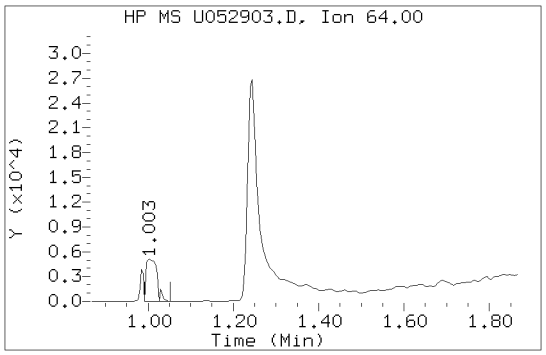
BEFORE

MASS
64
AREA
8932
HEIGHT
5099
06-Jun-2024
17:10
s
zaid



AFTER

MASS
64
AREA
8932
HEIGHT
5099
06-Jun-2024
17:10
s
zaid



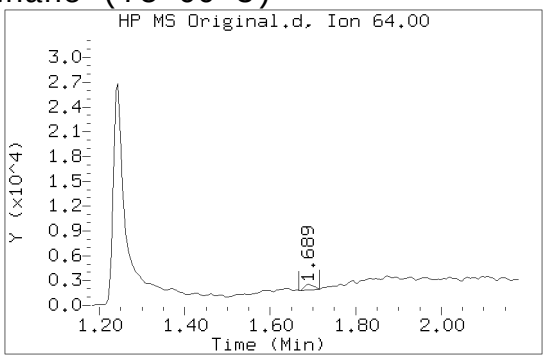
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

Chloroethane (75-00-3)

Reason Code:

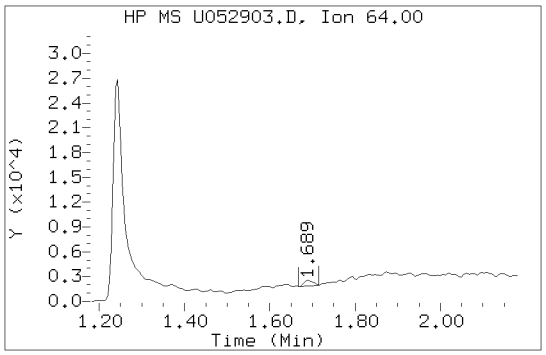
BEFORE

MASS
64
AREA
1090
HEIGHT
690
06-Jun-2024
17:10
s
zaid



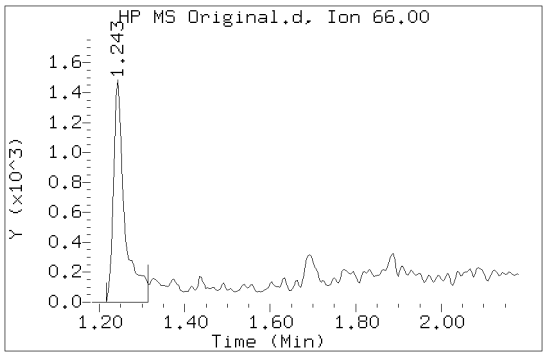
AFTER

MASS
64
AREA
1090
HEIGHT
690
06-Jun-2024
17:10
s
zaid



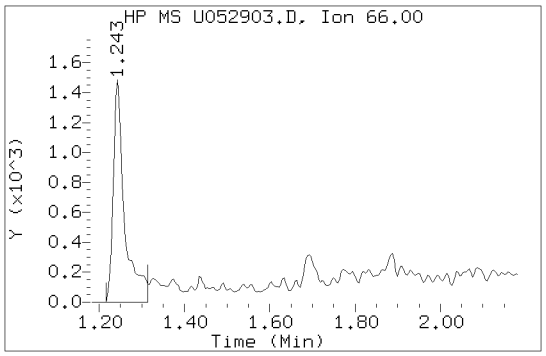
BEFORE

MASS
66
AREA
2749
HEIGHT
1485
06-Jun-2024
17:10
s
zaid



AFTER

MASS
66
AREA
2749
HEIGHT
1485
06-Jun-2024
17:10
s
zaid

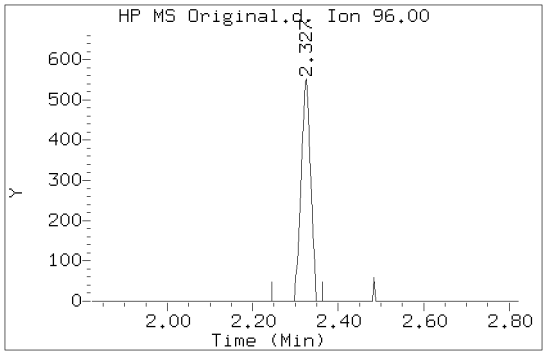


1,1-Dichloroethene (75-35-4)

Reason Code:

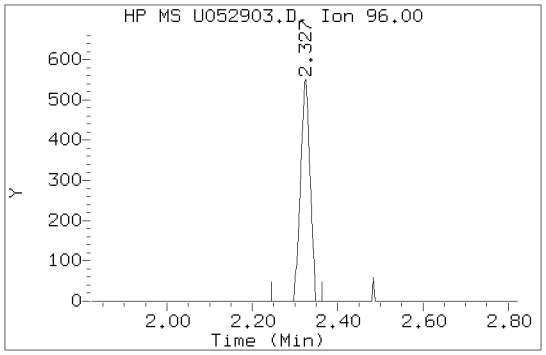
BEFORE

MASS
96
AREA
872
HEIGHT
552
06-Jun-2024
17:10
s
zaid



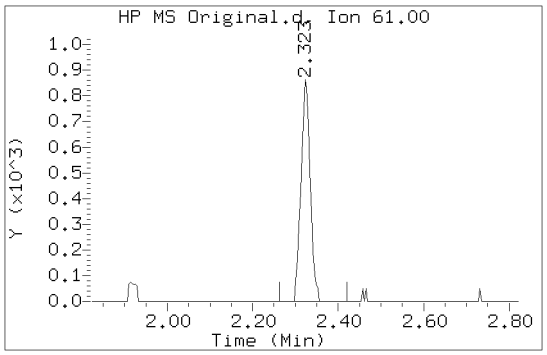
AFTER

MASS
96
AREA
872
HEIGHT
552
06-Jun-2024
17:10
s
zaid



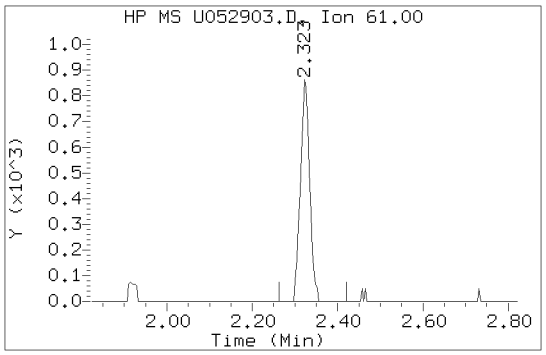
BEFORE

MASS
61
AREA
1335
HEIGHT
863
06-Jun-2024
17:10
s
zaid



AFTER

MASS
61
AREA
1335
HEIGHT
863
06-Jun-2024
17:10
s
zaid



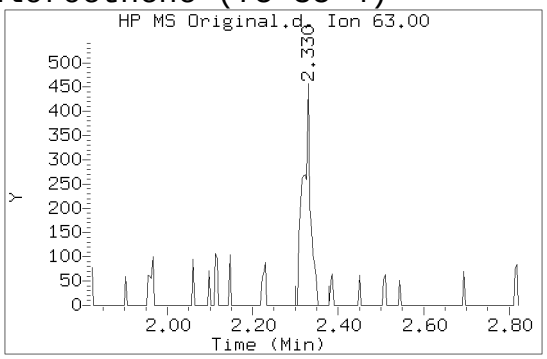
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

1,1-Dichloroethene (75-35-4)

Reason Code:

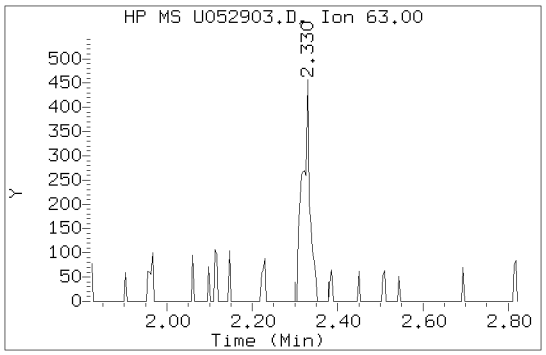
BEFORE

MASS
63
AREA
556
HEIGHT
457
06-Jun-2024
17:10
s
zaid



AFTER

MASS
63
AREA
556
HEIGHT
457
06-Jun-2024
17:10
s
zaid

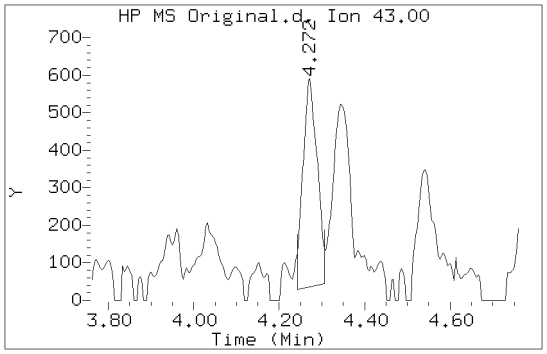


2-Butanone (78-93-3)

Reason Code:

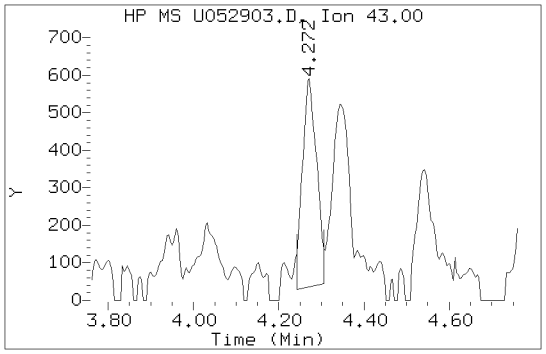
BEFORE

MASS
43
AREA
1315
HEIGHT
554
06-Jun-2024
17:10
s
zaid



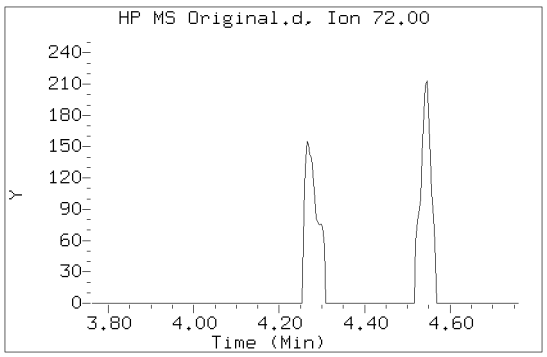
AFTER

MASS
43
AREA
1315
HEIGHT
554
06-Jun-2024
17:10
s
zaid



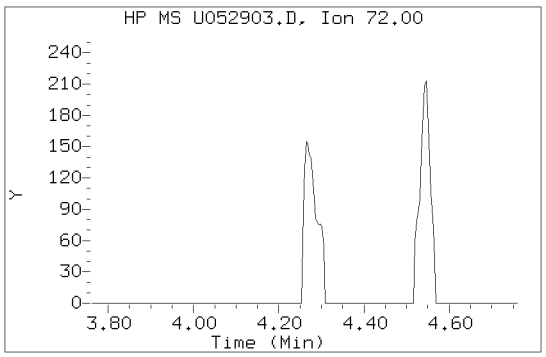
BEFORE

MASS
72
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
72
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid

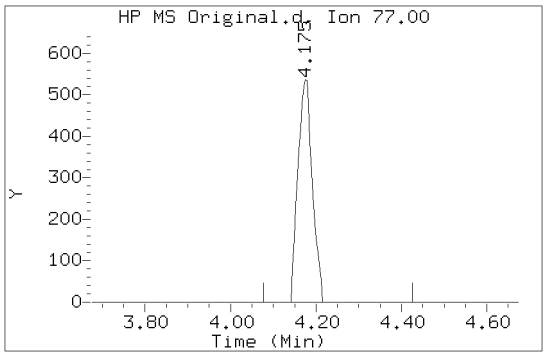


2,2-Dichloropropane (594-20-7)

Reason Code:

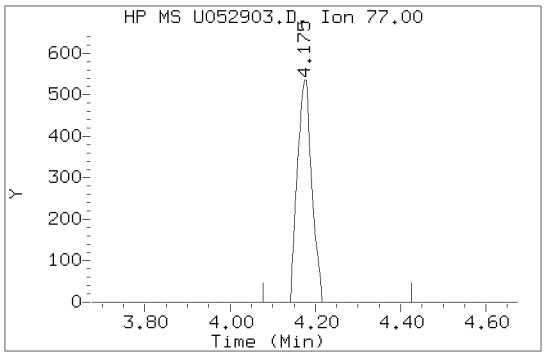
BEFORE

MASS
77
AREA
1275
HEIGHT
536
06-Jun-2024
17:10
s
zaid



AFTER

MASS
77
AREA
1275
HEIGHT
536
06-Jun-2024
17:10
s
zaid



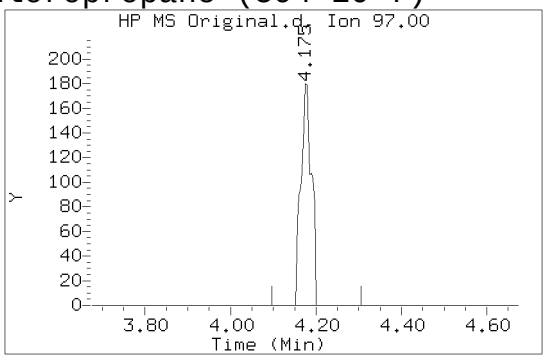
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

2,2-Dichloropropane (594-20-7)

Reason Code:

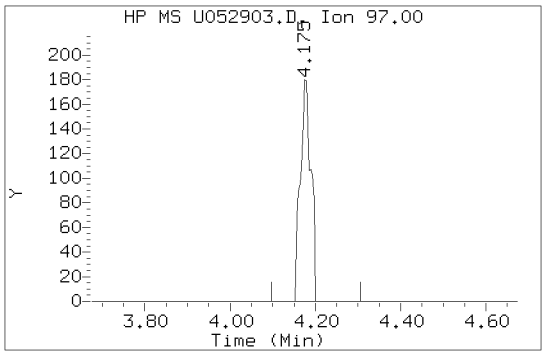
BEFORE

MASS
97
AREA
316
HEIGHT
180
06-Jun-2024
17:10
s
zaid



AFTER

MASS
97
AREA
316
HEIGHT
180
06-Jun-2024
17:10
s
zaid

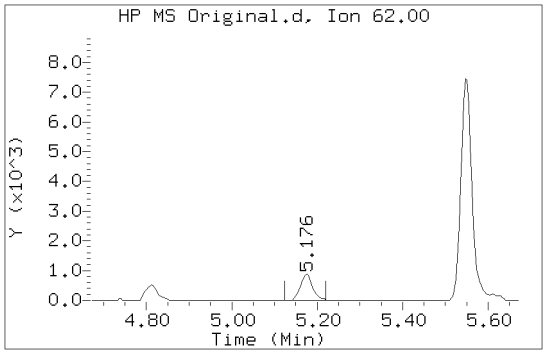


1,2-Dichloroethane (107-06-2)

Reason Code:

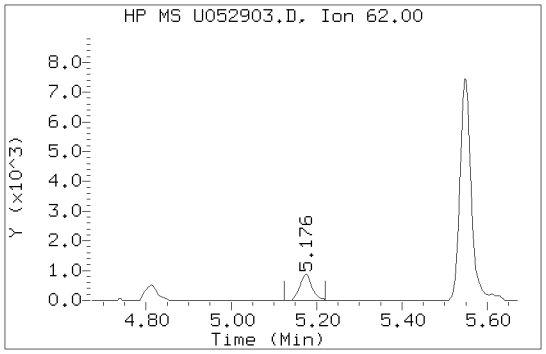
BEFORE

MASS
62
AREA
1765
HEIGHT
882
06-Jun-2024
17:10
s
zaid



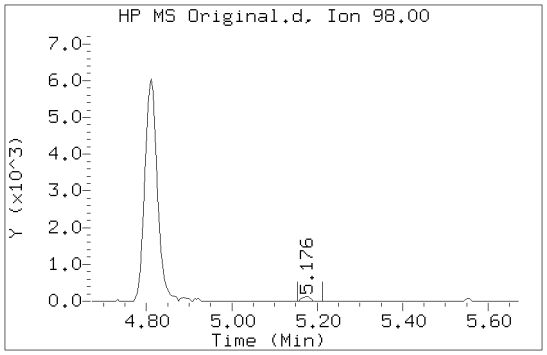
AFTER

MASS
62
AREA
1765
HEIGHT
882
06-Jun-2024
17:10
s
zaid



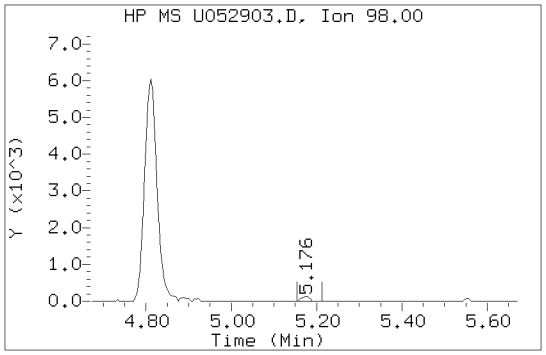
BEFORE

MASS
98
AREA
172
HEIGHT
121
06-Jun-2024
17:10
s
zaid



AFTER

MASS
98
AREA
172
HEIGHT
121
06-Jun-2024
17:10
s
zaid

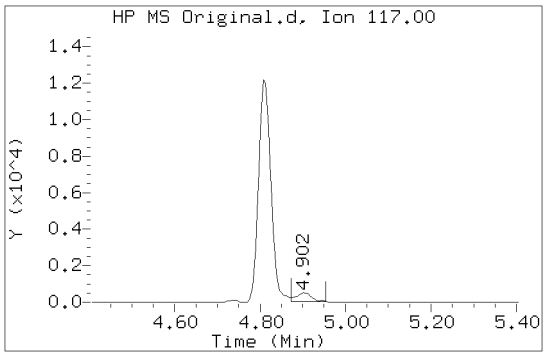


Carbon Tetrachloride (56-23-5)

Reason Code:

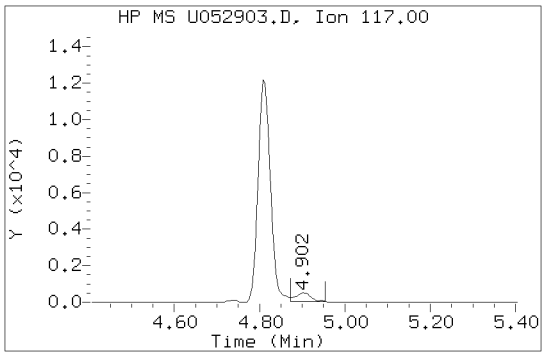
BEFORE

MASS
117
AREA
1246
HEIGHT
473
06-Jun-2024
17:10
s
zaid



AFTER

MASS
117
AREA
1246
HEIGHT
473
06-Jun-2024
17:10
s
zaid



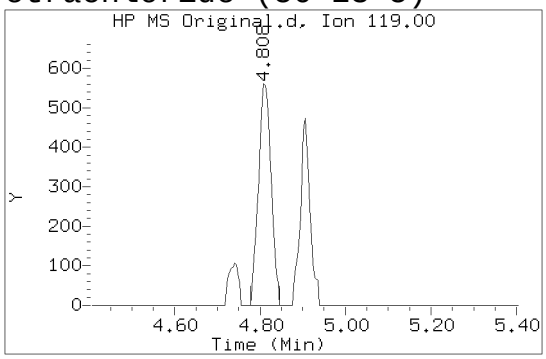
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

Carbon Tetrachloride (56-23-5)

Reason Code:

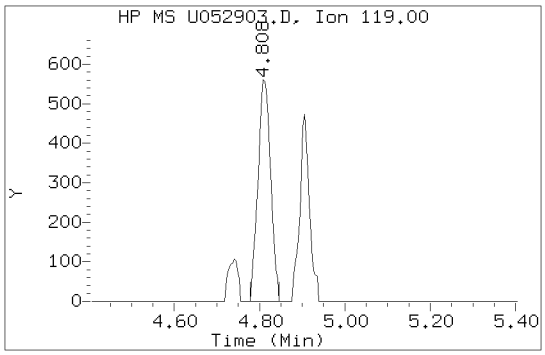
BEFORE

MASS
119
AREA
1158
HEIGHT
561
06-Jun-2024
17:10
s
zaid



AFTER

MASS
119
AREA
1158
HEIGHT
561
06-Jun-2024
17:10
s
zaid

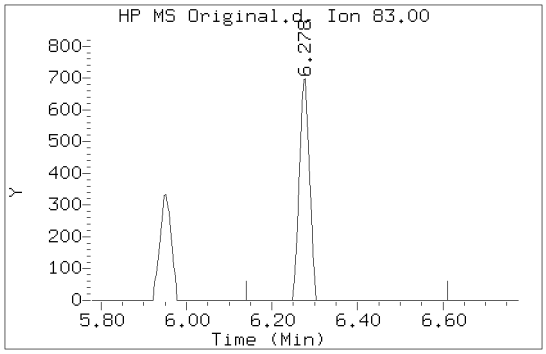


Bromodichloromethane (75-27-4)

Reason Code:

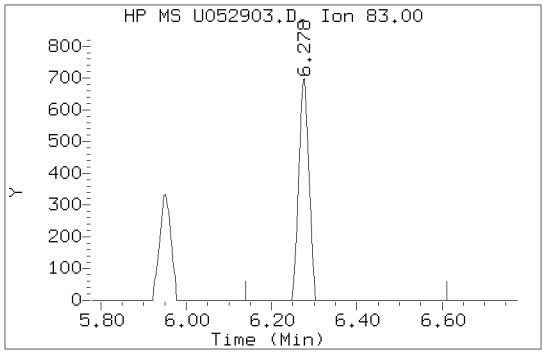
BEFORE

MASS
83
AREA
1183
HEIGHT
698
06-Jun-2024
17:10
s
zaid



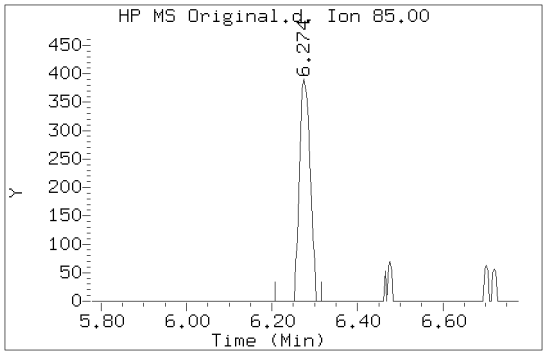
AFTER

MASS
83
AREA
1183
HEIGHT
698
06-Jun-2024
17:10
s
zaid



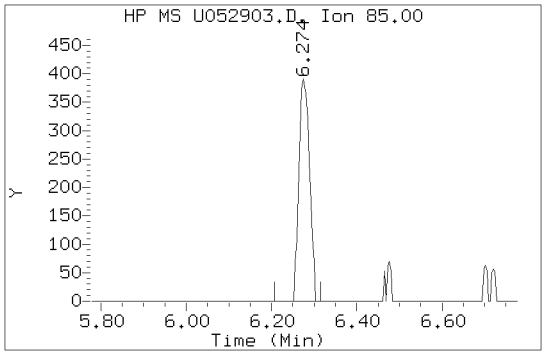
BEFORE

MASS
85
AREA
696
HEIGHT
391
06-Jun-2024
17:10
s
zaid



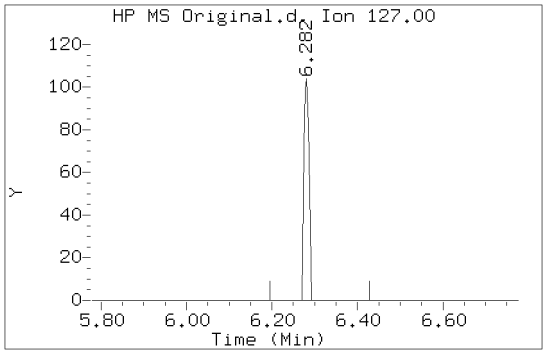
AFTER

MASS
85
AREA
696
HEIGHT
391
06-Jun-2024
17:10
s
zaid



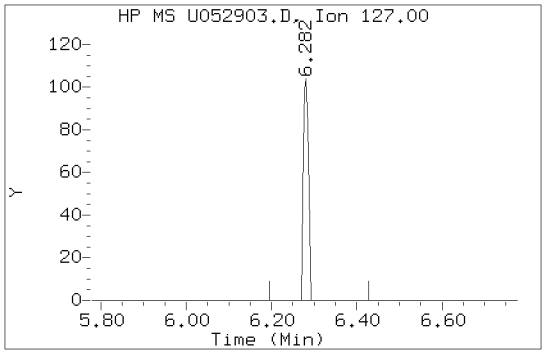
BEFORE

MASS
127
AREA
91
HEIGHT
104
06-Jun-2024
17:10
s
zaid



AFTER

MASS
127
AREA
91
HEIGHT
104
06-Jun-2024
17:10
s
zaid



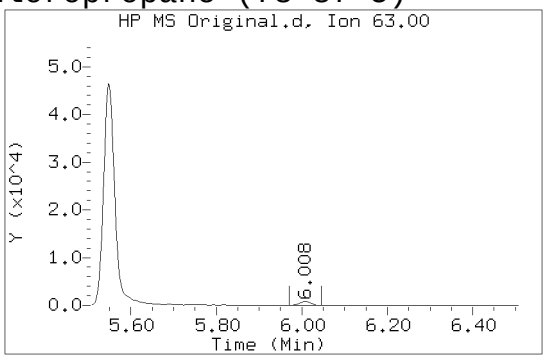
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

1,2-Dichloropropane (78-87-5)

Reason Code:

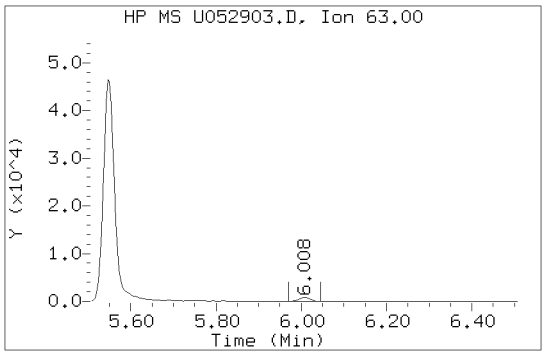
BEFORE

MASS
63
AREA
1503
HEIGHT
823
06-Jun-2024
17:10
s
zaid



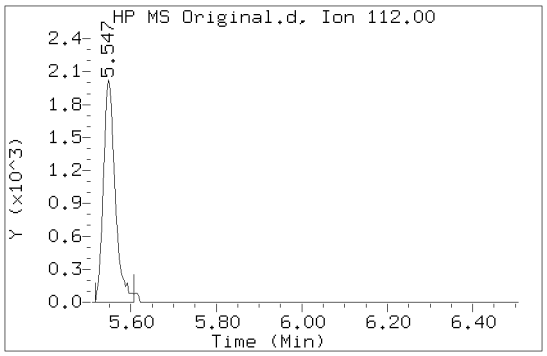
AFTER

MASS
63
AREA
1503
HEIGHT
823
06-Jun-2024
17:10
s
zaid



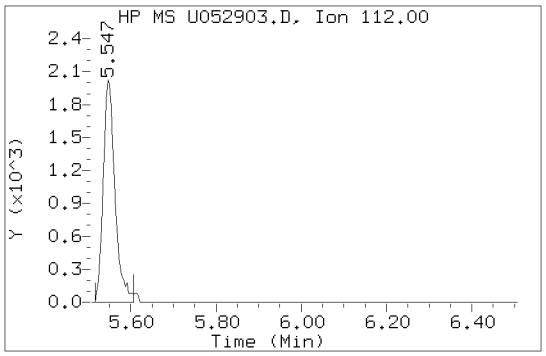
BEFORE

MASS
112
AREA
3881
HEIGHT
2025
06-Jun-2024
17:10
s
zaid



AFTER

MASS
112
AREA
3881
HEIGHT
2025
06-Jun-2024
17:10
s
zaid

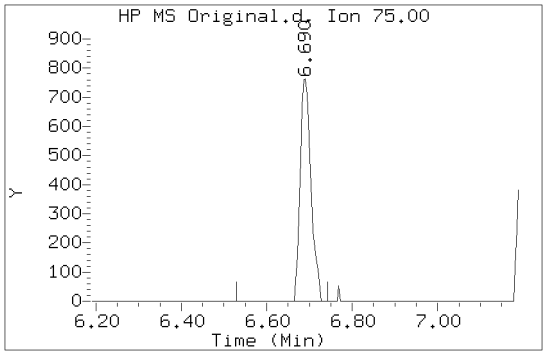


cis-1,3-Dichloropropene (10061-01-5)

Reason Code:

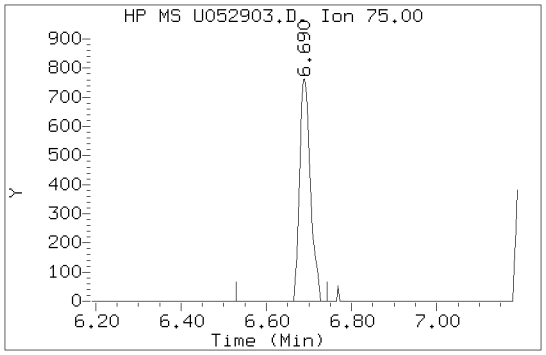
BEFORE

MASS
75
AREA
1376
HEIGHT
763
06-Jun-2024
17:10
s
zaid



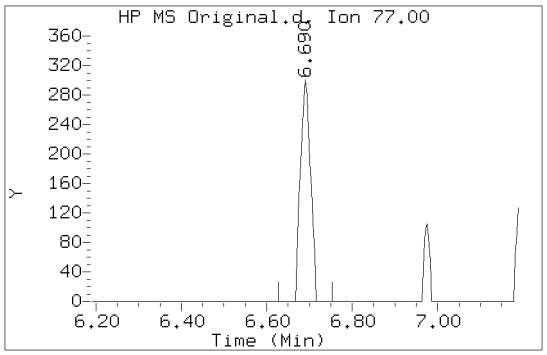
AFTER

MASS
75
AREA
1376
HEIGHT
763
06-Jun-2024
17:10
s
zaid



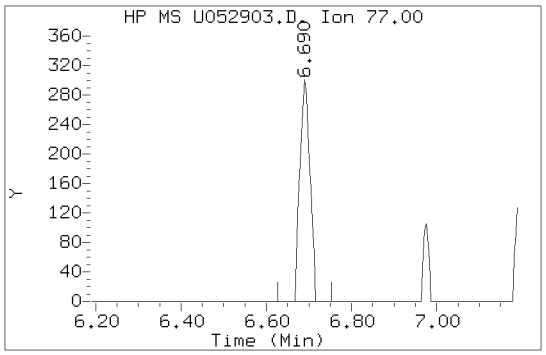
BEFORE

MASS
77
AREA
504
HEIGHT
301
06-Jun-2024
17:10
s
zaid



AFTER

MASS
77
AREA
504
HEIGHT
301
06-Jun-2024
17:10
s
zaid



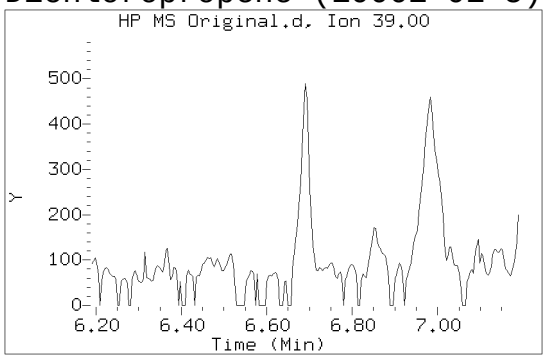
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

cis-1,3-Dichloropropene (10061-01-5)

Reason Code:

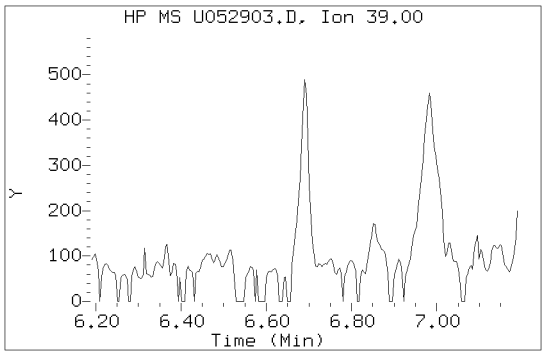
BEFORE

MASS
39
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
39
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid

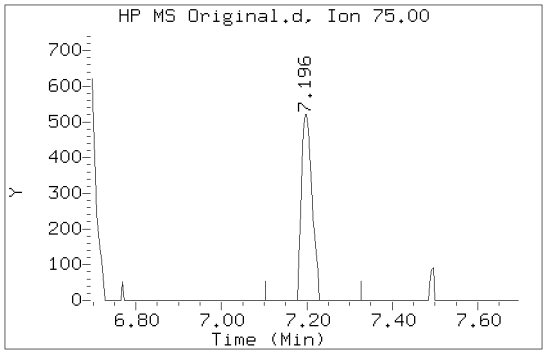


trans-1,3-Dichloropropene (10061-02-6)

Reason Code:

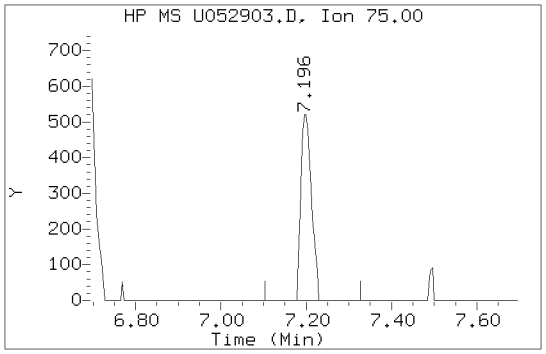
BEFORE

MASS
75
AREA
919
HEIGHT
520
06-Jun-2024
17:10
s
zaid



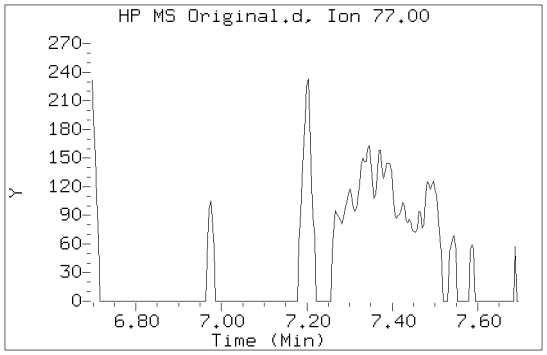
AFTER

MASS
75
AREA
919
HEIGHT
520
06-Jun-2024
17:10
s
zaid



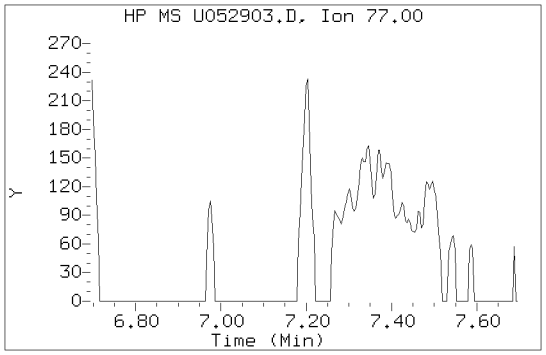
BEFORE

MASS
77
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



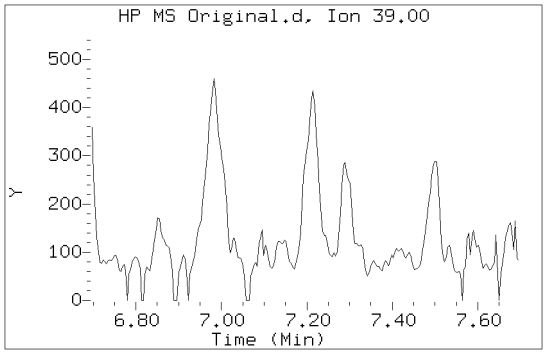
AFTER

MASS
77
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



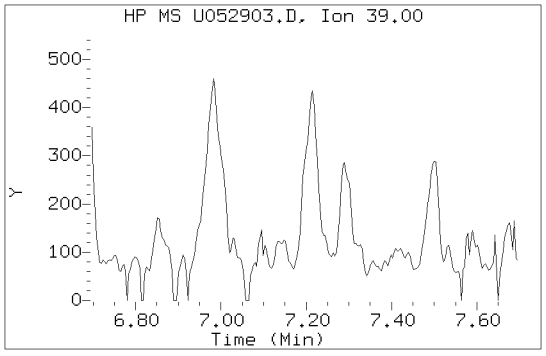
BEFORE

MASS
39
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
39
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



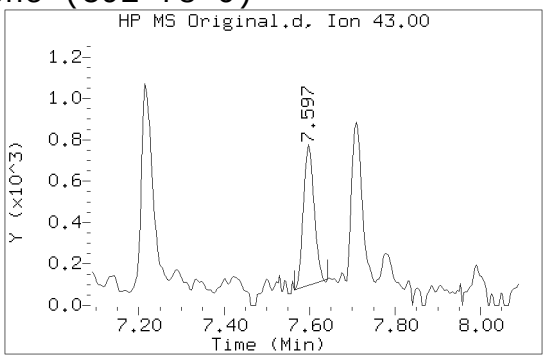
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

2-Hexanone (591-78-6)

Reason Code:

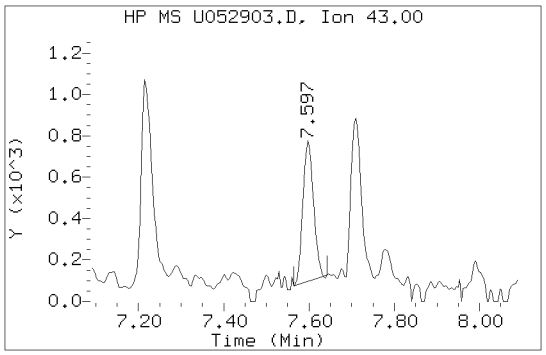
BEFORE

MASS
43
AREA
1203
HEIGHT
681
06-Jun-2024
17:10
s
zaid



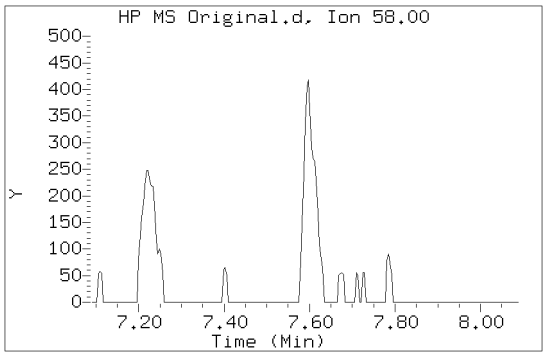
AFTER

MASS
43
AREA
1203
HEIGHT
681
06-Jun-2024
17:10
s
zaid



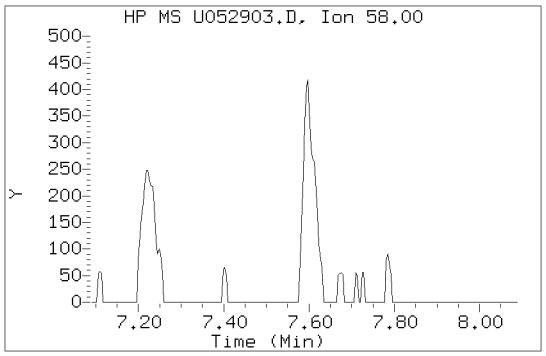
BEFORE

MASS
58
AREA
902
HEIGHT
512
06-Jun-2024
17:10
s
zaid



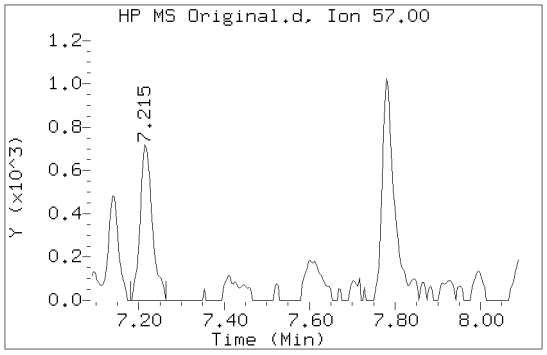
AFTER

MASS
58
AREA
902
HEIGHT
512
06-Jun-2024
17:10
s
zaid



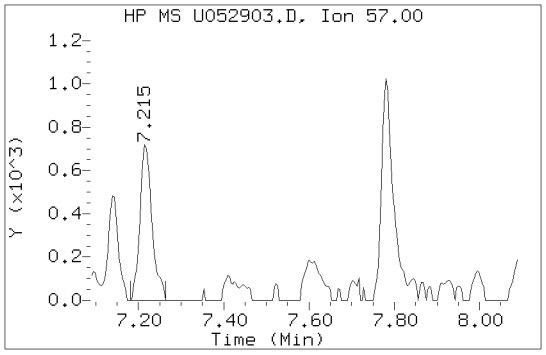
BEFORE

MASS
57
AREA
1422
HEIGHT
720
06-Jun-2024
17:10
s
zaid



AFTER

MASS
57
AREA
1422
HEIGHT
720
06-Jun-2024
17:10
s
zaid

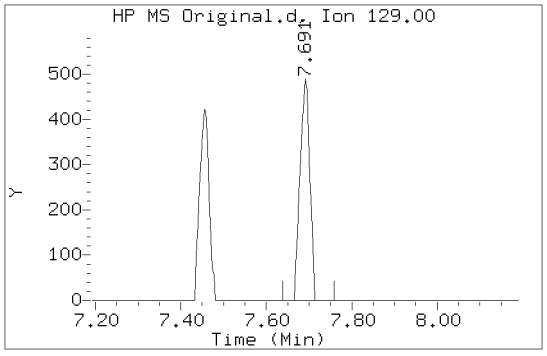


Dibromochloromethane (124-48-1)

Reason Code:

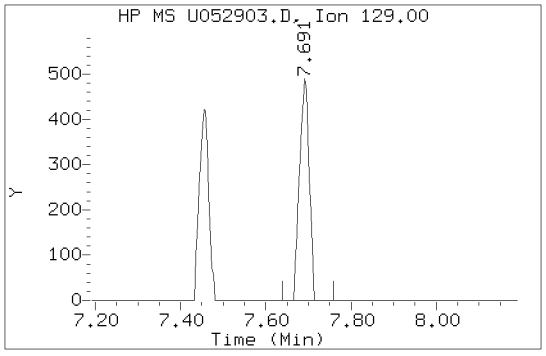
BEFORE

MASS
129
AREA
788
HEIGHT
490
06-Jun-2024
17:10
s
zaid



AFTER

MASS
129
AREA
788
HEIGHT
490
06-Jun-2024
17:10
s
zaid



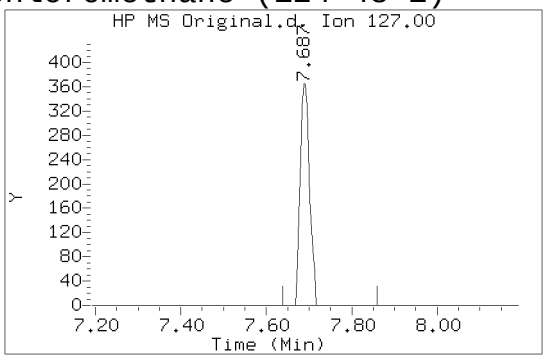
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

Dibromochloromethane (124-48-1)

Reason Code:

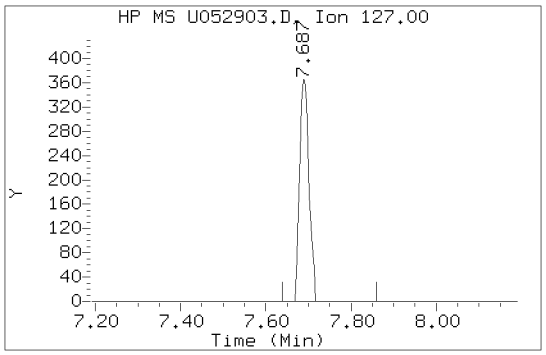
BEFORE

MASS
127
AREA
572
HEIGHT
365
06-Jun-2024
17:10
s
zaid



AFTER

MASS
127
AREA
572
HEIGHT
365
06-Jun-2024
17:10
s
zaid

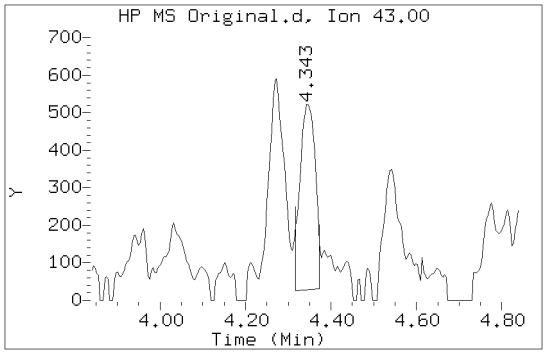


Vinyl Acetate (108-05-4)

Reason Code:

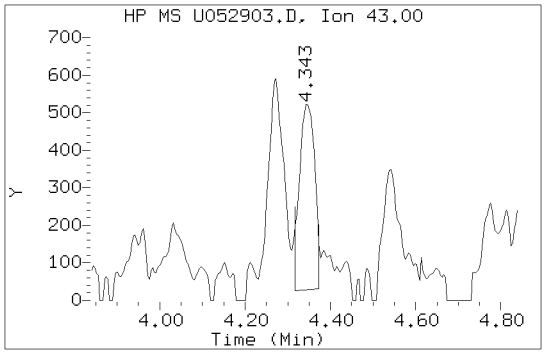
BEFORE

MASS
43
AREA
1257
HEIGHT
494
06-Jun-2024
17:10
s
zaid



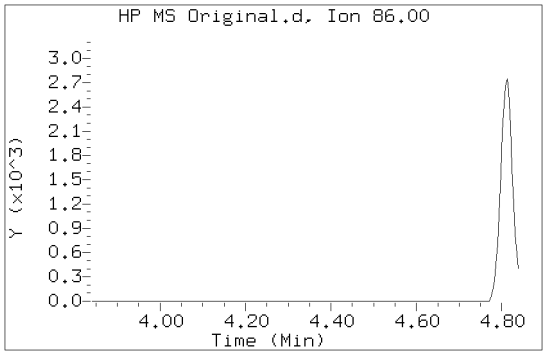
AFTER

MASS
43
AREA
1257
HEIGHT
494
06-Jun-2024
17:10
s
zaid



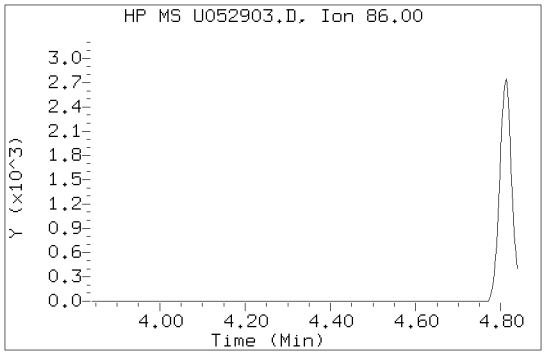
BEFORE

MASS
86
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
86
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid

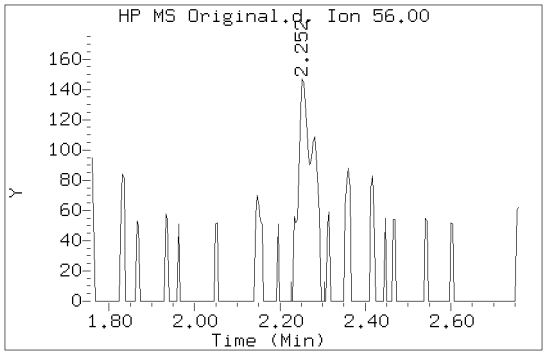


Acrolein (107-02-8)

Reason Code:

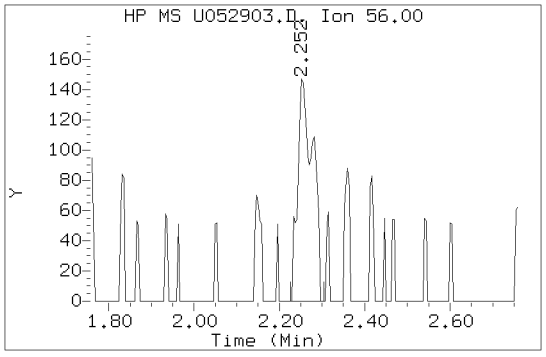
BEFORE

MASS
56
AREA
367
HEIGHT
147
06-Jun-2024
17:10
s
zaid



AFTER

MASS
56
AREA
367
HEIGHT
147
06-Jun-2024
17:10
s
zaid



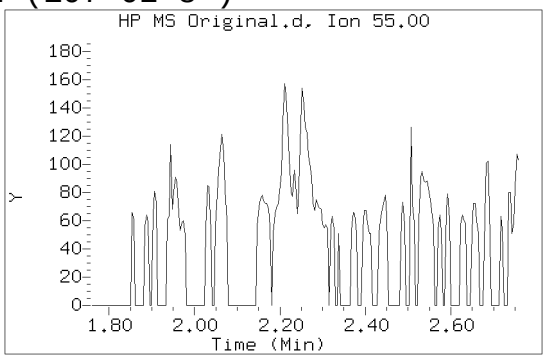
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

Acrolein (107-02-8)

Reason Code:

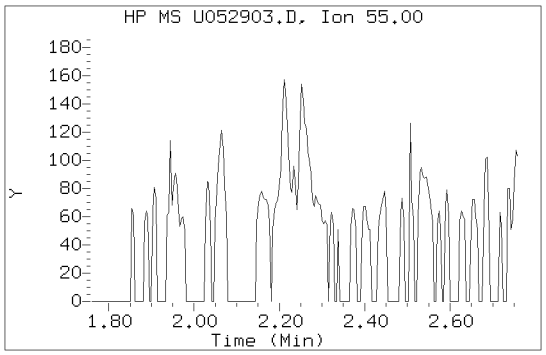
BEFORE

MASS
55
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
55
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid

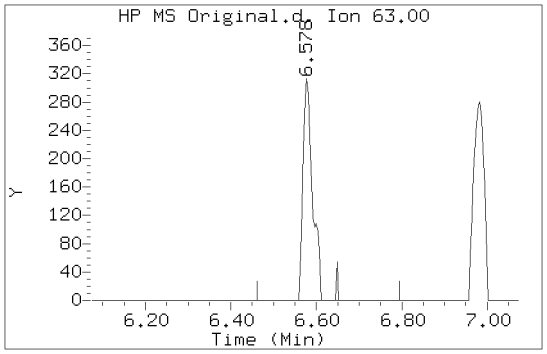


2-Chloroethylvinyl ether (110-75-8)

Reason Code:

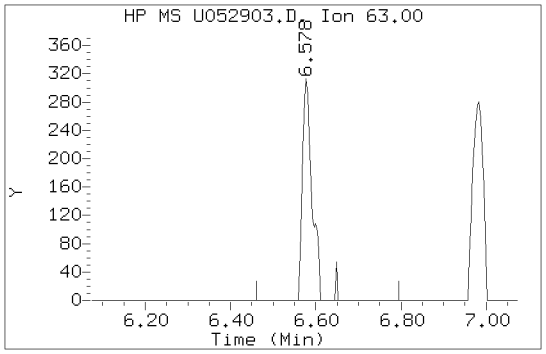
BEFORE

MASS
63
AREA
505
HEIGHT
313
06-Jun-2024
17:10
s
zaid



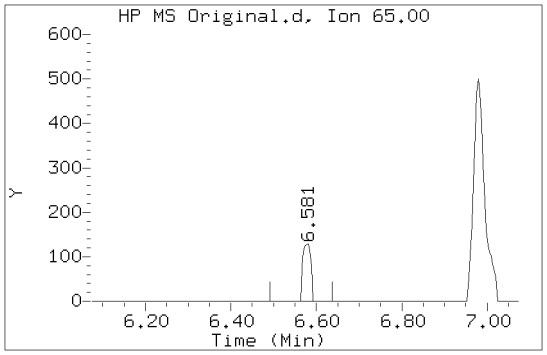
AFTER

MASS
63
AREA
505
HEIGHT
313
06-Jun-2024
17:10
s
zaid



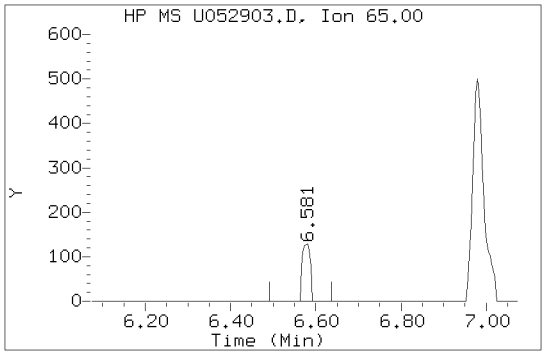
BEFORE

MASS
65
AREA
171
HEIGHT
128
06-Jun-2024
17:10
s
zaid



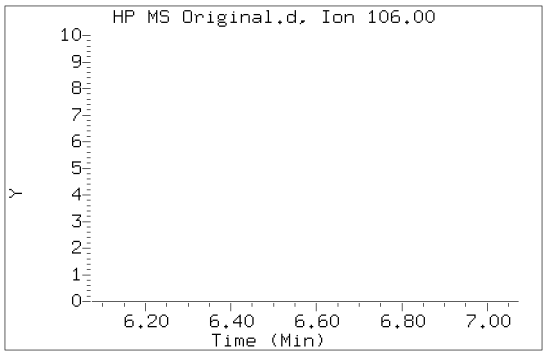
AFTER

MASS
65
AREA
171
HEIGHT
128
06-Jun-2024
17:10
s
zaid



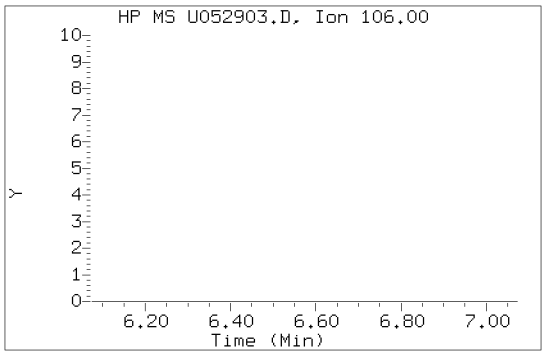
BEFORE

MASS
106
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
106
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



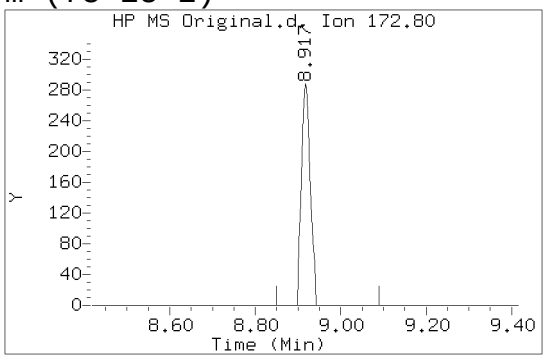
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

Bromoform (75-25-2)

Reason Code:

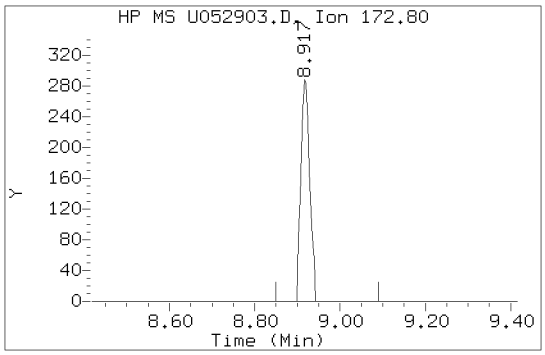
BEFORE

MASS
172.8
AREA
424
HEIGHT
288
06-Jun-2024
17:10
s
zaid



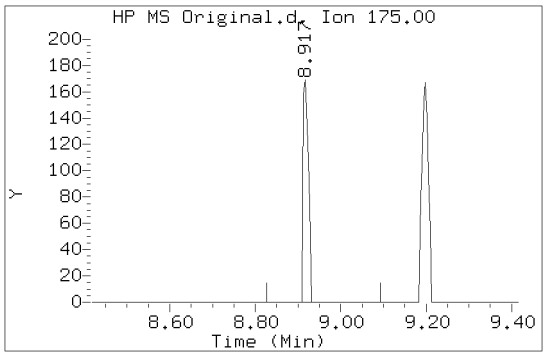
AFTER

MASS
172.8
AREA
424
HEIGHT
288
06-Jun-2024
17:10
s
zaid



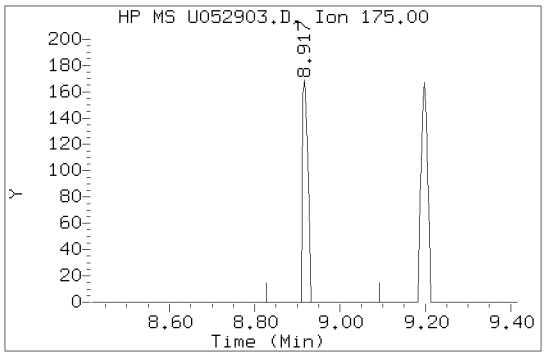
BEFORE

MASS
175
AREA
147
HEIGHT
169
06-Jun-2024
17:10
s
zaid



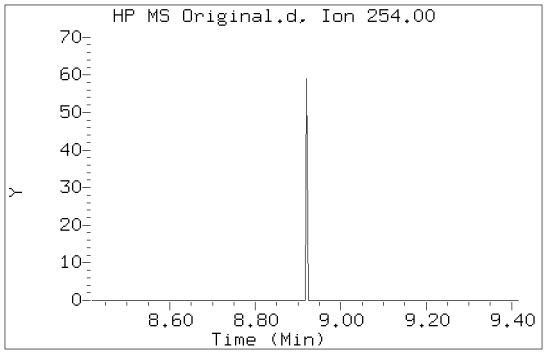
AFTER

MASS
175
AREA
147
HEIGHT
169
06-Jun-2024
17:10
s
zaid



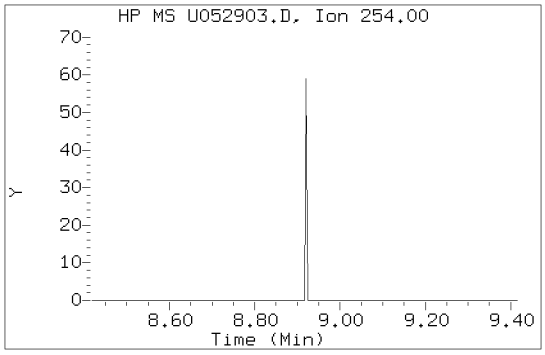
BEFORE

MASS
254
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
254
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid

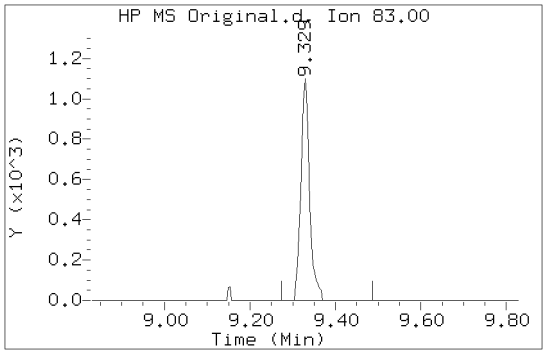


1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

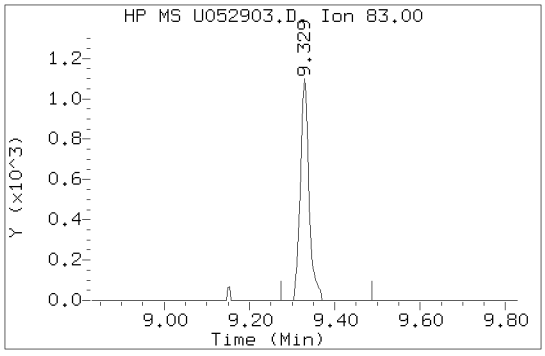
BEFORE

MASS
83
AREA
1594
HEIGHT
1100
06-Jun-2024
17:10
s
zaid



AFTER

MASS
83
AREA
1594
HEIGHT
1100
06-Jun-2024
17:10
s
zaid



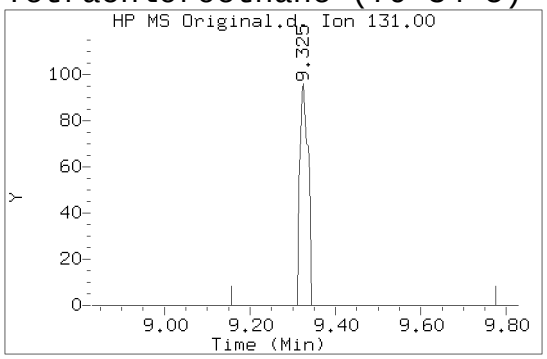
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Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

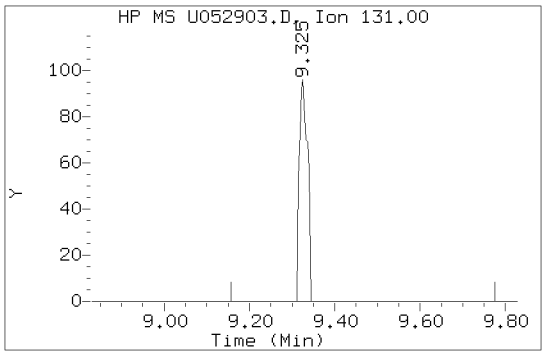
BEFORE

MASS
131
AREA
132
HEIGHT
96
06-Jun-2024
17:10
s
zaid



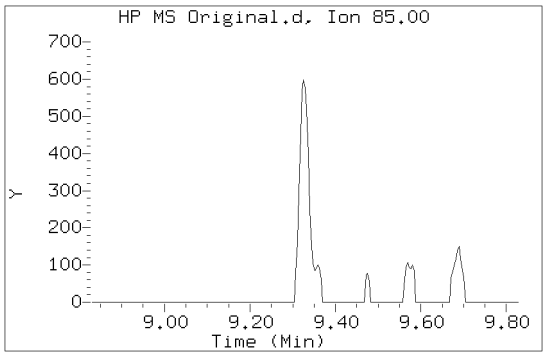
AFTER

MASS
131
AREA
132
HEIGHT
96
06-Jun-2024
17:10
s
zaid



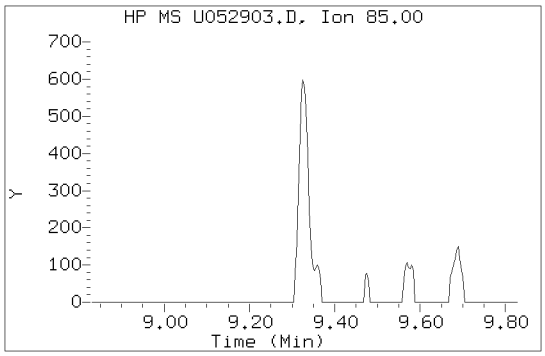
BEFORE

MASS
85
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
85
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid

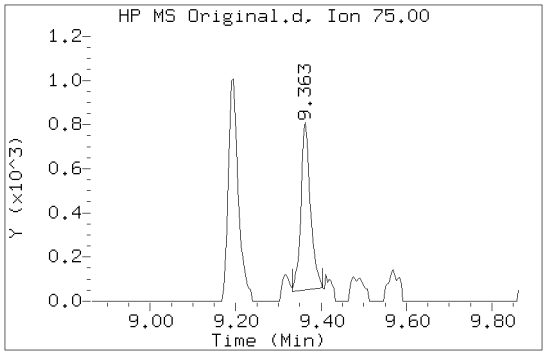


1,2,3-Trichloropropane (96-18-4)

Reason Code:

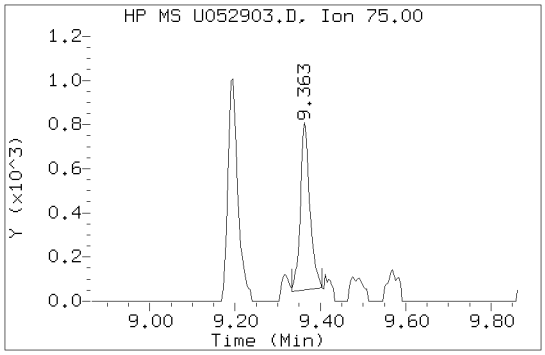
BEFORE

MASS
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AREA
1200
HEIGHT
758
06-Jun-2024
17:10
s
zaid



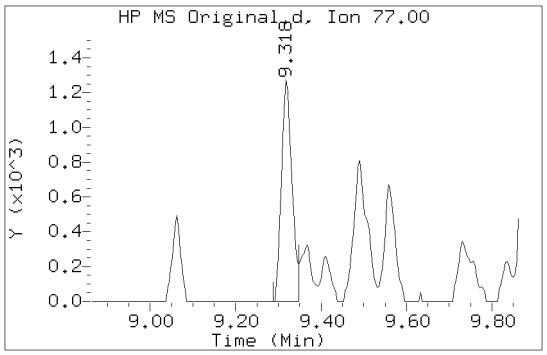
AFTER

MASS
75
AREA
1200
HEIGHT
758
06-Jun-2024
17:10
s
zaid



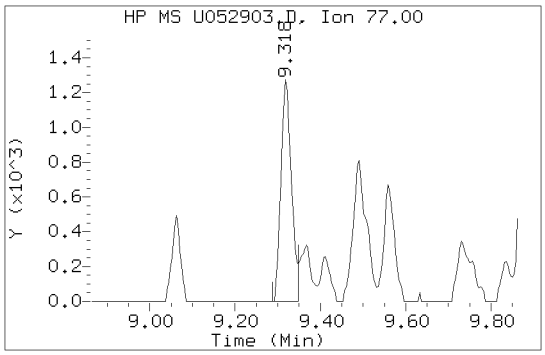
BEFORE

MASS
77
AREA
2191
HEIGHT
1274
06-Jun-2024
17:10
s
zaid



AFTER

MASS
77
AREA
2191
HEIGHT
1274
06-Jun-2024
17:10
s
zaid



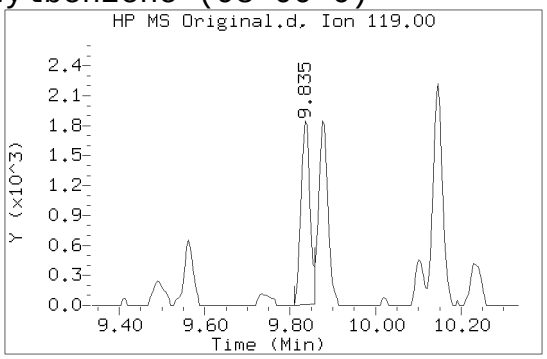
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

tert-Butylbenzene (98-06-6)

Reason Code:

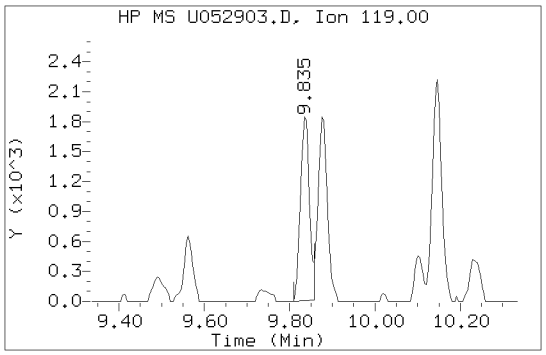
BEFORE

MASS
119
AREA
2791
HEIGHT
1843
06-Jun-2024
17:10
s
zaid



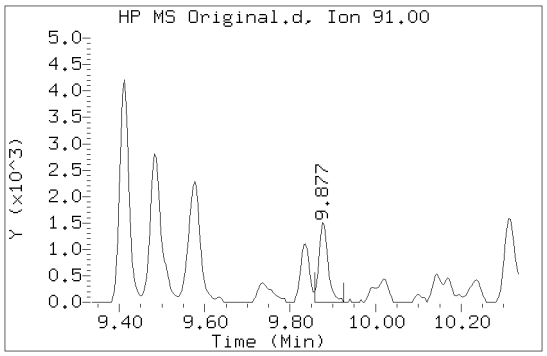
AFTER

MASS
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AREA
2791
HEIGHT
1843
06-Jun-2024
17:10
s
zaid



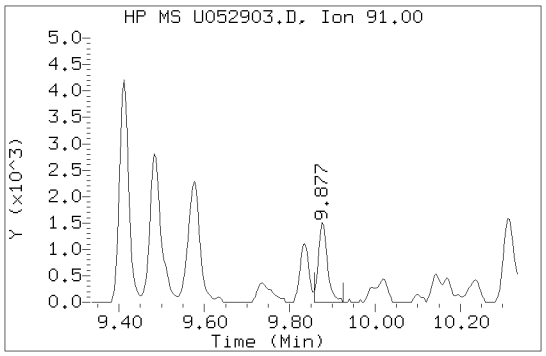
BEFORE

MASS
91
AREA
2254
HEIGHT
1507
06-Jun-2024
17:10
s
zaid



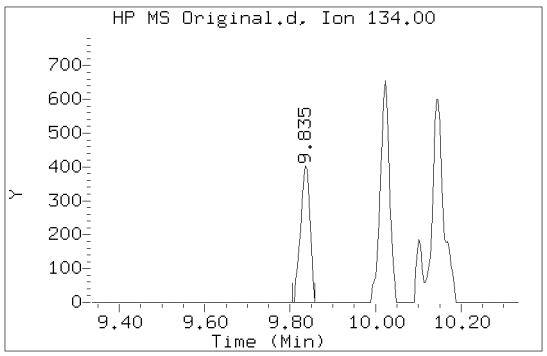
AFTER

MASS
91
AREA
2254
HEIGHT
1507
06-Jun-2024
17:10
s
zaid



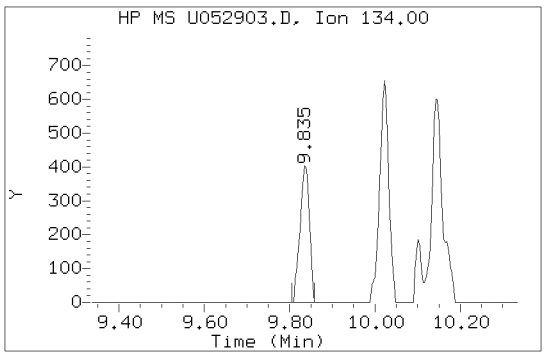
BEFORE

MASS
134
AREA
638
HEIGHT
404
06-Jun-2024
17:10
s
zaid



AFTER

MASS
134
AREA
638
HEIGHT
404
06-Jun-2024
17:10
s
zaid

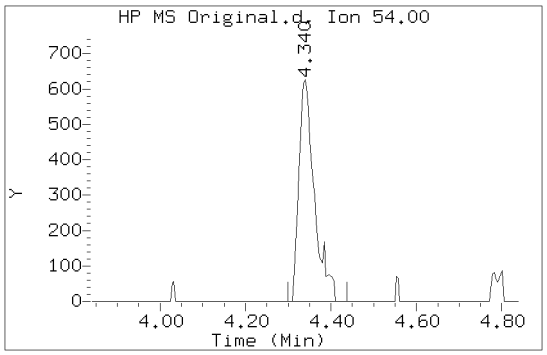


Propionitrile (107-12-0)

Reason Code:

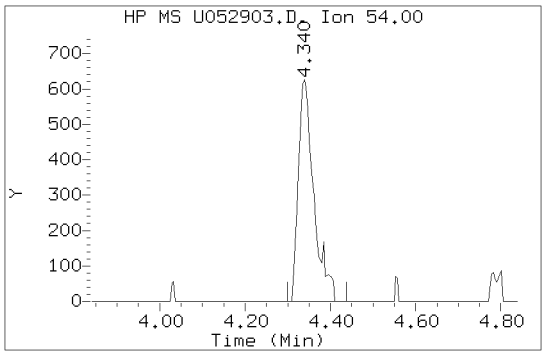
BEFORE

MASS
54
AREA
1595
HEIGHT
626
06-Jun-2024
17:10
s
zaid



AFTER

MASS
54
AREA
1595
HEIGHT
626
06-Jun-2024
17:10
s
zaid



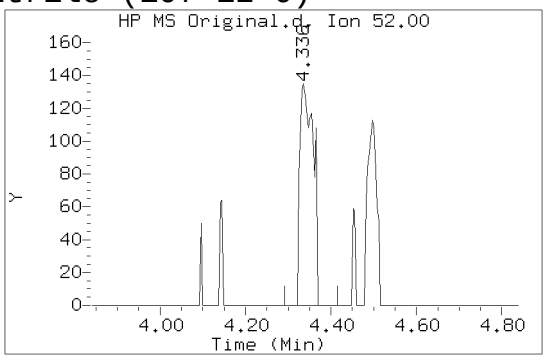
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

Propionitrile (107-12-0)

Reason Code:

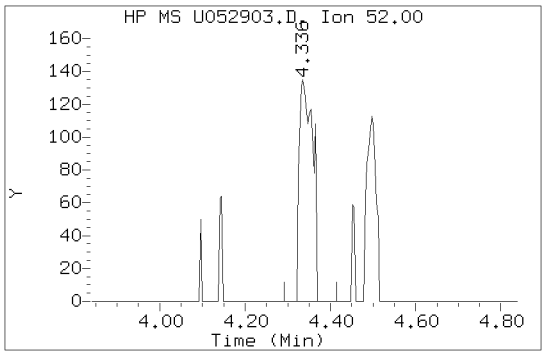
BEFORE

MASS
52
AREA
298
HEIGHT
135
06-Jun-2024
17:10
s
zaid



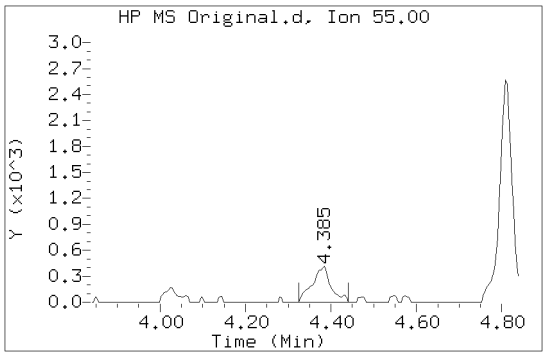
AFTER

MASS
52
AREA
298
HEIGHT
135
06-Jun-2024
17:10
s
zaid



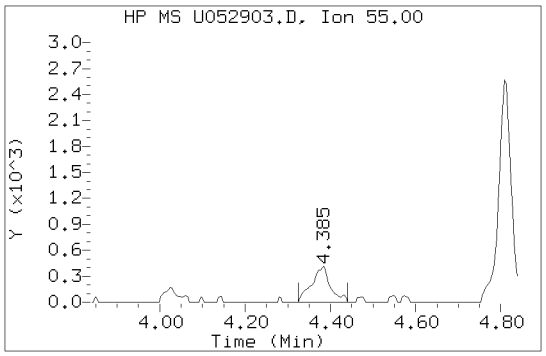
BEFORE

MASS
55
AREA
1262
HEIGHT
417
06-Jun-2024
17:10
s
zaid



AFTER

MASS
55
AREA
1262
HEIGHT
417
06-Jun-2024
17:10
s
zaid

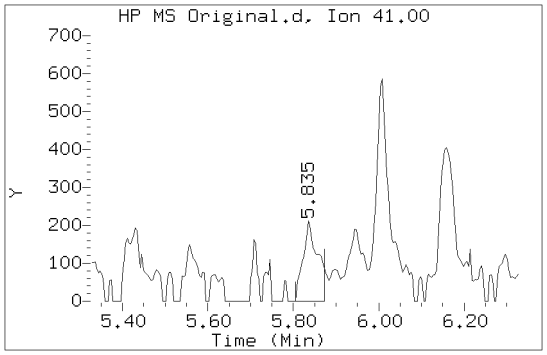


Methyl Methacrylate (80-62-6)

Reason Code:

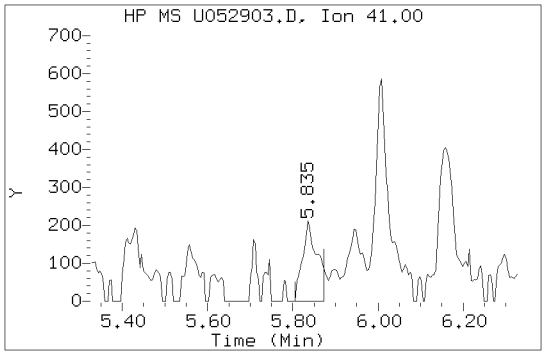
BEFORE

MASS
41
AREA
511
HEIGHT
211
06-Jun-2024
17:10
s
zaid



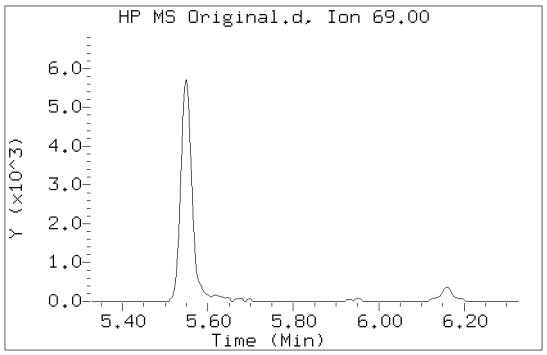
AFTER

MASS
41
AREA
511
HEIGHT
211
06-Jun-2024
17:10
s
zaid



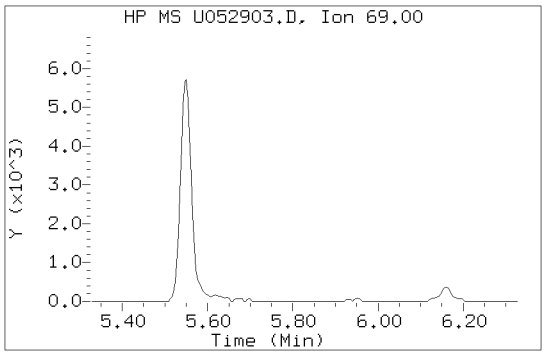
BEFORE

MASS
69
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
69
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



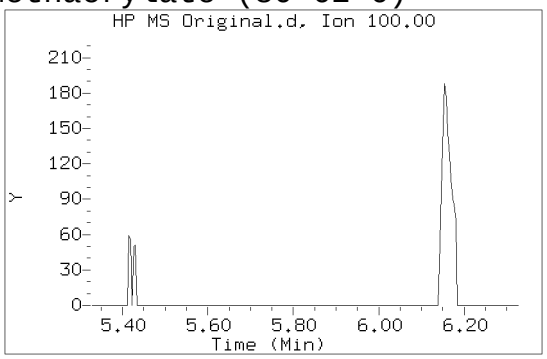
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

Methyl Methacrylate (80-62-6)

Reason Code:

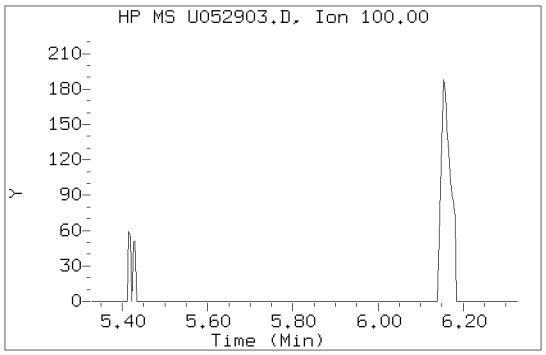
BEFORE

MASS
100
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
100
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid

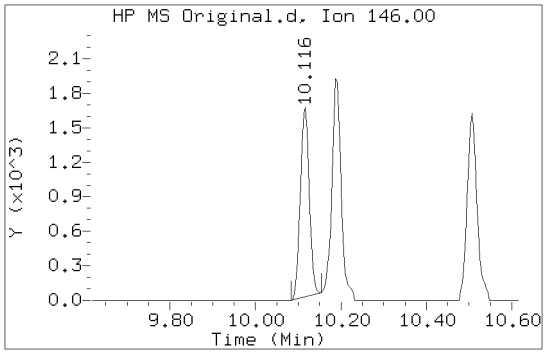


1,3-Dichlorobenzene (541-73-1)

Reason Code:

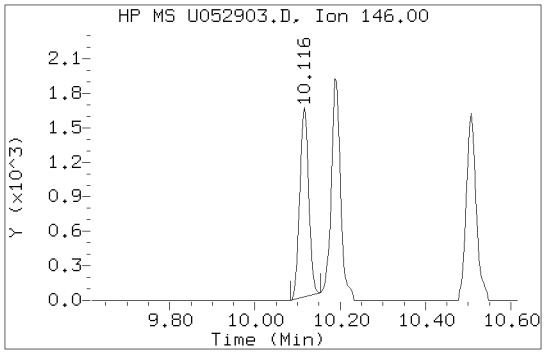
BEFORE

MASS
146
AREA
2434
HEIGHT
1644
06-Jun-2024
17:10
s
zaid



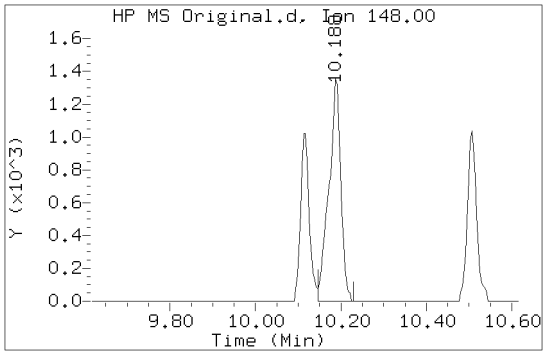
AFTER

MASS
146
AREA
2434
HEIGHT
1644
06-Jun-2024
17:10
s
zaid



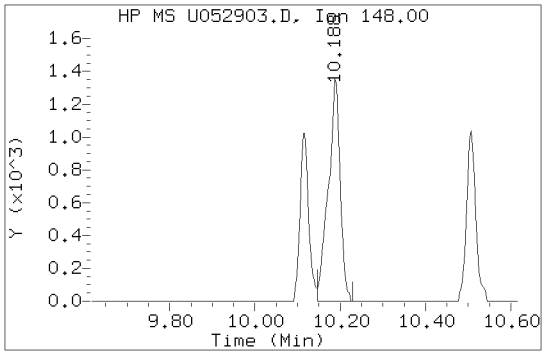
BEFORE

MASS
148
AREA
2623
HEIGHT
1354
06-Jun-2024
17:10
s
zaid



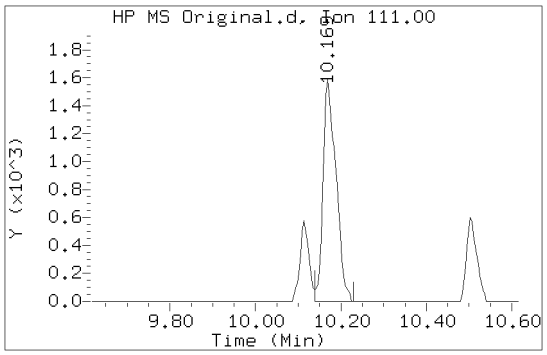
AFTER

MASS
148
AREA
2623
HEIGHT
1354
06-Jun-2024
17:10
s
zaid



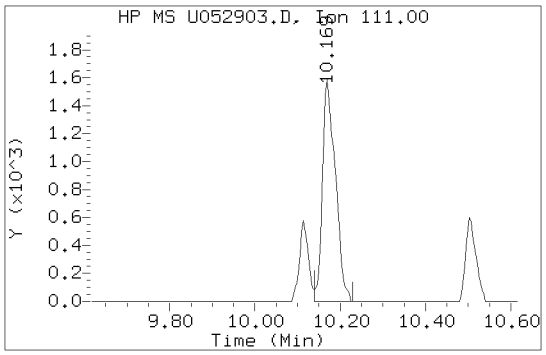
BEFORE

MASS
111
AREA
3341
HEIGHT
1586
06-Jun-2024
17:10
s
zaid



AFTER

MASS
111
AREA
3341
HEIGHT
1586
06-Jun-2024
17:10
s
zaid



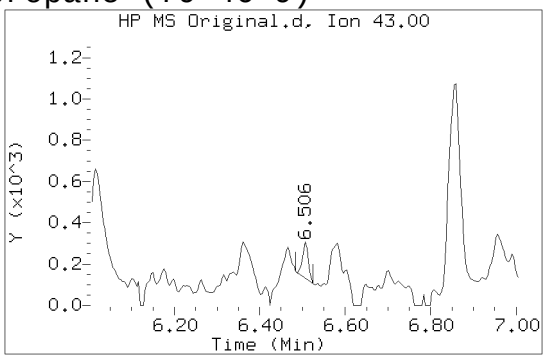
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

2-Nitropropane (79-46-9)

Reason Code:

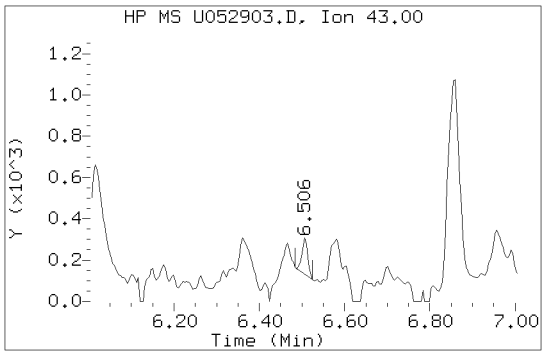
BEFORE

MASS
43
AREA
164
HEIGHT
173
06-Jun-2024
17:10
s
zaid



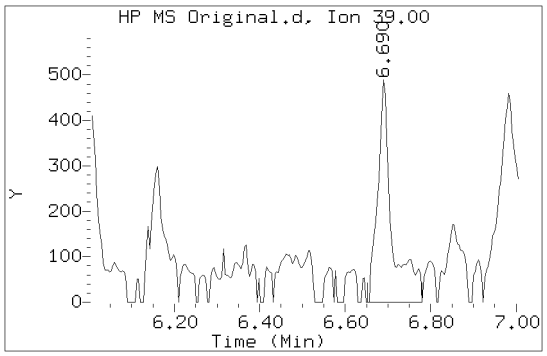
AFTER

MASS
43
AREA
164
HEIGHT
173
06-Jun-2024
17:10
s
zaid



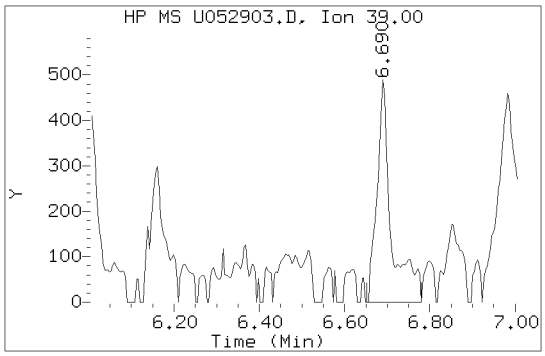
BEFORE

MASS
39
AREA
1144
HEIGHT
489
06-Jun-2024
17:10
s
zaid



AFTER

MASS
39
AREA
1144
HEIGHT
489
06-Jun-2024
17:10
s
zaid

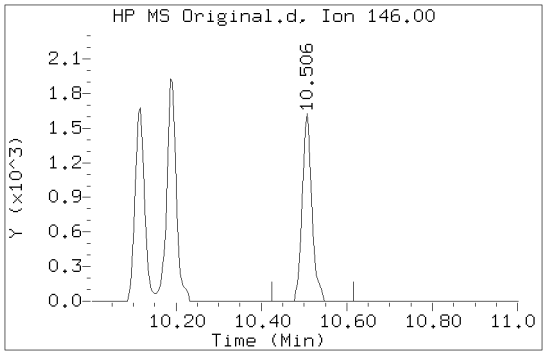


1,2-Dichlorobenzene (95-50-1)

Reason Code:

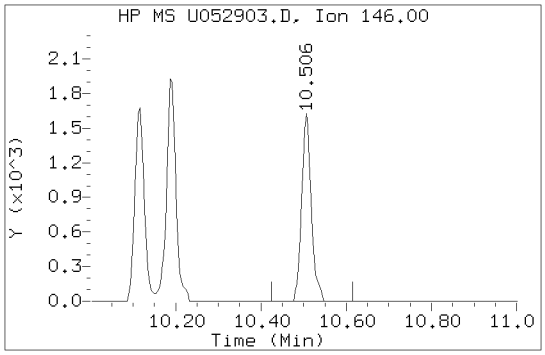
BEFORE

MASS
146
AREA
2607
HEIGHT
1628
06-Jun-2024
17:10
s
zaid



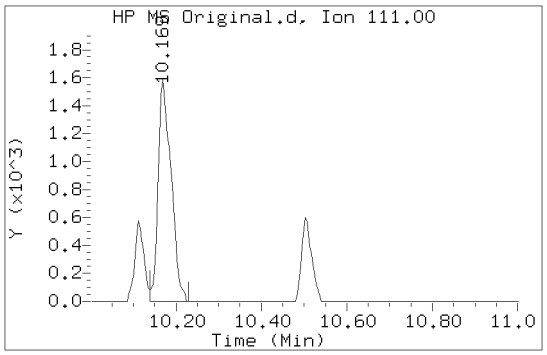
AFTER

MASS
146
AREA
2607
HEIGHT
1628
06-Jun-2024
17:10
s
zaid



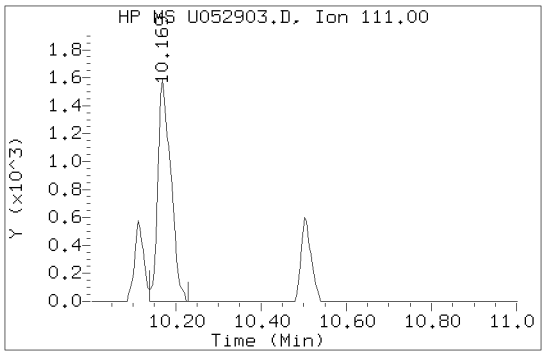
BEFORE

MASS
111
AREA
3341
HEIGHT
1586
06-Jun-2024
17:10
s
zaid



AFTER

MASS
111
AREA
3341
HEIGHT
1586
06-Jun-2024
17:10
s
zaid



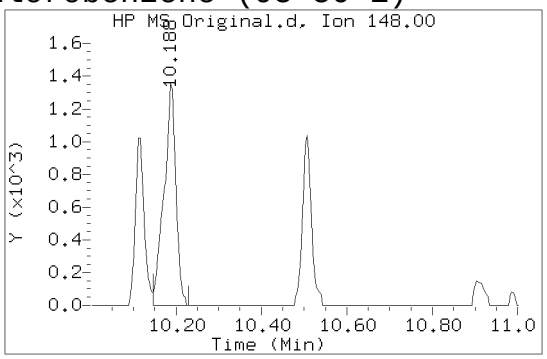
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

1,2-Dichlorobenzene (95-50-1)

Reason Code:

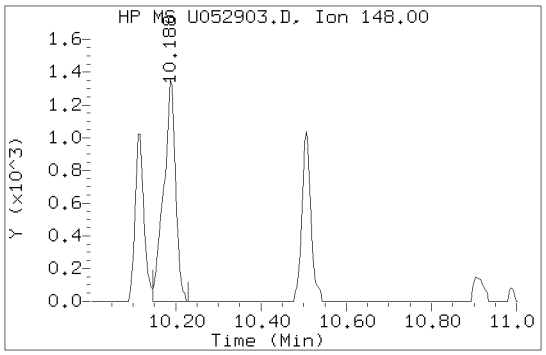
BEFORE

MASS
148
AREA
2623
HEIGHT
1354
06-Jun-2024
17:10
s
zaid



AFTER

MASS
148
AREA
2623
HEIGHT
1354
06-Jun-2024
17:10
s
zaid

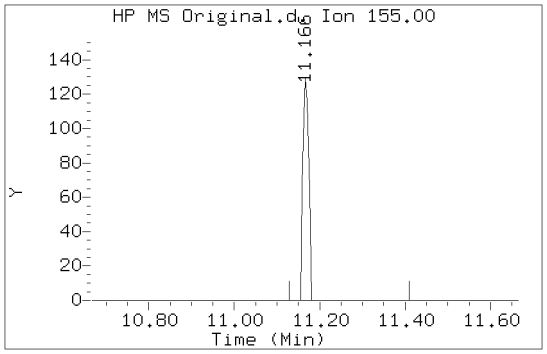


1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

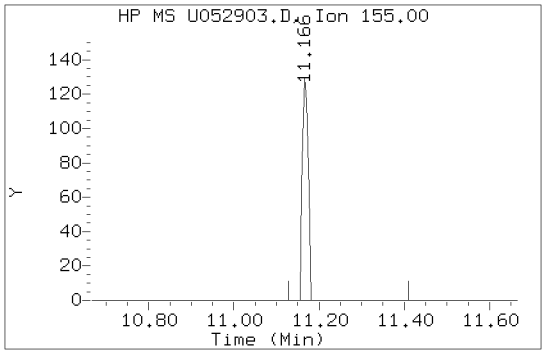
BEFORE

MASS
155
AREA
128
HEIGHT
129
06-Jun-2024
17:10
s
zaid



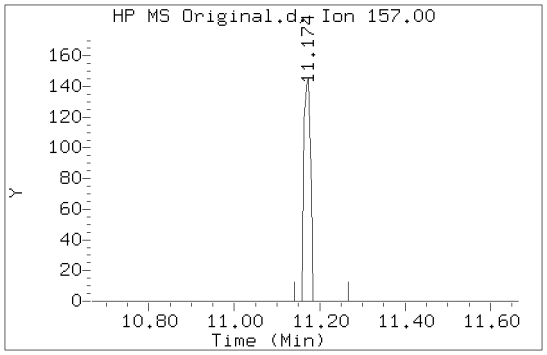
AFTER

MASS
155
AREA
128
HEIGHT
129
06-Jun-2024
17:10
s
zaid



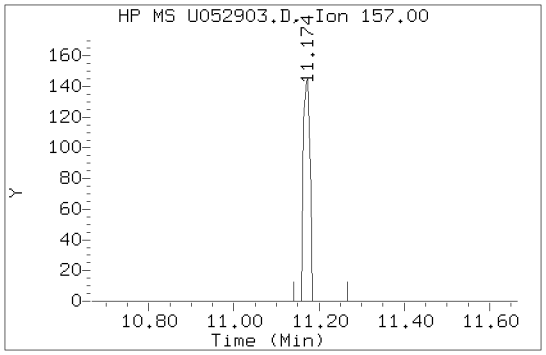
BEFORE

MASS
157
AREA
162
HEIGHT
145
06-Jun-2024
17:10
s
zaid



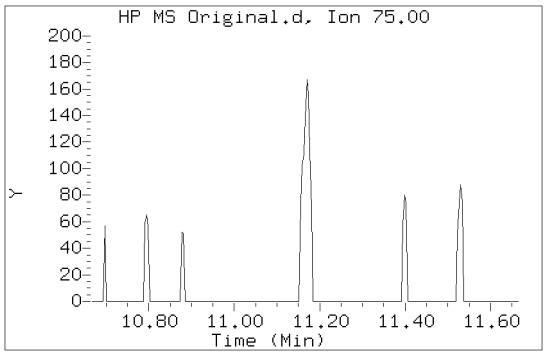
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MASS
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AREA
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HEIGHT
145
06-Jun-2024
17:10
s
zaid



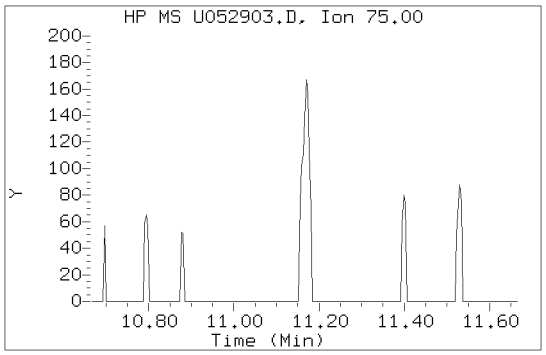
BEFORE

MASS
75
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
75
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



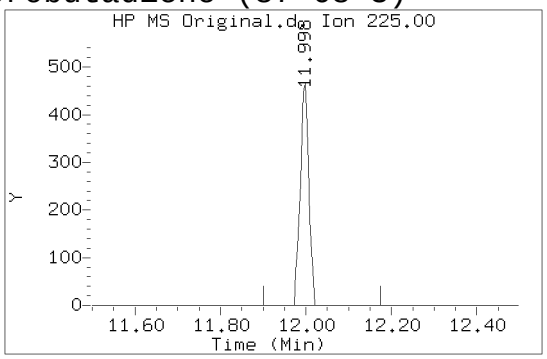
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Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

Hexachlorobutadiene (87-68-3)

Reason Code:

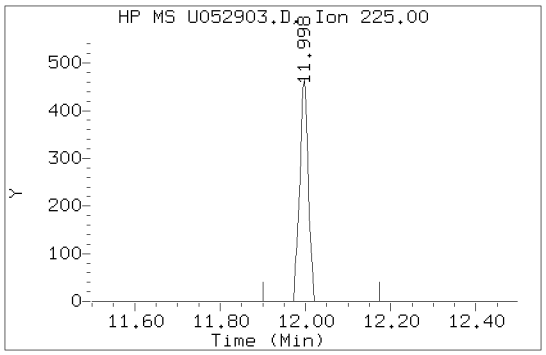
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AREA
668
HEIGHT
465
06-Jun-2024
17:10
s
zaid



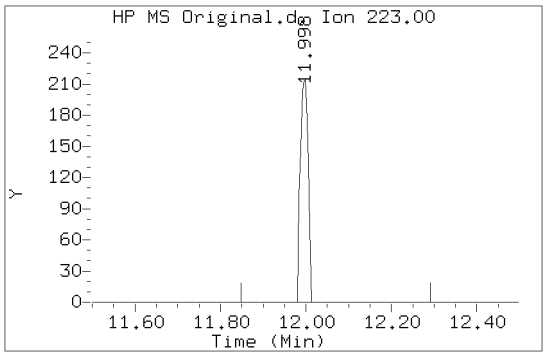
AFTER

MASS
225
AREA
668
HEIGHT
465
06-Jun-2024
17:10
s
zaid



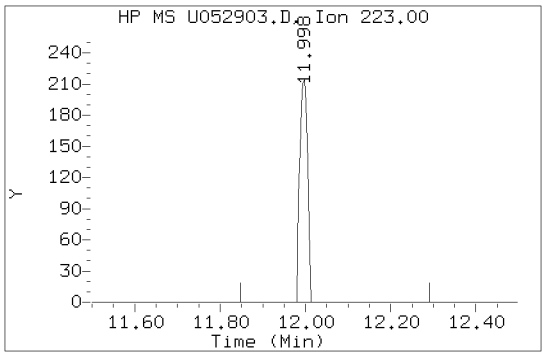
BEFORE

MASS
223
AREA
283
HEIGHT
214
06-Jun-2024
17:10
s
zaid



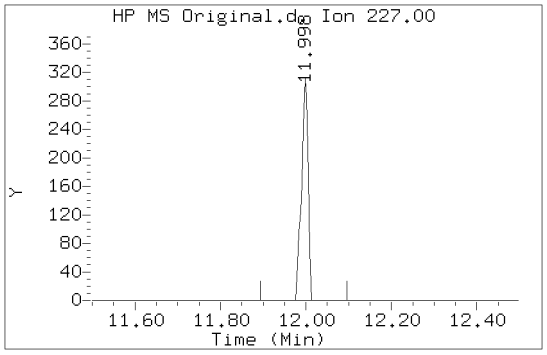
AFTER

MASS
223
AREA
283
HEIGHT
214
06-Jun-2024
17:10
s
zaid



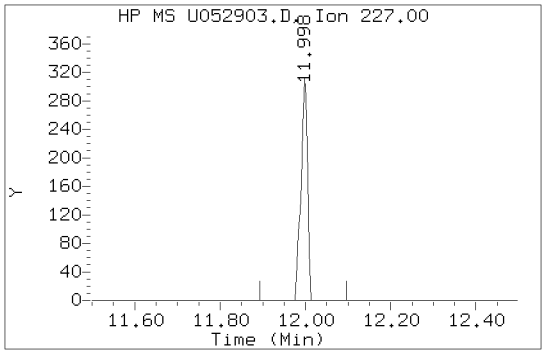
BEFORE

MASS
227
AREA
341
HEIGHT
311
06-Jun-2024
17:10
s
zaid



AFTER

MASS
227
AREA
341
HEIGHT
311
06-Jun-2024
17:10
s
zaid

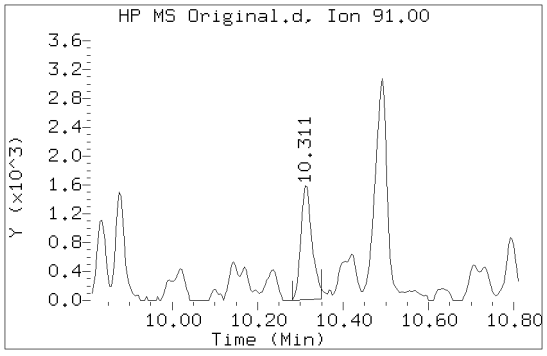


Benzyl Chloride (100-44-7)

Reason Code:

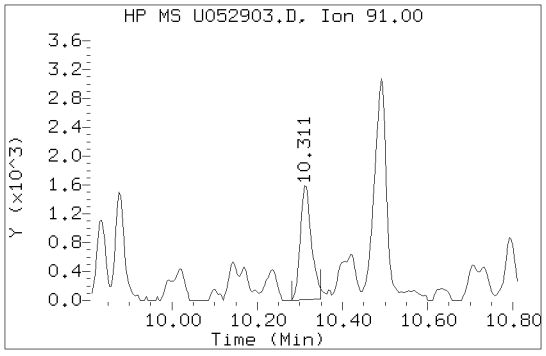
BEFORE

MASS
91
AREA
2950
HEIGHT
1579
06-Jun-2024
17:10
s
zaid



AFTER

MASS
91
AREA
2950
HEIGHT
1579
06-Jun-2024
17:10
s
zaid

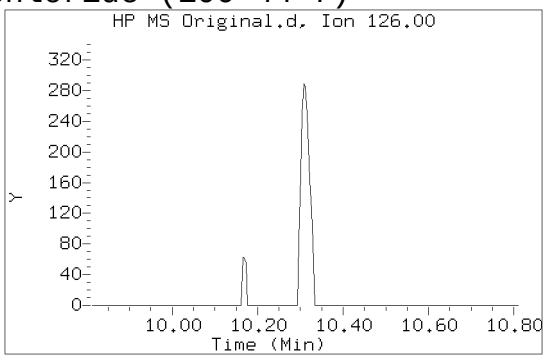


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Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

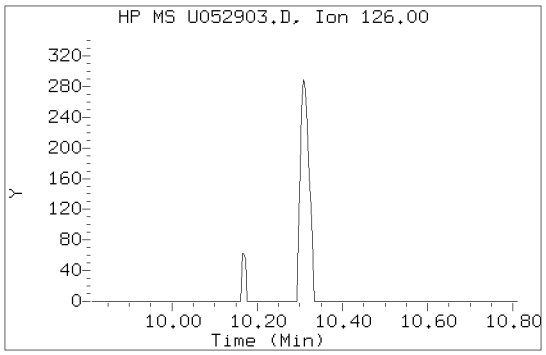
Benzyl Chloride (100-44-7)

Reason Code:

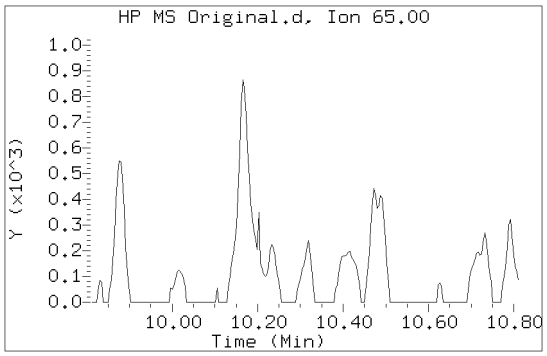
BEFORE
MASS
126
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



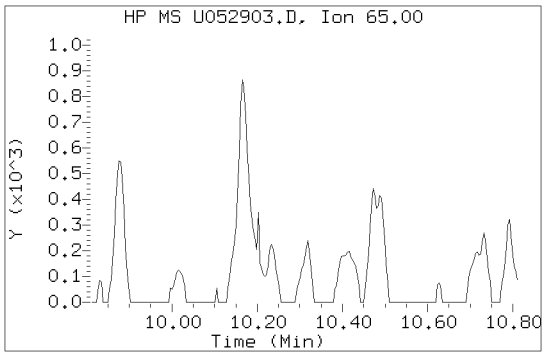
AFTER
MASS
126
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



BEFORE
MASS
65
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



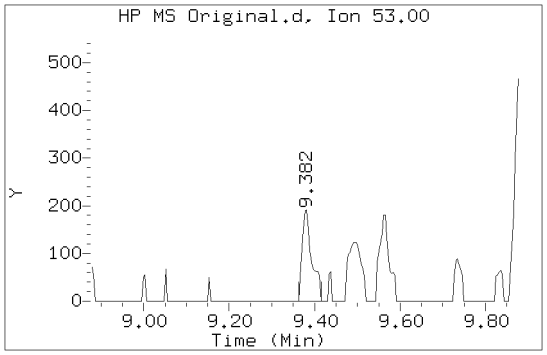
AFTER
MASS
65
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



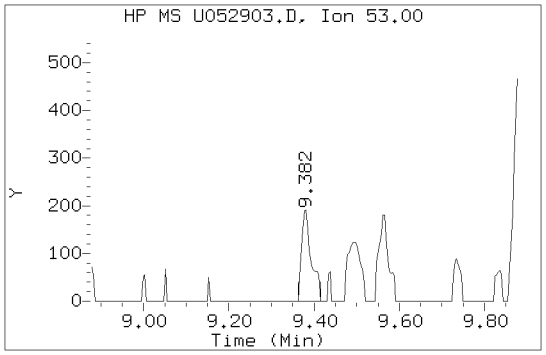
trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

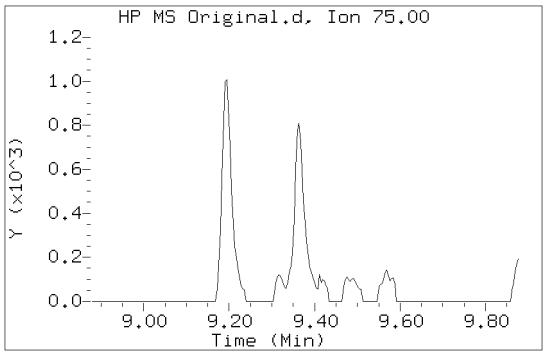
BEFORE
MASS
53
AREA
306
HEIGHT
192
06-Jun-2024
17:10
s
zaid



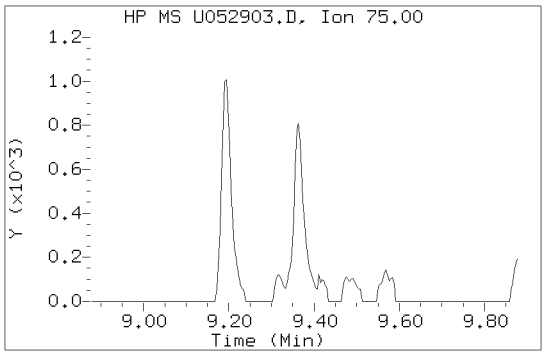
AFTER
MASS
53
AREA
306
HEIGHT
192
06-Jun-2024
17:10
s
zaid



BEFORE
MASS
75
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER
MASS
75
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



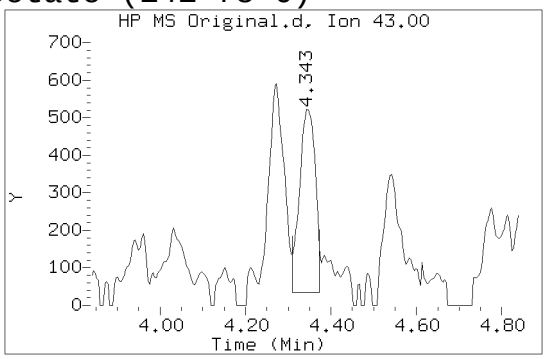
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

Ethyl Acetate (141-78-6)

Reason Code:

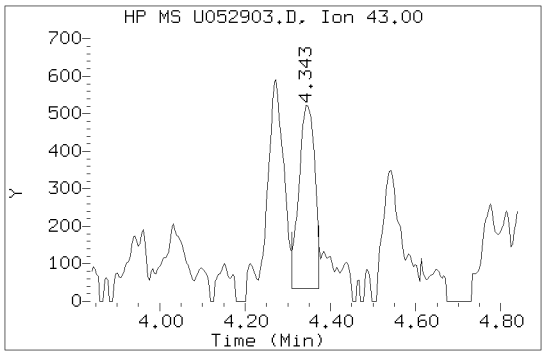
BEFORE

MASS
43
AREA
1284
HEIGHT
488
06-Jun-2024
17:10
s
zaid



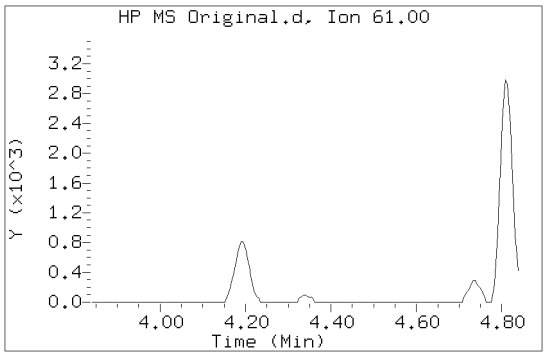
AFTER

MASS
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AREA
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HEIGHT
488
06-Jun-2024
17:10
s
zaid



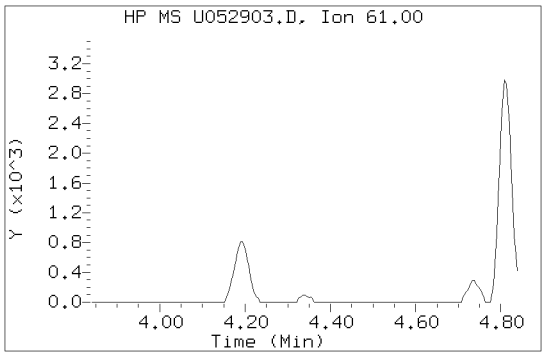
BEFORE

MASS
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AREA
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HEIGHT
0
06-Jun-2024
17:10
s
zaid



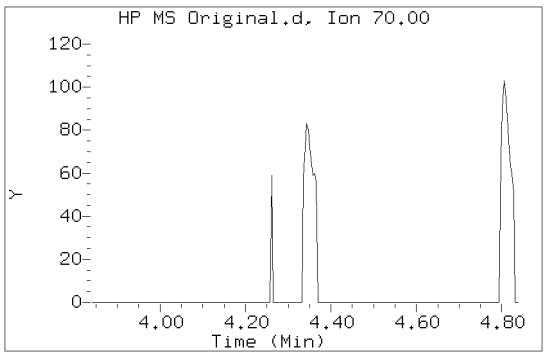
AFTER

MASS
61
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



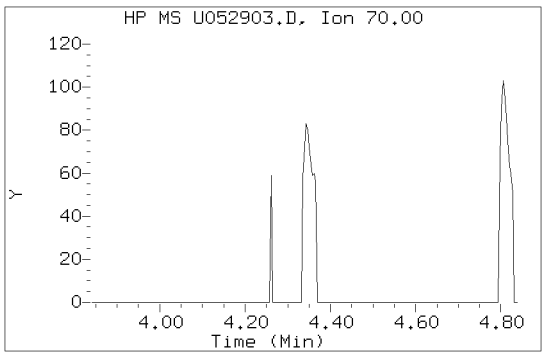
BEFORE

MASS
70
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
70
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid

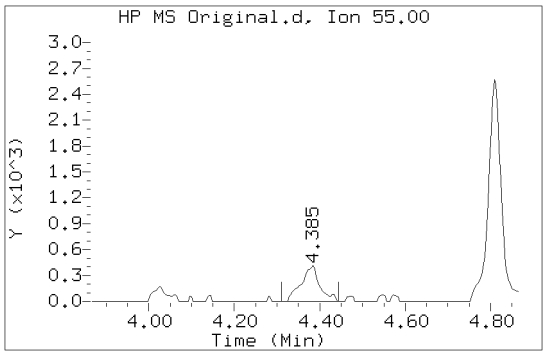


Methyl Acrylate (96-33-3)

Reason Code:

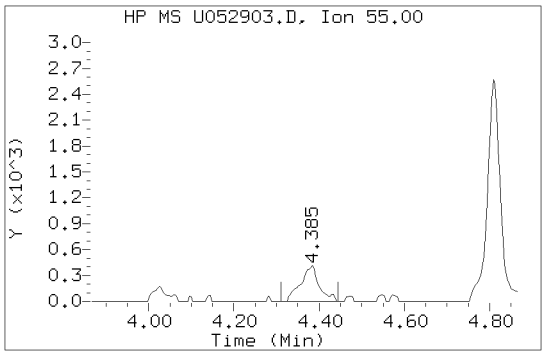
BEFORE

MASS
55
AREA
1262
HEIGHT
417
06-Jun-2024
17:10
s
zaid



AFTER

MASS
55
AREA
1262
HEIGHT
417
06-Jun-2024
17:10
s
zaid



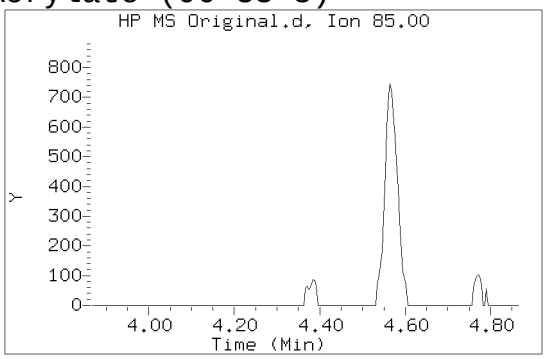
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Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

Methyl Acrylate (96-33-3)

Reason Code:

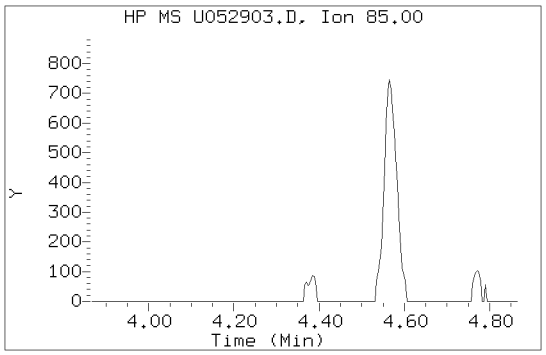
BEFORE

MASS
85
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
85
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid

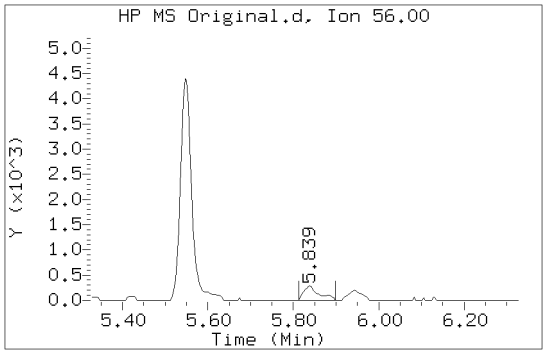


n-Butanol (71-36-3)

Reason Code:

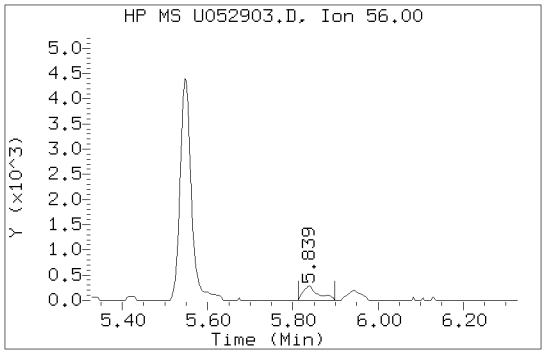
BEFORE

MASS
56
AREA
701
HEIGHT
286
06-Jun-2024
17:10
s
zaid



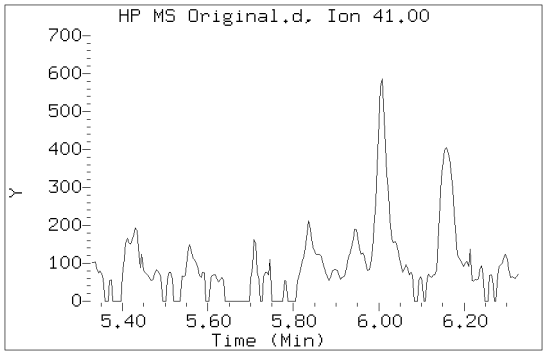
AFTER

MASS
56
AREA
701
HEIGHT
286
06-Jun-2024
17:10
s
zaid



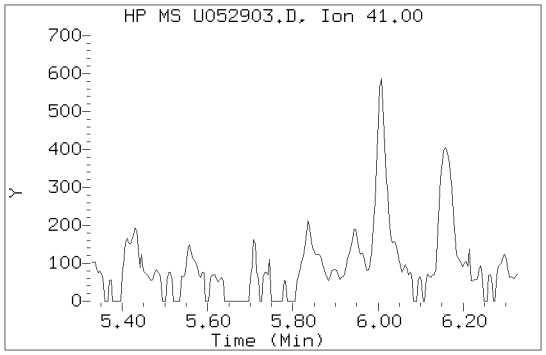
BEFORE

MASS
41
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
41
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid

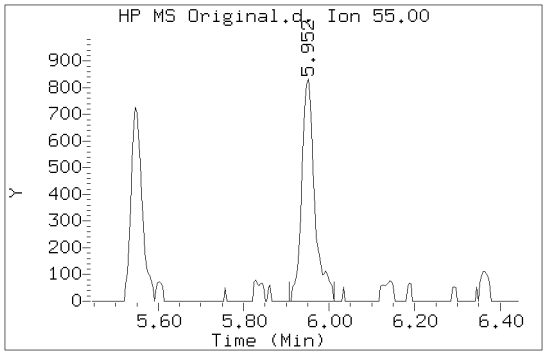


Ethyl Acrylate (140-88-5)

Reason Code:

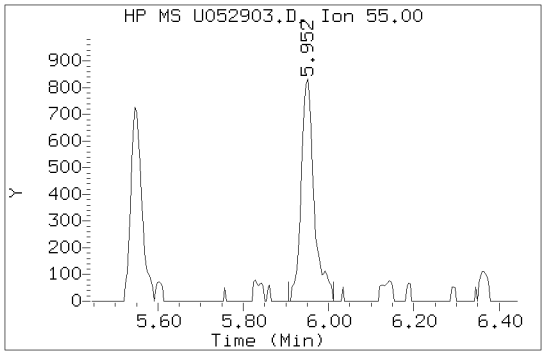
BEFORE

MASS
55
AREA
1801
HEIGHT
833
06-Jun-2024
17:10
s
zaid



AFTER

MASS
55
AREA
1801
HEIGHT
833
06-Jun-2024
17:10
s
zaid



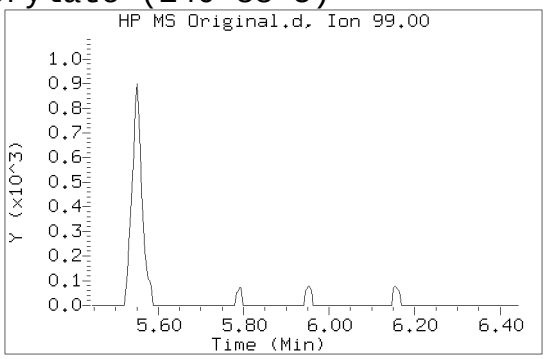
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

Ethyl Acrylate (140-88-5)

Reason Code:

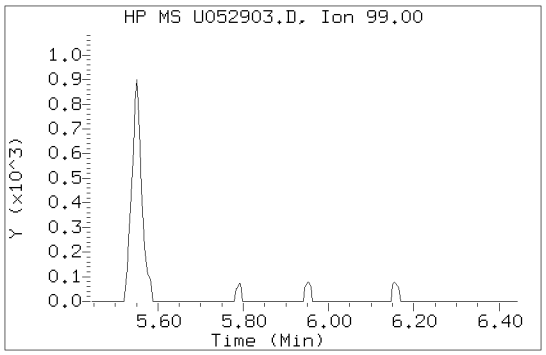
BEFORE

MASS
99
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
99
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid

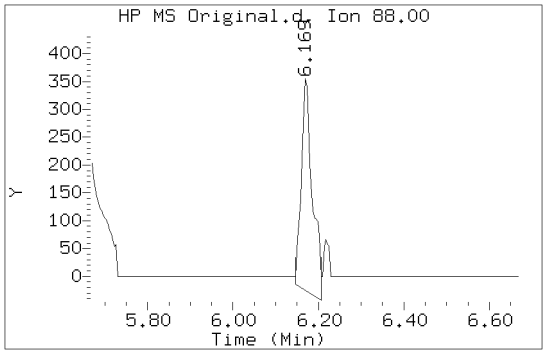


1,4-Dioxane ()

Reason Code:

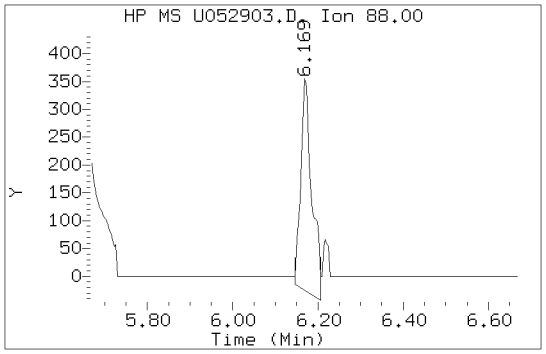
BEFORE

MASS
88
AREA
700
HEIGHT
379
06-Jun-2024
17:10
s
zaid



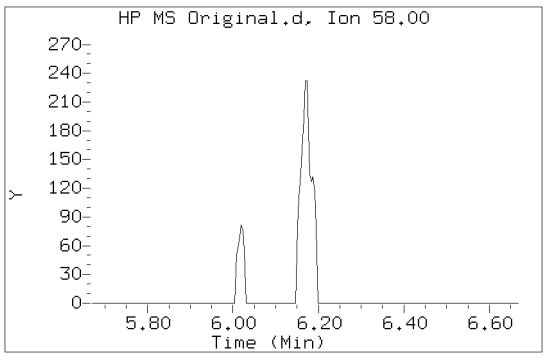
AFTER

MASS
88
AREA
700
HEIGHT
379
06-Jun-2024
17:10
s
zaid



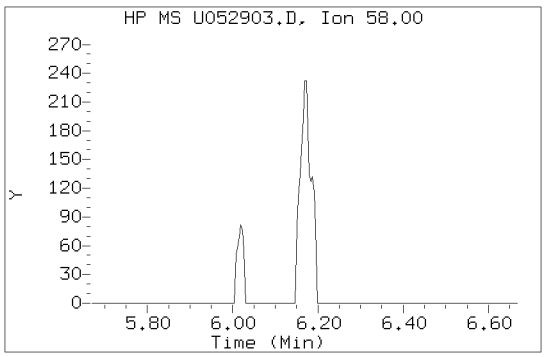
BEFORE

MASS
58
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
58
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid

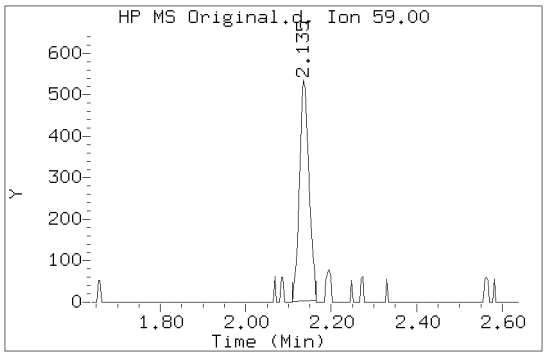


Diethyl ether (60-29-7)

Reason Code:

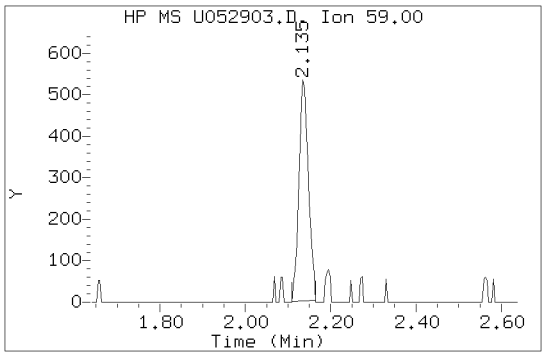
BEFORE

MASS
59
AREA
846
HEIGHT
533
06-Jun-2024
17:10
s
zaid



AFTER

MASS
59
AREA
846
HEIGHT
533
06-Jun-2024
17:10
s
zaid

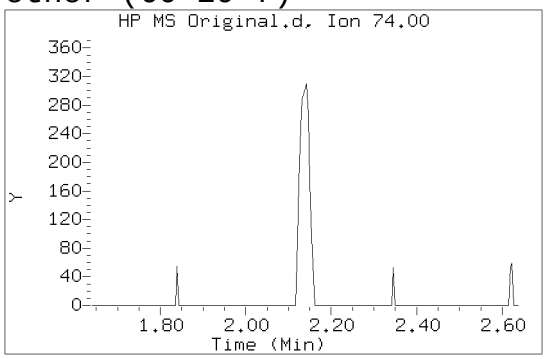


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

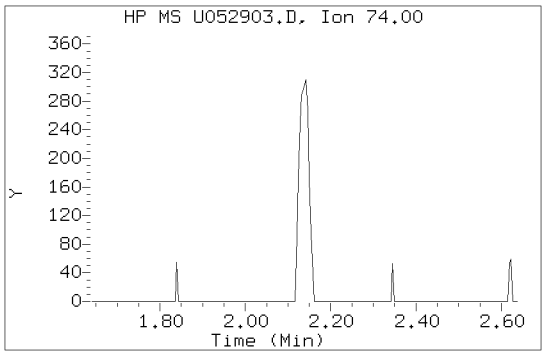
Diethyl ether (60-29-7)

Reason Code:

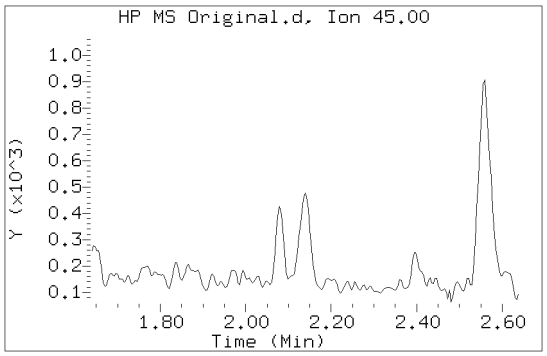
BEFORE
MASS
74
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



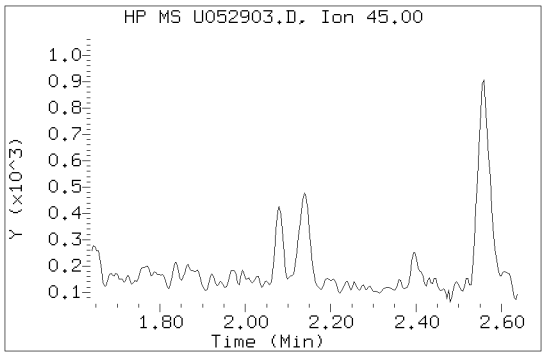
AFTER
MASS
74
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



BEFORE
MASS
45
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



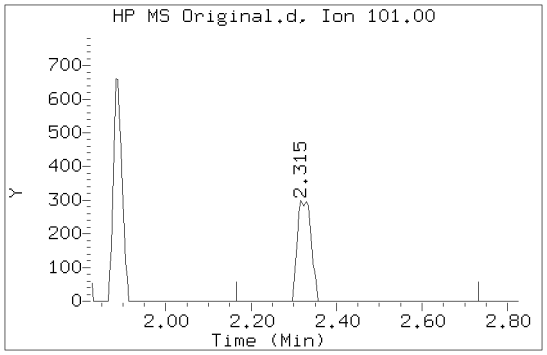
AFTER
MASS
45
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



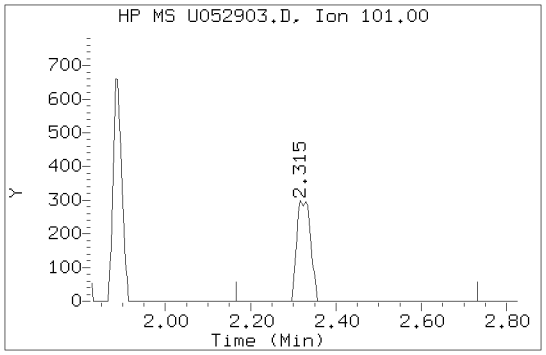
Freon TF (76-13-1)

Reason Code:

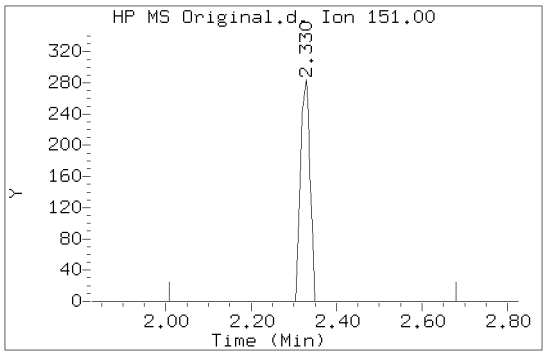
BEFORE
MASS
101
AREA
683
HEIGHT
299
06-Jun-2024
17:10
s
zaid



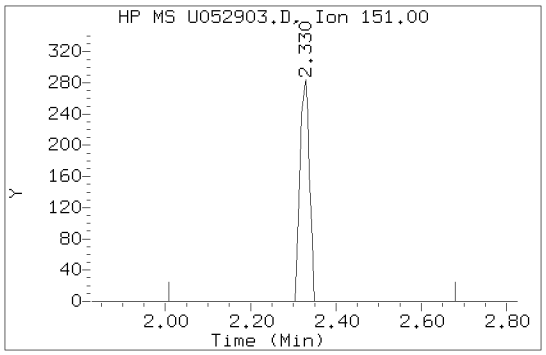
AFTER
MASS
101
AREA
683
HEIGHT
299
06-Jun-2024
17:10
s
zaid



BEFORE
MASS
151
AREA
450
HEIGHT
284
06-Jun-2024
17:10
s
zaid



AFTER
MASS
151
AREA
450
HEIGHT
284
06-Jun-2024
17:10
s
zaid

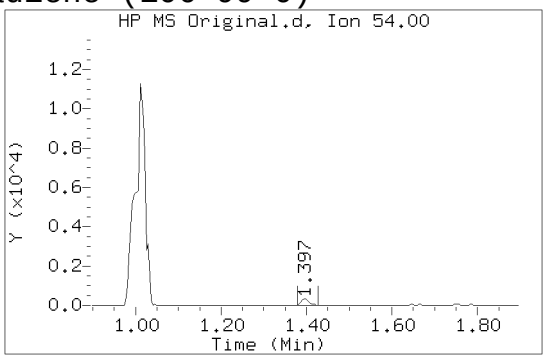


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

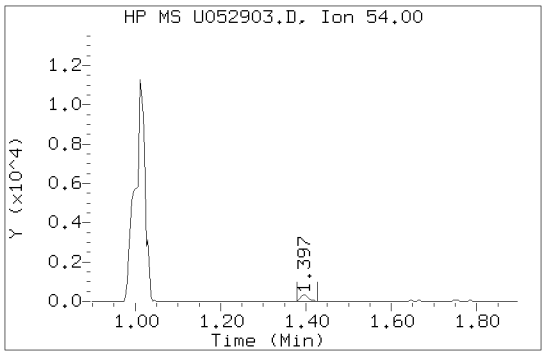
1,3-Butadiene (106-99-0)

Reason Code:

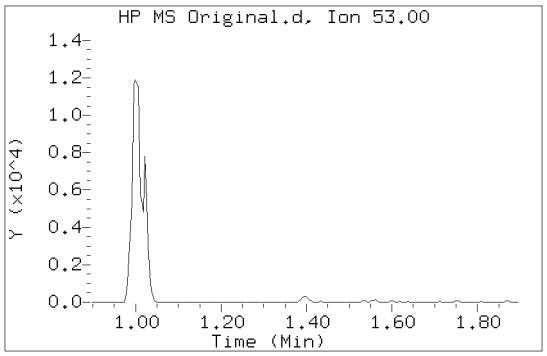
BEFORE
MASS
54
AREA
441
HEIGHT
341
06-Jun-2024
17:10
s
zaid



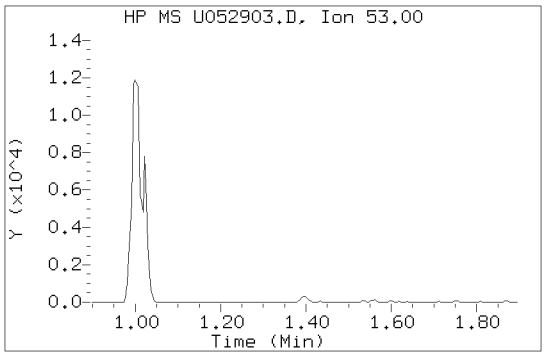
AFTER
MASS
54
AREA
441
HEIGHT
341
06-Jun-2024
17:10
s
zaid



BEFORE
MASS
53
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



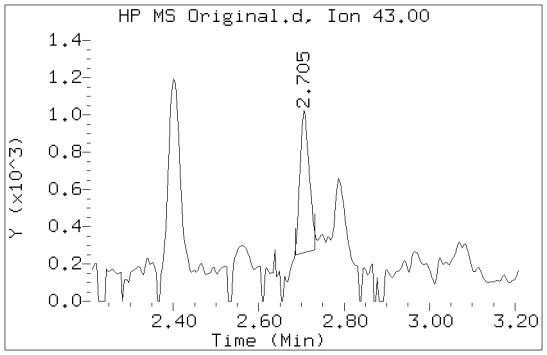
AFTER
MASS
53
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



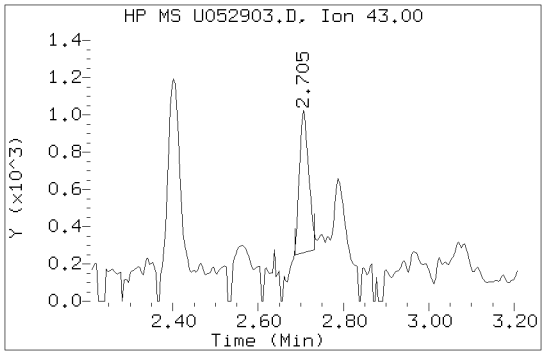
Methyl acetate (79-20-9)

Reason Code:

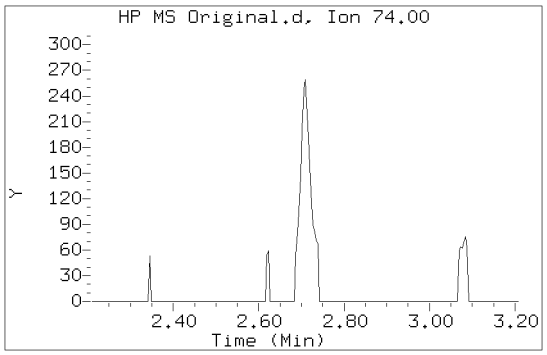
BEFORE
MASS
43
AREA
1181
HEIGHT
764
06-Jun-2024
17:10
s
zaid



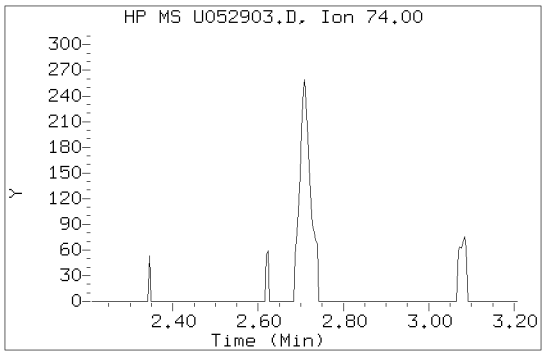
AFTER
MASS
43
AREA
1181
HEIGHT
764
06-Jun-2024
17:10
s
zaid



BEFORE
MASS
74
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER
MASS
74
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



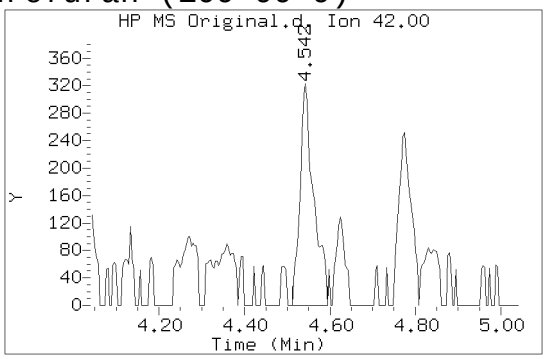
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

Tetrahydrofuran (109-99-9)

Reason Code:

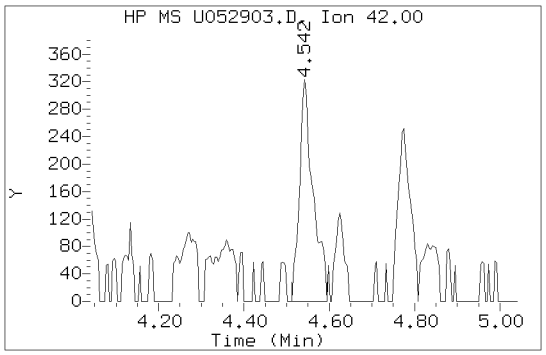
BEFORE

MASS
42
AREA
723
HEIGHT
323
06-Jun-2024
17:10
s
zaid



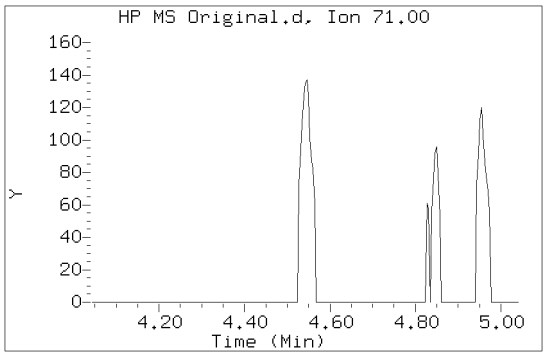
AFTER

MASS
42
AREA
723
HEIGHT
323
06-Jun-2024
17:10
s
zaid



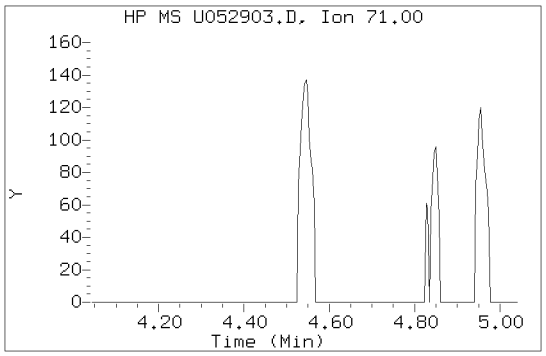
BEFORE

MASS
71
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
71
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid

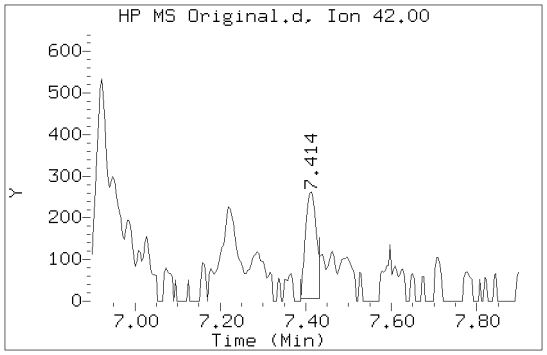


Amyl alcohol (71-41-0)

Reason Code:

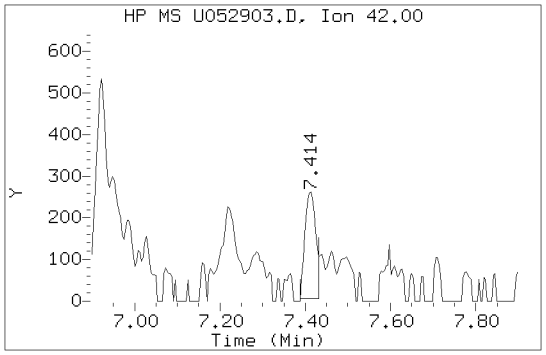
BEFORE

MASS
42
AREA
468
HEIGHT
257
06-Jun-2024
17:10
s
zaid



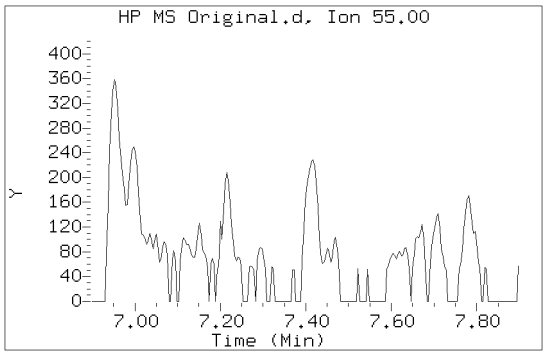
AFTER

MASS
42
AREA
468
HEIGHT
257
06-Jun-2024
17:10
s
zaid



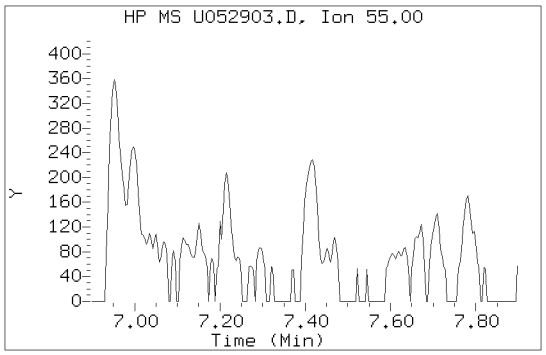
BEFORE

MASS
55
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
55
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



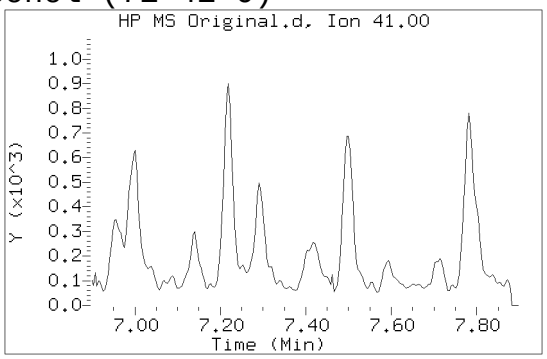
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

Amyl alcohol (71-41-0)

Reason Code:

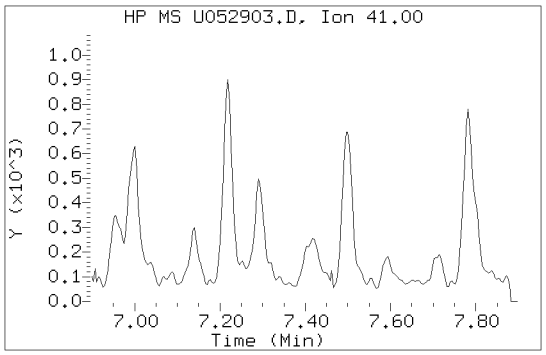
BEFORE

MASS
41
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
41
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid

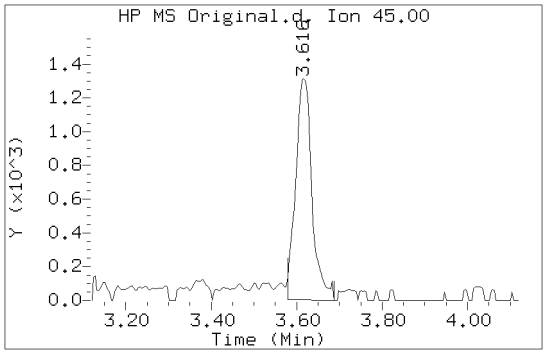


Diisopropyl ether (108-20-3)

Reason Code:

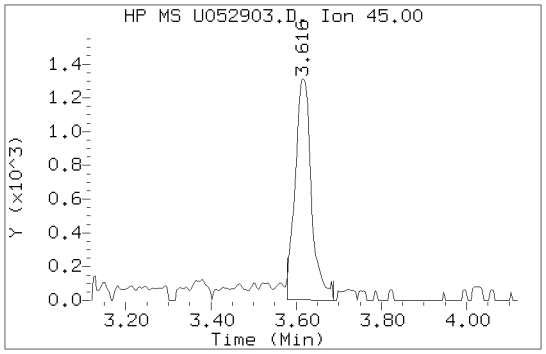
BEFORE

MASS
45
AREA
3553
HEIGHT
1312
06-Jun-2024
17:10
s
zaid



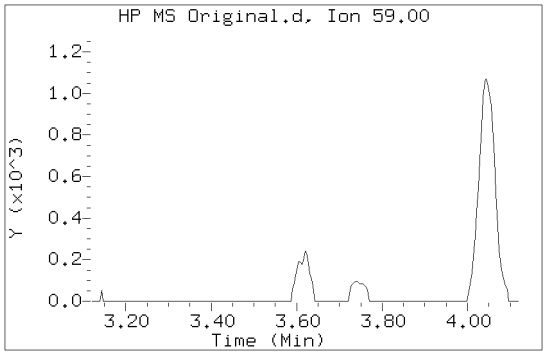
AFTER

MASS
45
AREA
3553
HEIGHT
1312
06-Jun-2024
17:10
s
zaid



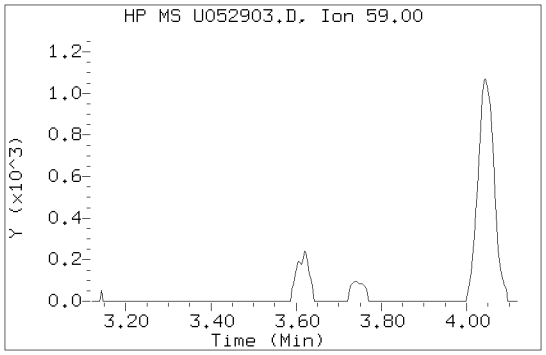
BEFORE

MASS
59
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



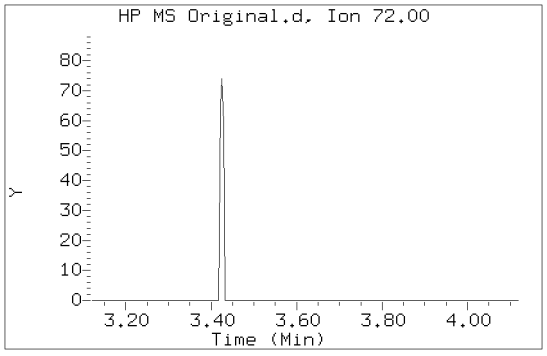
AFTER

MASS
59
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



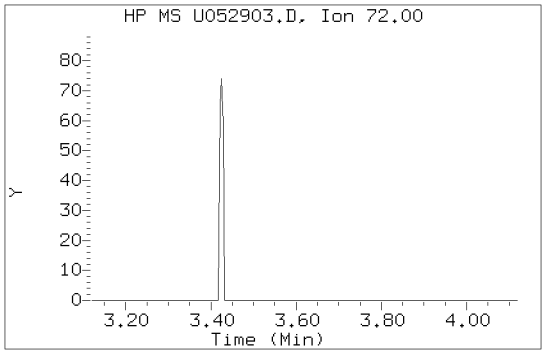
BEFORE

MASS
72
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
72
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid

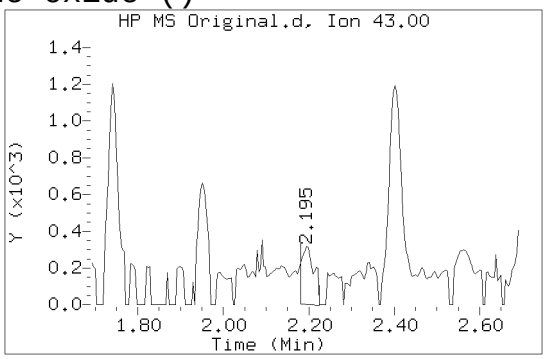


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

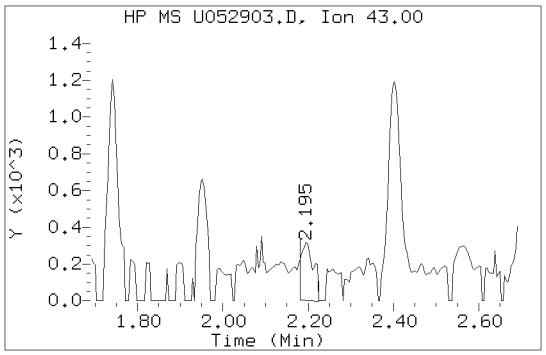
Propylene oxide ()

Reason Code:

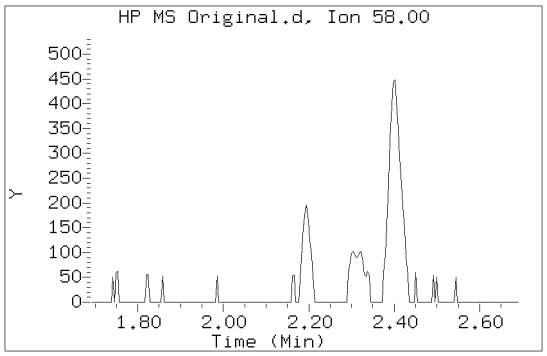
BEFORE
MASS
43
AREA
651
HEIGHT
315
06-Jun-2024
17:10
s
zaid



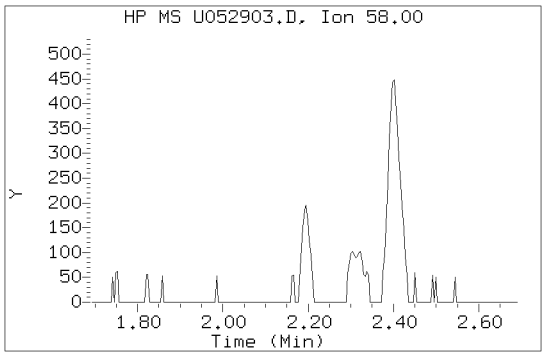
AFTER
MASS
43
AREA
651
HEIGHT
315
06-Jun-2024
17:10
s
zaid



BEFORE
MASS
58
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



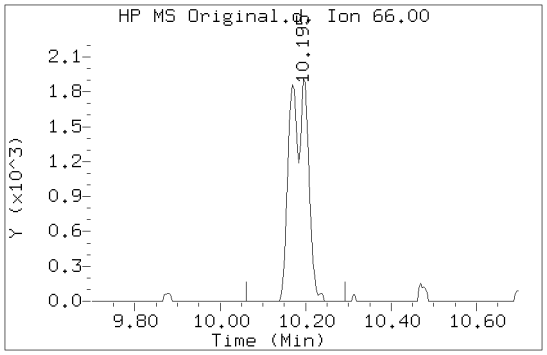
AFTER
MASS
58
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



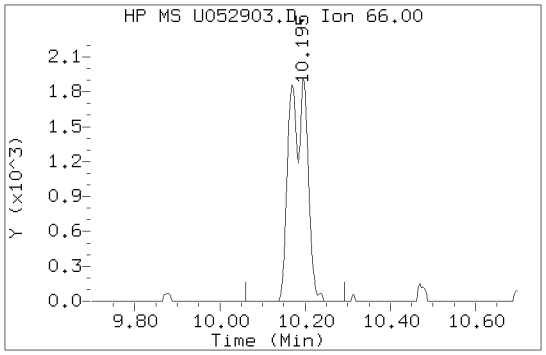
Dicyclopentadiene (77-73-6)

Reason Code:

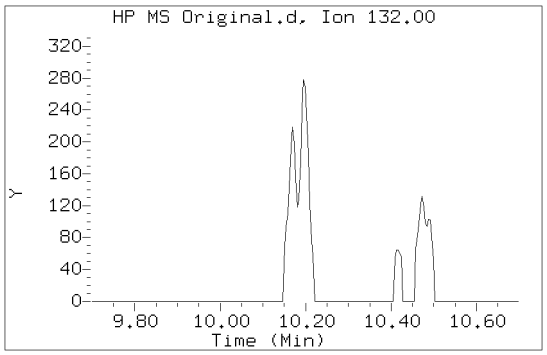
BEFORE
MASS
66
AREA
5765
HEIGHT
1911
06-Jun-2024
17:10
s
zaid



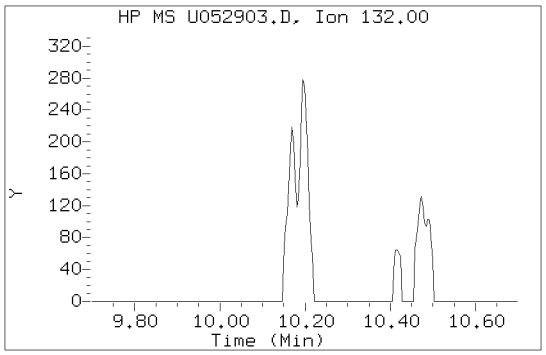
AFTER
MASS
66
AREA
5765
HEIGHT
1911
06-Jun-2024
17:10
s
zaid



BEFORE
MASS
132
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER
MASS
132
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid

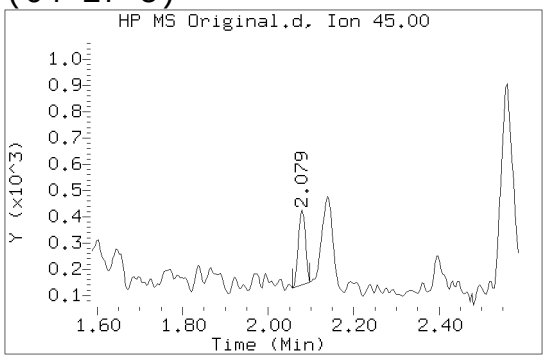


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

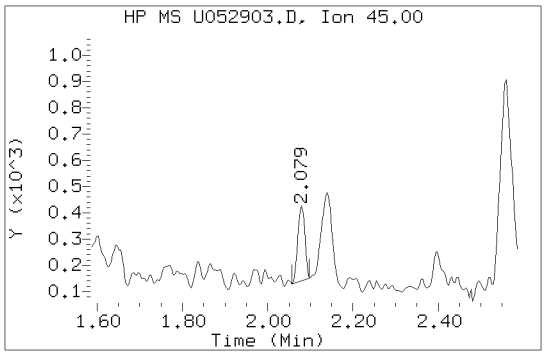
Ethanol (64-17-5)

Reason Code:

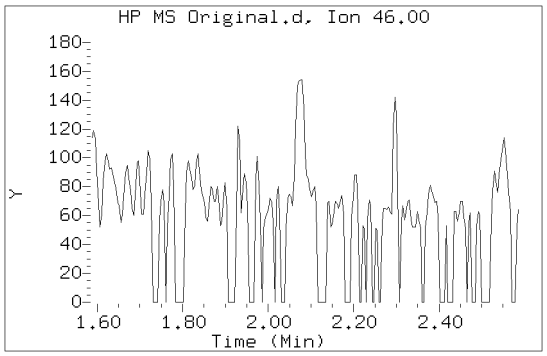
BEFORE
MASS
45
AREA
339
HEIGHT
286
06-Jun-2024
17:10
s
zaid



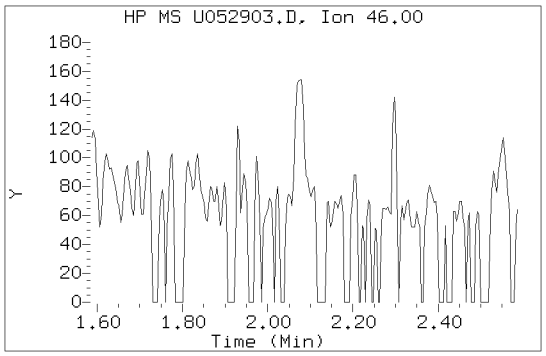
AFTER
MASS
45
AREA
339
HEIGHT
286
06-Jun-2024
17:10
s
zaid



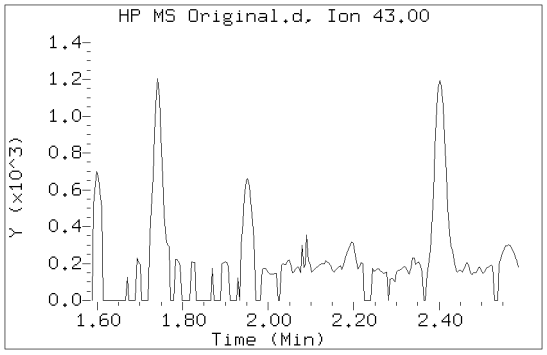
BEFORE
MASS
46
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



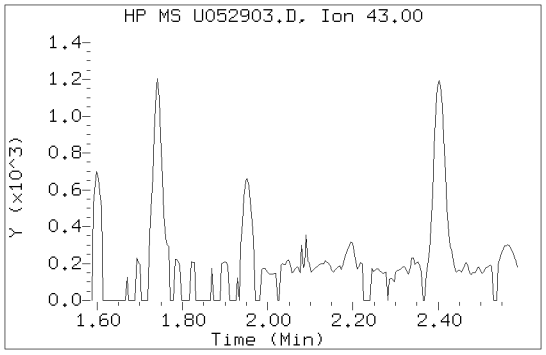
AFTER
MASS
46
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



BEFORE
MASS
43
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



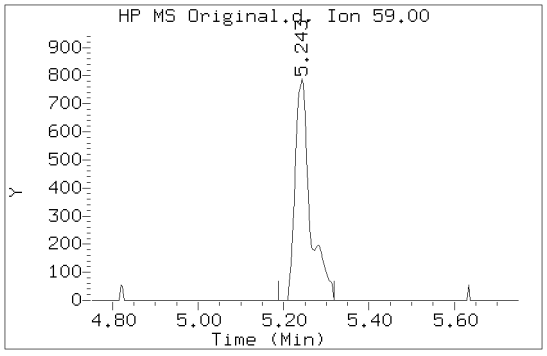
AFTER
MASS
43
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



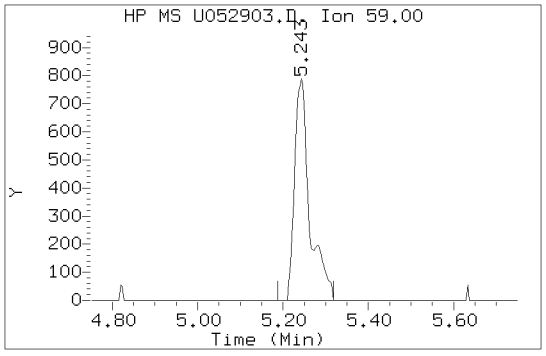
tert-Butyl formate (762-75-4)

Reason Code:

BEFORE
MASS
59
AREA
1972
HEIGHT
789
06-Jun-2024
17:10
s
zaid



AFTER
MASS
59
AREA
1972
HEIGHT
789
06-Jun-2024
17:10
s
zaid



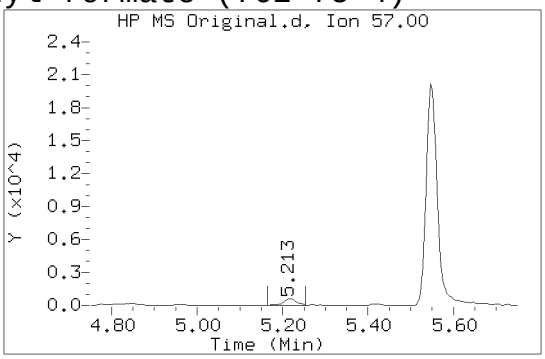
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

tert-Butyl formate (762-75-4)

Reason Code:

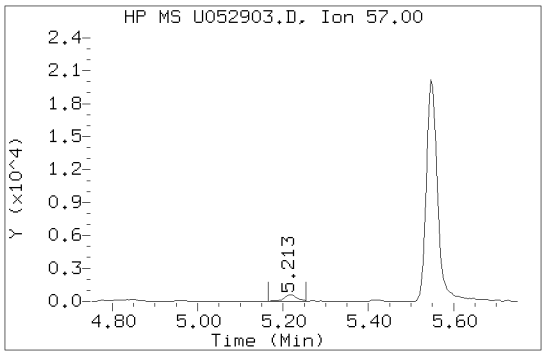
BEFORE

MASS
57
AREA
1288
HEIGHT
583
06-Jun-2024
17:10
s
zaid



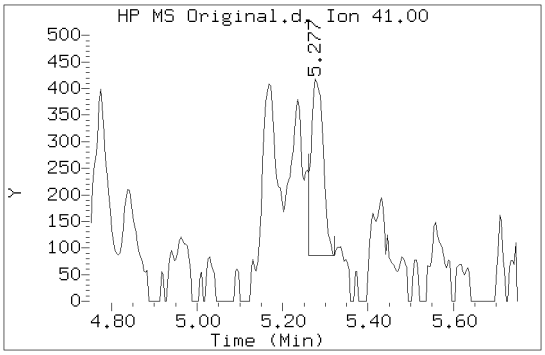
AFTER

MASS
57
AREA
1288
HEIGHT
583
06-Jun-2024
17:10
s
zaid



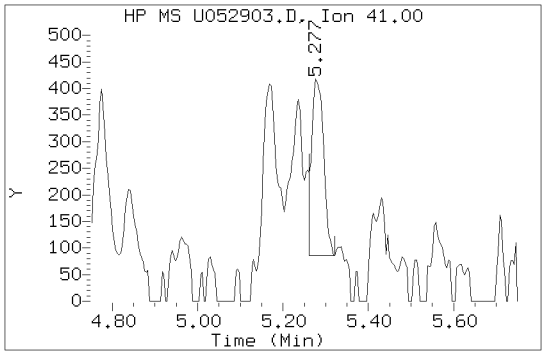
BEFORE

MASS
41
AREA
656
HEIGHT
332
06-Jun-2024
17:10
s
zaid



AFTER

MASS
41
AREA
656
HEIGHT
332
06-Jun-2024
17:10
s
zaid

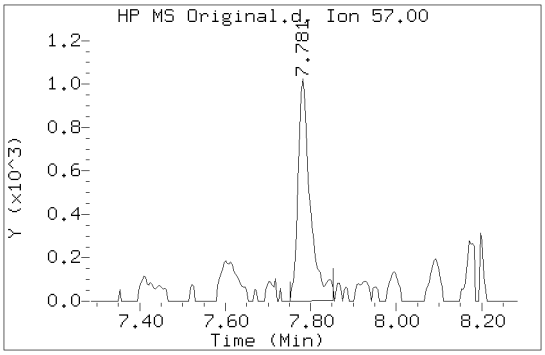


3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

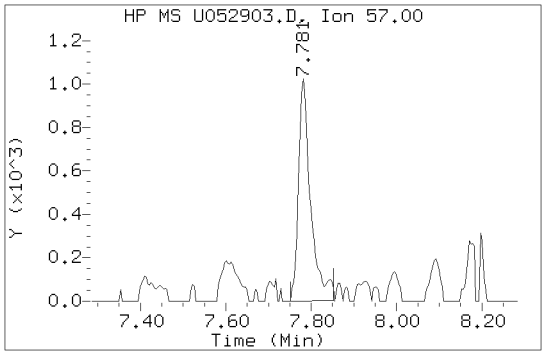
BEFORE

MASS
57
AREA
2051
HEIGHT
1022
06-Jun-2024
17:10
s
zaid



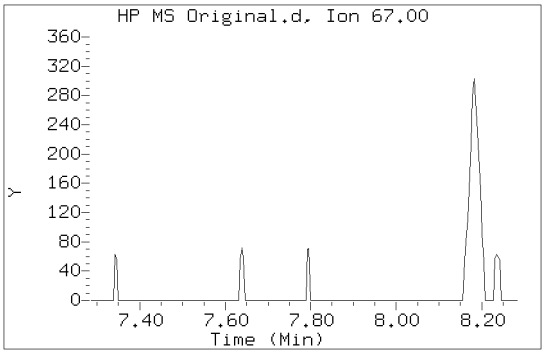
AFTER

MASS
57
AREA
2051
HEIGHT
1022
06-Jun-2024
17:10
s
zaid



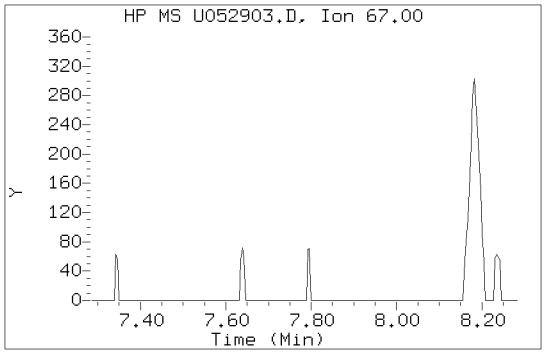
BEFORE

MASS
67
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
67
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



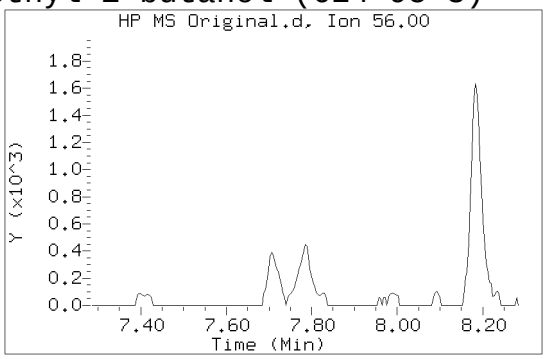
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

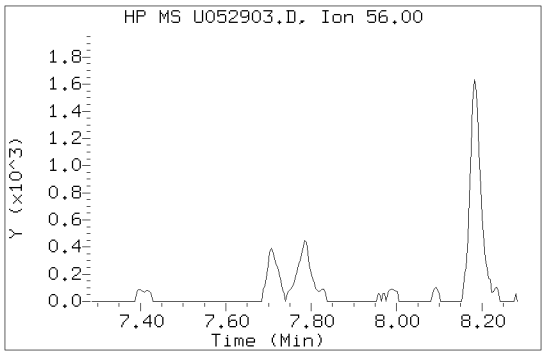
BEFORE

MASS
56
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
56
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid

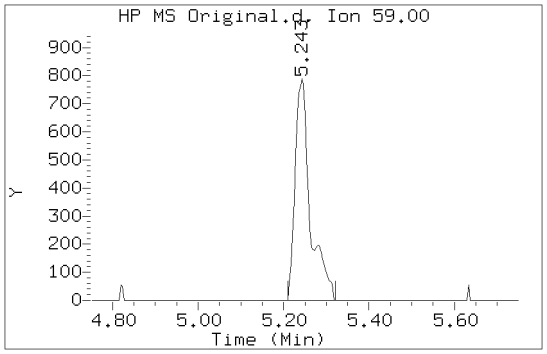


tert-Amyl alcohol (75-85-4)

Reason Code:

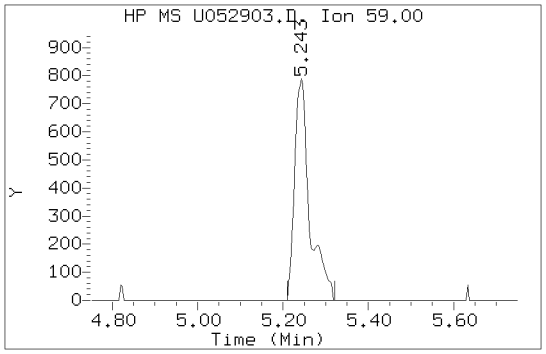
BEFORE

MASS
59
AREA
1972
HEIGHT
789
06-Jun-2024
17:10
s
zaid



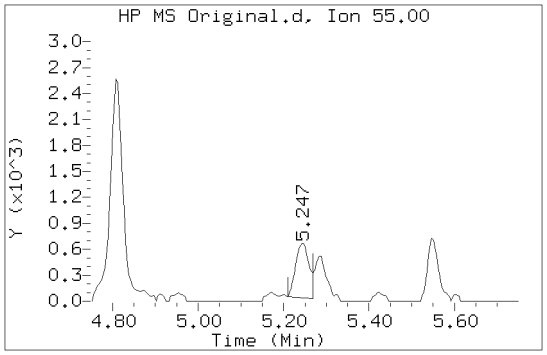
AFTER

MASS
59
AREA
1972
HEIGHT
789
06-Jun-2024
17:10
s
zaid



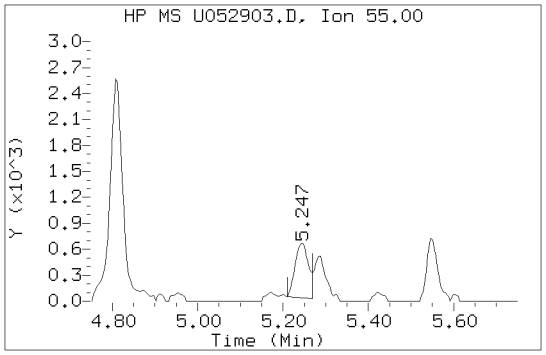
BEFORE

MASS
55
AREA
1431
HEIGHT
633
06-Jun-2024
17:10
s
zaid



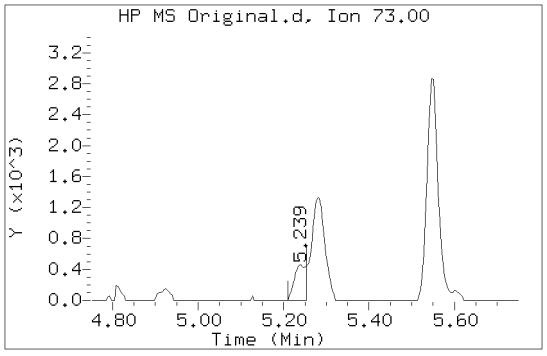
AFTER

MASS
55
AREA
1431
HEIGHT
633
06-Jun-2024
17:10
s
zaid



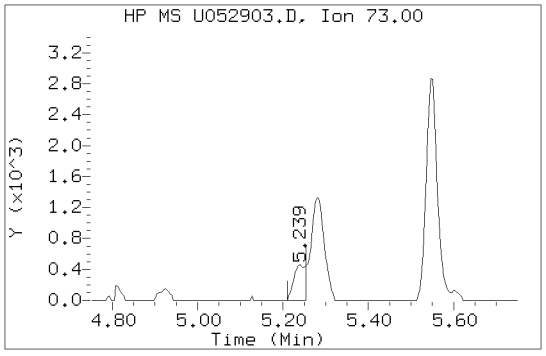
BEFORE

MASS
73
AREA
904
HEIGHT
462
06-Jun-2024
17:10
s
zaid



AFTER

MASS
73
AREA
904
HEIGHT
462
06-Jun-2024
17:10
s
zaid



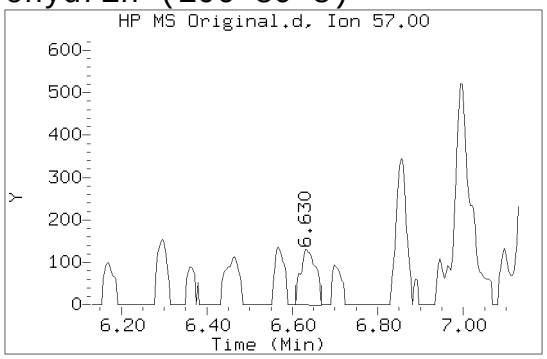
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

Epichlorohydrin (106-89-8)

Reason Code:

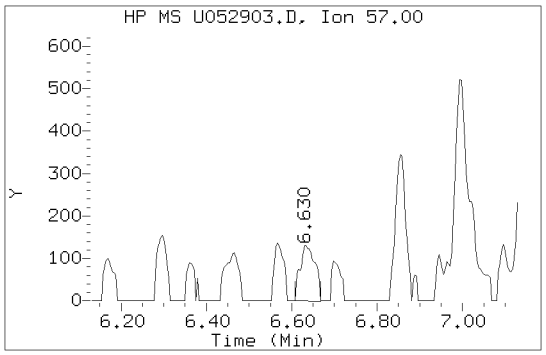
BEFORE

MASS
57
AREA
323
HEIGHT
131
06-Jun-2024
17:10
s
zaid



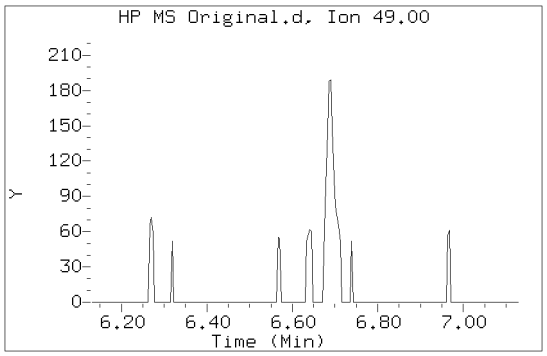
AFTER

MASS
57
AREA
323
HEIGHT
131
06-Jun-2024
17:10
s
zaid



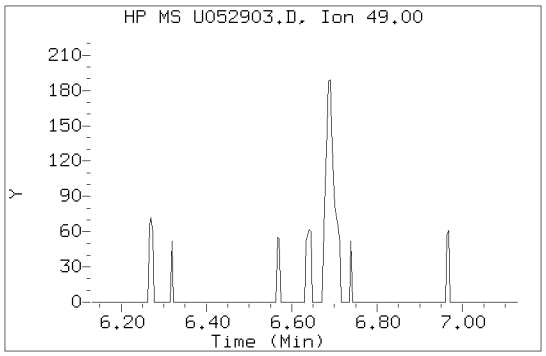
BEFORE

MASS
49
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
49
AREA
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HEIGHT
0
06-Jun-2024
17:10
s
zaid

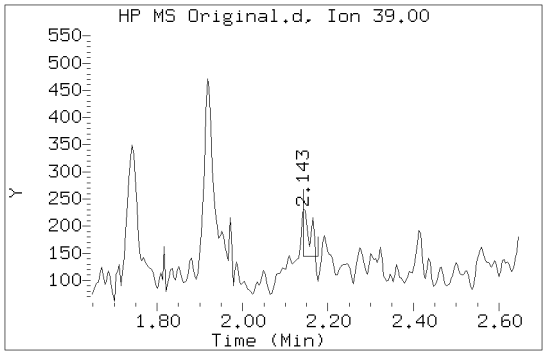


Isoprene (78-79-5)

Reason Code:

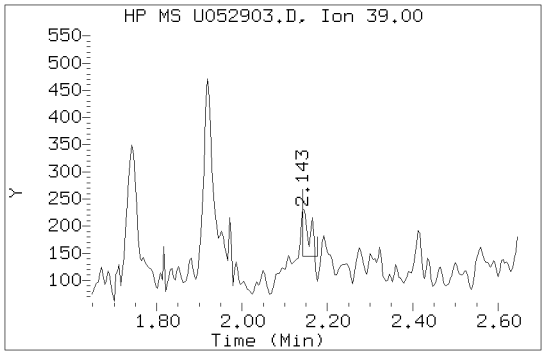
BEFORE

MASS
39
AREA
81
HEIGHT
87
06-Jun-2024
17:10
s
zaid



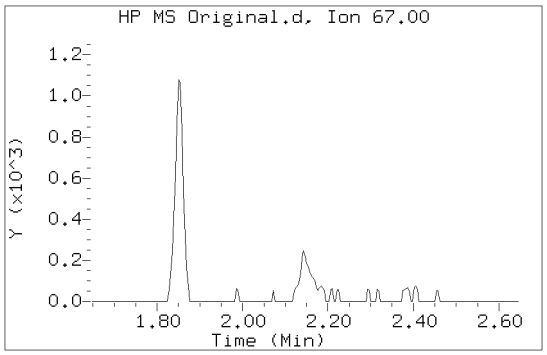
AFTER

MASS
39
AREA
81
HEIGHT
87
06-Jun-2024
17:10
s
zaid



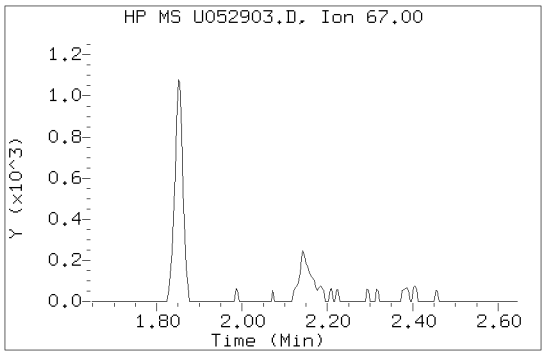
BEFORE

MASS
67
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
67
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



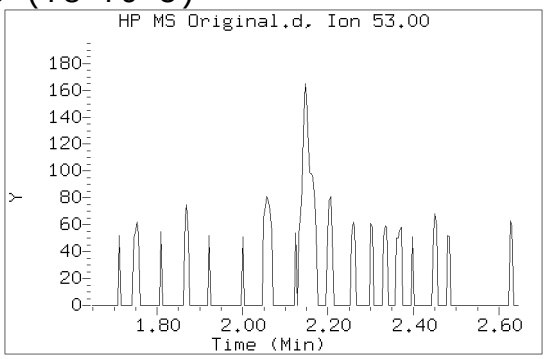
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052903.D
Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

Isoprene (78-79-5)

Reason Code:

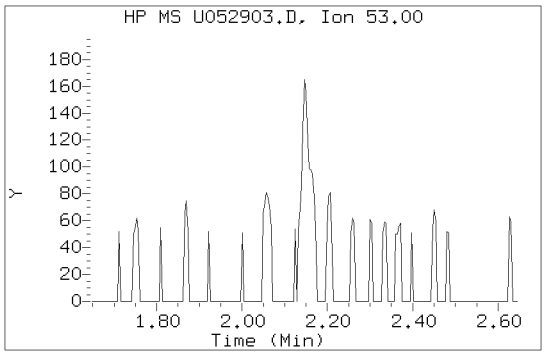
BEFORE

MASS
53
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
53
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid

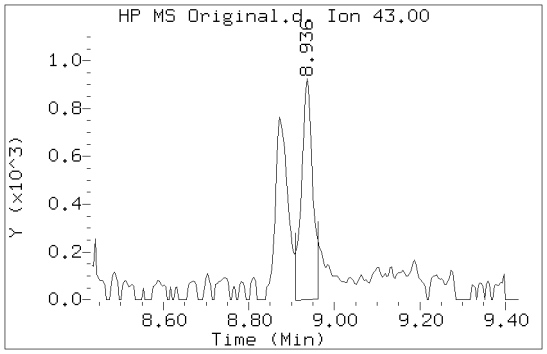


n-Amyl acetate (628-63-7)

Reason Code:

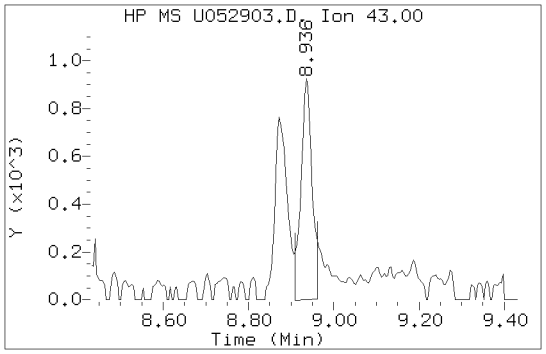
BEFORE

MASS
43
AREA
1727
HEIGHT
923
06-Jun-2024
17:10
s
zaid



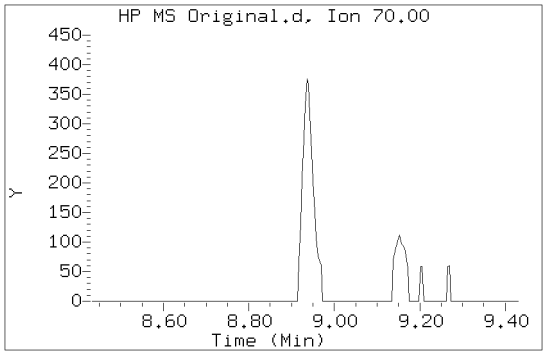
AFTER

MASS
43
AREA
1727
HEIGHT
923
06-Jun-2024
17:10
s
zaid



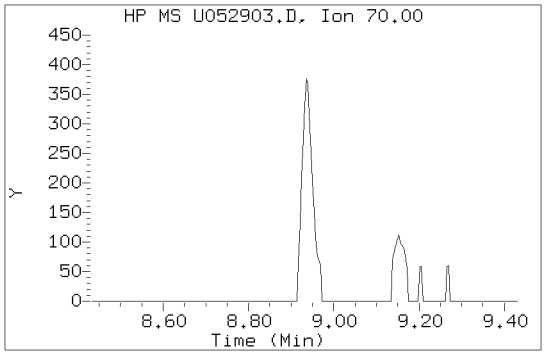
BEFORE

MASS
70
AREA
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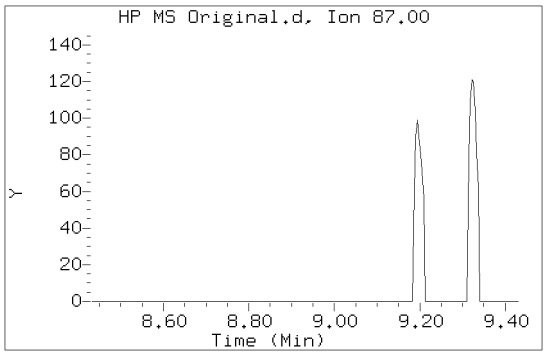
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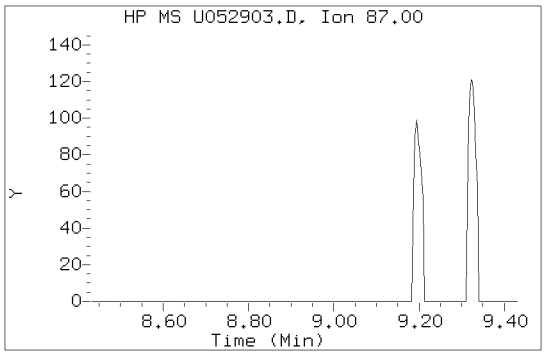
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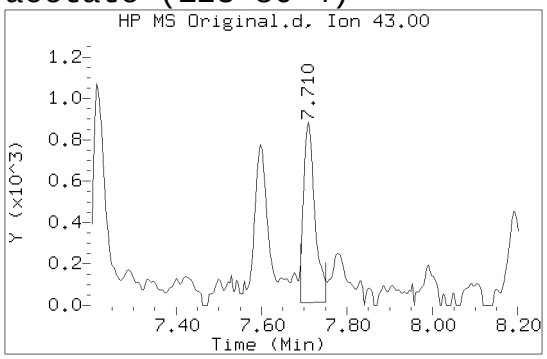
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Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

n-Butyl acetate (123-86-4)

Reason Code:

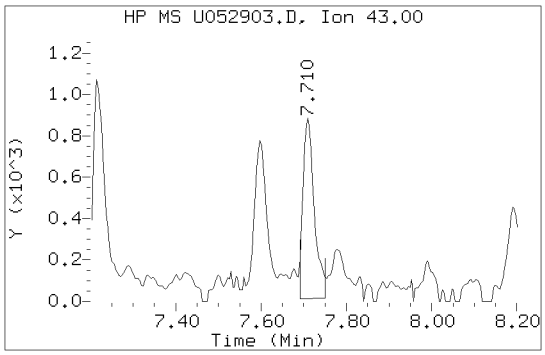
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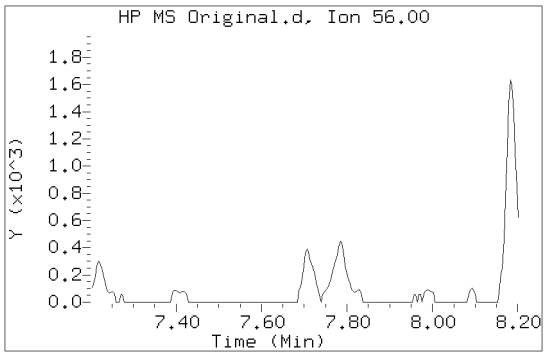
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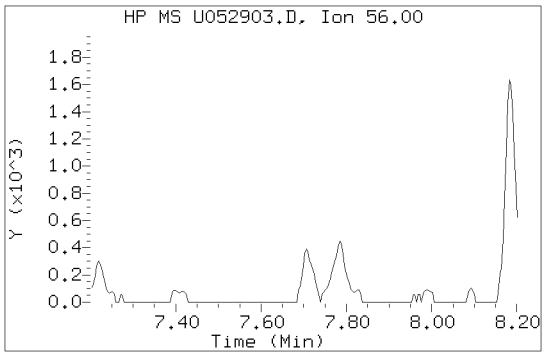
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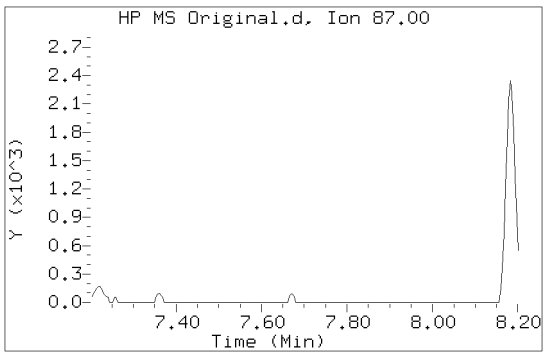
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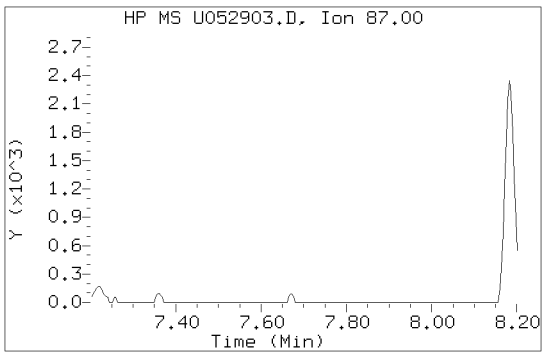
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AFTER

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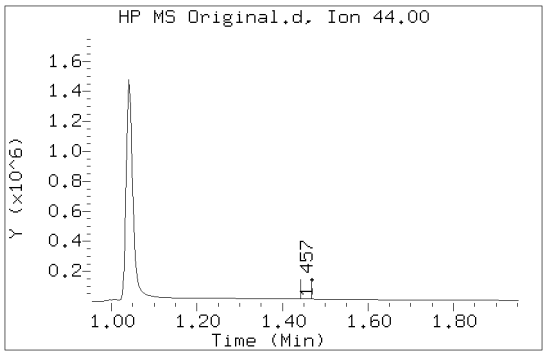


Acetaldehyde (75-07-0)

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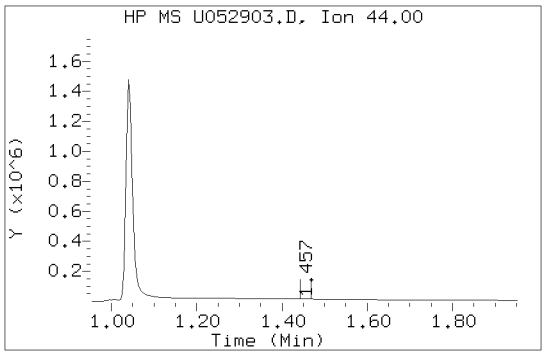
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AFTER

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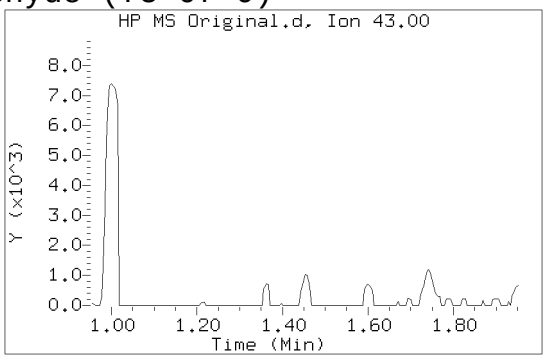
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Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

Acetaldehyde (75-07-0)

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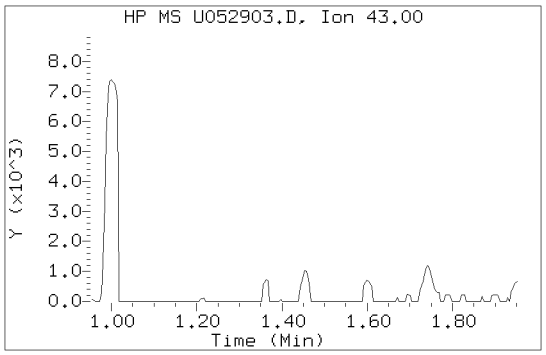
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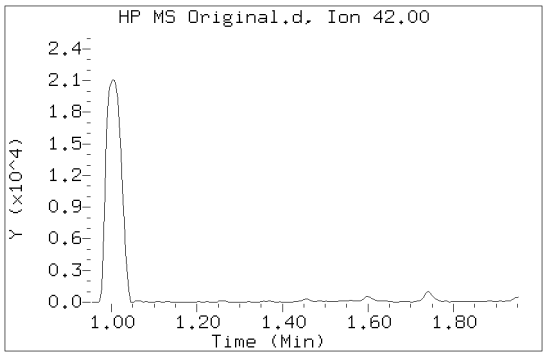
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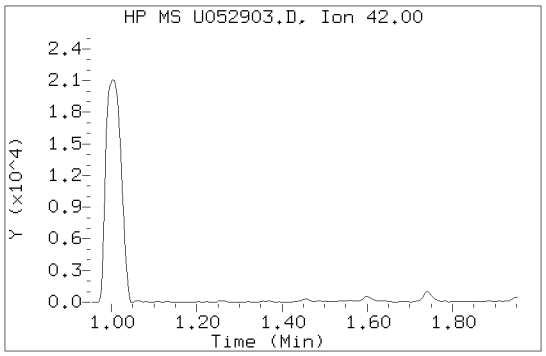
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AFTER

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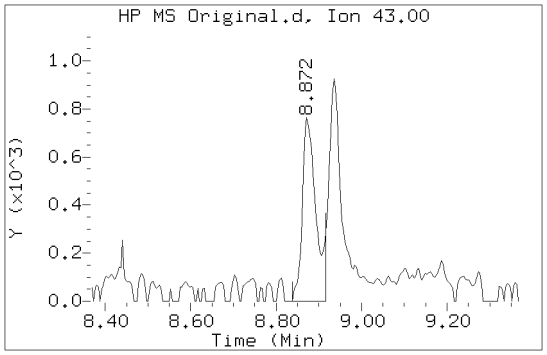


Methyl Amyl Ketone (110-43-0)

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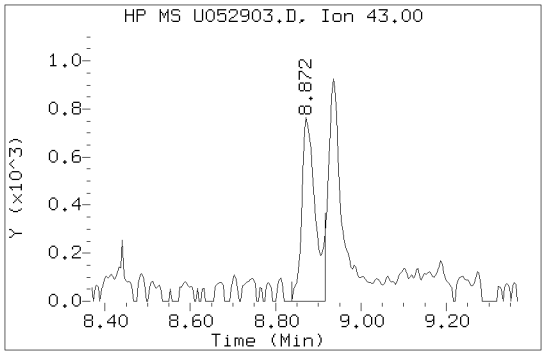
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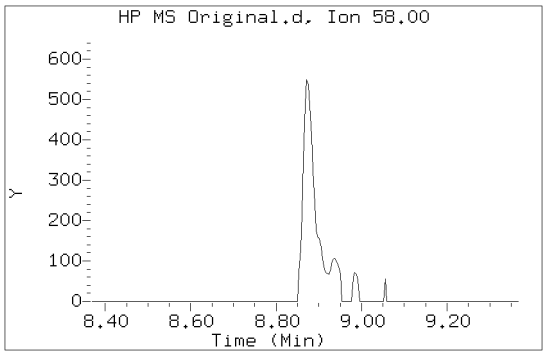
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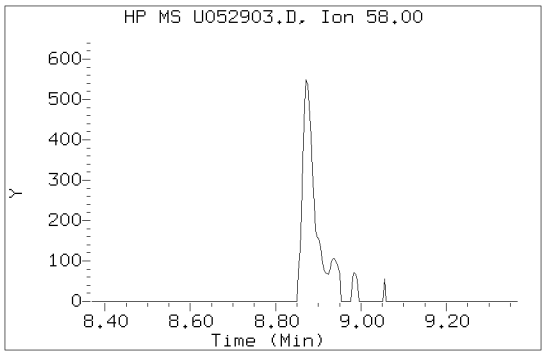
BEFORE

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06-Jun-2024
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AFTER

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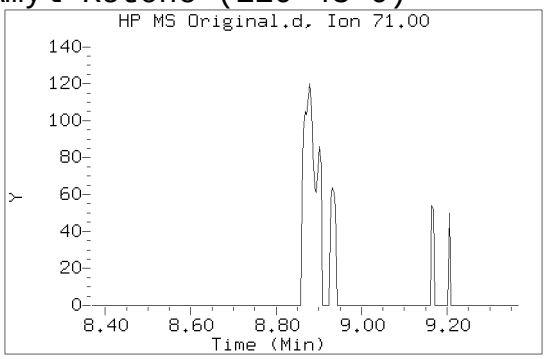
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Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

Methyl Amyl Ketone (110-43-0)

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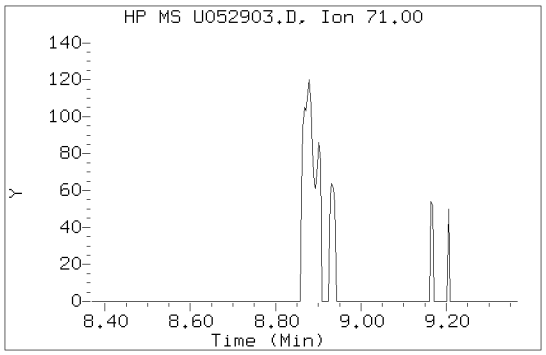
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AFTER

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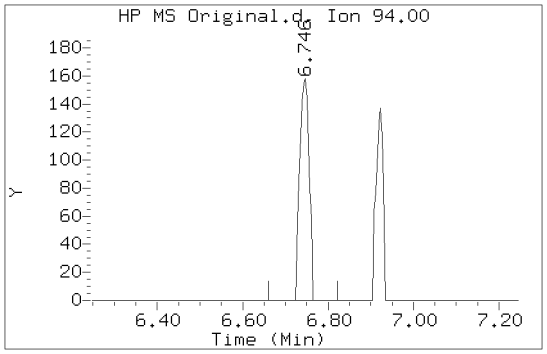


Dimethyl Disulfide (624-92-0)

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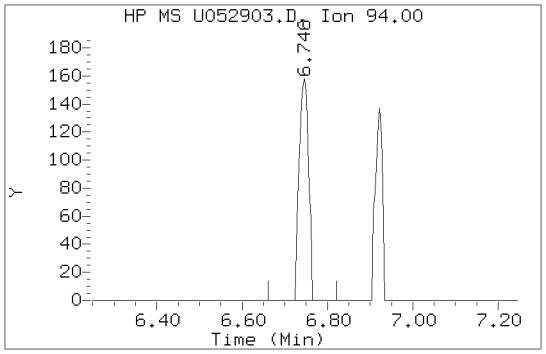
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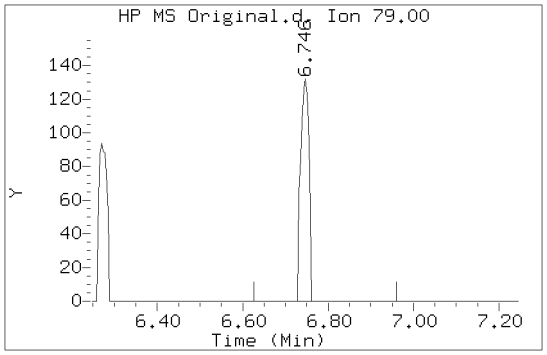
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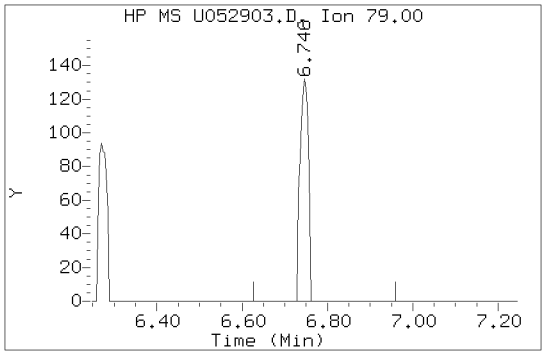
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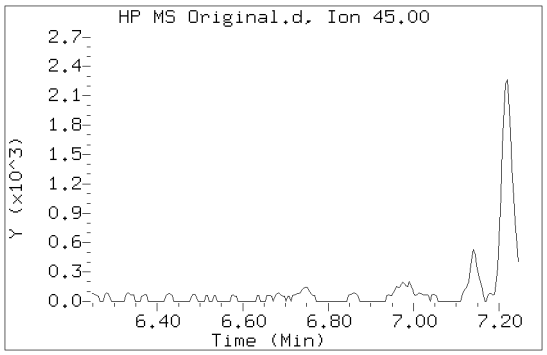
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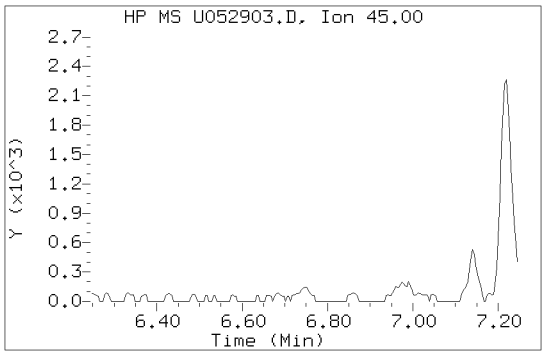
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AFTER

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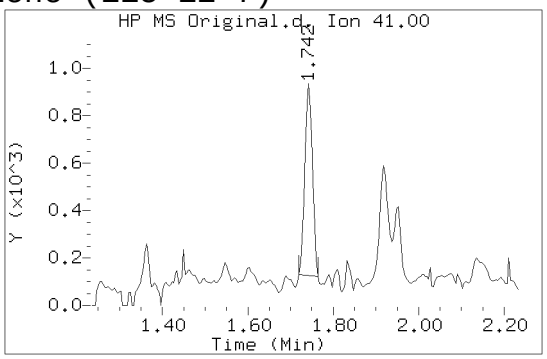


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Inj Date : 29-MAY-2024 11:00
InstruID : VOA9.i
LabSampID : VSTD00.5

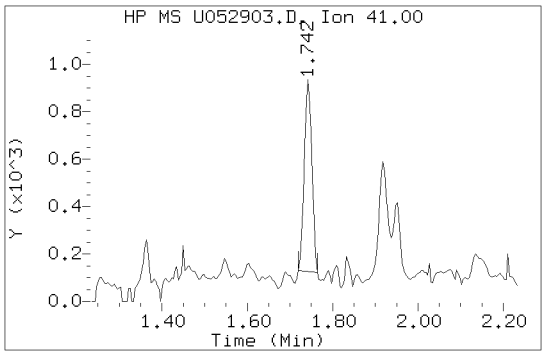
Isobutylene (115-11-7)

Reason Code:

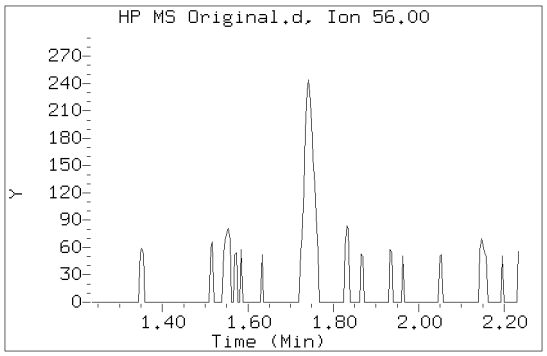
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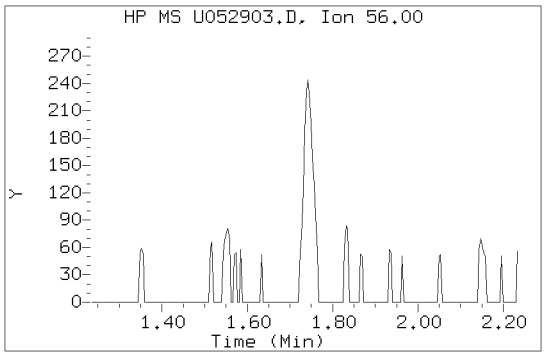
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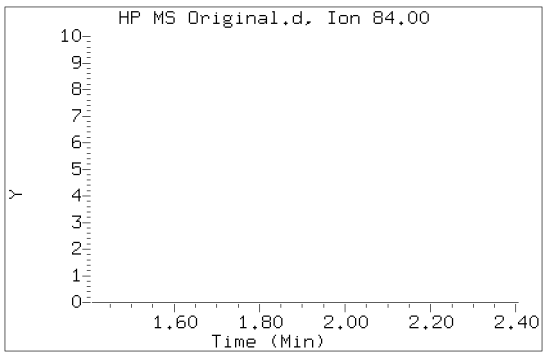
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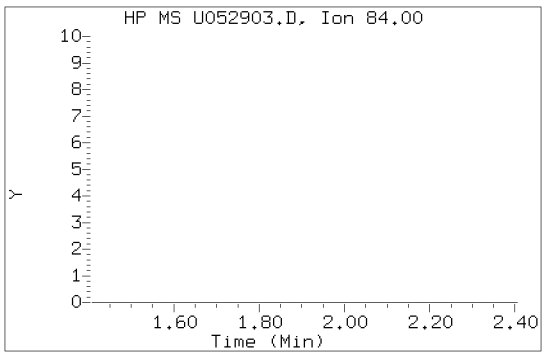
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AFTER
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06-Jun-2024
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Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052904.D Page 1
Report Date: 07-Jun-2024 10:54

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052904.D
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Inj Date : 29-MAY-2024 11:22
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD001;VSTD001;1;3
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240529.b\8260C.m
Meth Date : 07-Jun-2024 10:14 r.patel Quant Type: ISTD
Cal Date : 29-MAY-2024 11:22 Cal File: U052904.D
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.815	4.811	(1.000)	286775	50.0000	
2	Dichlorodifluoromethane	85	1.167	1.156	(0.243)	857	1.00000	0.80(M)
3	Chloromethane	50	1.302	1.288	(0.271)	8687	1.00000	1.57
4	Propionitrile	54	4.346	4.339	(0.903)	4715	10.0000	8.30(a)
5	Vinyl Chloride	62	1.381	1.366	(0.287)	2181	1.00000	1.00(M)
6	Bromomethane	94	1.621	1.595	(0.337)	2361	1.00000	0.56
7	Chloroethane	64	1.703	1.681	(0.354)	2279	1.00000	1.23(M)
8	Trichlorofluoromethane	101	1.898	1.884	(0.394)	2194	1.00000	0.85
9	Acrolein	56	2.266	2.259	(0.471)	625	2.00000	3.24(aM)
10	Acetone	43	2.416	2.405	(0.502)	4580	2.00000	3.55
11	1,1-Dichloroethene	96	2.333	2.322	(0.485)	1965	1.00000	1.03
12	Isobutyl Alcohol	43	5.287	5.284	(1.098)	8488	20.0000	11.97(a)
13	Acetonitrile	39	2.674	2.663	(0.555)	2763	10.0000	11.87(a)
14	Allyl Chloride	41	2.674	2.667	(0.555)	8034	1.00000	1.23(a)
15	Iodomethane	142	2.472	2.457	(0.513)	1102	2.00000	2.80(T)
16	Acrylonitrile	53	3.068	3.061	(0.637)	2714	2.00000	2.30
17	Methylene Chloride	84	2.794	2.783	(0.580)	4998	1.00000	0.97
18	Methyl tert-butyl ether	73	3.083	3.076	(0.640)	7839	1.00000	1.00
19	Carbon Disulfide	76	2.524	2.510	(0.524)	10875	2.00000	2.05
20	trans-1,2-Dichloroethene	96	3.060	3.050	(0.636)	2346	1.00000	1.09
21	Vinyl Acetate	43	4.346	4.339	(0.903)	3220	2.00000	2.54(M)

22 1,1-Dichloroethane	63	3.518	3.507 (0.731)	5374	1.00000	1.30
23 Chloroprene	53	3.615	3.601 (0.751)	2818	1.00000	0.93(a)

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052904.D Page 2
Report Date: 07-Jun-2024 10:54

			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
	24	2-Butanone	43	4.275	4.260	(0.888)	3365	2.00000	2.62
	25	Methacrylonitrile	41	4.504	4.489	(0.935)	1920	1.00000	1.26(a)
	26	2,2-Dichloropropane	77	4.181	4.174	(0.868)	2514	1.00000	0.93
	27	cis-1,2-Dichloroethene	96	4.200	4.189	(0.872)	3136	1.00000	1.18
	28	Chloroform	83	4.575	4.568	(0.950)	4858	1.00000	1.18
	29	Bromochloromethane	128	4.474	4.463	(0.929)	1768	1.00000	1.72
$	30	Dibromofluoromethane	113	4.751	4.744	(0.987)	2993	1.00000	1.15
	31	1,1,1-Trichloroethane	97	4.744	4.736	(0.985)	2288	1.00000	0.79
	32	1,1-Dichloropropene	75	4.924	4.916	(0.887)	2974	1.00000	0.96
	33	1,2-Dichloroethane	62	5.178	5.171	(0.933)	4481	1.00000	2.00(M)
	34	Carbon Tetrachloride	117	4.909	4.905	(0.884)	2008	1.00000	0.83(M)
$	35	1,2-Dichloroethane-d4	65	5.100	5.093	(1.059)	4136	1.00000	2.29
*	36	1,4-Difluorobenzene	114	5.553	5.550	(1.000)	423873	50.0000	
	37	Benzene	78	5.141	5.134	(0.926)	11456	1.00000	1.14
	38	Trichloroethene	130	5.789	5.786	(1.043)	2675	1.00000	1.08(a)
	39	Bromodichloromethane	83	6.281	6.277	(1.131)	2854	1.00000	1.06(aM)
	40	Methyl Methacrylate	41	5.838	5.827	(1.213)	1060	1.00000	1.40(a)
	41	2-Chloroethylvinyl ether	63	6.580	6.573	(1.185)	1330	2.00000	4.79(M)
	42	1,2-Dichloropropane	63	6.011	6.007	(1.082)	3051	1.00000	1.15(aM)
	43	2-Nitropropane	43	6.509	6.506	(1.352)	456	1.00000	2.71(aM)
	44	Dibromomethane	93	6.119	6.116	(1.102)	1936	1.00000	1.26(a)
	45	4-Methyl-2-Pentanone	43	6.854	6.851	(0.837)	6605	2.00000	3.07(a)
	46	cis-1,3-Dichloropropene	75	6.693	6.690	(1.205)	3129	1.00000	1.72(a)
*	47	Chlorobenzene-d5	117	8.185	8.185	(1.000)	373701	50.0000	
$	48	Toluene-d8	98	6.922	6.918	(0.846)	12775	1.00000	1.99(a)
	49	Ethyl Methacrylate	69	7.293	7.289	(1.313)	3966	1.00000	1.20(a)
	50	Toluene	91	6.982	6.978	(0.853)	12093	1.00000	1.19(a)
	51	trans-1,3-Dichloropropene	75	7.199	7.196	(1.296)	2284	1.00000	1.91(a)
	52	2-Hexanone	43	7.596	7.589	(0.928)	4192	2.00000	4.26(aM)
	53	1,1,2-Trichloroethane	83	7.356	7.353	(0.899)	2548	1.00000	1.07(a)
	54	1,3-Dichloropropane	76	7.499	7.499	(0.916)	5120	1.00000	1.23(a)
	55	Dibromochloromethane	129	7.694	7.690	(0.940)	1952	1.00000	1.80(a)
	56	Tetrachloroethene	164	7.454	7.454	(0.911)	1502	1.00000	0.84(a)
	57	1,2-Dibromoethane	107	7.784	7.784	(0.951)	2599	1.00000	1.16(a)
	58	1-Chlorohexane	55	8.185	8.196	(1.474)	4740	1.00000	1.73(a)
	59	Chlorobenzene	112	8.207	8.208	(1.003)	7640	1.00000	1.18(a)
	60	1,1,1,2-Tetrachloroethane	131	8.282	8.283	(1.012)	2072	1.00000	1.00(a)
	61	Ethylbenzene	106	8.305	8.305	(1.015)	3630	1.00000	1.20(a)
	62	m,p-Xylenes	106	8.410	8.406	(1.027)	13484	2.00000	2.61(a)
	63	o-Xylene	106	8.747	8.744	(1.069)	5882	1.00000	2.30(a)
	64	Styrene	104	8.762	8.759	(1.071)	6373	1.00000	1.03(a)
	66	Bromoform	173	8.920	8.916	(1.090)	1114	1.00000	2.30(aM)
	67	Isopropylbenzene	105	9.062	9.059	(1.107)	7651	1.00000	0.85(a)
	68	1,1,2,2-Tetrachloroethane	83	9.328	9.329	(0.917)	4229	1.00000	1.27(aM)
$	69	4-Bromofluorobenzene	95	9.193	9.190	(1.123)	5245	1.00000	1.92(a)
*	70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	199766	50.0000	
	71	1,2,3-Trichloropropane	75	9.362	9.362	(0.921)	3399	1.00000	1.09(aM)
	72	trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	706	1.00000	1.10(a)
	73	n-Propylbenzene	91	9.411	9.411	(0.926)	9939	1.00000	0.92(a)
	74	Bromobenzene	156	9.317	9.317	(0.916)	3136	1.00000	1.14(a)
	75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	10157	1.00000	1.11(a)
	76	2-Chlorotoluene	91	9.482	9.482	(0.933)	8525	1.00000	0.85(a)

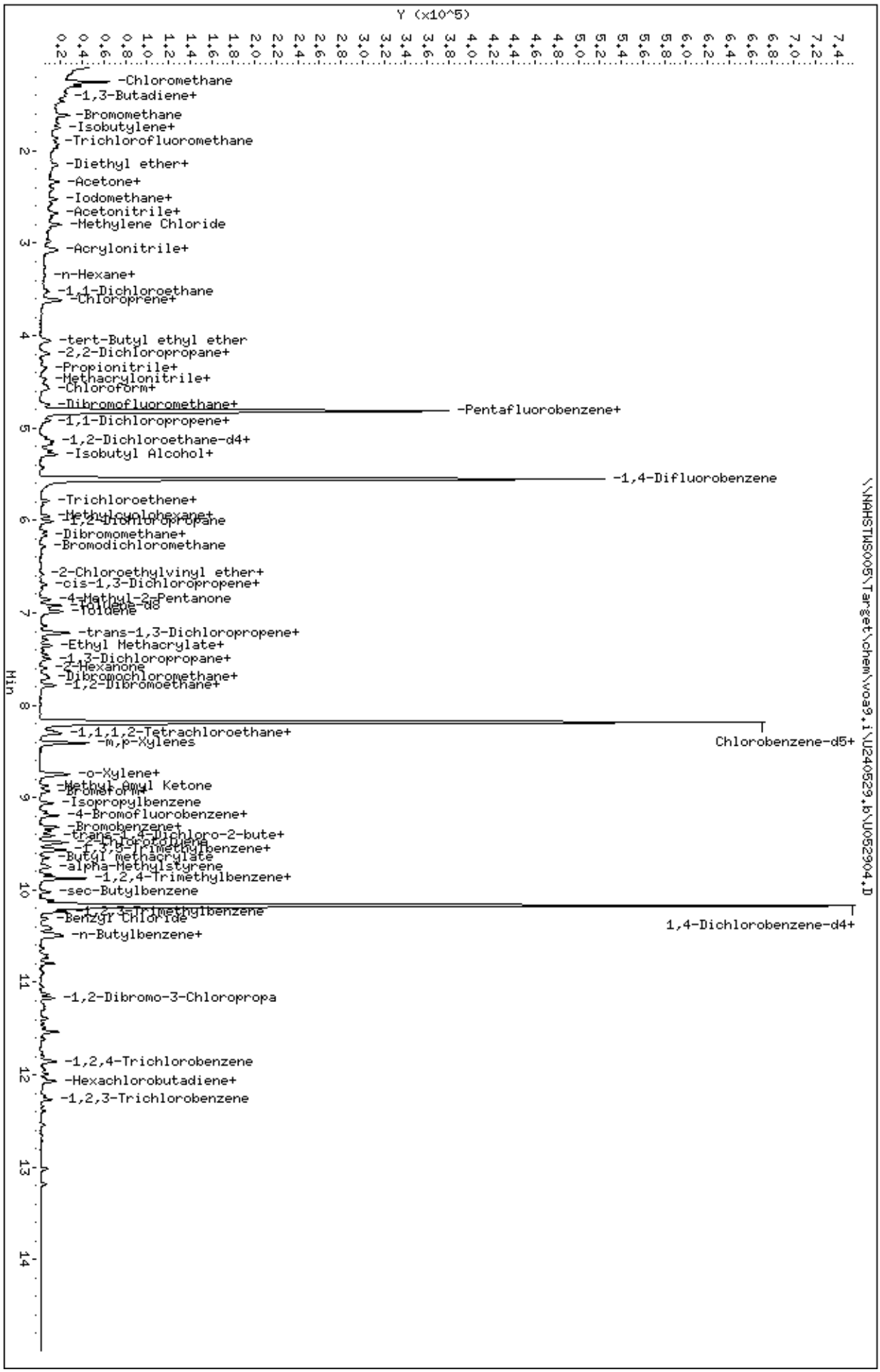
77 4-Chlorotoluene	91	9.576	9.576 (0.942)	7866	1.00000	1.01(a)
78 tert-Butylbenzene	119	9.834	9.835 (0.967)	4628	1.00000	0.76(aM)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	22742	1.00000	1.28(a)
81	sec-Butylbenzene	105	10.022	10.022	(0.986)	6120	1.00000	0.74(a)
82	p-Isopropyltoluene	119	10.145	10.146	(0.998)	5427	1.00000	0.75(a)
83	1,3-Dichlorobenzene	146	10.115	10.116	(0.995)	4916	1.00000	1.05(aM)
84	1,4-Dichlorobenzene	146	10.190	10.191	(1.002)	5838	1.00000	1.13(a)
86	Benzyl Chloride	91	10.310	10.311	(1.260)	4616	1.00000	2.71(a)
87	n-Butylbenzene	91	10.490	10.491	(1.032)	7427	1.00000	1.40(a)
88	1,2-Dichlorobenzene	146	10.505	10.502	(1.033)	5651	1.00000	1.17(aM)
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	485	1.00000	2.01(aM)
90	1,2,4-Trichlorobenzene	180	11.859	11.855	(1.166)	2991	1.00000	0.98(a)
91	Hexachlorobutadiene	225	11.997	11.998	(1.180)	1041	1.00000	0.85(a)
92	Naphthalene	128	12.069	12.065	(1.187)	11206	1.00000	1.37(a)
93	1,2,3-Trichlorobenzene	180	12.267	12.268	(1.206)	2793	1.00000	0.99(a)
146	Methyl acetate	43	2.719	2.708	(0.565)	3707	1.00000	1.88(a)
138	Freon TF	101	2.337	2.326	(0.485)	1010	1.00000	1.06(a)
141	Cyclohexane	56	4.815	4.778	(1.000)	6773	1.00000	1.32(a)
147	Methylcyclohexane	55	5.951	5.944	(1.072)	5794	1.00000	1.70(a)
135	1,4-Dioxane	88	6.172	6.168	(1.282)	1066	20.0000	20.80
132	n-Butanol	56	5.834	5.827	(1.212)	1735	20.0000	22.45(a)
136	n-Hexane	57	3.342	3.331	(0.694)	1300	1.00000	1.30(a)
139	Diethyl ether	59	2.150	2.139	(0.446)	2295	1.00000	0.92(a)
148	Tert-butyl alcohol	59	2.978	2.975	(0.619)	6404	20.0000	13.18
149	Isopropyl alcohol	45	2.573	2.570	(0.534)	4800	20.0000	16.06
152	Amyl alcohol	42	7.405	7.398	(0.905)	1733	20.0000	40.16
156	Diisopropyl ether	45	3.626	3.619	(0.753)	9215	1.00000	1.25(Ta)
162	Butyl acrylate	55	8.736	8.733	(1.067)	4624	1.00000	2.01(a)
187	n-Amyl acetate	43	8.935	8.931	(1.092)	4502	1.00000	1.10(aM)
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	12080	1.00000	1.17(a)
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	11411	1.00000	2.35(a)
167	Ethanol	45	2.086	2.086	(0.433)	850	20.0000	10.85
172	tert-Butyl formate	59	5.246	5.250	(1.090)	5549	2.00000	2.44(a)
173	3,3-Dimethyl-1-butanol	57	7.784	7.784	(0.951)	6038	20.0000	23.21(M)
174	tert-Amyl methyl ether	73	5.287	5.284	(1.098)	8204	1.00000	1.22(a)
175	tert-Butyl ethyl ether	59	4.054	4.047	(0.842)	8532	1.00000	1.30(a)
176	tert-Amyl alcohol	59	5.246	5.250	(1.090)	5549	20.0000	24.21
151	4-Methyl-2-pentanol	45	7.218	7.222	(1.300)	14569	20.0000	34.00
140	1,3-Butadiene	54	1.407	1.396	(0.292)	1054	1.00000	0.99(a)
182	Epichlorohydrin	57	6.633	6.630	(1.194)	718	4.00000	6.35(M)
M 94	1,2-Dichloroethylene (total)	96				5482	2.00000	(a)
130	Ethyl Acetate	43	4.346	4.339	(0.903)	3313	1.00000	1.25(aM)
131	Methyl Acrylate	55	4.384	4.365	(0.910)	3957	1.00000	1.32(aM)
189	n-Butyl acetate	43	7.705	7.702	(0.941)	4706	1.00000	1.19(aM)
134	Cyclohexanone	55	9.152	9.152	(0.900)	2910	20.0000	36.22(a)
185	Isoprene	39	2.165	2.146	(0.450)	375	1.00000	1.48(aM)
188	Isopropyl acetate	43	5.287	5.284	(0.952)	8488	1.00000	1.20(a)
150	Allyl alcohol	57	3.342	3.331	(0.694)	1300	20.0000	26.16
194	Acetaldehyde	44	1.467	1.453	(0.305)	3248	4.00000	6.37(M)
195	Methyl Amyl Ketone	43	8.871	8.868	(1.084)	5091	1.00000	1.11(a)
200	Dimethyl Disulfide	94	6.745	6.746	(0.824)	895	1.00000	5.44(M)
202	Isobutylene	41	1.752	1.734	(0.364)	1518	1.00000	1.06(aM)
133	Ethyl Acrylate	55	5.951	5.944	(1.236)	5916	1.00000	1.66(aM)
163	Butyl methacrylate	41	9.651	9.647	(0.949)	2085	1.00000	0.90(aM)

159 Propylene oxide	43	2.206	2.191 (0.458)	1105	2.00000	5.74
203 2-Ethylhexyl Acrylate	55	12.042	12.039 (1.184)	2167	1.00000	2.24(a)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Client ID: VSTD001
Sample Info: VSTD001;VSTD0011;3
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: FT
Column diameter: 0.18

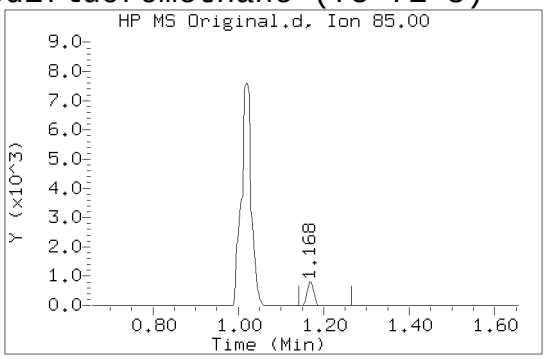
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InstruID : VOA9.i
LabSampID : VSTD001

Dichlorodifluoromethane (75-71-8)

Reason Code:

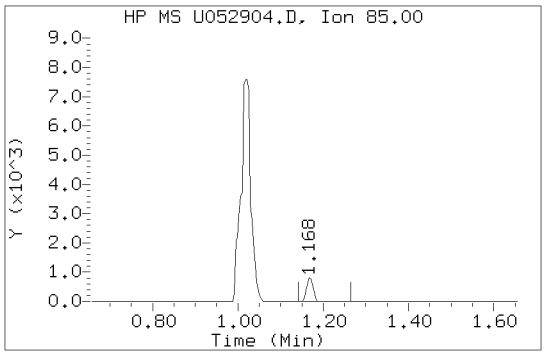
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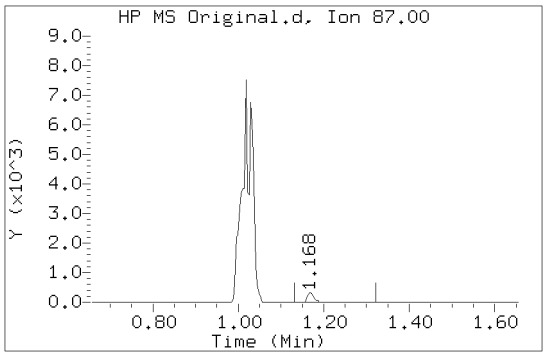
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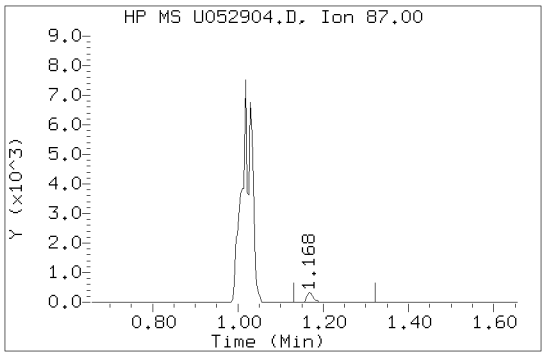
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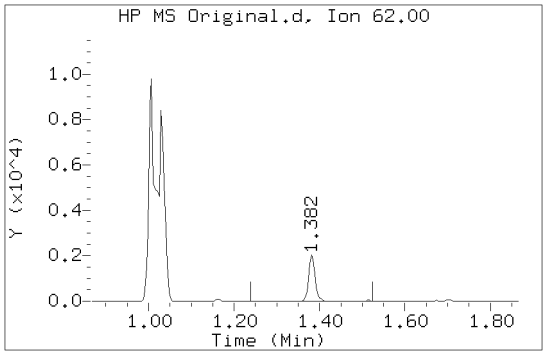


Vinyl Chloride (75-01-4)

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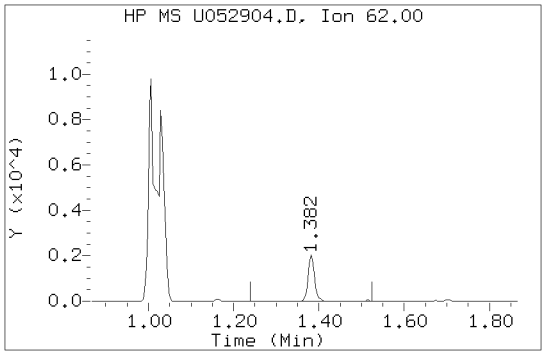
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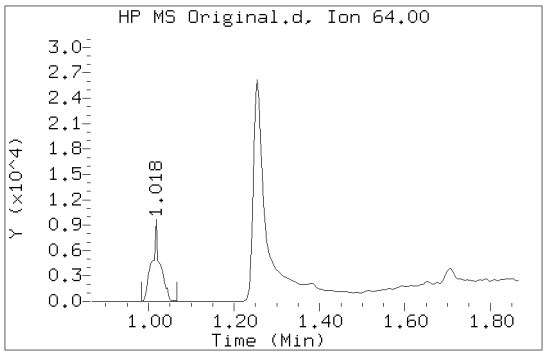
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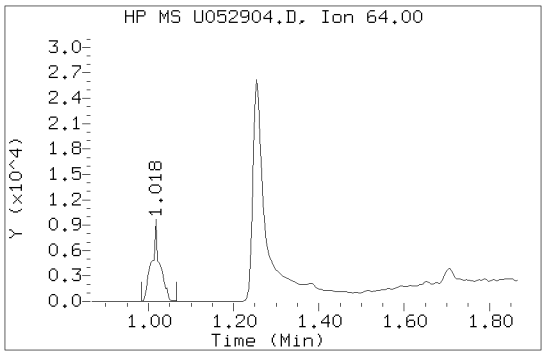
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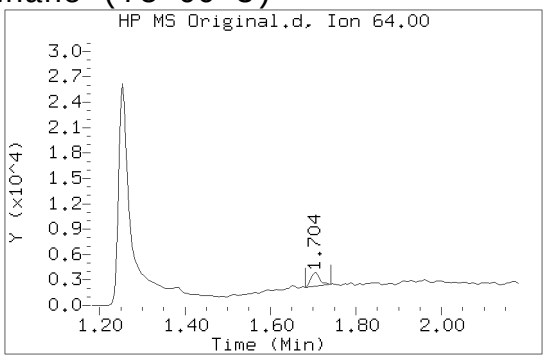


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LabSampID : VSTD001

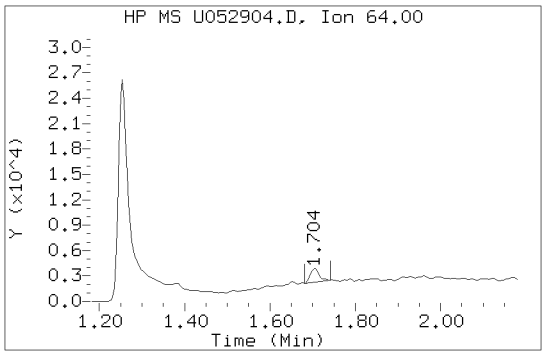
Chloroethane (75-00-3)

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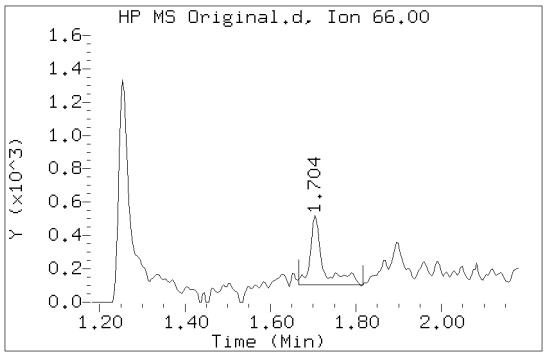
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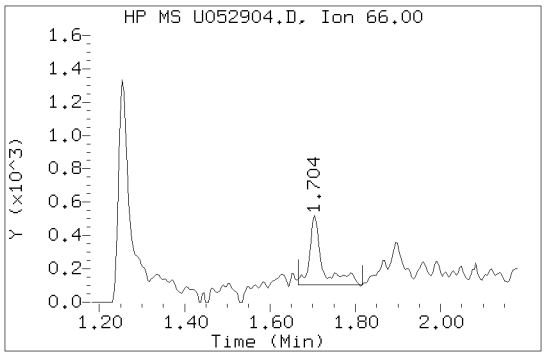
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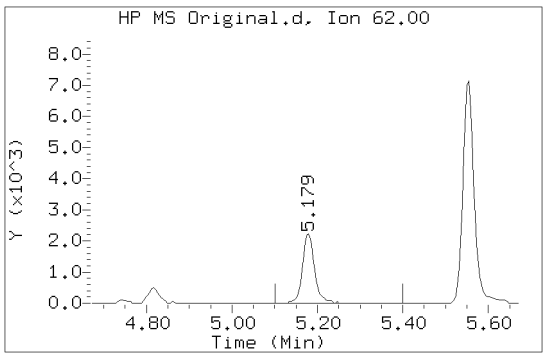
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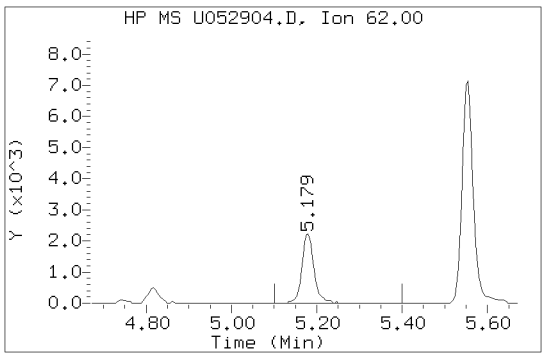
1,2-Dichloroethane (107-06-2)

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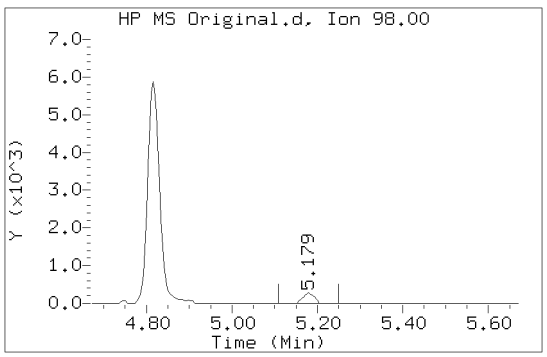
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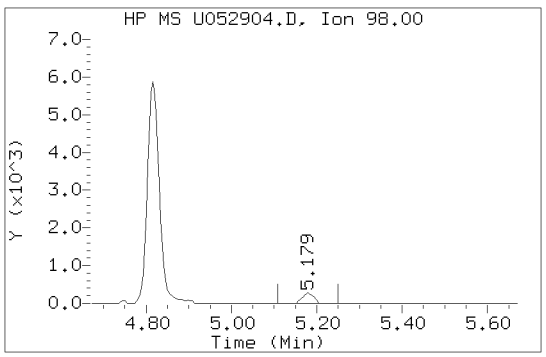
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BEFORE
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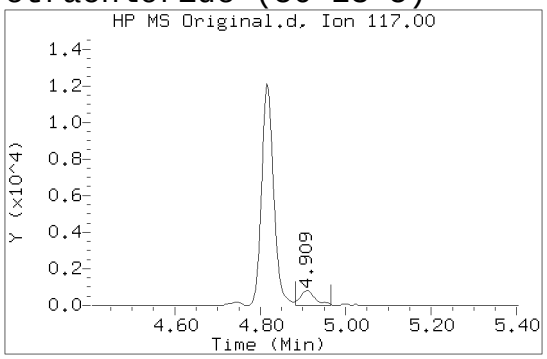


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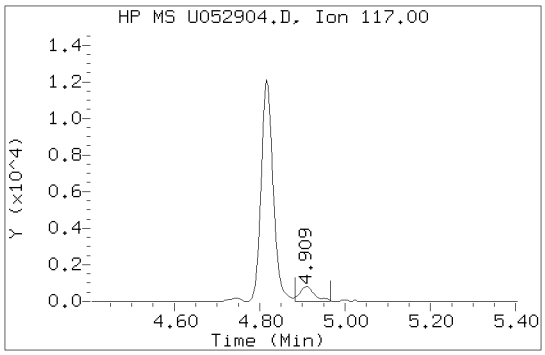
Carbon Tetrachloride (56-23-5)

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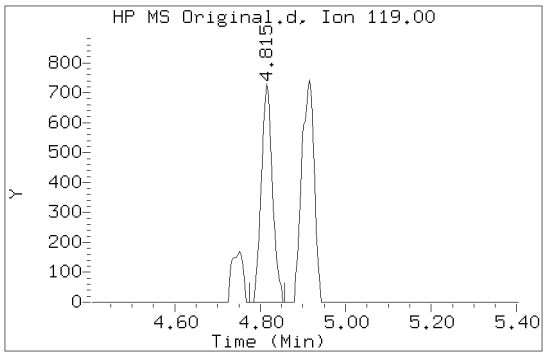
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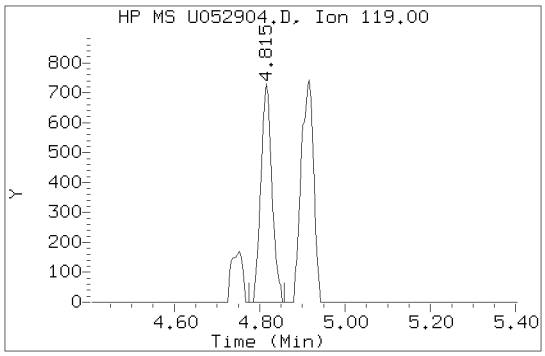
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HEIGHT
821
06-Jun-2024
17:10
s
zaid



BEFORE
MASS
119
AREA
1316
HEIGHT
730
06-Jun-2024
17:10
s
zaid



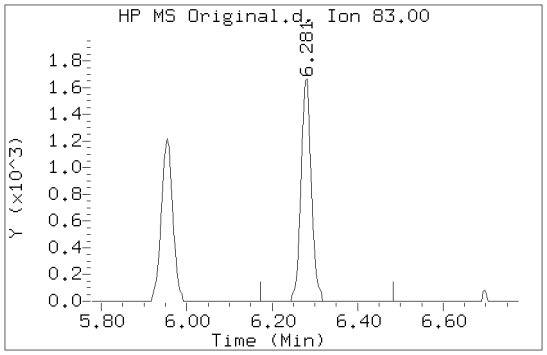
AFTER
MASS
119
AREA
1316
HEIGHT
730
06-Jun-2024
17:10
s
zaid



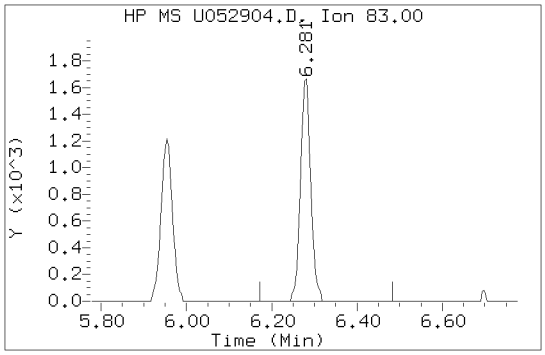
Bromodichloromethane (75-27-4)

Reason Code:

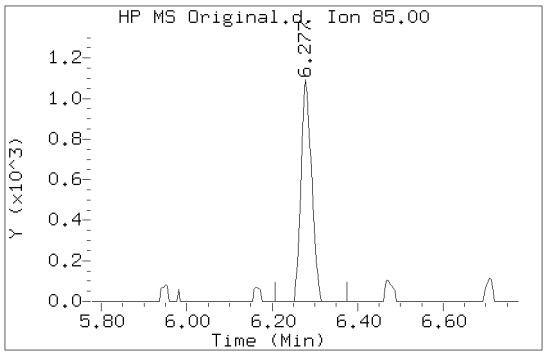
BEFORE
MASS
83
AREA
2854
HEIGHT
1665
06-Jun-2024
17:10
s
zaid



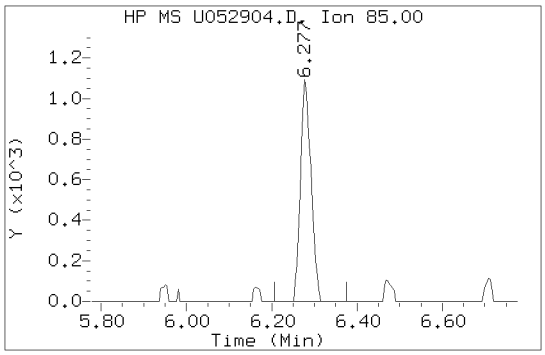
AFTER
MASS
83
AREA
2854
HEIGHT
1665
06-Jun-2024
17:10
s
zaid



BEFORE
MASS
85
AREA
1914
HEIGHT
1093
06-Jun-2024
17:10
s
zaid



AFTER
MASS
85
AREA
1914
HEIGHT
1093
06-Jun-2024
17:10
s
zaid



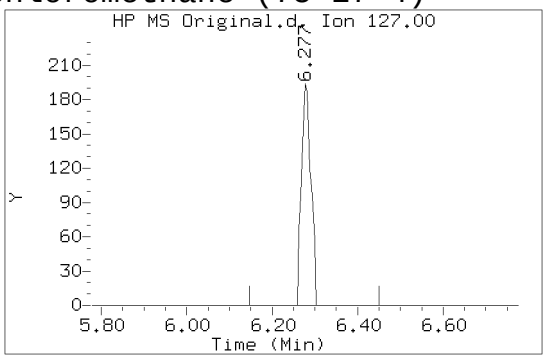
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052904.D
Inj Date : 29-MAY-2024 11:22
InstruID : VOA9.i
LabSampID : VSTD001

Bromodichloromethane (75-27-4)

Reason Code:

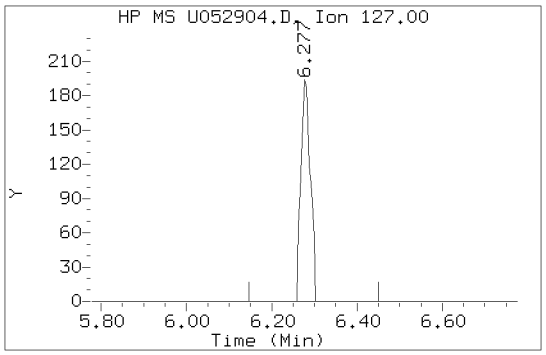
BEFORE

MASS
127
AREA
305
HEIGHT
194
06-Jun-2024
17:10
s
zaid



AFTER

MASS
127
AREA
305
HEIGHT
194
06-Jun-2024
17:10
s
zaid

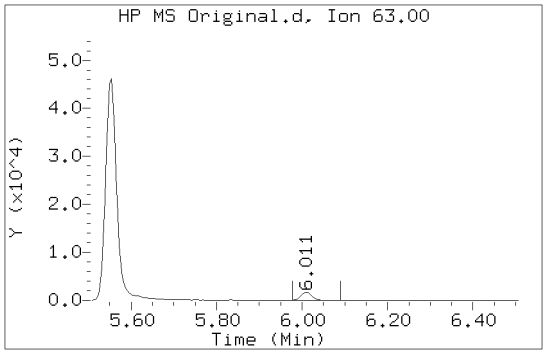


1,2-Dichloropropane (78-87-5)

Reason Code:

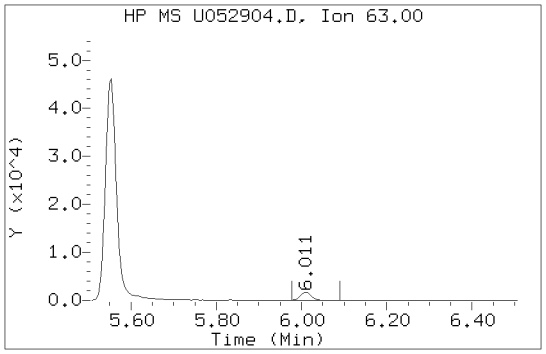
BEFORE

MASS
63
AREA
3051
HEIGHT
1657
06-Jun-2024
17:10
s
zaid



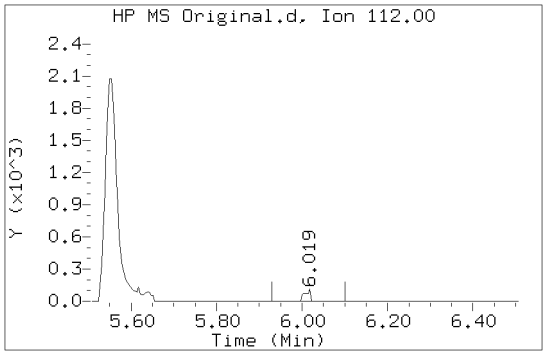
AFTER

MASS
63
AREA
3051
HEIGHT
1657
06-Jun-2024
17:10
s
zaid



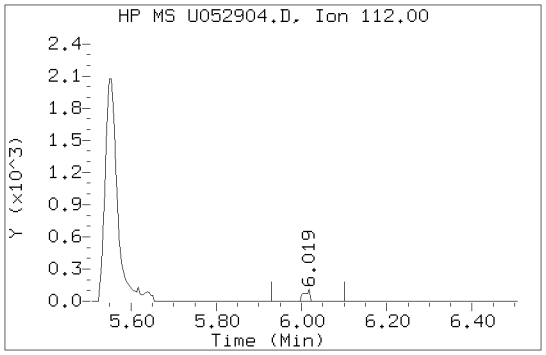
BEFORE

MASS
112
AREA
102
HEIGHT
114
06-Jun-2024
17:10
s
zaid



AFTER

MASS
112
AREA
102
HEIGHT
114
06-Jun-2024
17:10
s
zaid

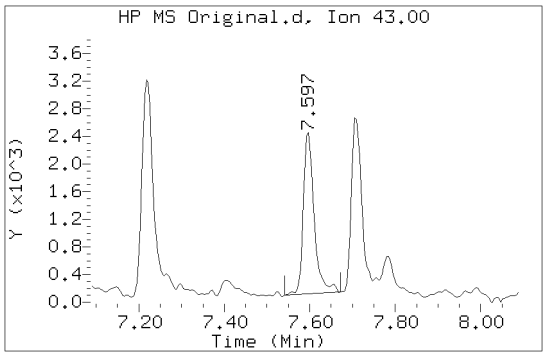


2-Hexanone (591-78-6)

Reason Code:

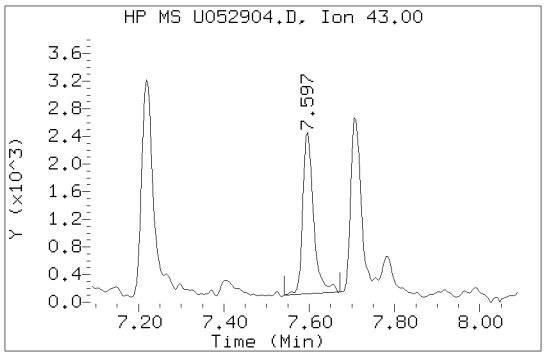
BEFORE

MASS
43
AREA
4192
HEIGHT
2333
06-Jun-2024
17:10
s
zaid



AFTER

MASS
43
AREA
4192
HEIGHT
2333
06-Jun-2024
17:10
s
zaid



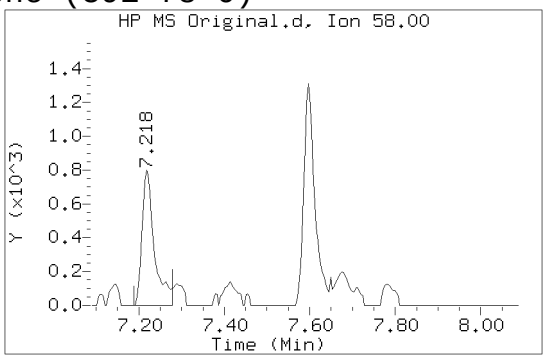
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052904.D
Inj Date : 29-MAY-2024 11:22
InstruID : VOA9.i
LabSampID : VSTD001

2-Hexanone (591-78-6)

Reason Code:

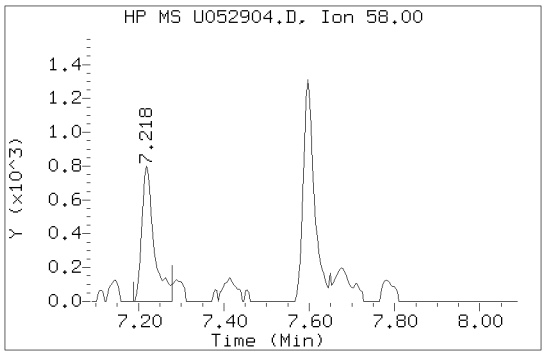
BEFORE

MASS
58
AREA
1605
HEIGHT
799
06-Jun-2024
17:10
s
zaid



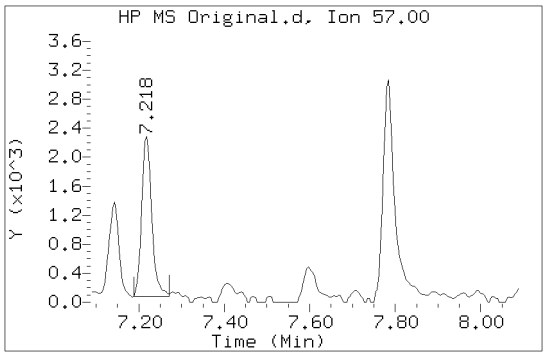
AFTER

MASS
58
AREA
1605
HEIGHT
799
06-Jun-2024
17:10
s
zaid



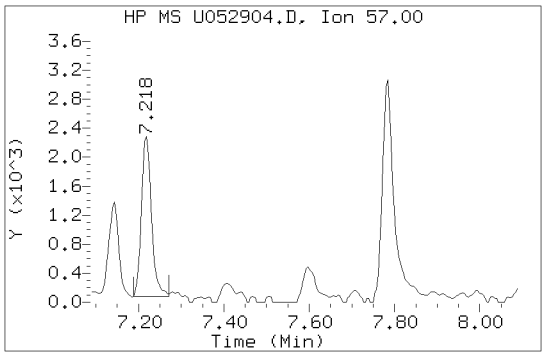
BEFORE

MASS
57
AREA
3635
HEIGHT
2212
06-Jun-2024
17:10
s
zaid



AFTER

MASS
57
AREA
3635
HEIGHT
2212
06-Jun-2024
17:10
s
zaid

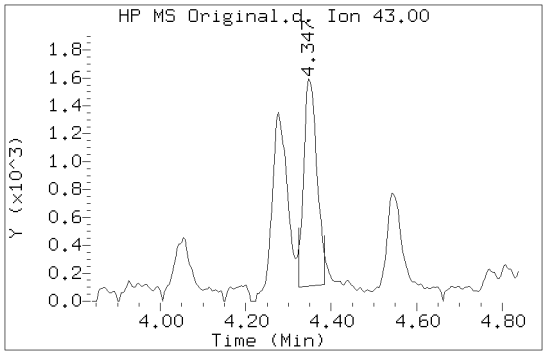


Vinyl Acetate (108-05-4)

Reason Code:

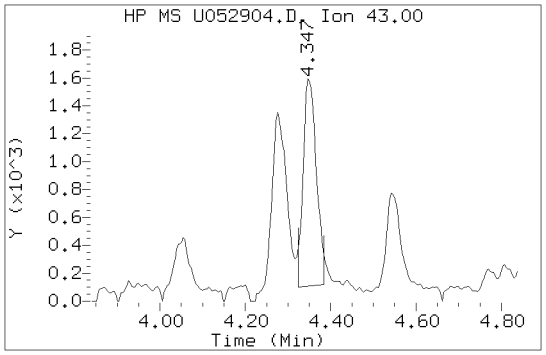
BEFORE

MASS
43
AREA
3220
HEIGHT
1483
06-Jun-2024
17:10
s
zaid



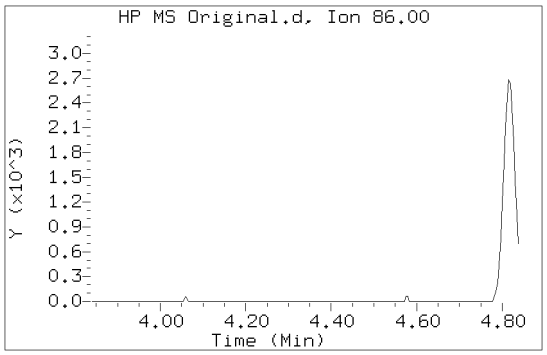
AFTER

MASS
43
AREA
3220
HEIGHT
1483
06-Jun-2024
17:10
s
zaid



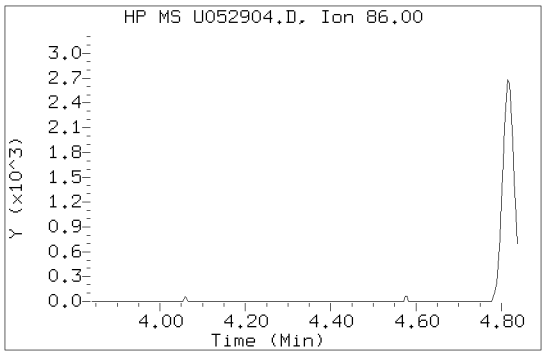
BEFORE

MASS
86
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
86
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



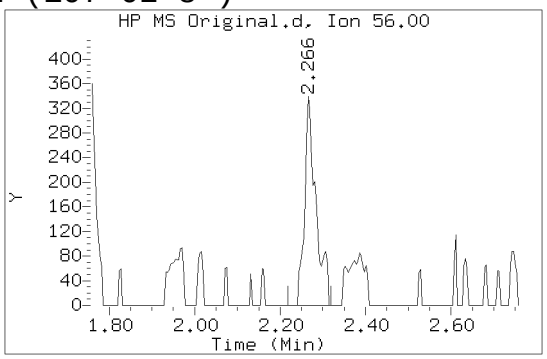
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052904.D
Inj Date : 29-MAY-2024 11:22
InstruID : VOA9.i
LabSampID : VSTD001

Acrolein (107-02-8)

Reason Code:

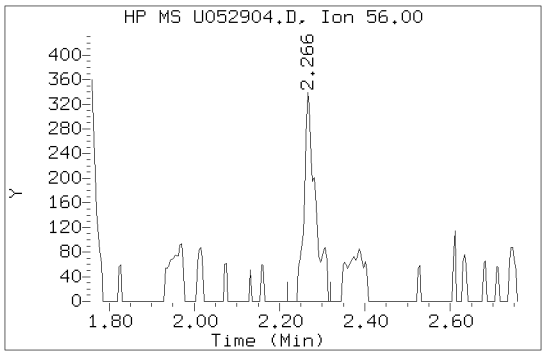
BEFORE

MASS
56
AREA
625
HEIGHT
339
06-Jun-2024
17:10
s
zaid



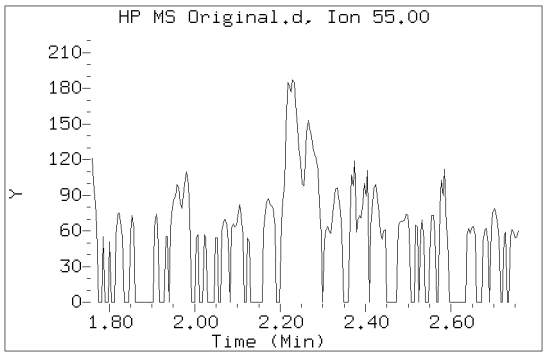
AFTER

MASS
56
AREA
625
HEIGHT
339
06-Jun-2024
17:10
s
zaid



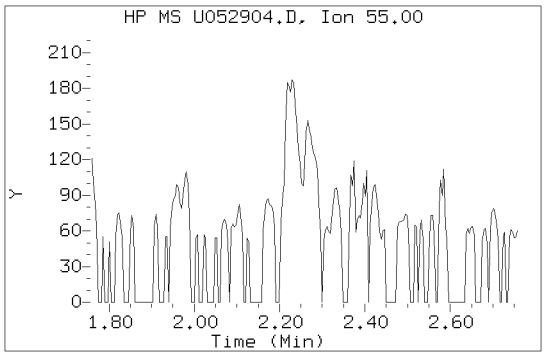
BEFORE

MASS
55
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
55
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid

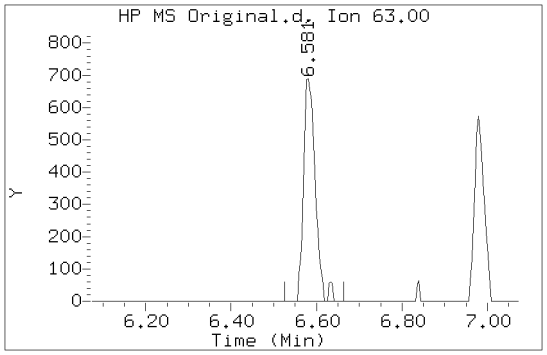


2-Chloroethylvinyl ether (110-75-8)

Reason Code:

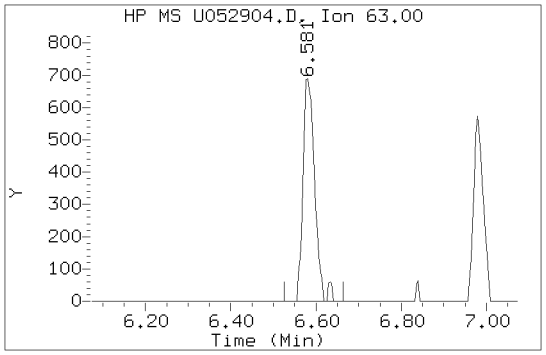
BEFORE

MASS
63
AREA
1330
HEIGHT
689
06-Jun-2024
17:10
s
zaid



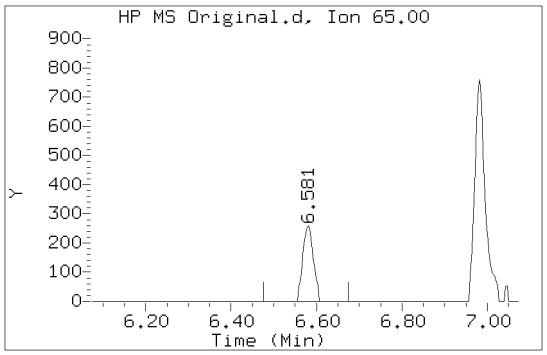
AFTER

MASS
63
AREA
1330
HEIGHT
689
06-Jun-2024
17:10
s
zaid



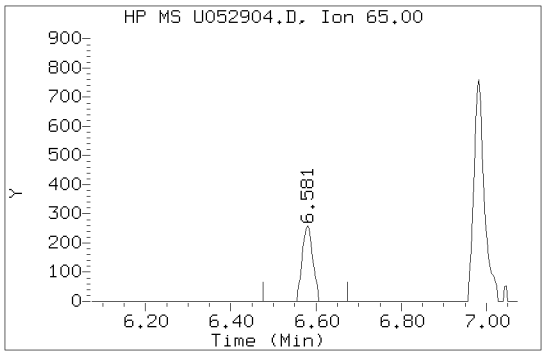
BEFORE

MASS
65
AREA
450
HEIGHT
260
06-Jun-2024
17:10
s
zaid



AFTER

MASS
65
AREA
450
HEIGHT
260
06-Jun-2024
17:10
s
zaid



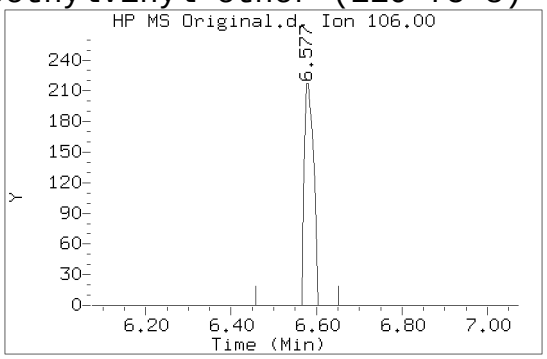
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052904.D
Inj Date : 29-MAY-2024 11:22
InstruID : VOA9.i
LabSampID : VSTD001

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

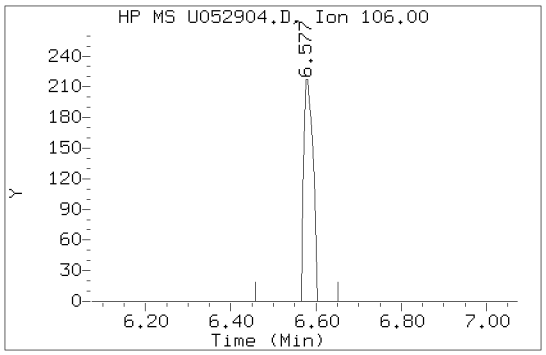
BEFORE

MASS
106
AREA
326
HEIGHT
217
06-Jun-2024
17:10
s
zaid



AFTER

MASS
106
AREA
326
HEIGHT
217
06-Jun-2024
17:10
s
zaid

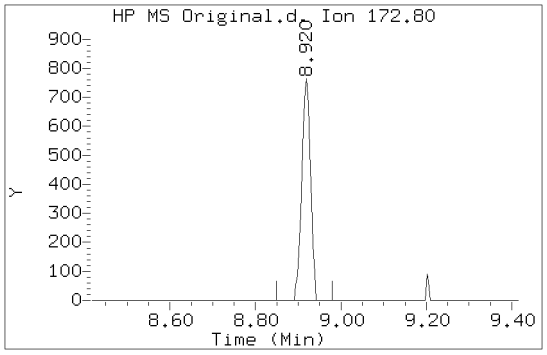


Bromoform (75-25-2)

Reason Code:

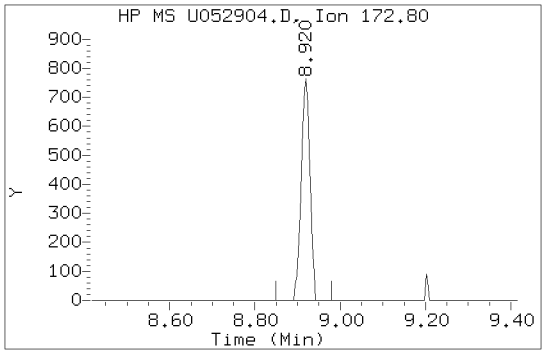
BEFORE

MASS
172.8
AREA
1114
HEIGHT
764
06-Jun-2024
17:10
s
zaid



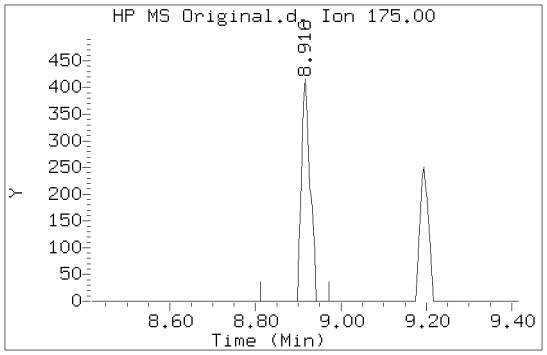
AFTER

MASS
172.8
AREA
1114
HEIGHT
764
06-Jun-2024
17:10
s
zaid



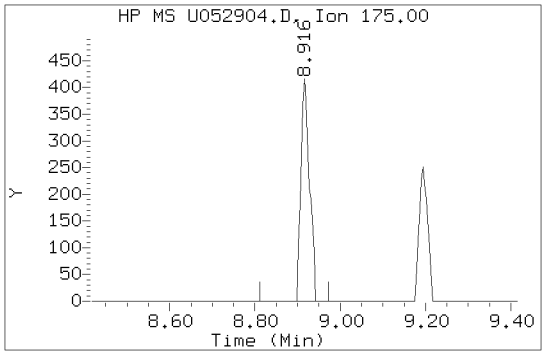
BEFORE

MASS
175
AREA
594
HEIGHT
416
06-Jun-2024
17:10
s
zaid



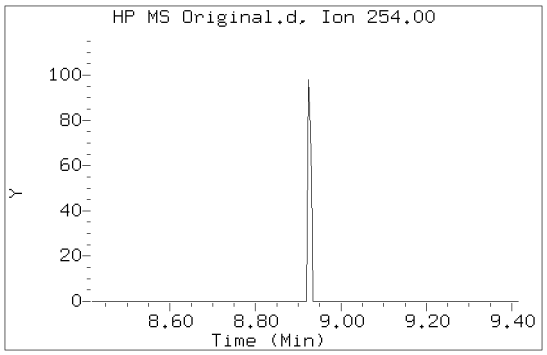
AFTER

MASS
175
AREA
594
HEIGHT
416
06-Jun-2024
17:10
s
zaid



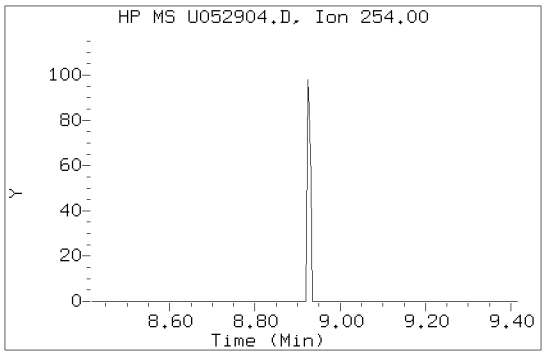
BEFORE

MASS
254
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
254
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



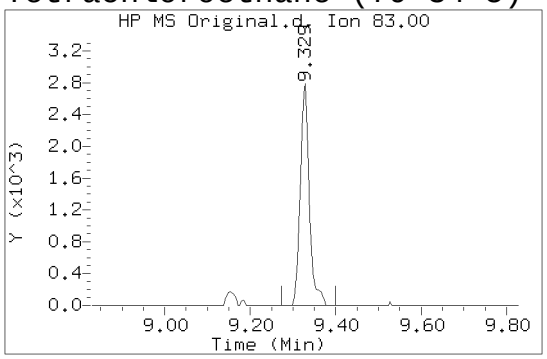
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052904.D
Inj Date : 29-MAY-2024 11:22
InstruID : VOA9.i
LabSampID : VSTD001

1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

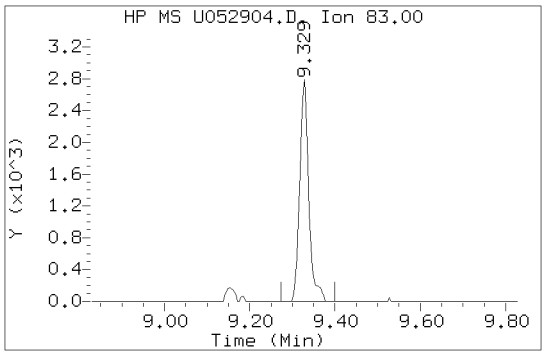
BEFORE

MASS
83
AREA
4229
HEIGHT
2788
06-Jun-2024
17:10
s
zaid



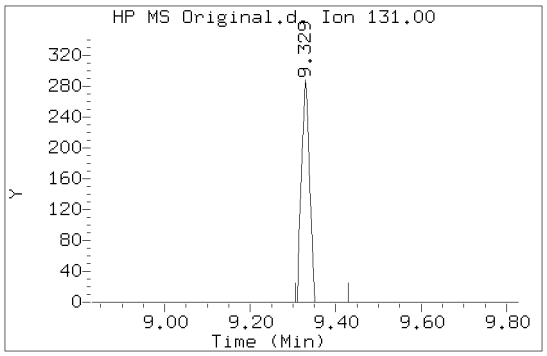
AFTER

MASS
83
AREA
4229
HEIGHT
2788
06-Jun-2024
17:10
s
zaid



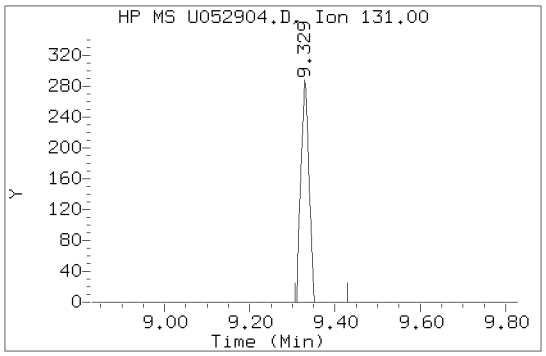
BEFORE

MASS
131
AREA
390
HEIGHT
288
06-Jun-2024
17:10
s
zaid



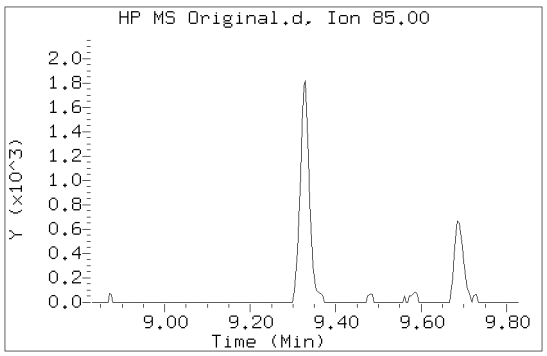
AFTER

MASS
131
AREA
390
HEIGHT
288
06-Jun-2024
17:10
s
zaid



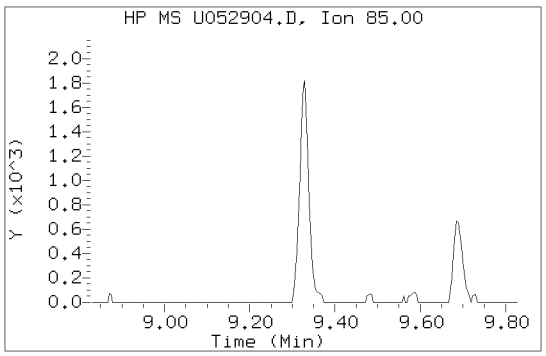
BEFORE

MASS
85
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
85
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid

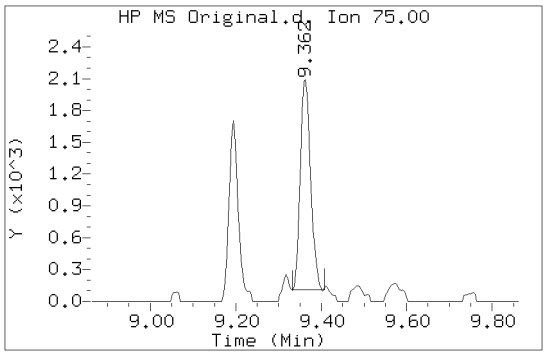


1,2,3-Trichloropropane (96-18-4)

Reason Code:

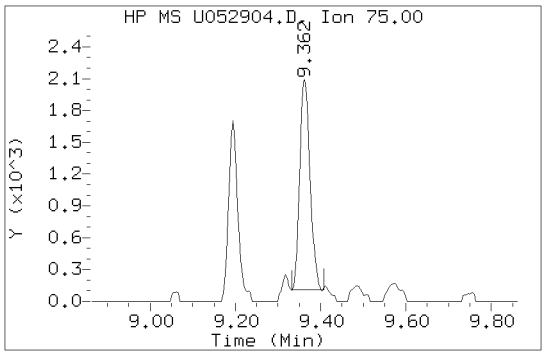
BEFORE

MASS
75
AREA
3399
HEIGHT
1982
06-Jun-2024
17:10
s
zaid



AFTER

MASS
75
AREA
3399
HEIGHT
1982
06-Jun-2024
17:10
s
zaid



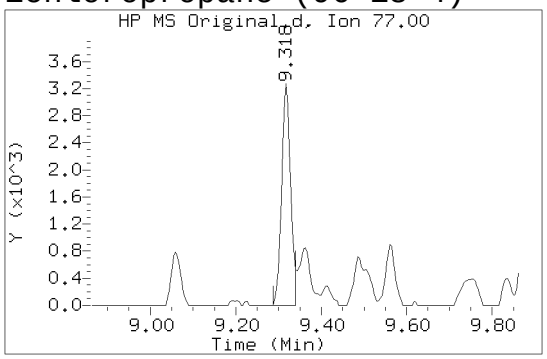
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052904.D
Inj Date : 29-MAY-2024 11:22
InstruID : VOA9.i
LabSampID : VSTD001

1,2,3-Trichloropropane (96-18-4)

Reason Code:

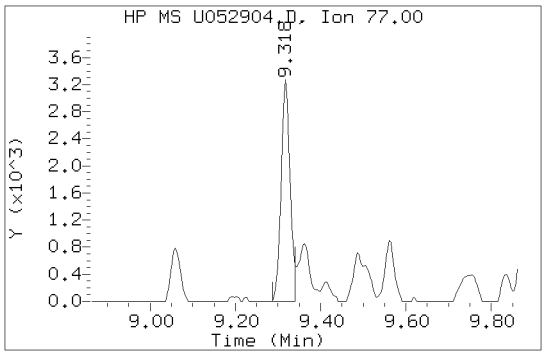
BEFORE

MASS
77
AREA
4795
HEIGHT
3273
06-Jun-2024
17:10
s
zaid



AFTER

MASS
77
AREA
4795
HEIGHT
3273
06-Jun-2024
17:10
s
zaid

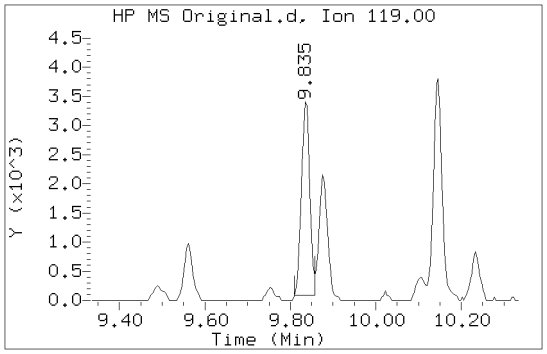


tert-Butylbenzene (98-06-6)

Reason Code:

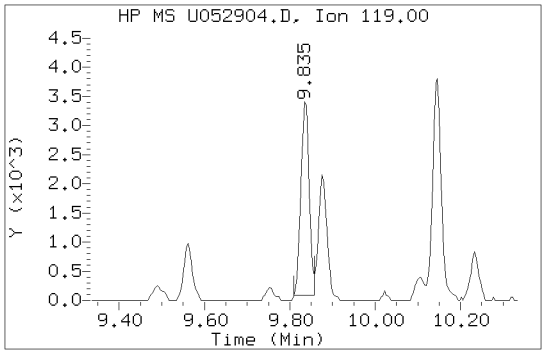
BEFORE

MASS
119
AREA
4628
HEIGHT
3320
06-Jun-2024
17:10
s
zaid



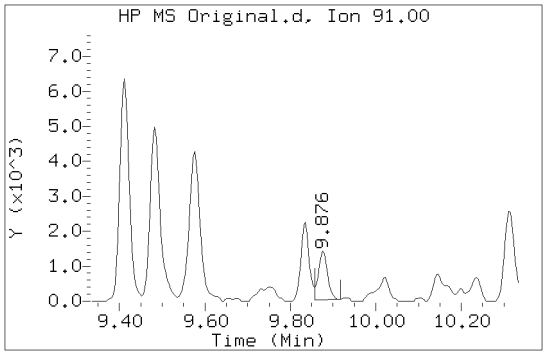
AFTER

MASS
119
AREA
4628
HEIGHT
3320
06-Jun-2024
17:10
s
zaid



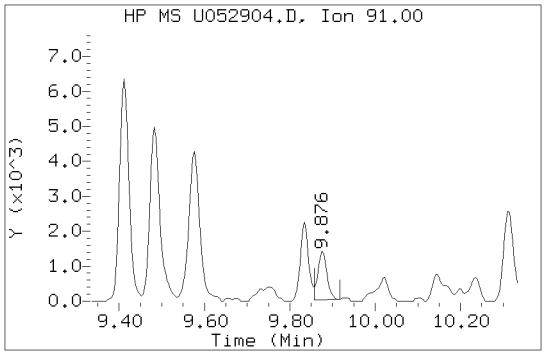
BEFORE

MASS
91
AREA
2049
HEIGHT
1380
06-Jun-2024
17:10
s
zaid



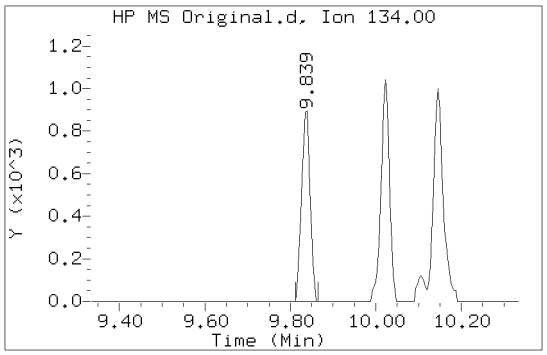
AFTER

MASS
91
AREA
2049
HEIGHT
1380
06-Jun-2024
17:10
s
zaid



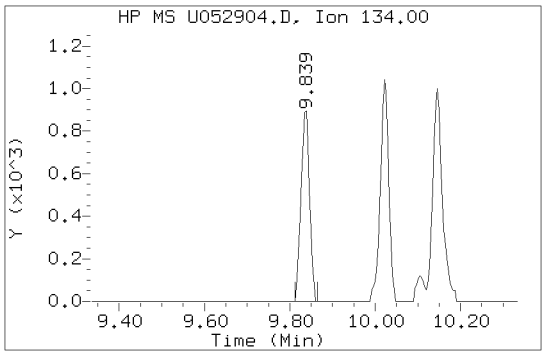
BEFORE

MASS
134
AREA
1283
HEIGHT
894
06-Jun-2024
17:10
s
zaid



AFTER

MASS
134
AREA
1283
HEIGHT
894
06-Jun-2024
17:10
s
zaid



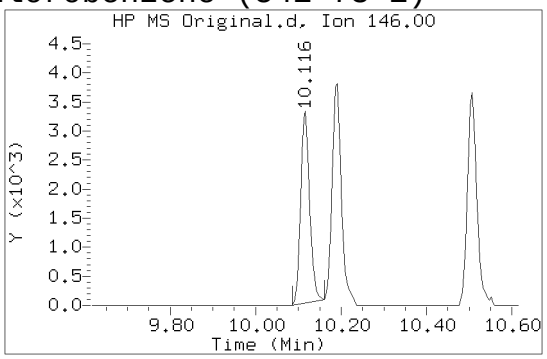
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052904.D
Inj Date : 29-MAY-2024 11:22
InstruID : VOA9.i
LabSampID : VSTD001

1,3-Dichlorobenzene (541-73-1)

Reason Code:

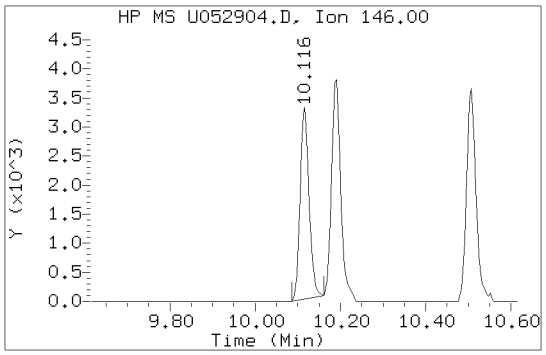
BEFORE

MASS
146
AREA
4916
HEIGHT
3297
06-Jun-2024
17:10
s
zaid



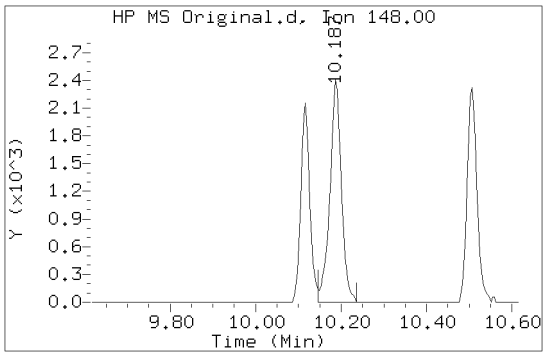
AFTER

MASS
146
AREA
4916
HEIGHT
3297
06-Jun-2024
17:10
s
zaid



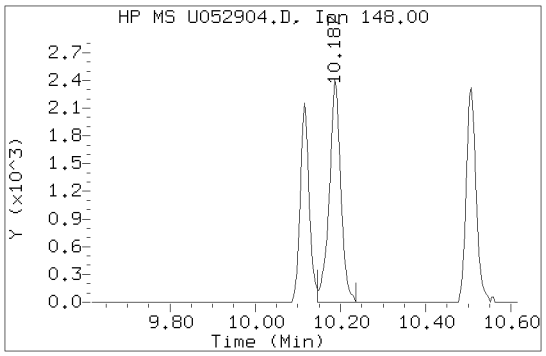
BEFORE

MASS
148
AREA
4504
HEIGHT
2405
06-Jun-2024
17:10
s
zaid



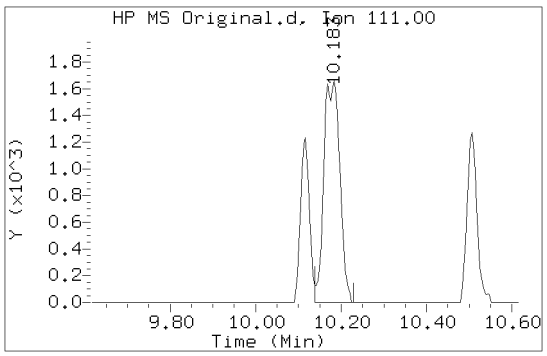
AFTER

MASS
148
AREA
4504
HEIGHT
2405
06-Jun-2024
17:10
s
zaid



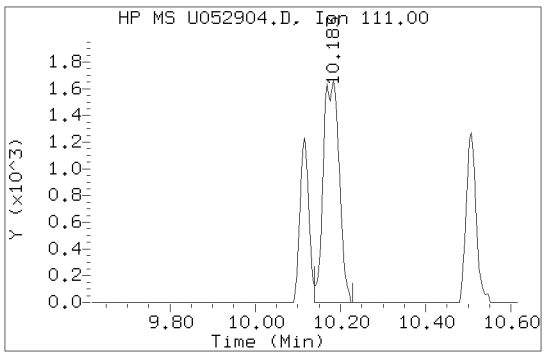
BEFORE

MASS
111
AREA
4324
HEIGHT
1660
06-Jun-2024
17:10
s
zaid



AFTER

MASS
111
AREA
4324
HEIGHT
1660
06-Jun-2024
17:10
s
zaid

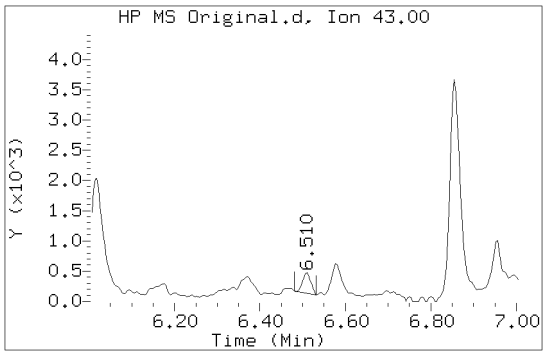


2-Nitropropane (79-46-9)

Reason Code:

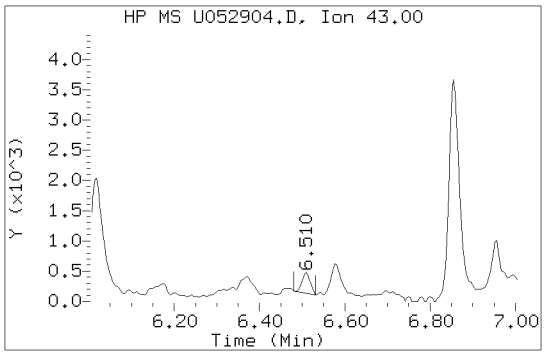
BEFORE

MASS
43
AREA
456
HEIGHT
337
06-Jun-2024
17:10
s
zaid



AFTER

MASS
43
AREA
456
HEIGHT
337
06-Jun-2024
17:10
s
zaid



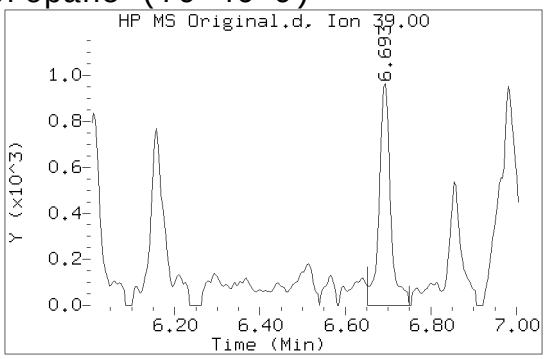
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052904.D
Inj Date : 29-MAY-2024 11:22
InstruID : VOA9.i
LabSampID : VSTD001

2-Nitropropane (79-46-9)

Reason Code:

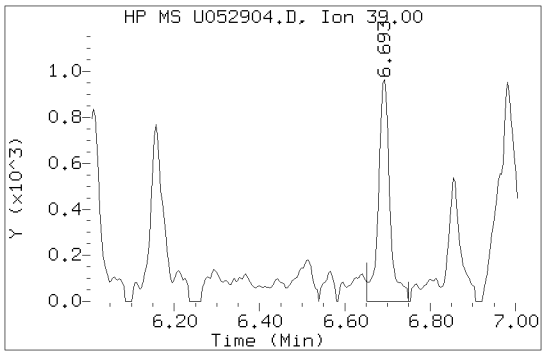
BEFORE

MASS
39
AREA
1799
HEIGHT
964
06-Jun-2024
17:10
s
zaid



AFTER

MASS
39
AREA
1799
HEIGHT
964
06-Jun-2024
17:10
s
zaid

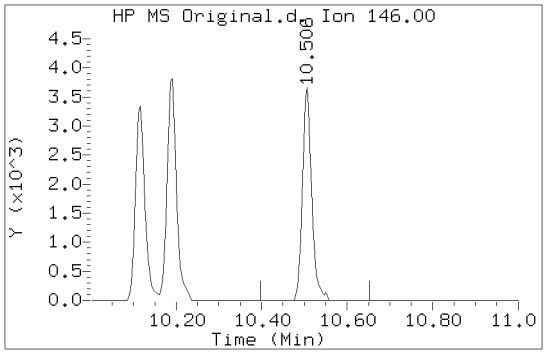


1,2-Dichlorobenzene (95-50-1)

Reason Code:

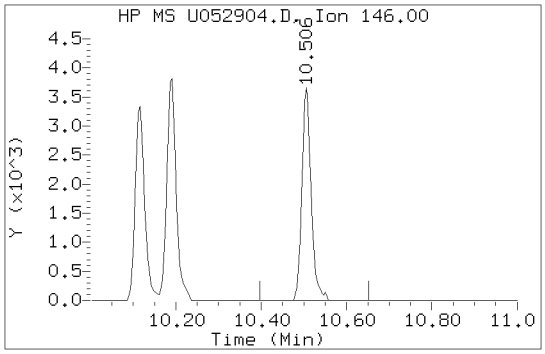
BEFORE

MASS
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AREA
5651
HEIGHT
3662
06-Jun-2024
17:10
s
zaid



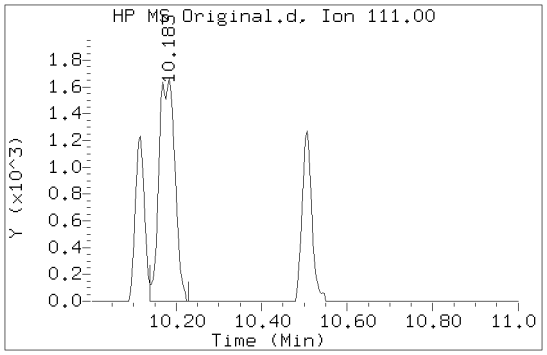
AFTER

MASS
146
AREA
5651
HEIGHT
3662
06-Jun-2024
17:10
s
zaid



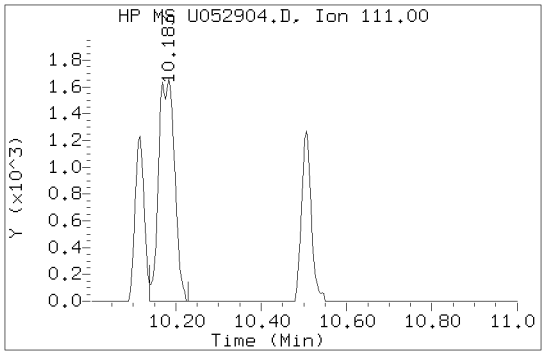
BEFORE

MASS
111
AREA
4324
HEIGHT
1660
06-Jun-2024
17:10
s
zaid



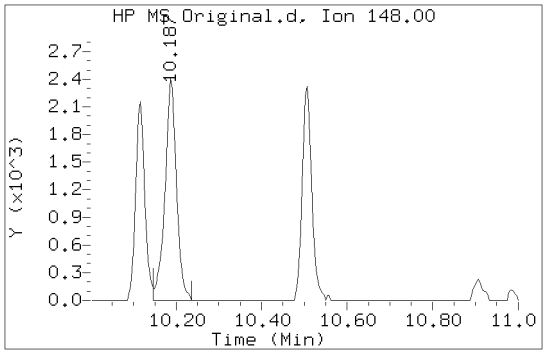
AFTER

MASS
111
AREA
4324
HEIGHT
1660
06-Jun-2024
17:10
s
zaid



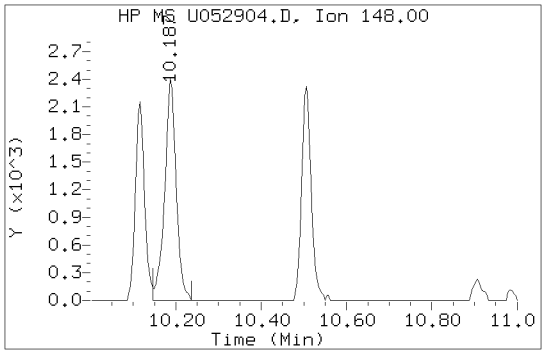
BEFORE

MASS
148
AREA
4504
HEIGHT
2405
06-Jun-2024
17:10
s
zaid



AFTER

MASS
148
AREA
4504
HEIGHT
2405
06-Jun-2024
17:10
s
zaid



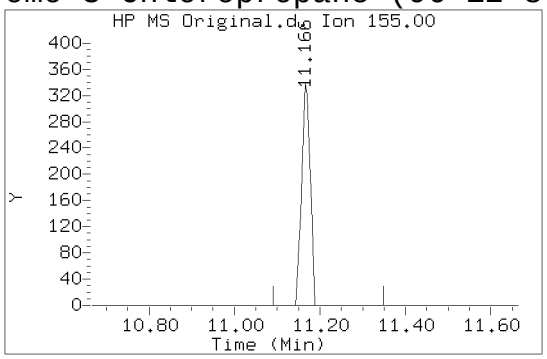
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Inj Date : 29-MAY-2024 11:22
InstruID : VOA9.i
LabSampID : VSTD001

1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

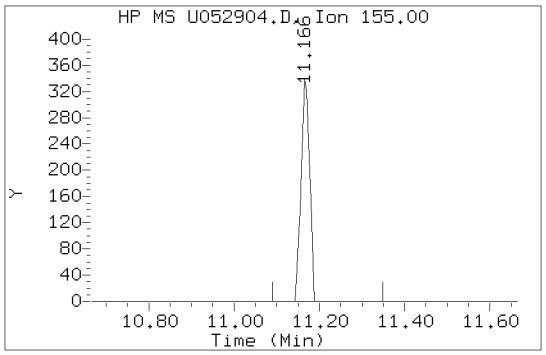
BEFORE

MASS
155
AREA
485
HEIGHT
338
06-Jun-2024
17:10
s
zaid



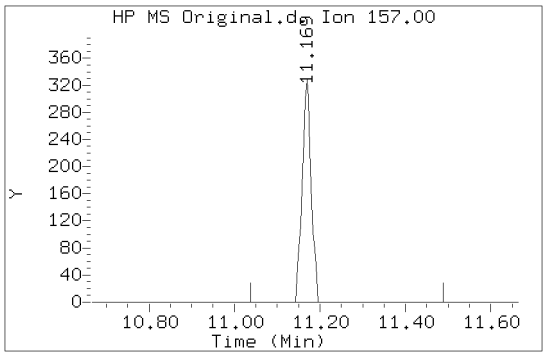
AFTER

MASS
155
AREA
485
HEIGHT
338
06-Jun-2024
17:10
s
zaid



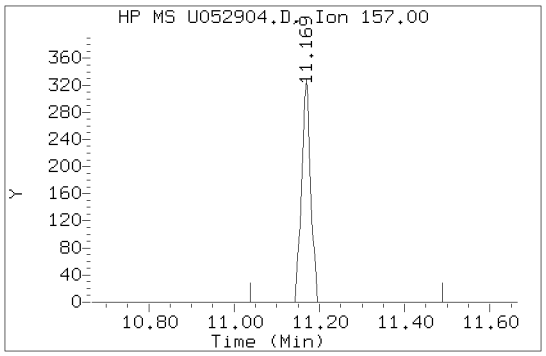
BEFORE

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157
AREA
493
HEIGHT
328
06-Jun-2024
17:10
s
zaid



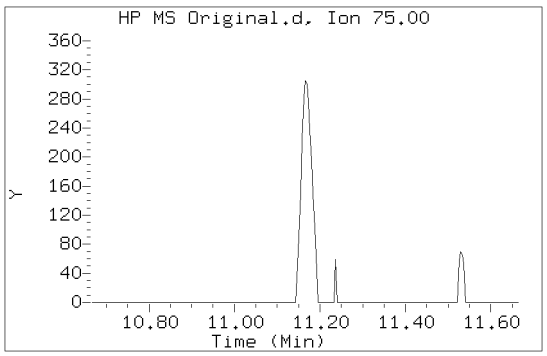
AFTER

MASS
157
AREA
493
HEIGHT
328
06-Jun-2024
17:10
s
zaid



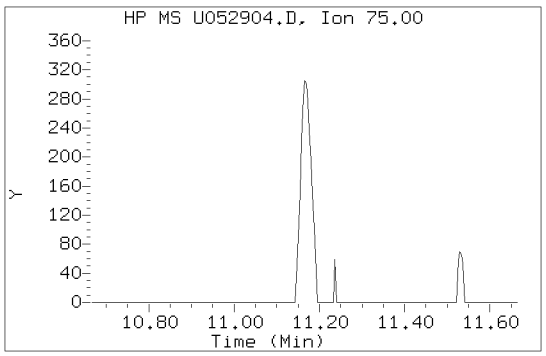
BEFORE

MASS
75
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
75
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid

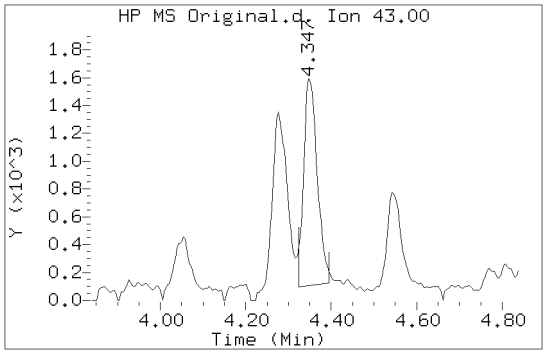


Ethyl Acetate (141-78-6)

Reason Code:

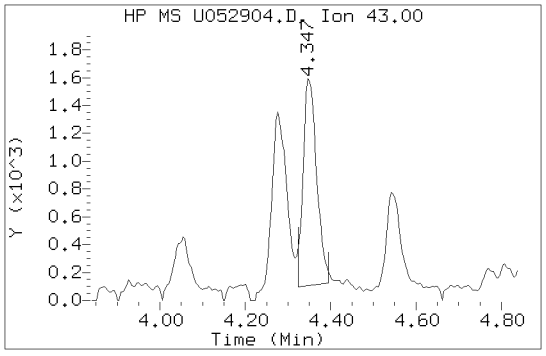
BEFORE

MASS
43
AREA
3313
HEIGHT
1487
06-Jun-2024
17:10
s
zaid



AFTER

MASS
43
AREA
3313
HEIGHT
1487
06-Jun-2024
17:10
s
zaid



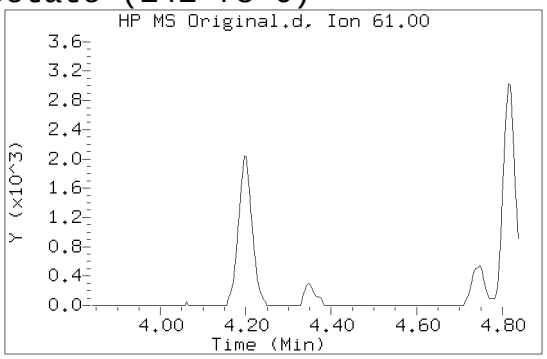
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052904.D
Inj Date : 29-MAY-2024 11:22
InstruID : VOA9.i
LabSampID : VSTD001

Ethyl Acetate (141-78-6)

Reason Code:

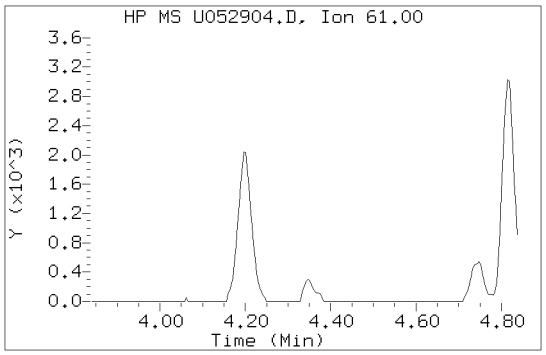
BEFORE

MASS
61
AREA
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HEIGHT
0
06-Jun-2024
17:10
s
zaid



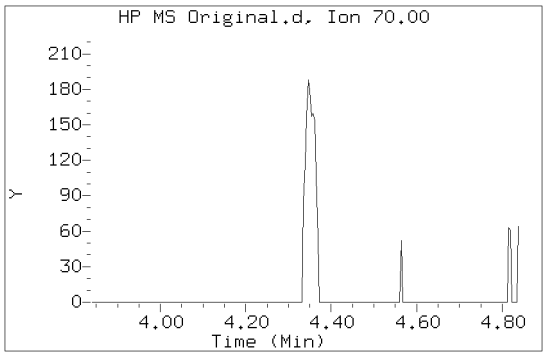
AFTER

MASS
61
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



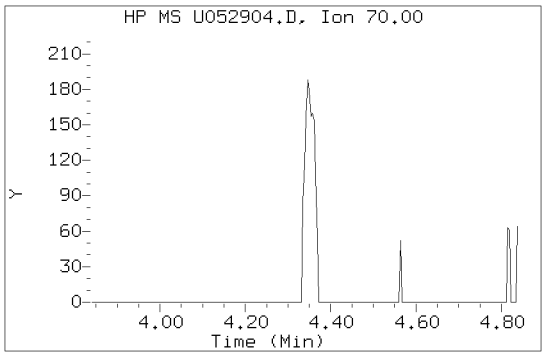
BEFORE

MASS
70
AREA
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HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
70
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid

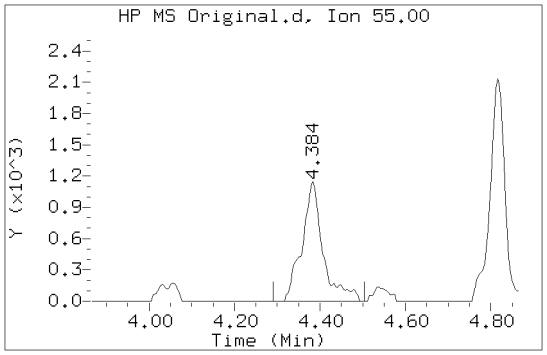


Methyl Acrylate (96-33-3)

Reason Code:

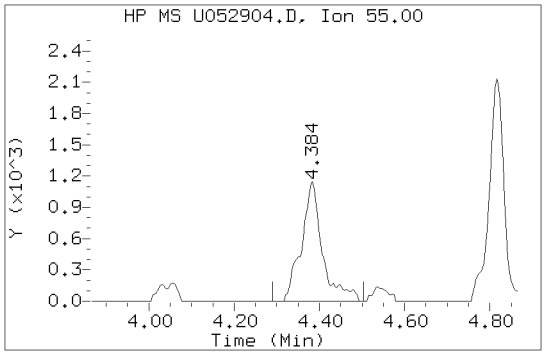
BEFORE

MASS
55
AREA
3957
HEIGHT
1149
06-Jun-2024
17:10
s
zaid



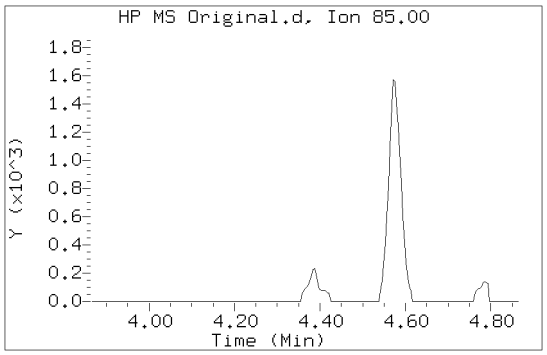
AFTER

MASS
55
AREA
3957
HEIGHT
1149
06-Jun-2024
17:10
s
zaid



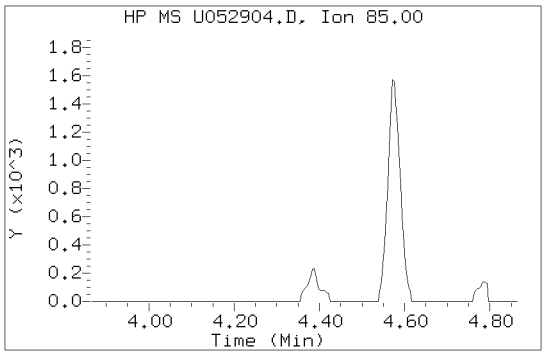
BEFORE

MASS
85
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
85
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



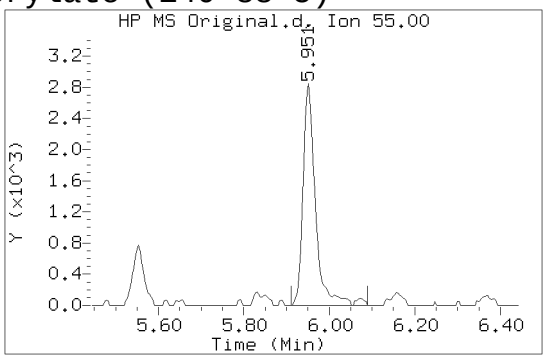
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052904.D
Inj Date : 29-MAY-2024 11:22
InstruID : VOA9.i
LabSampID : VSTD001

Ethyl Acrylate (140-88-5)

Reason Code:

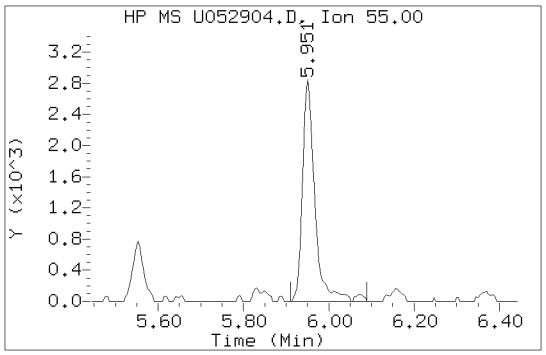
BEFORE

MASS
55
AREA
5916
HEIGHT
2846
06-Jun-2024
17:10
s
zaid



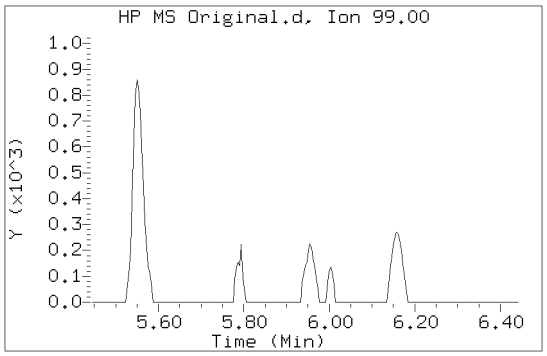
AFTER

MASS
55
AREA
5916
HEIGHT
2846
06-Jun-2024
17:10
s
zaid



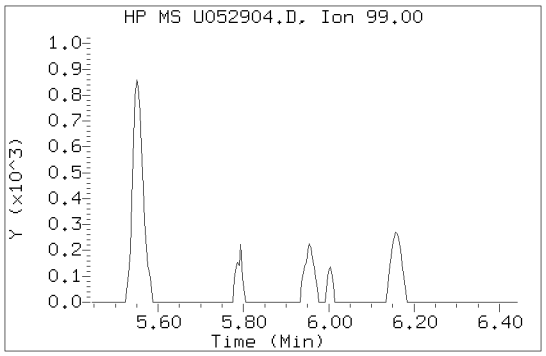
BEFORE

MASS
99
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
99
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid

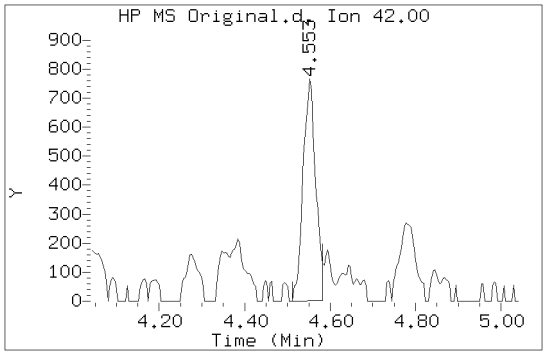


Tetrahydrofuran (109-99-9)

Reason Code:

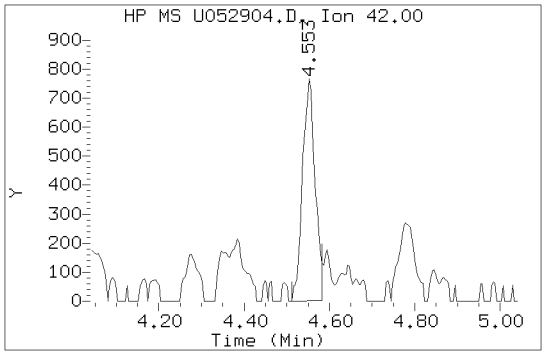
BEFORE

MASS
42
AREA
1587
HEIGHT
764
06-Jun-2024
17:10
s
zaid



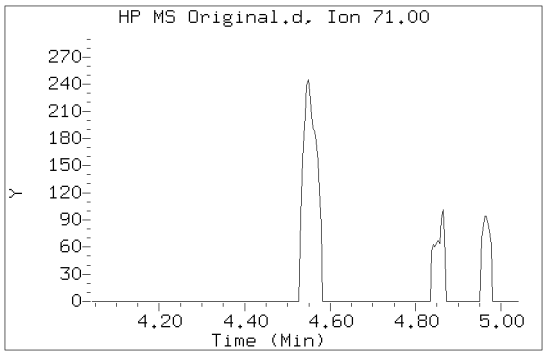
AFTER

MASS
42
AREA
1587
HEIGHT
764
06-Jun-2024
17:10
s
zaid



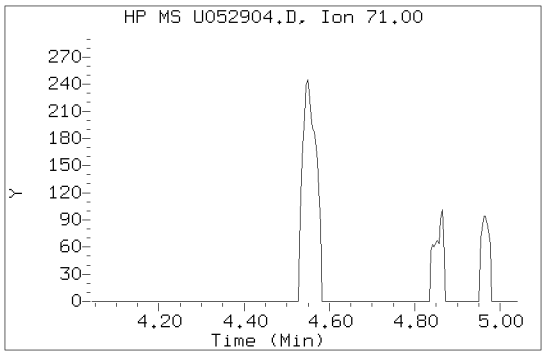
BEFORE

MASS
71
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
71
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



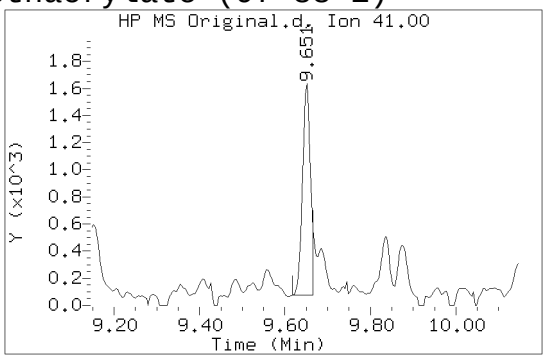
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052904.D
Inj Date : 29-MAY-2024 11:22
InstruID : VOA9.i
LabSampID : VSTD001

Butyl methacrylate (97-88-1)

Reason Code:

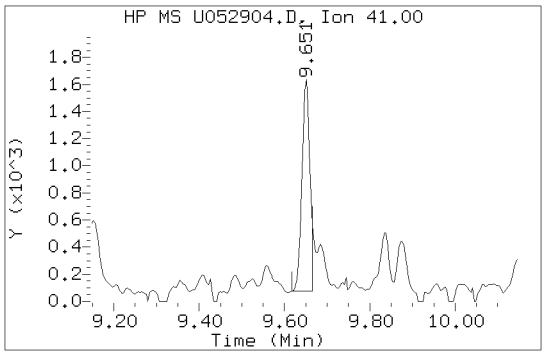
BEFORE

MASS
41
AREA
2085
HEIGHT
1559
06-Jun-2024
17:10
s
zaid



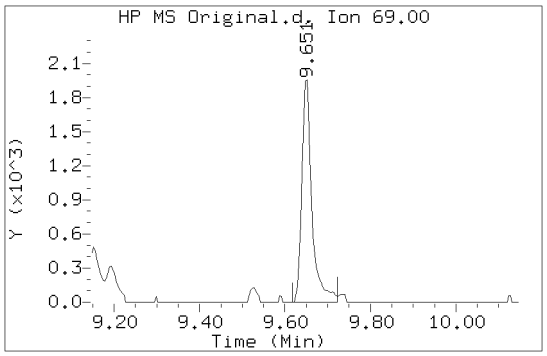
AFTER

MASS
41
AREA
2085
HEIGHT
1559
06-Jun-2024
17:10
s
zaid



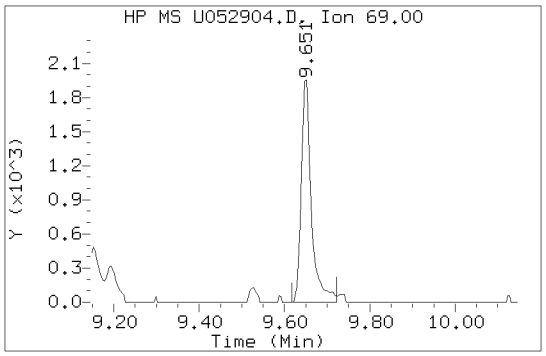
BEFORE

MASS
69
AREA
3292
HEIGHT
1955
06-Jun-2024
17:10
s
zaid



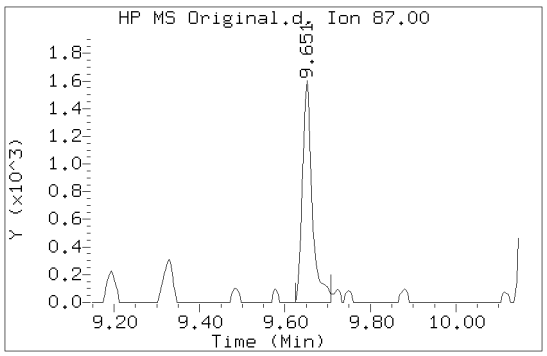
AFTER

MASS
69
AREA
3292
HEIGHT
1955
06-Jun-2024
17:10
s
zaid



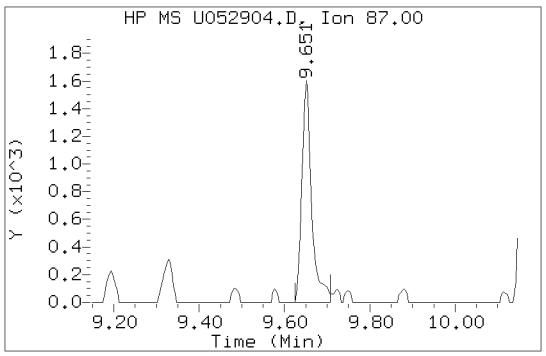
BEFORE

MASS
87
AREA
2619
HEIGHT
1602
06-Jun-2024
17:10
s
zaid



AFTER

MASS
87
AREA
2619
HEIGHT
1602
06-Jun-2024
17:10
s
zaid

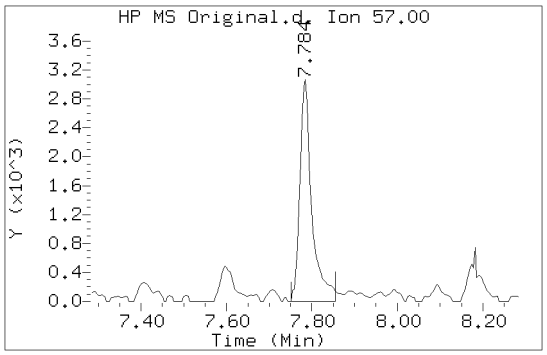


3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

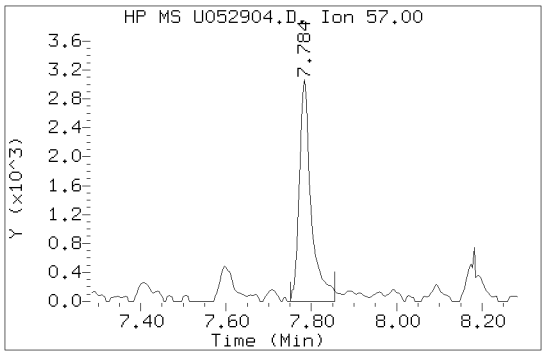
BEFORE

MASS
57
AREA
6038
HEIGHT
3064
06-Jun-2024
17:10
s
zaid



AFTER

MASS
57
AREA
6038
HEIGHT
3064
06-Jun-2024
17:10
s
zaid

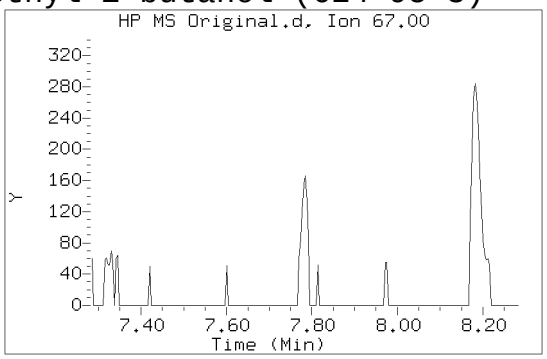


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052904.D
Inj Date : 29-MAY-2024 11:22
InstruID : VOA9.i
LabSampID : VSTD001

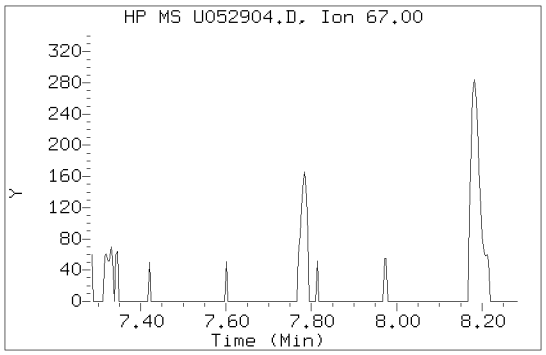
3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

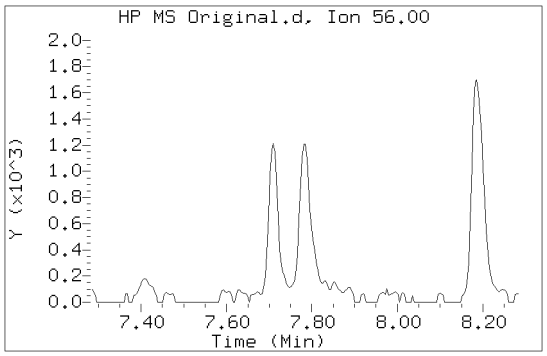
BEFORE
MASS
67
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



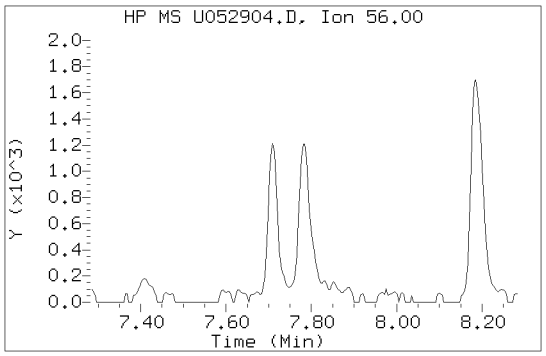
AFTER
MASS
67
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



BEFORE
MASS
56
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



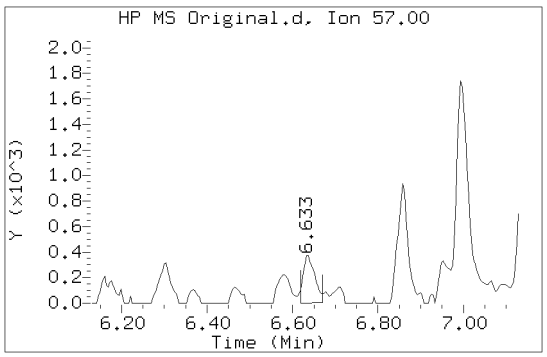
AFTER
MASS
56
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



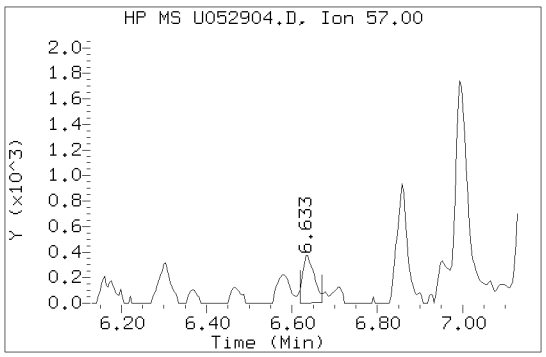
Epichlorohydrin (106-89-8)

Reason Code:

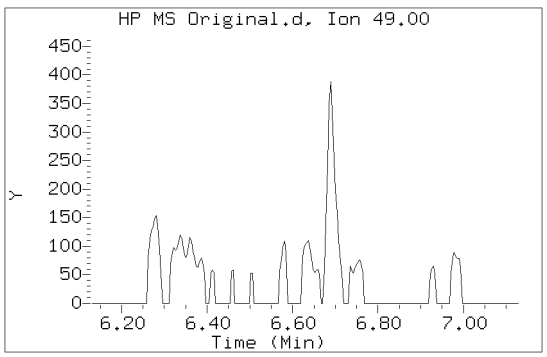
BEFORE
MASS
57
AREA
718
HEIGHT
371
06-Jun-2024
17:10
s
zaid



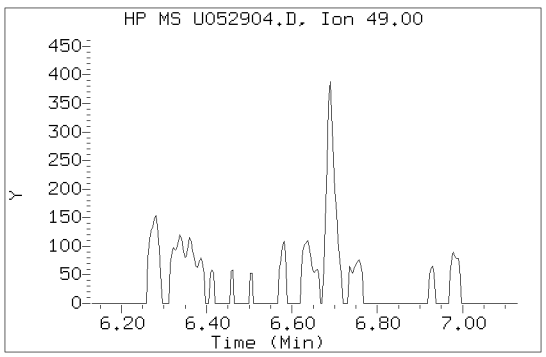
AFTER
MASS
57
AREA
718
HEIGHT
371
06-Jun-2024
17:10
s
zaid



BEFORE
MASS
49
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER
MASS
49
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



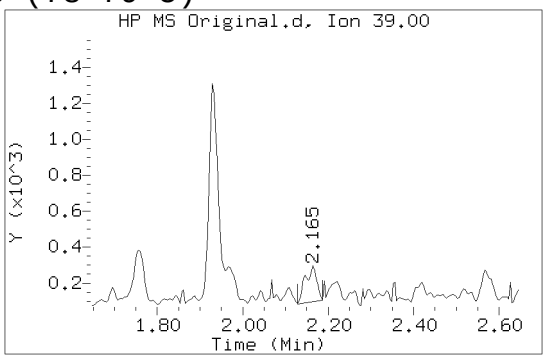
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052904.D
Inj Date : 29-MAY-2024 11:22
InstruID : VOA9.i
LabSampID : VSTD001

Isoprene (78-79-5)

Reason Code:

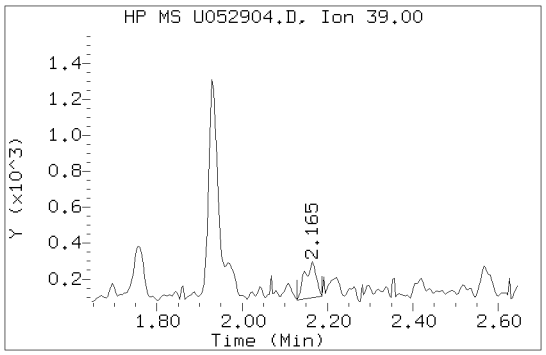
BEFORE

MASS
39
AREA
375
HEIGHT
200
06-Jun-2024
17:10
s
zaid



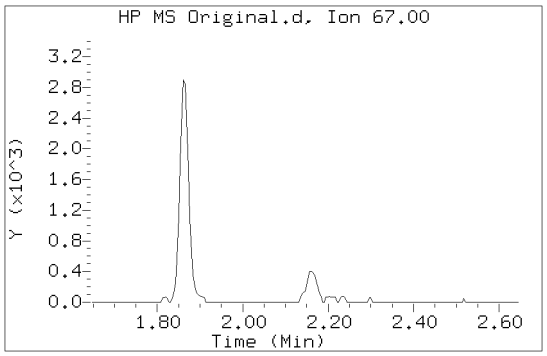
AFTER

MASS
39
AREA
375
HEIGHT
200
06-Jun-2024
17:10
s
zaid



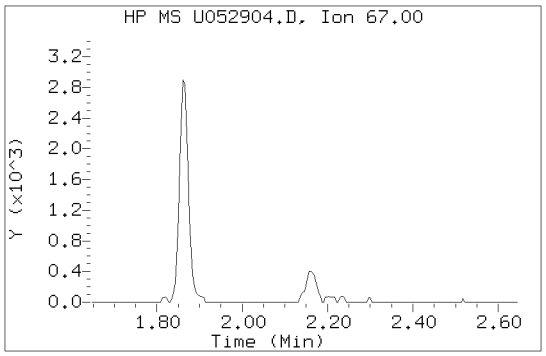
BEFORE

MASS
67
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



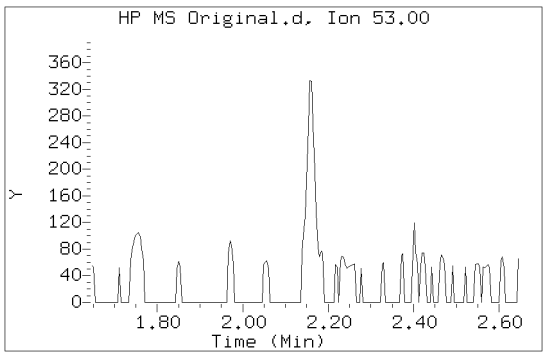
AFTER

MASS
67
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



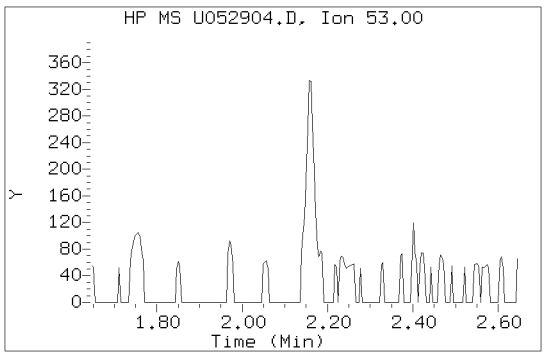
BEFORE

MASS
53
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
53
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid

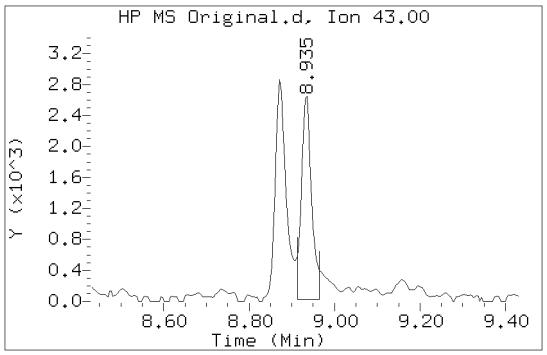


n-Amyl acetate (628-63-7)

Reason Code:

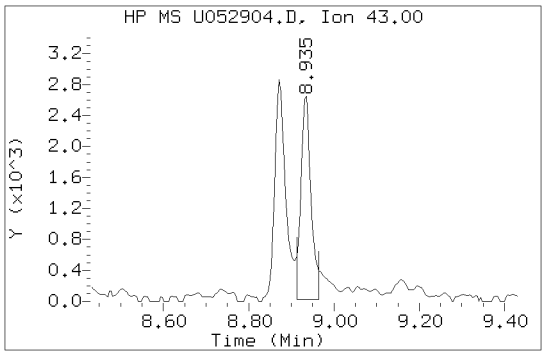
BEFORE

MASS
43
AREA
4502
HEIGHT
2621
06-Jun-2024
17:10
s
zaid



AFTER

MASS
43
AREA
4502
HEIGHT
2621
06-Jun-2024
17:10
s
zaid

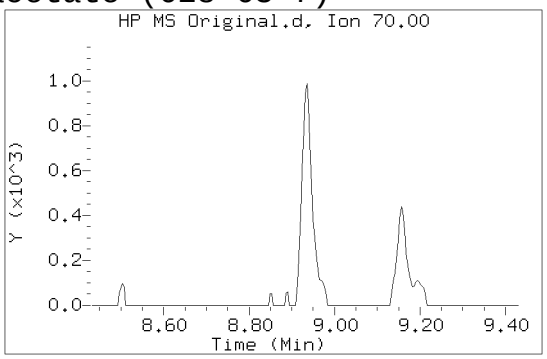


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Inj Date : 29-MAY-2024 11:22
InstruID : VOA9.i
LabSampID : VSTD001

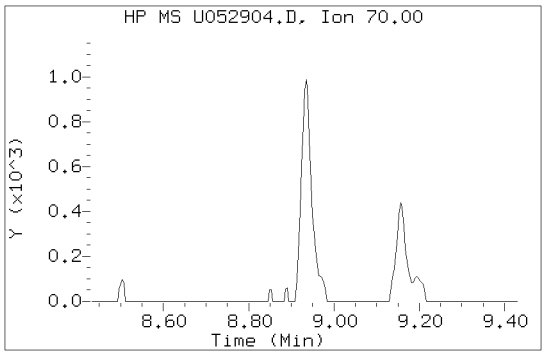
n-Amyl acetate (628-63-7)

Reason Code:

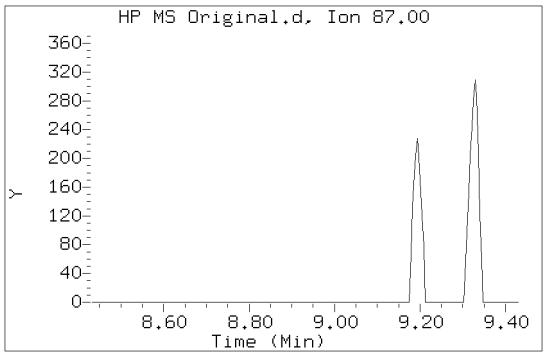
BEFORE
MASS
70
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



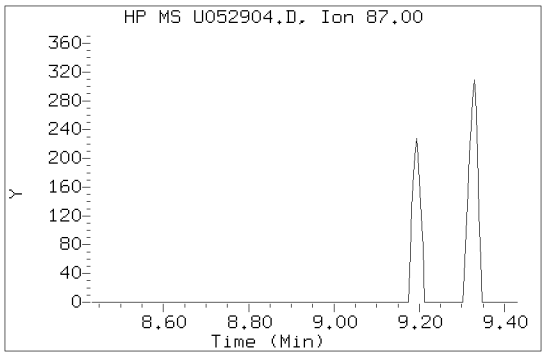
AFTER
MASS
70
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



BEFORE
MASS
87
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



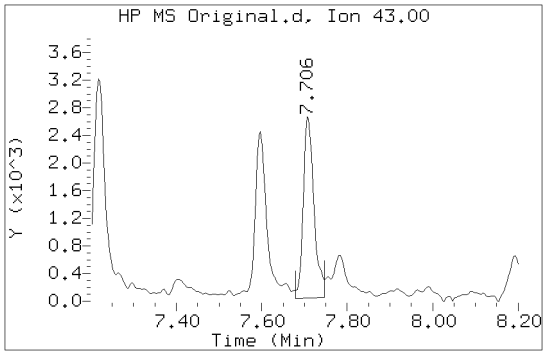
AFTER
MASS
87
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



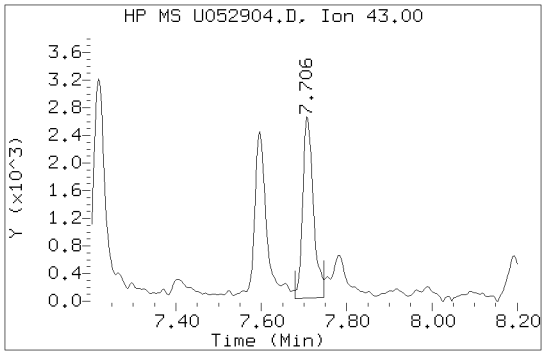
n-Butyl acetate (123-86-4)

Reason Code:

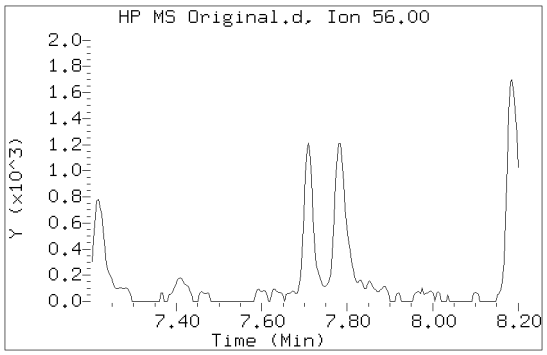
BEFORE
MASS
43
AREA
4706
HEIGHT
2627
06-Jun-2024
17:10
s
zaid



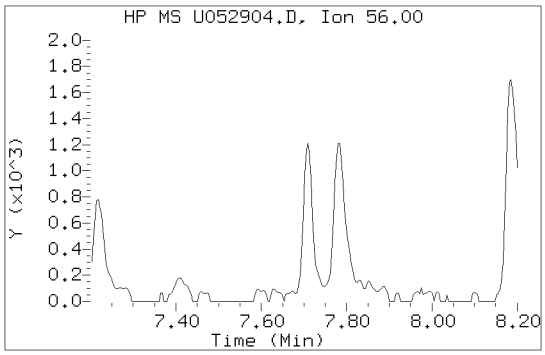
AFTER
MASS
43
AREA
4706
HEIGHT
2627
06-Jun-2024
17:10
s
zaid



BEFORE
MASS
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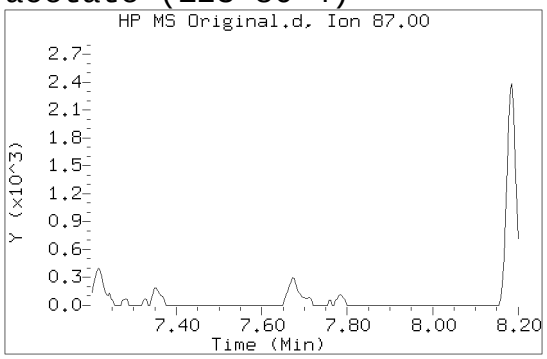
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InstruID : VOA9.i
LabSampID : VSTD001

n-Butyl acetate (123-86-4)

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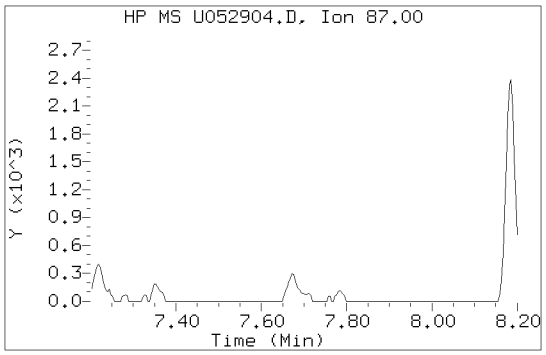
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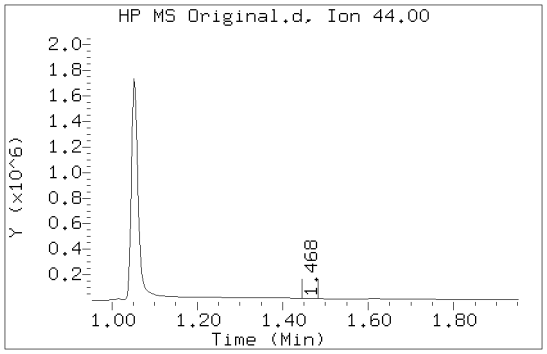


Acetaldehyde (75-07-0)

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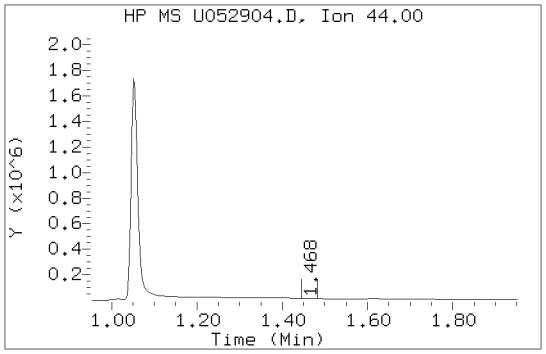
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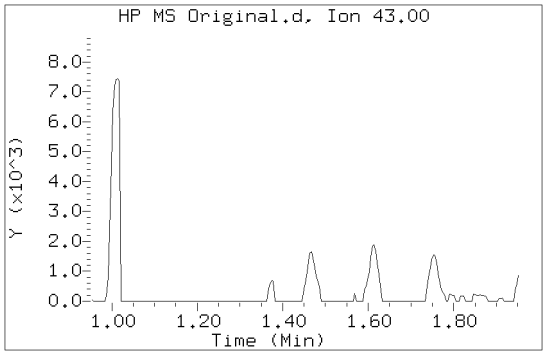
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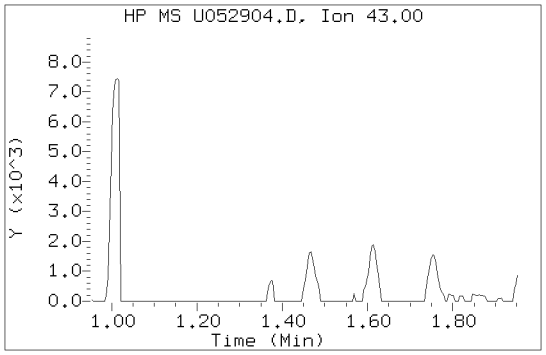
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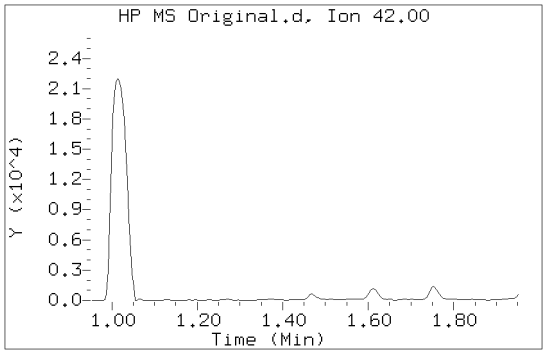
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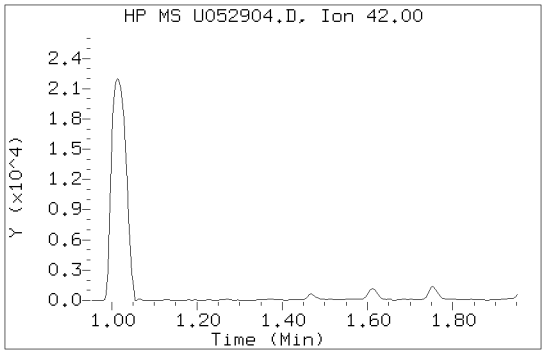
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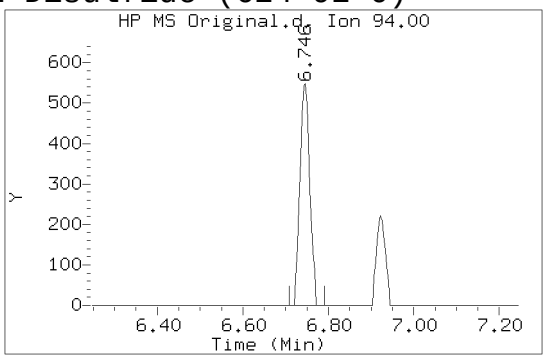


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LabSampID : VSTD001

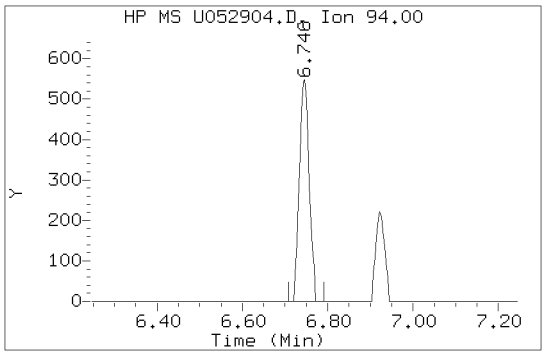
Dimethyl Disulfide (624-92-0)

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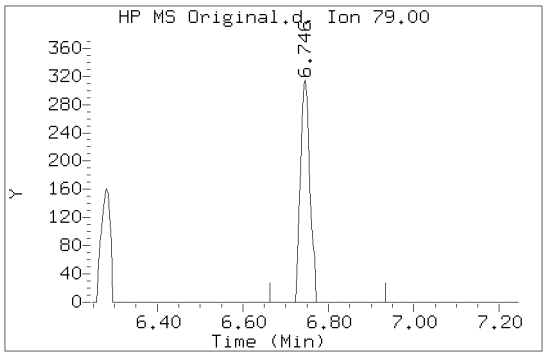
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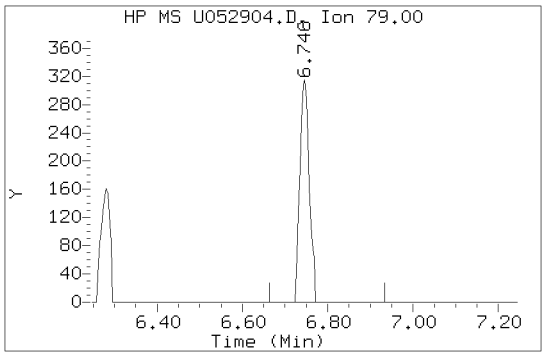
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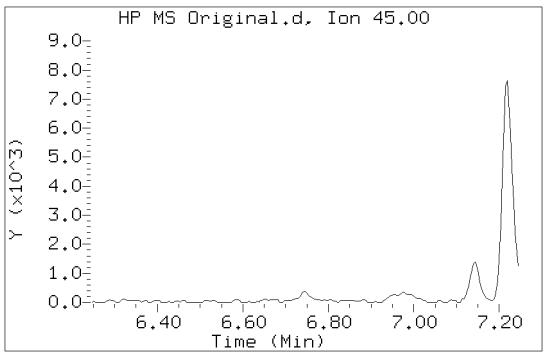
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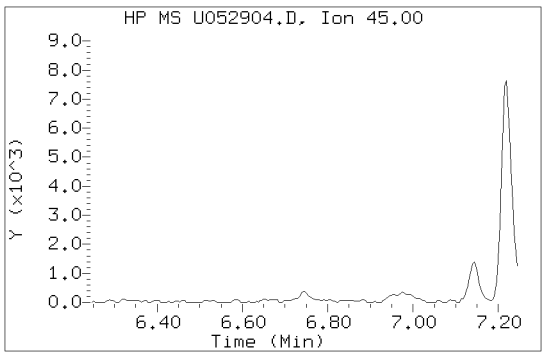
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BEFORE
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06-Jun-2024
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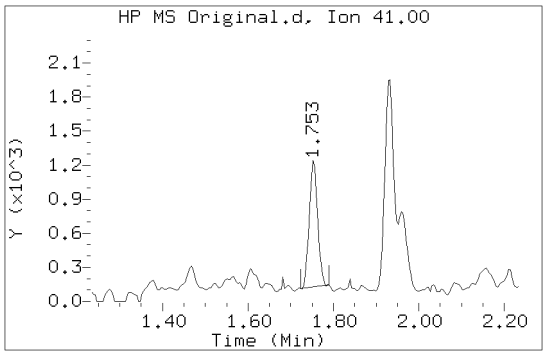
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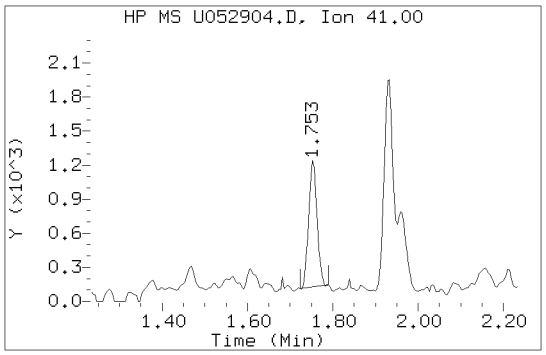
Isobutylene (115-11-7)

Reason Code:

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06-Jun-2024
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AFTER
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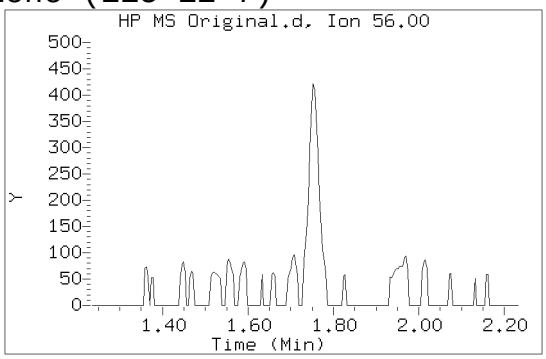
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LabSampID : VSTD001

Isobutylene (115-11-7)

Reason Code:

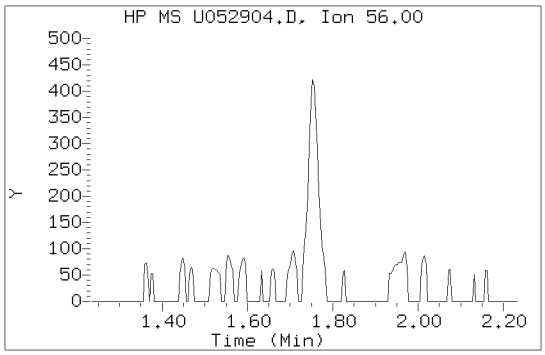
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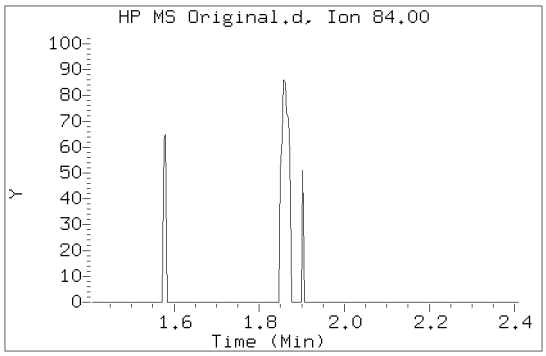
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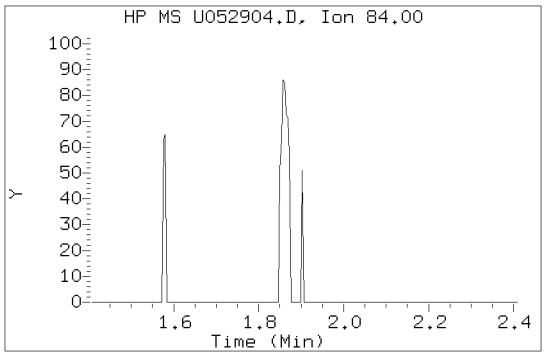
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AFTER

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Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052905.D Page 1
Report Date: 07-Jun-2024 10:54

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052905.D
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Inj Date : 29-MAY-2024 11:43
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD002;VSTD002;1;4
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240529.b\8260C.m
Meth Date : 07-Jun-2024 10:14 r.patel Quant Type: ISTD
Cal Date : 29-MAY-2024 11:43 Cal File: U052905.D
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.811	4.811	(1.000)	285725	50.0000	
2	Dichlorodifluoromethane	85	1.156	1.156	(0.240)	2191	2.00000	2.05(M)
3	Chloromethane	50	1.288	1.288	(0.268)	12469	2.00000	2.59
4	Propionitrile	54	4.339	4.339	(0.902)	9364	20.0000	24.02(a)
5	Vinyl Chloride	62	1.370	1.366	(0.285)	4666	2.00000	2.16(M)
6	Bromomethane	94	1.610	1.595	(0.335)	3722	2.00000	2.07
7	Chloroethane	64	1.689	1.681	(0.351)	3382	2.00000	1.99(M)
8	Trichlorofluoromethane	101	1.884	1.884	(0.392)	5303	2.00000	2.06
9	Acrolein	56	2.255	2.259	(0.469)	772	4.00000	4.84(aM)
10	Acetone	43	2.401	2.405	(0.499)	6842	4.00000	6.23
11	1,1-Dichloroethene	96	2.322	2.322	(0.483)	4074	2.00000	2.16
12	Isobutyl Alcohol	43	5.280	5.284	(1.097)	15290	40.0000	36.07(a)
13	Acetonitrile	39	2.663	2.663	(0.554)	4978	20.0000	21.47(a)
14	Allyl Chloride	41	2.663	2.667	(0.554)	14793	2.00000	2.48(a)
15	Iodomethane	142	2.461	2.457	(0.512)	1323	4.00000	4.19(T)
16	Acrylonitrile	53	3.061	3.061	(0.636)	4999	4.00000	5.30
17	Methylene Chloride	84	2.787	2.783	(0.579)	7689	2.00000	2.25
18	Methyl tert-butyl ether	73	3.072	3.076	(0.639)	14737	2.00000	2.36
19	Carbon Disulfide	76	2.510	2.510	(0.522)	21847	4.00000	4.13
20	trans-1,2-Dichloroethene	96	3.050	3.050	(0.634)	4959	2.00000	2.32
21	Vinyl Acetate	43	4.339	4.339	(0.902)	5050	4.00000	4.01(M)

22 1,1-Dichloroethane	63	3.503	3.507 (0.728)	9371	2.00000	2.29
23 Chloroprene	53	3.601	3.601 (0.748)	6452	2.00000	2.15(a)

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052905.D Page 2
Report Date: 07-Jun-2024 10:54

			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
	24	2-Butanone	43	4.264	4.260	(0.886)	5834	4.00000	4.56
	25	Methacrylonitrile	41	4.493	4.489	(0.934)	3297	2.00000	2.36(a)
	26	2,2-Dichloropropane	77	4.174	4.174	(0.868)	5609	2.00000	2.08
	27	cis-1,2-Dichloroethene	96	4.189	4.189	(0.871)	6111	2.00000	2.32
	28	Chloroform	83	4.568	4.568	(0.949)	9851	2.00000	2.41
	29	Bromochloromethane	128	4.463	4.463	(0.928)	3171	2.00000	2.87
$	30	Dibromofluoromethane	113	4.744	4.744	(0.986)	5220	2.00000	2.42
	31	1,1,1-Trichloroethane	97	4.733	4.736	(0.984)	5968	2.00000	2.08
	32	1,1-Dichloropropene	75	4.916	4.916	(0.886)	6136	2.00000	2.02
	33	1,2-Dichloroethane	62	5.171	5.171	(0.932)	8149	2.00000	3.18(M)
	34	Carbon Tetrachloride	117	4.901	4.905	(0.884)	4139	2.00000	1.74(M)
$	35	1,2-Dichloroethane-d4	65	5.093	5.093	(1.058)	6748	2.00000	3.47
*	36	1,4-Difluorobenzene	114	5.546	5.550	(1.000)	418472	50.0000	
	37	Benzene	78	5.134	5.134	(0.926)	22729	2.00000	2.30
	38	Trichloroethene	130	5.786	5.786	(1.043)	5303	2.00000	2.18(a)
	39	Bromodichloromethane	83	6.273	6.277	(1.131)	5550	2.00000	2.09(aM)
	40	Methyl Methacrylate	41	5.831	5.827	(1.212)	3031	2.00000	3.43(a)
	41	2-Chloroethylvinyl ether	63	6.577	6.573	(1.186)	2568	4.00000	6.25
	42	1,2-Dichloropropane	63	6.007	6.007	(1.083)	6290	2.00000	2.41(aM)
	43	2-Nitropropane	43	6.506	6.506	(1.352)	922	2.00000	3.67(aM)
	44	Dibromomethane	93	6.116	6.116	(1.103)	3447	2.00000	2.28(a)
	45	4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	11033	4.00000	4.89(a)
	46	cis-1,3-Dichloropropene	75	6.686	6.690	(1.205)	6163	2.00000	2.61(a)
*	47	Chlorobenzene-d5	117	8.181	8.185	(1.000)	371365	50.0000	
$	48	Toluene-d8	98	6.918	6.918	(0.846)	20610	2.00000	3.10(a)
	49	Ethyl Methacrylate	69	7.289	7.289	(1.314)	7149	2.00000	2.20(a)
	50	Toluene	91	6.978	6.978	(0.853)	23051	2.00000	2.28(a)
	51	trans-1,3-Dichloropropene	75	7.196	7.196	(1.297)	4599	2.00000	2.74(a)
	52	2-Hexanone	43	7.593	7.589	(0.928)	6895	4.00000	5.96(M)
	53	1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	4925	2.00000	2.44(a)
	54	1,3-Dichloropropane	76	7.495	7.499	(0.916)	9750	2.00000	2.37(a)
	55	Dibromochloromethane	129	7.690	7.690	(0.940)	3797	2.00000	2.66(a)
	56	Tetrachloroethene	164	7.454	7.454	(0.911)	3791	2.00000	2.15(a)
	57	1,2-Dibromoethane	107	7.784	7.784	(0.951)	4959	2.00000	2.23(a)
	58	1-Chlorohexane	55	8.189	8.196	(1.476)	6859	2.00000	3.07(a)
	59	Chlorobenzene	112	8.208	8.208	(1.003)	15418	2.00000	2.40(a)
	60	1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	4377	2.00000	2.14(a)
	61	Ethylbenzene	106	8.305	8.305	(1.015)	7387	2.00000	2.51(a)
	62	m,p-Xylenes	106	8.406	8.406	(1.027)	22381	4.00000	5.03(a)
	63	o-Xylene	106	8.744	8.744	(1.069)	10205	2.00000	3.42(a)
	64	Styrene	104	8.763	8.759	(1.071)	13304	2.00000	2.16(a)
	66	Bromoform	173	8.916	8.916	(1.090)	2167	2.00000	3.05(Ta)
	67	Isopropylbenzene	105	9.059	9.059	(1.107)	19220	2.00000	2.16(a)
	68	1,1,2,2-Tetrachloroethane	83	9.325	9.329	(0.917)	7882	2.00000	2.40(a)
$	69	4-Bromofluorobenzene	95	9.194	9.190	(1.124)	8164	2.00000	3.06(a)
*	70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	197283	50.0000	
	71	1,2,3-Trichloropropane	75	9.359	9.362	(0.920)	7496	2.00000	2.43(aM)
	72	trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	1441	2.00000	2.27(a)
	73	n-Propylbenzene	91	9.411	9.411	(0.926)	22673	2.00000	2.13(a)
	74	Bromobenzene	156	9.317	9.317	(0.916)	6542	2.00000	2.41(a)
	75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	18636	2.00000	2.34(a)
	76	2-Chlorotoluene	91	9.482	9.482	(0.933)	16959	2.00000	2.28(a)

77 4-Chlorotoluene	91	9.576	9.576 (0.942)	17697	2.00000	2.31(a)
78 tert-Butylbenzene	119	9.835	9.835 (0.967)	12758	2.00000	2.13(aM)

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052905.D Page 3
Report Date: 07-Jun-2024 10:54

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	30038	2.00000	2.37(a)
81	sec-Butylbenzene	105	10.018	10.022	(0.985)	16983	2.00000	2.09(a)
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	14816	2.00000	2.09(a)
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.995)	10883	2.00000	2.37(aM)
84	1,4-Dichlorobenzene	146	10.187	10.191	(1.002)	12375	2.00000	2.43(a)
86	Benzyl Chloride	91	10.311	10.311	(1.260)	7262	2.00000	3.61(a)
87	n-Butylbenzene	91	10.491	10.491	(1.032)	14661	2.00000	2.58(a)
88	1,2-Dichlorobenzene	146	10.506	10.502	(1.033)	11285	2.00000	2.37(aM)
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	786	2.00000	2.76(a)
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	6993	2.00000	2.33(a)
91	Hexachlorobutadiene	225	11.994	11.998	(1.180)	2656	2.00000	2.21(a)
92	Naphthalene	128	12.069	12.065	(1.187)	19031	2.00000	2.50(a)
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	6570	2.00000	2.35(a)
146	Methyl acetate	43	2.708	2.708	(0.563)	6657	2.00000	3.18(a)
138	Freon TF	101	2.322	2.326	(0.483)	2974	2.00000	2.33(a)
141	Cyclohexane	56	4.808	4.778	(0.999)	9727	2.00000	2.48(aM)
142	Tetrahydrofuran	42	4.541	4.542	(0.944)	2424	4.00000	4.07(a)
147	Methylcyclohexane	55	5.944	5.944	(1.072)	9698	2.00000	2.49(a)
135	1,4-Dioxane	88	6.168	6.168	(1.282)	1835	40.0000	48.49
132	n-Butanol	56	5.827	5.827	(1.211)	3416	40.0000	44.38(a)
136	n-Hexane	57	3.327	3.331	(0.691)	3412	2.00000	2.44(a)
139	Diethyl ether	59	2.135	2.139	(0.444)	4189	2.00000	2.25(a)
148	Tert-butyl alcohol	59	2.967	2.975	(0.617)	12205	40.0000	44.84
149	Isopropyl alcohol	45	2.558	2.570	(0.532)	9638	40.0000	49.60(T)
152	Amyl alcohol	42	7.402	7.398	(0.905)	3250	40.0000	59.14
156	Diisopropyl ether	45	3.616	3.619	(0.751)	16950	2.00000	2.32(Ta)
162	Butyl acrylate	55	8.736	8.733	(1.068)	8351	2.00000	2.98(a)
187	n-Amyl acetate	43	8.931	8.931	(1.092)	8608	2.00000	2.13(aM)
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	19618	2.00000	1.93(a)
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	17012	2.00000	3.17(a)
167	Ethanol	45	2.075	2.086	(0.431)	1764	40.0000	44.78
172	tert-Butyl formate	59	5.239	5.250	(1.089)	10522	4.00000	4.66(a)
173	3,3-Dimethyl-1-butanol	57	7.780	7.784	(0.951)	12619	40.0000	48.81(M)
174	tert-Amyl methyl ether	73	5.284	5.284	(1.098)	15149	2.00000	2.26(a)
175	tert-Butyl ethyl ether	59	4.043	4.047	(0.840)	15172	2.00000	2.32(a)
176	tert-Amyl alcohol	59	5.239	5.250	(1.089)	10522	40.0000	46.08
151	4-Methyl-2-pentanol	45	7.214	7.222	(1.301)	29478	40.0000	56.62
140	1,3-Butadiene	54	1.393	1.396	(0.290)	2130	2.00000	2.01(a)
182	Epichlorohydrin	57	6.630	6.630	(1.195)	1272	8.00000	10.41(M)
M 94	1,2-Dichloroethylene (total)	96				11070	4.00000	(a)
130	Ethyl Acetate	43	4.339	4.339	(0.902)	6040	2.00000	2.29(a)
131	Methyl Acrylate	55	4.369	4.365	(0.908)	7361	2.00000	2.66(a)
189	n-Butyl acetate	43	7.705	7.702	(0.942)	8434	2.00000	2.16(a)
134	Cyclohexanone	55	9.152	9.152	(0.900)	6019	40.0000	64.26(a)
185	Isoprene	39	2.150	2.146	(0.447)	950	2.00000	2.77(a)
188	Isopropyl acetate	43	5.280	5.284	(0.952)	15467	2.00000	2.22(a)
150	Allyl alcohol	57	3.327	3.331	(0.691)	3412	40.0000	48.81
194	Acetaldehyde	44	1.453	1.453	(0.302)	4005	8.00000	8.06(M)
195	Methyl Amyl Ketone	43	8.871	8.868	(1.084)	10259	2.00000	2.26(a)
200	Dimethyl Disulfide	94	6.742	6.746	(0.824)	1744	2.00000	5.88
202	Isobutylene	41	1.741	1.734	(0.362)	1892	2.00000	1.51(aM)
133	Ethyl Acrylate	55	5.944	5.944	(1.235)	9698	2.00000	2.43(a)

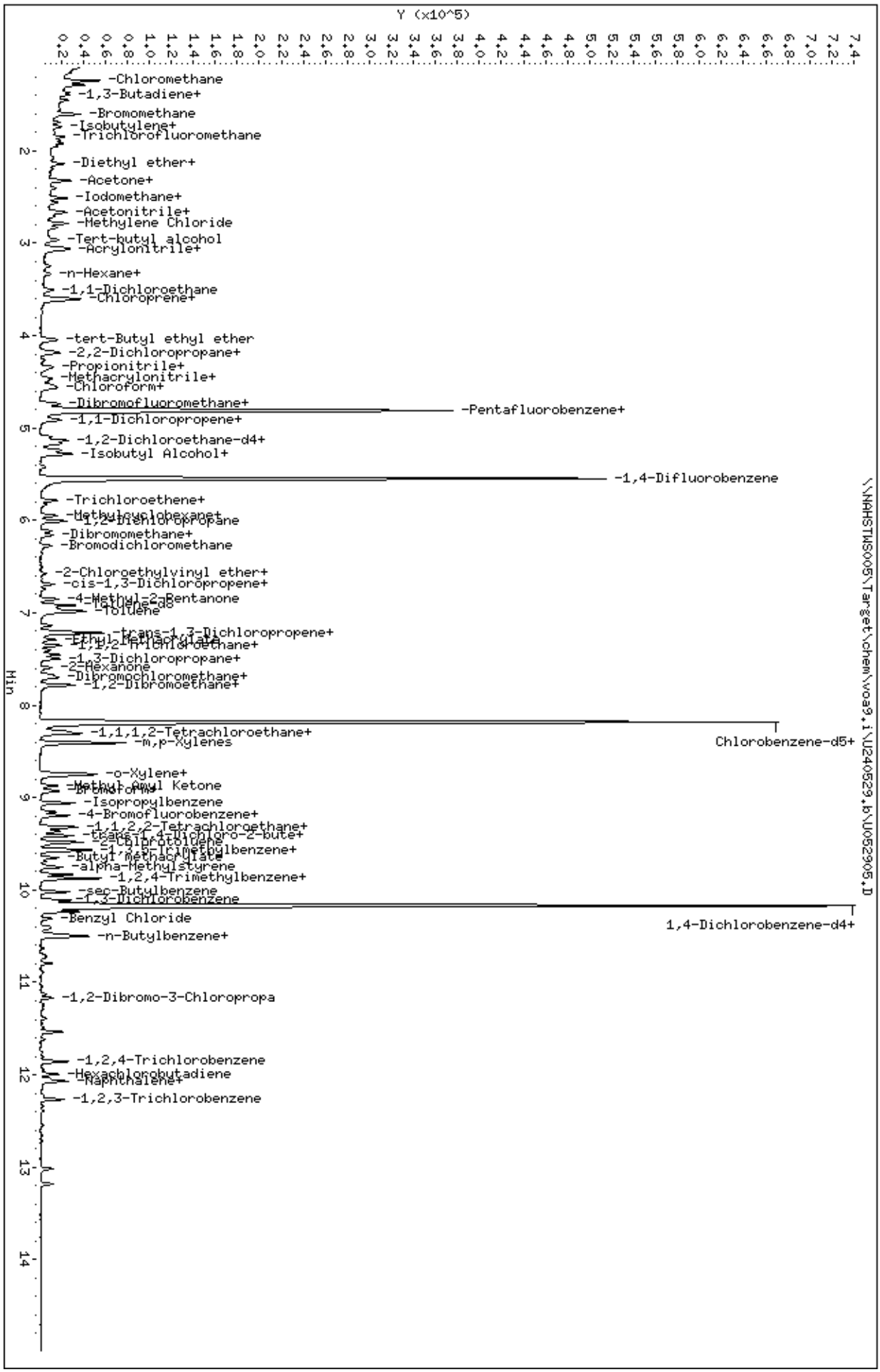
163 Butyl methacrylate	41	9.647	9.647 (0.949)	4545	2.00000	1.99(a)
159 Propylene oxide	43	2.191	2.191 (0.455)	1149	4.00000	6.04

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052905.D Page 4
Report Date: 07-Jun-2024 10:54

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
203 2-Ethylhexyl Acrylate	55	12.043	12.039	(1.184)	3471	2.00000	2.80(a)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.


Y (x10^5)
Min
-Chloromethane
-1,3-Butadiene+
-Bromomethane
-Isobutylene+
-Trichlorofluoromethane
-Diethyl ether+
-Acetone+
-Iodomethane+
-Acetonitrile+
-Methylene Chloride
-Tert-butyl alcohol
-Acrylonitrile+
-n-Hexane+
-1,1-Dichloroethane
-Chloroprene+
-tert-Butyl ethyl ether
-2,2-Dichloropropane+
-Propionitrile+
-Methacrylonitrile+
-Chloroform+
-Dibromofluoromethane+
-Pentafluorobenzene+
-1,1-Dichloropropene+
-1,2-Dichloroethane-d4+
-Isobutyl Alcohol+
-1,4-Difluorobenzene
-Trichloroethene+
-Methylcyclohexane+
-1,2-Dichloropropane
-Dibromomethane+
-Bromodichloromethane
-2-Chloroethylvinyl ether+
-cis-1,3-Dichloropropene+
-4-Methyl-2-Pentanone
-Toluene-d8
-Toluene
-trans-1,3-Dichloropropene+
-Ethyl Methacrylate
-1,1,2-Trichloroethane+
-1,3-Dichloropropane+
-2-Hexanone
-Dibromochloromethane+
-1,2-Dibromoethane+
-1,1,1,2-Tetrachloroethane+
-m,p-Xylenes
Chlorobenzene-d5+
-o-Xylene+
-Methyl Amyl Ketone
-Bromoform+
-Isopropylbenzene
-4-Bromofluorobenzene+
-1,1,2,2-Tetrachloroethane+
-trans-1,4-Dichloro-2-bute+
-2-Chlorotoluene
-1,3,5-Trimethylbenzene+
-Butyl Methacrylate
-alpha-Methylstyrene
-1,2,4-Trimethylbenzene+
-sec-Butylbenzene
-1,3-Dichlorobenzene
-Benzyl Chloride
1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-1,2-Dibromo-3-Chloropropa
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene+
-1,2,3-Trichlorobenzene
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Client ID: VSTD002
Sample Info: VSTD002;VSTD0021;4
Purge Volume: 5.0
Column phase: DB624
Instrument: VOA9,i
Operator: FT
Column diameter: 0.18
Page 1

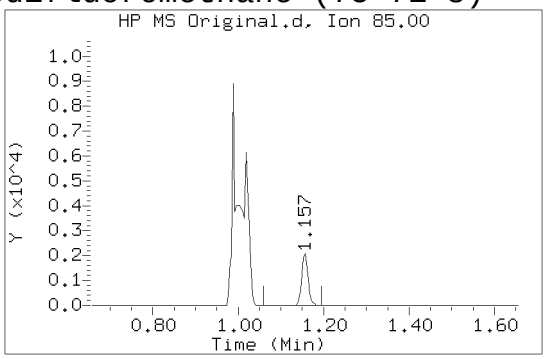
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LabSampID : VSTD002

Dichlorodifluoromethane (75-71-8)

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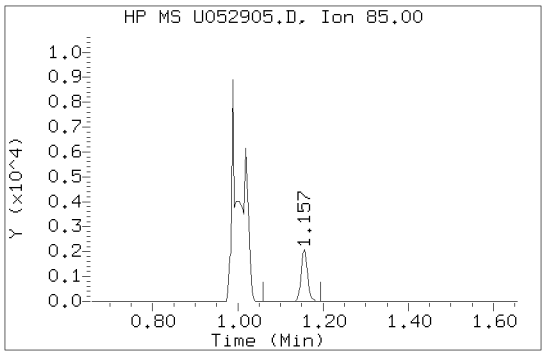
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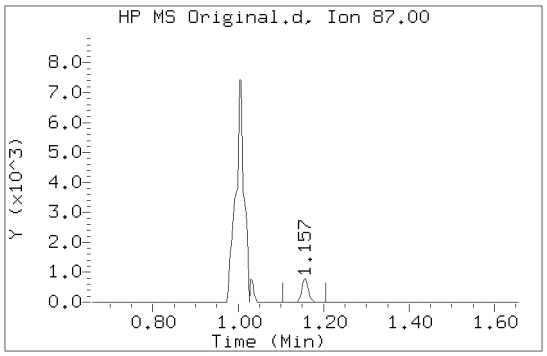
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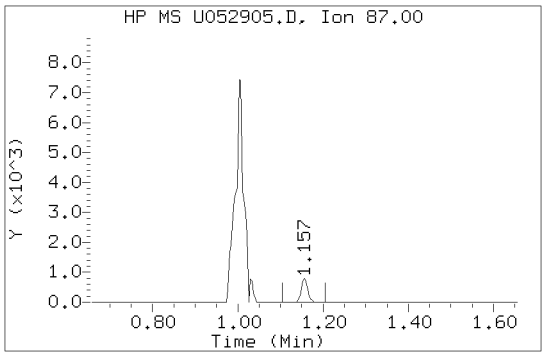
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AFTER

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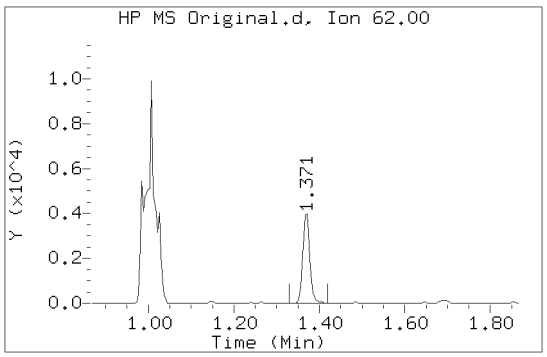


Vinyl Chloride (75-01-4)

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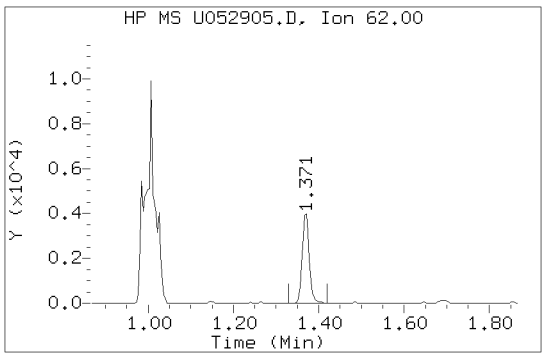
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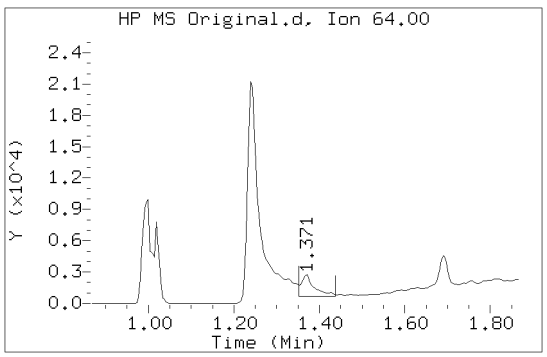
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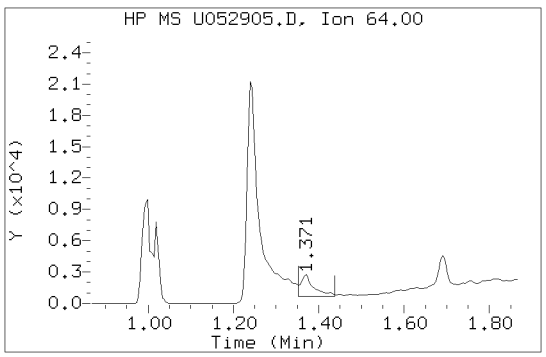
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AFTER

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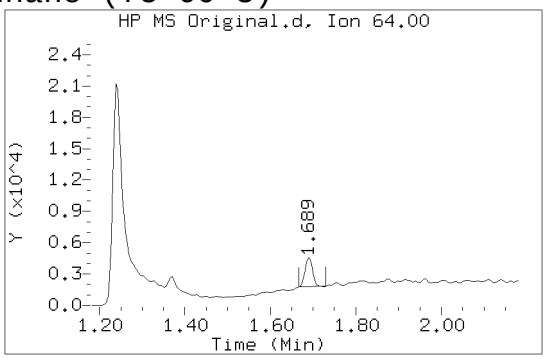


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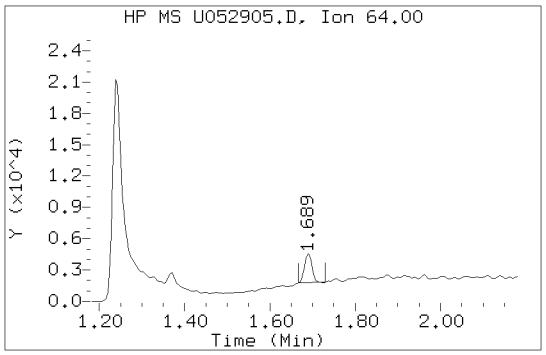
Chloroethane (75-00-3)

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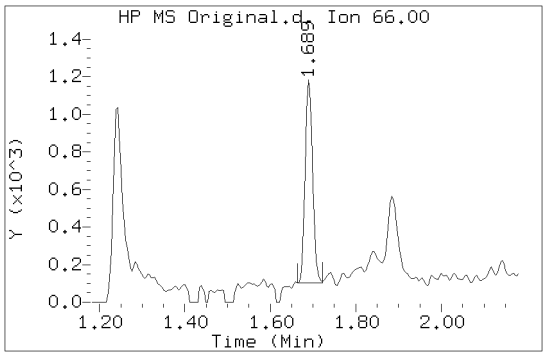
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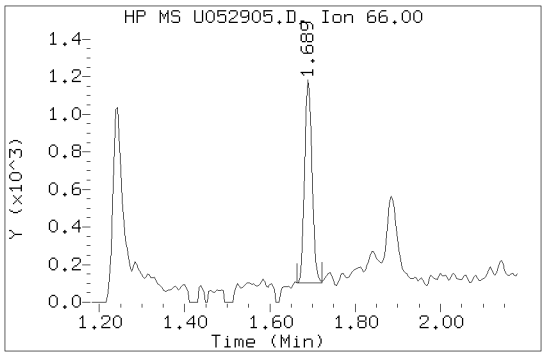
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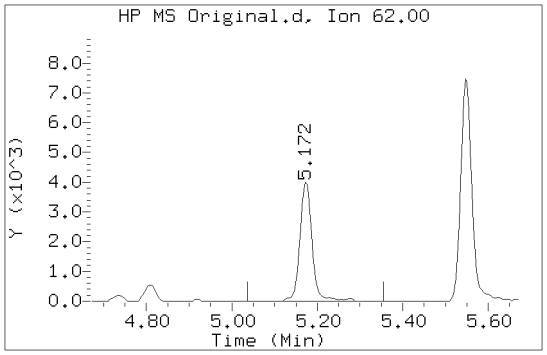
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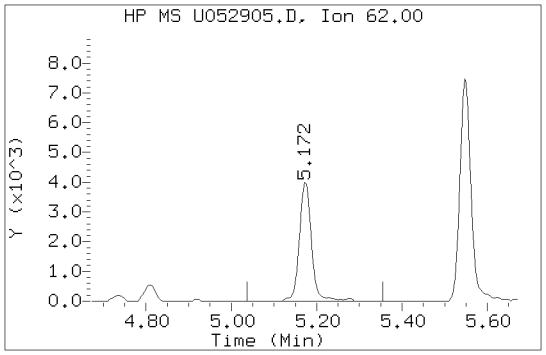
1,2-Dichloroethane (107-06-2)

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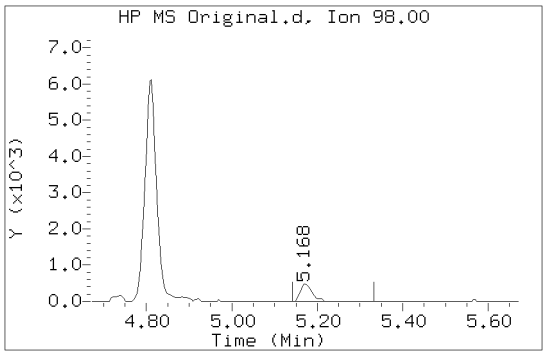
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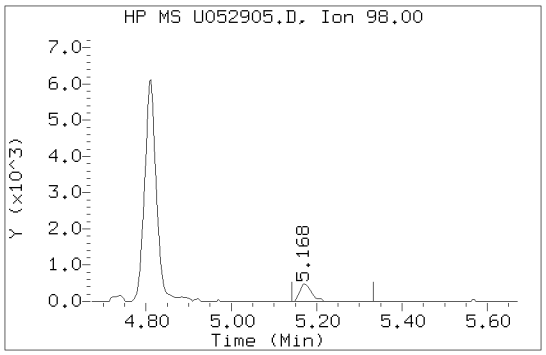
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BEFORE
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AFTER
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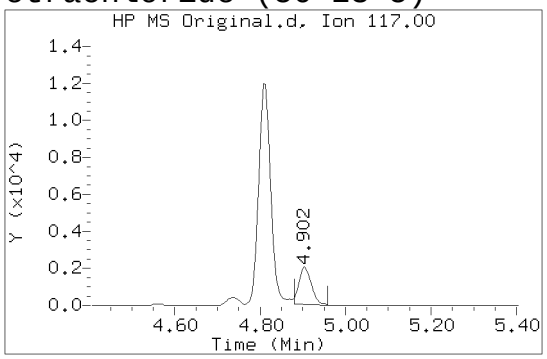


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LabSampID : VSTD002

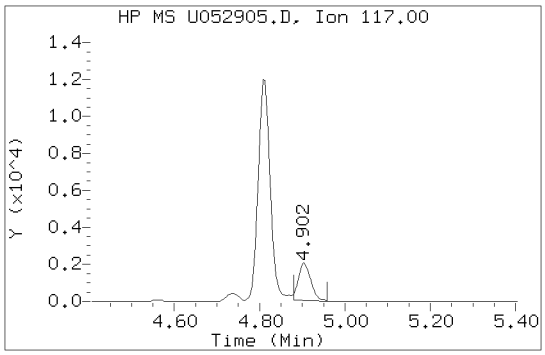
Carbon Tetrachloride (56-23-5)

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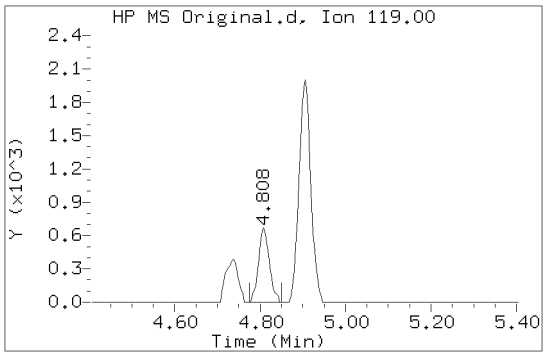
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06-Jun-2024
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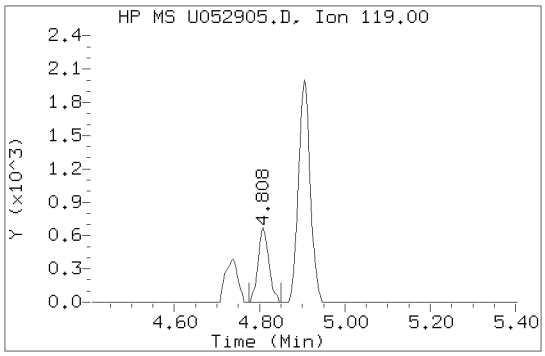
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BEFORE
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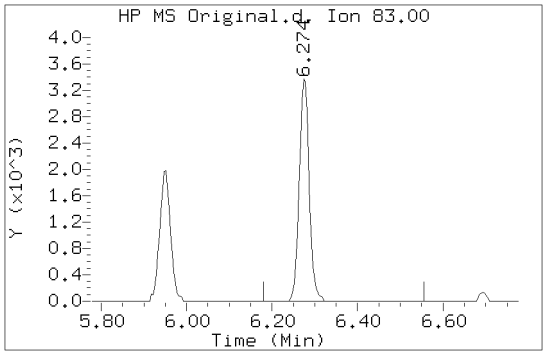
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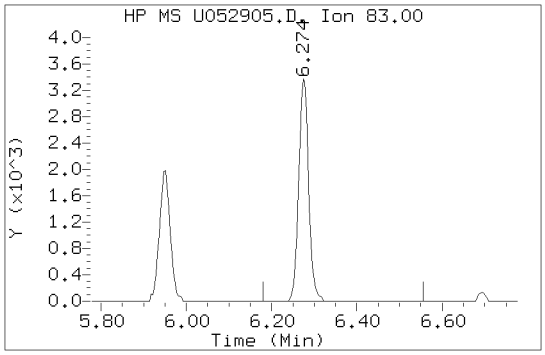
Bromodichloromethane (75-27-4)

Reason Code:

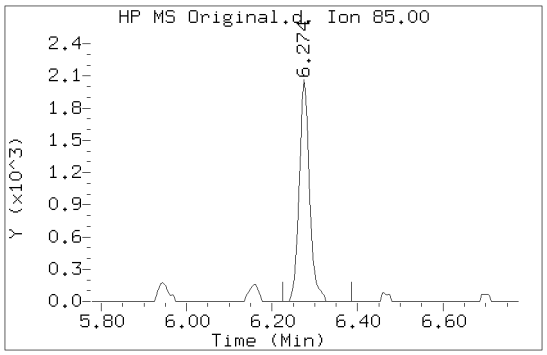
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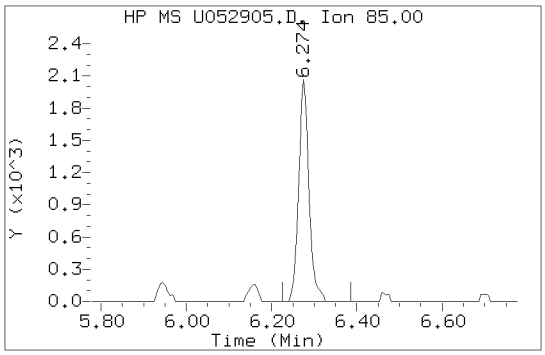
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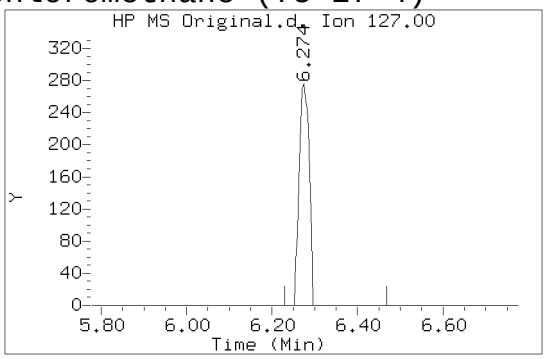


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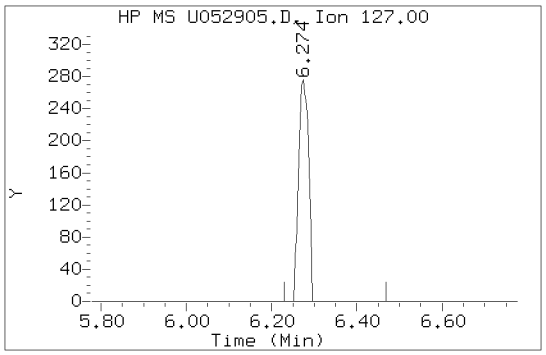
Bromodichloromethane (75-27-4)

Reason Code:

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06-Jun-2024
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s
zaid



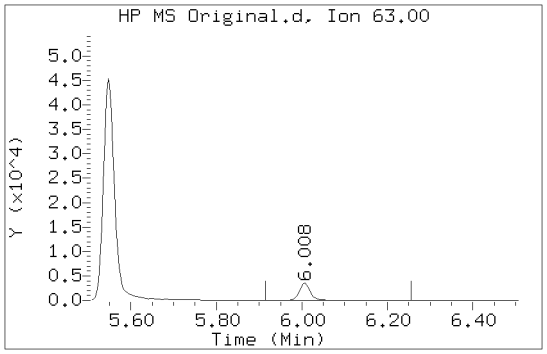
AFTER
MASS
127
AREA
460
HEIGHT
276
07-Jun-2024
10:36



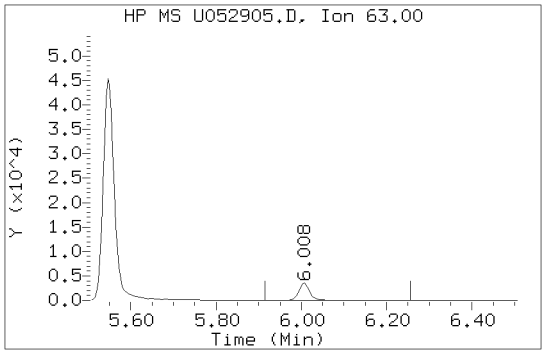
1,2-Dichloropropane (78-87-5)

Reason Code:

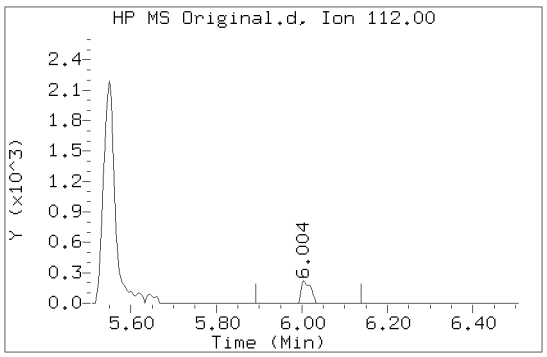
BEFORE
MASS
63
AREA
6290
HEIGHT
3505
06-Jun-2024
17:10
s
zaid



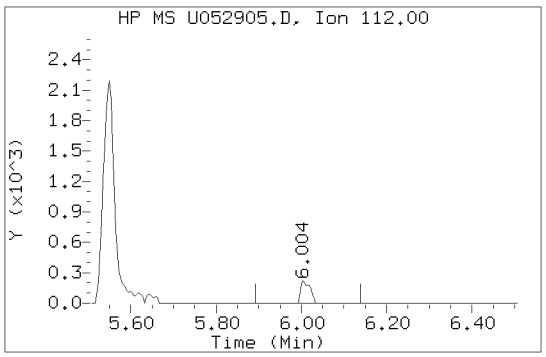
AFTER
MASS
63
AREA
6290
HEIGHT
3505
07-Jun-2024
10:36



BEFORE
MASS
112
AREA
345
HEIGHT
224
06-Jun-2024
17:10
s
zaid



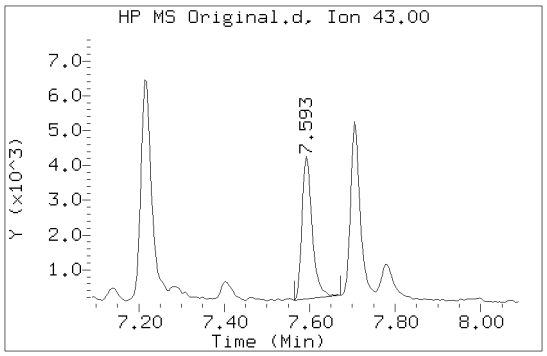
AFTER
MASS
112
AREA
345
HEIGHT
224
07-Jun-2024
10:36



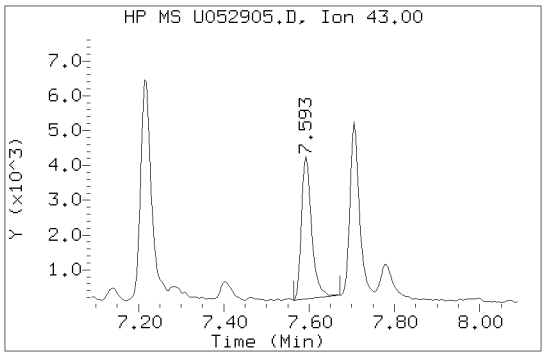
2-Hexanone (591-78-6)

Reason Code:

BEFORE
MASS
43
AREA
6895
HEIGHT
4089
06-Jun-2024
17:10
s
zaid



AFTER
MASS
43
AREA
6895
HEIGHT
4089
07-Jun-2024
10:36

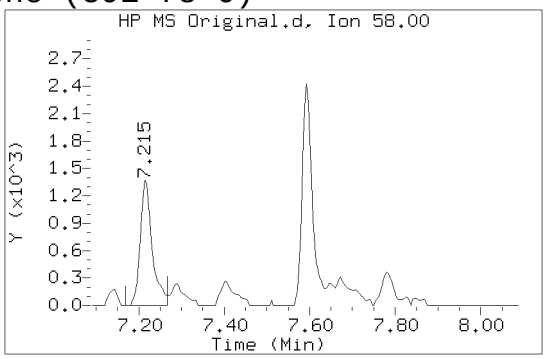


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052905.D
Inj Date : 29-MAY-2024 11:43
InstruID : VOA9.i
LabSampID : VSTD002

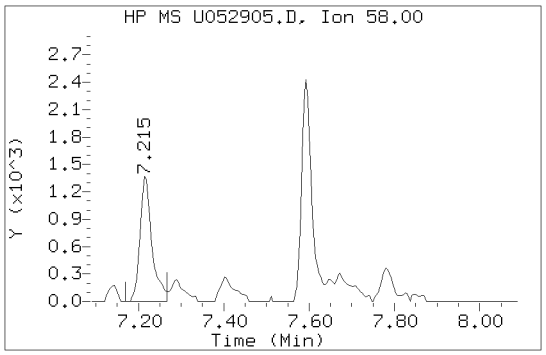
2-Hexanone (591-78-6)

Reason Code:

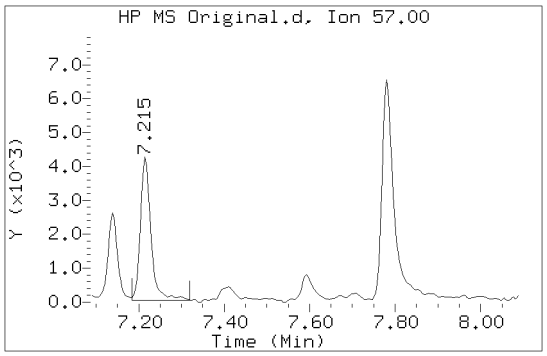
BEFORE
MASS
58
AREA
2669
HEIGHT
1369
06-Jun-2024
17:10
s
zaid



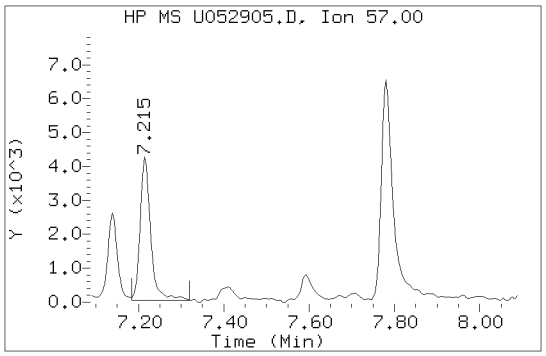
AFTER
MASS
58
AREA
2669
HEIGHT
1369
07-Jun-2024
10:36



BEFORE
MASS
57
AREA
7224
HEIGHT
4221
06-Jun-2024
17:10
s
zaid



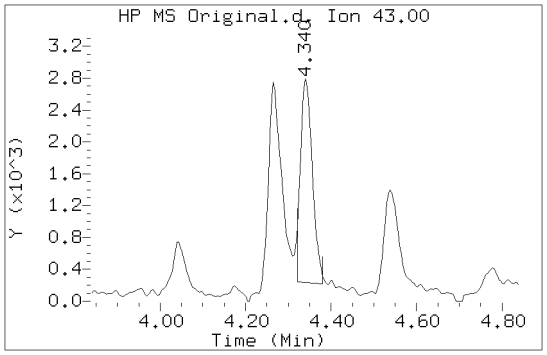
AFTER
MASS
57
AREA
7224
HEIGHT
4221
07-Jun-2024
10:36



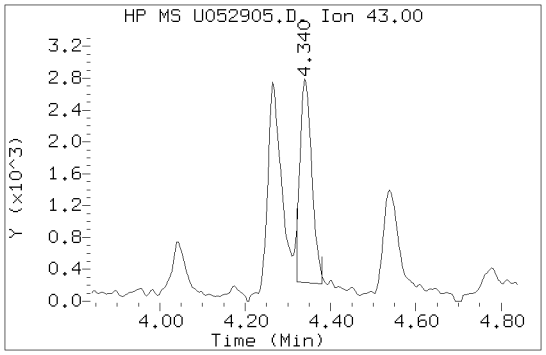
Vinyl Acetate (108-05-4)

Reason Code:

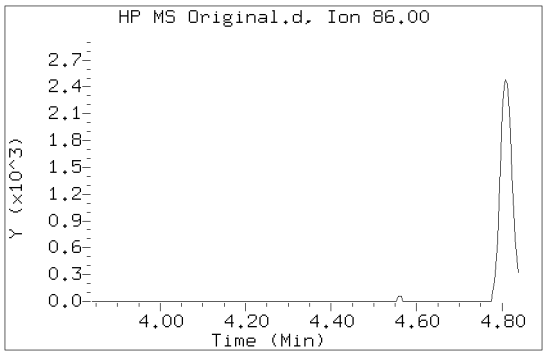
BEFORE
MASS
43
AREA
5050
HEIGHT
2552
06-Jun-2024
17:10
s
zaid



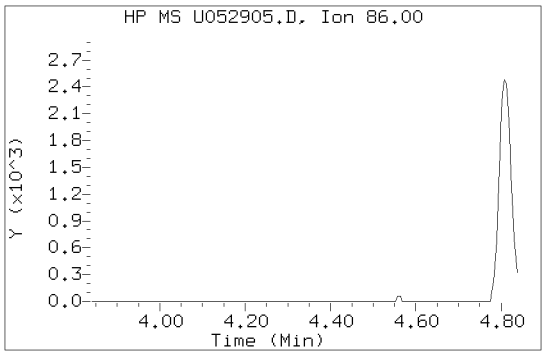
AFTER
MASS
43
AREA
5050
HEIGHT
2552
07-Jun-2024
10:36



BEFORE
MASS
86
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER
MASS
86
AREA
0
HEIGHT
0
07-Jun-2024
10:36



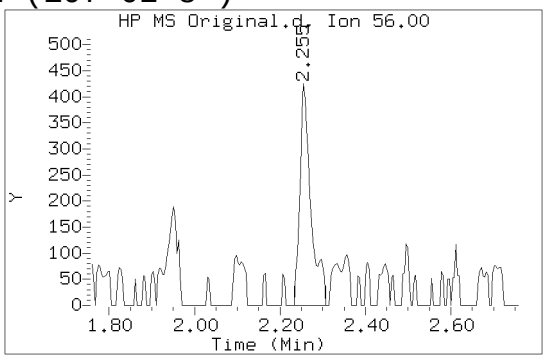
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052905.D
Inj Date : 29-MAY-2024 11:43
InstruID : VOA9.i
LabSampID : VSTD002

Acrolein (107-02-8)

Reason Code:

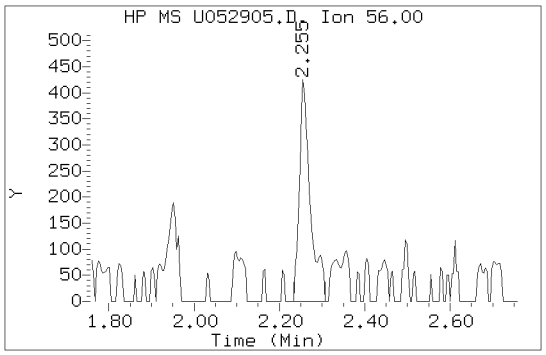
BEFORE

MASS
56
AREA
772
HEIGHT
425
06-Jun-2024
17:10
s
zaid



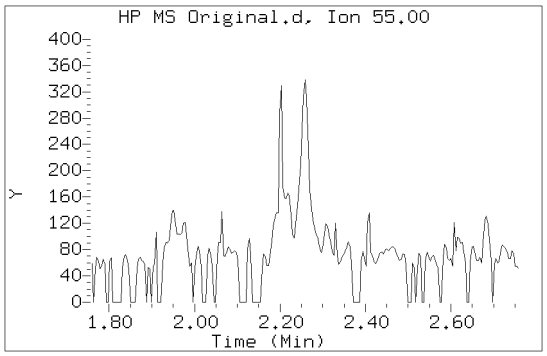
AFTER

MASS
56
AREA
772
HEIGHT
425
07-Jun-2024
10:36



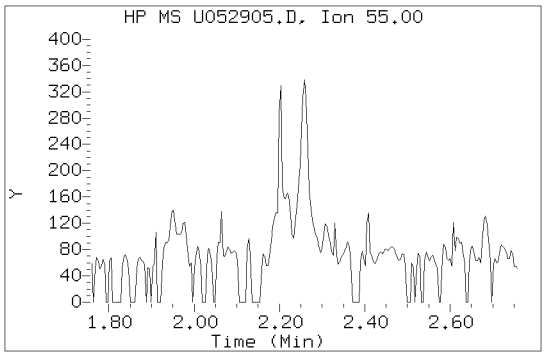
BEFORE

MASS
55
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
55
AREA
0
HEIGHT
0
07-Jun-2024
10:36

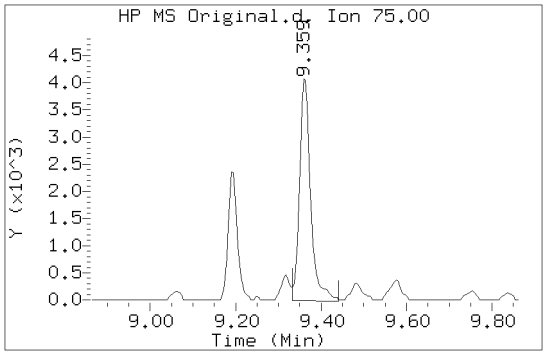


1,2,3-Trichloropropane (96-18-4)

Reason Code:

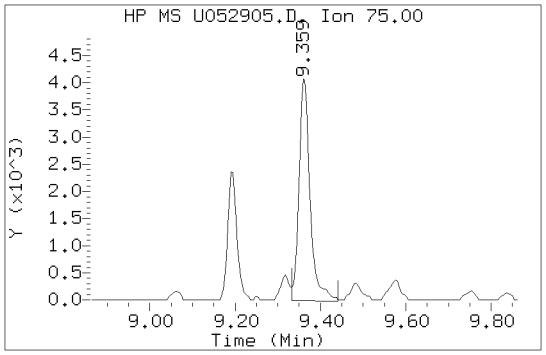
BEFORE

MASS
75
AREA
7496
HEIGHT
4077
06-Jun-2024
17:10
s
zaid



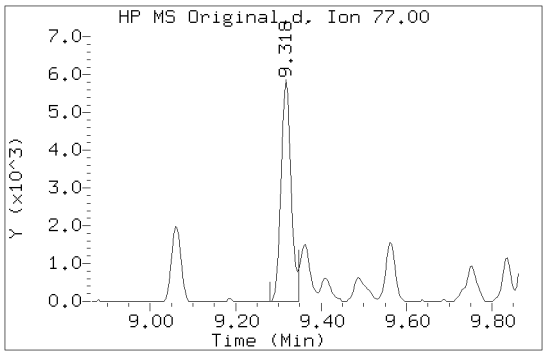
AFTER

MASS
75
AREA
7496
HEIGHT
4077
07-Jun-2024
10:36



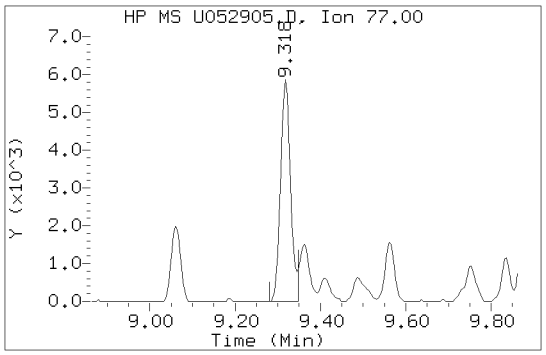
BEFORE

MASS
77
AREA
9657
HEIGHT
5868
06-Jun-2024
17:10
s
zaid



AFTER

MASS
77
AREA
9657
HEIGHT
5868
07-Jun-2024
10:36

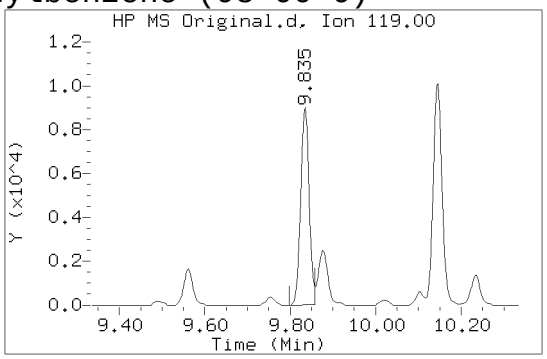


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052905.D
Inj Date : 29-MAY-2024 11:43
InstruID : VOA9.i
LabSampID : VSTD002

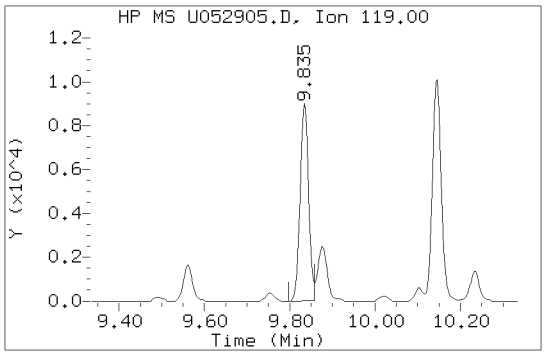
tert-Butylbenzene (98-06-6)

Reason Code:

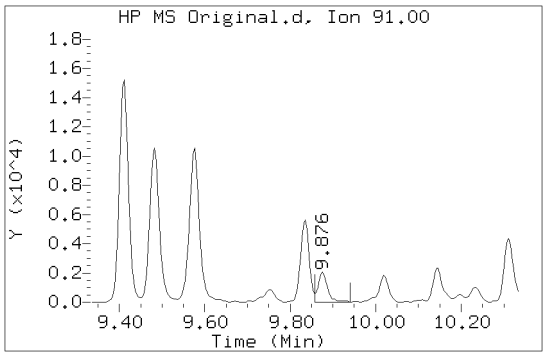
BEFORE
MASS
119
AREA
12758
HEIGHT
9033
06-Jun-2024
17:10
s
zaid



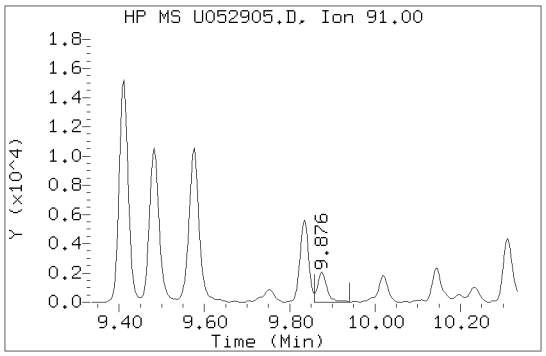
AFTER
MASS
119
AREA
12758
HEIGHT
9033
07-Jun-2024
10:36



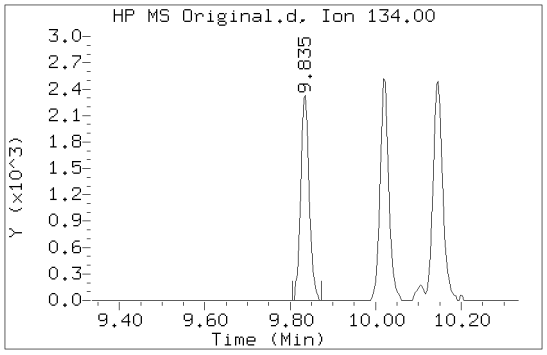
BEFORE
MASS
91
AREA
3225
HEIGHT
2074
06-Jun-2024
17:10
s
zaid



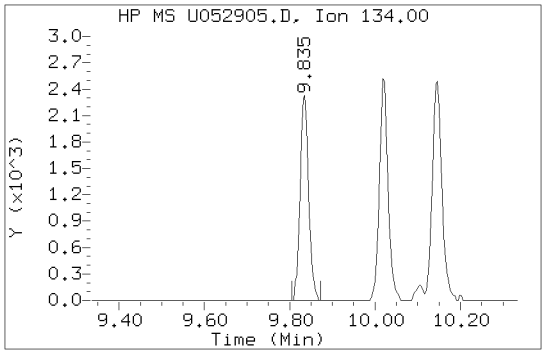
AFTER
MASS
91
AREA
3225
HEIGHT
2074
07-Jun-2024
10:36



BEFORE
MASS
134
AREA
3289
HEIGHT
2329
06-Jun-2024
17:10
s
zaid



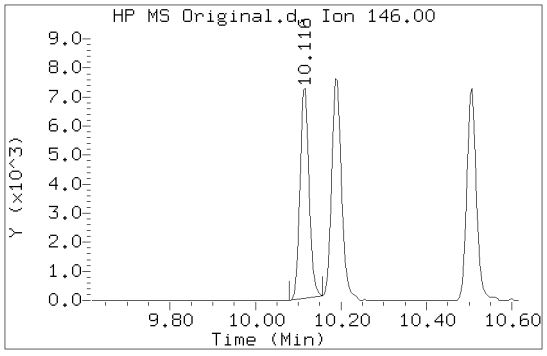
AFTER
MASS
134
AREA
3289
HEIGHT
2329
07-Jun-2024
10:36



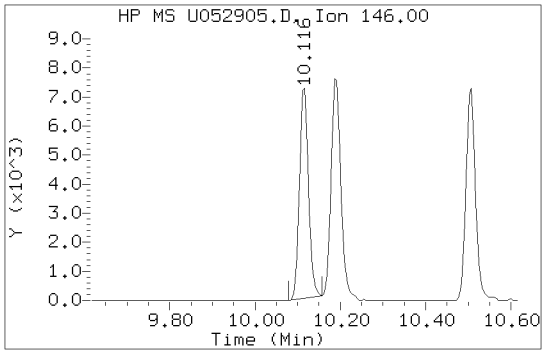
1,3-Dichlorobenzene (541-73-1)

Reason Code:

BEFORE
MASS
146
AREA
10883
HEIGHT
7221
06-Jun-2024
17:10
s
zaid



AFTER
MASS
146
AREA
10883
HEIGHT
7221
07-Jun-2024
10:36



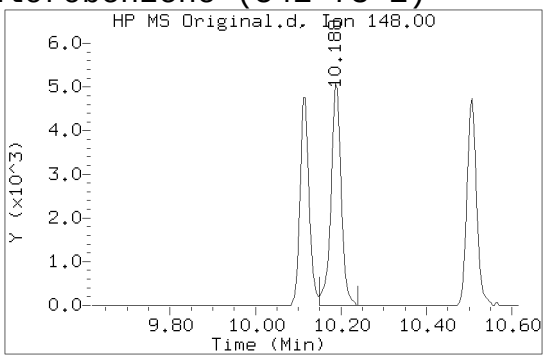
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052905.D
Inj Date : 29-MAY-2024 11:43
InstruID : VOA9.i
LabSampID : VSTD002

1,3-Dichlorobenzene (541-73-1)

Reason Code:

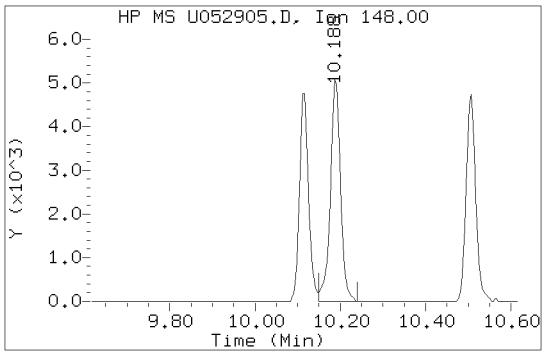
BEFORE

MASS
148
AREA
8420
HEIGHT
5076
06-Jun-2024
17:10
s
zaid



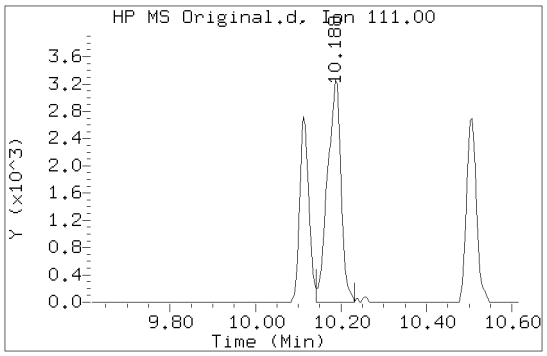
AFTER

MASS
148
AREA
8420
HEIGHT
5076
07-Jun-2024
10:36



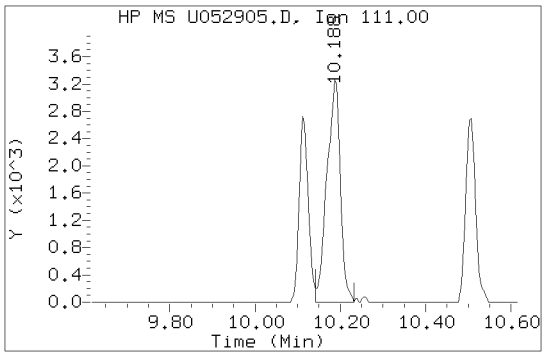
BEFORE

MASS
111
AREA
7121
HEIGHT
3260
06-Jun-2024
17:10
s
zaid



AFTER

MASS
111
AREA
7121
HEIGHT
3260
07-Jun-2024
10:36

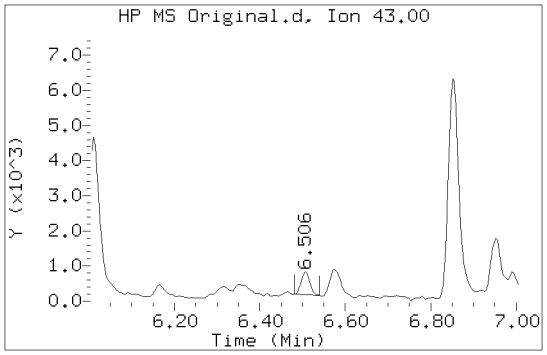


2-Nitropropane (79-46-9)

Reason Code:

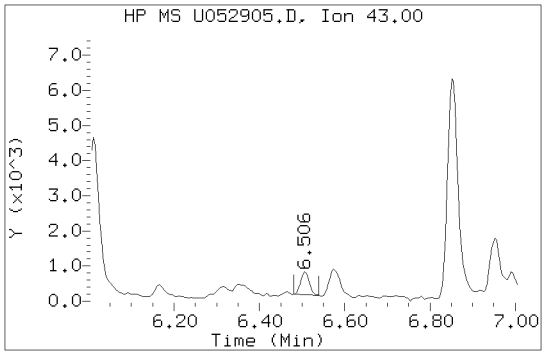
BEFORE

MASS
43
AREA
922
HEIGHT
660
06-Jun-2024
17:10
s
zaid



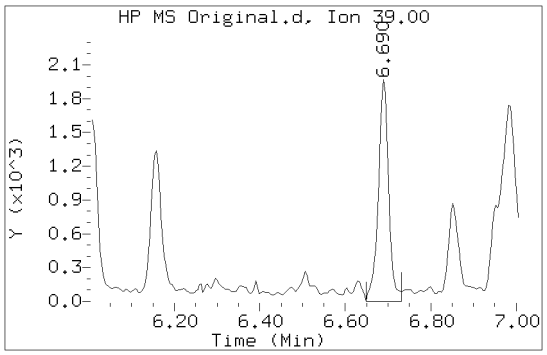
AFTER

MASS
43
AREA
922
HEIGHT
660
07-Jun-2024
10:36



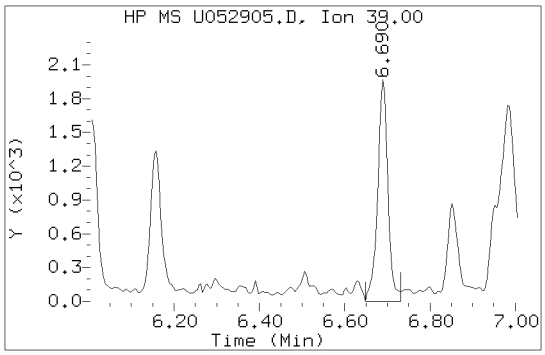
BEFORE

MASS
39
AREA
3294
HEIGHT
1968
06-Jun-2024
17:10
s
zaid



AFTER

MASS
39
AREA
3294
HEIGHT
1968
07-Jun-2024
10:36



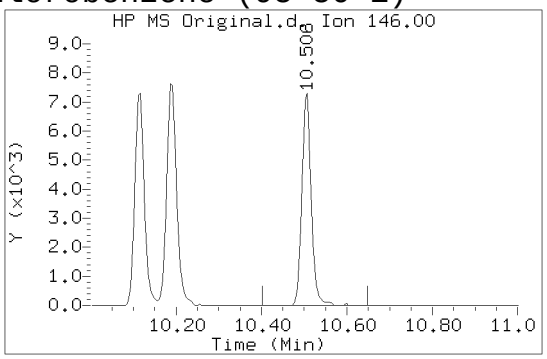
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052905.D
Inj Date : 29-MAY-2024 11:43
InstruID : VOA9.i
LabSampID : VSTD002

1,2-Dichlorobenzene (95-50-1)

Reason Code:

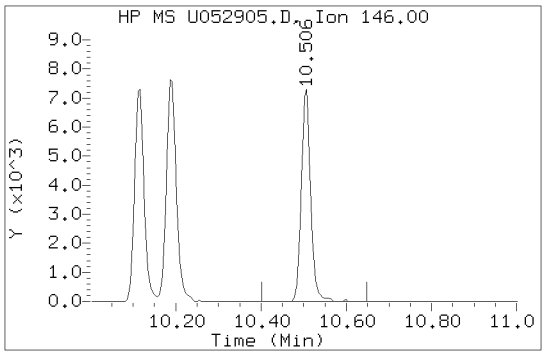
BEFORE

MASS
146
AREA
11285
HEIGHT
7311
06-Jun-2024
17:10
s
zaid



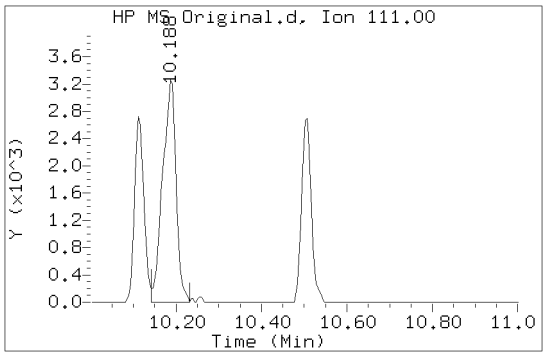
AFTER

MASS
146
AREA
11285
HEIGHT
7311
07-Jun-2024
10:36



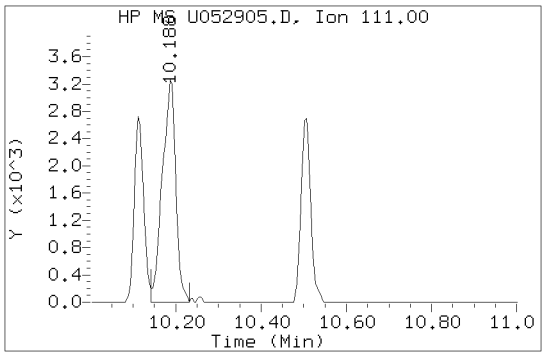
BEFORE

MASS
111
AREA
7121
HEIGHT
3260
06-Jun-2024
17:10
s
zaid



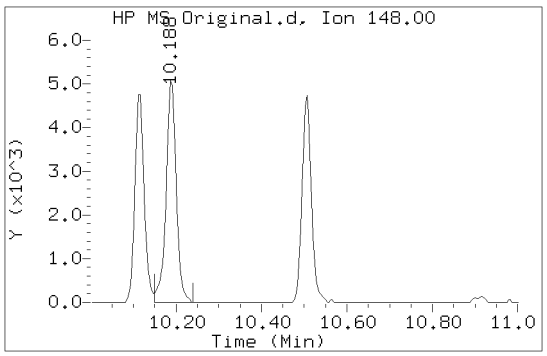
AFTER

MASS
111
AREA
7121
HEIGHT
3260
07-Jun-2024
10:36



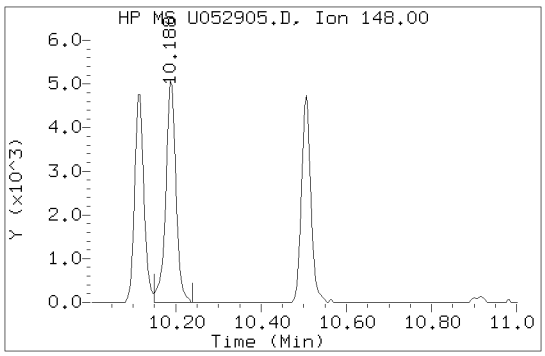
BEFORE

MASS
148
AREA
8420
HEIGHT
5076
06-Jun-2024
17:10
s
zaid



AFTER

MASS
148
AREA
8420
HEIGHT
5076
07-Jun-2024
10:36

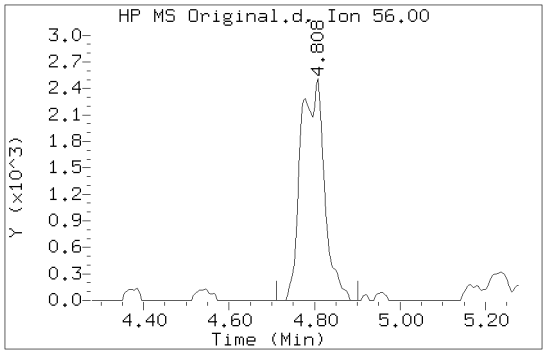


Cyclohexane (110-82-7)

Reason Code:

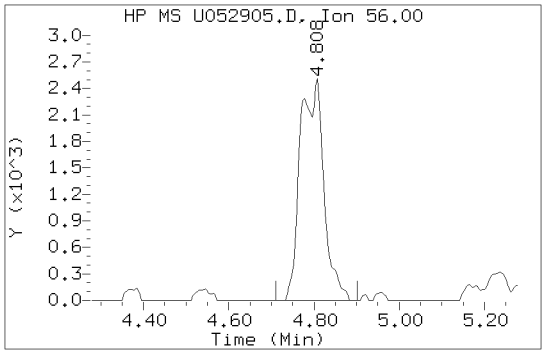
BEFORE

MASS
56
AREA
9727
HEIGHT
2510
06-Jun-2024
17:10
s
zaid



AFTER

MASS
56
AREA
9727
HEIGHT
2510
07-Jun-2024
10:36



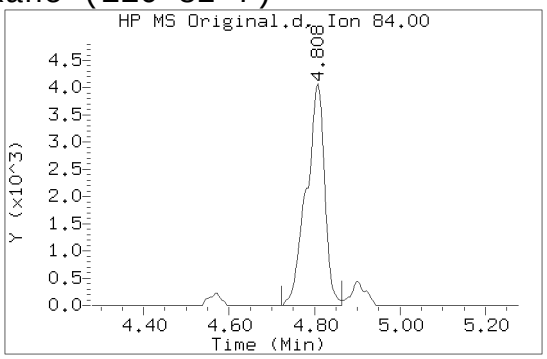
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Inj Date : 29-MAY-2024 11:43
InstruID : VOA9.i
LabSampID : VSTD002

Cyclohexane (110-82-7)

Reason Code:

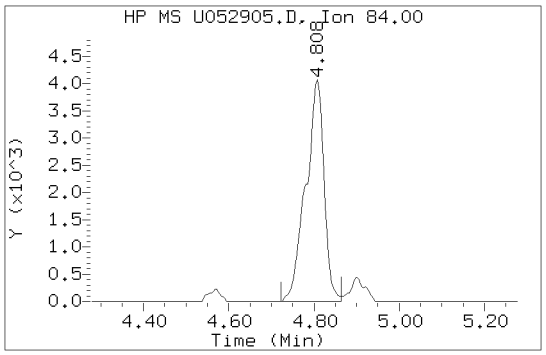
BEFORE

MASS
84
AREA
12171
HEIGHT
4074
06-Jun-2024
17:10
s
zaid



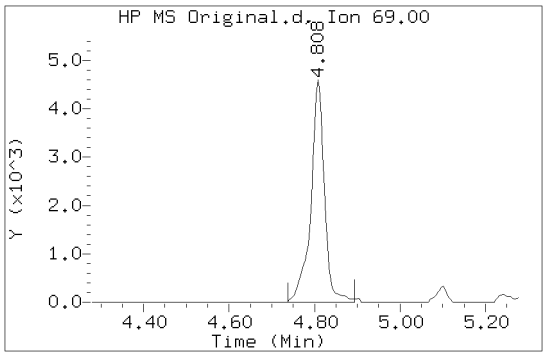
AFTER

MASS
84
AREA
12171
HEIGHT
4074
07-Jun-2024
10:36



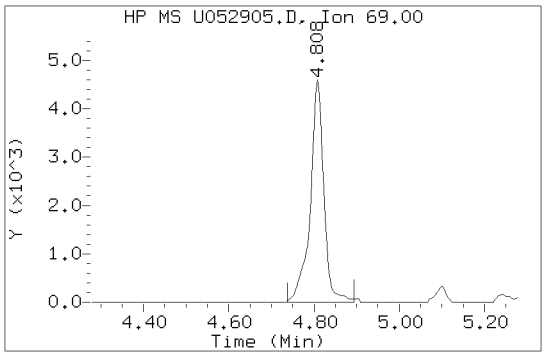
BEFORE

MASS
69
AREA
10199
HEIGHT
4596
06-Jun-2024
17:10
s
zaid



AFTER

MASS
69
AREA
10199
HEIGHT
4596
07-Jun-2024
10:36

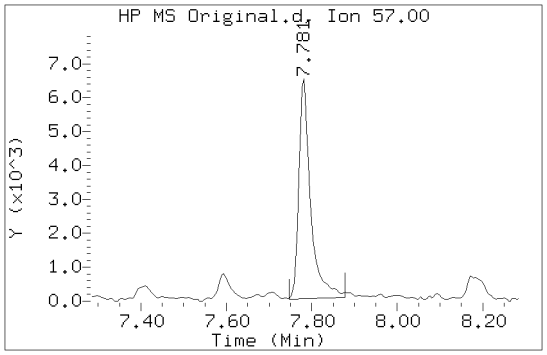


3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

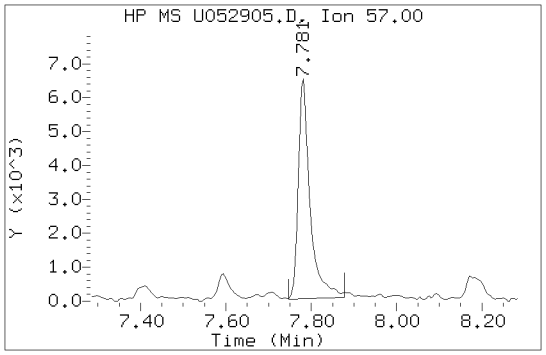
BEFORE

MASS
57
AREA
12619
HEIGHT
6478
06-Jun-2024
17:10
s
zaid



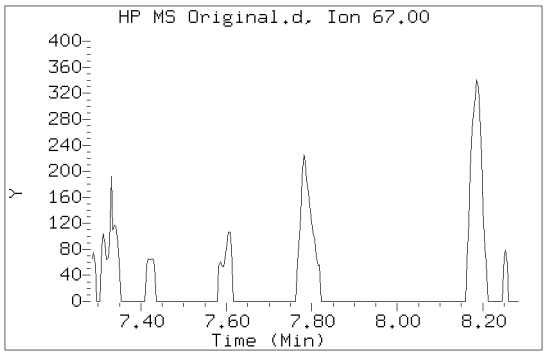
AFTER

MASS
57
AREA
12619
HEIGHT
6478
07-Jun-2024
10:36



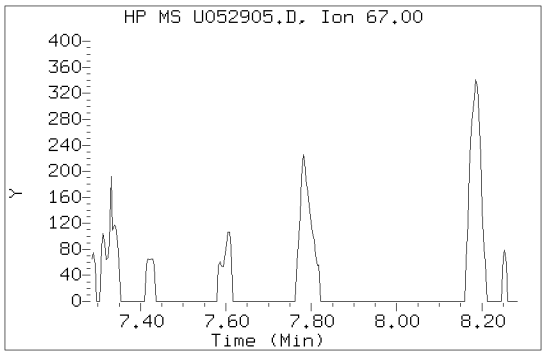
BEFORE

MASS
67
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
67
AREA
0
HEIGHT
0
07-Jun-2024
10:36

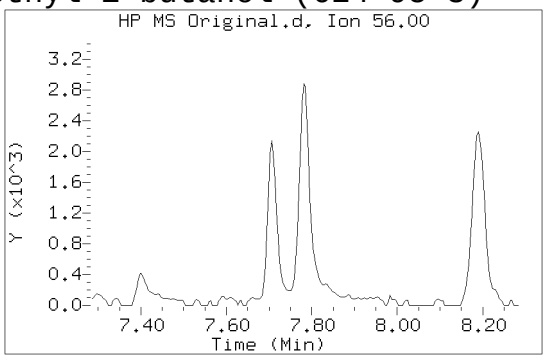


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Inj Date : 29-MAY-2024 11:43
InstruID : VOA9.i
LabSampID : VSTD002

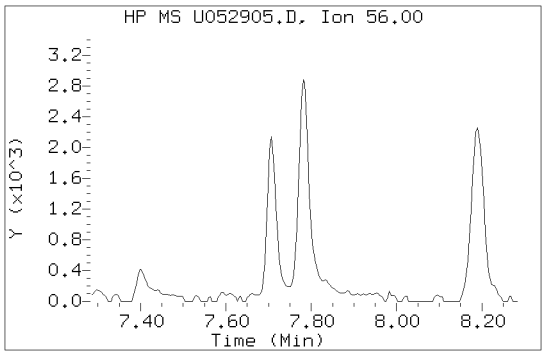
3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

BEFORE
MASS
56
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



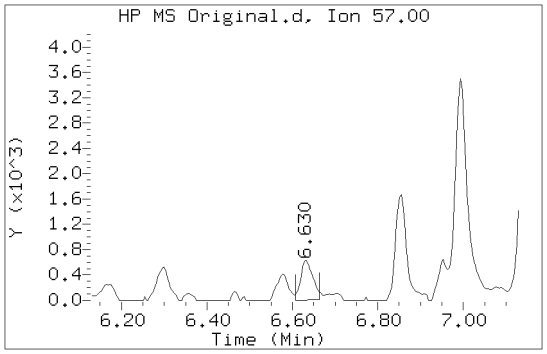
AFTER
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07-Jun-2024
10:36



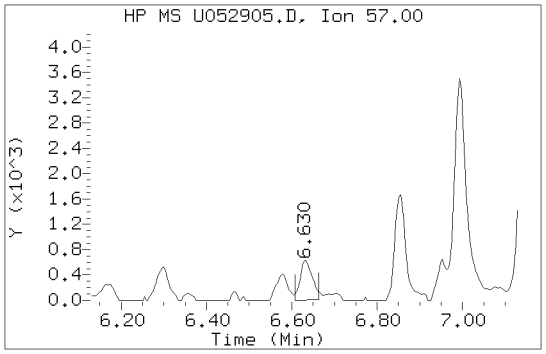
Epichlorohydrin (106-89-8)

Reason Code:

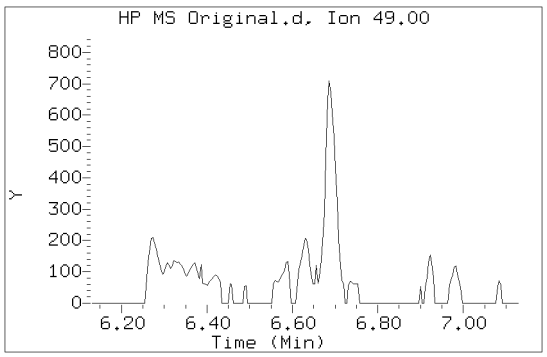
BEFORE
MASS
57
AREA
1272
HEIGHT
626
06-Jun-2024
17:10
s
zaid



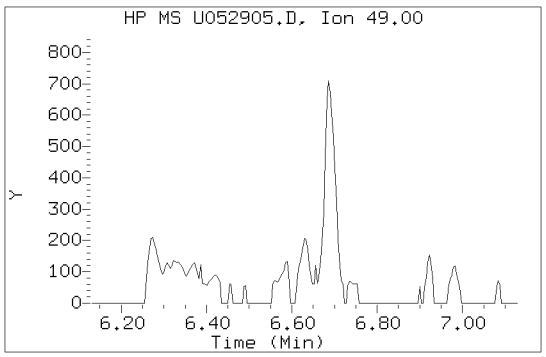
AFTER
MASS
57
AREA
1272
HEIGHT
626
07-Jun-2024
10:36



BEFORE
MASS
49
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



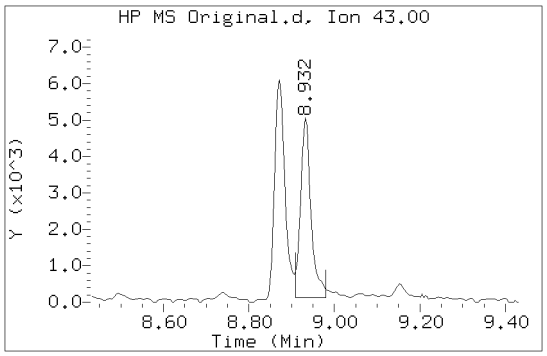
AFTER
MASS
49
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HEIGHT
0
07-Jun-2024
10:36



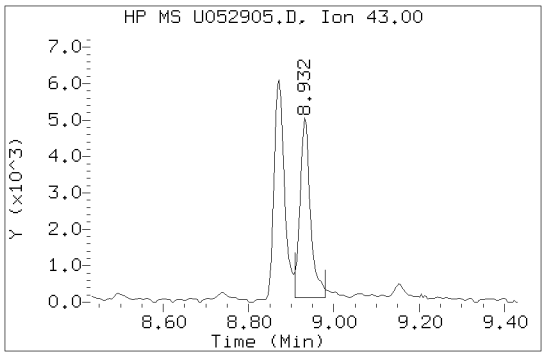
n-Amyl acetate (628-63-7)

Reason Code:

BEFORE
MASS
43
AREA
8608
HEIGHT
4942
06-Jun-2024
17:10
s
zaid



AFTER
MASS
43
AREA
8608
HEIGHT
4942
07-Jun-2024
10:36

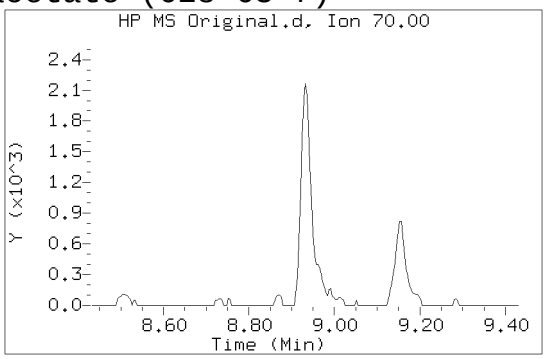


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Inj Date : 29-MAY-2024 11:43
InstruID : VOA9.i
LabSampID : VSTD002

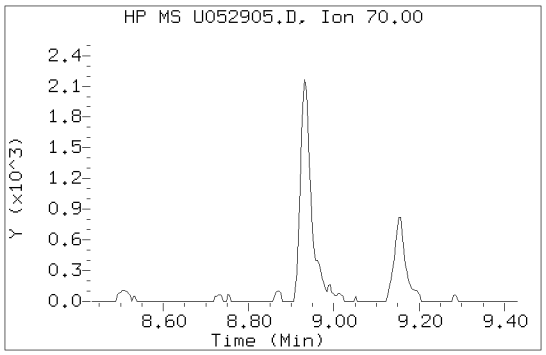
n-Amyl acetate (628-63-7)

Reason Code:

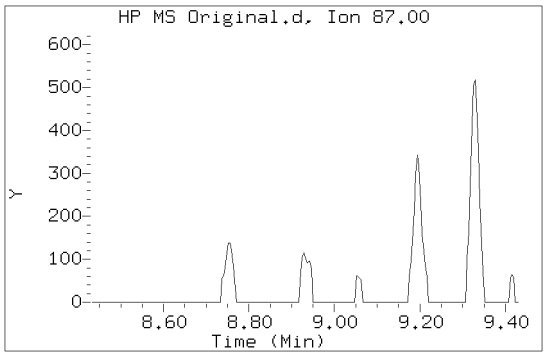
BEFORE
MASS
70
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HEIGHT
0
06-Jun-2024
17:10
s
zaid



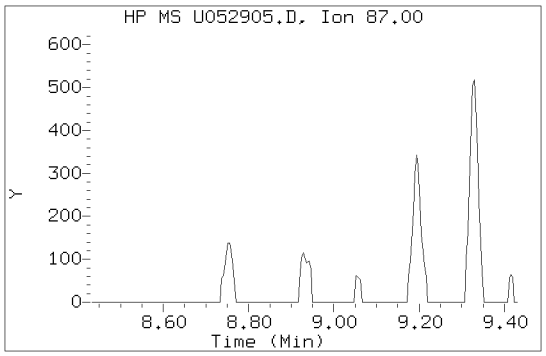
AFTER
MASS
70
AREA
0
HEIGHT
0
07-Jun-2024
10:36



BEFORE
MASS
87
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



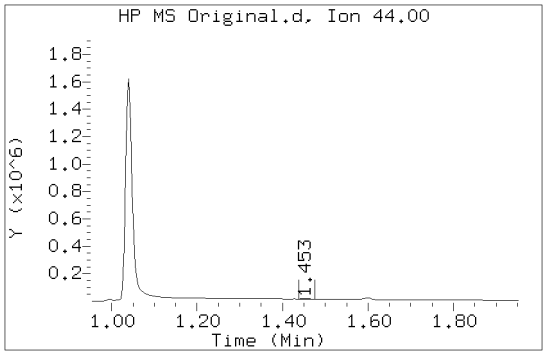
AFTER
MASS
87
AREA
0
HEIGHT
0
07-Jun-2024
10:36



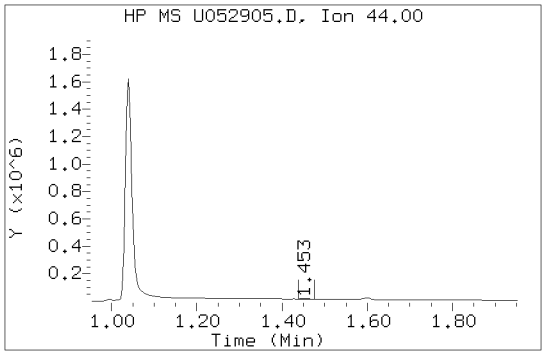
Acetaldehyde (75-07-0)

Reason Code:

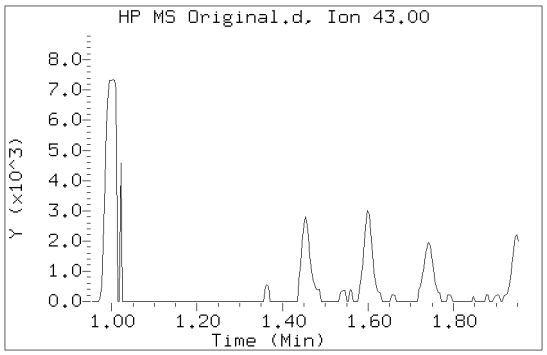
BEFORE
MASS
44
AREA
4005
HEIGHT
3930
06-Jun-2024
17:10
s
zaid



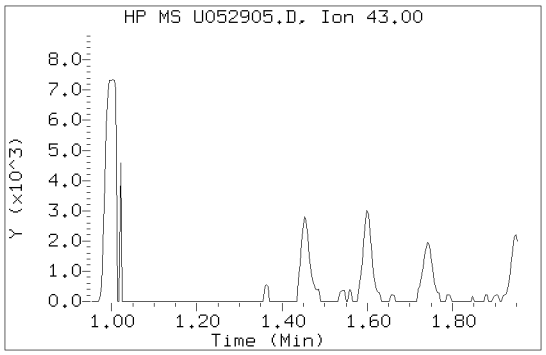
AFTER
MASS
44
AREA
4005
HEIGHT
3930
07-Jun-2024
10:36



BEFORE
MASS
43
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER
MASS
43
AREA
0
HEIGHT
0
07-Jun-2024
10:36



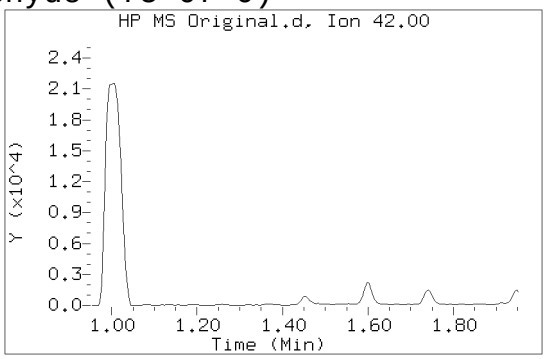
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052905.D
Inj Date : 29-MAY-2024 11:43
InstruID : VOA9.i
LabSampID : VSTD002

Acetaldehyde (75-07-0)

Reason Code:

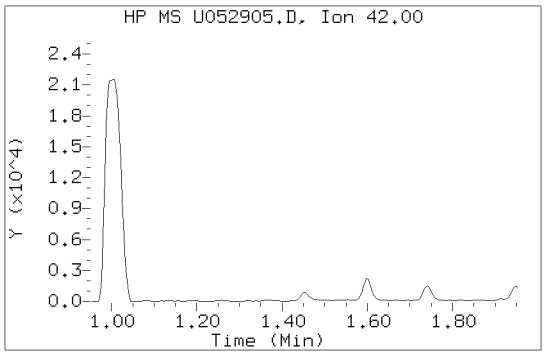
BEFORE

MASS
42
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
42
AREA
0
HEIGHT
0
07-Jun-2024
10:36

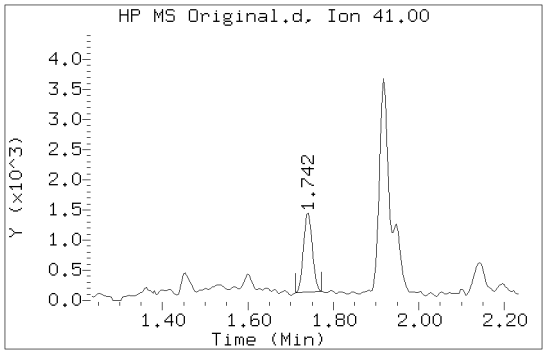


Isobutylene (115-11-7)

Reason Code:

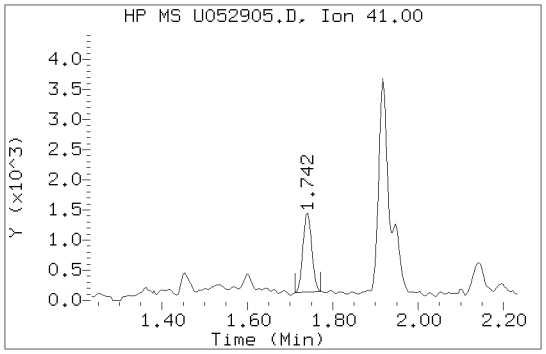
BEFORE

MASS
41
AREA
1892
HEIGHT
1311
06-Jun-2024
17:10
s
zaid



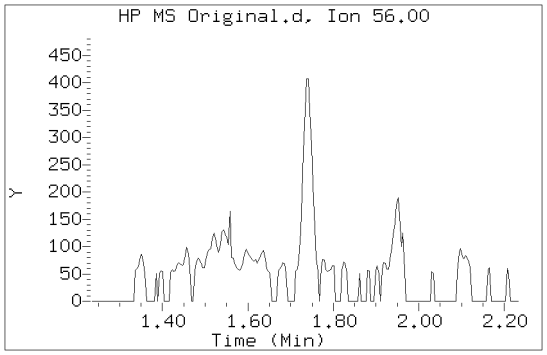
AFTER

MASS
41
AREA
1892
HEIGHT
1311
07-Jun-2024
10:36



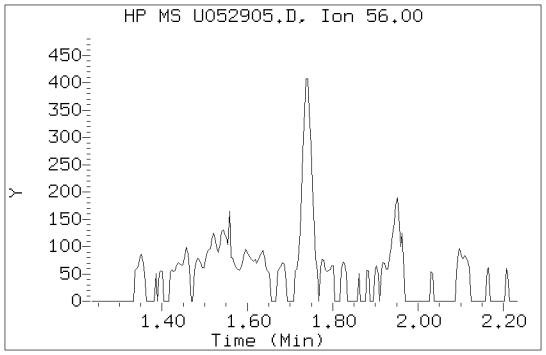
BEFORE

MASS
56
AREA
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HEIGHT
0
06-Jun-2024
17:10
s
zaid



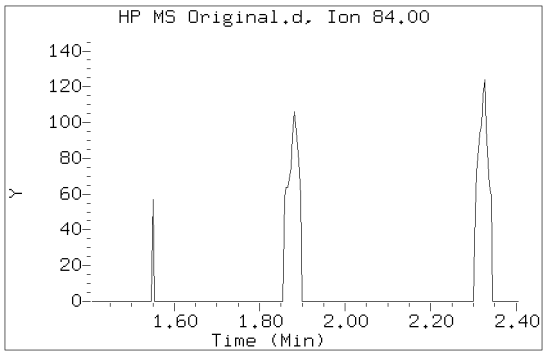
AFTER

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56
AREA
0
HEIGHT
0
07-Jun-2024
10:36



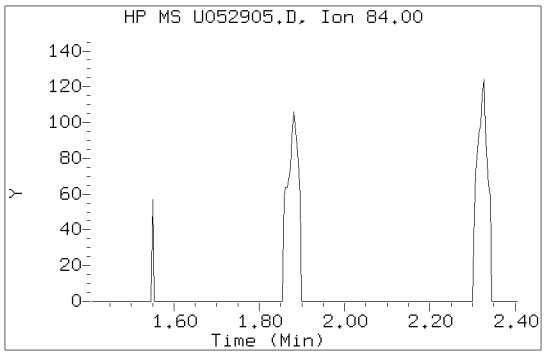
BEFORE

MASS
84
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
84
AREA
0
HEIGHT
0
07-Jun-2024
10:36



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052906.D Page 1
Report Date: 07-Jun-2024 10:54

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052906.D
Lab Smp Id: VSTD005 Client Smp ID: VSTD005
Inj Date : 29-MAY-2024 12:05
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD005;VSTD005;1;5
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240529.b\8260C.m
Meth Date : 07-Jun-2024 10:14 r.patel Quant Type: ISTD
Cal Date : 29-MAY-2024 12:05 Cal File: U052906.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.815	4.811	(1.000)	284725	50.0000	
2	Dichlorodifluoromethane	85	1.168	1.156	(0.243)	5755	5.00000	5.42(M)
3	Chloromethane	50	1.299	1.288	(0.270)	21844	5.00000	5.10
4	Propionitrile	54	4.343	4.339	(0.902)	17004	50.0000	49.86(a)
5	Vinyl Chloride	62	1.381	1.366	(0.287)	10603	5.00000	4.93(M)
6	Bromomethane	94	1.618	1.595	(0.336)	6167	5.00000	4.80
7	Chloroethane	64	1.704	1.681	(0.354)	8259	5.00000	5.34(M)
8	Trichlorofluoromethane	101	1.899	1.884	(0.394)	13728	5.00000	5.37
9	Acrolein	56	2.266	2.259	(0.471)	1464	10.0000	12.29(a)
10	Acetone	43	2.412	2.405	(0.501)	11049	10.0000	11.23
11	1,1-Dichloroethene	96	2.334	2.322	(0.485)	9505	5.00000	5.06
12	Isobutyl Alcohol	43	5.284	5.284	(1.097)	29987	100.000	88.05(a)
13	Acetonitrile	39	2.671	2.663	(0.555)	11564	50.0000	50.06(a)
14	Allyl Chloride	41	2.675	2.667	(0.556)	29273	5.00000	5.15(a)
15	Iodomethane	142	2.469	2.457	(0.513)	2162	10.0000	9.34(T)
16	Acrylonitrile	53	3.068	3.061	(0.637)	8324	10.0000	9.69
17	Methylene Chloride	84	2.795	2.783	(0.580)	13562	5.00000	5.06
18	Methyl tert-butyl ether	73	3.083	3.076	(0.640)	28791	5.00000	5.12
19	Carbon Disulfide	76	2.521	2.510	(0.524)	48970	10.0000	9.30
20	trans-1,2-Dichloroethene	96	3.057	3.050	(0.635)	10326	5.00000	4.86
21	Vinyl Acetate	43	4.347	4.339	(0.903)	9536	10.0000	7.59(M)

22 1,1-Dichloroethane	63	3.514	3.507 (0.730)	18686	5.00000	4.58
23 Chloroprene	53	3.608	3.601 (0.749)	14926	5.00000	4.99(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
24	2-Butanone	43	4.272	4.260	(0.887)	10743	10.0000	8.44
25	Methacrylonitrile	41	4.500	4.489	(0.935)	6036	5.00000	4.56(a)
26	2,2-Dichloropropane	77	4.185	4.174	(0.869)	12425	5.00000	4.64
27	cis-1,2-Dichloroethene	96	4.197	4.189	(0.872)	11931	5.00000	4.55
28	Chloroform	83	4.575	4.568	(0.950)	18694	5.00000	4.59
29	Bromochloromethane	128	4.470	4.463	(0.928)	6036	5.00000	5.25
$ 30	Dibromofluoromethane	113	4.748	4.744	(0.986)	9474	5.00000	4.87
31	1,1,1-Trichloroethane	97	4.740	4.736	(0.984)	13454	5.00000	4.71
32	1,1-Dichloropropene	75	4.920	4.916	(0.886)	14692	5.00000	4.92
33	1,2-Dichloroethane	62	5.175	5.171	(0.932)	15306	5.00000	5.53(M)
34	Carbon Tetrachloride	117	4.909	4.905	(0.884)	10732	5.00000	4.59(M)
$ 35	1,2-Dichloroethane-d4	65	5.096	5.093	(1.058)	11774	5.00000	5.76
* 36	1,4-Difluorobenzene	114	5.554	5.550	(1.000)	411950	50.0000	
37	Benzene	78	5.138	5.134	(0.925)	44829	5.00000	4.62
38	Trichloroethene	130	5.786	5.786	(1.042)	11283	5.00000	4.72(a)
39	Bromodichloromethane	83	6.277	6.277	(1.130)	10936	5.00000	4.19(a)
40	Methyl Methacrylate	41	5.827	5.827	(1.210)	4802	5.00000	5.27(a)
41	2-Chloroethylvinyl ether	63	6.577	6.573	(1.184)	5106	10.0000	9.28
42	1,2-Dichloropropane	63	6.007	6.007	(1.082)	11260	5.00000	4.39(aM)
43	2-Nitropropane	43	6.510	6.506	(1.352)	1819	5.00000	5.51(M)
44	Dibromomethane	93	6.120	6.116	(1.102)	6505	5.00000	4.37(a)
45	4-Methyl-2-Pentanone	43	6.855	6.851	(0.838)	21975	10.0000	9.32
46	cis-1,3-Dichloropropene	75	6.693	6.690	(1.205)	13035	5.00000	4.65(a)
* 47	Chlorobenzene-d5	117	8.182	8.185	(1.000)	372525	50.0000	
$ 48	Toluene-d8	98	6.922	6.918	(0.846)	36100	5.00000	5.26
49	Ethyl Methacrylate	69	7.289	7.289	(1.312)	14235	5.00000	4.46(a)
50	Toluene	91	6.982	6.978	(0.853)	43888	5.00000	4.34(a)
51	trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	9852	5.00000	4.64(a)
52	2-Hexanone	43	7.593	7.589	(0.928)	12848	10.0000	9.63(M)
53	1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	8641	5.00000	4.57(a)
54	1,3-Dichloropropane	76	7.496	7.499	(0.916)	18280	5.00000	4.43(a)
55	Dibromochloromethane	129	7.690	7.690	(0.940)	7567	5.00000	4.39(a)
56	Tetrachloroethene	164	7.454	7.454	(0.911)	8433	5.00000	4.77(a)
57	1,2-Dibromoethane	107	7.784	7.784	(0.951)	9614	5.00000	4.32(a)
58	1-Chlorohexane	55	8.193	8.196	(1.475)	11209	5.00000	5.83
59	Chlorobenzene	112	8.208	8.208	(1.003)	29257	5.00000	4.55(a)
60	1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	8768	5.00000	4.27(a)
61	Ethylbenzene	106	8.305	8.305	(1.015)	14250	5.00000	4.87(a)
62	m,p-Xylenes	106	8.406	8.406	(1.027)	39064	10.0000	9.49(a)
63	o-Xylene	106	8.744	8.744	(1.069)	17958	5.00000	5.39
64	Styrene	104	8.763	8.759	(1.071)	26246	5.00000	4.25(a)
66	Bromoform	173	8.916	8.916	(1.090)	4403	5.00000	4.63(Ta)
67	Isopropylbenzene	105	9.059	9.059	(1.107)	40665	5.00000	4.57(a)
68	1,1,2,2-Tetrachloroethane	83	9.325	9.329	(0.917)	15063	5.00000	4.54(a)
$ 69	4-Bromofluorobenzene	95	9.194	9.190	(1.124)	14171	5.00000	5.38
* 70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	199318	50.0000	
71	1,2,3-Trichloropropane	75	9.359	9.362	(0.920)	13410	5.00000	4.31(aM)
72	trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	2457	5.00000	3.86(a)
73	n-Propylbenzene	91	9.411	9.411	(0.926)	46926	5.00000	4.36(a)
74	Bromobenzene	156	9.317	9.317	(0.916)	12506	5.00000	4.56(a)
75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	34885	5.00000	4.60(a)
76	2-Chlorotoluene	91	9.482	9.482	(0.933)	31374	5.00000	4.63(a)

77 4-Chlorotoluene	91	9.576	9.576 (0.942)	34706	5.00000	4.50(a)
78 tert-Butylbenzene	119	9.835	9.835 (0.967)	27653	5.00000	4.58(aM)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	43795	5.00000	4.27(a)
81	sec-Butylbenzene	105	10.018	10.022	(0.985)	36640	5.00000	4.47(a)
82	p-Isopropyltoluene	119	10.142	10.146	(0.997)	31131	5.00000	4.36(a)
83	1,3-Dichlorobenzene	146	10.112	10.116	(0.994)	20563	5.00000	4.44(aM)
84	1,4-Dichlorobenzene	146	10.187	10.191	(1.002)	23409	5.00000	4.56(a)
86	Benzyl Chloride	91	10.311	10.311	(1.260)	12197	5.00000	5.26
87	n-Butylbenzene	91	10.491	10.491	(1.032)	28223	5.00000	4.72(a)
88	1,2-Dichlorobenzene	146	10.506	10.502	(1.033)	21652	5.00000	4.51(aM)
89	1,2-Dibromo-3-Chloropropane	155	11.166	11.165	(1.098)	1716	5.00000	5.01
90	1,2,4-Trichlorobenzene	180	11.859	11.855	(1.166)	12545	5.00000	4.15(a)
91	Hexachlorobutadiene	225	11.994	11.998	(1.180)	5266	5.00000	4.34(a)
92	Naphthalene	128	12.069	12.065	(1.187)	32575	5.00000	4.37(a)
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	12191	5.00000	4.33(a)
146	Methyl acetate	43	2.716	2.708	(0.564)	11748	5.00000	5.44
138	Freon TF	101	2.337	2.326	(0.485)	7685	5.00000	5.37
141	Cyclohexane	56	4.782	4.778	(0.993)	17154	5.00000	5.39
142	Tetrahydrofuran	42	4.549	4.542	(0.945)	5039	10.0000	10.86
147	Methylcyclohexane	55	5.947	5.944	(1.071)	23229	5.00000	5.22
135	1,4-Dioxane	88	6.172	6.168	(1.282)	3681	100.000	114.87
132	n-Butanol	56	5.827	5.827	(1.210)	6842	100.000	89.20(a)
136	n-Hexane	57	3.338	3.331	(0.693)	9230	5.00000	5.56
139	Diethyl ether	59	2.146	2.139	(0.446)	8354	5.00000	5.17
148	Tert-butyl alcohol	59	2.975	2.975	(0.618)	24373	100.000	111.13
149	Isopropyl alcohol	45	2.570	2.570	(0.534)	17652	100.000	105.12(T)
152	Amyl alcohol	42	7.402	7.398	(0.905)	7303	100.000	109.09
156	Diisopropyl ether	45	3.623	3.619	(0.752)	34889	5.00000	4.79(Ta)
162	Butyl acrylate	55	8.733	8.733	(1.067)	17657	5.00000	5.35
187	n-Amyl acetate	43	8.931	8.931	(1.092)	18695	5.00000	4.62(aM)
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	48465	5.00000	4.74(a)
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	35395	5.00000	5.75
167	Ethanol	45	2.086	2.086	(0.433)	3681	100.000	115.80
172	tert-Butyl formate	59	5.243	5.250	(1.089)	21868	10.0000	9.72
173	3,3-Dimethyl-1-butanol	57	7.780	7.784	(0.951)	26557	100.000	102.42
174	tert-Amyl methyl ether	73	5.288	5.284	(1.098)	31679	5.00000	4.75(a)
175	tert-Butyl ethyl ether	59	4.054	4.047	(0.842)	31049	5.00000	4.76(a)
176	tert-Amyl alcohol	59	5.243	5.250	(1.089)	21868	100.000	96.11
151	4-Methyl-2-pentanol	45	7.214	7.222	(1.299)	63851	100.000	109.46
140	1,3-Butadiene	54	1.404	1.396	(0.292)	5559	5.00000	5.27
182	Epichlorohydrin	57	6.630	6.630	(1.194)	2221	20.0000	17.49(M)
M 94	1,2-Dichloroethylene (total)	96				22257	10.0000	(a)
130	Ethyl Acetate	43	4.347	4.339	(0.903)	11342	5.00000	4.32(a)
131	Methyl Acrylate	55	4.377	4.365	(0.909)	13966	5.00000	5.27
189	n-Butyl acetate	43	7.705	7.702	(0.942)	16090	5.00000	4.11(a)
134	Cyclohexanone	55	9.152	9.152	(0.900)	11414	100.000	111.28(a)
185	Isoprene	39	2.157	2.146	(0.448)	2012	5.00000	5.15
188	Isopropyl acetate	43	5.284	5.284	(0.951)	30786	5.00000	4.50(a)
150	Allyl alcohol	57	3.338	3.331	(0.693)	9230	100.000	111.23
194	Acetaldehyde	44	1.464	1.453	(0.304)	8362	20.0000	17.67(M)
195	Methyl Amyl Ketone	43	8.868	8.868	(1.084)	20685	5.00000	4.55(a)
200	Dimethyl Disulfide	94	6.742	6.746	(0.824)	3903	5.00000	6.97
202	Isobutylene	41	1.749	1.734	(0.363)	5256	5.00000	5.57(M)
133	Ethyl Acrylate	55	5.947	5.944	(1.235)	23229	5.00000	5.17

163 Butyl methacrylate	41	9.647	9.647 (0.949)	10406	5.00000	4.51(aM)
159 Propylene oxide	43	2.206	2.191 (0.458)	1607	10.0000	8.97

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052906.D Page 4
Report Date: 07-Jun-2024 10:54

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
203 2-Ethylhexyl Acrylate	55	12.043	12.039	(1.184)	8052	5.00000	4.69(a)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa9,i\U240529,b\U052906,D
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Client ID: VSTD005
Sample Info: VSTD005;VSTD005;1;5
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: FT
Column diameter: 0.18

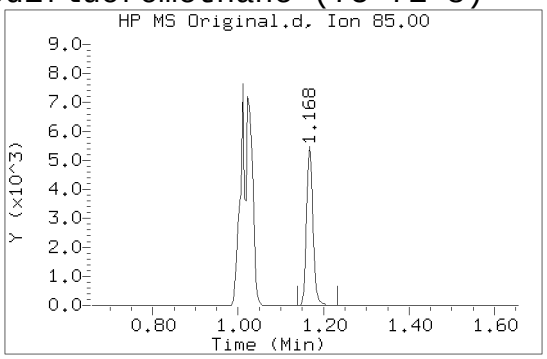
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LabSampID : VSTD005

Dichlorodifluoromethane (75-71-8)

Reason Code:

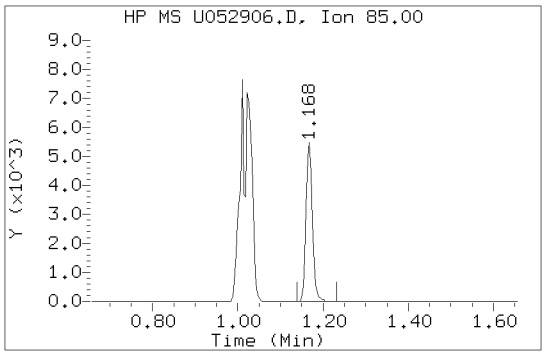
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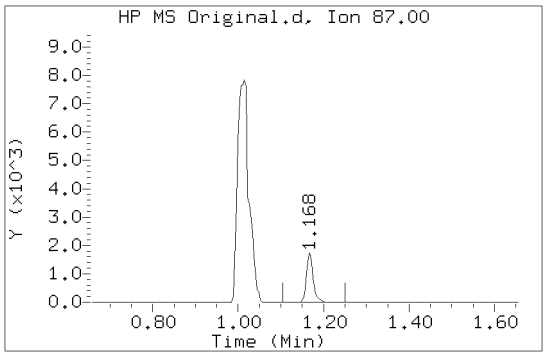
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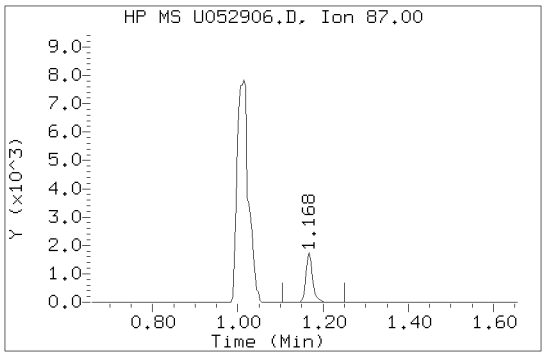
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AFTER

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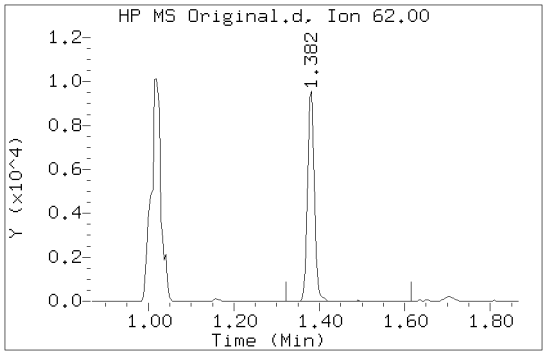


Vinyl Chloride (75-01-4)

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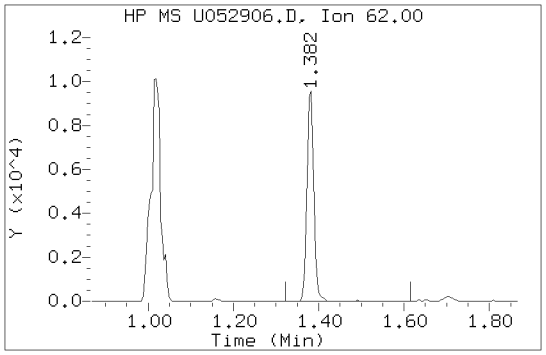
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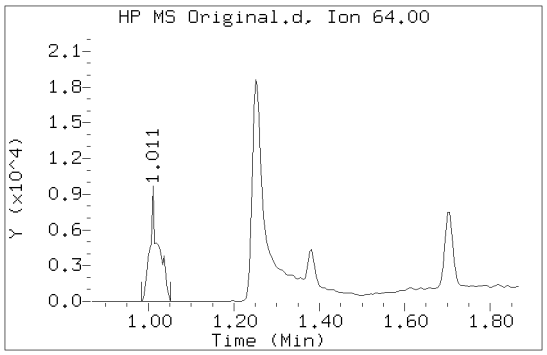
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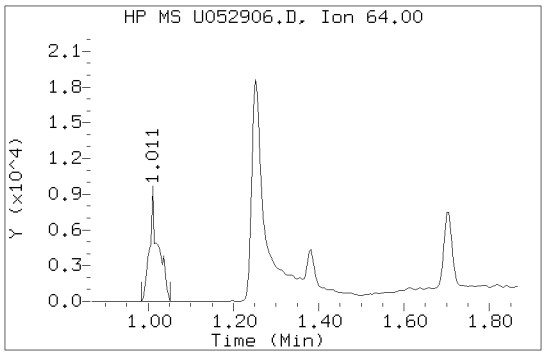
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AFTER

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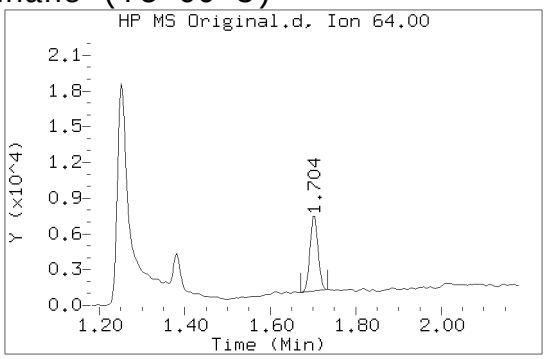
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Chloroethane (75-00-3)

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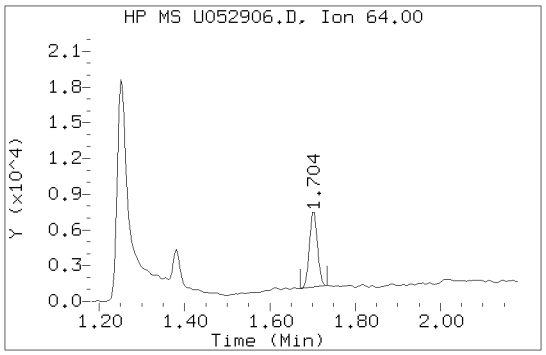
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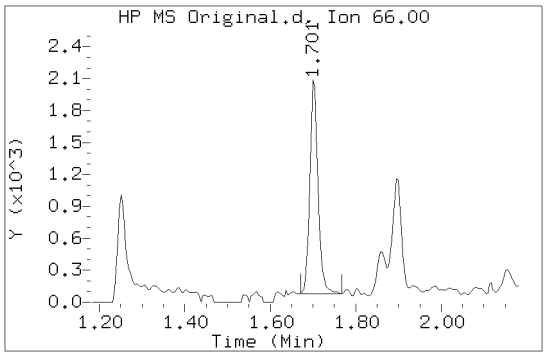
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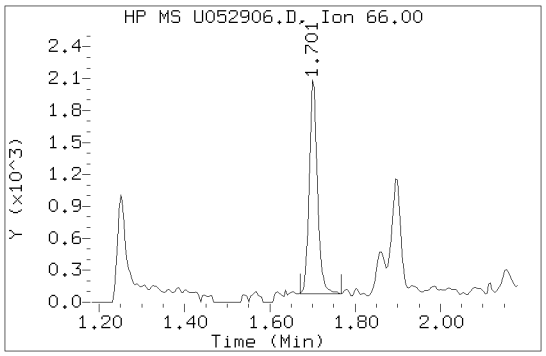
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AFTER

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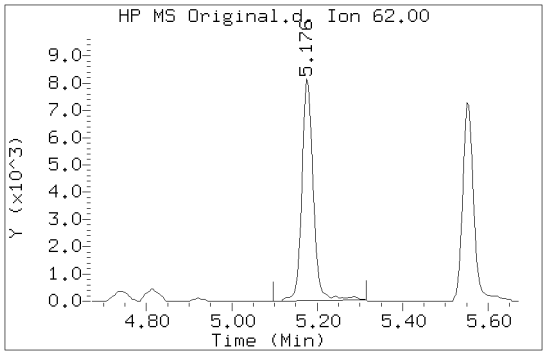


1,2-Dichloroethane (107-06-2)

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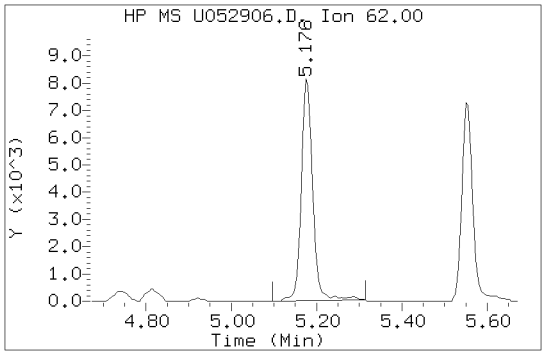
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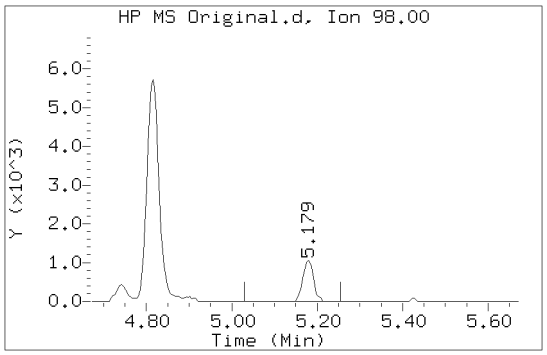
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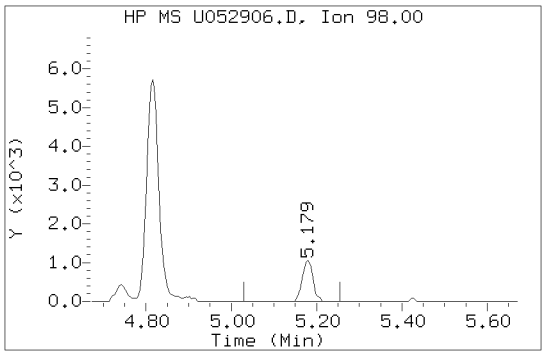
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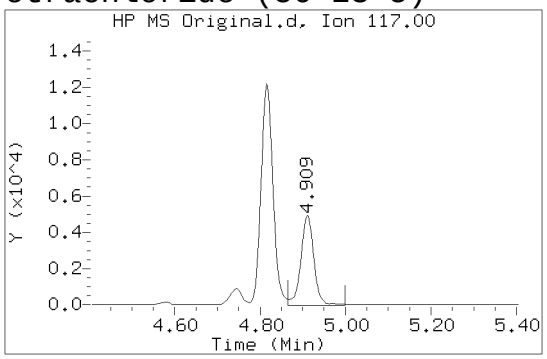


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LabSampID : VSTD005

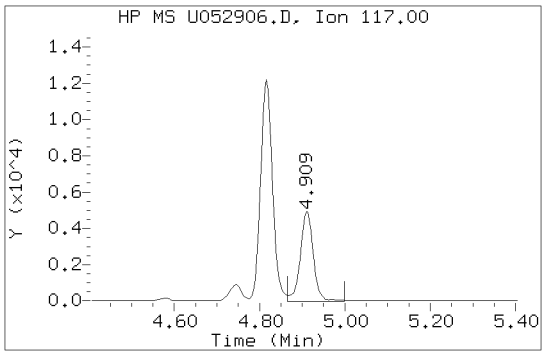
Carbon Tetrachloride (56-23-5)

Reason Code:

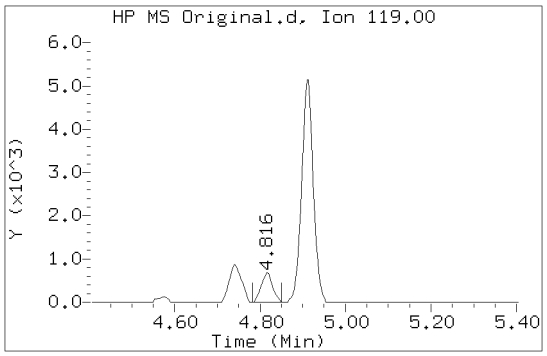
BEFORE
MASS
117
AREA
10732
HEIGHT
4949
06-Jun-2024
17:10
s
zaid



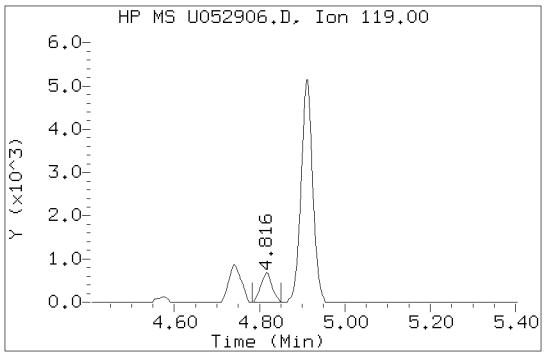
AFTER
MASS
117
AREA
10732
HEIGHT
4949
07-Jun-2024
10:36



BEFORE
MASS
119
AREA
1251
HEIGHT
683
06-Jun-2024
17:10
s
zaid



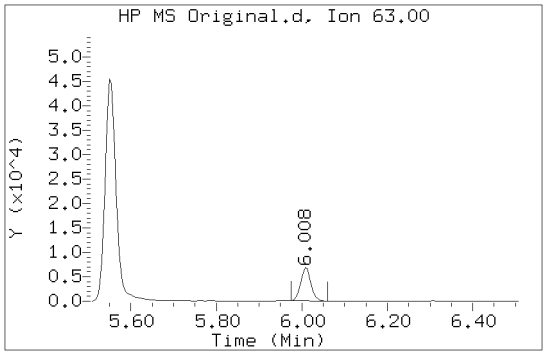
AFTER
MASS
119
AREA
1251
HEIGHT
683
07-Jun-2024
10:36



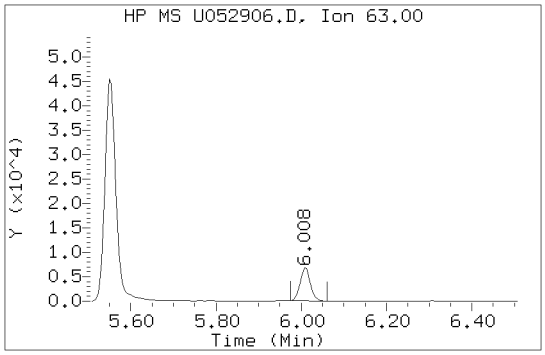
1,2-Dichloropropane (78-87-5)

Reason Code:

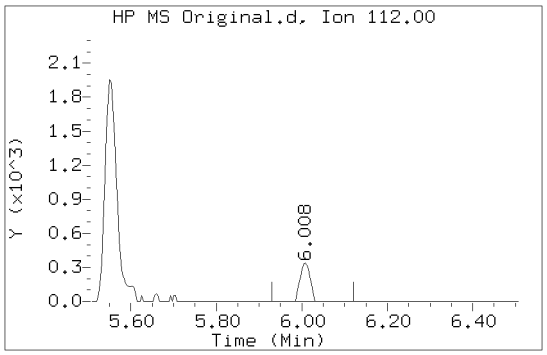
BEFORE
MASS
63
AREA
11260
HEIGHT
6693
06-Jun-2024
17:10
s
zaid



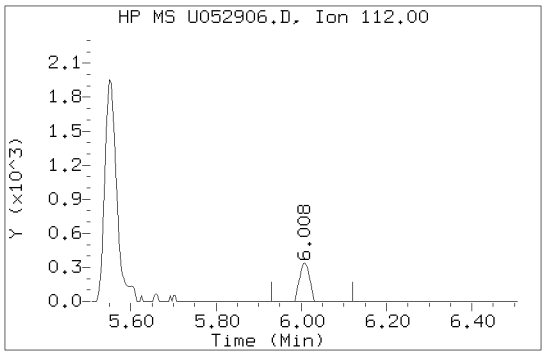
AFTER
MASS
63
AREA
11260
HEIGHT
6693
07-Jun-2024
10:36



BEFORE
MASS
112
AREA
560
HEIGHT
339
06-Jun-2024
17:10
s
zaid



AFTER
MASS
112
AREA
560
HEIGHT
339
07-Jun-2024
10:36

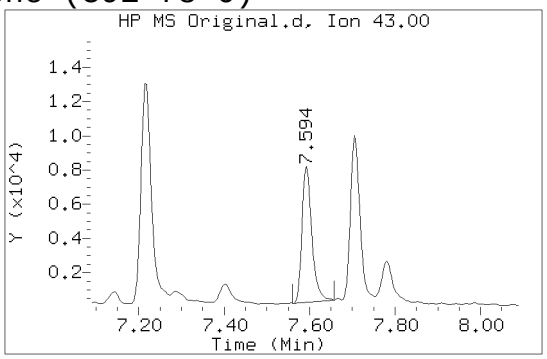


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InstruID : VOA9.i
LabSampID : VSTD005

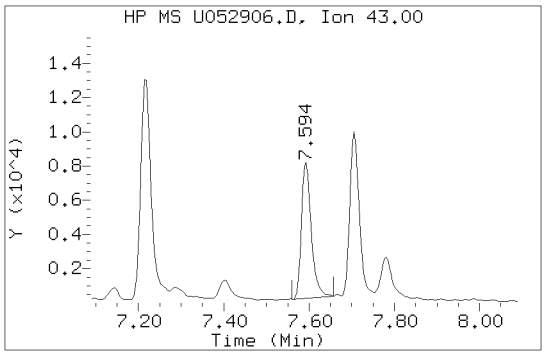
2-Hexanone (591-78-6)

Reason Code:

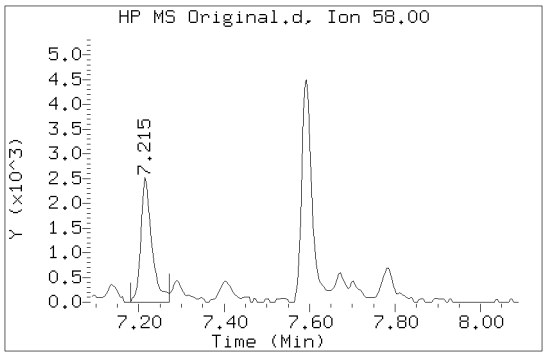
BEFORE
MASS
43
AREA
12848
HEIGHT
7941
06-Jun-2024
17:10
s
zaid



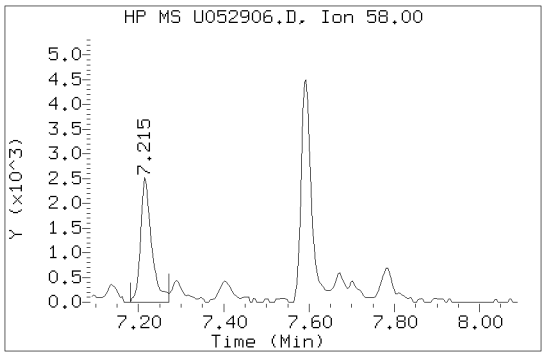
AFTER
MASS
43
AREA
12848
HEIGHT
7941
07-Jun-2024
10:36



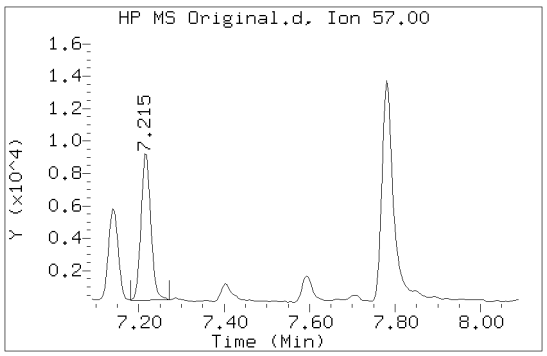
BEFORE
MASS
58
AREA
4543
HEIGHT
2520
06-Jun-2024
17:10
s
zaid



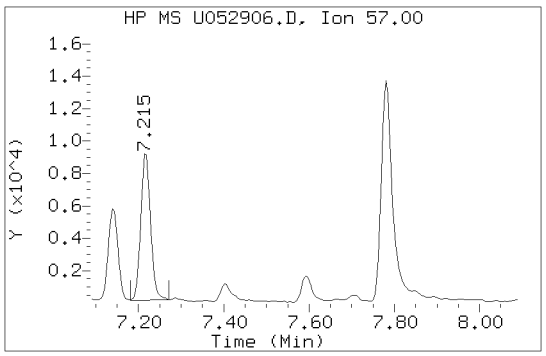
AFTER
MASS
58
AREA
4543
HEIGHT
2520
07-Jun-2024
10:36



BEFORE
MASS
57
AREA
14408
HEIGHT
9049
06-Jun-2024
17:10
s
zaid



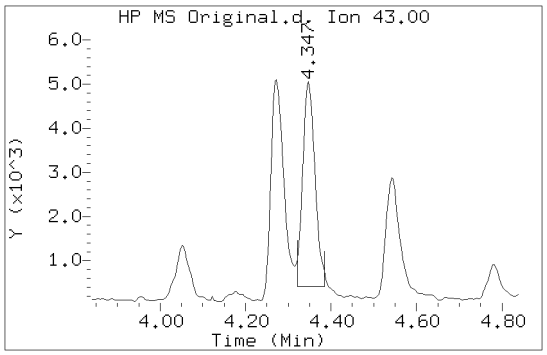
AFTER
MASS
57
AREA
14408
HEIGHT
9049
07-Jun-2024
10:36



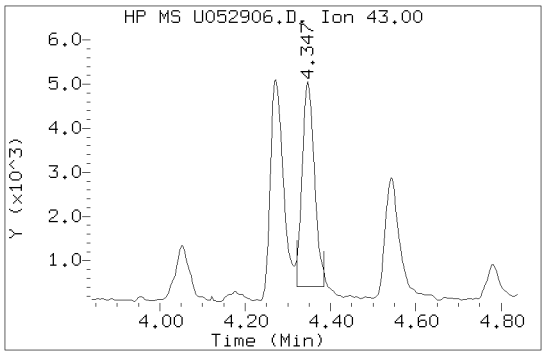
Vinyl Acetate (108-05-4)

Reason Code:

BEFORE
MASS
43
AREA
9536
HEIGHT
4648
06-Jun-2024
17:10
s
zaid



AFTER
MASS
43
AREA
9536
HEIGHT
4648
07-Jun-2024
10:36

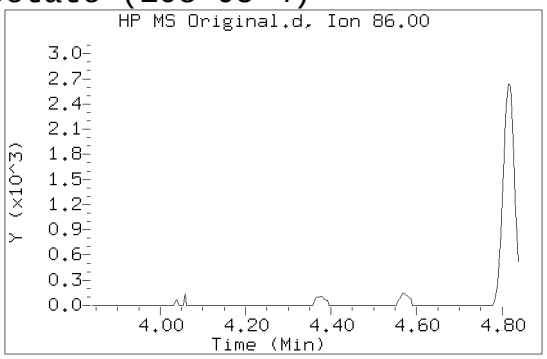


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052906.D
Inj Date : 29-MAY-2024 12:05
InstruID : VOA9.i
LabSampID : VSTD005

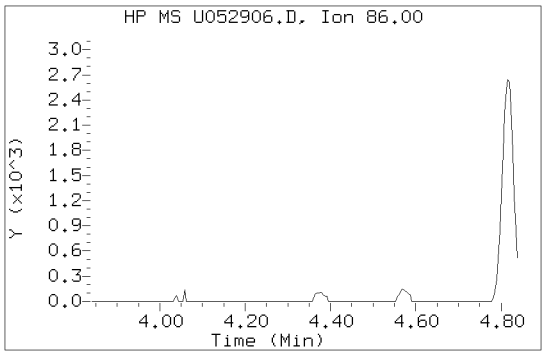
Vinyl Acetate (108-05-4)

Reason Code:

BEFORE
MASS
86
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



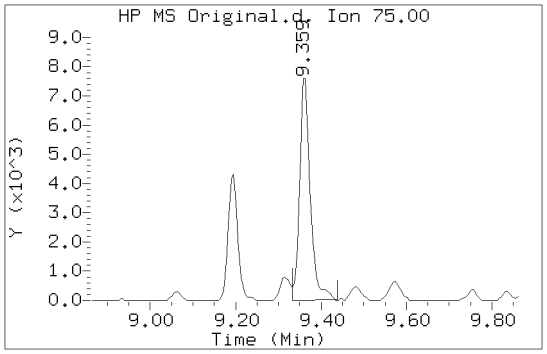
AFTER
MASS
86
AREA
0
HEIGHT
0
07-Jun-2024
10:36



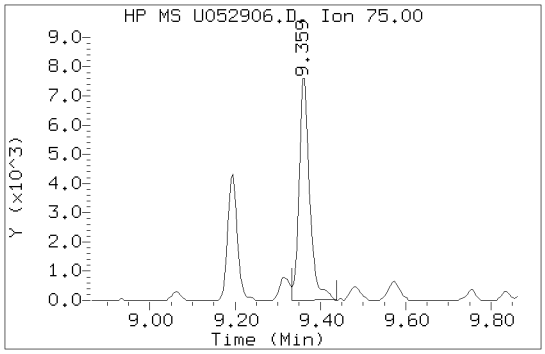
1,2,3-Trichloropropane (96-18-4)

Reason Code:

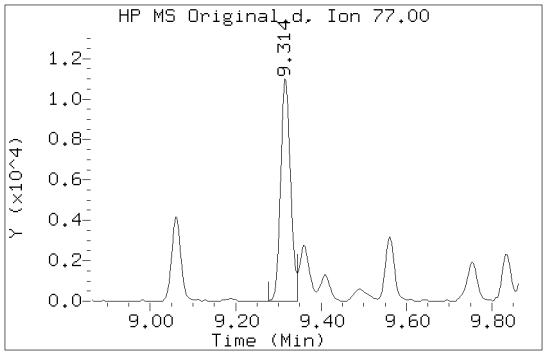
BEFORE
MASS
75
AREA
13410
HEIGHT
7583
06-Jun-2024
17:10
s
zaid



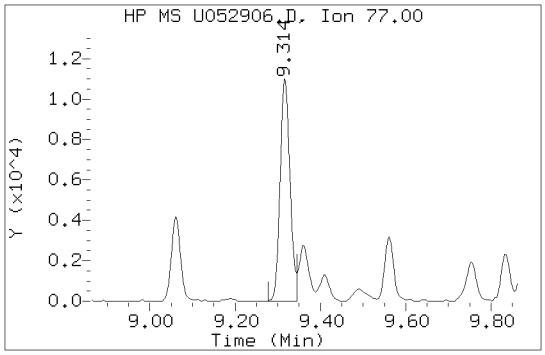
AFTER
MASS
75
AREA
13410
HEIGHT
7583
07-Jun-2024
10:36



BEFORE
MASS
77
AREA
17860
HEIGHT
10998
06-Jun-2024
17:10
s
zaid



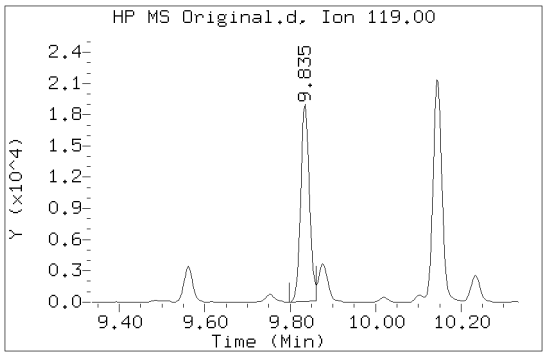
AFTER
MASS
77
AREA
17860
HEIGHT
10998
07-Jun-2024
10:36



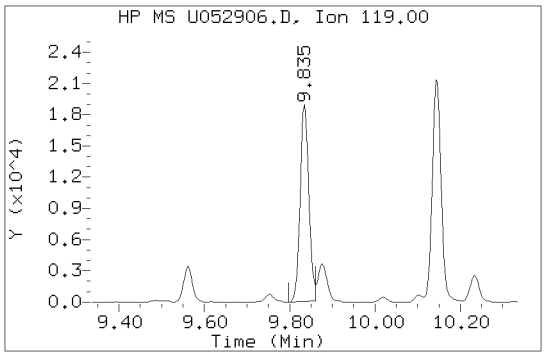
tert-Butylbenzene (98-06-6)

Reason Code:

BEFORE
MASS
119
AREA
27653
HEIGHT
18977
06-Jun-2024
17:10
s
zaid



AFTER
MASS
119
AREA
27653
HEIGHT
18977
07-Jun-2024
10:36



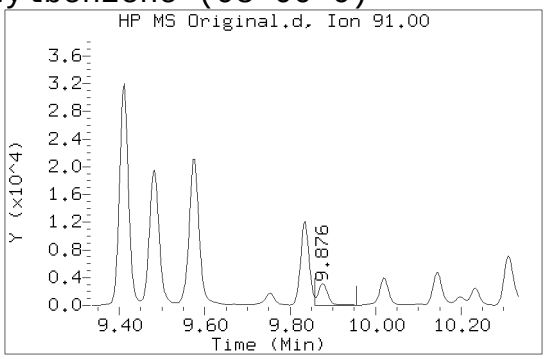
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052906.D
Inj Date : 29-MAY-2024 12:05
InstruID : VOA9.i
LabSampID : VSTD005

tert-Butylbenzene (98-06-6)

Reason Code:

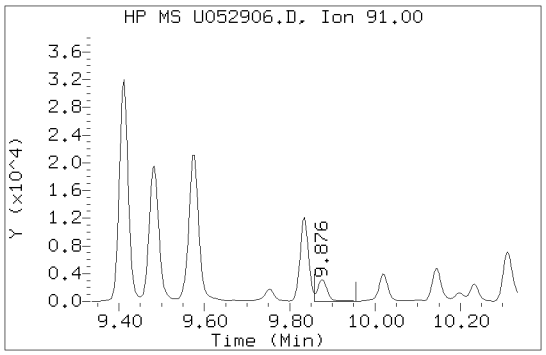
BEFORE

MASS
91
AREA
5166
HEIGHT
3121
06-Jun-2024
17:10
s
zaid



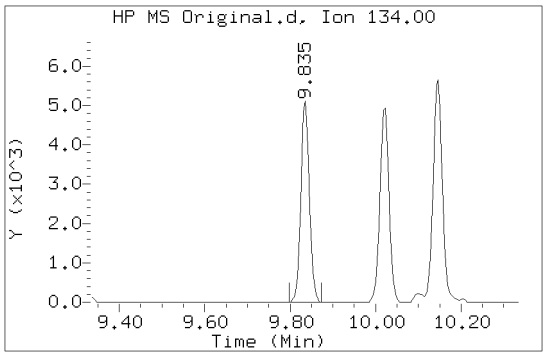
AFTER

MASS
91
AREA
5166
HEIGHT
3121
07-Jun-2024
10:36



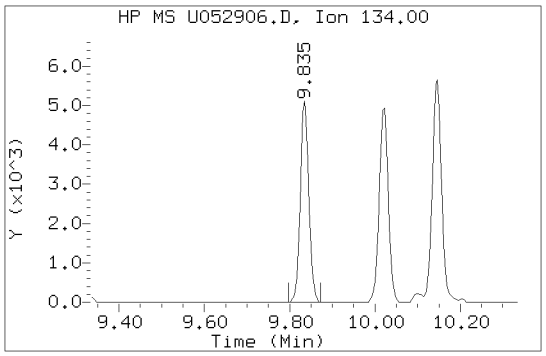
BEFORE

MASS
134
AREA
7218
HEIGHT
5118
06-Jun-2024
17:10
s
zaid



AFTER

MASS
134
AREA
7218
HEIGHT
5118
07-Jun-2024
10:36

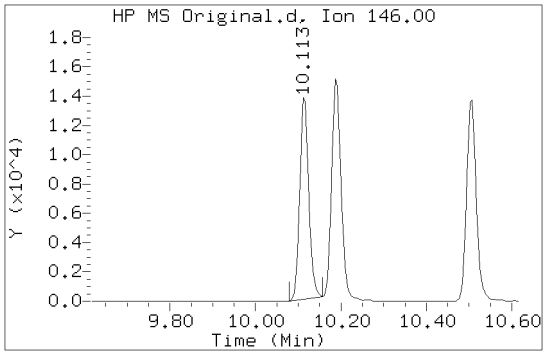


1,3-Dichlorobenzene (541-73-1)

Reason Code:

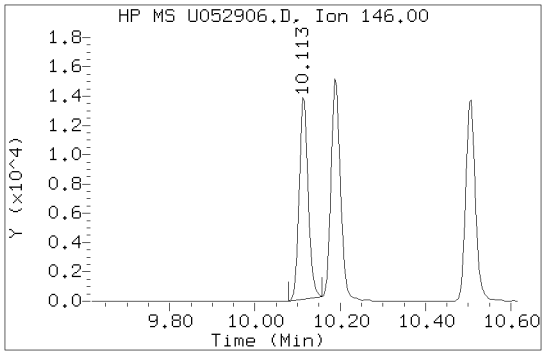
BEFORE

MASS
146
AREA
20563
HEIGHT
13765
06-Jun-2024
17:10
s
zaid



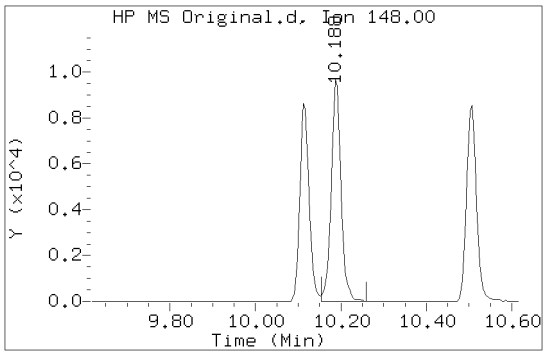
AFTER

MASS
146
AREA
20563
HEIGHT
13765
07-Jun-2024
10:36



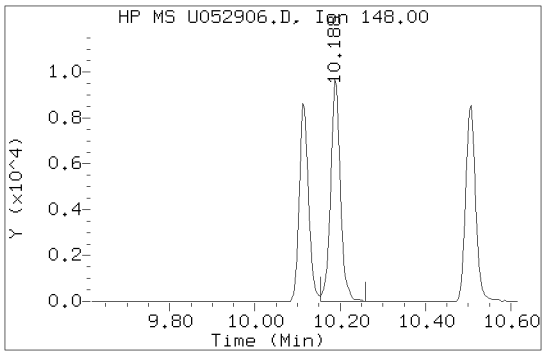
BEFORE

MASS
148
AREA
15345
HEIGHT
9669
06-Jun-2024
17:10
s
zaid



AFTER

MASS
148
AREA
15345
HEIGHT
9669
07-Jun-2024
10:36



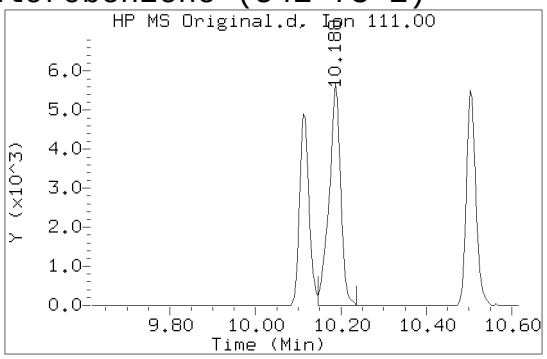
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Inj Date : 29-MAY-2024 12:05
InstruID : VOA9.i
LabSampID : VSTD005

1,3-Dichlorobenzene (541-73-1)

Reason Code:

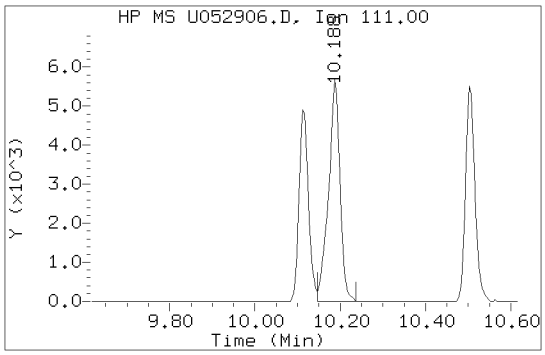
BEFORE

MASS
111
AREA
10600
HEIGHT
5677
06-Jun-2024
17:10
s
zaid



AFTER

MASS
111
AREA
10600
HEIGHT
5677
07-Jun-2024
10:36

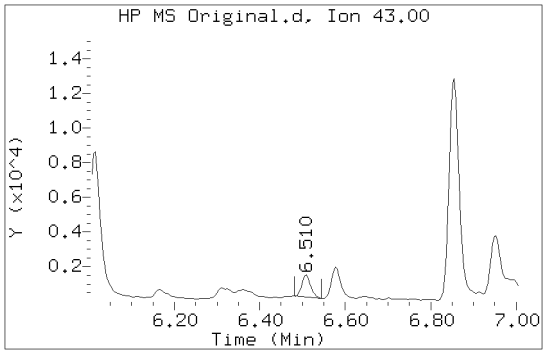


2-Nitropropane (79-46-9)

Reason Code:

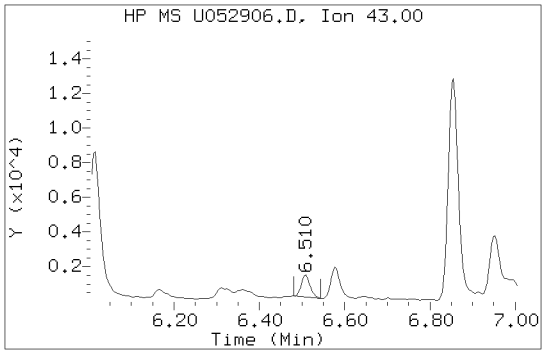
BEFORE

MASS
43
AREA
1819
HEIGHT
1291
06-Jun-2024
17:10
s
zaid



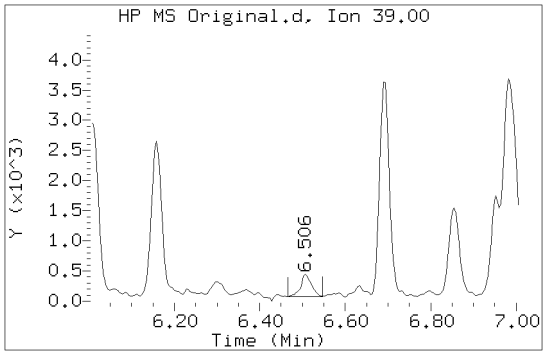
AFTER

MASS
43
AREA
1819
HEIGHT
1291
07-Jun-2024
10:36



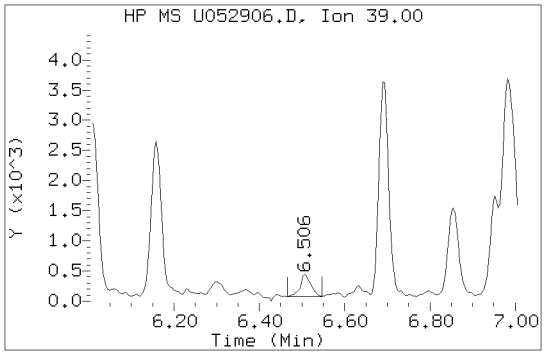
BEFORE

MASS
39
AREA
642
HEIGHT
371
06-Jun-2024
17:10
s
zaid



AFTER

MASS
39
AREA
642
HEIGHT
371
07-Jun-2024
10:36

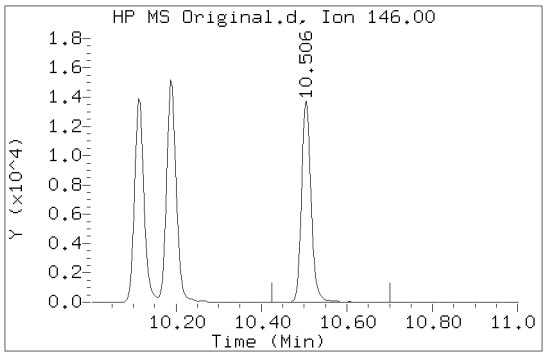


1,2-Dichlorobenzene (95-50-1)

Reason Code:

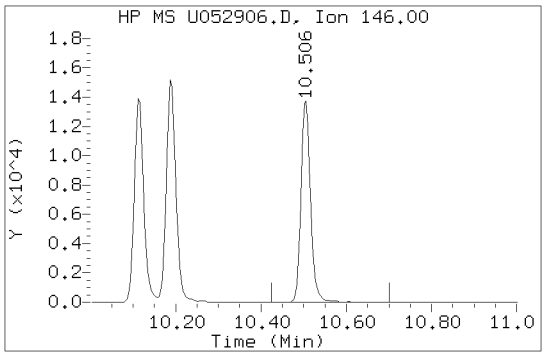
BEFORE

MASS
146
AREA
21652
HEIGHT
13716
06-Jun-2024
17:10
s
zaid



AFTER

MASS
146
AREA
21652
HEIGHT
13716
07-Jun-2024
10:36



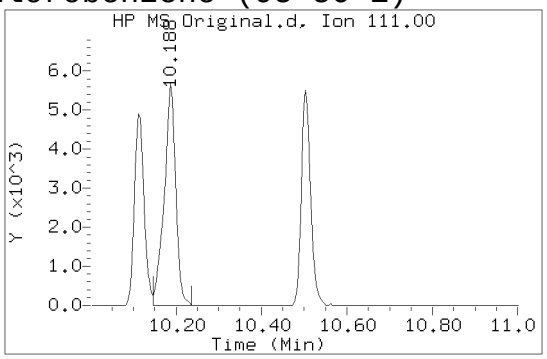
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Inj Date : 29-MAY-2024 12:05
InstruID : VOA9.i
LabSampID : VSTD005

1,2-Dichlorobenzene (95-50-1)

Reason Code:

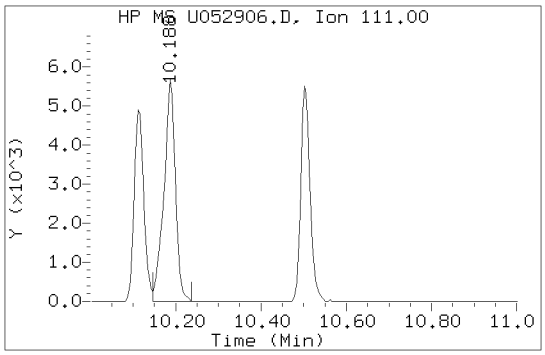
BEFORE

MASS
111
AREA
10600
HEIGHT
5677
06-Jun-2024
17:10
s
zaid



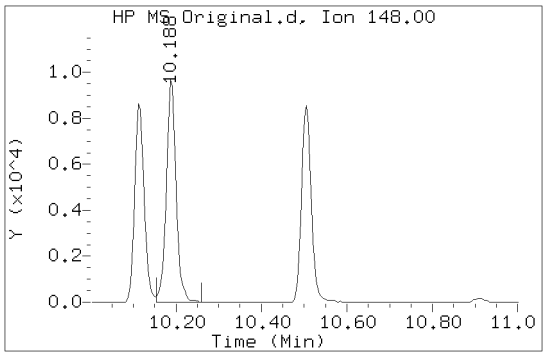
AFTER

MASS
111
AREA
10600
HEIGHT
5677
07-Jun-2024
10:36



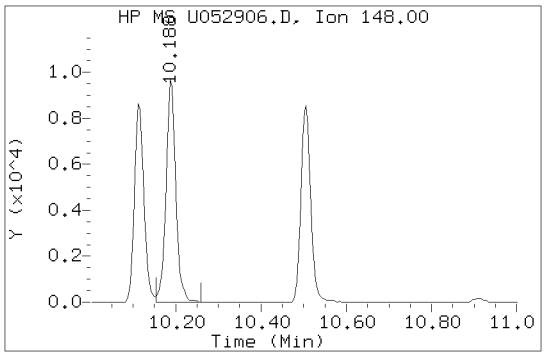
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AFTER

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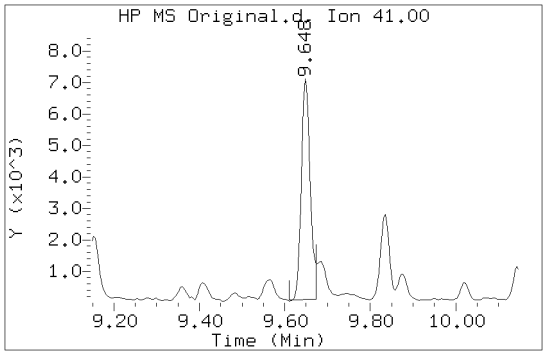


Butyl methacrylate (97-88-1)

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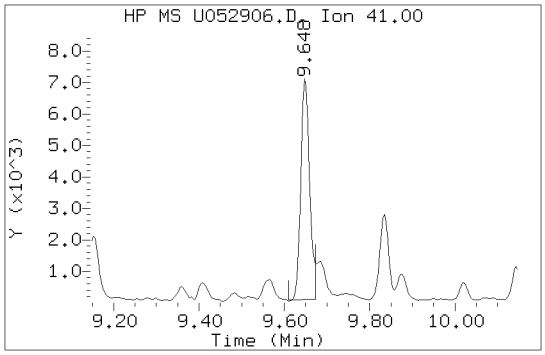
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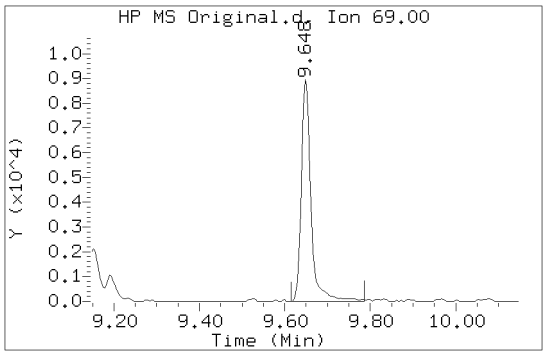
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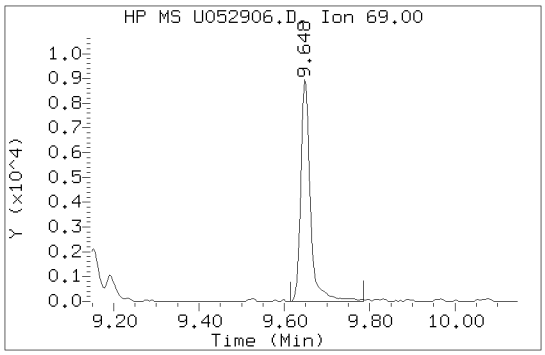
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AFTER

MASS
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07-Jun-2024
10:36



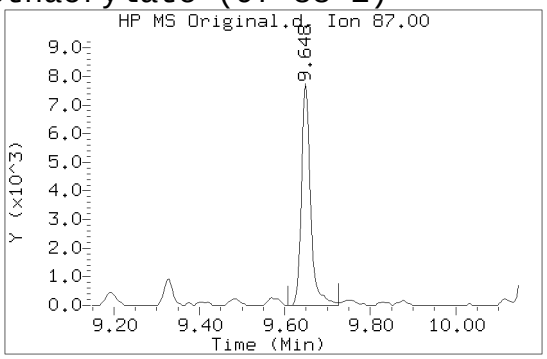
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InstruID : VOA9.i
LabSampID : VSTD005

Butyl methacrylate (97-88-1)

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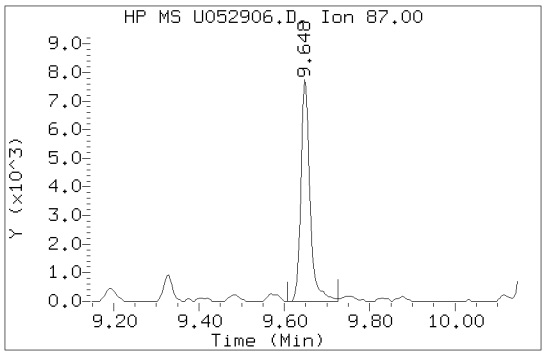
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AFTER

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07-Jun-2024
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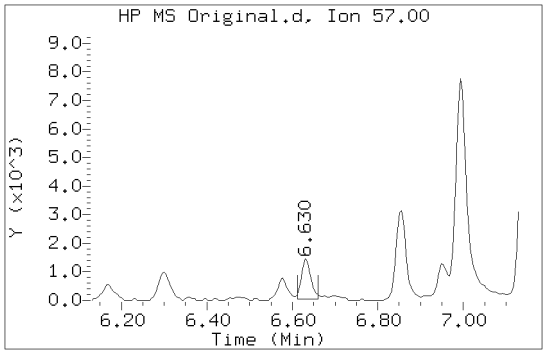


Epichlorohydrin (106-89-8)

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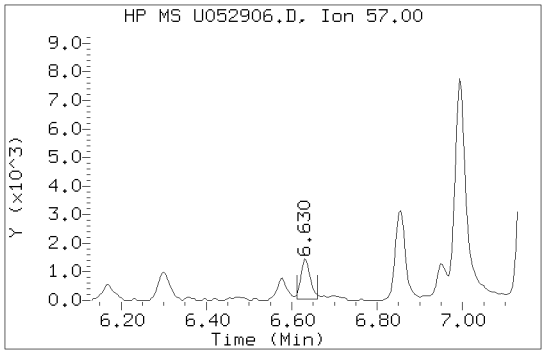
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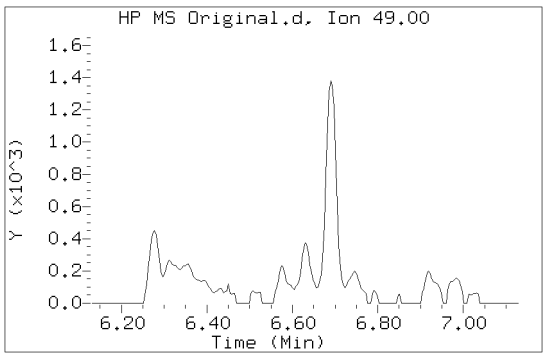
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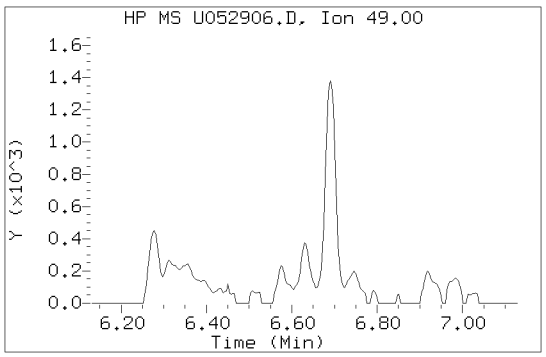
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AFTER

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HEIGHT
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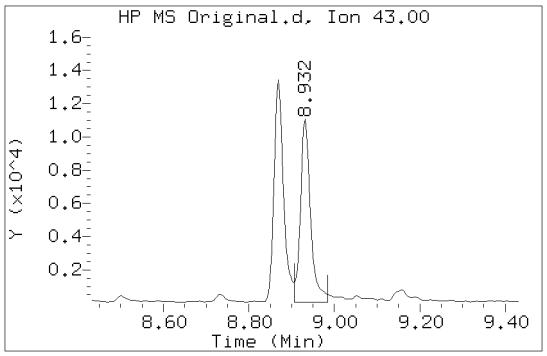


n-Amyl acetate (628-63-7)

Reason Code:

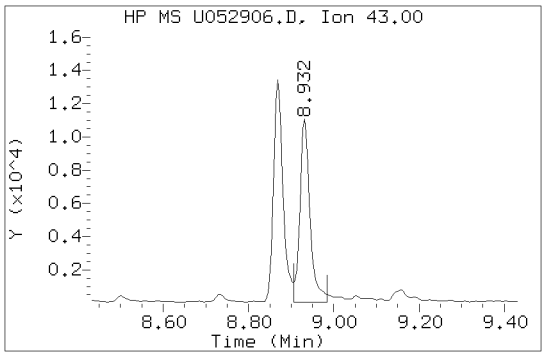
BEFORE

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11022
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AFTER

MASS
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10:36

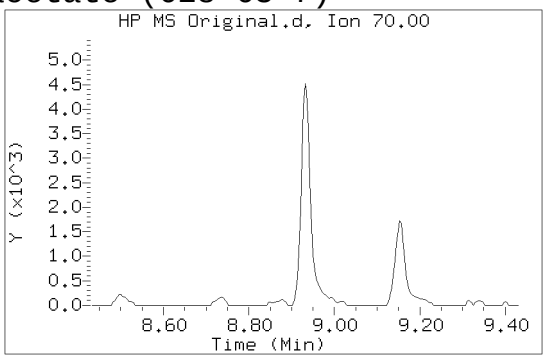


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InstruID : VOA9.i
LabSampID : VSTD005

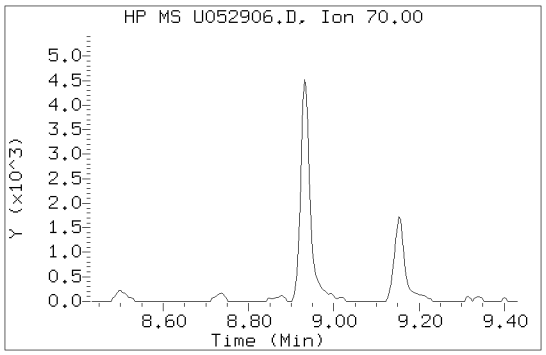
n-Amyl acetate (628-63-7)

Reason Code:

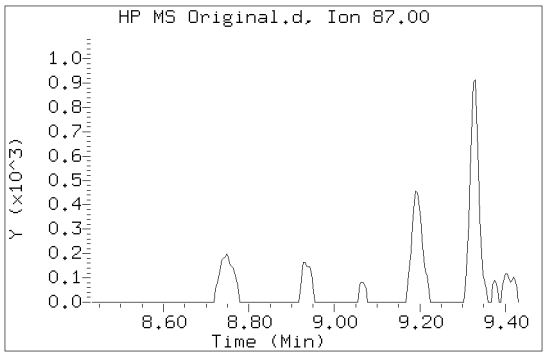
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06-Jun-2024
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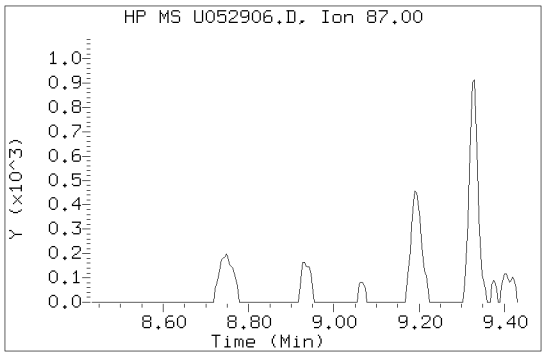
AFTER
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10:36



BEFORE
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0
HEIGHT
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06-Jun-2024
17:10
s
zaid



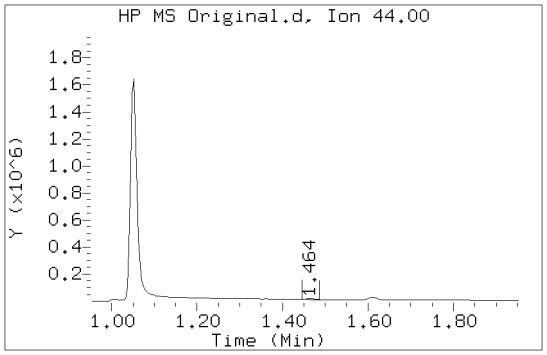
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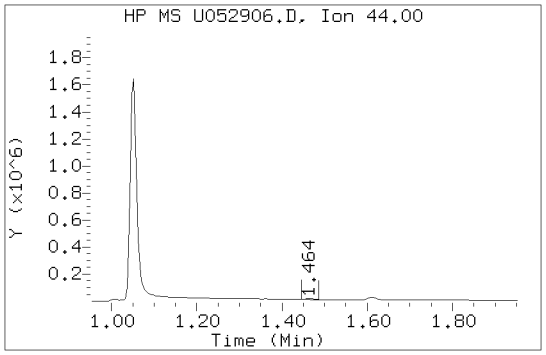
Acetaldehyde (75-07-0)

Reason Code:

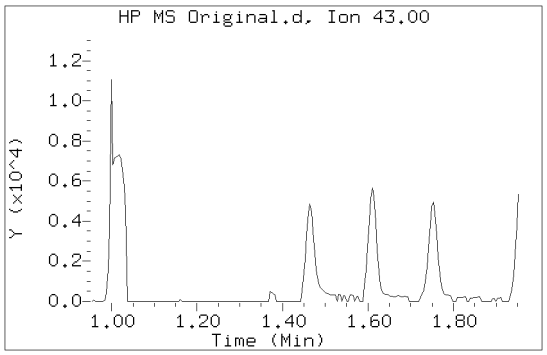
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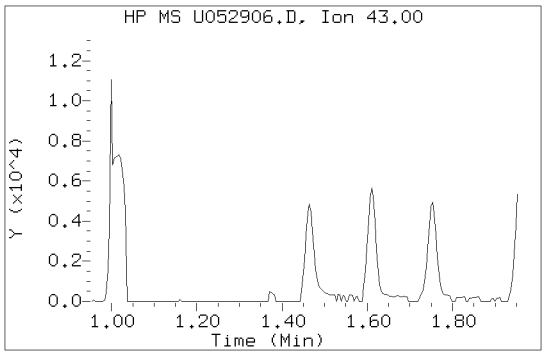
AFTER
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HEIGHT
6569
07-Jun-2024
10:36



BEFORE
MASS
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0
HEIGHT
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17:10
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zaid



AFTER
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HEIGHT
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07-Jun-2024
10:36

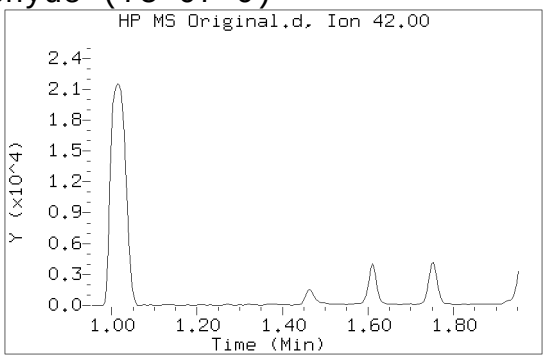


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LabSampID : VSTD005

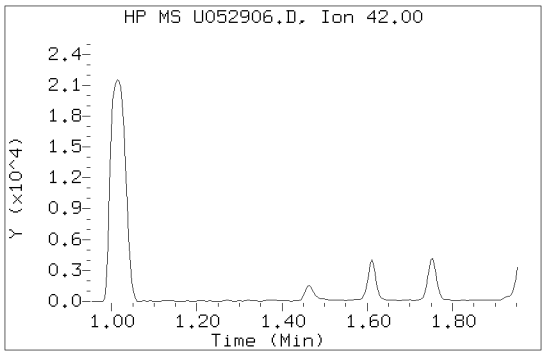
Acetaldehyde (75-07-0)

Reason Code:

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06-Jun-2024
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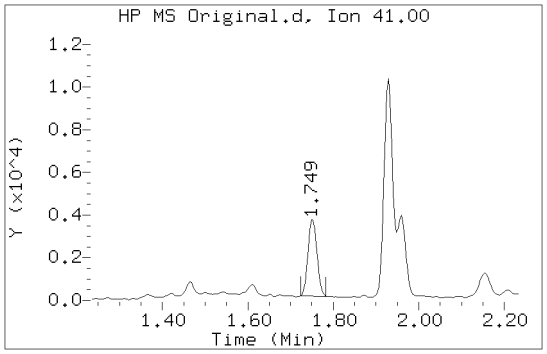
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07-Jun-2024
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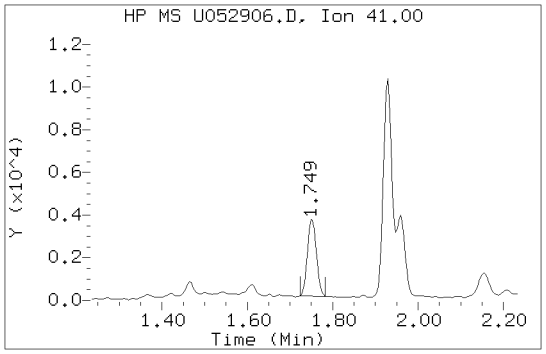
Isobutylene (115-11-7)

Reason Code:

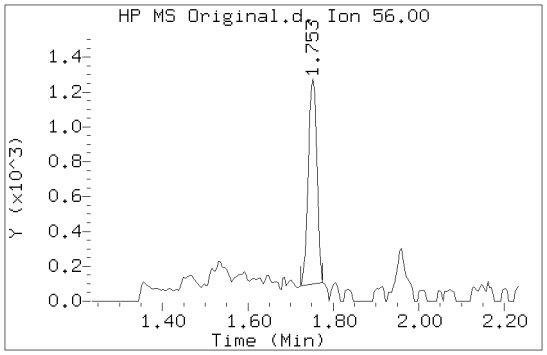
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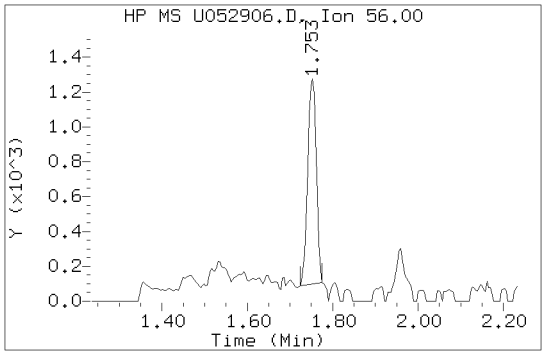
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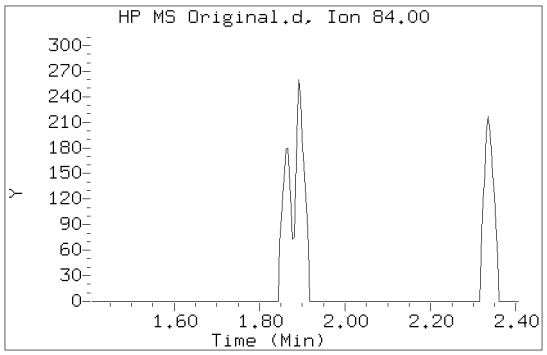
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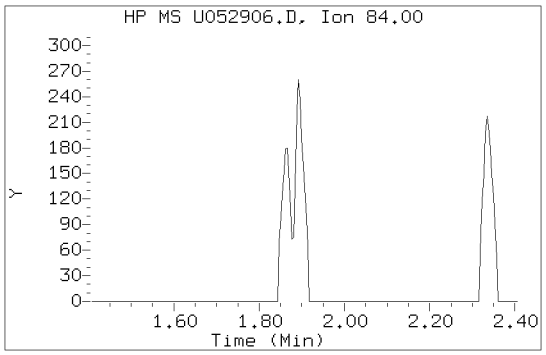
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07-Jun-2024
10:36



BEFORE
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06-Jun-2024
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s
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AFTER
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84
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0
HEIGHT
0
07-Jun-2024
10:36



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052907.D Page 1
Report Date: 07-Jun-2024 10:54

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052907.D
Lab Smp Id: VSTD020 Client Smp ID: VSTD020
Inj Date : 29-MAY-2024 12:26
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD020;VSTD020;1;6
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240529.b\8260C.m
Meth Date : 07-Jun-2024 10:14 r.patel Quant Type: ISTD
Cal Date : 29-MAY-2024 12:26 Cal File: U052907.D
Als bottle: 7 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.811	4.811	(1.000)	292016	50.0000	
2	Dichlorodifluoromethane	85	1.160	1.156	(0.241)	21269	20.0000	19.53(M)
3	Chloromethane	50	1.291	1.288	(0.268)	75709	20.0000	18.99
4	Propionitrile	54	4.335	4.339	(0.901)	64665	200.000	202.72(a)
5	Vinyl Chloride	62	1.374	1.366	(0.286)	42268	20.0000	19.16(M)
6	Bromomethane	94	1.610	1.595	(0.335)	21249	20.0000	20.91
7	Chloroethane	64	1.696	1.681	(0.353)	30548	20.0000	19.95(M)
8	Trichlorofluoromethane	101	1.891	1.884	(0.393)	51809	20.0000	19.78
9	Acrolein	56	2.262	2.259	(0.470)	3686	40.0000	34.83
10	Acetone	43	2.405	2.405	(0.500)	34500	40.0000	37.99
11	1,1-Dichloroethene	96	2.326	2.322	(0.483)	36260	20.0000	18.83
12	Isobutyl Alcohol	43	5.284	5.284	(1.098)	129741	400.000	421.04(a)
13	Acetonitrile	39	2.667	2.663	(0.554)	44875	200.000	189.44(a)
14	Allyl Chloride	41	2.667	2.667	(0.554)	113638	20.0000	20.02(a)
15	Iodomethane	142	2.461	2.457	(0.512)	7857	40.0000	40.10
16	Acrylonitrile	53	3.064	3.061	(0.637)	33195	40.0000	40.92
17	Methylene Chloride	84	2.787	2.783	(0.579)	47173	20.0000	20.35
18	Methyl tert-butyl ether	73	3.076	3.076	(0.639)	111071	20.0000	20.56
19	Carbon Disulfide	76	2.513	2.510	(0.522)	196920	40.0000	36.46
20	trans-1,2-Dichloroethene	96	3.053	3.050	(0.635)	40234	20.0000	18.48
21	Vinyl Acetate	43	4.339	4.339	(0.902)	49728	40.0000	38.64

22 1,1-Dichloroethane	63	3.507	3.507 (0.729)	74102	20.0000	17.72
23 Chloroprene	53	3.604	3.601 (0.749)	58943	20.0000	19.22

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052907.D Page 2
Report Date: 07-Jun-2024 10:54

			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
	24	2-Butanone	43	4.264	4.260	(0.886)	45052	40.0000	34.52
	25	Methacrylonitrile	41	4.493	4.489	(0.934)	26774	20.0000	20.40(a)
	26	2,2-Dichloropropane	77	4.178	4.174	(0.868)	50230	20.0000	18.30
	27	cis-1,2-Dichloroethene	96	4.193	4.189	(0.871)	48867	20.0000	18.17
	28	Chloroform	83	4.568	4.568	(0.949)	75736	20.0000	18.13
	29	Bromochloromethane	128	4.466	4.463	(0.928)	25140	20.0000	20.47
$	30	Dibromofluoromethane	113	4.744	4.744	(0.986)	36896	20.0000	19.88
	31	1,1,1-Trichloroethane	97	4.740	4.736	(0.985)	56115	20.0000	19.19
	32	1,1-Dichloropropene	75	4.916	4.916	(0.886)	54919	20.0000	17.79
	33	1,2-Dichloroethane	62	5.175	5.171	(0.932)	61258	20.0000	19.68(M)
	34	Carbon Tetrachloride	117	4.909	4.905	(0.885)	41556	20.0000	17.18(M)
$	35	1,2-Dichloroethane-d4	65	5.096	5.093	(1.059)	44846	20.0000	20.24
*	36	1,4-Difluorobenzene	114	5.550	5.550	(1.000)	426085	50.0000	
	37	Benzene	78	5.134	5.134	(0.925)	179684	20.0000	17.90
	38	Trichloroethene	130	5.786	5.786	(1.043)	45201	20.0000	18.29
	39	Bromodichloromethane	83	6.277	6.277	(1.131)	49558	20.0000	18.36
	40	Methyl Methacrylate	41	5.823	5.827	(1.210)	18720	20.0000	18.96(a)
	41	2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	28955	40.0000	35.85
	42	1,2-Dichloropropane	63	6.007	6.007	(1.082)	46935	20.0000	17.73(M)
	43	2-Nitropropane	43	6.506	6.506	(1.352)	7738	20.0000	17.08(M)
	44	Dibromomethane	93	6.116	6.116	(1.102)	27888	20.0000	18.14
	45	4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	95933	40.0000	38.32
	46	cis-1,3-Dichloropropene	75	6.689	6.690	(1.205)	62650	20.0000	18.44
*	47	Chlorobenzene-d5	117	8.181	8.185	(1.000)	379825	50.0000	
$	48	Toluene-d8	98	6.918	6.918	(0.846)	142140	20.0000	19.74
	49	Ethyl Methacrylate	69	7.289	7.289	(1.313)	58135	20.0000	17.63(a)
	50	Toluene	91	6.978	6.978	(0.853)	182476	20.0000	17.69
	51	trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	49938	20.0000	18.20
	52	2-Hexanone	43	7.589	7.589	(0.928)	58293	40.0000	36.78(M)
	53	1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	36741	20.0000	20.21
	54	1,3-Dichloropropane	76	7.495	7.499	(0.916)	77361	20.0000	18.42
	55	Dibromochloromethane	129	7.690	7.690	(0.940)	39282	20.0000	18.55
	56	Tetrachloroethene	164	7.454	7.454	(0.911)	35021	20.0000	19.44
	57	1,2-Dibromoethane	107	7.784	7.784	(0.951)	42128	20.0000	18.57
	58	1-Chlorohexane	55	8.193	8.196	(1.476)	32677	20.0000	18.32
	59	Chlorobenzene	112	8.208	8.208	(1.003)	118600	20.0000	18.11
	60	1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	40089	20.0000	19.19
	61	Ethylbenzene	106	8.305	8.305	(1.015)	57981	20.0000	19.43
	62	m,p-Xylenes	106	8.406	8.406	(1.027)	153153	40.0000	39.11
	63	o-Xylene	106	8.744	8.744	(1.069)	74682	20.0000	19.51
	64	Styrene	104	8.759	8.759	(1.071)	120302	20.0000	19.13
	66	Bromoform	173	8.916	8.916	(1.090)	22868	20.0000	17.25
	67	Isopropylbenzene	105	9.059	9.059	(1.107)	174459	20.0000	19.24
	68	1,1,2,2-Tetrachloroethane	83	9.325	9.329	(0.917)	61275	20.0000	18.22
$	69	4-Bromofluorobenzene	95	9.190	9.190	(1.123)	52184	20.0000	19.69
*	70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	202258	50.0000	
	71	1,2,3-Trichloropropane	75	9.359	9.362	(0.920)	56598	20.0000	17.95(M)
	72	trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	11099	20.0000	17.10(a)
	73	n-Propylbenzene	91	9.411	9.411	(0.926)	203284	20.0000	18.65
	74	Bromobenzene	156	9.317	9.317	(0.916)	51049	20.0000	18.35
	75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	146220	20.0000	19.84
	76	2-Chlorotoluene	91	9.478	9.482	(0.932)	128707	20.0000	20.27

77 4-Chlorotoluene	91	9.576	9.576 (0.942)	146924	20.0000	18.77
78 tert-Butylbenzene	119	9.835	9.835 (0.967)	121457	20.0000	19.84(M)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	154144	20.0000	19.41
81	sec-Butylbenzene	105	10.022	10.022	(0.986)	163132	20.0000	19.64
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	140705	20.0000	19.44
83	1,3-Dichlorobenzene	146	10.112	10.116	(0.994)	87097	20.0000	18.54(M)
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	93031	20.0000	17.88
86	Benzyl Chloride	91	10.311	10.311	(1.260)	47617	20.0000	16.69
87	n-Butylbenzene	91	10.491	10.491	(1.032)	121510	20.0000	19.14
88	1,2-Dichlorobenzene	146	10.506	10.502	(1.033)	89111	20.0000	18.31(M)
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	6942	20.0000	17.33
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	56836	20.0000	18.53
91	Hexachlorobutadiene	225	11.994	11.998	(1.180)	23031	20.0000	18.72
92	Naphthalene	128	12.065	12.065	(1.187)	140782	20.0000	19.13
93	1,2,3-Trichlorobenzene	180	12.267	12.268	(1.206)	54136	20.0000	18.95
146	Methyl acetate	43	2.712	2.708	(0.564)	45615	20.0000	19.89
138	Freon TF	101	2.330	2.326	(0.484)	30656	20.0000	19.51
141	Cyclohexane	56	4.778	4.778	(0.993)	54972	20.0000	19.46
142	Tetrahydrofuran	42	4.541	4.542	(0.944)	17078	40.0000	40.52
147	Methylcyclohexane	55	5.943	5.944	(1.071)	94734	20.0000	18.74
135	1,4-Dioxane	88	6.165	6.168	(1.281)	12564	400.000	418.30
132	n-Butanol	56	5.823	5.827	(1.210)	25909	400.000	329.35(a)
136	n-Hexane	57	3.334	3.331	(0.693)	36389	20.0000	19.45
139	Diethyl ether	59	2.142	2.139	(0.445)	31782	20.0000	20.77
148	Tert-butyl alcohol	59	2.971	2.975	(0.617)	82537	400.000	410.19
149	Isopropyl alcohol	45	2.566	2.570	(0.533)	63121	400.000	402.56
152	Amyl alcohol	42	7.398	7.398	(0.904)	29249	400.000	369.70
156	Diisopropyl ether	45	3.619	3.619	(0.752)	137423	20.0000	18.43(T)
162	Butyl acrylate	55	8.732	8.733	(1.067)	72944	20.0000	18.93
187	n-Amyl acetate	43	8.927	8.931	(1.091)	75375	20.0000	18.27
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	183560	20.0000	17.69
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	132826	20.0000	19.29
167	Ethanol	45	2.082	2.086	(0.433)	12109	400.000	410.16
172	tert-Butyl formate	59	5.242	5.250	(1.090)	82116	40.0000	35.59
173	3,3-Dimethyl-1-butanol	57	7.780	7.784	(0.951)	93954	400.000	355.38
174	tert-Amyl methyl ether	73	5.284	5.284	(1.098)	126677	20.0000	18.53
175	tert-Butyl ethyl ether	59	4.047	4.047	(0.841)	122465	20.0000	18.33
176	tert-Amyl alcohol	59	5.242	5.250	(1.090)	82116	400.000	351.89
151	4-Methyl-2-pentanol	45	7.214	7.222	(1.300)	254940	400.000	382.44
140	1,3-Butadiene	54	1.400	1.396	(0.291)	21066	20.0000	19.49
182	Epichlorohydrin	57	6.629	6.630	(1.195)	10404	80.0000	73.59
M 94	1,2-Dichloroethylene (total)	96				89101	40.0000	(a)
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	56994	20.0000	19.11
130	Ethyl Acetate	43	4.339	4.339	(0.902)	50101	20.0000	18.62
131	Methyl Acrylate	55	4.369	4.365	(0.908)	52347	20.0000	19.68
189	n-Butyl acetate	43	7.705	7.702	(0.942)	71056	20.0000	17.81
134	Cyclohexanone	55	9.152	9.152	(0.900)	42427	400.000	378.08(a)
185	Isoprene	39	2.150	2.146	(0.447)	8609	20.0000	19.26
188	Isopropyl acetate	43	5.284	5.284	(0.952)	130382	20.0000	18.44
150	Allyl alcohol	57	3.334	3.331	(0.693)	36389	400.000	389.18
194	Acetaldehyde	44	1.456	1.453	(0.303)	37005	80.0000	77.86(M)
195	Methyl Amyl Ketone	43	8.867	8.868	(1.084)	82259	20.0000	17.77
200	Dimethyl Disulfide	94	6.742	6.746	(0.824)	20022	20.0000	14.89
202	Isobutylene	41	1.745	1.734	(0.363)	17507	20.0000	19.58(M)

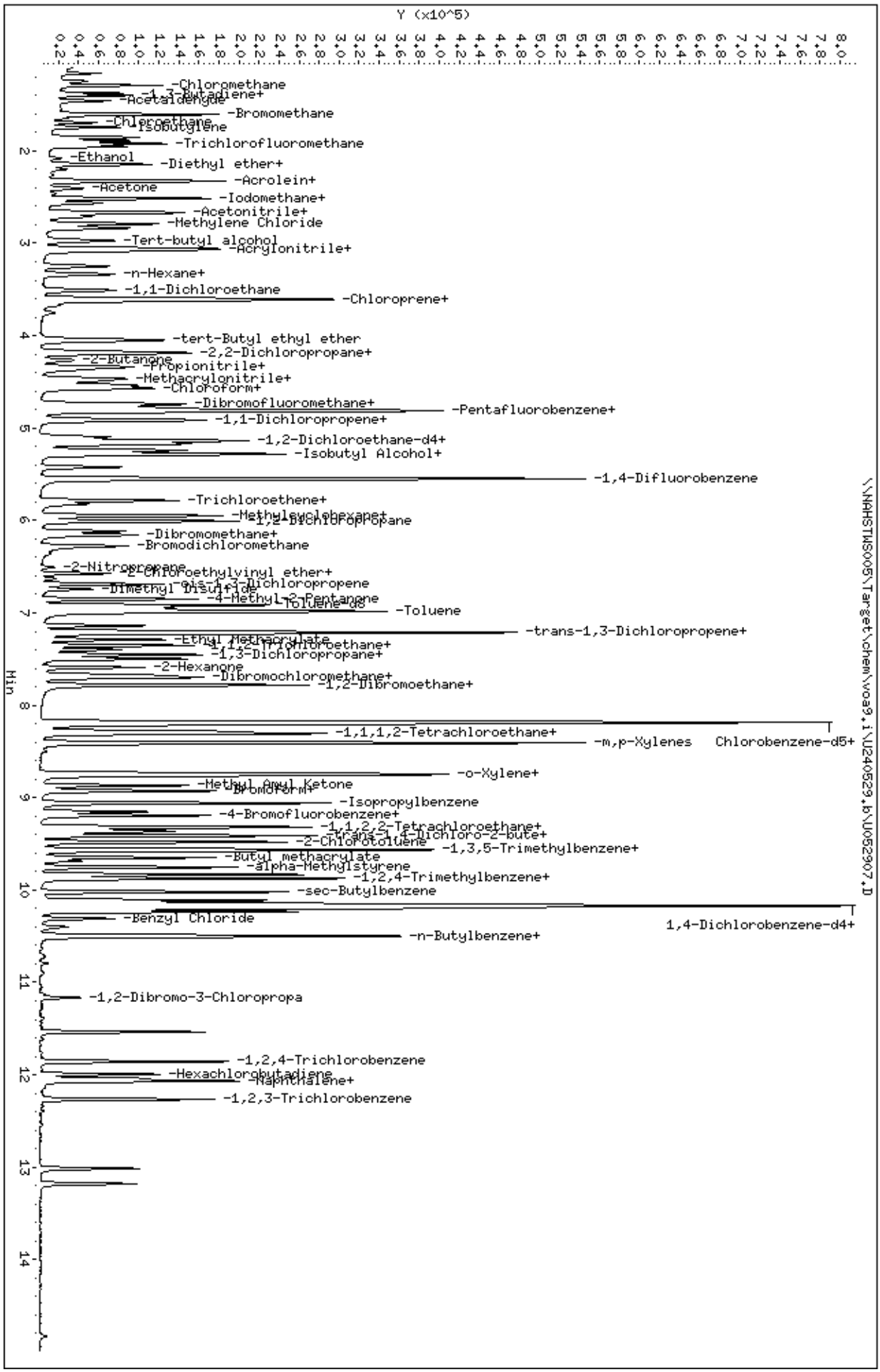
133 Ethyl Acrylate	55	5.943	5.944 (1.235)	94734	20.0000	18.98
163 Butyl methacrylate	41	9.647	9.647 (0.949)	43733	20.0000	18.68(M)

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052907.D Page 4
Report Date: 07-Jun-2024 10:54

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
159 Propylene oxide	43	2.199	2.191	(0.457)	6665	40.0000	39.75
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	37971	20.0000	16.65

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa9,i\U240529,b\U052907,D
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Sample Info: VSTD020;VSTD020;1;6
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Column phase: DB624

Instrument: VOA9,i
Operator: FT
Column diameter: 0.18

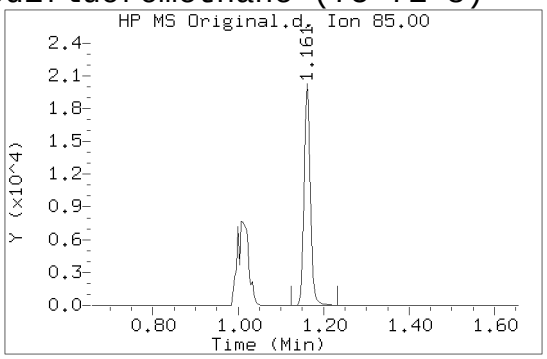
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InstruID : VOA9.i
LabSampID : VSTD020

Dichlorodifluoromethane (75-71-8)

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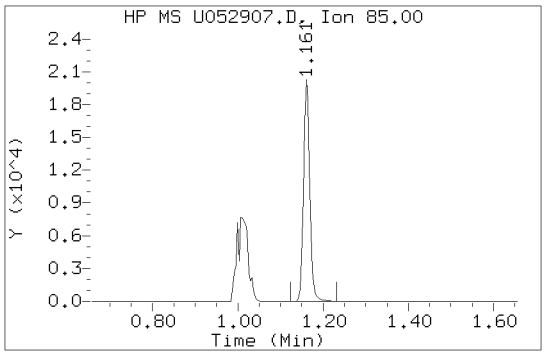
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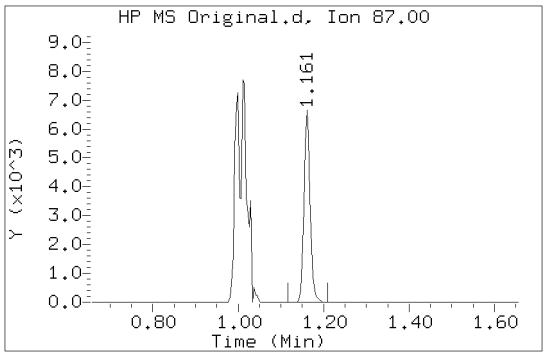
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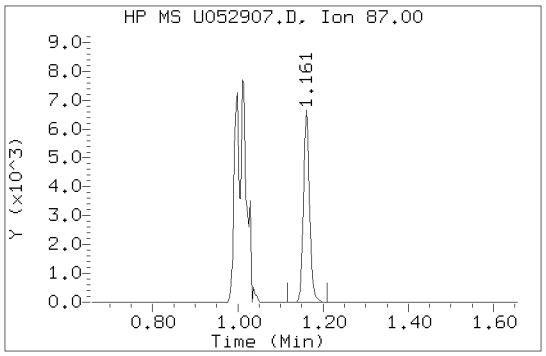
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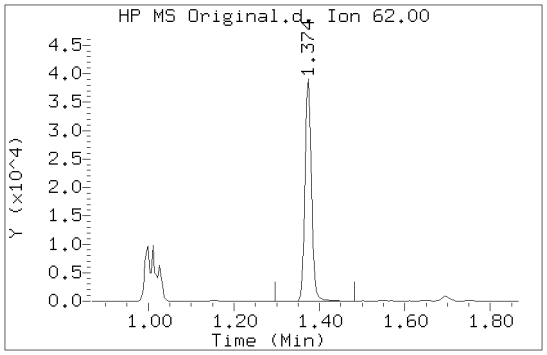


Vinyl Chloride (75-01-4)

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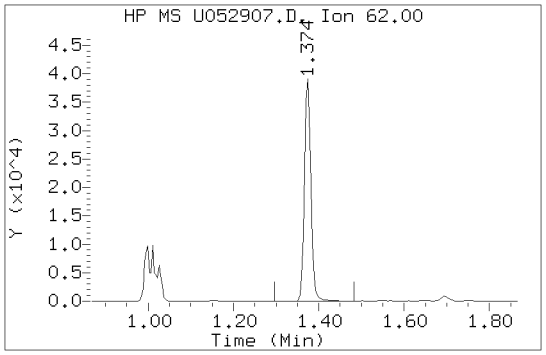
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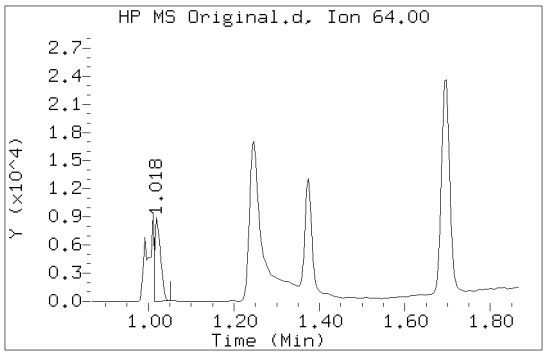
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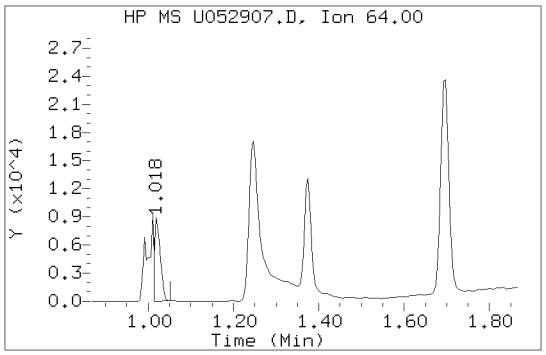
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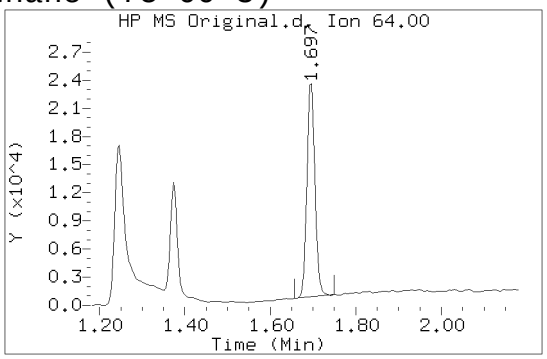


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LabSampID : VSTD020

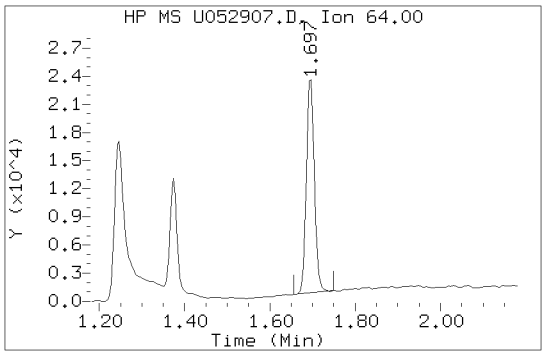
Chloroethane (75-00-3)

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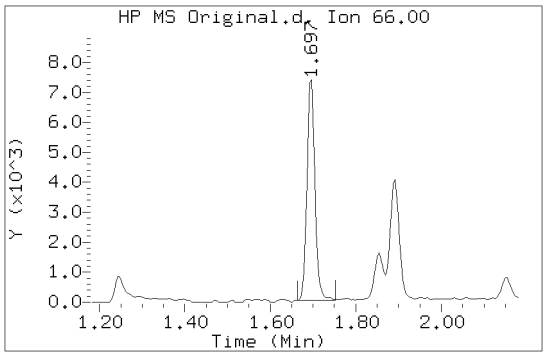
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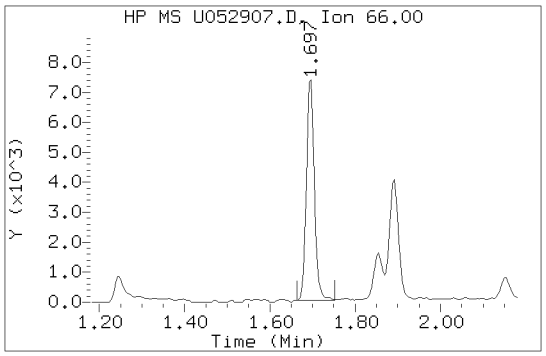
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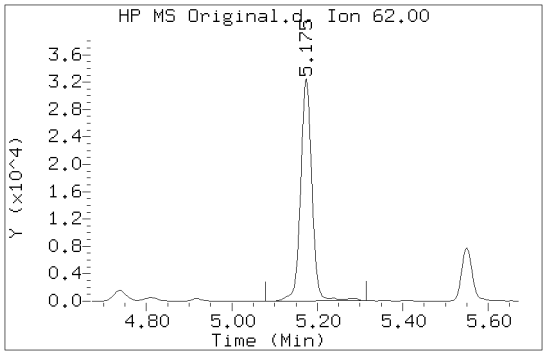
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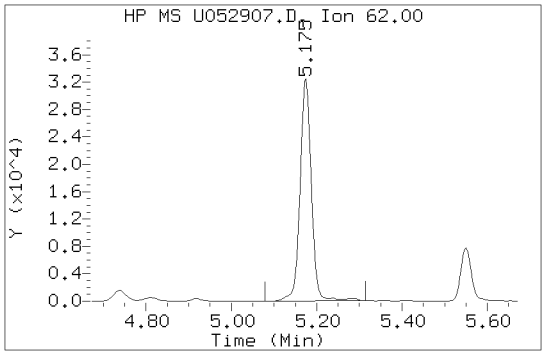
1,2-Dichloroethane (107-06-2)

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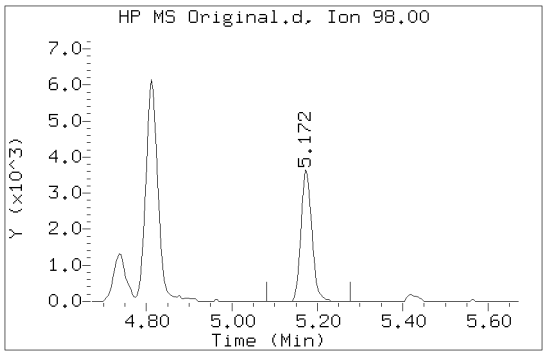
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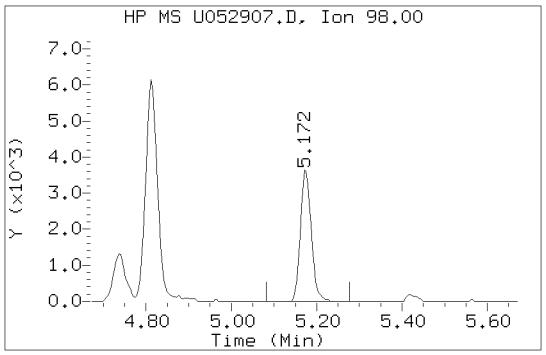
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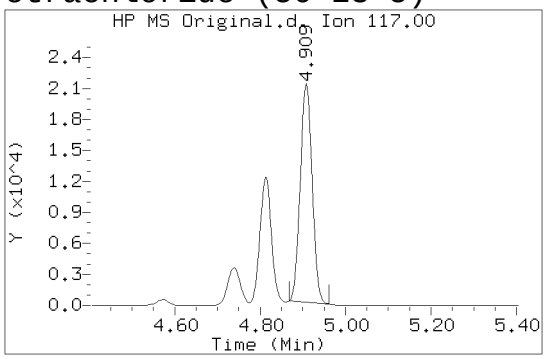


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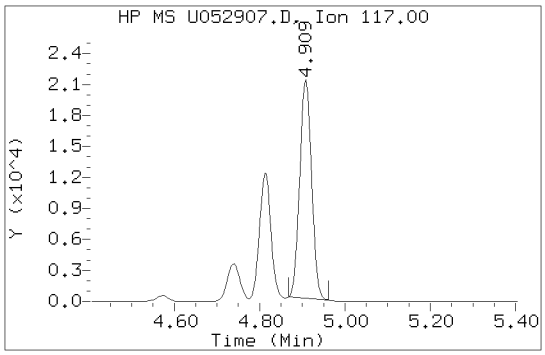
Carbon Tetrachloride (56-23-5)

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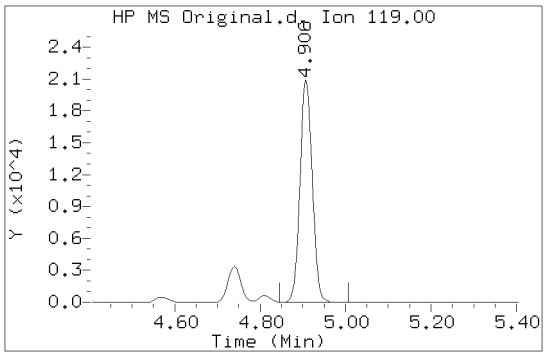
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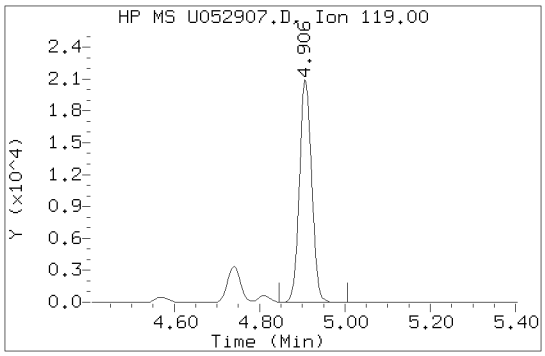
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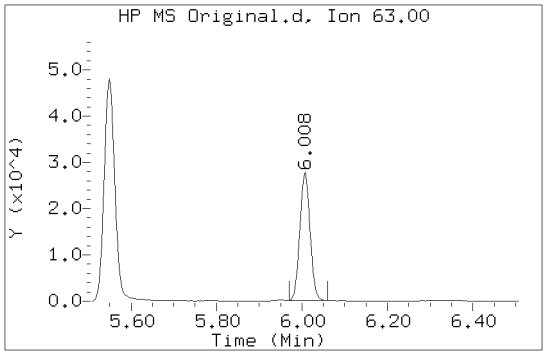
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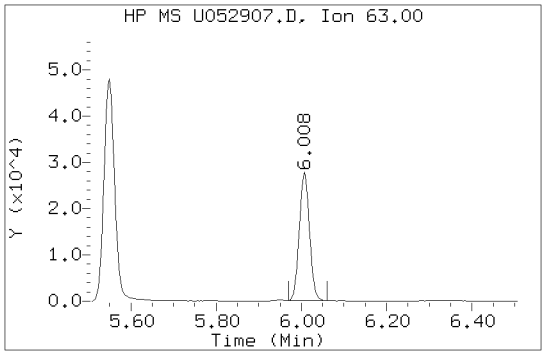
1,2-Dichloropropane (78-87-5)

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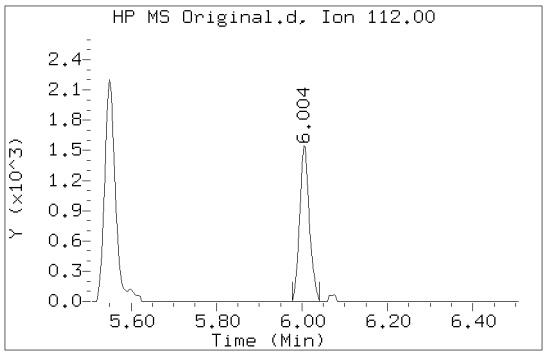
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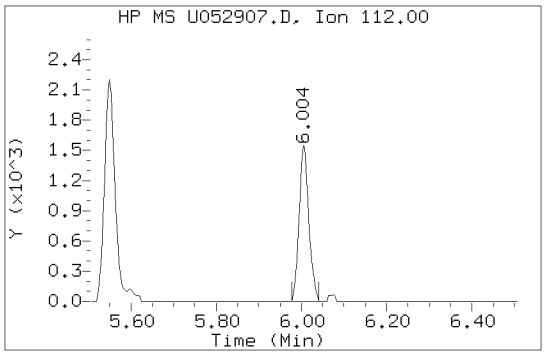
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07-Jun-2024
10:36



BEFORE
MASS
112
AREA
2503
HEIGHT
1549
06-Jun-2024
17:10
s
zaid



AFTER
MASS
112
AREA
2503
HEIGHT
1549
07-Jun-2024
10:36

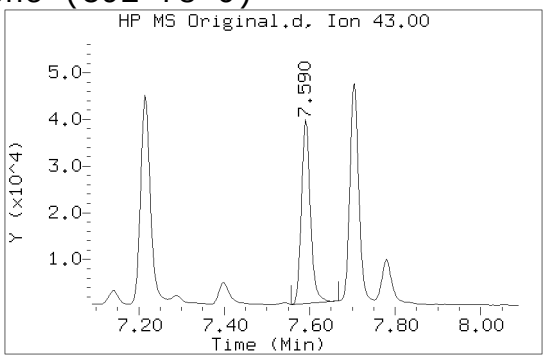


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Inj Date : 29-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD020

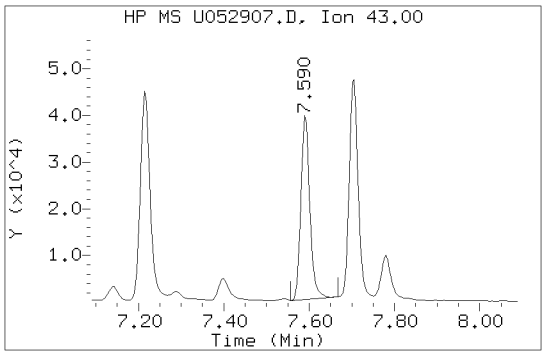
2-Hexanone (591-78-6)

Reason Code:

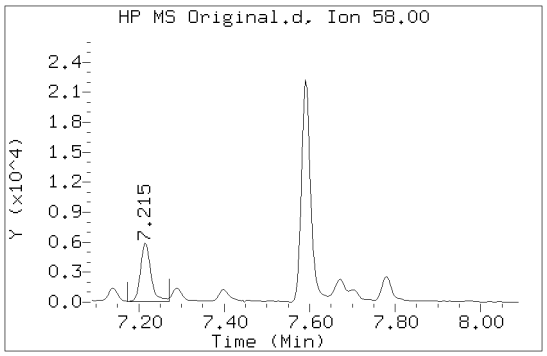
BEFORE
MASS
43
AREA
58293
HEIGHT
39415
06-Jun-2024
17:10
s
zaid



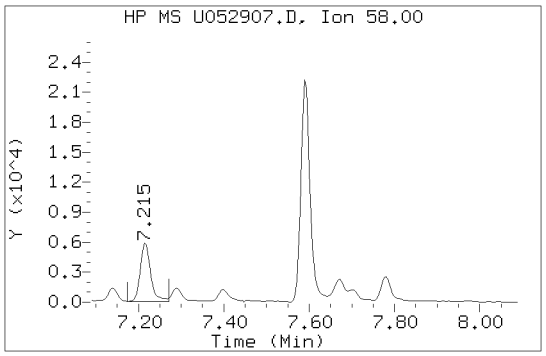
AFTER
MASS
43
AREA
58293
HEIGHT
39415
07-Jun-2024
10:36



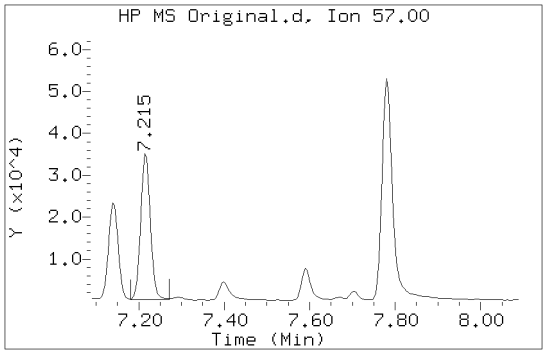
BEFORE
MASS
58
AREA
9838
HEIGHT
5845
06-Jun-2024
17:10
s
zaid



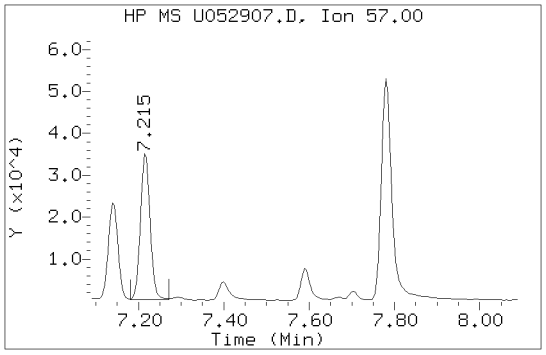
AFTER
MASS
58
AREA
9838
HEIGHT
5845
07-Jun-2024
10:36



BEFORE
MASS
57
AREA
54751
HEIGHT
34893
06-Jun-2024
17:10
s
zaid



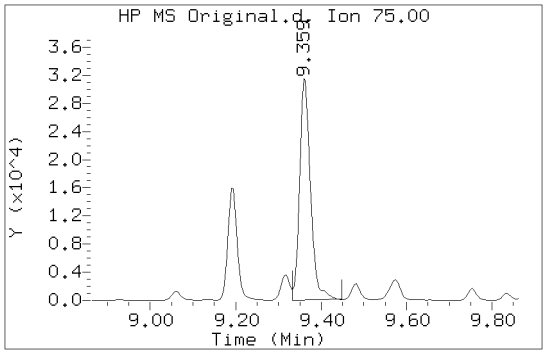
AFTER
MASS
57
AREA
54751
HEIGHT
34893
07-Jun-2024
10:36



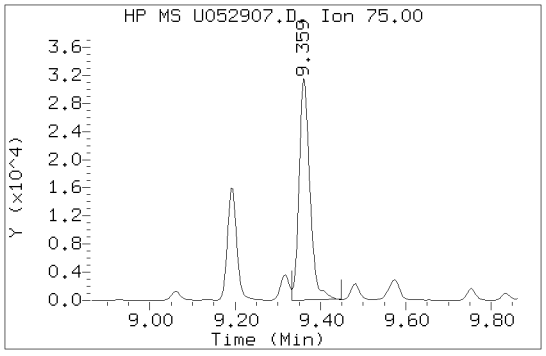
1,2,3-Trichloropropane (96-18-4)

Reason Code:

BEFORE
MASS
75
AREA
56598
HEIGHT
31439
06-Jun-2024
17:10
s
zaid



AFTER
MASS
75
AREA
56598
HEIGHT
31439
07-Jun-2024
10:36



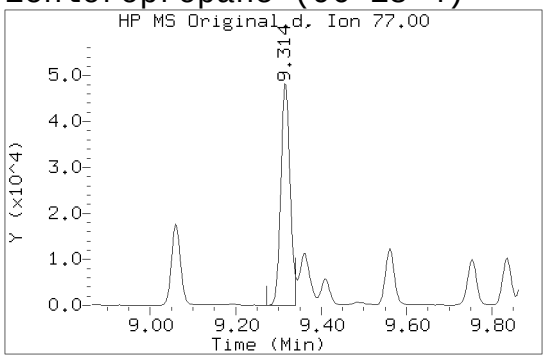
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052907.D
Inj Date : 29-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD020

1,2,3-Trichloropropane (96-18-4)

Reason Code:

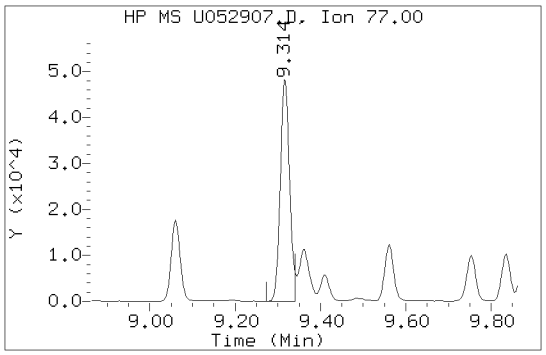
BEFORE

MASS
77
AREA
73236
HEIGHT
48224
06-Jun-2024
17:10
s
zaid



AFTER

MASS
77
AREA
73236
HEIGHT
48224
07-Jun-2024
10:36

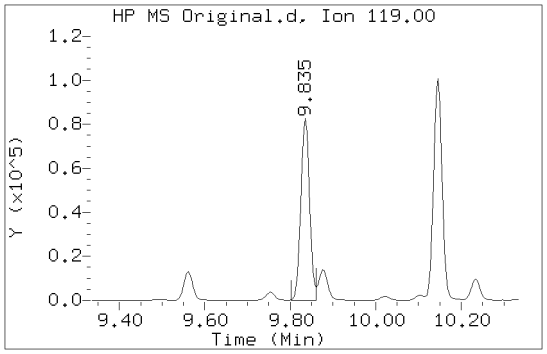


tert-Butylbenzene (98-06-6)

Reason Code:

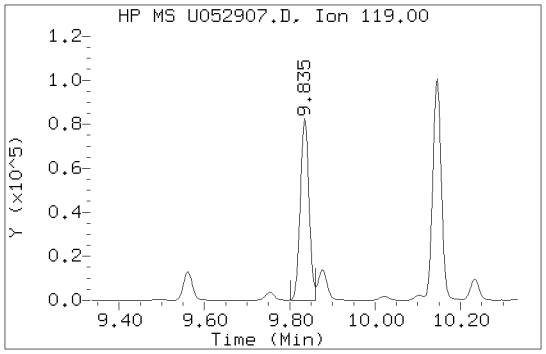
BEFORE

MASS
119
AREA
121457
HEIGHT
82870
06-Jun-2024
17:10
s
zaid



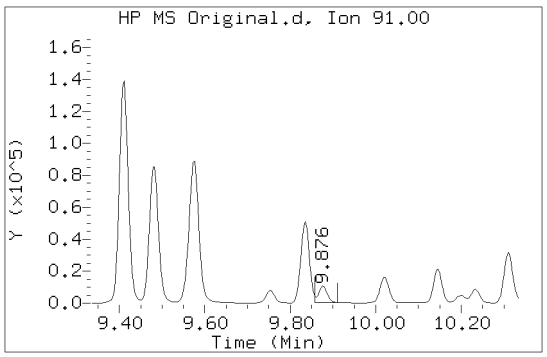
AFTER

MASS
119
AREA
121457
HEIGHT
82870
07-Jun-2024
10:36



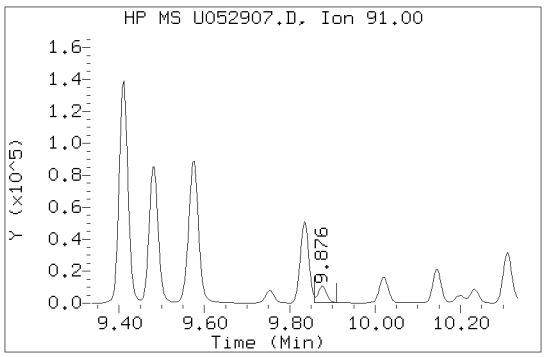
BEFORE

MASS
91
AREA
15283
HEIGHT
10471
06-Jun-2024
17:10
s
zaid



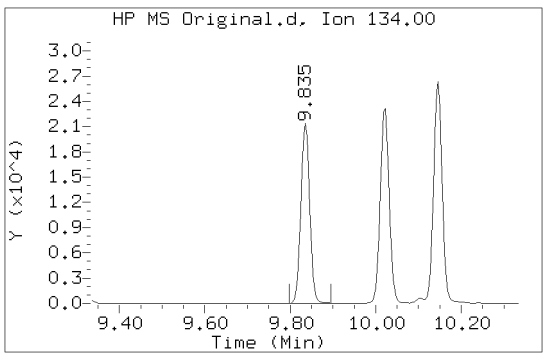
AFTER

MASS
91
AREA
15283
HEIGHT
10471
07-Jun-2024
10:36



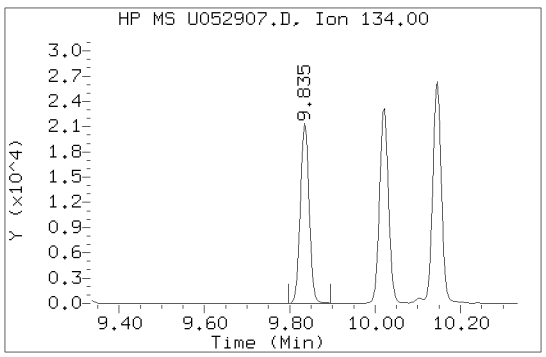
BEFORE

MASS
134
AREA
31454
HEIGHT
21424
06-Jun-2024
17:10
s
zaid



AFTER

MASS
134
AREA
31454
HEIGHT
21424
07-Jun-2024
10:36

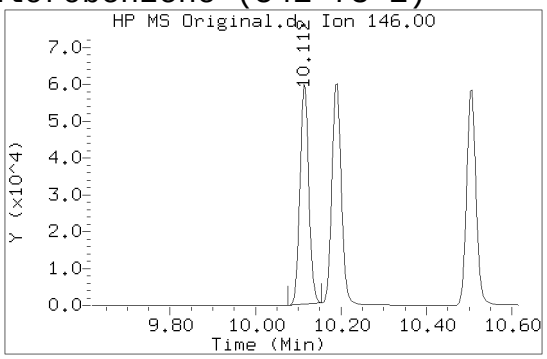


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InstruID : VOA9.i
LabSampID : VSTD020

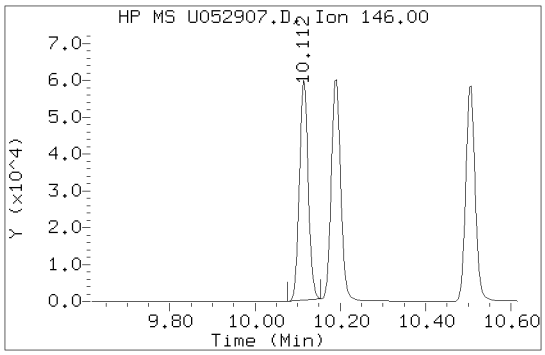
1,3-Dichlorobenzene (541-73-1)

Reason Code:

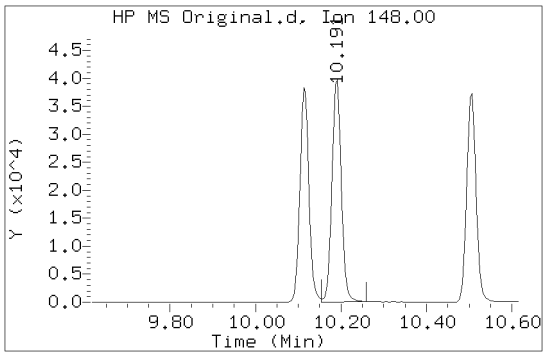
BEFORE
MASS
146
AREA
87097
HEIGHT
59633
06-Jun-2024
17:10
s
zaid



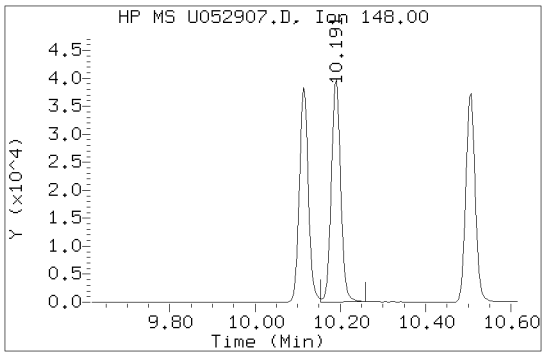
AFTER
MASS
146
AREA
87097
HEIGHT
59633
07-Jun-2024
10:36



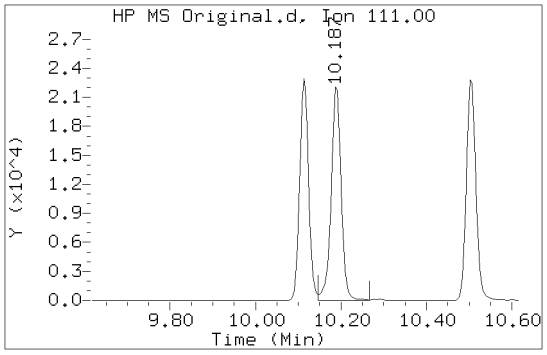
BEFORE
MASS
148
AREA
60382
HEIGHT
39659
06-Jun-2024
17:10
s
zaid



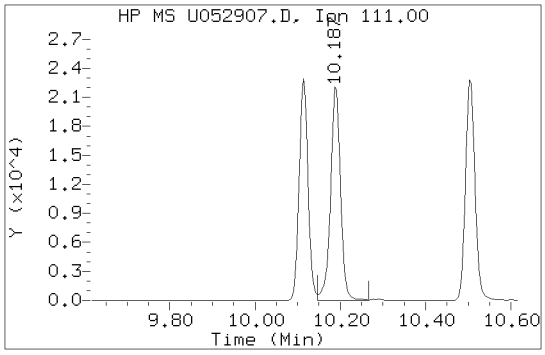
AFTER
MASS
148
AREA
60382
HEIGHT
39659
07-Jun-2024
10:36



BEFORE
MASS
111
AREA
35846
HEIGHT
22056
06-Jun-2024
17:10
s
zaid



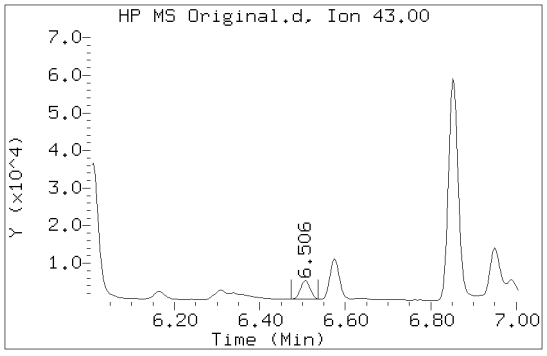
AFTER
MASS
111
AREA
35846
HEIGHT
22056
07-Jun-2024
10:36



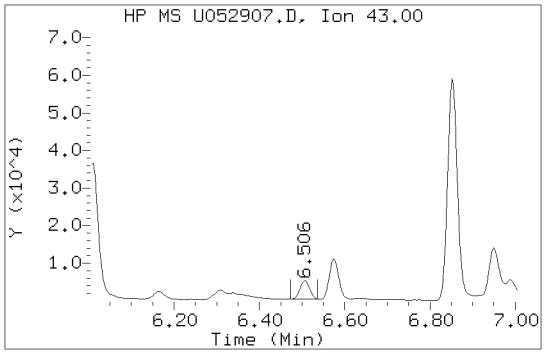
2-Nitropropane (79-46-9)

Reason Code:

BEFORE
MASS
43
AREA
7738
HEIGHT
4969
06-Jun-2024
17:10
s
zaid



AFTER
MASS
43
AREA
7738
HEIGHT
4969
07-Jun-2024
10:36



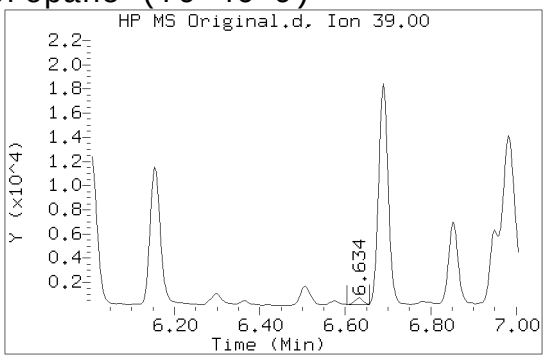
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052907.D
Inj Date : 29-MAY-2024 12:26
InstruID : VOA9.i
LabSampID : VSTD020

2-Nitropropane (79-46-9)

Reason Code:

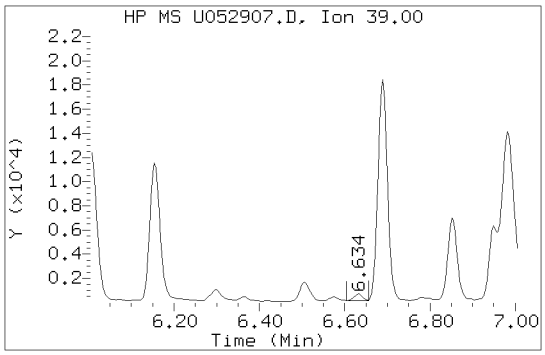
BEFORE

MASS
39
AREA
728
HEIGHT
546
06-Jun-2024
17:10
s
zaid



AFTER

MASS
39
AREA
728
HEIGHT
546
07-Jun-2024
10:36

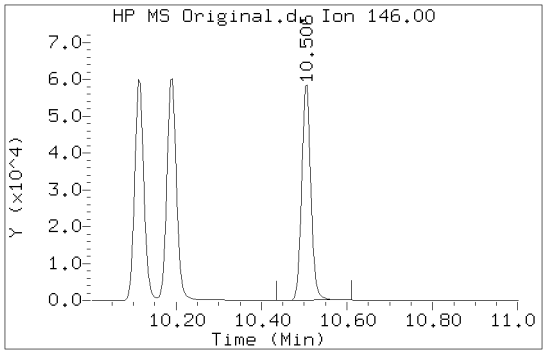


1,2-Dichlorobenzene (95-50-1)

Reason Code:

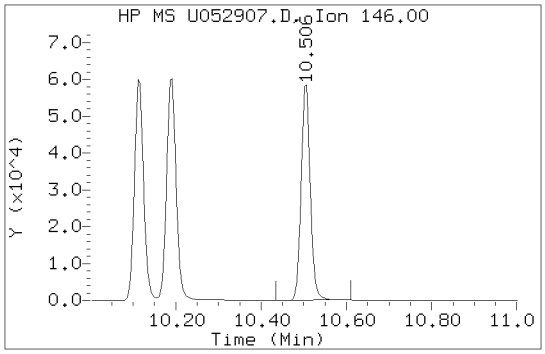
BEFORE

MASS
146
AREA
89111
HEIGHT
58332
06-Jun-2024
17:10
s
zaid



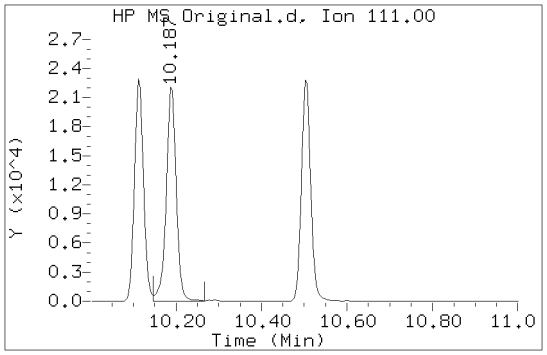
AFTER

MASS
146
AREA
89111
HEIGHT
58332
07-Jun-2024
10:36



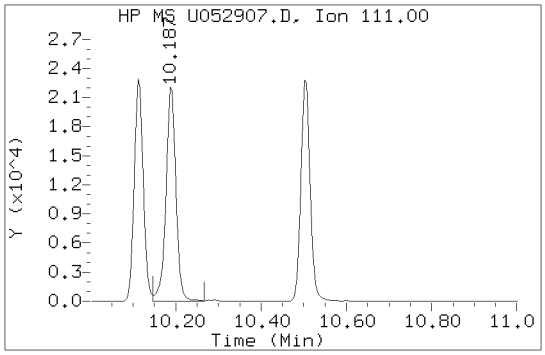
BEFORE

MASS
111
AREA
35846
HEIGHT
22056
06-Jun-2024
17:10
s
zaid



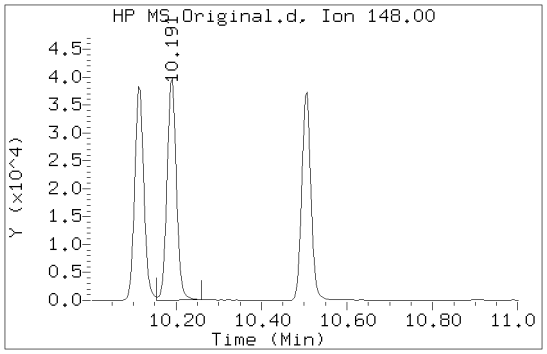
AFTER

MASS
111
AREA
35846
HEIGHT
22056
07-Jun-2024
10:36



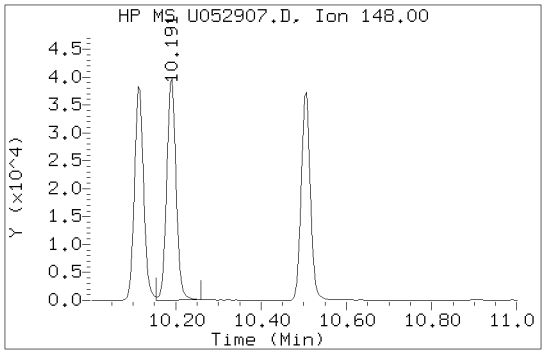
BEFORE

MASS
148
AREA
60382
HEIGHT
39659
06-Jun-2024
17:10
s
zaid



AFTER

MASS
148
AREA
60382
HEIGHT
39659
07-Jun-2024
10:36

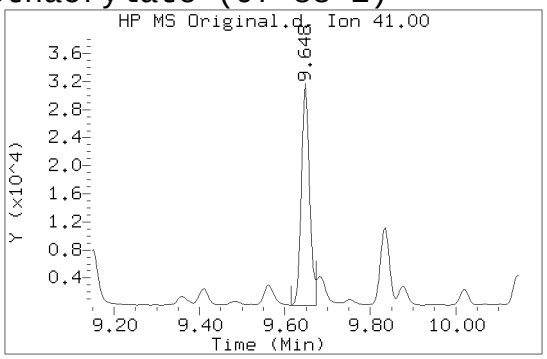


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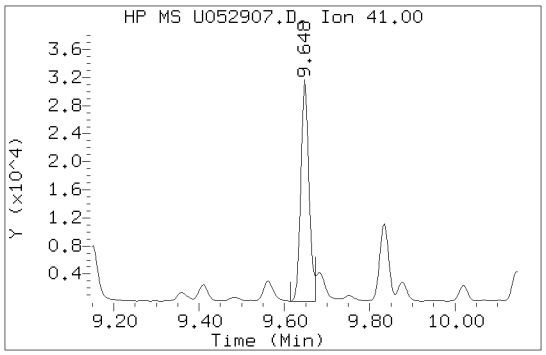
Butyl methacrylate (97-88-1)

Reason Code:

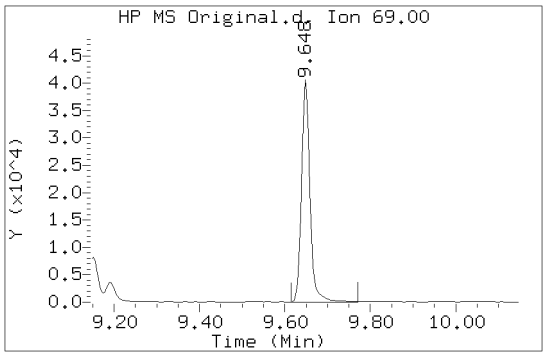
BEFORE
MASS
41
AREA
43733
HEIGHT
31570
06-Jun-2024
17:10
s
zaid



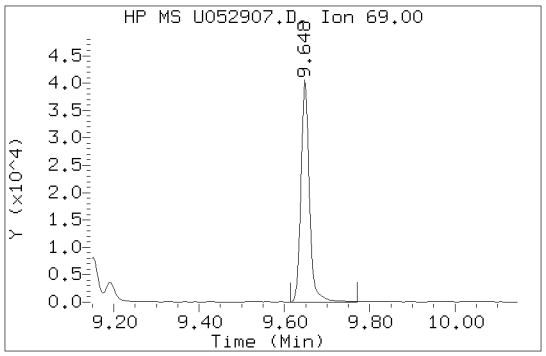
AFTER
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41
AREA
43733
HEIGHT
31570
07-Jun-2024
10:36



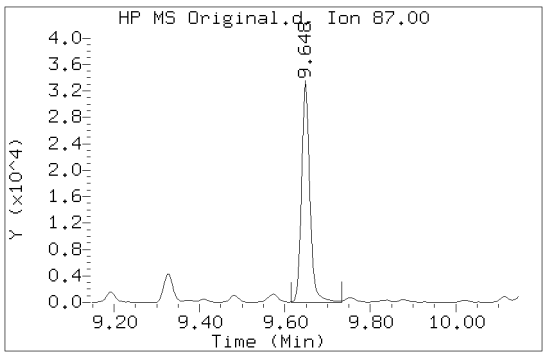
BEFORE
MASS
69
AREA
57826
HEIGHT
40584
06-Jun-2024
17:10
s
zaid



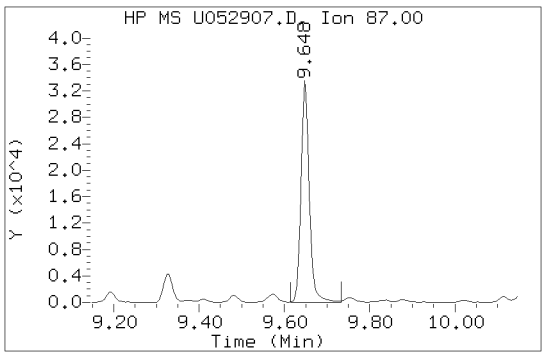
AFTER
MASS
69
AREA
57826
HEIGHT
40584
07-Jun-2024
10:36



BEFORE
MASS
87
AREA
46583
HEIGHT
33536
06-Jun-2024
17:10
s
zaid



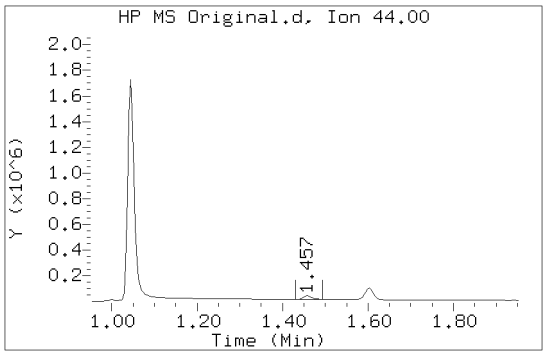
AFTER
MASS
87
AREA
46583
HEIGHT
33536
07-Jun-2024
10:36



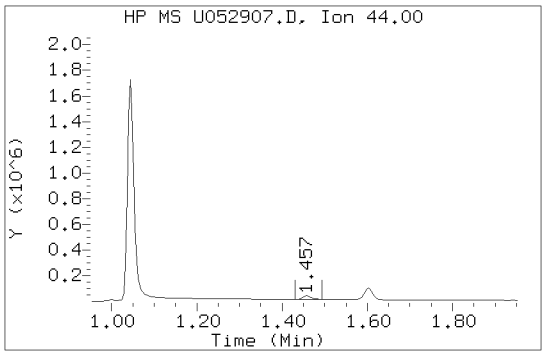
Acetaldehyde (75-07-0)

Reason Code:

BEFORE
MASS
44
AREA
37005
HEIGHT
27626
06-Jun-2024
17:10
s
zaid



AFTER
MASS
44
AREA
37005
HEIGHT
27626
07-Jun-2024
10:36

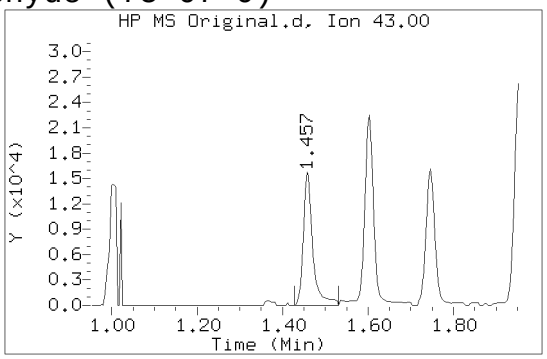


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LabSampID : VSTD020

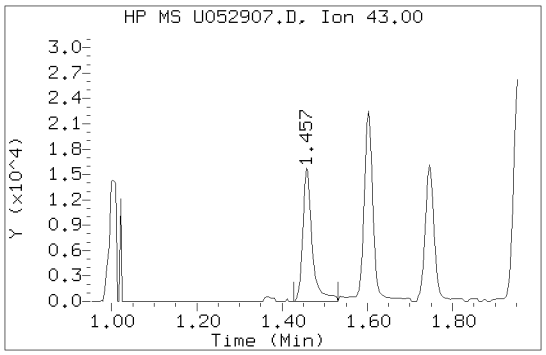
Acetaldehyde (75-07-0)

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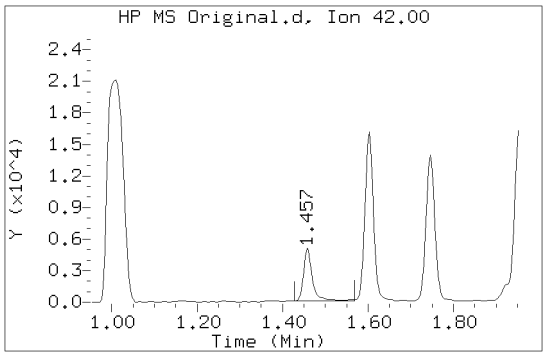
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24828
HEIGHT
15770
06-Jun-2024
17:10
s
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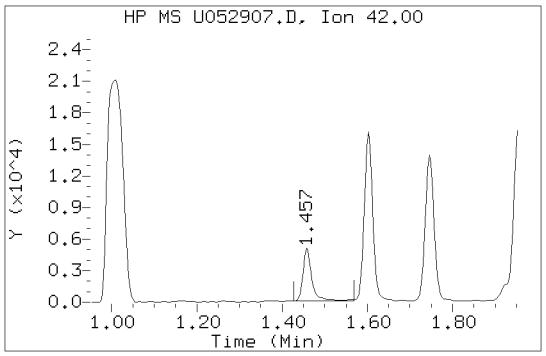
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MASS
43
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BEFORE
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s
zaid



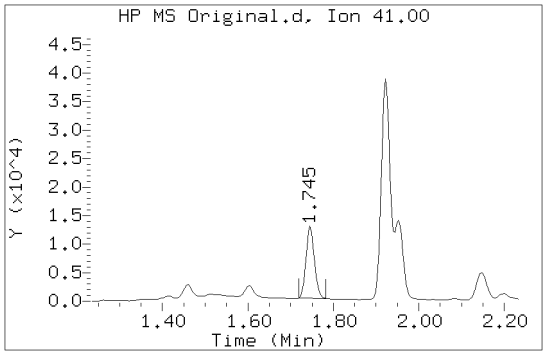
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42
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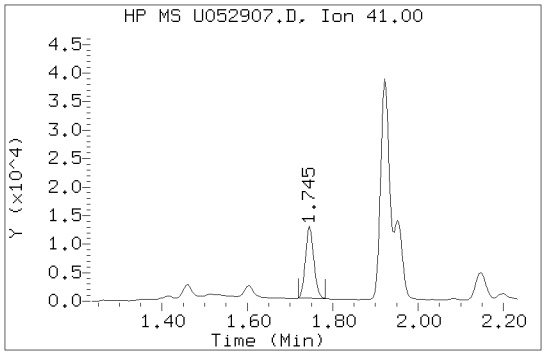
Isobutylene (115-11-7)

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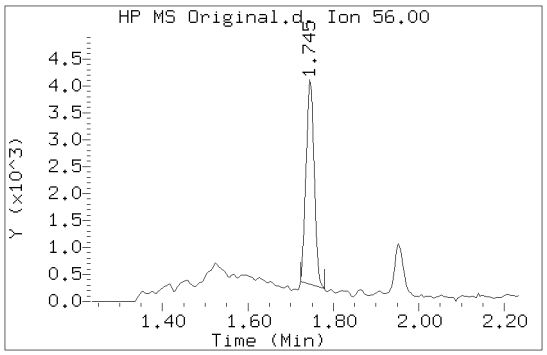
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06-Jun-2024
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s
zaid



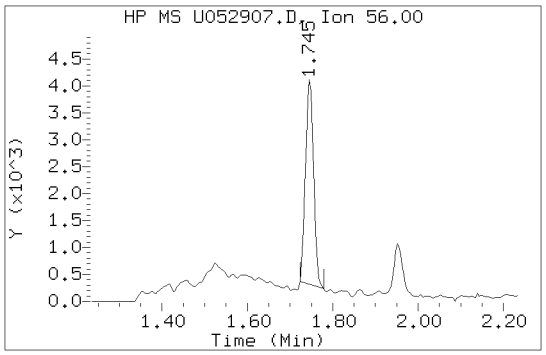
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BEFORE
MASS
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AREA
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HEIGHT
3796
06-Jun-2024
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s
zaid



AFTER
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HEIGHT
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07-Jun-2024
10:36



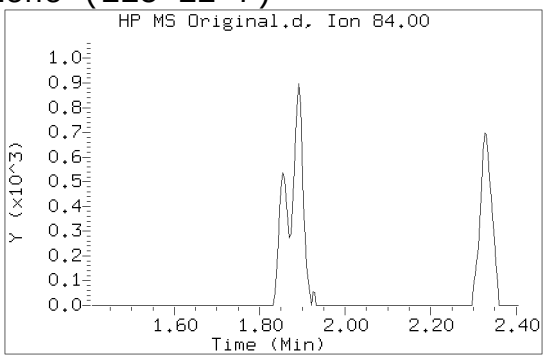
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InstruID : VOA9.i
LabSampID : VSTD020

Isobutylene (115-11-7)

Reason Code:

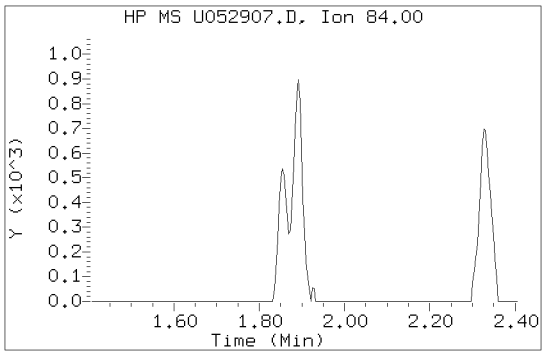
BEFORE

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06-Jun-2024
17:10
s
zaid



AFTER

MASS
84
AREA
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HEIGHT
0
07-Jun-2024
10:36



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052908.D Page 1
Report Date: 07-Jun-2024 10:54

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052908.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 29-MAY-2024 12:48
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD050;VSTD050;1;7
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240529.b\8260C.m
Meth Date : 07-Jun-2024 10:14 r.patel Quant Type: ISTD
Cal Date : 29-MAY-2024 12:48 Cal File: U052908.D
Als bottle: 8 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.808	4.811	(1.000)	288116	50.0000	
2	Dichlorodifluoromethane	85	1.157	1.156	(0.241)	54539	50.0000	50.77(M)
3	Chloromethane	50	1.288	1.288	(0.268)	187210	50.0000	48.70
4	Propionitrile	54	4.332	4.339	(0.901)	161164	500.000	509.59
5	Vinyl Chloride	62	1.367	1.366	(0.284)	103673	50.0000	47.65(M)
6	Bromomethane	94	1.603	1.595	(0.333)	48410	50.0000	50.94
7	Chloroethane	64	1.689	1.681	(0.351)	75481	50.0000	49.59(M)
8	Trichlorofluoromethane	101	1.888	1.884	(0.393)	132049	50.0000	51.10
9	Acrolein	56	2.255	2.259	(0.469)	10580	100.000	104.37
10	Acetone	43	2.401	2.405	(0.499)	82879	100.000	95.59
11	1,1-Dichloroethene	96	2.322	2.322	(0.483)	89402	50.0000	47.07
12	Isobutyl Alcohol	43	5.280	5.284	(1.098)	318836	1000.00	1035.86
13	Acetonitrile	39	2.664	2.663	(0.554)	111325	500.000	476.33
14	Allyl Chloride	41	2.664	2.667	(0.554)	277594	50.0000	49.14
15	Iodomethane	142	2.457	2.457	(0.511)	23240	100.000	99.99
16	Acrylonitrile	53	3.057	3.061	(0.636)	79503	100.000	99.35
17	Methylene Chloride	84	2.784	2.783	(0.579)	111343	50.0000	50.01
18	Methyl tert-butyl ether	73	3.072	3.076	(0.639)	265805	50.0000	49.79
19	Carbon Disulfide	76	2.510	2.510	(0.522)	506931	100.000	95.14
20	trans-1,2-Dichloroethene	96	3.050	3.050	(0.634)	98677	50.0000	45.94
21	Vinyl Acetate	43	4.335	4.339	(0.902)	125689	100.000	98.99

22 1,1-Dichloroethane	63	3.503	3.507 (0.729)	182996	50.0000	44.35
23 Chloroprene	53	3.601	3.601 (0.749)	148738	50.0000	49.16

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052908.D Page 2
Report Date: 07-Jun-2024 10:54

			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
	24	2-Butanone	43	4.260	4.260	(0.886)	117518	100.000	91.27
	25	Methacrylonitrile	41	4.489	4.489	(0.934)	64217	50.0000	48.82(a)
	26	2,2-Dichloropropane	77	4.174	4.174	(0.868)	132525	50.0000	48.93
	27	cis-1,2-Dichloroethene	96	4.189	4.189	(0.871)	120897	50.0000	45.57
	28	Chloroform	83	4.568	4.568	(0.950)	188949	50.0000	45.86
	29	Bromochloromethane	128	4.463	4.463	(0.928)	59781	50.0000	48.97
$	30	Dibromofluoromethane	113	4.744	4.744	(0.987)	91670	50.0000	50.06
	31	1,1,1-Trichloroethane	97	4.737	4.736	(0.985)	145269	50.0000	50.35
	32	1,1-Dichloropropene	75	4.917	4.916	(0.886)	141561	50.0000	47.35
	33	1,2-Dichloroethane	62	5.171	5.171	(0.932)	149897	50.0000	48.82(M)
	34	Carbon Tetrachloride	117	4.905	4.905	(0.884)	115100	50.0000	49.15(M)
$	35	1,2-Dichloroethane-d4	65	5.093	5.093	(1.059)	104957	50.0000	47.42
*	36	1,4-Difluorobenzene	114	5.546	5.550	(1.000)	412722	50.0000	
	37	Benzene	78	5.134	5.134	(0.926)	439845	50.0000	45.24
	38	Trichloroethene	130	5.782	5.786	(1.043)	113966	50.0000	47.63
	39	Bromodichloromethane	83	6.274	6.277	(1.131)	129113	50.0000	49.38
	40	Methyl Methacrylate	41	5.820	5.827	(1.210)	48081	50.0000	47.74
	41	2-Chloroethylvinyl ether	63	6.573	6.573	(1.185)	81655	100.000	95.00
	42	1,2-Dichloropropane	63	6.004	6.007	(1.082)	115748	50.0000	45.14(M)
	43	2-Nitropropane	43	6.506	6.506	(1.353)	22745	50.0000	45.97(M)
	44	Dibromomethane	93	6.116	6.116	(1.103)	69793	50.0000	46.87
	45	4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	249783	100.000	100.20
	46	cis-1,3-Dichloropropene	75	6.686	6.690	(1.205)	171538	50.0000	49.52
*	47	Chlorobenzene-d5	117	8.182	8.185	(1.000)	369629	50.0000	
$	48	Toluene-d8	98	6.918	6.918	(0.846)	337359	50.0000	47.87
	49	Ethyl Methacrylate	69	7.289	7.289	(1.314)	147001	50.0000	46.04
	50	Toluene	91	6.978	6.978	(0.853)	446323	50.0000	44.48
	51	trans-1,3-Dichloropropene	75	7.192	7.196	(1.297)	138911	50.0000	48.98
	52	2-Hexanone	43	7.589	7.589	(0.928)	156001	100.000	96.32(M)
	53	1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	88934	50.0000	50.43
	54	1,3-Dichloropropane	76	7.496	7.499	(0.916)	190952	50.0000	46.72
	55	Dibromochloromethane	129	7.691	7.690	(0.940)	106831	50.0000	49.30
	56	Tetrachloroethene	164	7.454	7.454	(0.911)	86772	50.0000	49.51
	57	1,2-Dibromoethane	107	7.781	7.784	(0.951)	107546	50.0000	48.73
	58	1-Chlorohexane	55	8.193	8.196	(1.477)	80903	50.0000	47.26
	59	Chlorobenzene	112	8.208	8.208	(1.003)	290929	50.0000	45.66
	60	1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	102600	50.0000	50.46
	61	Ethylbenzene	106	8.305	8.305	(1.015)	147348	50.0000	50.00
	62	m,p-Xylenes	106	8.407	8.406	(1.027)	376184	100.000	98.91
	63	o-Xylene	106	8.744	8.744	(1.069)	182488	50.0000	47.79
	64	Styrene	104	8.759	8.759	(1.071)	302716	50.0000	49.47
	66	Bromoform	173	8.916	8.916	(1.090)	68173	50.0000	48.48
	67	Isopropylbenzene	105	9.059	9.059	(1.107)	442871	50.0000	50.19
	68	1,1,2,2-Tetrachloroethane	83	9.325	9.329	(0.917)	151278	50.0000	46.20
$	69	4-Bromofluorobenzene	95	9.190	9.190	(1.123)	124362	50.0000	48.37
*	70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	196973	50.0000	
	71	1,2,3-Trichloropropane	75	9.359	9.362	(0.920)	150016	50.0000	48.86(M)
	72	trans-1,4-Dichloro-2-butene	53	9.374	9.377	(1.146)	30150	50.0000	47.74
	73	n-Propylbenzene	91	9.407	9.411	(0.925)	514942	50.0000	48.51
	74	Bromobenzene	156	9.314	9.317	(0.916)	127975	50.0000	47.24
	75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	361104	50.0000	49.95
	76	2-Chlorotoluene	91	9.479	9.482	(0.932)	315078	50.0000	50.94

77 4-Chlorotoluene	91	9.572	9.576 (0.941)	361262	50.0000	47.40
78 tert-Butylbenzene	119	9.835	9.835 (0.967)	304303	50.0000	51.06(M)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	370379	50.0000	49.86
81	sec-Butylbenzene	105	10.018	10.022	(0.985)	412734	50.0000	51.02
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	361771	50.0000	51.32
83	1,3-Dichlorobenzene	146	10.112	10.116	(0.994)	216427	50.0000	47.31(M)
84	1,4-Dichlorobenzene	146	10.187	10.191	(1.002)	227651	50.0000	44.94
86	Benzyl Chloride	91	10.307	10.311	(1.260)	138884	50.0000	46.29
87	n-Butylbenzene	91	10.491	10.491	(1.032)	312016	50.0000	49.11
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	215967	50.0000	45.57(M)
89	1,2-Dibromo-3-Chloropropane	155	11.166	11.165	(1.098)	20853	50.0000	50.15
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	144427	50.0000	48.36
91	Hexachlorobutadiene	225	11.994	11.998	(1.180)	54931	50.0000	45.84
92	Naphthalene	128	12.065	12.065	(1.187)	365632	50.0000	50.39
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	134331	50.0000	48.29
146	Methyl acetate	43	2.705	2.708	(0.563)	112240	50.0000	49.22
138	Freon TF	101	2.326	2.326	(0.484)	78742	50.0000	49.15
141	Cyclohexane	56	4.778	4.778	(0.994)	132365	50.0000	48.29
142	Tetrahydrofuran	42	4.538	4.542	(0.944)	41576	100.000	100.76
147	Methylcyclohexane	55	5.944	5.944	(1.072)	249751	50.0000	48.93
135	1,4-Dioxane	88	6.165	6.168	(1.282)	28576	1000.00	968.30
132	n-Butanol	56	5.820	5.827	(1.210)	69388	1000.00	894.00
136	n-Hexane	57	3.331	3.331	(0.693)	91764	50.0000	47.84
139	Diethyl ether	59	2.139	2.139	(0.445)	75842	50.0000	50.13
148	Tert-butyl alcohol	59	2.967	2.975	(0.617)	200951	1000.00	1010.10
149	Isopropyl alcohol	45	2.562	2.570	(0.533)	157210	1000.00	1007.63(T)
152	Amyl alcohol	42	7.394	7.398	(0.904)	77196	1000.00	945.68
156	Diisopropyl ether	45	3.616	3.619	(0.752)	329115	50.0000	44.73
162	Butyl acrylate	55	8.729	8.733	(1.067)	186832	50.0000	47.10
187	n-Amyl acetate	43	8.928	8.931	(1.091)	188918	50.0000	47.07
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	468567	50.0000	46.38
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	333316	50.0000	48.55
167	Ethanol	45	2.079	2.086	(0.432)	29366	1000.00	1003.32
172	tert-Butyl formate	59	5.239	5.250	(1.090)	209892	100.000	92.22
173	3,3-Dimethyl-1-butanol	57	7.781	7.784	(0.951)	235172	1000.00	914.09
174	tert-Amyl methyl ether	73	5.284	5.284	(1.099)	299172	50.0000	44.37
175	tert-Butyl ethyl ether	59	4.043	4.047	(0.841)	297796	50.0000	45.19
176	tert-Amyl alcohol	59	5.239	5.250	(1.090)	209892	1000.00	911.64
151	4-Methyl-2-pentanol	45	7.214	7.222	(1.301)	647574	1000.00	956.22
140	1,3-Butadiene	54	1.396	1.396	(0.291)	51777	50.0000	48.57
182	Epichlorohydrin	57	6.626	6.630	(1.195)	29367	200.000	202.87
M 94	1,2-Dichloroethylene (total)	96				219574	100.000	(a)
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	150603	50.0000	49.86
130	Ethyl Acetate	43	4.335	4.339	(0.902)	125689	50.0000	47.36
131	Methyl Acrylate	55	4.362	4.365	(0.907)	131096	50.0000	49.31
189	n-Butyl acetate	43	7.702	7.702	(0.941)	184225	50.0000	47.47
134	Cyclohexanone	55	9.149	9.152	(0.900)	104997	1000.00	937.01
185	Isoprene	39	2.146	2.146	(0.446)	22038	50.0000	48.06
188	Isopropyl acetate	43	5.280	5.284	(0.952)	315895	50.0000	46.12
150	Allyl alcohol	57	3.331	3.331	(0.693)	91764	1000.00	956.87
194	Acetaldehyde	44	1.453	1.453	(0.302)	97166	200.000	203.55(M)
195	Methyl Amyl Ketone	43	8.864	8.868	(1.083)	206617	50.0000	45.88
200	Dimethyl Disulfide	94	6.742	6.746	(0.824)	68045	50.0000	38.47
202	Isobutylene	41	1.741	1.734	(0.362)	43949	50.0000	49.62(M)

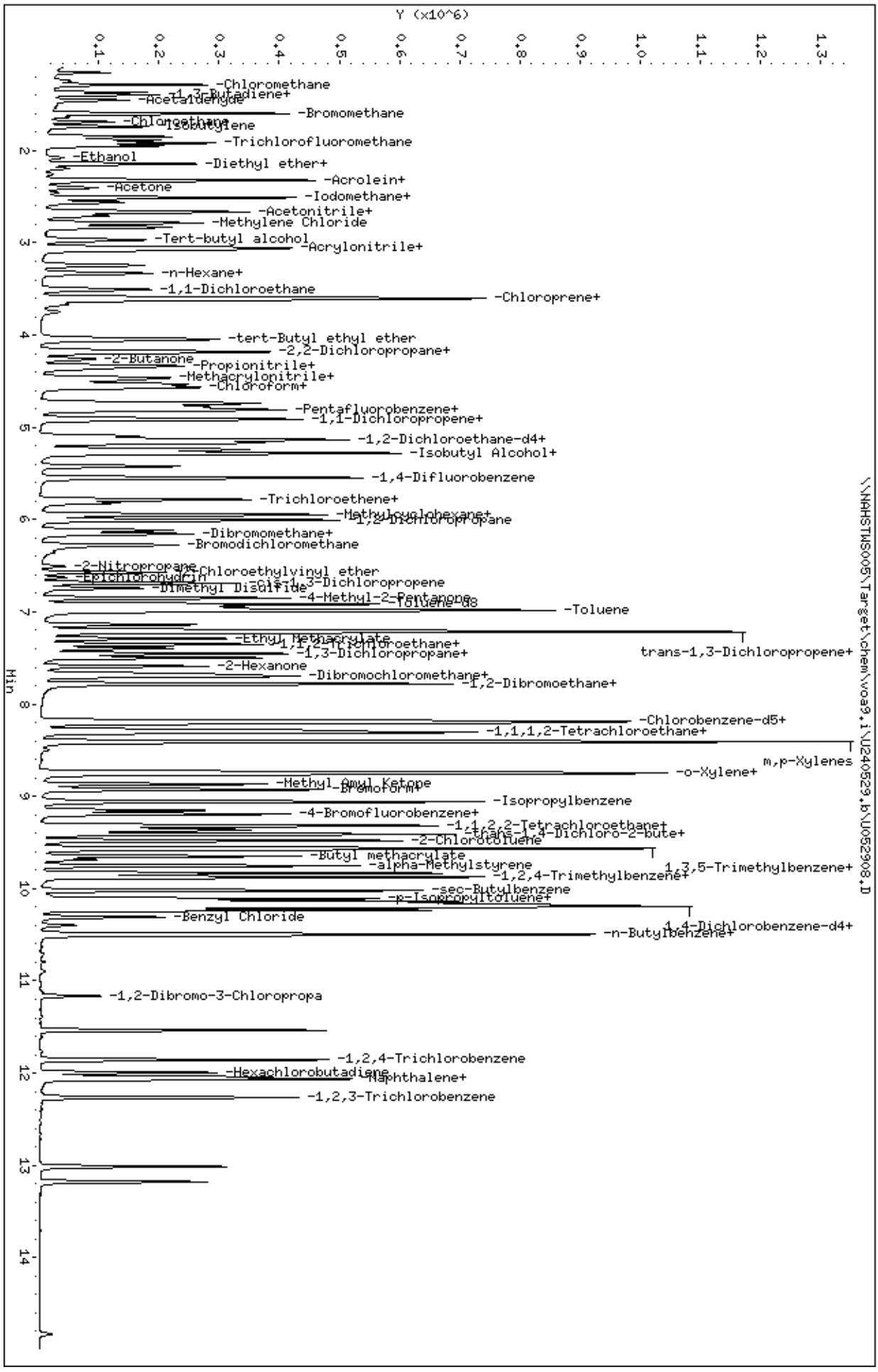
133 Ethyl Acrylate	55	5.944	5.944 (1.236)	249751	50.0000	48.82
163 Butyl methacrylate	41	9.647	9.647 (0.949)	104298	50.0000	45.76

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052908.D Page 4
Report Date: 07-Jun-2024 10:54

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
159 Propylene oxide	43	2.191	2.191	(0.456)	16421	100.000	99.42
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	121736	50.0000	49.55

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052908.D
Date : 29-MAY-2024 12:48
Client ID: VSTD050
Sample Info: VSTD050;VSTD050;1;7
Purge Volume: 5.0
Column phase: DB624

\\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052908.D

Instrument: VOA9.i
Operator: FT
Column diameter: 0.18

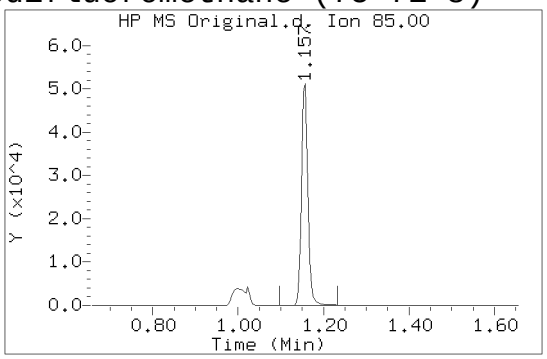
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Inj Date : 29-MAY-2024 12:48
InstruID : VOA9.i
LabSampID : VSTD050

Dichlorodifluoromethane (75-71-8)

Reason Code:

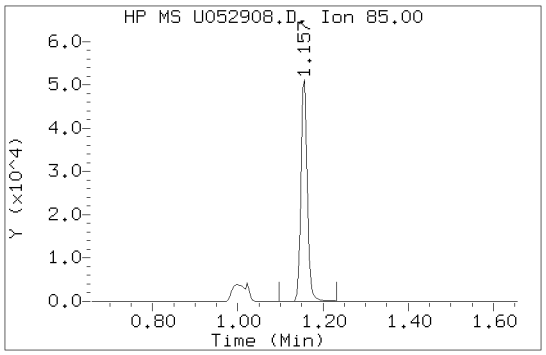
BEFORE

MASS
85
AREA
54539
HEIGHT
51184
06-Jun-2024
17:16
s
zaid



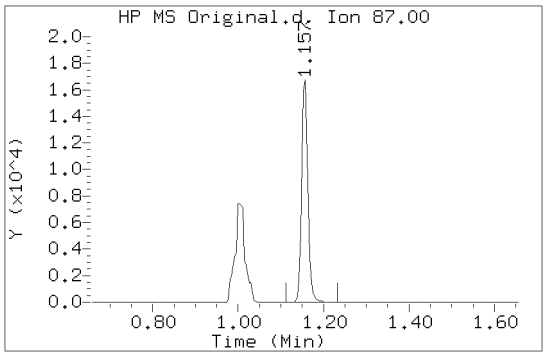
AFTER

MASS
85
AREA
54539
HEIGHT
51184
07-Jun-2024
10:36



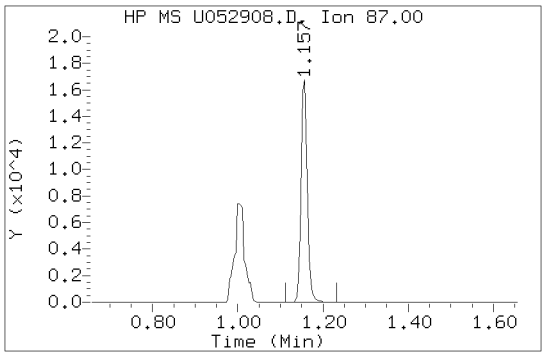
BEFORE

MASS
87
AREA
17424
HEIGHT
16744
06-Jun-2024
17:16
s
zaid



AFTER

MASS
87
AREA
17424
HEIGHT
16744
07-Jun-2024
10:36

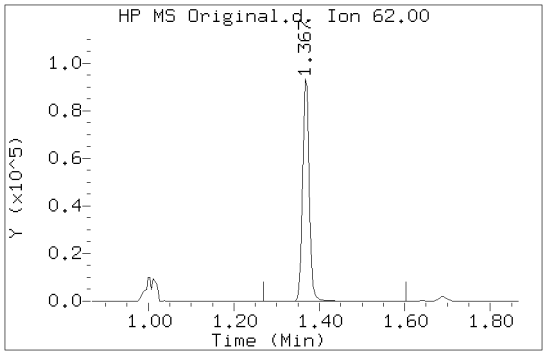


Vinyl Chloride (75-01-4)

Reason Code:

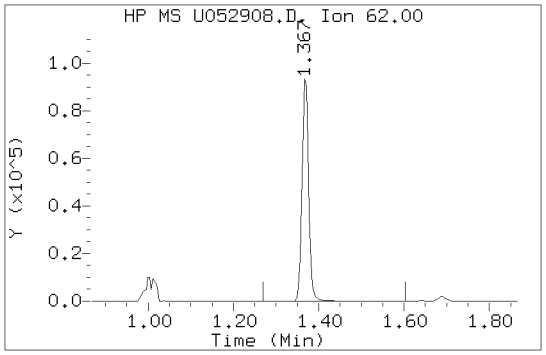
BEFORE

MASS
62
AREA
103673
HEIGHT
93360
06-Jun-2024
17:16
s
zaid



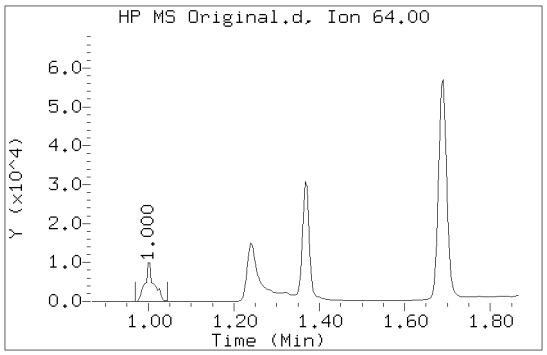
AFTER

MASS
62
AREA
103673
HEIGHT
93360
07-Jun-2024
10:36



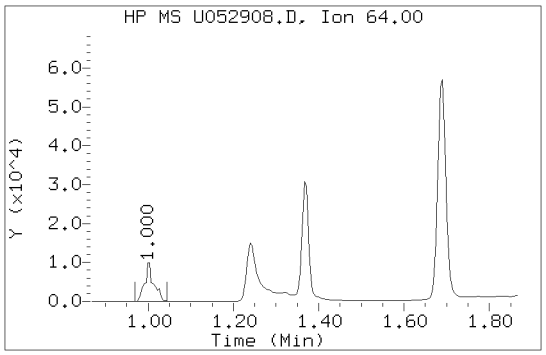
BEFORE

MASS
64
AREA
14377
HEIGHT
9930
06-Jun-2024
17:16
s
zaid



AFTER

MASS
64
AREA
14377
HEIGHT
9930
07-Jun-2024
10:36



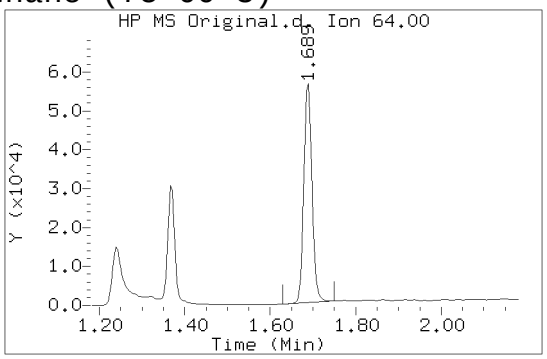
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Inj Date : 29-MAY-2024 12:48
InstruID : VOA9.i
LabSampID : VSTD050

Chloroethane (75-00-3)

Reason Code:

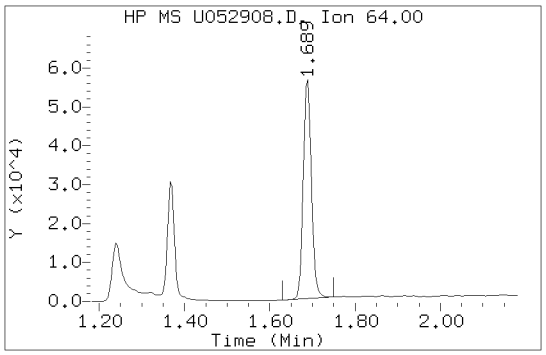
BEFORE

MASS
64
AREA
75481
HEIGHT
56270
06-Jun-2024
17:16
s
zaid



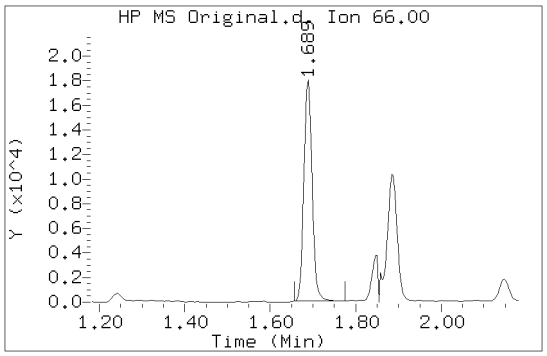
AFTER

MASS
64
AREA
75481
HEIGHT
56270
07-Jun-2024
10:36



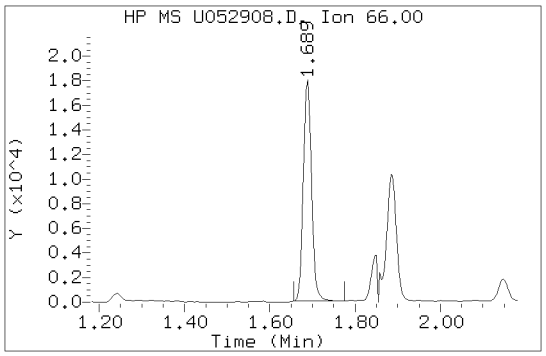
BEFORE

MASS
66
AREA
24481
HEIGHT
17983
06-Jun-2024
17:16
s
zaid



AFTER

MASS
66
AREA
24481
HEIGHT
17983
07-Jun-2024
10:36

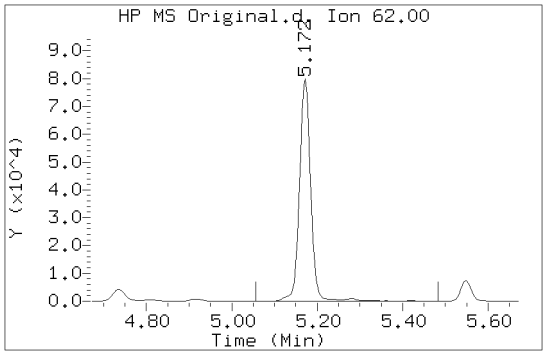


1,2-Dichloroethane (107-06-2)

Reason Code:

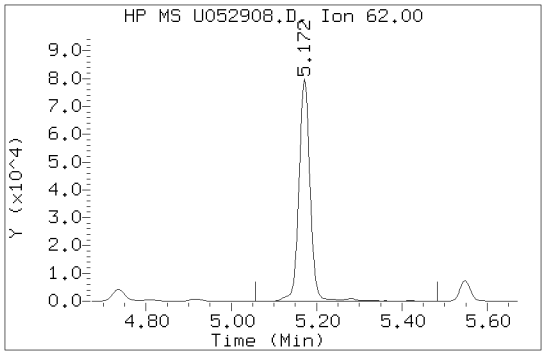
BEFORE

MASS
62
AREA
149897
HEIGHT
79880
06-Jun-2024
17:16
s
zaid



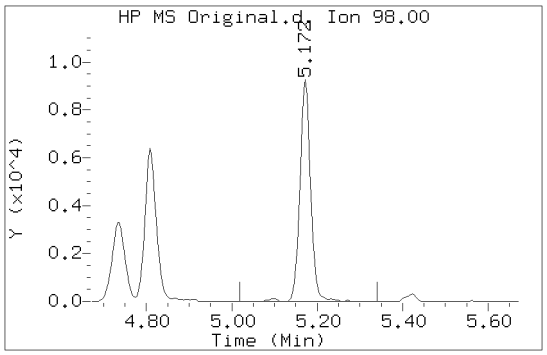
AFTER

MASS
62
AREA
149897
HEIGHT
79880
07-Jun-2024
10:36



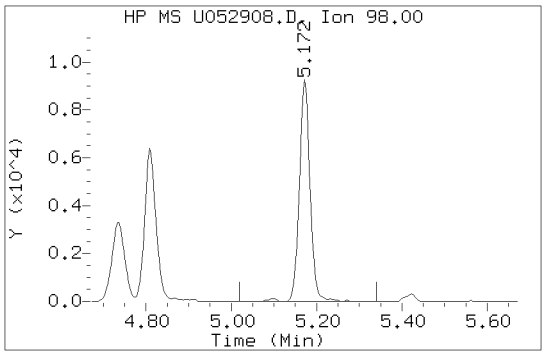
BEFORE

MASS
98
AREA
16480
HEIGHT
9263
06-Jun-2024
17:16
s
zaid



AFTER

MASS
98
AREA
16480
HEIGHT
9263
07-Jun-2024
10:36

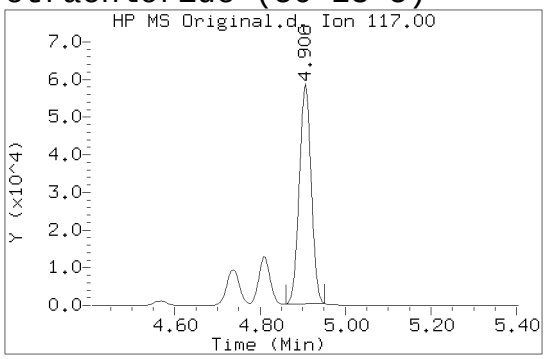


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InstruID : VOA9.i
LabSampID : VSTD050

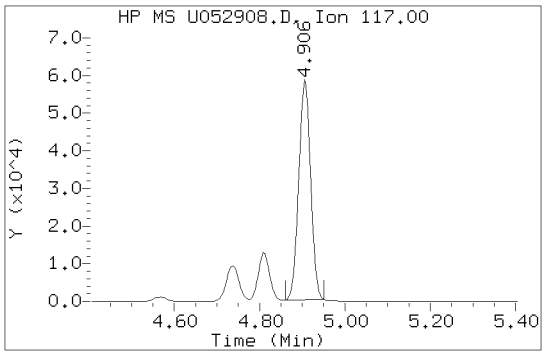
Carbon Tetrachloride (56-23-5)

Reason Code:

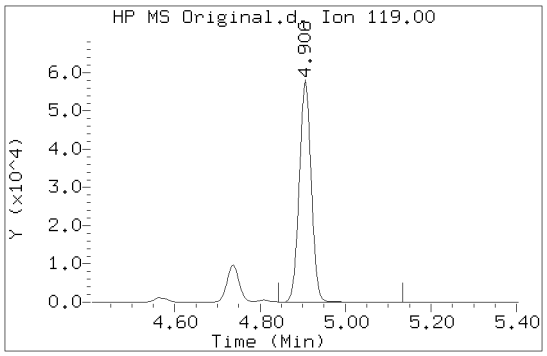
BEFORE
MASS
117
AREA
115100
HEIGHT
58464
06-Jun-2024
17:16
s
zaid



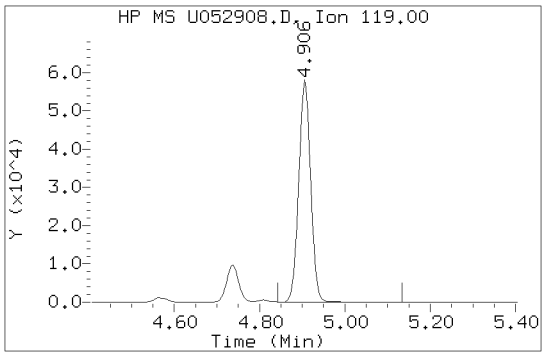
AFTER
MASS
117
AREA
115100
HEIGHT
58464
07-Jun-2024
10:36



BEFORE
MASS
119
AREA
115025
HEIGHT
58120
06-Jun-2024
17:16
s
zaid



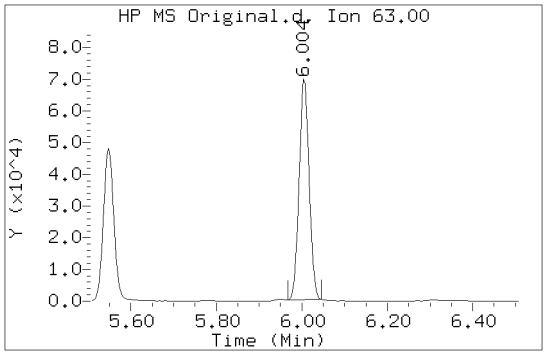
AFTER
MASS
119
AREA
115025
HEIGHT
58120
07-Jun-2024
10:36



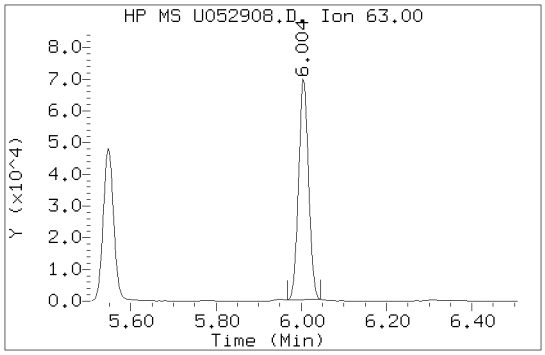
1,2-Dichloropropane (78-87-5)

Reason Code:

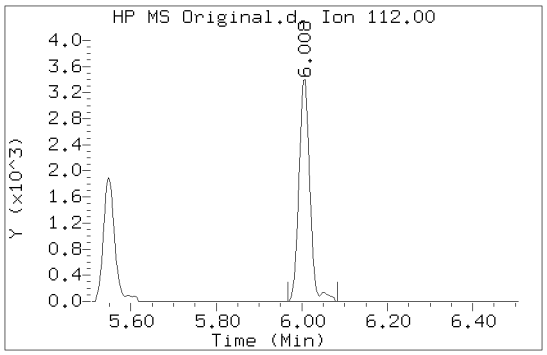
BEFORE
MASS
63
AREA
115748
HEIGHT
69658
06-Jun-2024
17:16
s
zaid



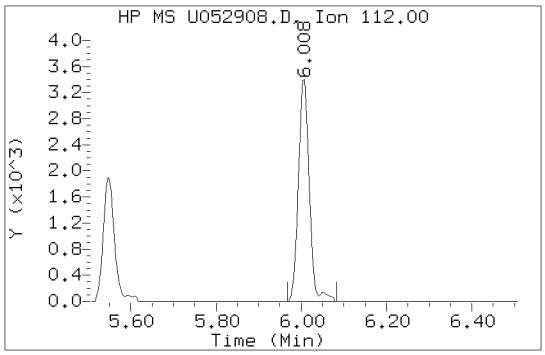
AFTER
MASS
63
AREA
115748
HEIGHT
69658
07-Jun-2024
10:36



BEFORE
MASS
112
AREA
6188
HEIGHT
3398
06-Jun-2024
17:16
s
zaid



AFTER
MASS
112
AREA
6188
HEIGHT
3398
07-Jun-2024
10:36

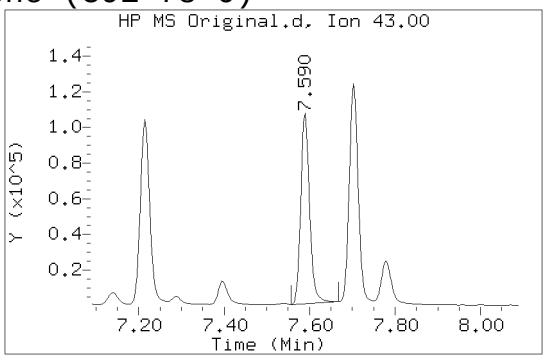


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Inj Date : 29-MAY-2024 12:48
InstruID : VOA9.i
LabSampID : VSTD050

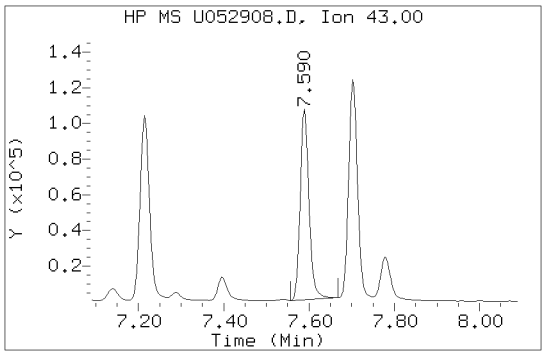
2-Hexanone (591-78-6)

Reason Code:

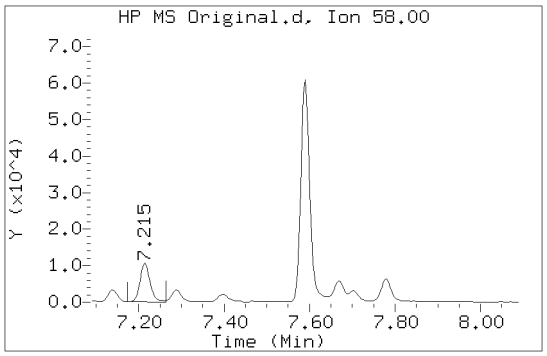
BEFORE
MASS
43
AREA
156001
HEIGHT
106896
06-Jun-2024
17:16
s
zaid



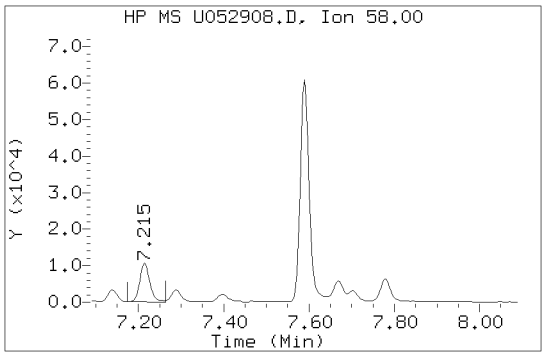
AFTER
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43
AREA
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HEIGHT
106896
07-Jun-2024
10:36



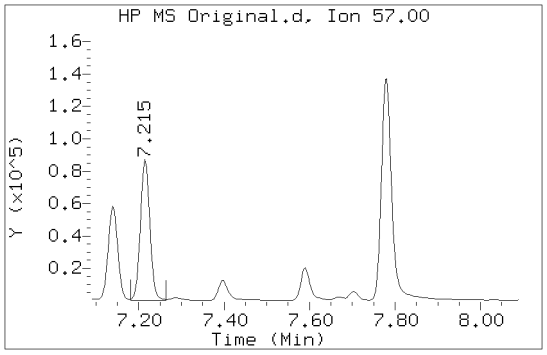
BEFORE
MASS
58
AREA
17346
HEIGHT
10624
06-Jun-2024
17:16
s
zaid



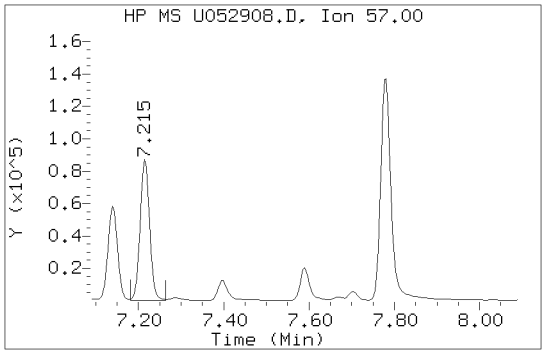
AFTER
MASS
58
AREA
17346
HEIGHT
10624
07-Jun-2024
10:36



BEFORE
MASS
57
AREA
133877
HEIGHT
87137
06-Jun-2024
17:16
s
zaid



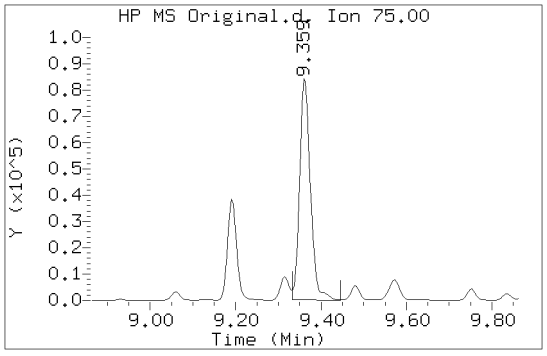
AFTER
MASS
57
AREA
133877
HEIGHT
87137
07-Jun-2024
10:36



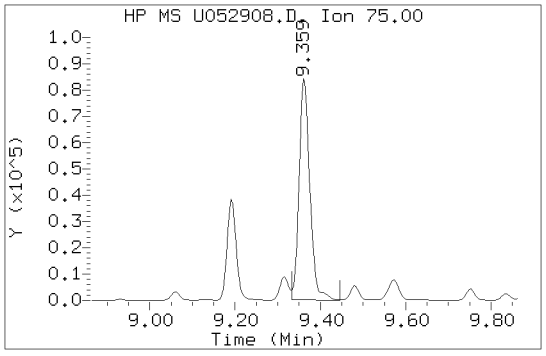
1,2,3-Trichloropropane (96-18-4)

Reason Code:

BEFORE
MASS
75
AREA
150016
HEIGHT
84176
06-Jun-2024
17:16
s
zaid



AFTER
MASS
75
AREA
150016
HEIGHT
84176
07-Jun-2024
10:36

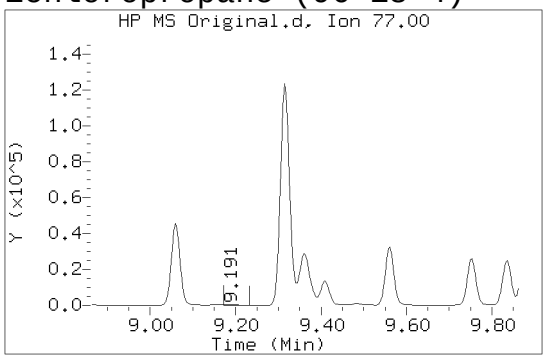


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Inj Date : 29-MAY-2024 12:48
InstruID : VOA9.i
LabSampID : VSTD050

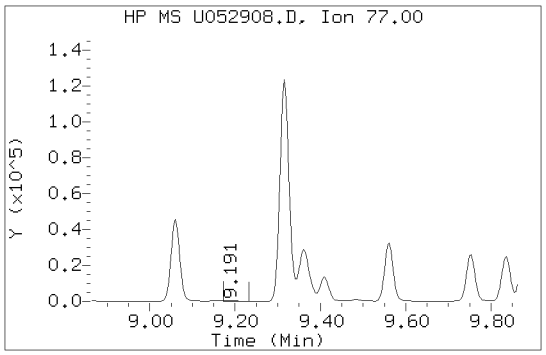
1,2,3-Trichloropropane (96-18-4)

Reason Code:

BEFORE
MASS
77
AREA
710
HEIGHT
473
06-Jun-2024
17:16
s
zaid



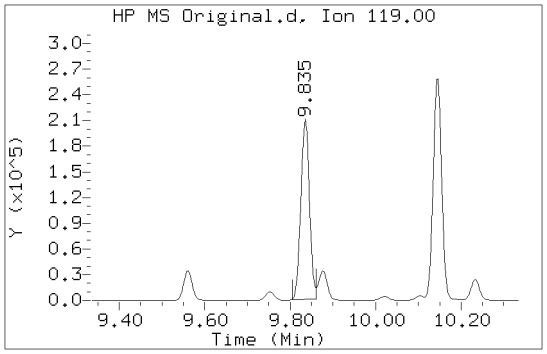
AFTER
MASS
77
AREA
710
HEIGHT
473
07-Jun-2024
10:36



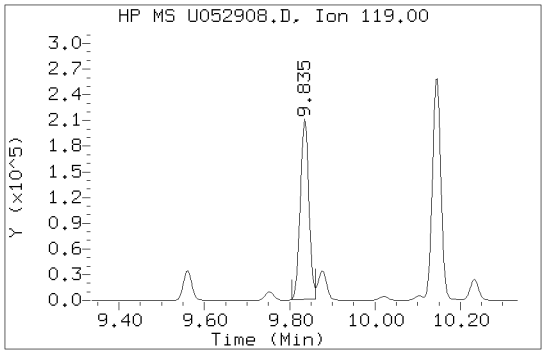
tert-Butylbenzene (98-06-6)

Reason Code:

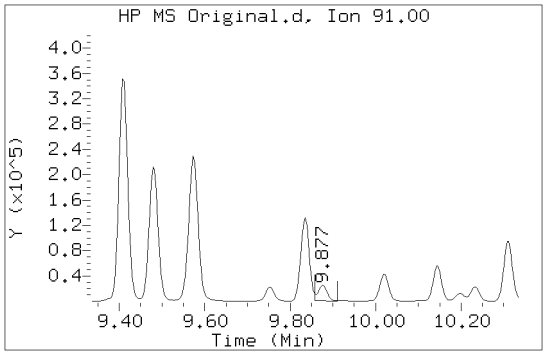
BEFORE
MASS
119
AREA
304303
HEIGHT
210909
06-Jun-2024
17:16
s
zaid



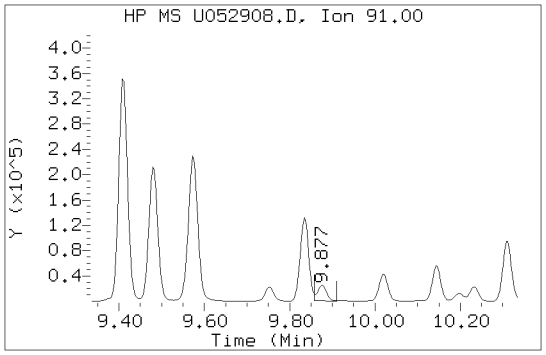
AFTER
MASS
119
AREA
304303
HEIGHT
210909
07-Jun-2024
10:36



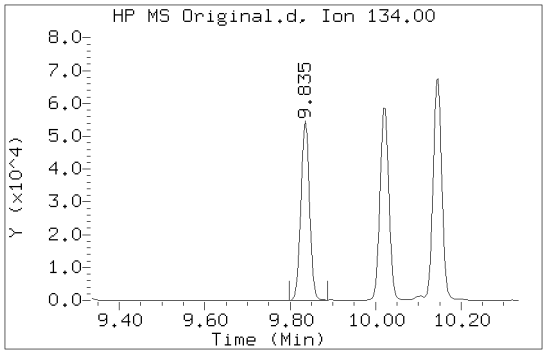
BEFORE
MASS
91
AREA
37883
HEIGHT
25149
06-Jun-2024
17:16
s
zaid



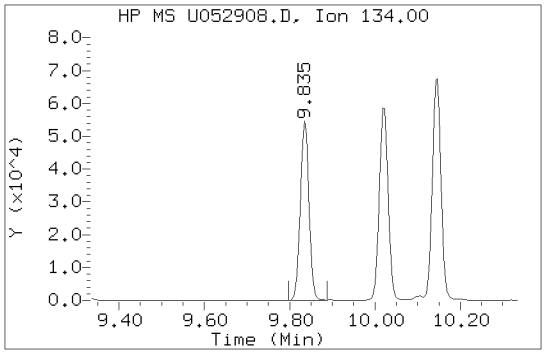
AFTER
MASS
91
AREA
37883
HEIGHT
25149
07-Jun-2024
10:36



BEFORE
MASS
134
AREA
78614
HEIGHT
54632
06-Jun-2024
17:16
s
zaid



AFTER
MASS
134
AREA
78614
HEIGHT
54632
07-Jun-2024
10:36



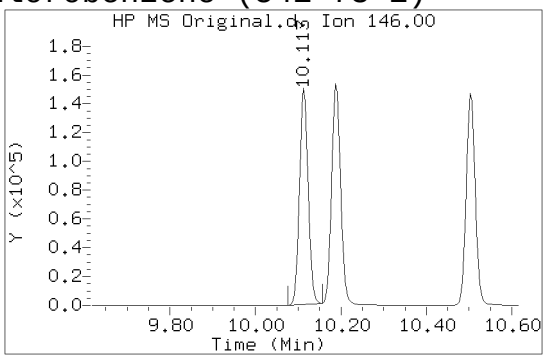
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Inj Date : 29-MAY-2024 12:48
InstruID : VOA9.i
LabSampID : VSTD050

1,3-Dichlorobenzene (541-73-1)

Reason Code:

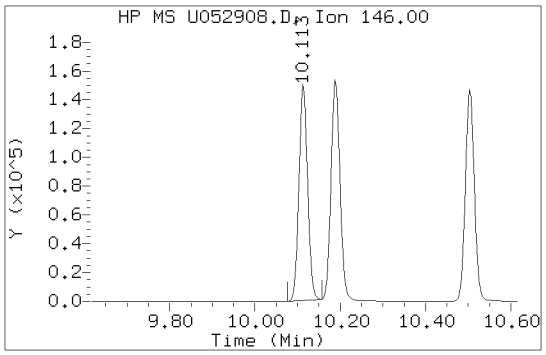
BEFORE

MASS
146
AREA
216427
HEIGHT
150403
06-Jun-2024
17:16
s
zaid



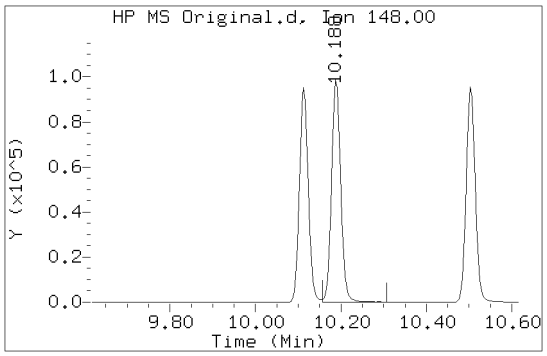
AFTER

MASS
146
AREA
216427
HEIGHT
150403
07-Jun-2024
10:36



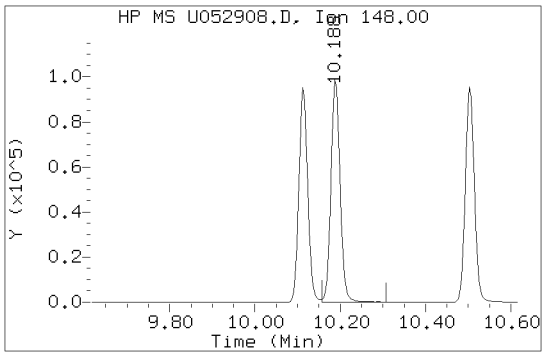
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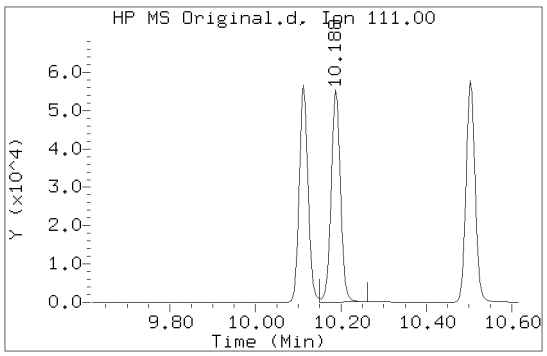
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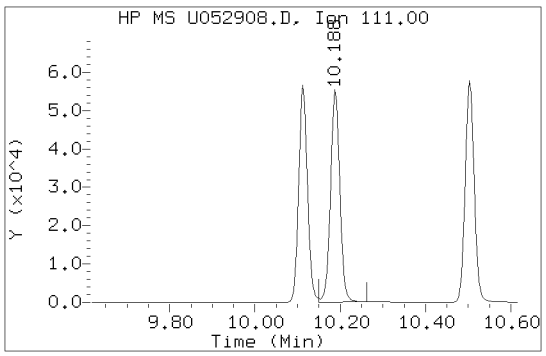
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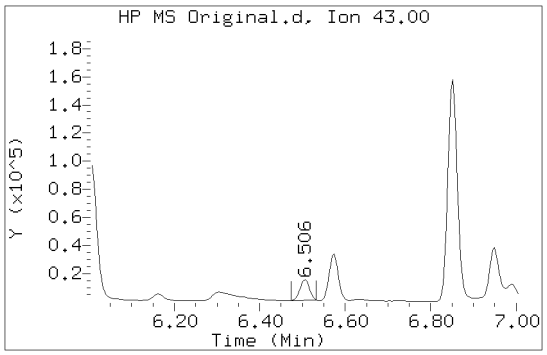


2-Nitropropane (79-46-9)

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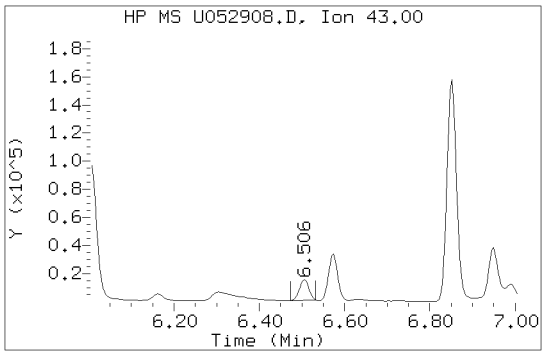
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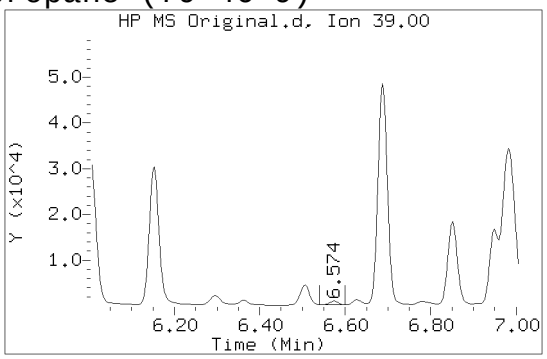
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LabSampID : VSTD050

2-Nitropropane (79-46-9)

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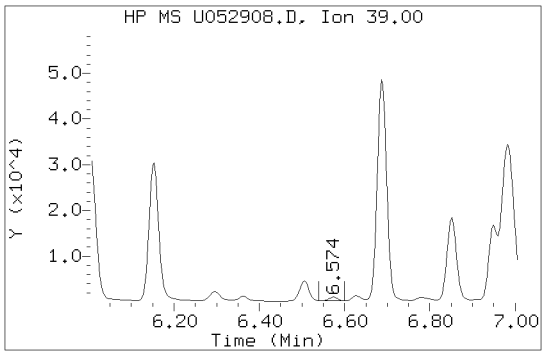
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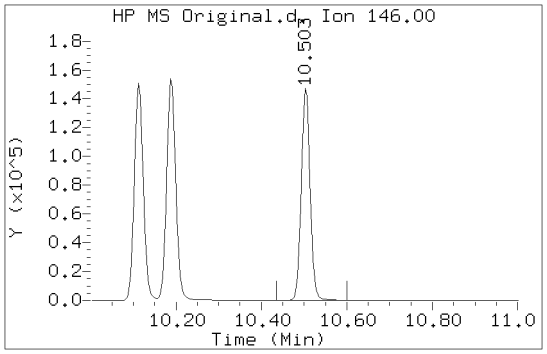


1,2-Dichlorobenzene (95-50-1)

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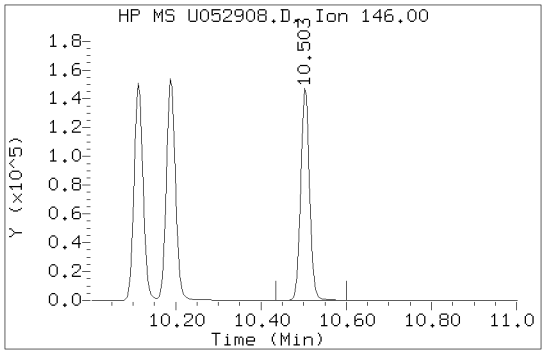
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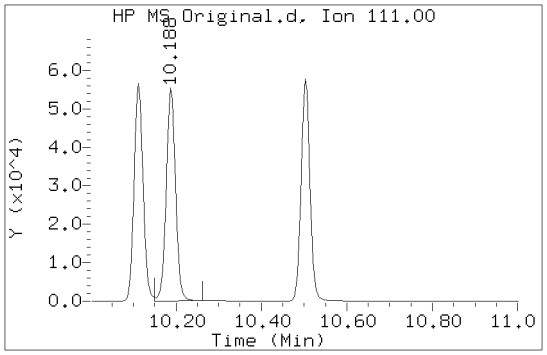
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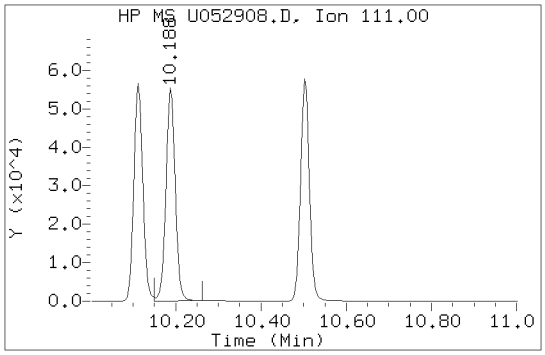
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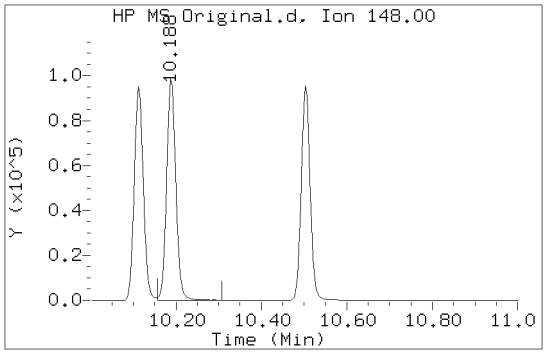
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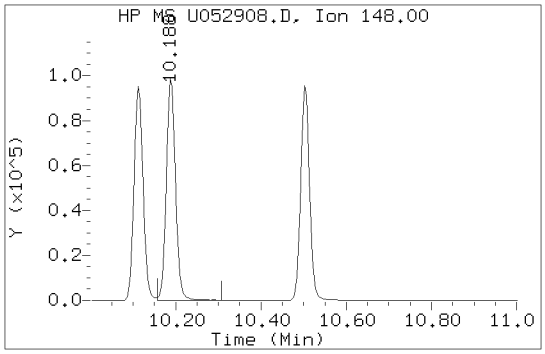
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AFTER

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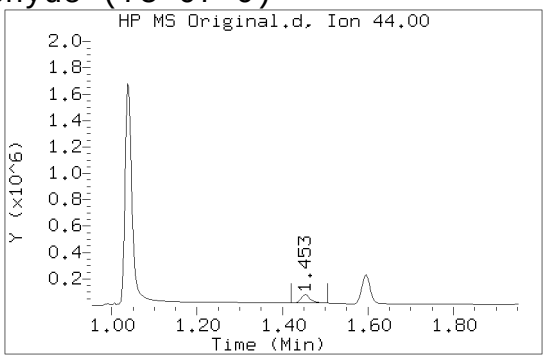


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LabSampID : VSTD050

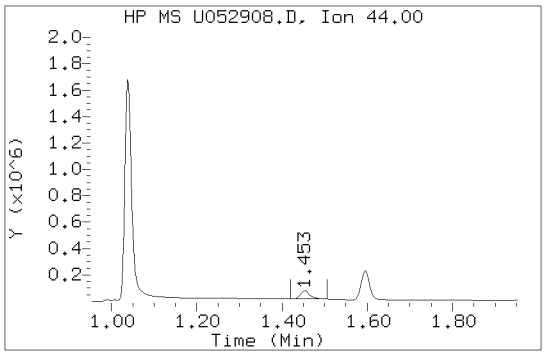
Acetaldehyde (75-07-0)

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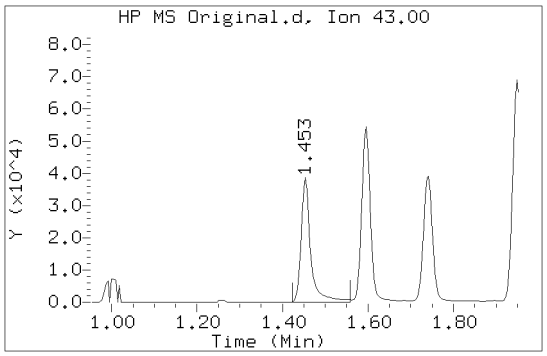
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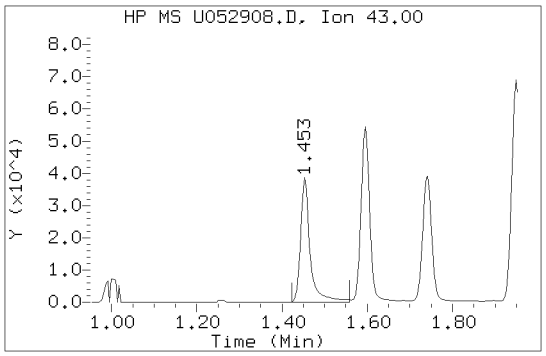
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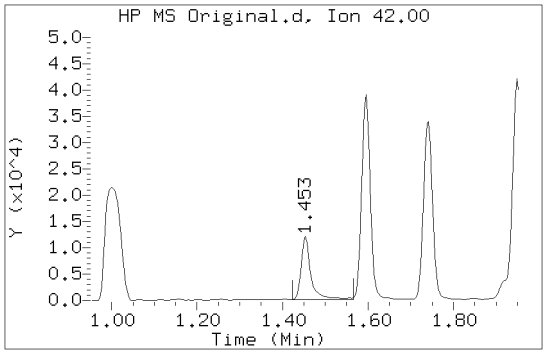
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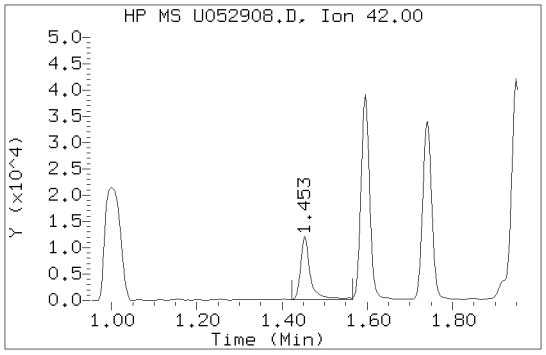
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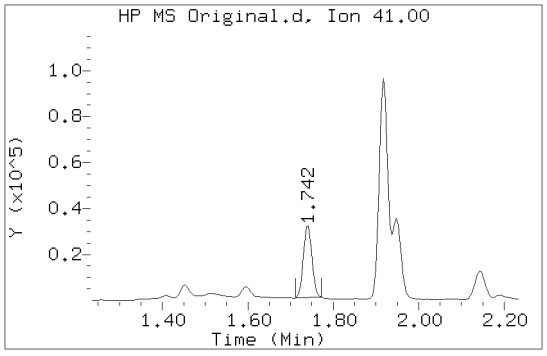
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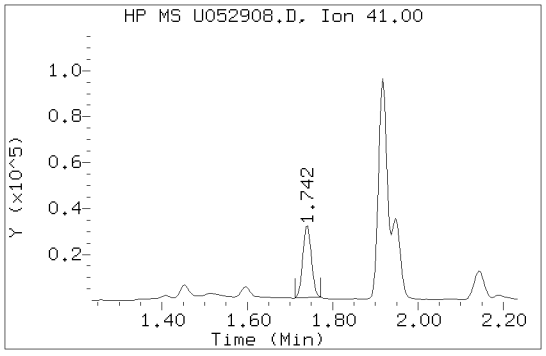
Isobutylene (115-11-7)

Reason Code:

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AFTER
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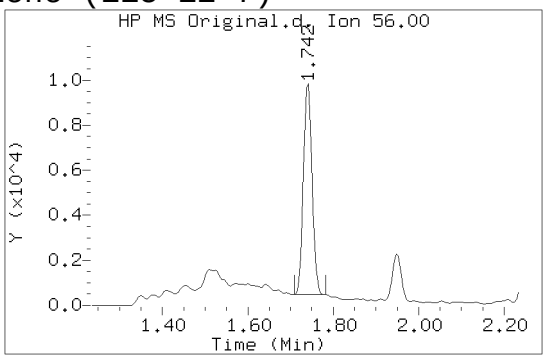
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InstruID : VOA9.i
LabSampID : VSTD050

Isobutylene (115-11-7)

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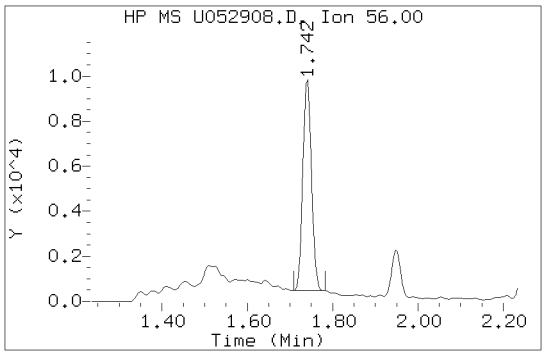
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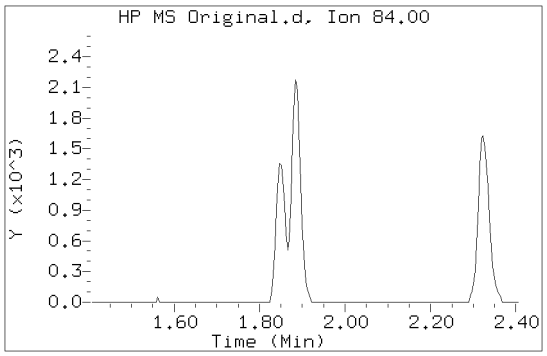
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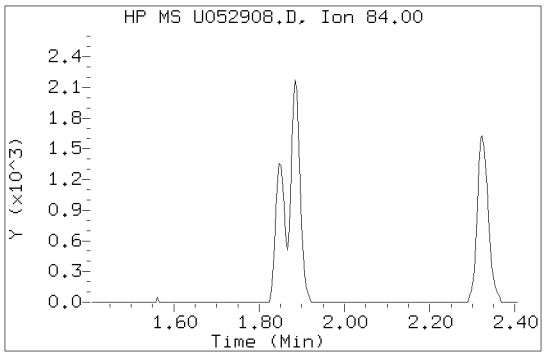
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AFTER

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07-Jun-2024
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Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052909.D Page 1
Report Date: 07-Jun-2024 10:54

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052909.D
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Inj Date : 29-MAY-2024 13:10
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD100;VSTD100;1;8
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240529.b\8260C.m
Meth Date : 07-Jun-2024 10:14 r.patel Quant Type: ISTD
Cal Date : 29-MAY-2024 13:10 Cal File: U052909.D
Als bottle: 9 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.815	4.811	(1.000)	276380	50.0000	
2	Dichlorodifluoromethane	85	1.168	1.156	(0.243)	110361	100.000	107.11(M)
3	Chloromethane	50	1.299	1.288	(0.270)	362966	100.000	99.19
4	Propionitrile	54	4.339	4.339	(0.901)	312519	1000.00	989.93
5	Vinyl Chloride	62	1.378	1.366	(0.286)	210426	100.000	100.82(M)
6	Bromomethane	94	1.610	1.595	(0.334)	88847	100.000	99.33
7	Chloroethane	64	1.696	1.681	(0.352)	148667	100.000	99.08(M)
8	Trichlorofluoromethane	101	1.899	1.884	(0.394)	263223	100.000	106.20
9	Acrolein	56	2.266	2.259	(0.471)	19417	200.000	193.33
10	Acetone	43	2.412	2.405	(0.501)	158455	200.000	193.90
11	1,1-Dichloroethene	96	2.334	2.322	(0.485)	179095	100.000	98.29
12	Isobutyl Alcohol	43	5.288	5.284	(1.098)	634410	2000.00	2020.54
13	Acetonitrile	39	2.675	2.663	(0.555)	225476	1000.00	1005.72
14	Allyl Chloride	41	2.675	2.667	(0.555)	552669	100.000	99.24
15	Iodomethane	142	2.469	2.457	(0.513)	73121	200.000	18.58
16	Acrylonitrile	53	3.068	3.061	(0.637)	154935	200.000	196.83
17	Methylene Chloride	84	2.795	2.783	(0.580)	213527	100.000	99.28
18	Methyl tert-butyl ether	73	3.083	3.076	(0.640)	517202	100.000	98.57
19	Carbon Disulfide	76	2.521	2.510	(0.524)	1023250	200.000	200.20
20	trans-1,2-Dichloroethene	96	3.057	3.050	(0.635)	193495	100.000	93.92
21	Vinyl Acetate	43	4.343	4.339	(0.902)	238681	200.000	195.96

22 1,1-Dichloroethane	63	3.514	3.507 (0.730)	356617	100.000	90.10
23 Chloroprene	53	3.608	3.601 (0.749)	298657	100.000	102.91

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052909.D Page 2
Report Date: 07-Jun-2024 10:54

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
24	2-Butanone	43	4.268	4.260	(0.886)	232236	200.000	188.02
25	Methacrylonitrile	41	4.497	4.489	(0.934)	134993	100.000	102.16(a)
26	2,2-Dichloropropane	77	4.182	4.174	(0.868)	268728	100.000	103.45
27	cis-1,2-Dichloroethene	96	4.197	4.189	(0.872)	235065	100.000	92.38
28	Chloroform	83	4.575	4.568	(0.950)	364237	100.000	92.17
29	Bromochloromethane	128	4.470	4.463	(0.928)	113406	100.000	96.57
$ 30	Dibromofluoromethane	113	4.748	4.744	(0.986)	177686	100.000	98.80
31	1,1,1-Trichloroethane	97	4.744	4.736	(0.985)	296179	100.000	107.02
32	1,1-Dichloropropene	75	4.920	4.916	(0.886)	284376	100.000	98.43
33	1,2-Dichloroethane	62	5.175	5.171	(0.932)	287619	100.000	96.33(M)
34	Carbon Tetrachloride	117	4.913	4.905	(0.885)	245615	100.000	108.52(M)
$ 35	1,2-Dichloroethane-d4	65	5.096	5.093	(1.058)	204529	100.000	95.89
* 36	1,4-Difluorobenzene	114	5.554	5.550	(1.000)	398880	50.0000	
37	Benzene	78	5.138	5.134	(0.925)	849770	100.000	90.44
38	Trichloroethene	130	5.786	5.786	(1.042)	223146	100.000	96.49
39	Bromodichloromethane	83	6.277	6.277	(1.130)	260676	100.000	103.16
40	Methyl Methacrylate	41	5.824	5.827	(1.209)	100414	100.000	98.92
41	2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	179421	200.000	197.96
42	1,2-Dichloropropane	63	6.007	6.007	(1.082)	224092	100.000	90.43(M)
43	2-Nitropropane	43	6.506	6.506	(1.351)	50838	100.000	98.30(M)
44	Dibromomethane	93	6.120	6.116	(1.102)	136786	100.000	95.06
45	4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	496657	200.000	198.79
46	cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	349144	100.000	99.32
* 47	Chlorobenzene-d5	117	8.185	8.185	(1.000)	359514	50.0000	
$ 48	Toluene-d8	98	6.922	6.918	(0.846)	670353	100.000	97.58
49	Ethyl Methacrylate	69	7.289	7.289	(1.312)	305423	100.000	98.99
50	Toluene	91	6.978	6.978	(0.853)	874010	100.000	89.55
51	trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	288024	100.000	99.31
52	2-Hexanone	43	7.589	7.589	(0.927)	326398	200.000	197.85(M)
53	1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	172371	100.000	99.43
54	1,3-Dichloropropane	76	7.496	7.499	(0.916)	370135	100.000	93.11
55	Dibromochloromethane	129	7.690	7.690	(0.940)	219518	100.000	99.77
56	Tetrachloroethene	164	7.454	7.454	(0.911)	174914	100.000	102.62
57	1,2-Dibromoethane	107	7.784	7.784	(0.951)	207947	100.000	96.89
58	1-Chlorohexane	55	8.197	8.196	(1.476)	168663	100.000	97.76
59	Chlorobenzene	112	8.208	8.208	(1.003)	563893	100.000	91.00
60	1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	205411	100.000	103.88
61	Ethylbenzene	106	8.305	8.305	(1.015)	289334	100.000	98.23
62	m,p-Xylenes	106	8.406	8.406	(1.027)	741524	200.000	196.91
63	o-Xylene	106	8.744	8.744	(1.068)	356834	100.000	95.26
64	Styrene	104	8.759	8.759	(1.070)	601084	100.000	101.01
66	Bromoform	173	8.916	8.916	(1.089)	145408	100.000	99.61
67	Isopropylbenzene	105	9.059	9.059	(1.107)	884658	100.000	103.09
68	1,1,2,2-Tetrachloroethane	83	9.325	9.329	(0.917)	297282	100.000	92.22
$ 69	4-Bromofluorobenzene	95	9.190	9.190	(1.123)	241554	100.000	96.70
* 70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	193926	50.0000	
71	1,2,3-Trichloropropane	75	9.362	9.362	(0.921)	305205	100.000	100.96(M)
72	trans-1,4-Dichloro-2-butene	53	9.374	9.377	(1.145)	63452	100.000	103.29
73	n-Propylbenzene	91	9.411	9.411	(0.926)	1039029	100.000	99.42
74	Bromobenzene	156	9.317	9.317	(0.916)	244818	100.000	91.80
75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	721154	100.000	98.68
76	2-Chlorotoluene	91	9.482	9.482	(0.933)	613649	100.000	98.59

77	4-Chlorotoluene	91	9.572	9.576 (0.941)	714656	100.000	95.24
78	tert-Butylbenzene	119	9.835	9.835 (0.967)	612706	100.000	104.42(M)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	733468	100.000	99.28
81	sec-Butylbenzene	105	10.018	10.022	(0.985)	841166	100.000	105.63
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	736481	100.000	106.13
83	1,3-Dichlorobenzene	146	10.112	10.116	(0.994)	427248	100.000	94.87(M)
84	1,4-Dichlorobenzene	146	10.187	10.191	(1.002)	448818	100.000	89.99
86	Benzyl Chloride	91	10.311	10.311	(1.260)	315330	100.000	99.84
87	n-Butylbenzene	91	10.491	10.491	(1.032)	641821	100.000	98.72
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	425491	100.000	91.19(M)
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	43093	100.000	98.97
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	295330	100.000	100.45
91	Hexachlorobutadiene	225	11.998	11.998	(1.180)	114648	100.000	97.19
92	Naphthalene	128	12.065	12.065	(1.187)	733059	100.000	99.54
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	270845	100.000	98.89
146	Methyl acetate	43	2.716	2.708	(0.564)	212417	100.000	96.87
138	Freon TF	101	2.334	2.326	(0.485)	158195	100.000	98.85
141	Cyclohexane	56	4.781	4.778	(0.993)	266868	100.000	98.62
142	Tetrahydrofuran	42	4.545	4.542	(0.944)	81311	200.000	198.94
147	Methylcyclohexane	55	5.947	5.944	(1.071)	512252	100.000	99.13
135	1,4-Dioxane	88	6.168	6.168	(1.281)	56513	2000.00	1942.84
132	n-Butanol	56	5.824	5.827	(1.209)	149062	2000.00	2002.08
136	n-Hexane	57	3.342	3.331	(0.694)	189432	100.000	98.44
139	Diethyl ether	59	2.150	2.139	(0.447)	146534	100.000	98.00
148	Tert-butyl alcohol	59	2.978	2.975	(0.619)	398358	2000.00	1985.11
149	Isopropyl alcohol	45	2.573	2.570	(0.534)	314658	2000.00	1991.14
152	Amyl alcohol	42	7.398	7.398	(0.904)	167778	2000.00	1981.15
156	Diisopropyl ether	45	3.623	3.619	(0.752)	651361	100.000	92.30
162	Butyl acrylate	55	8.729	8.733	(1.066)	408695	100.000	98.59
187	n-Amyl acetate	43	8.928	8.931	(1.091)	388877	100.000	99.61
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	944339	100.000	94.94
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	651618	100.000	95.69
167	Ethanol	45	2.090	2.086	(0.434)	59044	2000.00	1990.50
172	tert-Butyl formate	59	5.246	5.250	(1.090)	431666	200.000	197.72
173	3,3-Dimethyl-1-butanol	57	7.780	7.784	(0.951)	478667	2000.00	1912.89
174	tert-Amyl methyl ether	73	5.288	5.284	(1.098)	628654	100.000	97.21
175	tert-Butyl ethyl ether	59	4.054	4.047	(0.842)	585044	100.000	92.55
176	tert-Amyl alcohol	59	5.246	5.250	(1.090)	431666	2000.00	1954.50
151	4-Methyl-2-pentanol	45	7.218	7.222	(1.300)	1368113	2000.00	1964.30
140	1,3-Butadiene	54	1.408	1.396	(0.292)	102671	100.000	100.40
182	Epichlorohydrin	57	6.630	6.630	(1.194)	61001	400.000	399.90
M 94	1,2-Dichloroethylene (total)	96				428560	200.000	(a)
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	307618	100.000	99.23
130	Ethyl Acetate	43	4.343	4.339	(0.902)	238681	100.000	93.76
131	Methyl Acrylate	55	4.373	4.365	(0.908)	259299	100.000	98.33
189	n-Butyl acetate	43	7.702	7.702	(0.941)	380886	100.000	100.91
134	Cyclohexanone	55	9.152	9.152	(0.900)	221511	2000.00	1965.66
185	Isoprene	39	2.157	2.146	(0.448)	45875	100.000	99.89
188	Isopropyl acetate	43	5.288	5.284	(0.952)	630116	100.000	95.20
150	Allyl alcohol	57	3.342	3.331	(0.694)	189432	2000.00	1968.84
194	Acetaldehyde	44	1.464	1.453	(0.304)	187809	400.000	394.84(M)
195	Methyl Amyl Ketone	43	8.868	8.868	(1.083)	438157	100.000	100.04
200	Dimethyl Disulfide	94	6.746	6.746	(0.824)	196799	100.000	95.46
202	Isobutylene	41	1.749	1.734	(0.363)	91262	100.000	102.56(M)

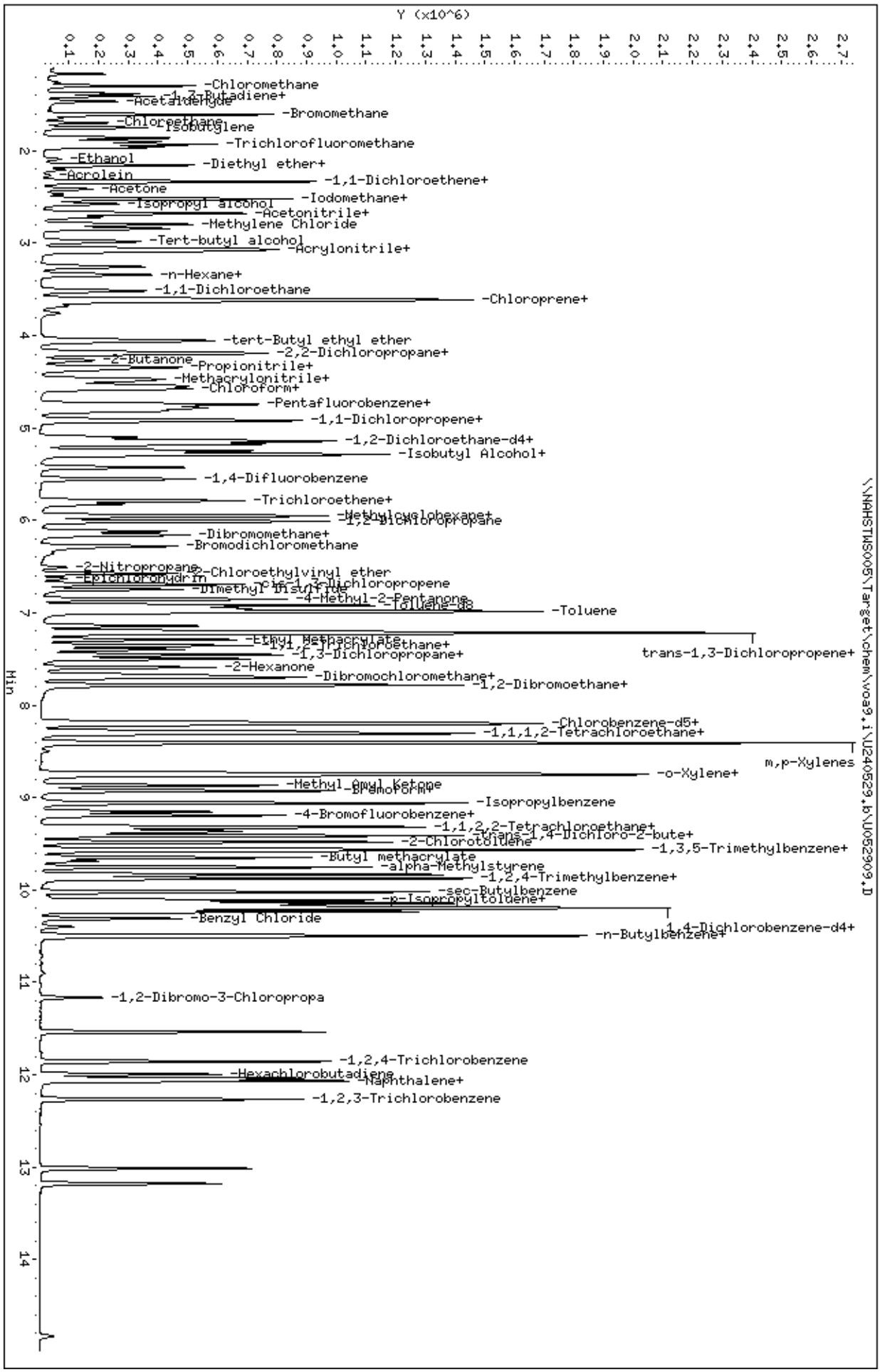
133 Ethyl Acrylate	55	5.947	5.944 (1.235)	512252	100.000	99.54
163 Butyl methacrylate	41	9.647	9.647 (0.949)	223010	100.000	99.38

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052909.D Page 4
Report Date: 07-Jun-2024 10:54

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
159 Propylene oxide	43	2.202	2.191	(0.457)	32032	200.000	197.49
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	271079	100.000	101.37

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052909.D
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Client ID: VSTD100
Sample Info: VSTD100;VSTD100;1;8
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: FT
Column diameter: 0.18

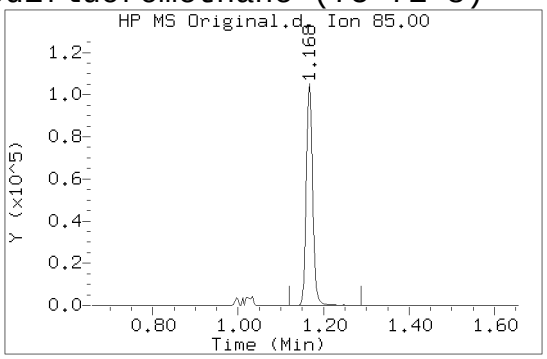
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InstruID : VOA9.i
LabSampID : VSTD100

Dichlorodifluoromethane (75-71-8)

Reason Code:

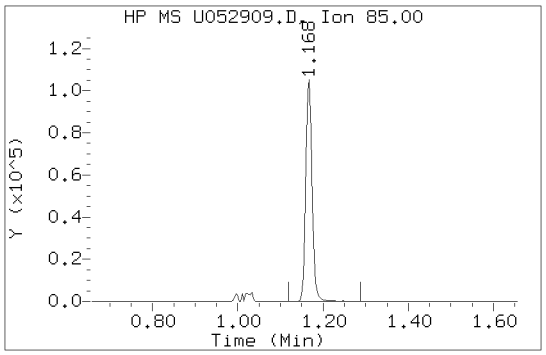
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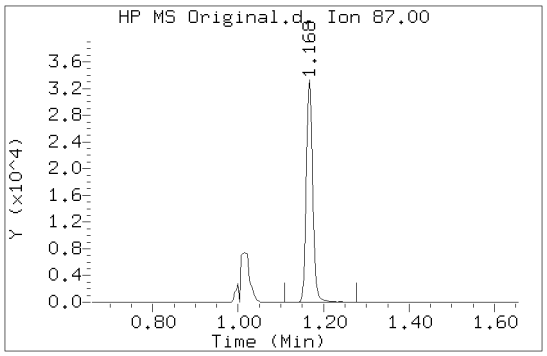
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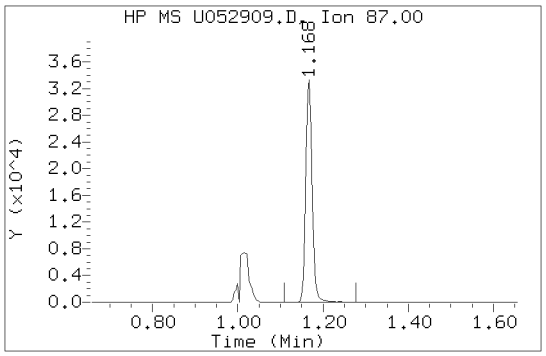
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AFTER

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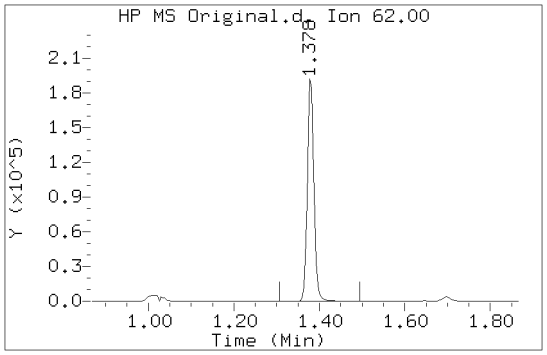


Vinyl Chloride (75-01-4)

Reason Code:

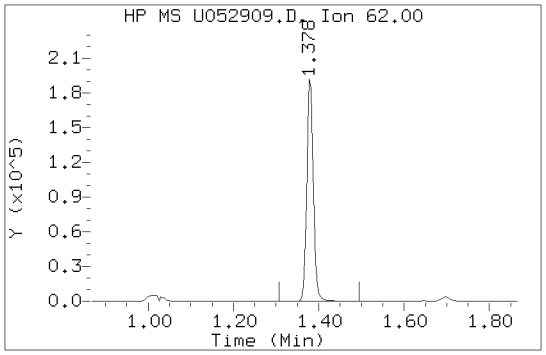
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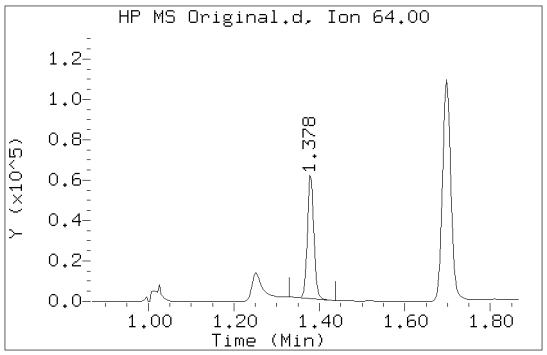
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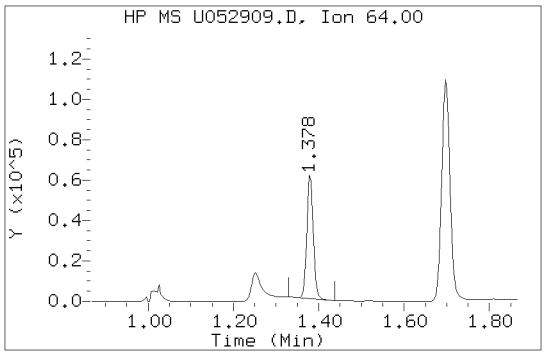
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AFTER

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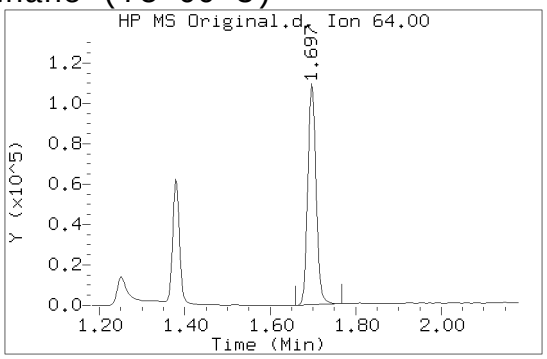
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InstruID : VOA9.i
LabSampID : VSTD100

Chloroethane (75-00-3)

Reason Code:

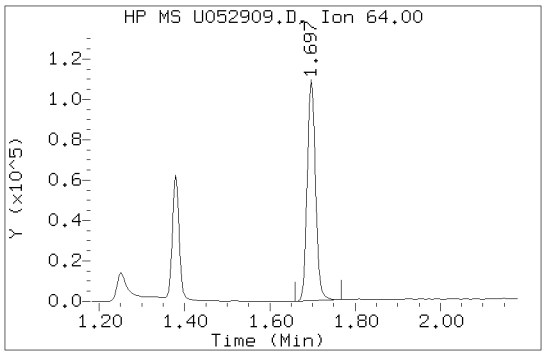
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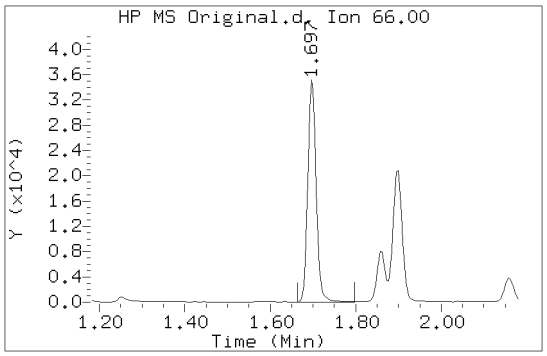
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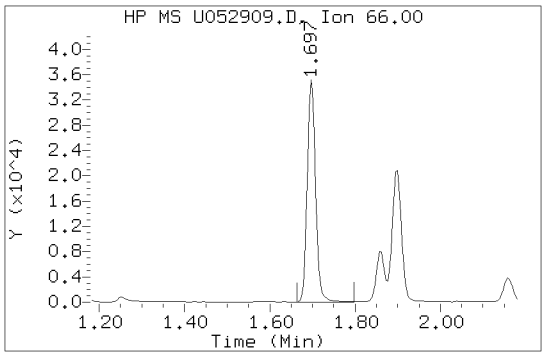
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AFTER

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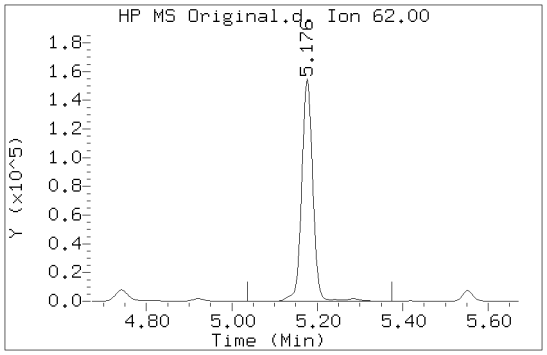


1,2-Dichloroethane (107-06-2)

Reason Code:

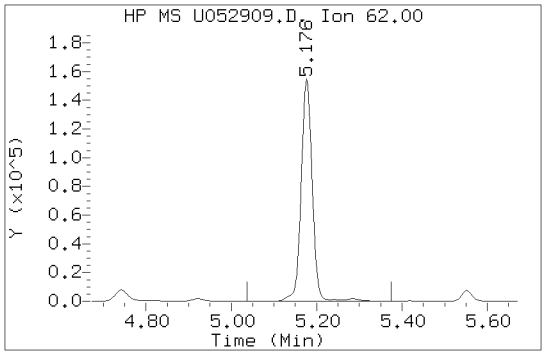
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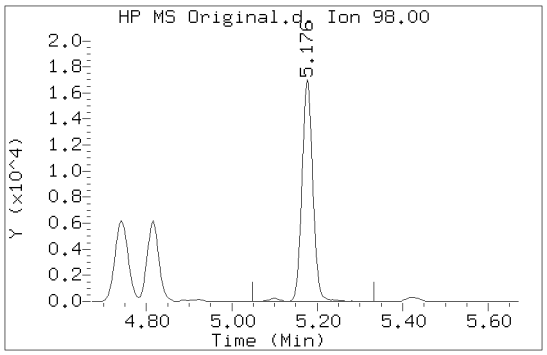
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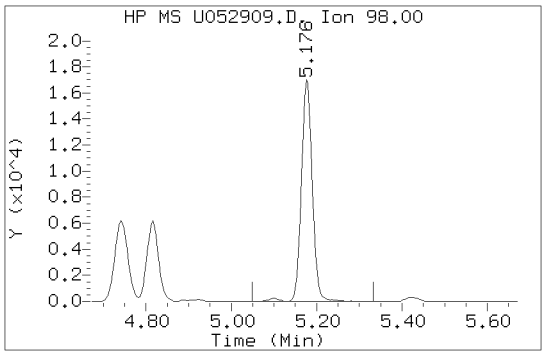
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AFTER

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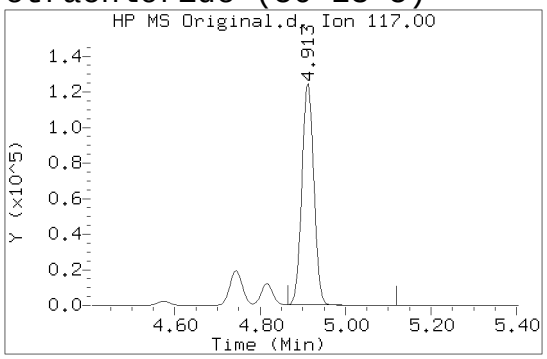


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LabSampID : VSTD100

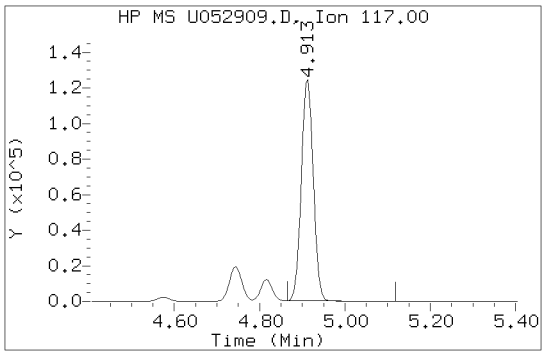
Carbon Tetrachloride (56-23-5)

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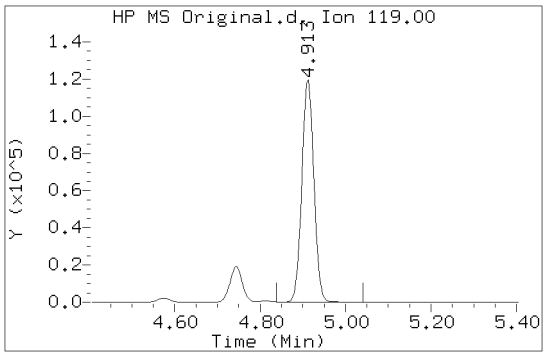
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06-Jun-2024
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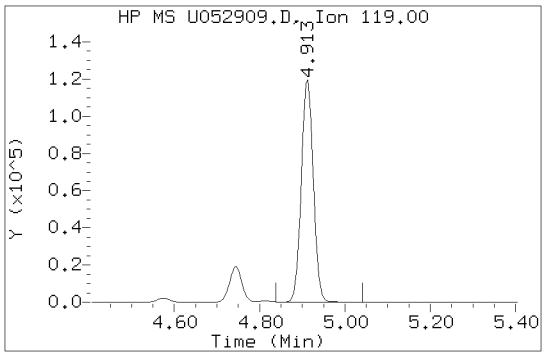
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BEFORE
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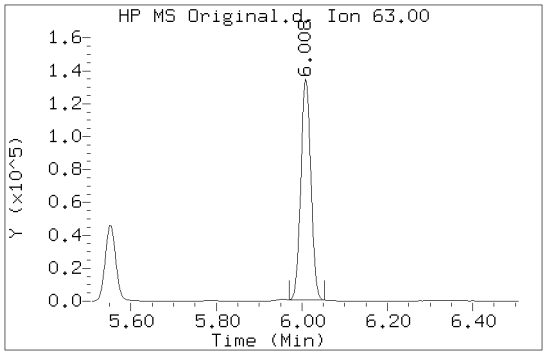
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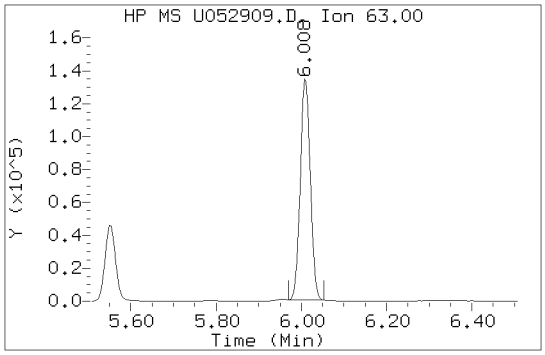
1,2-Dichloropropane (78-87-5)

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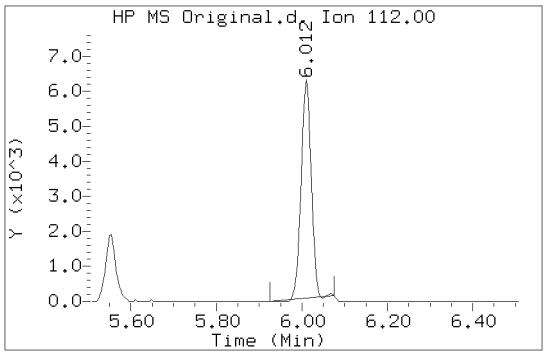
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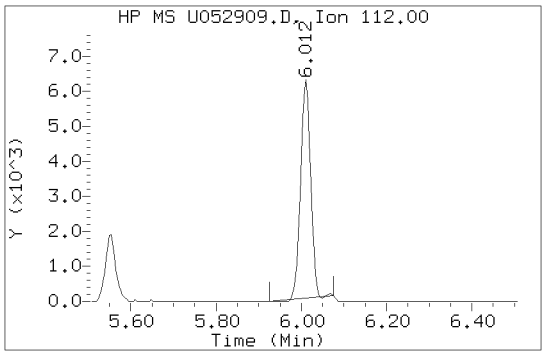
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BEFORE
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AFTER
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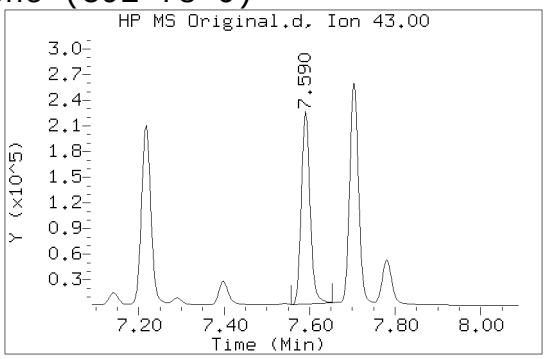


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LabSampID : VSTD100

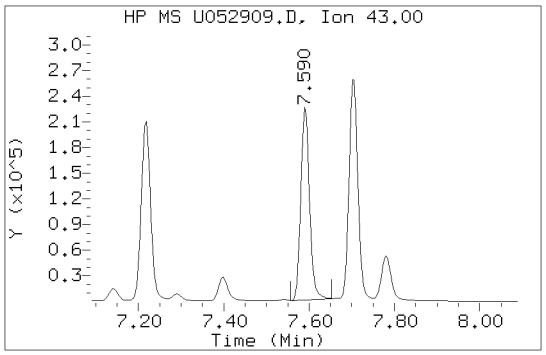
2-Hexanone (591-78-6)

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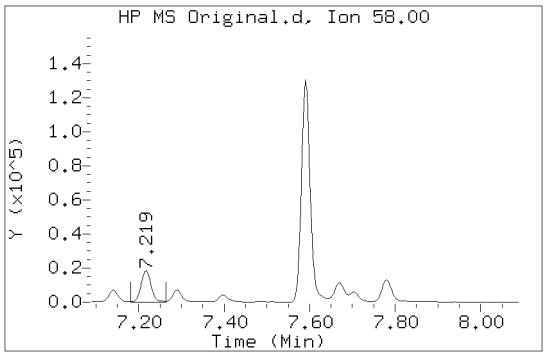
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zaid



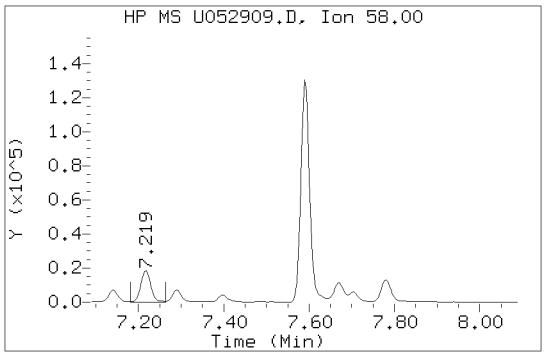
AFTER
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43
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326398
HEIGHT
225146
07-Jun-2024
10:36



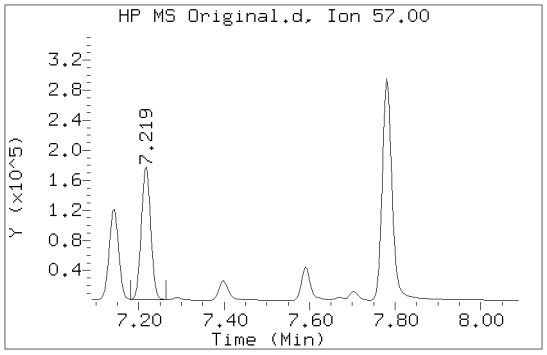
BEFORE
MASS
58
AREA
30330
HEIGHT
18390
06-Jun-2024
17:20
s
zaid



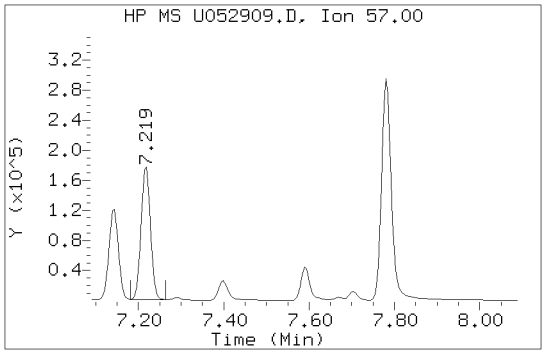
AFTER
MASS
58
AREA
30330
HEIGHT
18390
07-Jun-2024
10:36



BEFORE
MASS
57
AREA
269940
HEIGHT
176071
06-Jun-2024
17:20
s
zaid



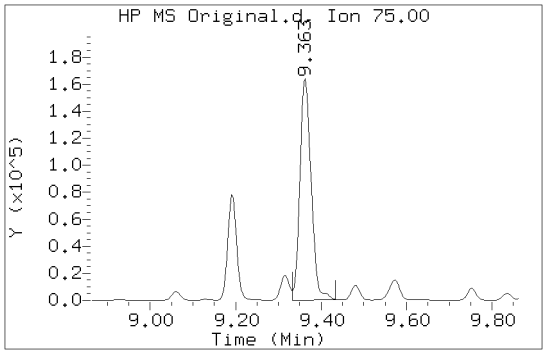
AFTER
MASS
57
AREA
269940
HEIGHT
176071
07-Jun-2024
10:36



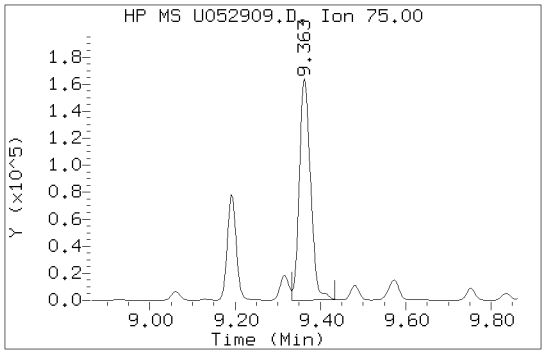
1,2,3-Trichloropropane (96-18-4)

Reason Code:

BEFORE
MASS
75
AREA
305205
HEIGHT
163758
06-Jun-2024
17:20
s
zaid



AFTER
MASS
75
AREA
305205
HEIGHT
163758
07-Jun-2024
10:36

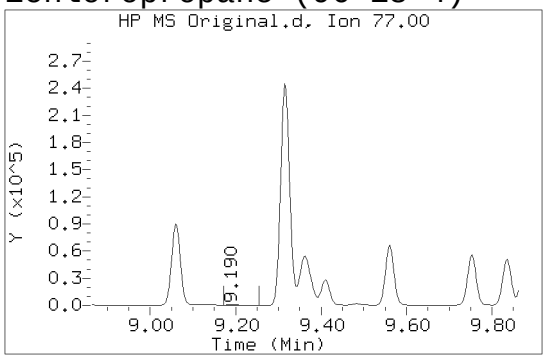


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Inj Date : 29-MAY-2024 13:10
InstruID : VOA9.i
LabSampID : VSTD100

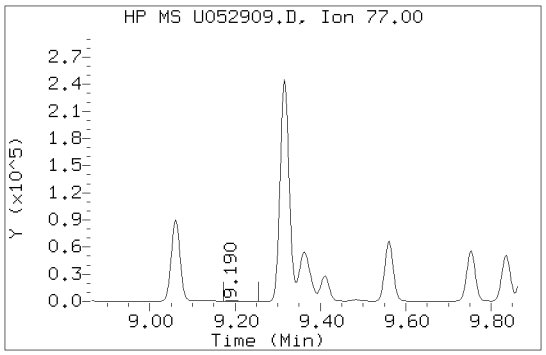
1,2,3-Trichloropropane (96-18-4)

Reason Code:

BEFORE
MASS
77
AREA
1513
HEIGHT
932
06-Jun-2024
17:20
s
zaid



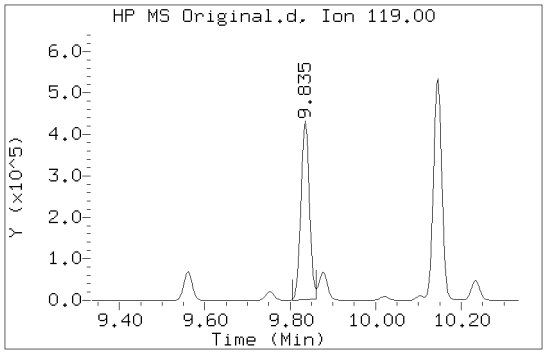
AFTER
MASS
77
AREA
1513
HEIGHT
932
07-Jun-2024
10:36



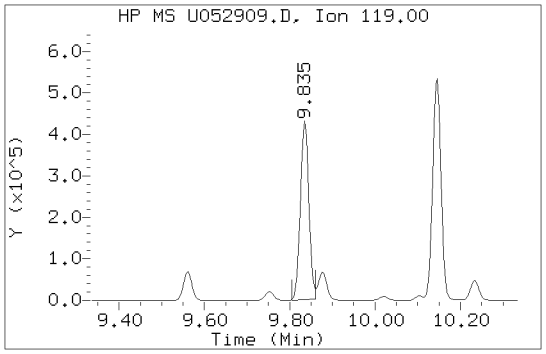
tert-Butylbenzene (98-06-6)

Reason Code:

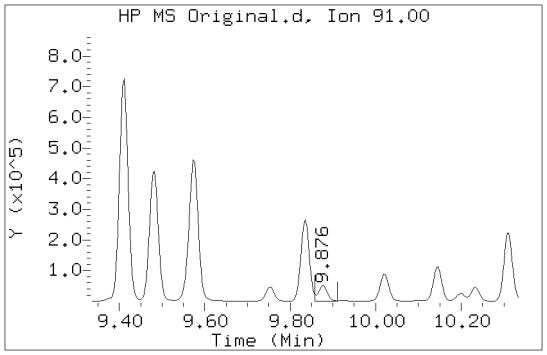
BEFORE
MASS
119
AREA
612706
HEIGHT
431178
06-Jun-2024
17:20
s
zaid



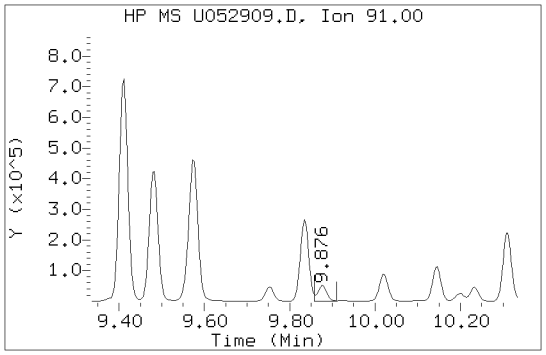
AFTER
MASS
119
AREA
612706
HEIGHT
431178
07-Jun-2024
10:36



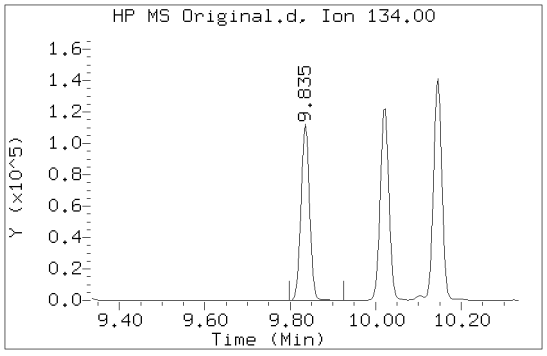
BEFORE
MASS
91
AREA
75838
HEIGHT
50917
06-Jun-2024
17:20
s
zaid



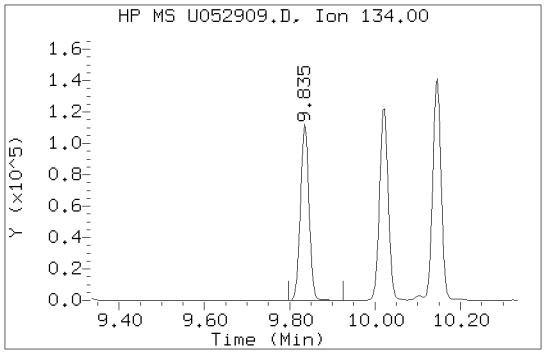
AFTER
MASS
91
AREA
75838
HEIGHT
50917
07-Jun-2024
10:36



BEFORE
MASS
134
AREA
159747
HEIGHT
112160
06-Jun-2024
17:20
s
zaid



AFTER
MASS
134
AREA
159747
HEIGHT
112160
07-Jun-2024
10:36



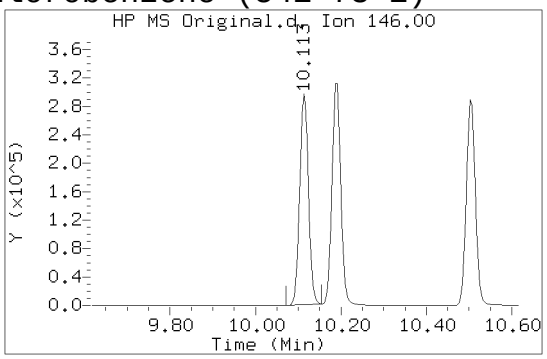
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Inj Date : 29-MAY-2024 13:10
InstruID : VOA9.i
LabSampID : VSTD100

1,3-Dichlorobenzene (541-73-1)

Reason Code:

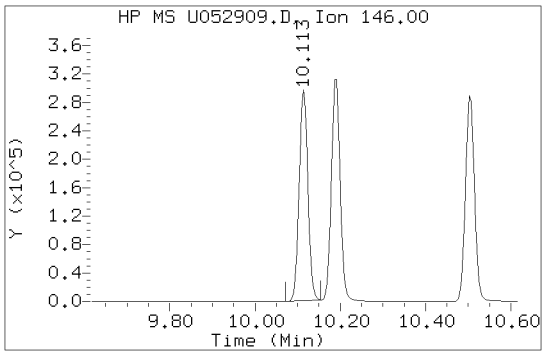
BEFORE

MASS
146
AREA
427248
HEIGHT
297062
06-Jun-2024
17:20
s
zaid



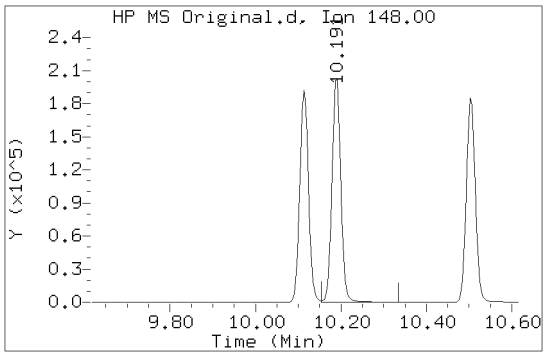
AFTER

MASS
146
AREA
427248
HEIGHT
297062
07-Jun-2024
10:36



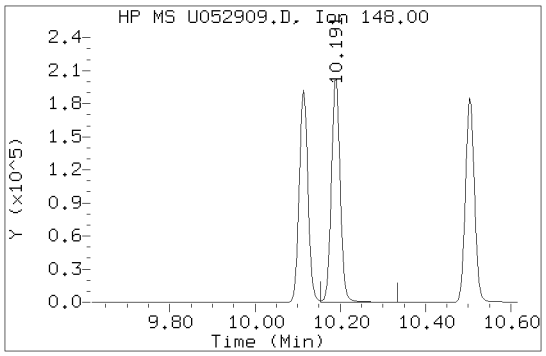
BEFORE

MASS
148
AREA
290011
HEIGHT
201564
06-Jun-2024
17:20
s
zaid



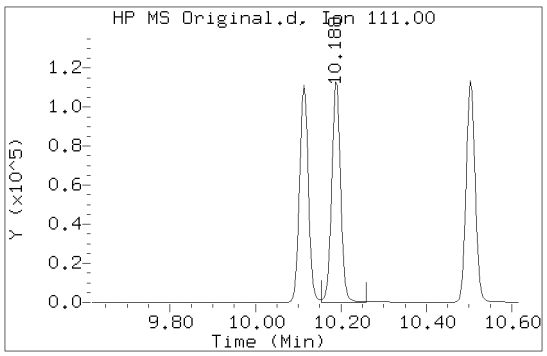
AFTER

MASS
148
AREA
290011
HEIGHT
201564
07-Jun-2024
10:36



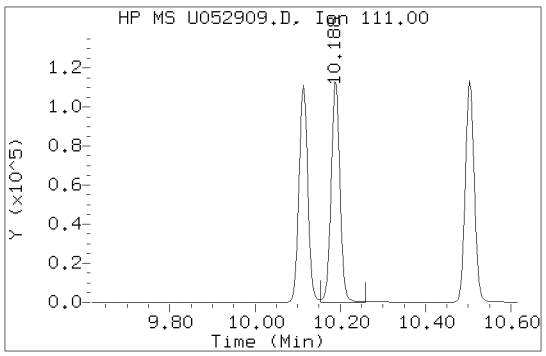
BEFORE

MASS
111
AREA
161994
HEIGHT
113002
06-Jun-2024
17:20
s
zaid



AFTER

MASS
111
AREA
161994
HEIGHT
113002
07-Jun-2024
10:36

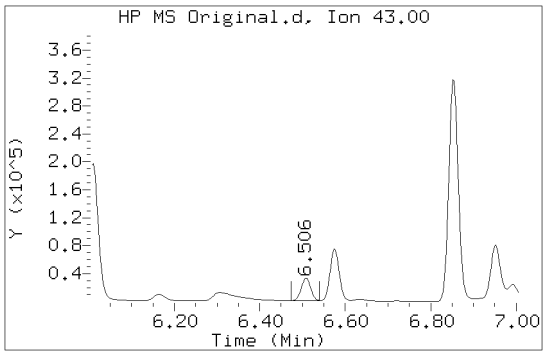


2-Nitropropane (79-46-9)

Reason Code:

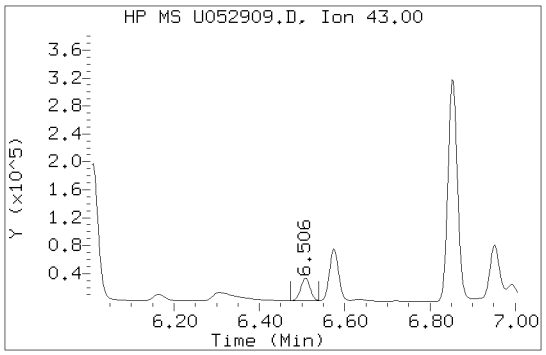
BEFORE

MASS
43
AREA
50838
HEIGHT
32442
06-Jun-2024
17:20
s
zaid



AFTER

MASS
43
AREA
50838
HEIGHT
32442
07-Jun-2024
10:36



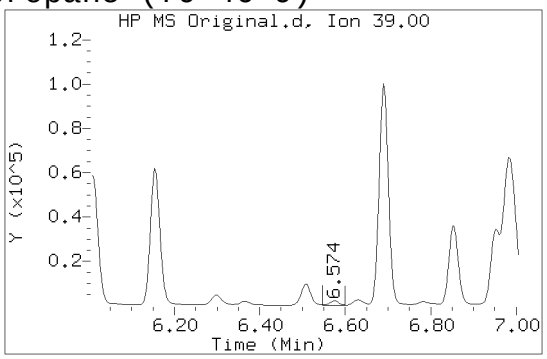
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Inj Date : 29-MAY-2024 13:10
InstruID : VOA9.i
LabSampID : VSTD100

2-Nitropropane (79-46-9)

Reason Code:

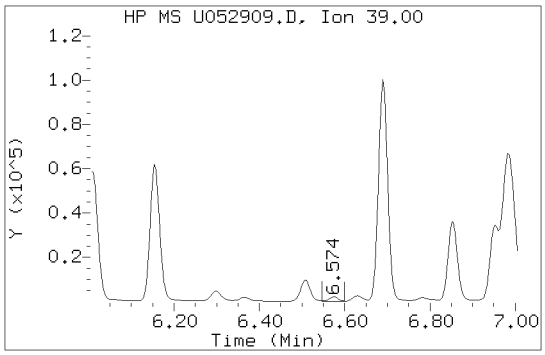
BEFORE

MASS
39
AREA
2760
HEIGHT
1997
06-Jun-2024
17:20
s
zaid



AFTER

MASS
39
AREA
2760
HEIGHT
1997
07-Jun-2024
10:36

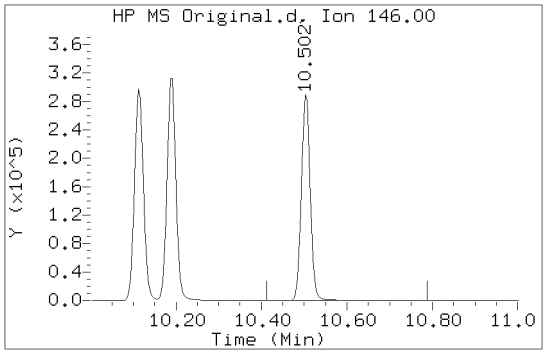


1,2-Dichlorobenzene (95-50-1)

Reason Code:

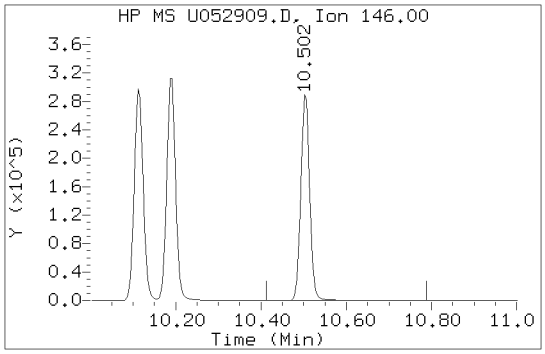
BEFORE

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AREA
425491
HEIGHT
289830
06-Jun-2024
17:20
s
zaid



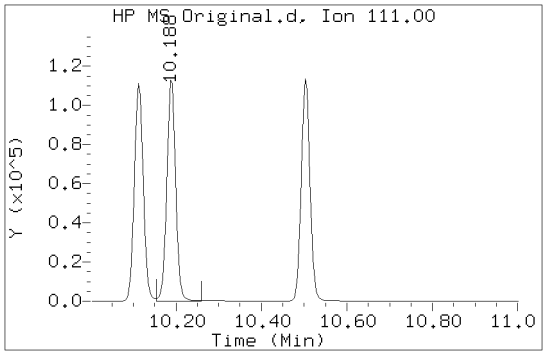
AFTER

MASS
146
AREA
425491
HEIGHT
289830
07-Jun-2024
10:36



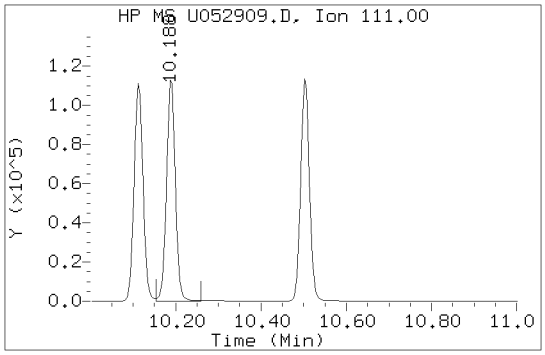
BEFORE

MASS
111
AREA
161994
HEIGHT
113002
06-Jun-2024
17:20
s
zaid



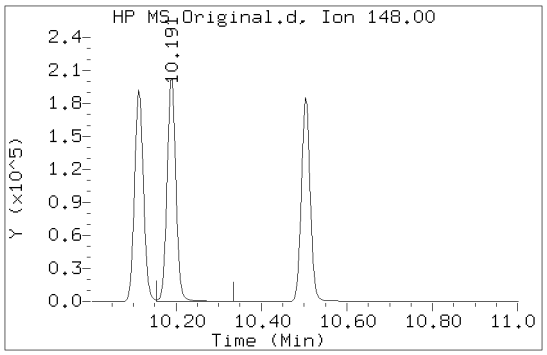
AFTER

MASS
111
AREA
161994
HEIGHT
113002
07-Jun-2024
10:36



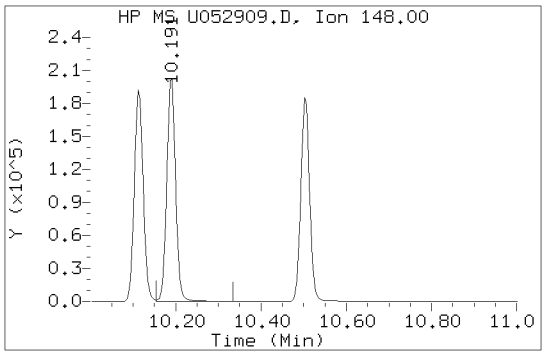
BEFORE

MASS
148
AREA
290011
HEIGHT
201564
06-Jun-2024
17:20
s
zaid



AFTER

MASS
148
AREA
290011
HEIGHT
201564
07-Jun-2024
10:36

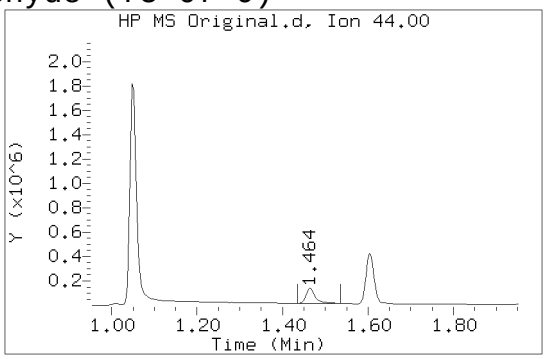


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LabSampID : VSTD100

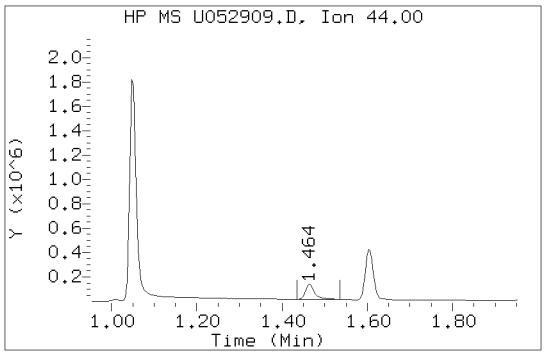
Acetaldehyde (75-07-0)

Reason Code:

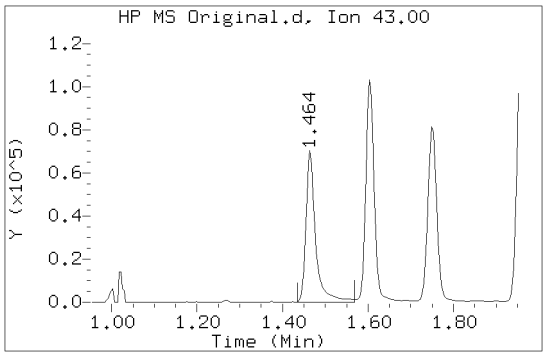
BEFORE
MASS
44
AREA
187809
HEIGHT
126730
06-Jun-2024
17:20
s
zaid



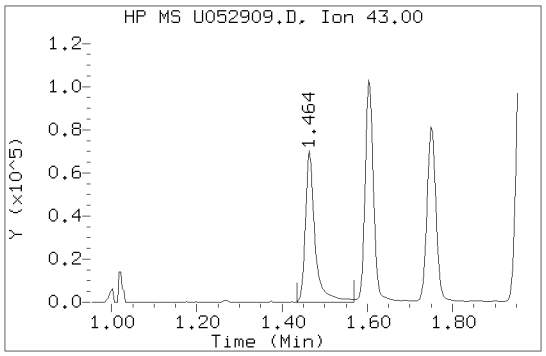
AFTER
MASS
44
AREA
187809
HEIGHT
126730
07-Jun-2024
10:36



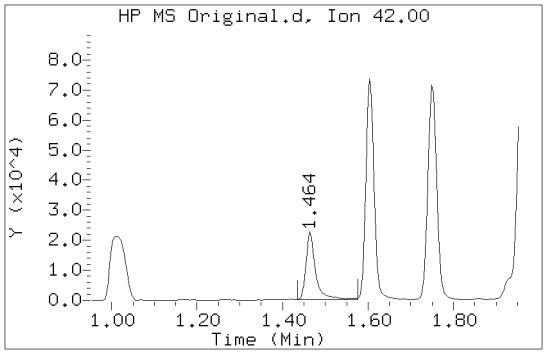
BEFORE
MASS
43
AREA
113363
HEIGHT
70392
06-Jun-2024
17:20
s
zaid



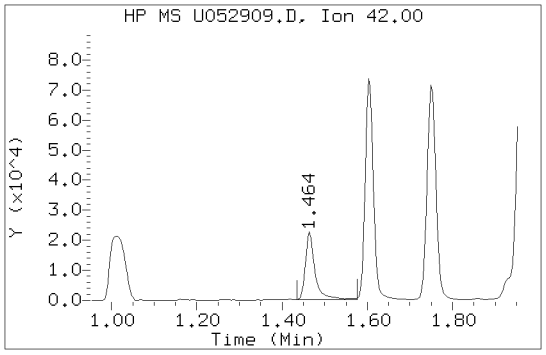
AFTER
MASS
43
AREA
113363
HEIGHT
70392
07-Jun-2024
10:36



BEFORE
MASS
42
AREA
36254
HEIGHT
22604
06-Jun-2024
17:20
s
zaid



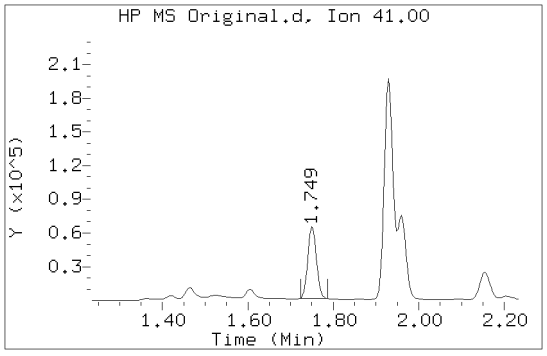
AFTER
MASS
42
AREA
36254
HEIGHT
22604
07-Jun-2024
10:36



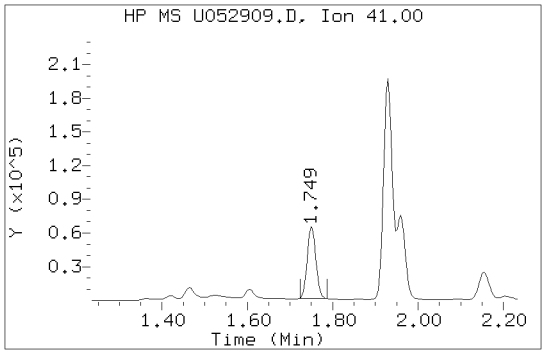
Isobutylene (115-11-7)

Reason Code:

BEFORE
MASS
41
AREA
91262
HEIGHT
63977
06-Jun-2024
17:20
s
zaid



AFTER
MASS
41
AREA
91262
HEIGHT
63977
07-Jun-2024
10:36



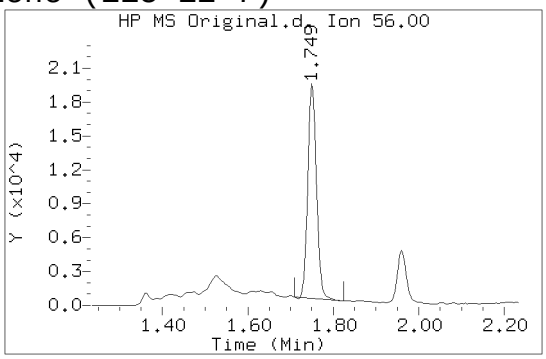
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Inj Date : 29-MAY-2024 13:10
InstruID : VOA9.i
LabSampID : VSTD100

Isobutylene (115-11-7)

Reason Code:

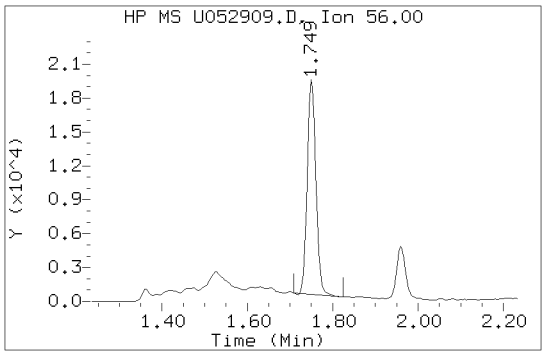
BEFORE

MASS
56
AREA
27210
HEIGHT
18990
06-Jun-2024
17:20
s
zaid



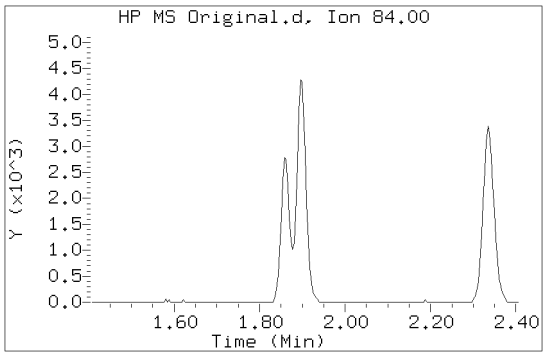
AFTER

MASS
56
AREA
27210
HEIGHT
18990
07-Jun-2024
10:36



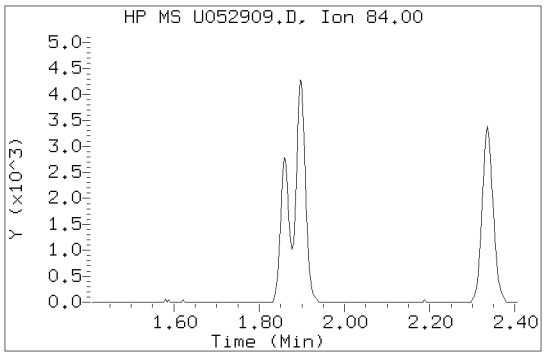
BEFORE

MASS
84
AREA
0
HEIGHT
0
06-Jun-2024
17:20
s
zaid



AFTER

MASS
84
AREA
0
HEIGHT
0
07-Jun-2024
10:36



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Report Date: 07-Jun-2024 10:54

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052910.D
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Inj Date : 29-MAY-2024 13:31
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD150;VSTD150;1;9
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240529.b\8260C.m
Meth Date : 07-Jun-2024 10:14 r.patel Quant Type: ISTD
Cal Date : 29-MAY-2024 13:31 Cal File: U052910.D
Als bottle: 10 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.812	4.811	(1.000)	280064	50.0000	
2	Dichlorodifluoromethane	85	1.160	1.156	(0.241)	177050	150.000	169.57(M)
3	Chloromethane	50	1.292	1.288	(0.269)	564726	150.000	152.69
4	Propionitrile	54	4.339	4.339	(0.902)	508916	1500.00	1502.94
5	Vinyl Chloride	62	1.374	1.366	(0.286)	338607	150.000	160.10(M)
6	Bromomethane	94	1.603	1.595	(0.333)	134828	150.000	149.76
7	Chloroethane	64	1.689	1.681	(0.351)	238484	150.000	151.49(M)
8	Trichlorofluoromethane	101	1.891	1.884	(0.393)	421897	150.000	167.98
9	Acrolein	56	2.262	2.259	(0.470)	33211	300.000	305.58
10	Acetone	43	2.409	2.405	(0.501)	258229	300.000	316.05
11	1,1-Dichloroethene	96	2.326	2.322	(0.484)	288038	150.000	156.01
12	Isobutyl Alcohol	43	5.284	5.284	(1.098)	1019170	3000.00	2949.71
13	Acetonitrile	39	2.667	2.663	(0.554)	357657	1500.00	1574.32
14	Allyl Chloride	41	2.671	2.667	(0.555)	885047	150.000	151.66
16	Acrylonitrile	53	3.065	3.061	(0.637)	251557	300.000	304.15
17	Methylene Chloride	84	2.787	2.783	(0.579)	334515	150.000	150.72
18	Methyl tert-butyl ether	73	3.080	3.076	(0.640)	834255	150.000	151.71
19	Carbon Disulfide	76	2.514	2.510	(0.522)	1648106	300.000	318.22
20	trans-1,2-Dichloroethene	96	3.053	3.050	(0.635)	306881	150.000	146.99
21	Vinyl Acetate	43	4.339	4.339	(0.902)	375770	300.000	304.46
22	1,1-Dichloroethane	63	3.511	3.507	(0.730)	565818	150.000	141.08

23 Chloroprene	53	3.604	3.601 (0.749)	479332	150.000	162.99
24 2-Butanone	43	4.264	4.260 (0.886)	372537	300.000	297.65

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052910.D Page 2
Report Date: 07-Jun-2024 10:54

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	25 Methacrylonitrile	41	4.493	4.489	(0.934)	208472	150.000	148.26(a)
	26 2,2-Dichloropropane	77	4.178	4.174	(0.868)	437898	150.000	166.35
	27 cis-1,2-Dichloroethene	96	4.193	4.189	(0.871)	368949	150.000	143.09
	28 Chloroform	83	4.572	4.568	(0.950)	573965	150.000	143.33
	29 Bromochloromethane	128	4.467	4.463	(0.928)	178579	150.000	149.92
$	30 Dibromofluoromethane	113	4.744	4.744	(0.986)	285257	150.000	151.49
	31 1,1,1-Trichloroethane	97	4.740	4.736	(0.985)	483999	150.000	172.59
	32 1,1-Dichloropropene	75	4.920	4.916	(0.887)	461502	150.000	158.72
	33 1,2-Dichloroethane	62	5.175	5.171	(0.932)	449209	150.000	149.17(M)
	34 Carbon Tetrachloride	117	4.909	4.905	(0.885)	409418	150.000	179.75(M)
$	35 1,2-Dichloroethane-d4	65	5.096	5.093	(1.059)	321896	150.000	148.69
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	401441	50.0000	
	37 Benzene	78	5.138	5.134	(0.926)	1349201	150.000	142.68
	38 Trichloroethene	130	5.786	5.786	(1.043)	358370	150.000	153.98
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	421785	150.000	165.85
	40 Methyl Methacrylate	41	5.824	5.827	(1.210)	167428	150.000	153.42
	41 2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	309450	300.000	306.63
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	358971	150.000	143.94(M)
	43 2-Nitropropane	43	6.506	6.506	(1.352)	89884	150.000	155.54(M)
	44 Dibromomethane	93	6.116	6.116	(1.102)	214110	150.000	147.84
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	794722	300.000	301.99
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	565316	150.000	151.74
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	366418	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.845)	1052895	150.000	150.27
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	504931	150.000	162.60
	50 Toluene	91	6.978	6.978	(0.853)	1394273	150.000	140.17
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	471401	150.000	152.23
	52 2-Hexanone	43	7.589	7.589	(0.927)	541778	300.000	306.99(M)
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	269298	150.000	150.24
	54 1,3-Dichloropropane	76	7.496	7.499	(0.916)	580772	150.000	143.34
	55 Dibromochloromethane	129	7.691	7.690	(0.940)	353909	150.000	151.40
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	283735	150.000	163.33
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	333089	150.000	152.27
	58 1-Chlorohexane	55	8.193	8.196	(1.476)	289826	150.000	155.31
	59 Chlorobenzene	112	8.208	8.208	(1.003)	900020	150.000	142.51
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	332607	150.000	165.04
	61 Ethylbenzene	106	8.305	8.305	(1.015)	473626	150.000	152.49
	62 m,p-Xylenes	106	8.407	8.406	(1.027)	1202813	300.000	305.46
	63 o-Xylene	106	8.744	8.744	(1.068)	578662	150.000	151.10
	64 Styrene	104	8.759	8.759	(1.070)	962944	150.000	158.77
	66 Bromoform	173	8.916	8.916	(1.089)	242102	150.000	152.44
	67 Isopropylbenzene	105	9.059	9.059	(1.107)	1446088	150.000	165.34
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	462436	150.000	139.91
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	383258	150.000	150.59
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	198833	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.921)	488547	150.000	157.63(M)
	72 trans-1,4-Dichloro-2-butene	53	9.374	9.377	(1.145)	97575	150.000	155.85
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	1635000	150.000	152.58
	74 Bromobenzene	156	9.317	9.317	(0.916)	397251	150.000	145.29
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	1177381	150.000	151.79
	76 2-Chlorotoluene	91	9.482	9.482	(0.933)	992742	150.000	150.83
	77 4-Chlorotoluene	91	9.572	9.576	(0.941)	1145588	150.000	148.90

78	tert-Butylbenzene	119	9.835	9.835 (0.967)	1029053	150.000	171.05(M)
79	1,2,4-Trimethylbenzene	105	9.876	9.876 (0.971)	1177305	150.000	151.29

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052910.D Page 3
Report Date: 07-Jun-2024 10:54

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
81	sec-Butylbenzene	105	10.022	10.022	(0.986)	1403849	150.000	171.93
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	1226585	150.000	172.39
83	1,3-Dichlorobenzene	146	10.112	10.116	(0.994)	683169	150.000	147.96(M)
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	720464	150.000	140.90
86	Benzyl Chloride	91	10.307	10.311	(1.259)	539443	150.000	153.49
87	n-Butylbenzene	91	10.491	10.491	(1.032)	1065723	150.000	152.68
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	678777	150.000	141.89(M)
89	1,2-Dibromo-3-Chloropropane	155	11.166	11.165	(1.098)	72928	150.000	151.79
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	486319	150.000	161.34
91	Hexachlorobutadiene	225	11.994	11.998	(1.180)	202483	150.000	167.42
92	Naphthalene	128	12.065	12.065	(1.187)	1179542	150.000	150.57
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	439273	150.000	156.43
146	Methyl acetate	43	2.712	2.708	(0.564)	330134	150.000	148.43
138	Freon TF	101	2.330	2.326	(0.484)	258556	150.000	152.29
141	Cyclohexane	56	4.782	4.778	(0.994)	441425	150.000	153.27
142	Tetrahydrofuran	42	4.542	4.542	(0.944)	130444	300.000	300.33
147	Methylcyclohexane	55	5.944	5.944	(1.071)	834322	150.000	152.36(A)
135	1,4-Dioxane	88	6.165	6.168	(1.281)	95387	3000.00	3093.07
132	n-Butanol	56	5.824	5.827	(1.210)	252429	3000.00	3345.82
136	n-Hexane	57	3.335	3.331	(0.693)	315804	150.000	154.00
139	Diethyl ether	59	2.143	2.139	(0.445)	240834	150.000	152.02
148	Tert-butyl alcohol	59	2.978	2.975	(0.619)	659260	3000.00	3004.53
149	Isopropyl alcohol	45	2.570	2.570	(0.534)	520251	3000.00	3002.62
152	Amyl alcohol	42	7.398	7.398	(0.904)	285246	3000.00	3072.56
156	Diisopropyl ether	45	3.619	3.619	(0.752)	1037671	150.000	145.11
162	Butyl acrylate	55	8.729	8.733	(1.066)	710720	150.000	153.96
187	n-Amyl acetate	43	8.928	8.931	(1.091)	645315	150.000	162.19
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	1529157	150.000	149.94
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	1039375	150.000	148.45
167	Ethanol	45	2.086	2.086	(0.434)	97976	3000.00	3003.09
172	tert-Butyl formate	59	5.246	5.250	(1.090)	725459	300.000	327.92(A)
173	3,3-Dimethyl-1-butanol	57	7.781	7.784	(0.951)	819478	3000.00	3213.17
174	tert-Amyl methyl ether	73	5.288	5.284	(1.099)	982790	150.000	149.97
175	tert-Butyl ethyl ether	59	4.051	4.047	(0.842)	947398	150.000	147.90
176	tert-Amyl alcohol	59	5.246	5.250	(1.090)	725459	3000.00	3241.53
151	4-Methyl-2-pentanol	45	7.218	7.222	(1.301)	2335055	3000.00	3080.56
140	1,3-Butadiene	54	1.400	1.396	(0.291)	167084	150.000	161.24
182	Epichlorohydrin	57	6.630	6.630	(1.195)	103901	600.000	599.87
M 94	1,2-Dichloroethylene (total)	96				675830	300.000	(a)
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	503336	150.000	151.40
130	Ethyl Acetate	43	4.339	4.339	(0.902)	375770	150.000	145.67
131	Methyl Acrylate	55	4.369	4.365	(0.908)	426664	150.000	152.77
189	n-Butyl acetate	43	7.702	7.702	(0.941)	626312	150.000	162.81
134	Cyclohexanone	55	9.153	9.152	(0.900)	367899	3000.00	3120.85
185	Isoprene	39	2.154	2.146	(0.448)	73860	150.000	152.00
188	Isopropyl acetate	43	5.284	5.284	(0.952)	1013065	150.000	152.09
150	Allyl alcohol	57	3.335	3.331	(0.693)	315804	3000.00	3080.10
194	Acetaldehyde	44	1.456	1.453	(0.303)	305993	600.000	604.15(M)
195	Methyl Amyl Ketone	43	8.868	8.868	(1.083)	762237	150.000	170.76
200	Dimethyl Disulfide	94	6.746	6.746	(0.824)	406307	150.000	159.80
202	Isobutylene	41	1.741	1.734	(0.362)	140148	150.000	147.48(M)
133	Ethyl Acrylate	55	5.944	5.944	(1.235)	834322	150.000	151.83

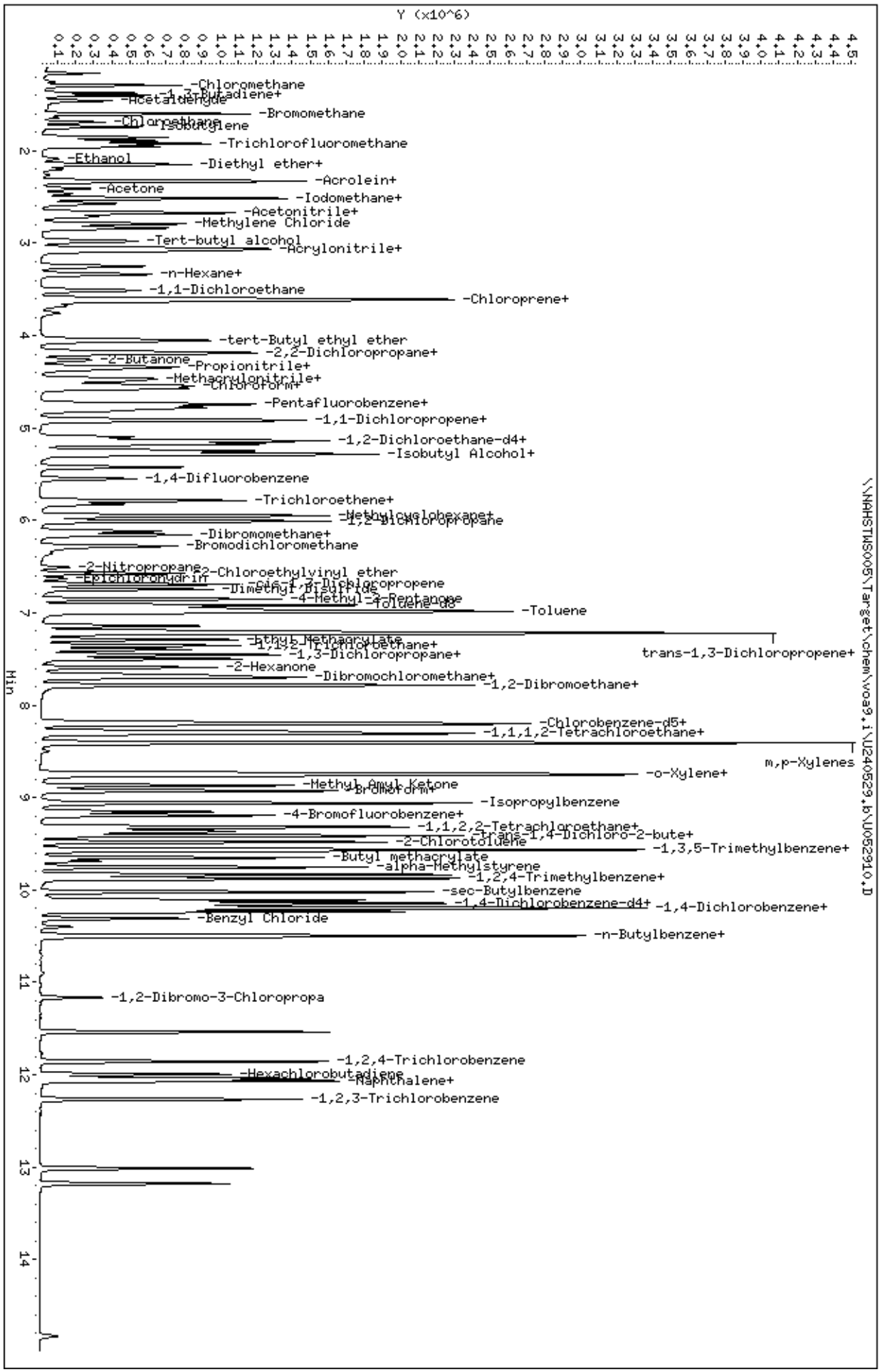
163 Butyl methacrylate	41	9.647	9.647 (0.949)	384255	150.000	167.01
159 Propylene oxide	43	2.199	2.191 (0.457)	51620	300.000	303.78(A)

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052910.D Page 4
Report Date: 07-Jun-2024 10:54

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	460688	150.000	149.55

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052910.D
Date : 29-MAY-2024 13:31
Client ID: VSTD150
Sample Info: VSTD150;VSTD150;1;9
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: FT
Column diameter: 0.18

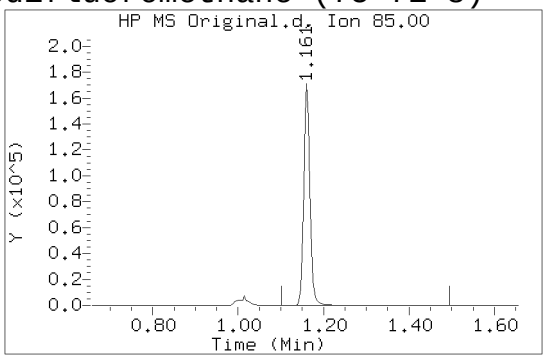
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Inj Date : 29-MAY-2024 13:31
InstruID : VOA9.i
LabSampID : VSTD150

Dichlorodifluoromethane (75-71-8)

Reason Code:

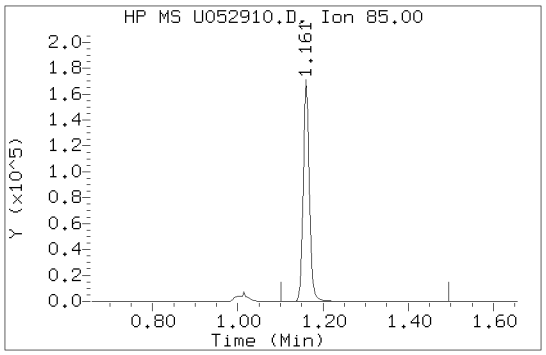
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zaid



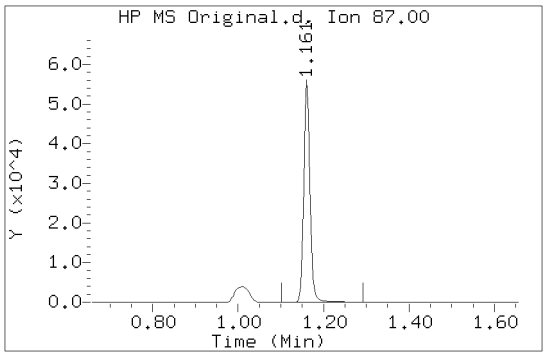
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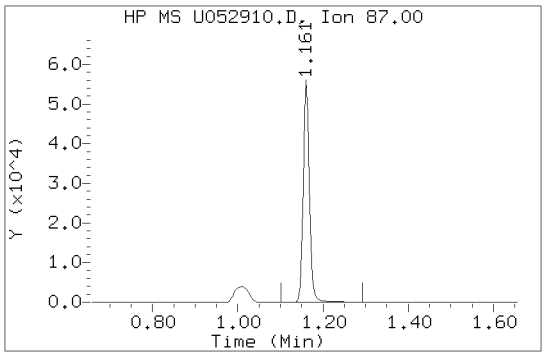
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AFTER

MASS
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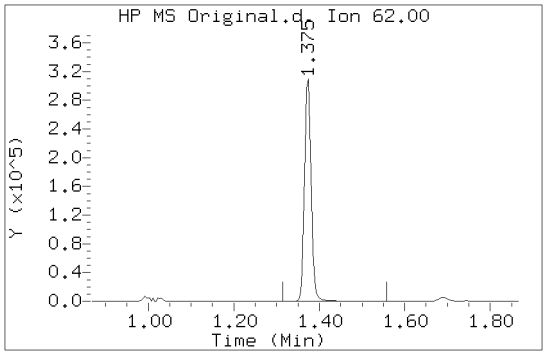


Vinyl Chloride (75-01-4)

Reason Code:

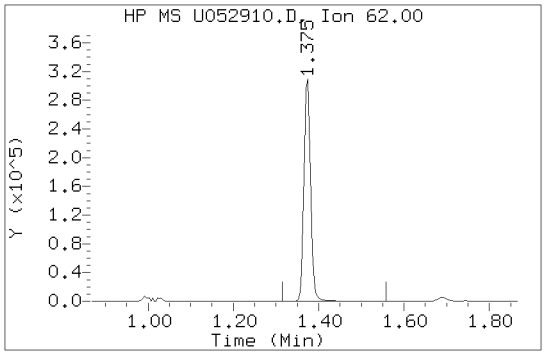
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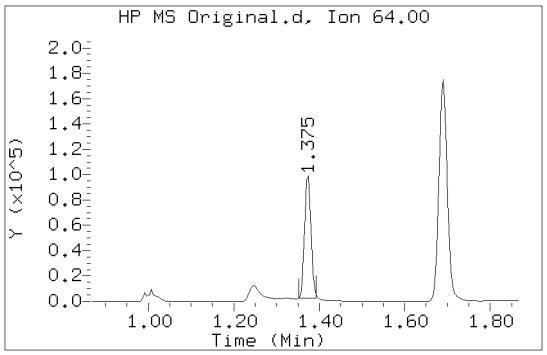
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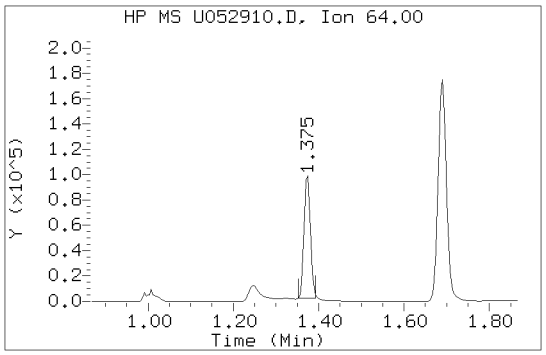
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AFTER

MASS
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07-Jun-2024
10:36

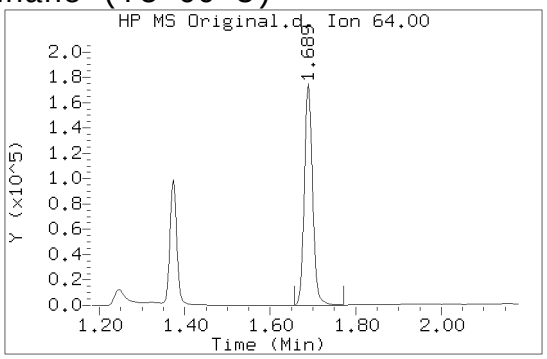


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Inj Date : 29-MAY-2024 13:31
InstruID : VOA9.i
LabSampID : VSTD150

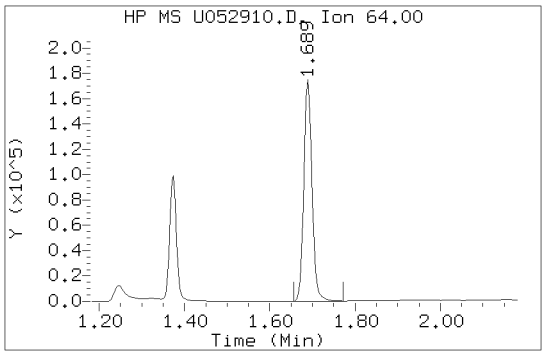
Chloroethane (75-00-3)

Reason Code:

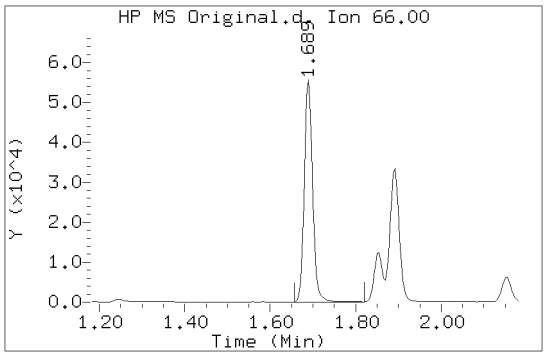
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s
zaid



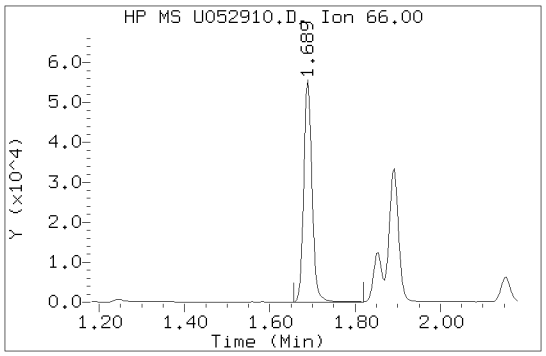
AFTER
MASS
64
AREA
238484
HEIGHT
174717
07-Jun-2024
10:36



BEFORE
MASS
66
AREA
76434
HEIGHT
55603
06-Jun-2024
17:10
s
zaid



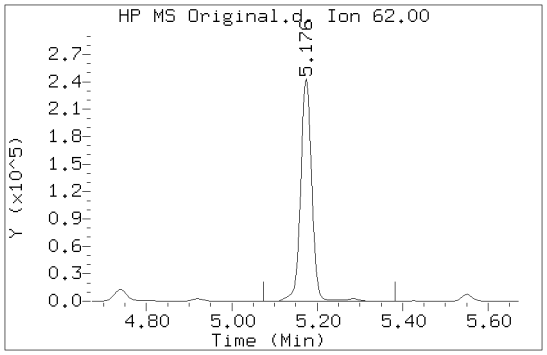
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66
AREA
76434
HEIGHT
55603
07-Jun-2024
10:36



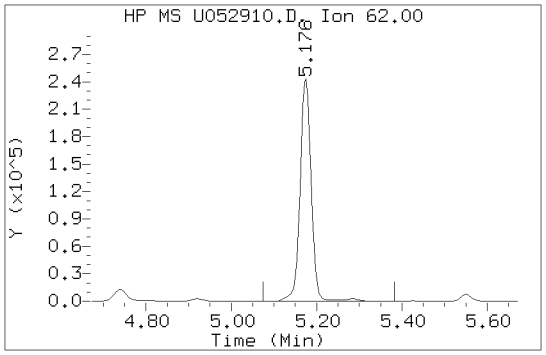
1,2-Dichloroethane (107-06-2)

Reason Code:

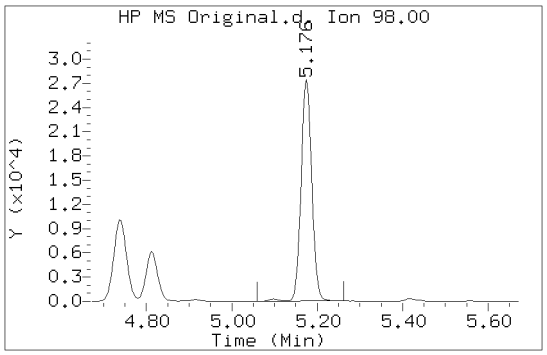
BEFORE
MASS
62
AREA
449209
HEIGHT
243088
06-Jun-2024
17:10
s
zaid



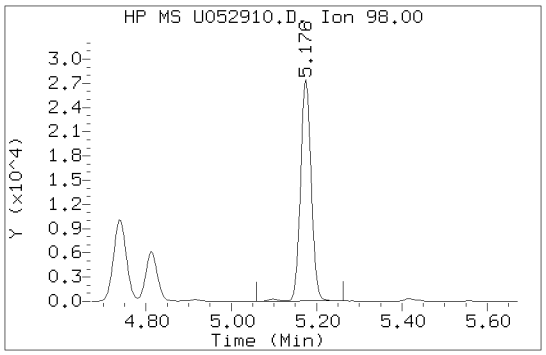
AFTER
MASS
62
AREA
449209
HEIGHT
243088
07-Jun-2024
10:36



BEFORE
MASS
98
AREA
48613
HEIGHT
27402
06-Jun-2024
17:10
s
zaid



AFTER
MASS
98
AREA
48613
HEIGHT
27402
07-Jun-2024
10:36

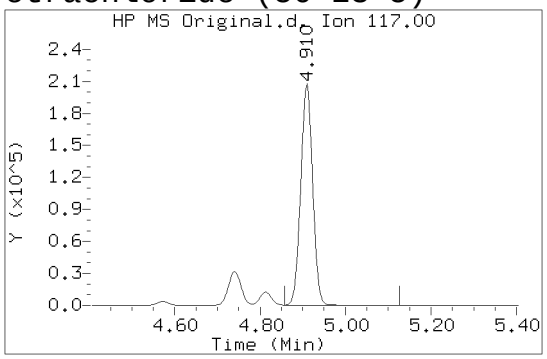


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Inj Date : 29-MAY-2024 13:31
InstruID : VOA9.i
LabSampID : VSTD150

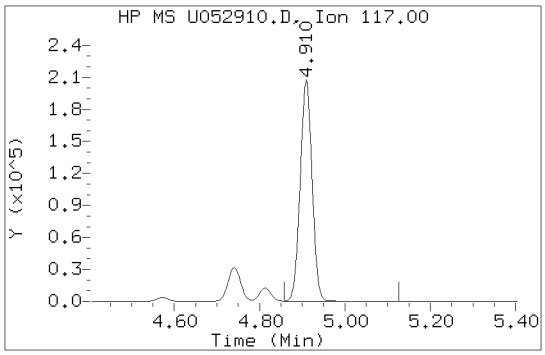
Carbon Tetrachloride (56-23-5)

Reason Code:

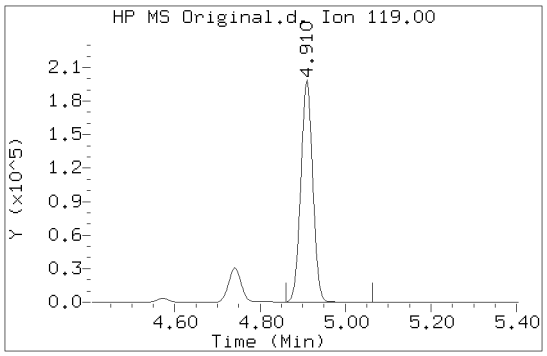
BEFORE
MASS
117
AREA
409418
HEIGHT
207671
06-Jun-2024
17:10
s
zaid



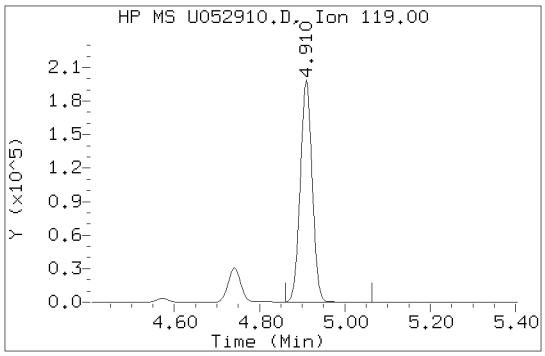
AFTER
MASS
117
AREA
409418
HEIGHT
207671
07-Jun-2024
10:36



BEFORE
MASS
119
AREA
392839
HEIGHT
198740
06-Jun-2024
17:10
s
zaid



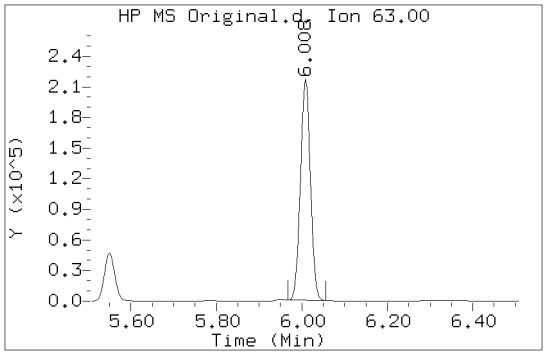
AFTER
MASS
119
AREA
392839
HEIGHT
198740
07-Jun-2024
10:36



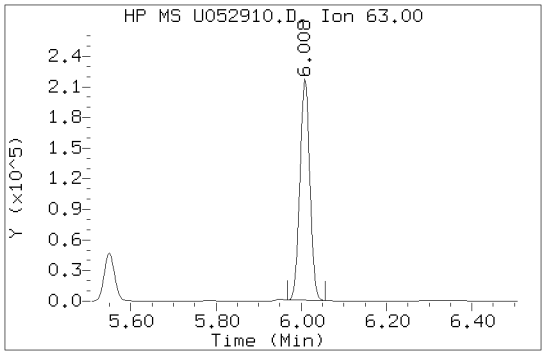
1,2-Dichloropropane (78-87-5)

Reason Code:

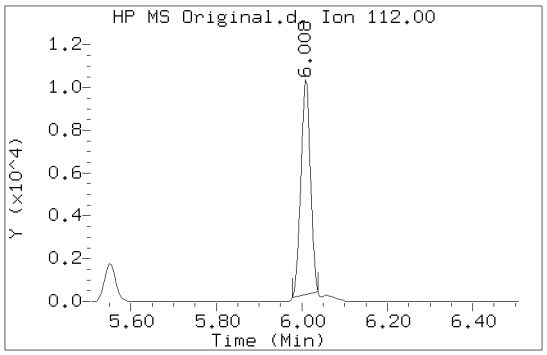
BEFORE
MASS
63
AREA
358971
HEIGHT
216933
06-Jun-2024
17:10
s
zaid



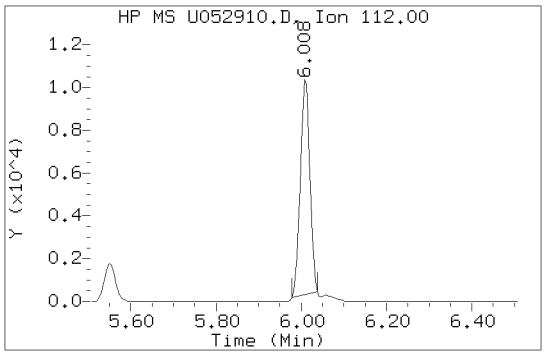
AFTER
MASS
63
AREA
358971
HEIGHT
216933
07-Jun-2024
10:36



BEFORE
MASS
112
AREA
15885
HEIGHT
10040
06-Jun-2024
17:10
s
zaid



AFTER
MASS
112
AREA
15885
HEIGHT
10040
07-Jun-2024
10:36

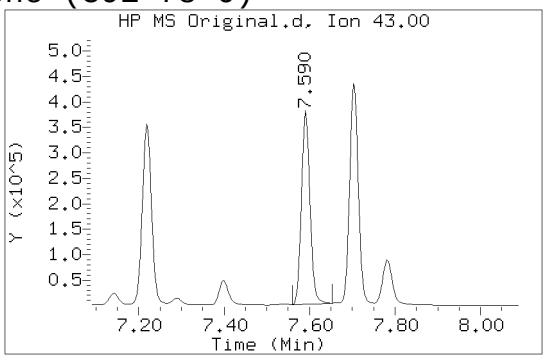


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Inj Date : 29-MAY-2024 13:31
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LabSampID : VSTD150

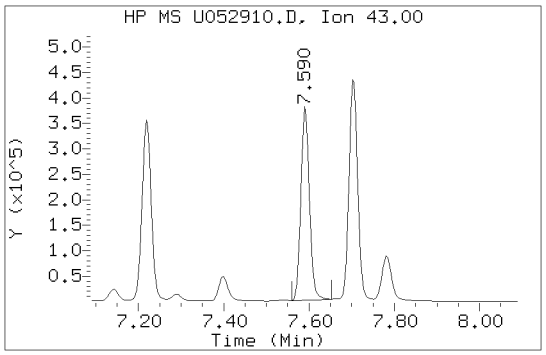
2-Hexanone (591-78-6)

Reason Code:

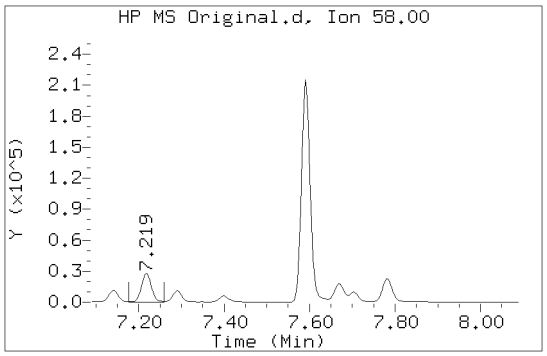
BEFORE
MASS
43
AREA
541778
HEIGHT
380028
06-Jun-2024
17:10
s
zaid



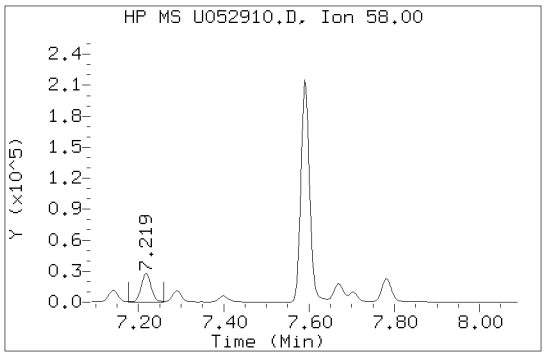
AFTER
MASS
43
AREA
541778
HEIGHT
380028
07-Jun-2024
10:36



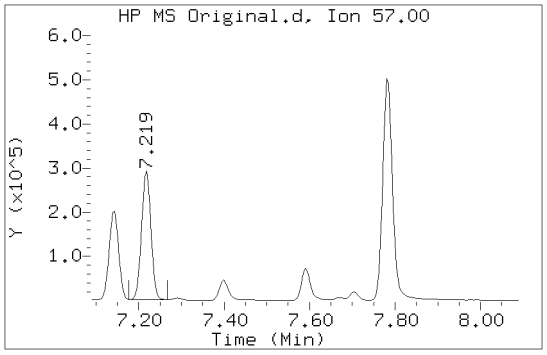
BEFORE
MASS
58
AREA
44771
HEIGHT
27958
06-Jun-2024
17:10
s
zaid



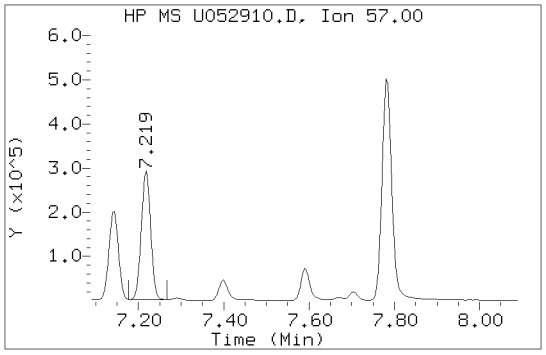
AFTER
MASS
58
AREA
44771
HEIGHT
27958
07-Jun-2024
10:36



BEFORE
MASS
57
AREA
445959
HEIGHT
292724
06-Jun-2024
17:10
s
zaid



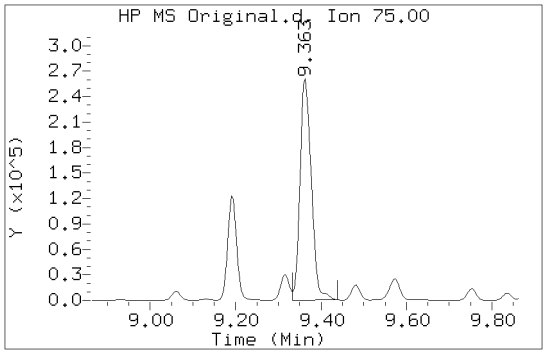
AFTER
MASS
57
AREA
445959
HEIGHT
292724
07-Jun-2024
10:36



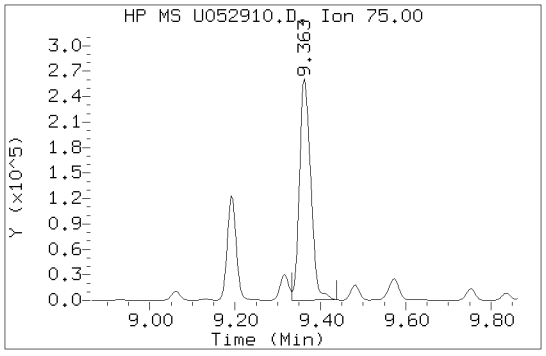
1,2,3-Trichloropropane (96-18-4)

Reason Code:

BEFORE
MASS
75
AREA
488547
HEIGHT
260819
06-Jun-2024
17:10
s
zaid



AFTER
MASS
75
AREA
488547
HEIGHT
260819
07-Jun-2024
10:36

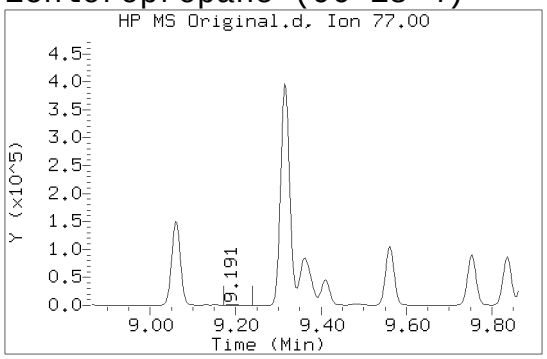


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Inj Date : 29-MAY-2024 13:31
InstruID : VOA9.i
LabSampID : VSTD150

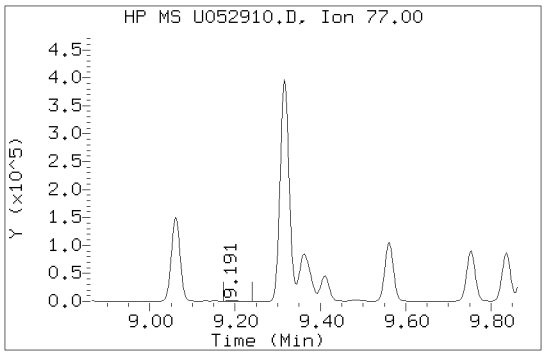
1,2,3-Trichloropropane (96-18-4)

Reason Code:

BEFORE
MASS
77
AREA
2652
HEIGHT
1650
06-Jun-2024
17:10
s
zaid



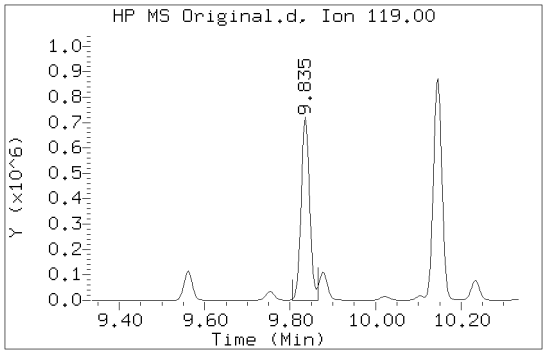
AFTER
MASS
77
AREA
2652
HEIGHT
1650
07-Jun-2024
10:36



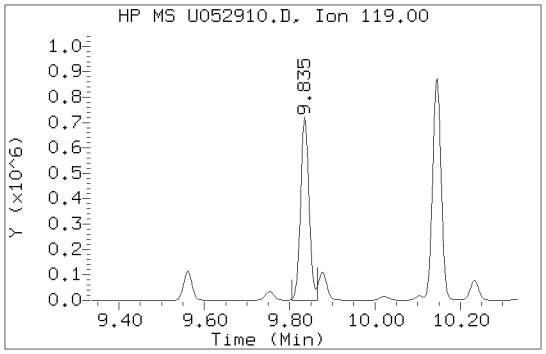
tert-Butylbenzene (98-06-6)

Reason Code:

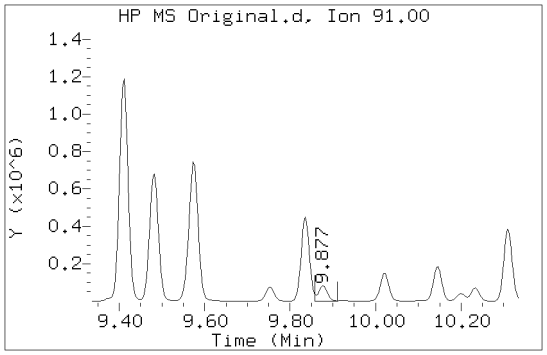
BEFORE
MASS
119
AREA
1029053
HEIGHT
721919
06-Jun-2024
17:10
s
zaid



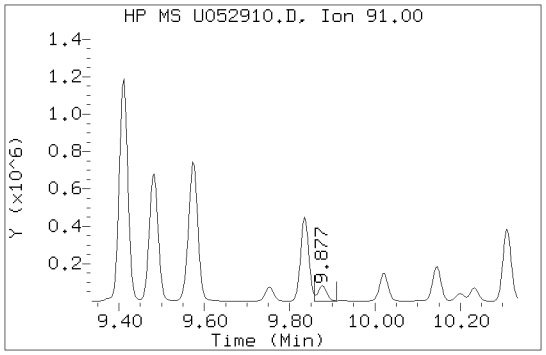
AFTER
MASS
119
AREA
1029053
HEIGHT
721919
07-Jun-2024
10:36



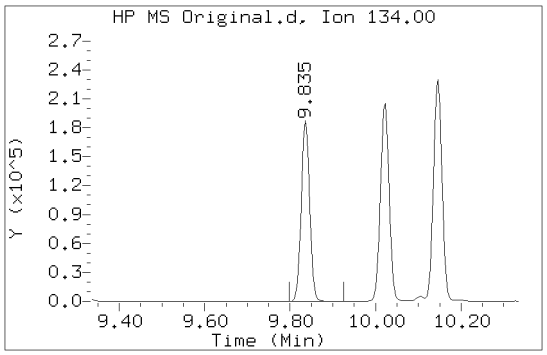
BEFORE
MASS
91
AREA
122517
HEIGHT
82317
06-Jun-2024
17:10
s
zaid



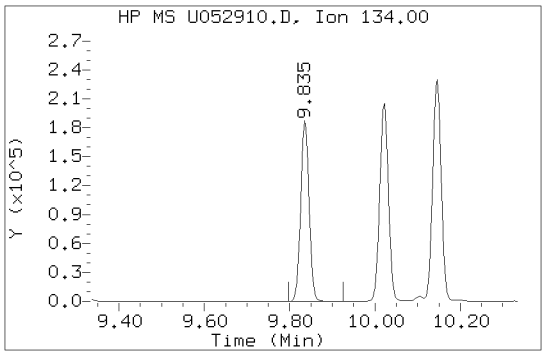
AFTER
MASS
91
AREA
122517
HEIGHT
82317
07-Jun-2024
10:36



BEFORE
MASS
134
AREA
261443
HEIGHT
187264
06-Jun-2024
17:10
s
zaid



AFTER
MASS
134
AREA
261443
HEIGHT
187264
07-Jun-2024
10:36

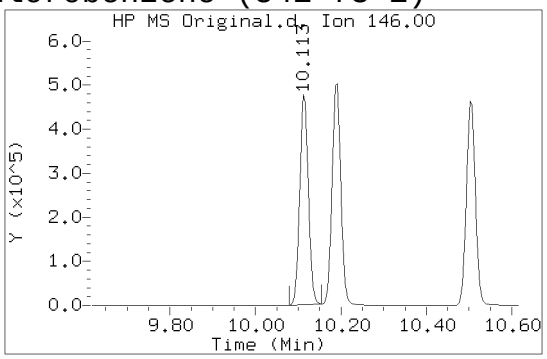


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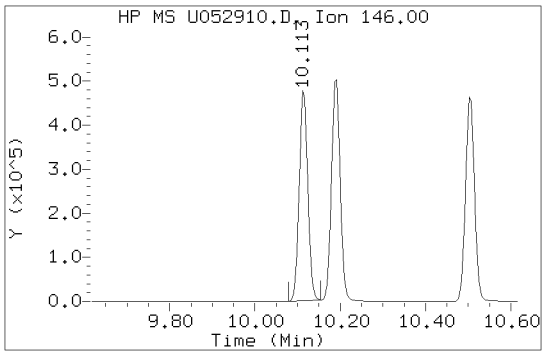
1,3-Dichlorobenzene (541-73-1)

Reason Code:

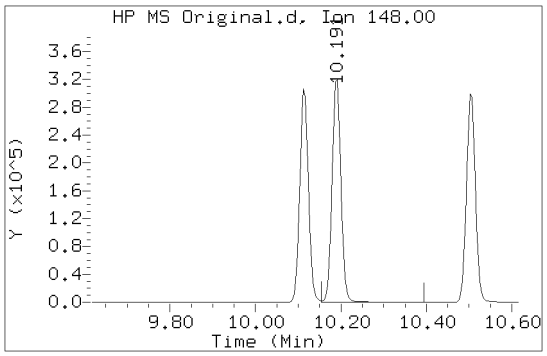
BEFORE
MASS
146
AREA
683169
HEIGHT
477469
06-Jun-2024
17:10
s
zaid



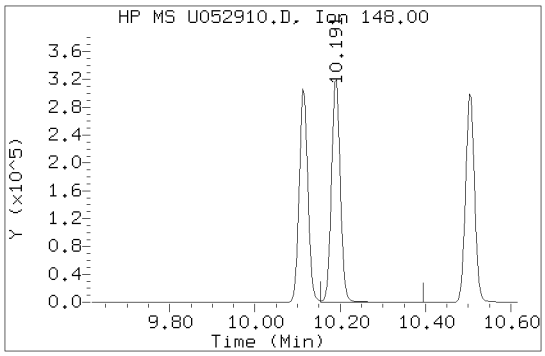
AFTER
MASS
146
AREA
683169
HEIGHT
477469
07-Jun-2024
10:36



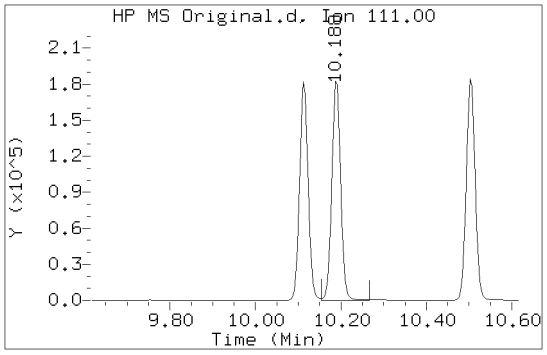
BEFORE
MASS
148
AREA
460100
HEIGHT
319245
06-Jun-2024
17:10
s
zaid



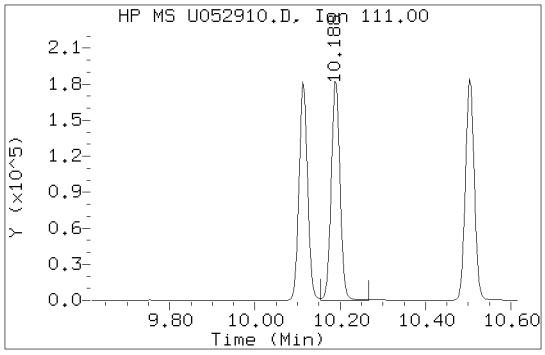
AFTER
MASS
148
AREA
460100
HEIGHT
319245
07-Jun-2024
10:36



BEFORE
MASS
111
AREA
261922
HEIGHT
182394
06-Jun-2024
17:10
s
zaid



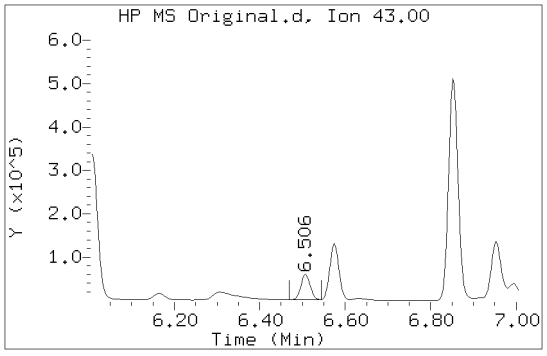
AFTER
MASS
111
AREA
261922
HEIGHT
182394
07-Jun-2024
10:36



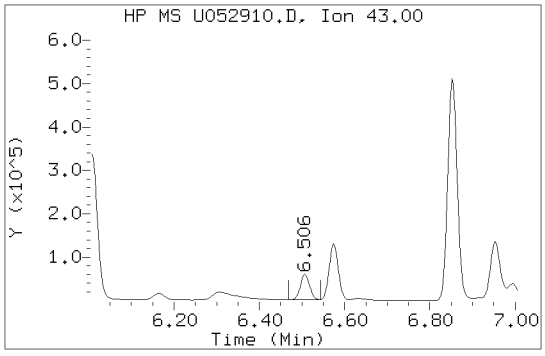
2-Nitropropane (79-46-9)

Reason Code:

BEFORE
MASS
43
AREA
89884
HEIGHT
58675
06-Jun-2024
17:10
s
zaid



AFTER
MASS
43
AREA
89884
HEIGHT
58675
07-Jun-2024
10:36



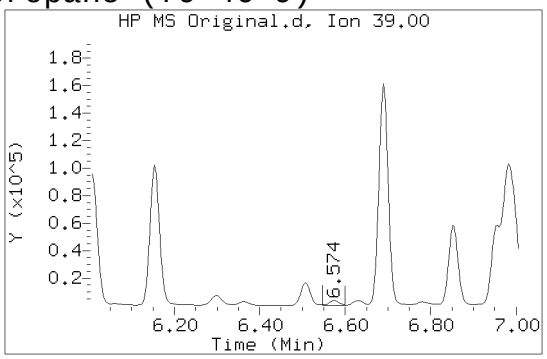
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052910.D
Inj Date : 29-MAY-2024 13:31
InstruID : VOA9.i
LabSampID : VSTD150

2-Nitropropane (79-46-9)

Reason Code:

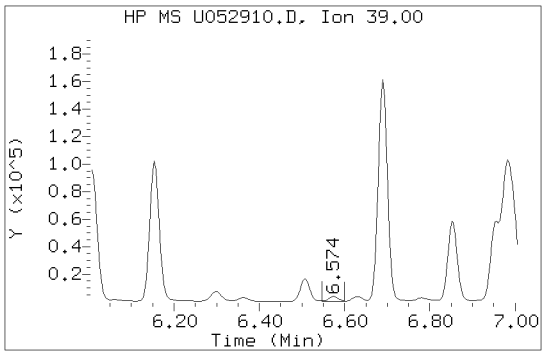
BEFORE

MASS
39
AREA
5059
HEIGHT
3450
06-Jun-2024
17:10
s
zaid



AFTER

MASS
39
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5059
HEIGHT
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07-Jun-2024
10:36

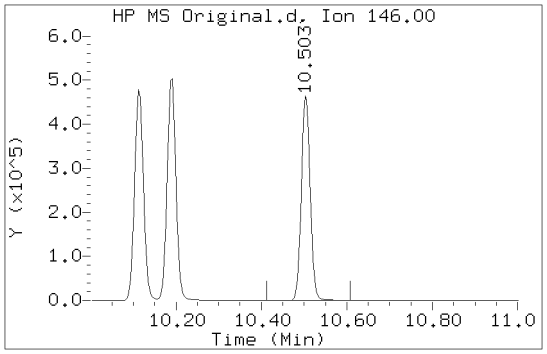


1,2-Dichlorobenzene (95-50-1)

Reason Code:

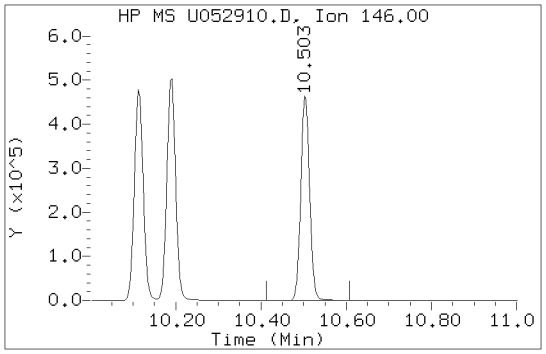
BEFORE

MASS
146
AREA
678777
HEIGHT
464251
06-Jun-2024
17:10
s
zaid



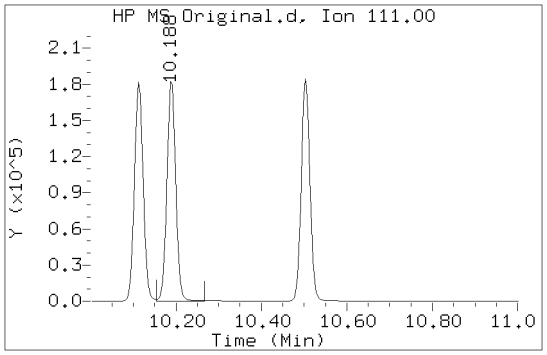
AFTER

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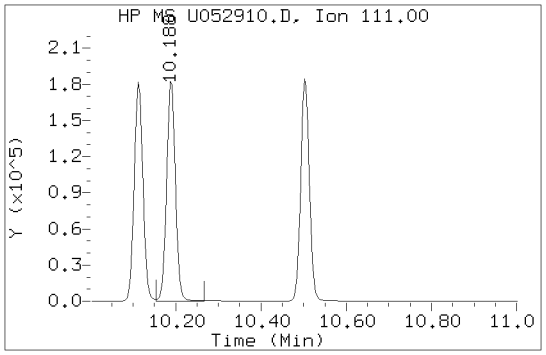
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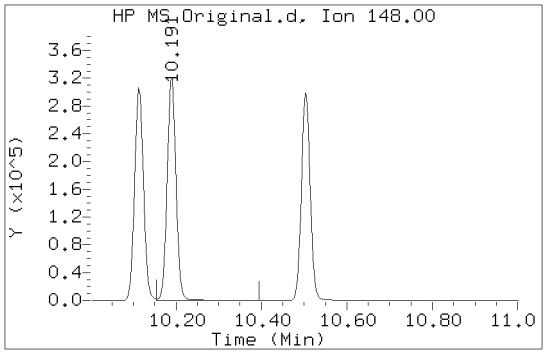
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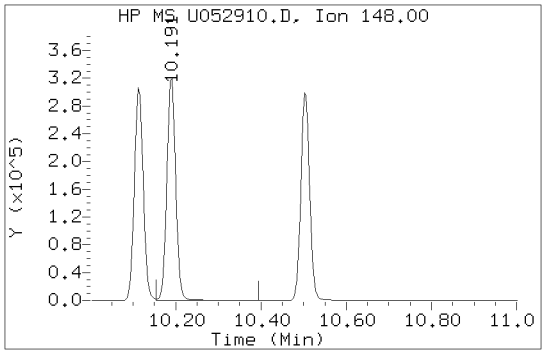
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AFTER

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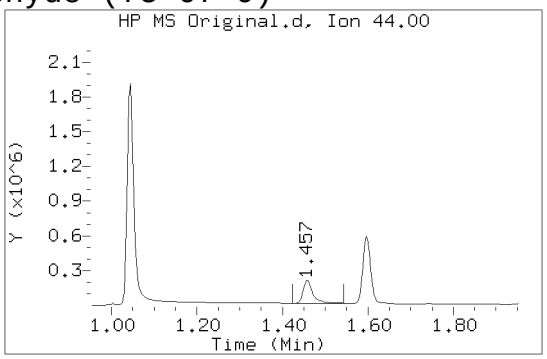


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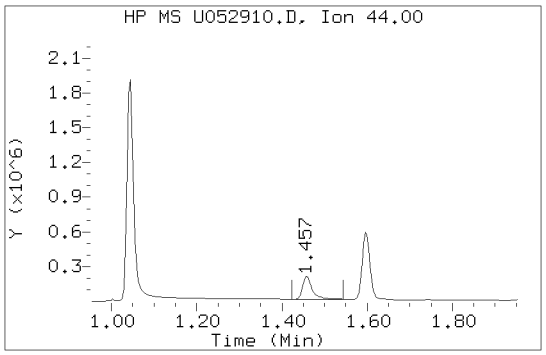
Acetaldehyde (75-07-0)

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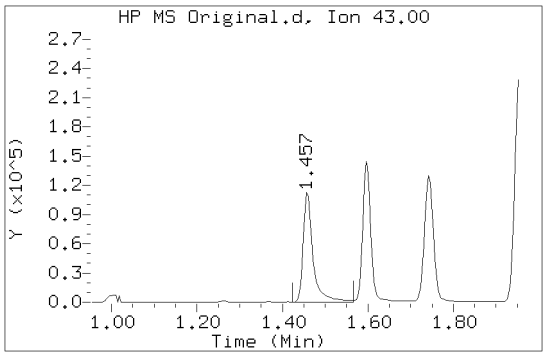
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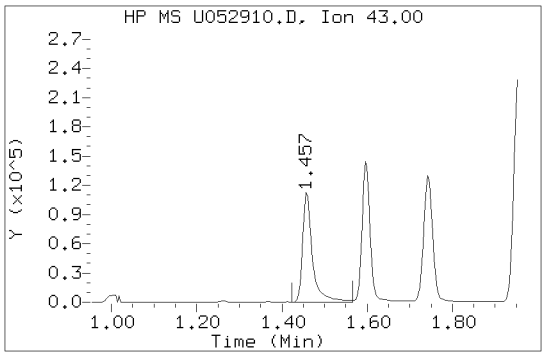
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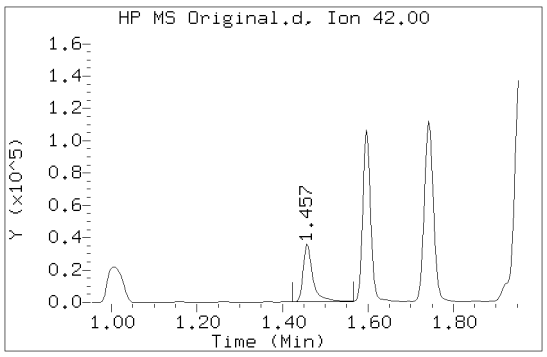
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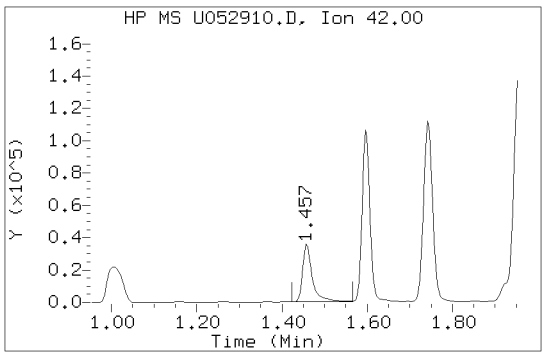
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BEFORE
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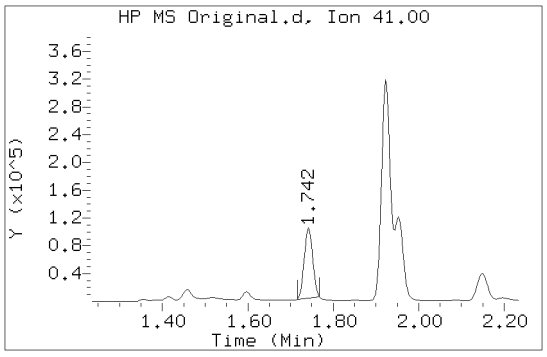
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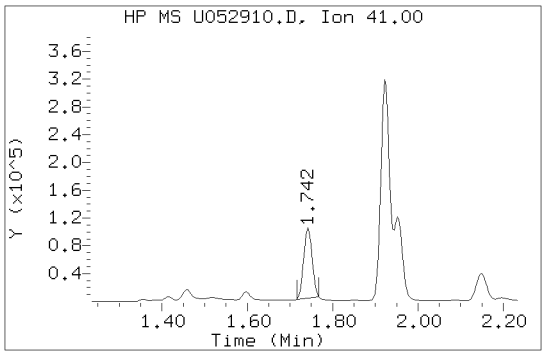
Isobutylene (115-11-7)

Reason Code:

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zaid



AFTER
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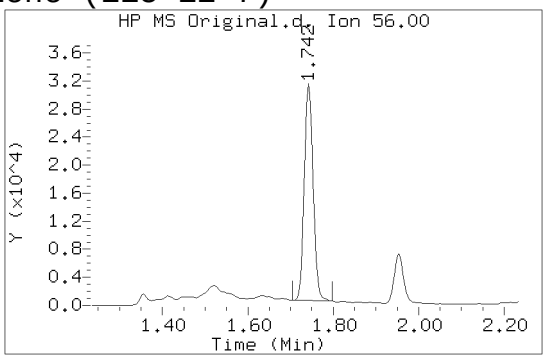
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Inj Date : 29-MAY-2024 13:31
InstruID : VOA9.i
LabSampID : VSTD150

Isobutylene (115-11-7)

Reason Code:

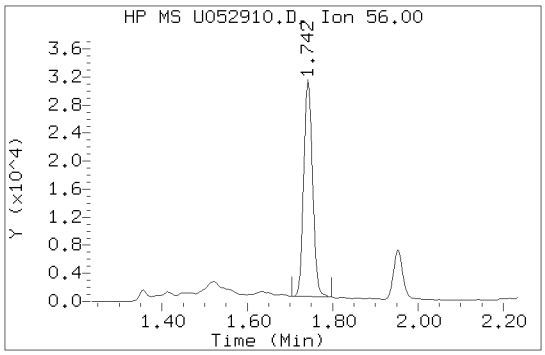
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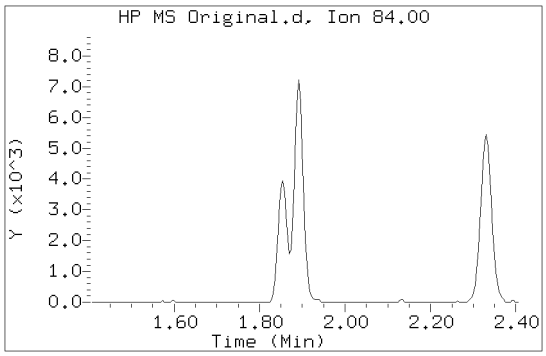
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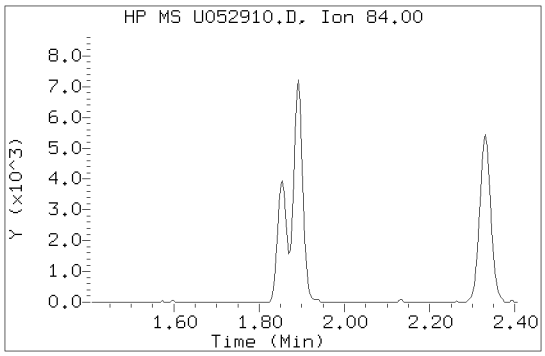
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AFTER

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HEIGHT
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07-Jun-2024
10:36



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052911.D Page 1
Report Date: 07-Jun-2024 10:54

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052911.D
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Inj Date : 29-MAY-2024 13:53
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD200;VSTD200;1;10
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240529.b\8260C.m
Meth Date : 07-Jun-2024 10:14 r.patel Quant Type: ISTD
Cal Date : 29-MAY-2024 13:53 Cal File: U052911.D
Als bottle: 11 Calibration Sample, Level: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.811	4.811	(1.000)	273486	50.0000	
2	Dichlorodifluoromethane	85	1.156	1.156	(0.240)	240139	200.000	235.53(AM)
3	Chloromethane	50	1.288	1.288	(0.268)	716916	200.000	198.72
4	Propionitrile	54	4.339	4.339	(0.902)	679011	2000.00	1933.72
5	Vinyl Chloride	62	1.366	1.366	(0.284)	452378	200.000	219.04(AM)
6	Bromomethane	94	1.595	1.595	(0.332)	177922	200.000	203.09(A)
7	Chloroethane	64	1.681	1.681	(0.350)	317922	200.000	199.41(M)
8	Trichlorofluoromethane	101	1.884	1.884	(0.392)	564354	200.000	230.11(A)
9	Acrolein	56	2.259	2.259	(0.469)	45520	400.000	398.16
10	Acetone	43	2.405	2.405	(0.500)	309961	400.000	391.23
11	1,1-Dichloroethene	96	2.322	2.322	(0.483)	387075	200.000	214.69(A)
12	Isobutyl Alcohol	43	5.284	5.284	(1.098)	1572359	4000.00	4015.41(A)
13	Acetonitrile	39	2.663	2.663	(0.554)	473485	2000.00	2134.30(A)
14	Allyl Chloride	41	2.667	2.667	(0.554)	1175804	200.000	199.30
16	Acrylonitrile	53	3.061	3.061	(0.636)	334027	400.000	398.44
17	Methylene Chloride	84	2.783	2.783	(0.579)	442243	200.000	199.76
18	Methyl tert-butyl ether	73	3.076	3.076	(0.639)	1108713	200.000	199.38
19	Carbon Disulfide	76	2.510	2.510	(0.522)	2224092	400.000	439.76(A)
20	trans-1,2-Dichloroethene	96	3.050	3.050	(0.634)	411268	200.000	201.73(A)
21	Vinyl Acetate	43	4.339	4.339	(0.902)	509527	400.000	422.76(A)
22	1,1-Dichloroethane	63	3.507	3.507	(0.729)	756265	200.000	193.10

23 Chloroprene	53	3.601	3.601 (0.748)	634213	200.000	220.85(A)
24 2-Butanone	43	4.260	4.260 (0.885)	492027	400.000	402.58(A)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	25 Methacrylonitrile	41	4.489	4.489	(0.933)	294600	200.000	200.43(aA)
	26 2,2-Dichloropropane	77	4.174	4.174	(0.868)	590088	200.000	229.56(A)
	27 cis-1,2-Dichloroethene	96	4.189	4.189	(0.871)	496347	200.000	197.13
	28 Chloroform	83	4.568	4.568	(0.949)	770700	200.000	197.09
	29 Bromochloromethane	128	4.463	4.463	(0.928)	234915	200.000	201.86(A)
$	30 Dibromofluoromethane	113	4.744	4.744	(0.986)	379603	200.000	199.45
	31 1,1,1-Trichloroethane	97	4.736	4.736	(0.984)	650668	200.000	237.61(A)
	32 1,1-Dichloropropene	75	4.916	4.916	(0.886)	618506	200.000	216.15(A)
	33 1,2-Dichloroethane	62	5.171	5.171	(0.932)	601098	200.000	202.61(AM)
	34 Carbon Tetrachloride	117	4.905	4.905	(0.884)	553905	200.000	247.11(AM)
$	35 1,2-Dichloroethane-d4	65	5.093	5.093	(1.058)	430320	200.000	203.40(A)
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	395068	50.0000	
	37 Benzene	78	5.134	5.134	(0.925)	1809175	200.000	194.42
	38 Trichloroethene	130	5.786	5.786	(1.043)	479731	200.000	209.46(A)
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	574423	200.000	229.51(A)
	40 Methyl Methacrylate	41	5.827	5.827	(1.211)	224325	200.000	198.48
	41 2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	444756	400.000	397.38
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	481859	200.000	196.33(M)
	43 2-Nitropropane	43	6.506	6.506	(1.352)	122639	200.000	197.57(M)
	44 Dibromomethane	93	6.116	6.116	(1.102)	287456	200.000	201.69(A)
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	1077867	400.000	399.19
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	770716	200.000	199.25
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	363359	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.845)	1400146	200.000	201.45(A)
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	685626	200.000	224.36
	50 Toluene	91	6.978	6.978	(0.853)	1863205	200.000	188.90
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	644492	200.000	199.02
	52 2-Hexanone	43	7.589	7.589	(0.927)	725984	400.000	396.79(M)
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	360962	200.000	199.96
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	785403	200.000	195.49
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	481854	200.000	199.34
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	377192	200.000	218.96(A)
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	445120	200.000	205.20(A)
	58 1-Chlorohexane	55	8.196	8.196	(1.477)	389857	200.000	197.68
	59 Chlorobenzene	112	8.208	8.208	(1.003)	1204687	200.000	192.36
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	447071	200.000	223.71(A)
	61 Ethylbenzene	106	8.305	8.305	(1.015)	633308	200.000	199.00
	62 m,p-Xylenes	106	8.406	8.406	(1.027)	1591481	400.000	397.68
	63 o-Xylene	106	8.744	8.744	(1.068)	767838	200.000	201.91(A)
	64 Styrene	104	8.759	8.759	(1.070)	1296564	200.000	215.58(A)
	66 Bromoform	173	8.916	8.916	(1.089)	335082	200.000	198.89
	67 Isopropylbenzene	105	9.059	9.059	(1.107)	1919426	200.000	221.31(A)
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	626510	200.000	194.34
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	508465	200.000	201.51(A)
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	193941	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.921)	680533	200.000	225.11(AM)
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	145932	200.000	235.06(A)
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	2181629	200.000	208.73(A)
	74 Bromobenzene	156	9.317	9.317	(0.916)	533475	200.000	200.04(A)
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	1562083	200.000	199.31
	76 2-Chlorotoluene	91	9.482	9.482	(0.933)	1326171	200.000	199.80
	77 4-Chlorotoluene	91	9.576	9.576	(0.942)	1529143	200.000	203.77(A)

78	tert-Butylbenzene	119	9.835	9.835 (0.967)	1330175	200.000	226.68(AM)
79	1,2,4-Trimethylbenzene	105	9.876	9.876 (0.971)	1562562	200.000	199.47

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
81	sec-Butylbenzene	105	10.022	10.022	(0.986)	1832877	200.000	230.14(A)
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	1612563	200.000	232.35(A)
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.995)	912530	200.000	202.62(AM)
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	950730	200.000	190.62
86	Benzyl Chloride	91	10.311	10.311	(1.260)	763055	200.000	198.43
87	n-Butylbenzene	91	10.491	10.491	(1.032)	1416365	200.000	198.86
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	905419	200.000	194.04(M)
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	101593	200.000	199.30
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	647239	200.000	220.14(A)
91	Hexachlorobutadiene	225	11.998	11.998	(1.180)	267749	200.000	226.97(A)
92	Naphthalene	128	12.065	12.065	(1.187)	1590132	200.000	199.78
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	590267	200.000	215.51(A)
146	Methyl acetate	43	2.708	2.708	(0.563)	440647	200.000	202.79(A)
138	Freon TF	101	2.326	2.326	(0.483)	345384	200.000	199.05
141	Cyclohexane	56	4.778	4.778	(0.993)	587963	200.000	198.59
142	Tetrahydrofuran	42	4.542	4.542	(0.944)	176496	400.000	393.91
147	Methylcyclohexane	55	5.944	5.944	(1.071)	1129810	200.000	198.98(A)
135	1,4-Dioxane	88	6.168	6.168	(1.282)	124297	4000.00	3960.62
132	n-Butanol	56	5.827	5.827	(1.211)	344749	4000.00	4679.39(A)
136	n-Hexane	57	3.331	3.331	(0.692)	415342	200.000	198.20
139	Diethyl ether	59	2.139	2.139	(0.445)	323193	200.000	199.31
148	Tert-butyl alcohol	59	2.975	2.975	(0.618)	891426	4000.00	3823.51
149	Isopropyl alcohol	45	2.570	2.570	(0.534)	696757	4000.00	3786.17
152	Amyl alcohol	42	7.398	7.398	(0.904)	393449	4000.00	3968.16
156	Diisopropyl ether	45	3.619	3.619	(0.752)	1369453	200.000	196.11
162	Butyl acrylate	55	8.733	8.733	(1.067)	999143	200.000	198.36
187	n-Amyl acetate	43	8.931	8.931	(1.091)	900081	200.000	228.13(A)
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	2038579	200.000	204.94(A)
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	1391506	200.000	203.49(A)
167	Ethanol	45	2.086	2.086	(0.434)	131668	4000.00	3782.12
172	tert-Butyl formate	59	5.250	5.250	(1.091)	998672	400.000	462.28(A)
173	3,3-Dimethyl-1-butanol	57	7.784	7.784	(0.951)	1119804	4000.00	4427.71(A)
174	tert-Amyl methyl ether	73	5.284	5.284	(1.098)	1335807	200.000	208.74(A)
175	tert-Butyl ethyl ether	59	4.047	4.047	(0.841)	1281509	200.000	204.87(A)
176	tert-Amyl alcohol	59	5.250	5.250	(1.091)	998672	4000.00	4569.65(A)
151	4-Methyl-2-pentanol	45	7.222	7.222	(1.301)	3204773	4000.00	3966.68
140	1,3-Butadiene	54	1.396	1.396	(0.290)	226619	200.000	223.95(A)
182	Epichlorohydrin	57	6.630	6.630	(1.195)	144892	800.000	739.62
M 94	1,2-Dichloroethylene (total)	96				907615	400.000	(a)
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	677516	200.000	199.43
130	Ethyl Acetate	43	4.339	4.339	(0.902)	509527	200.000	202.27(A)
131	Methyl Acrylate	55	4.365	4.365	(0.907)	566657	200.000	198.87
189	n-Butyl acetate	43	7.702	7.702	(0.941)	866187	200.000	227.07(A)
134	Cyclohexanone	55	9.152	9.152	(0.900)	459191	4000.00	3937.53
185	Isoprene	39	2.146	2.146	(0.446)	98636	200.000	199.04
188	Isopropyl acetate	43	5.284	5.284	(0.952)	1268855	200.000	193.56(M)
150	Allyl alcohol	57	3.331	3.331	(0.692)	415342	4000.00	3964.14
194	Acetaldehyde	44	1.453	1.453	(0.302)	417509	800.000	798.73(M)
195	Methyl Amyl Ketone	43	8.868	8.868	(1.083)	1025936	200.000	231.77
200	Dimethyl Disulfide	94	6.746	6.746	(0.824)	618005	200.000	196.44
202	Isobutylene	41	1.734	1.734	(0.360)	201782	200.000	200.66(AM)
133	Ethyl Acrylate	55	5.944	5.944	(1.235)	1129810	200.000	199.19

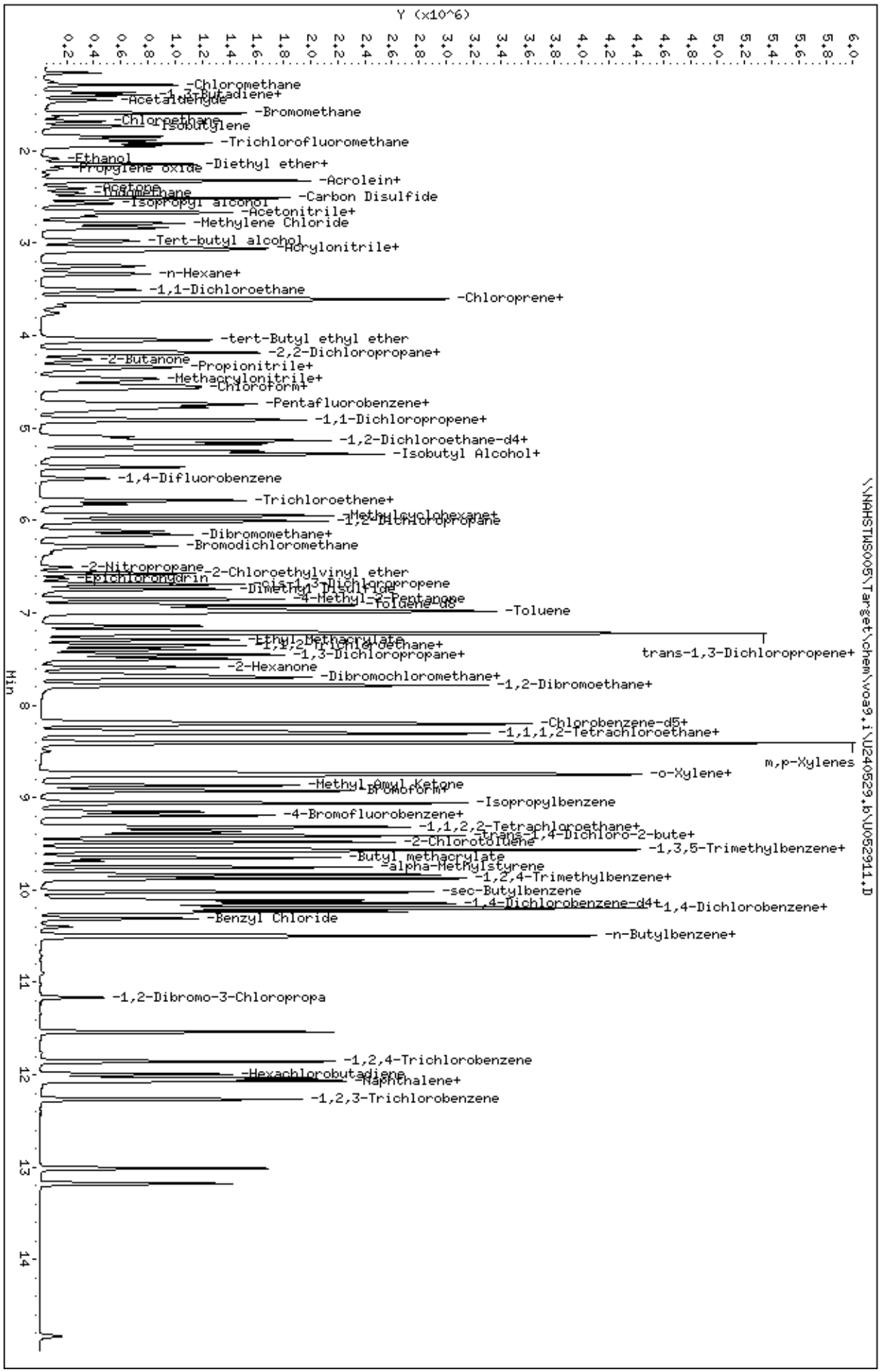
163 Butyl methacrylate	41	9.647	9.647 (0.949)	536821	200.000	239.21(A)
159 Propylene oxide	43	2.191	2.191 (0.455)	68450	400.000	398.51(A)

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052911.D Page 4
Report Date: 07-Jun-2024 10:54

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	626320	200.000	183.58

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052911.D
Date : 29-MAY-2024 13:53
Client ID: VSTD200
Sample Info: VSTD200;VSTD200;1;10
Purge Volume: 5.0
Column phase: DB624

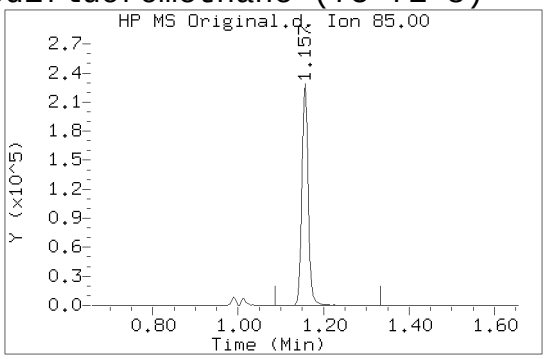
Instrument: VOA9.i
Operator: FT
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052911.D
Inj Date : 29-MAY-2024 13:53
InstruID : VOA9.i
LabSampID : VSTD200

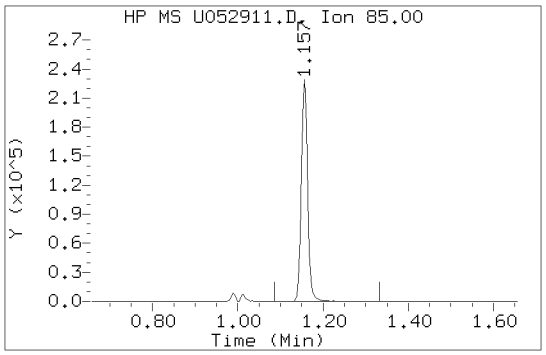
Dichlorodifluoromethane (75-71-8)

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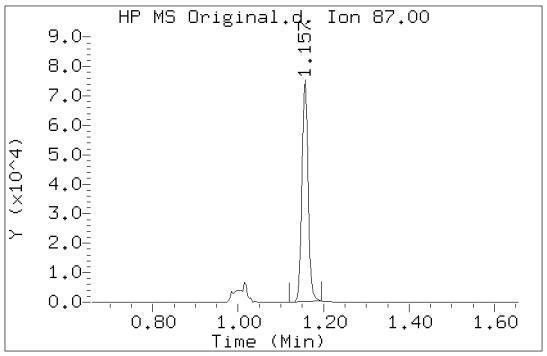
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HEIGHT
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06-Jun-2024
17:16
s
zaid



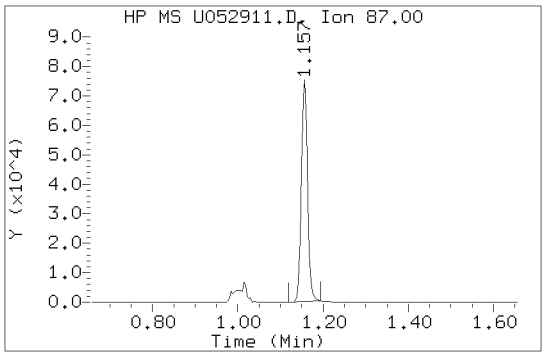
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BEFORE
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06-Jun-2024
17:16
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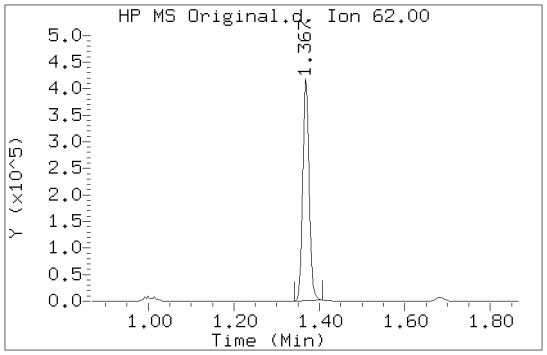
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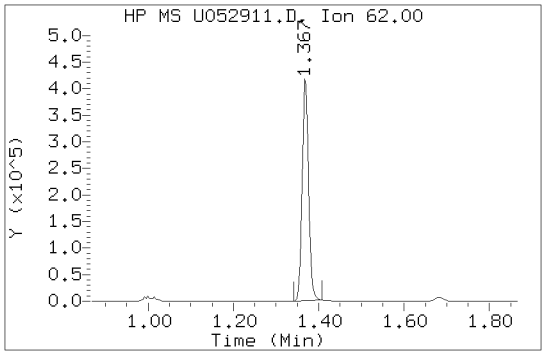
Vinyl Chloride (75-01-4)

Reason Code:

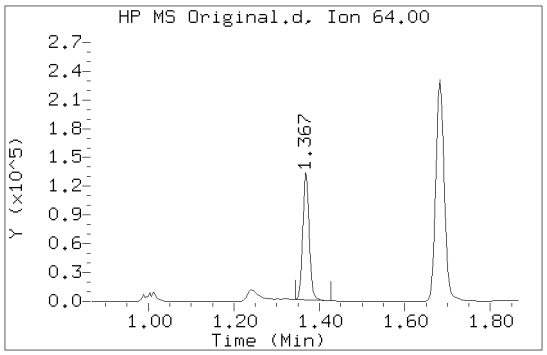
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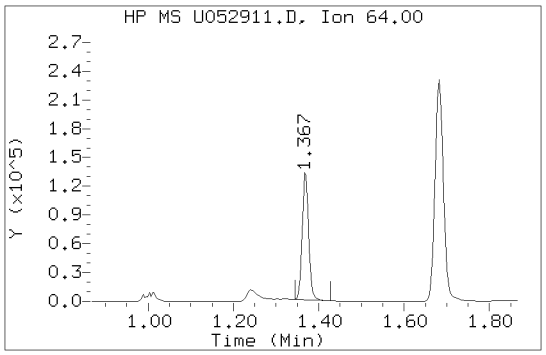
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10:36



BEFORE
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AREA
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HEIGHT
132455
06-Jun-2024
17:16
s
zaid



AFTER
MASS
64
AREA
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HEIGHT
132455
07-Jun-2024
10:36



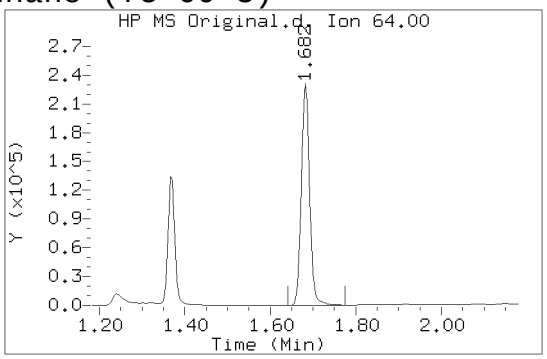
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Inj Date : 29-MAY-2024 13:53
InstruID : VOA9.i
LabSampID : VSTD200

Chloroethane (75-00-3)

Reason Code:

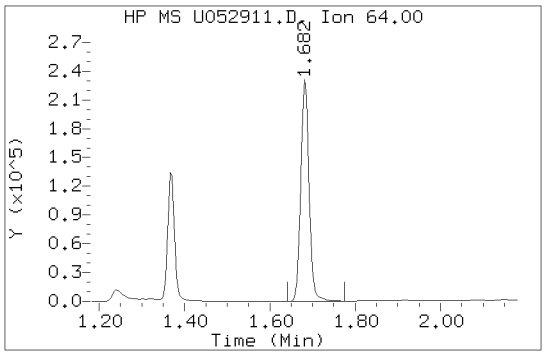
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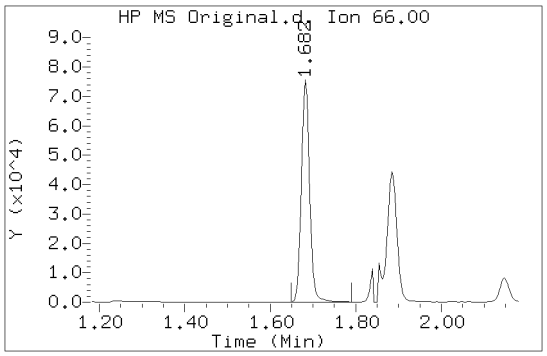
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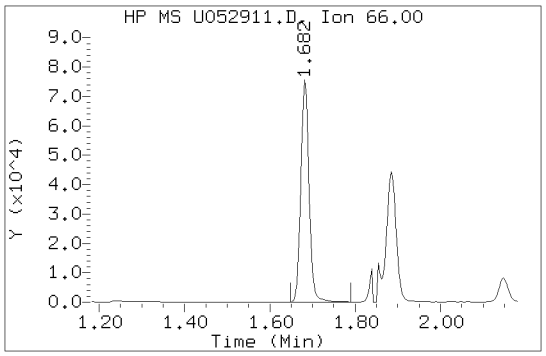
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AFTER

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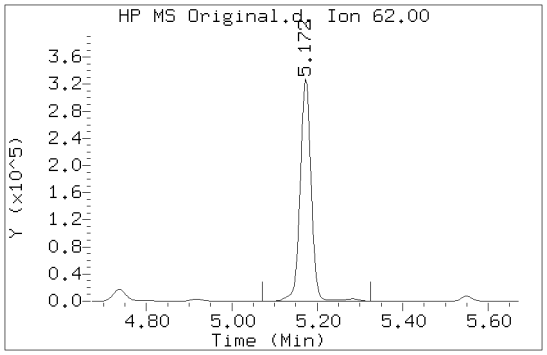


1,2-Dichloroethane (107-06-2)

Reason Code:

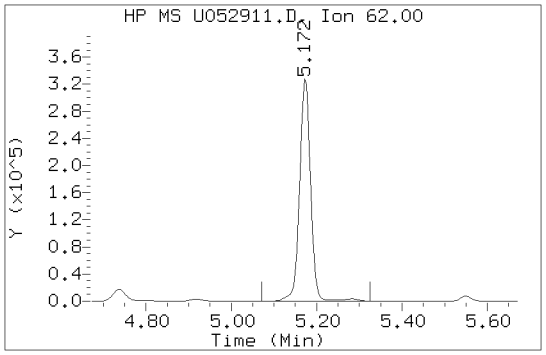
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06-Jun-2024
17:16
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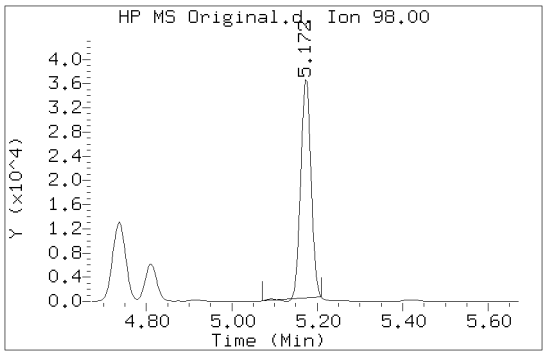
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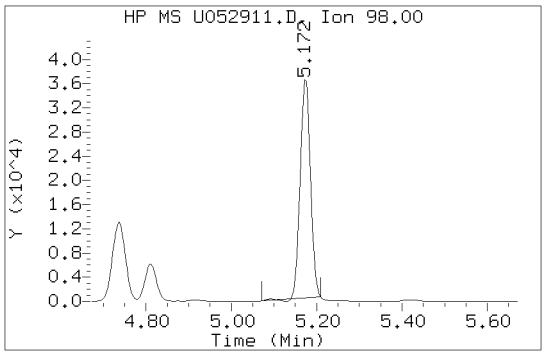
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AFTER

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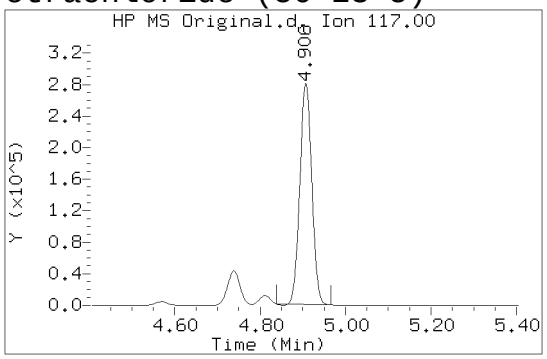


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InstruID : VOA9.i
LabSampID : VSTD200

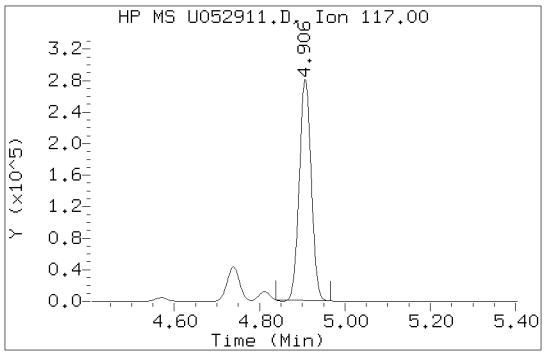
Carbon Tetrachloride (56-23-5)

Reason Code:

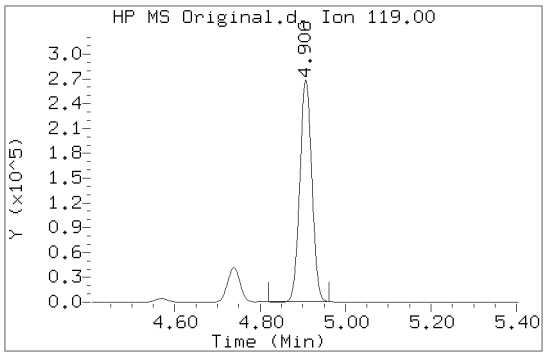
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06-Jun-2024
17:16
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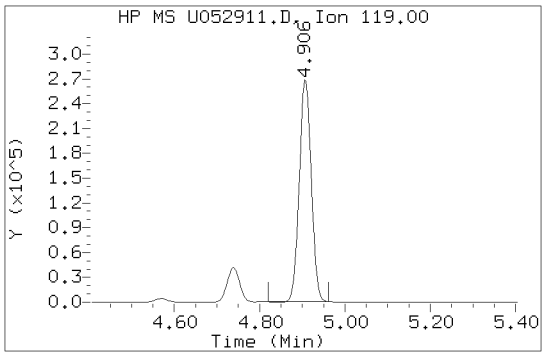
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BEFORE
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06-Jun-2024
17:16
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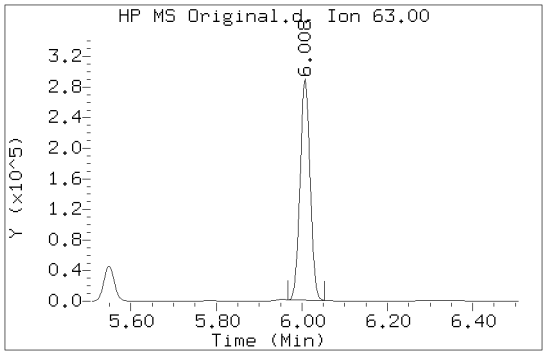
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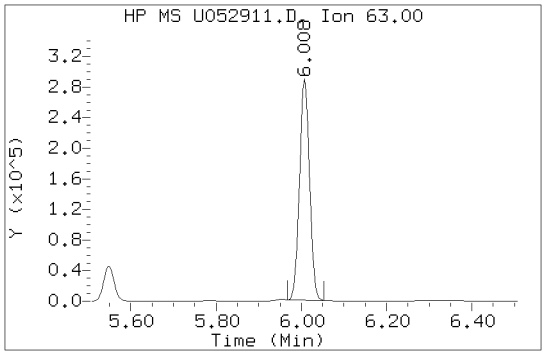
1,2-Dichloropropane (78-87-5)

Reason Code:

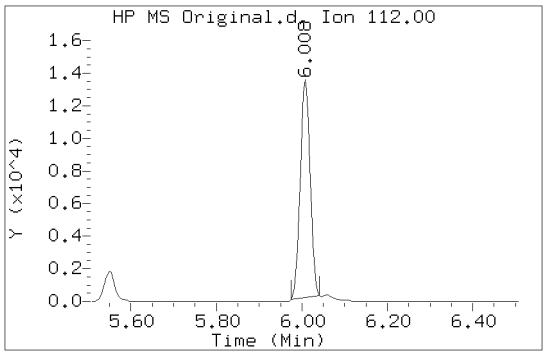
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06-Jun-2024
17:16
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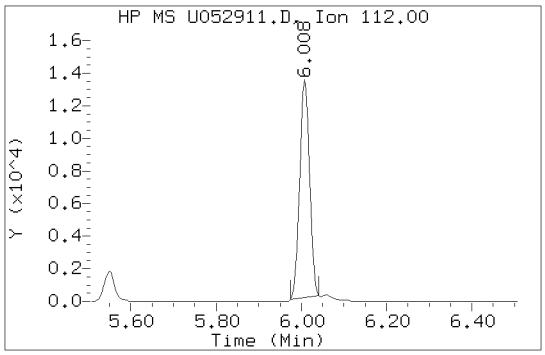
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07-Jun-2024
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BEFORE
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HEIGHT
13367
06-Jun-2024
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AFTER
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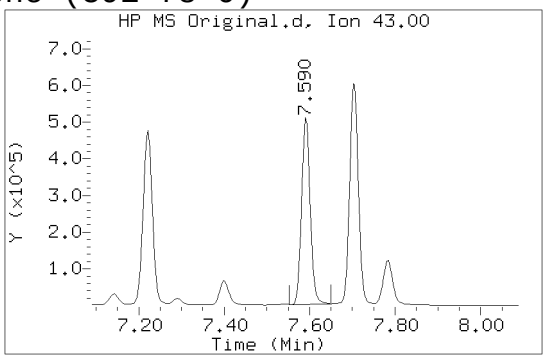


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Inj Date : 29-MAY-2024 13:53
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LabSampID : VSTD200

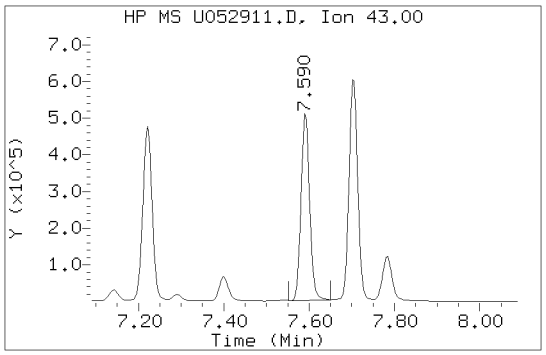
2-Hexanone (591-78-6)

Reason Code:

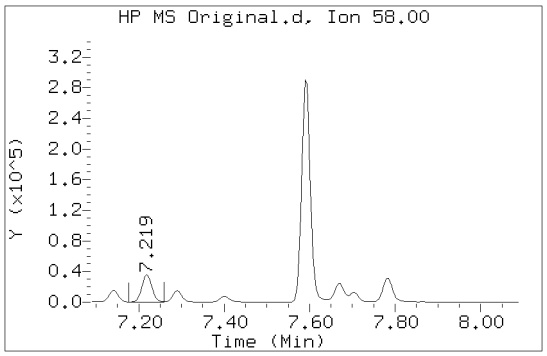
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06-Jun-2024
17:16
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zaid



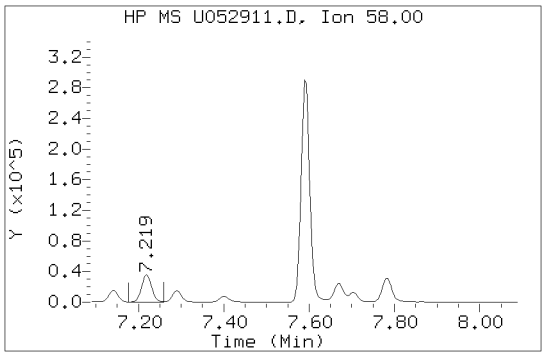
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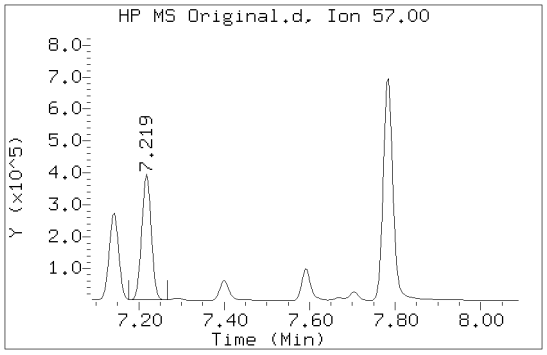
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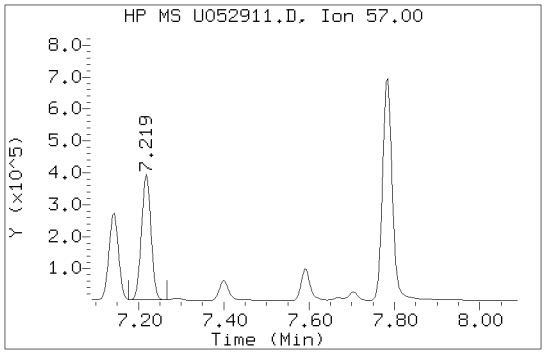
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BEFORE
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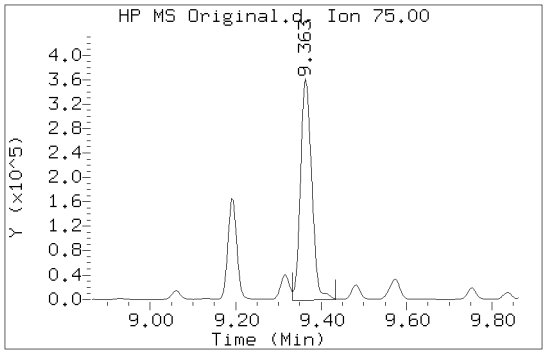
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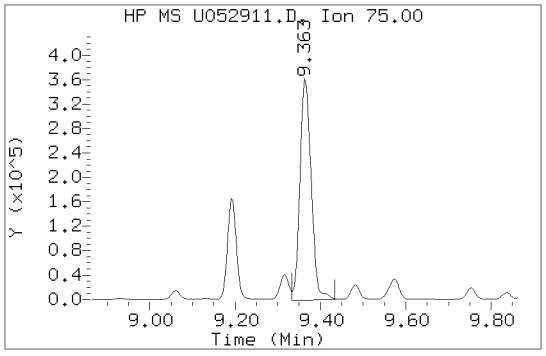
1,2,3-Trichloropropane (96-18-4)

Reason Code:

BEFORE
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06-Jun-2024
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AFTER
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07-Jun-2024
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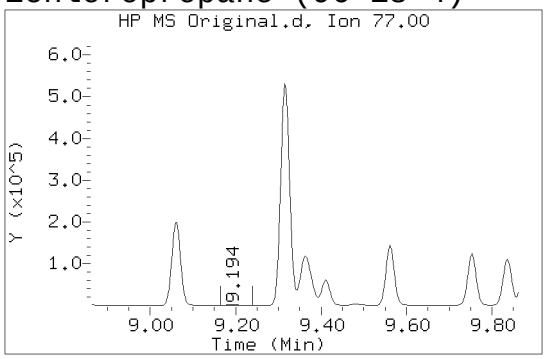


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Inj Date : 29-MAY-2024 13:53
InstruID : VOA9.i
LabSampID : VSTD200

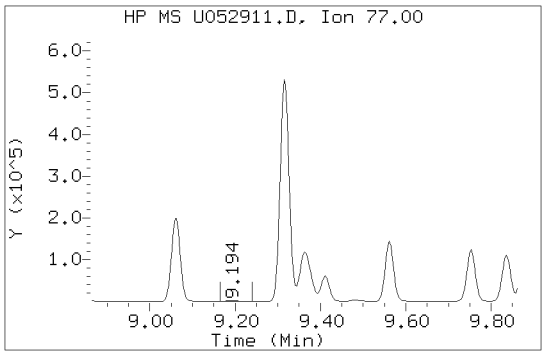
1,2,3-Trichloropropane (96-18-4)

Reason Code:

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06-Jun-2024
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zaid



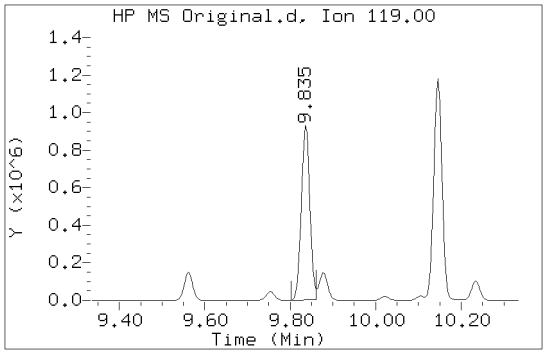
AFTER
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07-Jun-2024
10:36



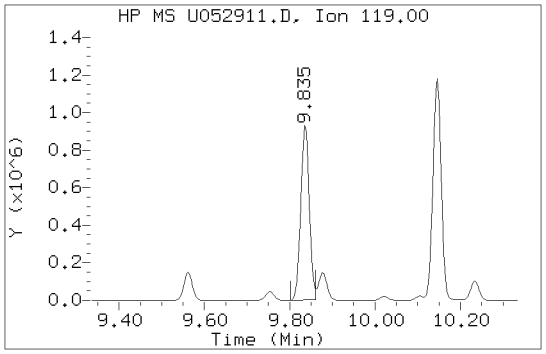
tert-Butylbenzene (98-06-6)

Reason Code:

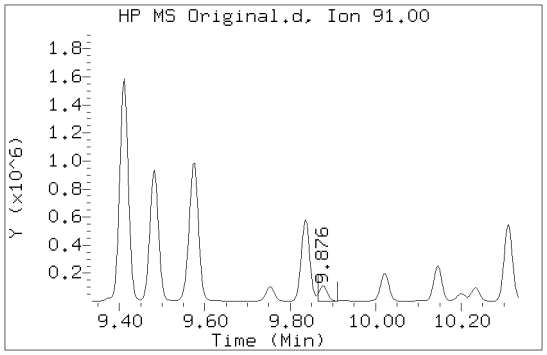
BEFORE
MASS
119
AREA
1330175
HEIGHT
930582
06-Jun-2024
17:16
s
zaid



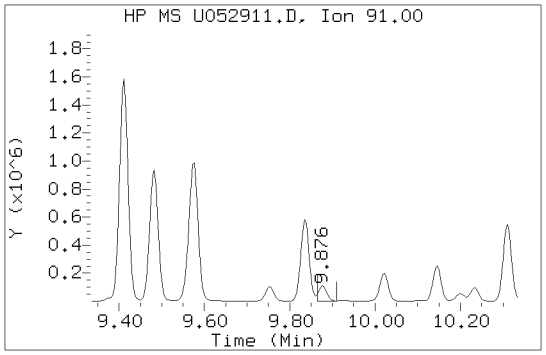
AFTER
MASS
119
AREA
1330175
HEIGHT
930582
07-Jun-2024
10:36



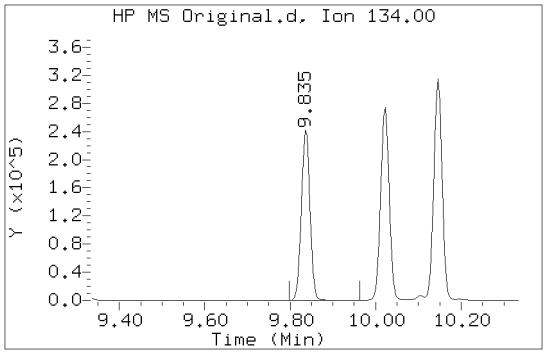
BEFORE
MASS
91
AREA
142300
HEIGHT
108711
06-Jun-2024
17:16
s
zaid



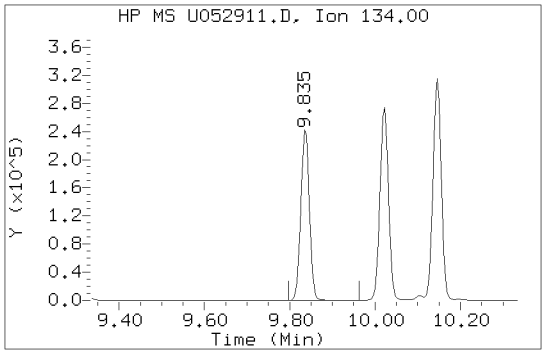
AFTER
MASS
91
AREA
142300
HEIGHT
108711
07-Jun-2024
10:36



BEFORE
MASS
134
AREA
347070
HEIGHT
242376
06-Jun-2024
17:16
s
zaid



AFTER
MASS
134
AREA
347070
HEIGHT
242376
07-Jun-2024
10:36



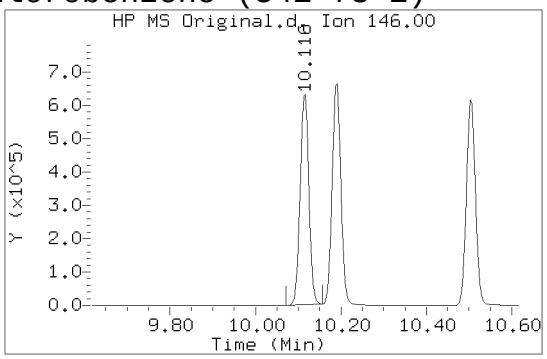
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052911.D
Inj Date : 29-MAY-2024 13:53
InstruID : VOA9.i
LabSampID : VSTD200

1,3-Dichlorobenzene (541-73-1)

Reason Code:

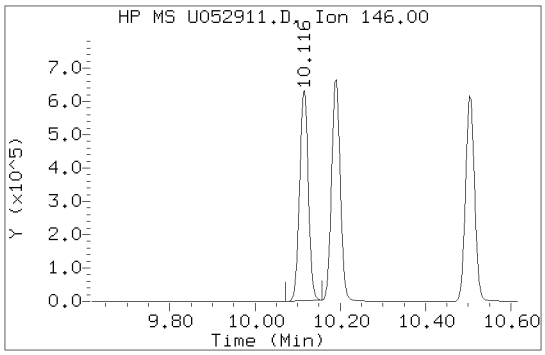
BEFORE

MASS
146
AREA
912530
HEIGHT
630765
06-Jun-2024
17:16
s
zaid



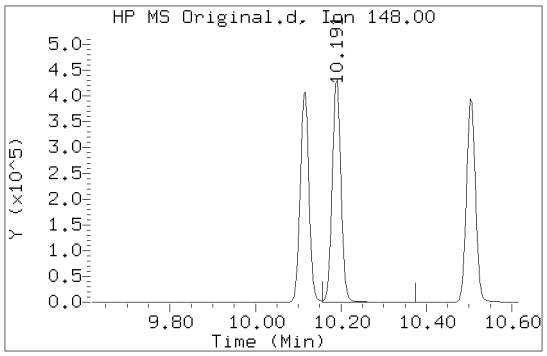
AFTER

MASS
146
AREA
912530
HEIGHT
630765
07-Jun-2024
10:36



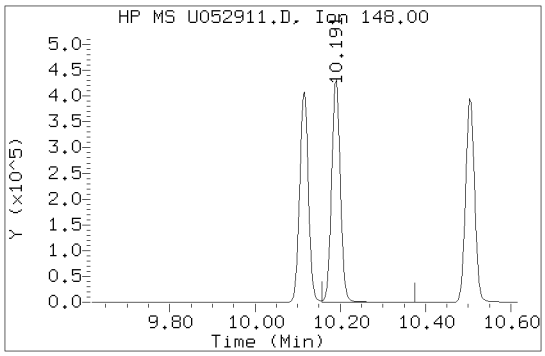
BEFORE

MASS
148
AREA
613080
HEIGHT
431210
06-Jun-2024
17:16
s
zaid



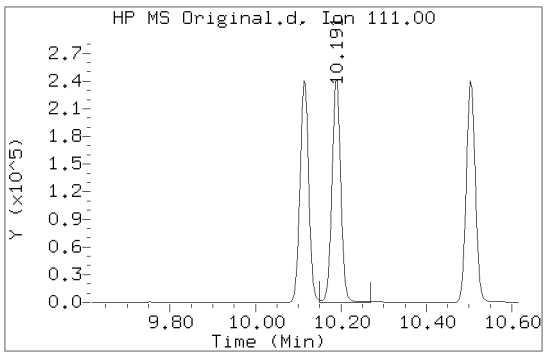
AFTER

MASS
148
AREA
613080
HEIGHT
431210
07-Jun-2024
10:36



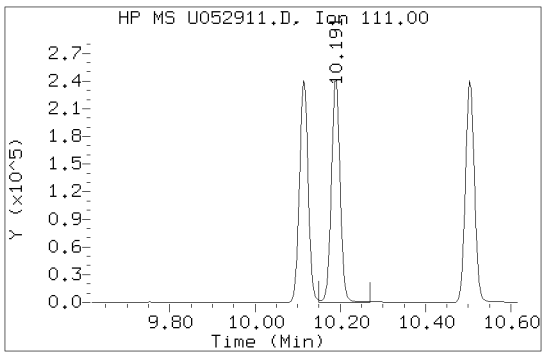
BEFORE

MASS
111
AREA
343411
HEIGHT
240337
06-Jun-2024
17:16
s
zaid



AFTER

MASS
111
AREA
343411
HEIGHT
240337
07-Jun-2024
10:36

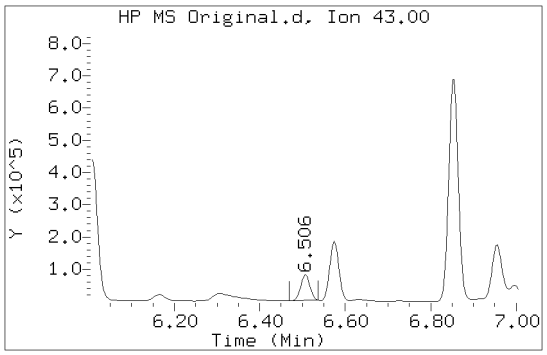


2-Nitropropane (79-46-9)

Reason Code:

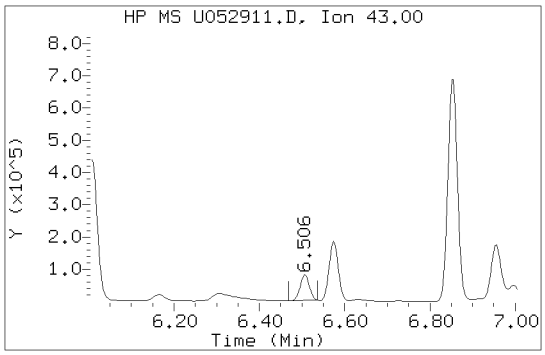
BEFORE

MASS
43
AREA
122639
HEIGHT
80740
06-Jun-2024
17:16
s
zaid



AFTER

MASS
43
AREA
122639
HEIGHT
80740
07-Jun-2024
10:36



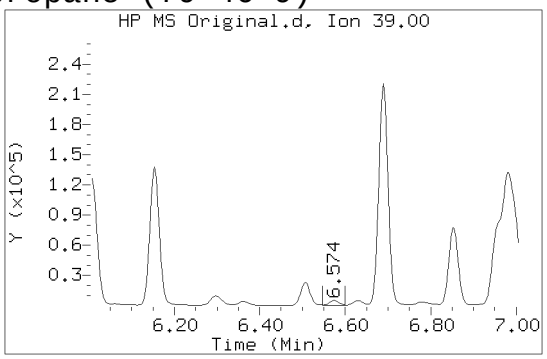
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052911.D
Inj Date : 29-MAY-2024 13:53
InstruID : VOA9.i
LabSampID : VSTD200

2-Nitropropane (79-46-9)

Reason Code:

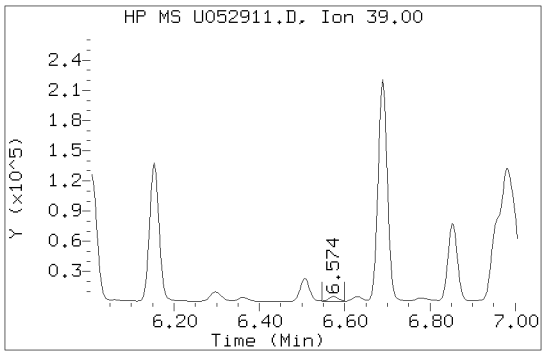
BEFORE

MASS
39
AREA
6637
HEIGHT
4713
06-Jun-2024
17:16
s
zaid



AFTER

MASS
39
AREA
6637
HEIGHT
4713
07-Jun-2024
10:36

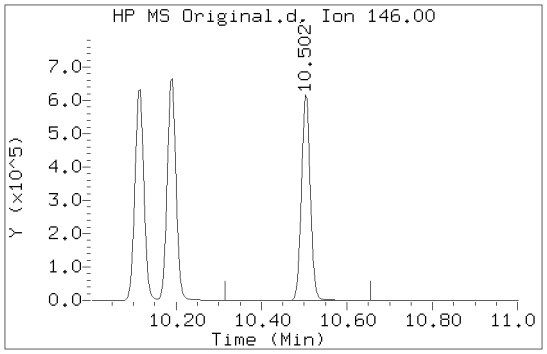


1,2-Dichlorobenzene (95-50-1)

Reason Code:

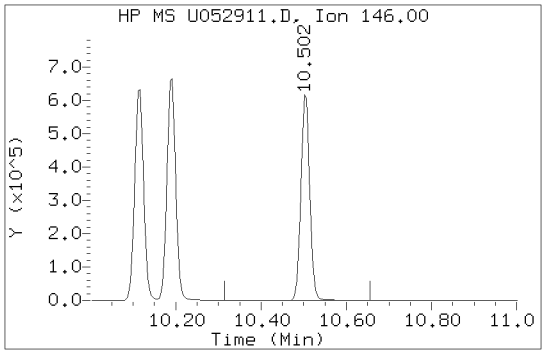
BEFORE

MASS
146
AREA
905419
HEIGHT
616831
06-Jun-2024
17:16
s
zaid



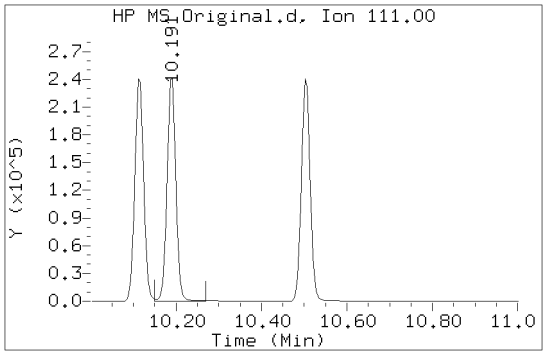
AFTER

MASS
146
AREA
905419
HEIGHT
616831
07-Jun-2024
10:36



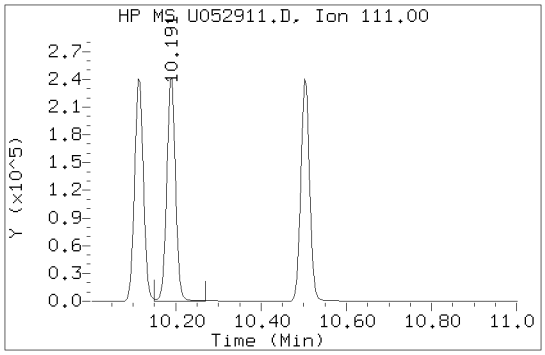
BEFORE

MASS
111
AREA
343411
HEIGHT
240337
06-Jun-2024
17:16
s
zaid



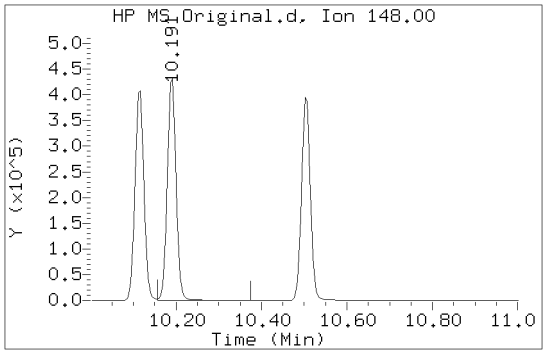
AFTER

MASS
111
AREA
343411
HEIGHT
240337
07-Jun-2024
10:36



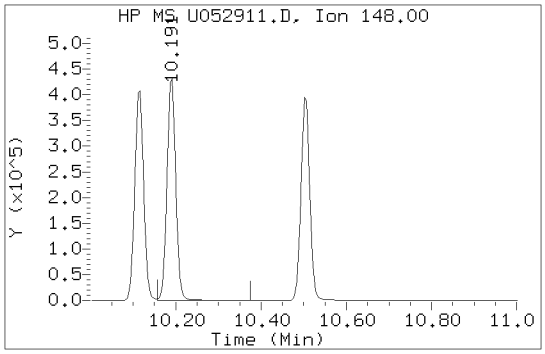
BEFORE

MASS
148
AREA
613080
HEIGHT
431210
06-Jun-2024
17:16
s
zaid



AFTER

MASS
148
AREA
613080
HEIGHT
431210
07-Jun-2024
10:36



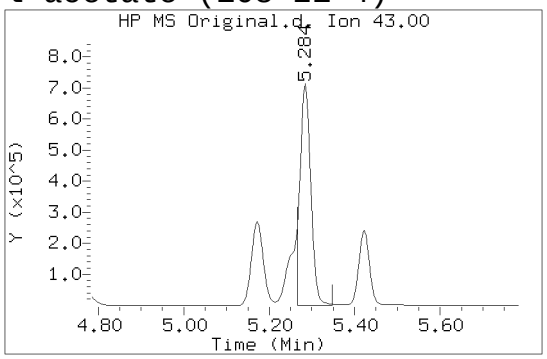
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052911.D
Inj Date : 29-MAY-2024 13:53
InstruID : VOA9.i
LabSampID : VSTD200

Isopropyl acetate (108-21-4)

Reason Code:

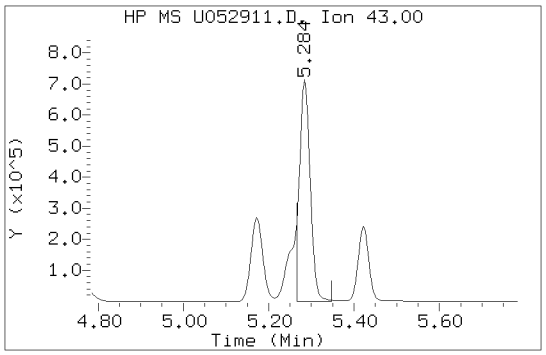
BEFORE

MASS
43
AREA
1268855
HEIGHT
713046
06-Jun-2024
17:16
s
zaid



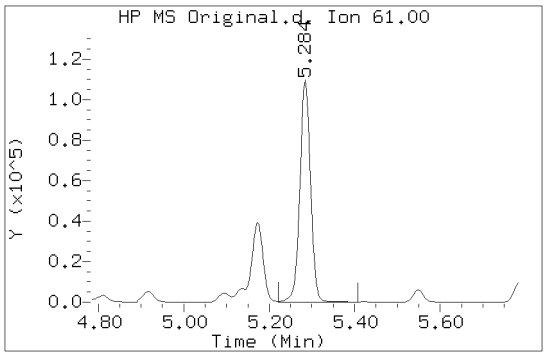
AFTER

MASS
43
AREA
1268855
HEIGHT
713046
07-Jun-2024
10:36



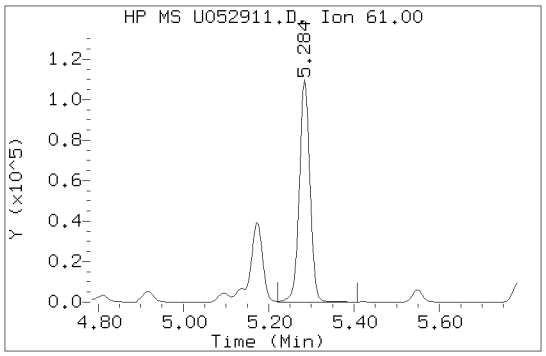
BEFORE

MASS
61
AREA
193741
HEIGHT
109671
06-Jun-2024
17:16
s
zaid



AFTER

MASS
61
AREA
193741
HEIGHT
109671
07-Jun-2024
10:36

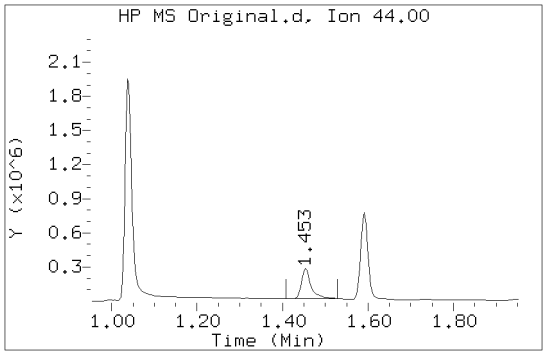


Acetaldehyde (75-07-0)

Reason Code:

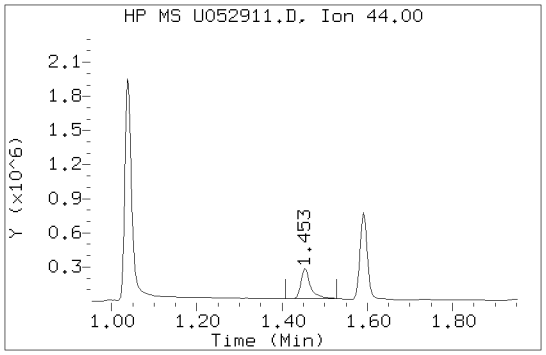
BEFORE

MASS
44
AREA
417509
HEIGHT
267534
06-Jun-2024
17:16
s
zaid



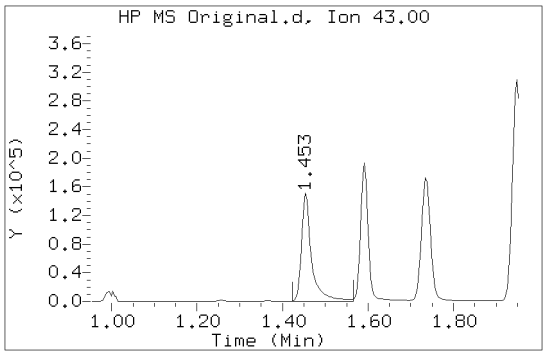
AFTER

MASS
44
AREA
417509
HEIGHT
267534
07-Jun-2024
10:36



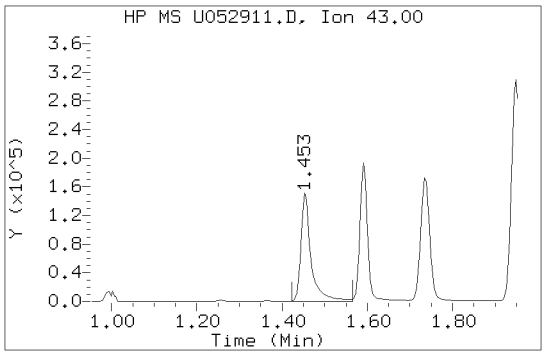
BEFORE

MASS
43
AREA
253392
HEIGHT
151424
06-Jun-2024
17:16
s
zaid



AFTER

MASS
43
AREA
253392
HEIGHT
151424
07-Jun-2024
10:36



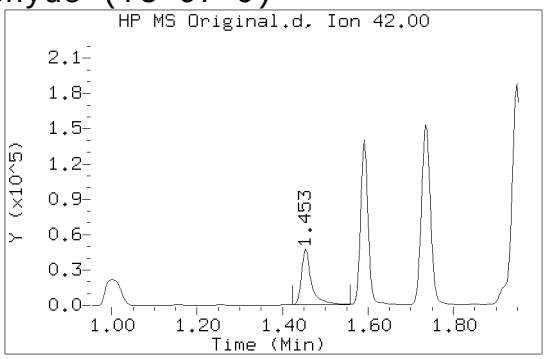
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Inj Date : 29-MAY-2024 13:53
InstruID : VOA9.i
LabSampID : VSTD200

Acetaldehyde (75-07-0)

Reason Code:

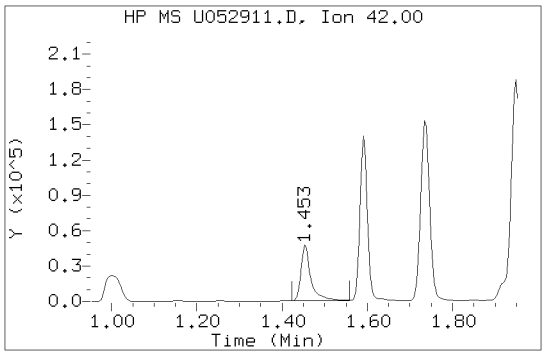
BEFORE

MASS
42
AREA
78584
HEIGHT
47416
06-Jun-2024
17:16
s
zaid



AFTER

MASS
42
AREA
78584
HEIGHT
47416
07-Jun-2024
10:36

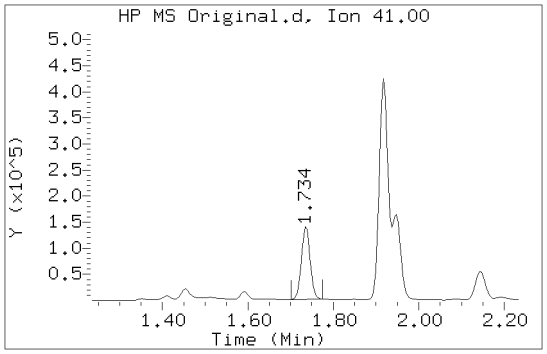


Isobutylene (115-11-7)

Reason Code:

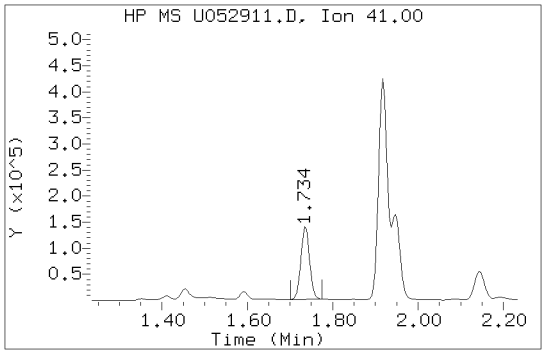
BEFORE

MASS
41
AREA
201782
HEIGHT
138808
06-Jun-2024
17:16
s
zaid



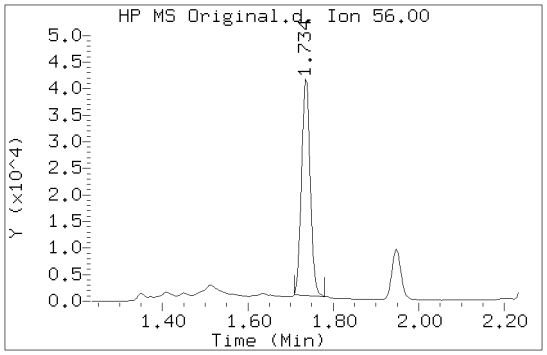
AFTER

MASS
41
AREA
201782
HEIGHT
138808
07-Jun-2024
10:36



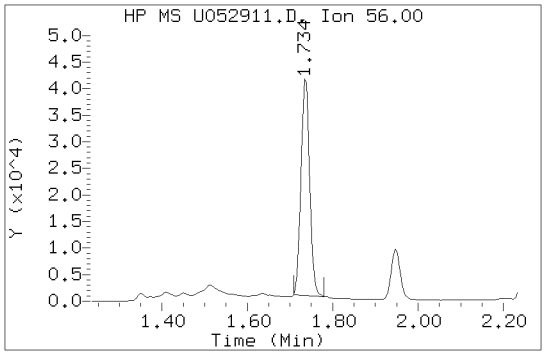
BEFORE

MASS
56
AREA
58944
HEIGHT
40729
06-Jun-2024
17:16
s
zaid



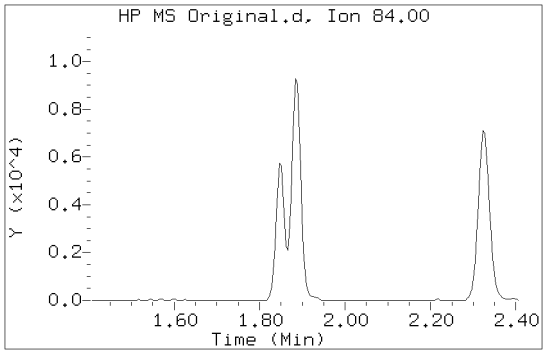
AFTER

MASS
56
AREA
58944
HEIGHT
40729
07-Jun-2024
10:36



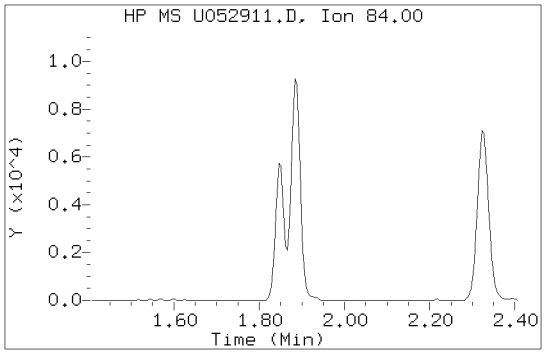
BEFORE

MASS
84
AREA
0
HEIGHT
0
06-Jun-2024
17:16
s
zaid



AFTER

MASS
84
AREA
0
HEIGHT
0
07-Jun-2024
10:36



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052913.D Page 1
Report Date: 07-Jun-2024 10:54

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052913.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 29-MAY-2024 14:36
Operator : FT Inst ID: VOA9.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V9;WATER;0;1;
Comment :
Method : \\nahstws005\Target\chem\voa9.i\U240529.b\bfb.m
Meth Date : 27-Jan-2023 08:08 apoluri Quant Type: ISTD
Cal Date : 30-MAR-2018 18:09 Cal File: U033003.d
Als bottle: 13 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	2.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/l)		
RT	EXP RT	REL RT	MASS	RESPONSE			TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
9.194	9.180	(0.000)	95	80184			0.00- 100.00	100.00
9.194	9.180	(0.000)	50	14653			15.00- 40.00	18.27
9.194	9.180	(0.000)	75	37744			30.00- 60.00	47.07
9.194	9.180	(0.000)	96	5567			5.00- 9.00	6.94
9.194	9.180	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
9.194	9.180	(0.000)	174	70080			50.00- 0.00	87.40
9.194	9.180	(0.000)	175	5888			5.00- 9.00	8.40
9.194	9.180	(0.000)	176	67896			95.00- 101.00	96.88
9.194	9.180	(0.000)	177	4659			5.00- 9.00	6.86

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.27
75	30.00 - 60.00% of mass 95	47.07
96	5.00 - 9.00% of mass 95	6.94
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	87.40
175	5.00 - 9.00% of mass 174	7.34 (8.40)
176	95.00 - 101.00% of mass 174	84.68 (96.88)
177	5.00 - 9.00% of mass 176	5.81 (6.86)

Data File: U052913.D
Spectrum: Scan 2293 (9.19)
Location of Maximum: 95.05
Number of points: 88

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	837	62.00	3407	92.00	2285	141.70	92
37.00	3754	63.00	2359	93.00	3358	142.90	755
38.10	3490	64.00	375	94.00	9391	145.10	69
39.00	1325	65.10	160	95.00	80184	145.80	117
40.00	225	68.00	7398	96.00	5567	146.80	58
41.10	73	69.00	7501	97.00	155	147.80	172
42.10	97	70.00	652	103.80	312	149.00	73
43.10	106	71.10	56	104.90	124	149.90	82
44.00	532	72.00	533	105.90	254	152.90	85
45.00	625	73.00	3438	106.80	86	154.80	181
46.00	90	74.00	12608	114.70	53	156.80	112
47.00	1201	75.00	37744	116.00	247	158.90	71
47.90	556	76.00	3465	116.90	412	161.00	68
49.00	3209	77.00	498	117.80	261	171.90	297
50.00	14653	77.90	369	118.90	327	173.90	70080
51.00	4685	78.90	1685	123.90	59	175.00	5888
52.00	258	80.00	552	127.80	289	175.90	67896
55.00	282	80.90	1857	128.90	145	176.90	4659
56.00	1133	81.90	432	129.90	369	177.80	137
57.00	1985	86.10	166	130.90	121		
57.90	135	87.00	3814	134.90	131		
60.00	795	87.90	3431	136.80	126		
61.00	3394	91.00	255	141.00	713		

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052913.D Page 1

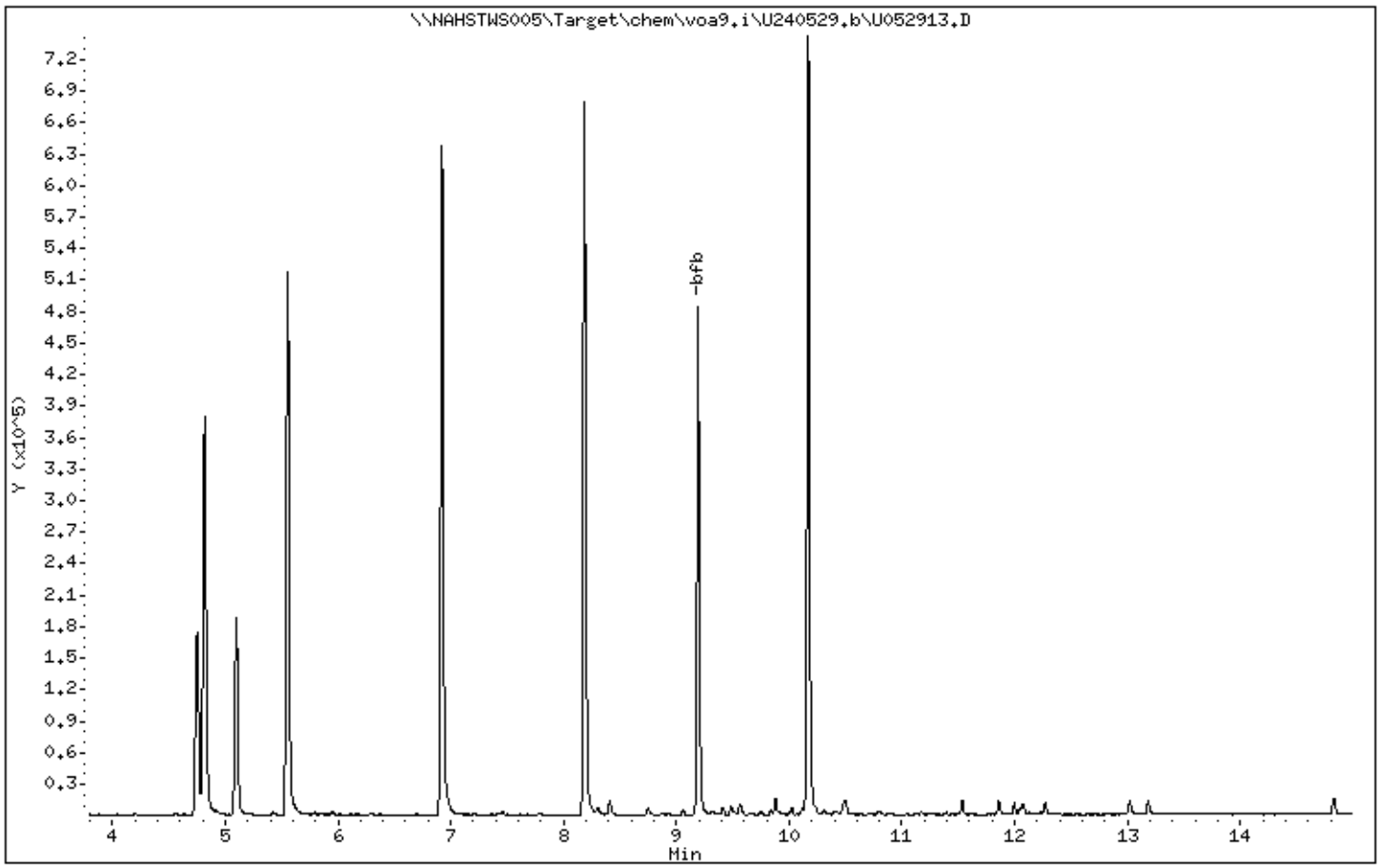
Date : 29-MAY-2024 14:36

Client ID: BFB Instrument: VOA9.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: FT

Column phase: DB624 Column diameter: 0.25



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052913.D Page 2

Date : 29-MAY-2024 14:36

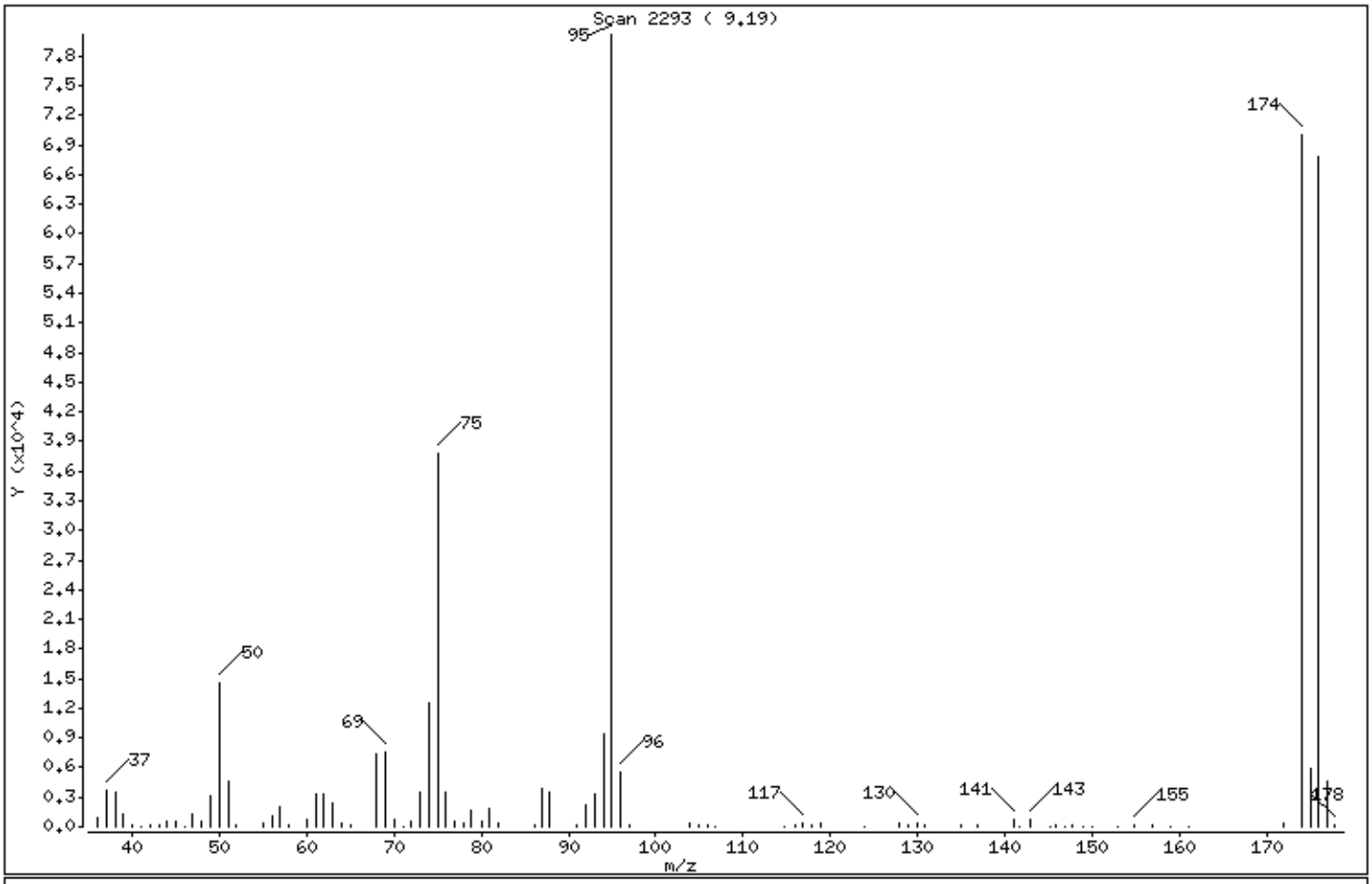
Client ID: BFB Instrument: VOA9.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: FT

Column phase: DB624 Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.27
75	30.00 - 60.00% of mass 95	47.07
96	5.00 - 9.00% of mass 95	6.94
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	87.40
175	5.00 - 9.00% of mass 174	7.34 (8.40)
176	95.00 - 101.00% of mass 174	84.68 (96.88)
177	5.00 - 9.00% of mass 176	5.81 (6.86)

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052913.D Page 3

Date : 29-MAY-2024 14:36

Client ID: BFB Instrument: VOA9.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: FT

Column phase: DB624 Column diameter: 0.25

Data File: U052913.D
Spectrum: Scan 2293 (9.19)
Location of Maximum: 95.05
Number of points: 88

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	837	62.00	3407	92.00	2285	141.70	92
37.00	3754	63.00	2359	93.00	3358	142.90	755
38.10	3490	64.00	375	94.00	9391	145.10	69
39.00	1325	65.10	160	95.00	80184	145.80	117
40.00	225	68.00	7398	96.00	5567	146.80	58
41.10	73	69.00	7501	97.00	155	147.80	172
42.10	97	70.00	652	103.80	312	149.00	73
43.10	106	71.10	56	104.90	124	149.90	82
44.00	532	72.00	533	105.90	254	152.90	85
45.00	625	73.00	3438	106.80	86	154.80	181
46.00	90	74.00	12608	114.70	53	156.80	112
47.00	1201	75.00	37744	116.00	247	158.90	71
47.90	556	76.00	3465	116.90	412	161.00	68
49.00	3209	77.00	498	117.80	261	171.90	297
50.00	14653	77.90	369	118.90	327	173.90	70080
51.00	4685	78.90	1685	123.90	59	175.00	5888
52.00	258	80.00	552	127.80	289	175.90	67896
55.00	282	80.90	1857	128.90	145	176.90	4659
56.00	1133	81.90	432	129.90	369	177.80	137
57.00	1985	86.10	166	130.90	121		
57.90	135	87.00	3814	134.90	131		
60.00	795	87.90	3431	136.80	126		
61.00	3394	91.00	255	141.00	713		

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052914.D Page 1
Report Date: 07-Jun-2024 10:54

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052914.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 29-MAY-2024 14:58
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD050;VSTD050;2;;ICV
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240529.b\8260C.m
Meth Date : 07-Jun-2024 10:14 r.patel Quant Type: ISTD
Cal Date : 29-MAY-2024 13:53 Cal File: U052911.D
Als bottle: 14 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1	Pentafluorobenzene	168	4.815	4.811	(1.000)	287772	50.0000	
2	Dichlorodifluoromethane	85	1.164	1.156	(0.242)	53719	50.0741	50.07
3	Chloromethane	50	1.295	1.288	(0.269)	177348	46.1613	46.16
4	Propionitrile	54	4.339	4.339	(0.901)	160927	509.455	509.45
5	Vinyl Chloride	62	1.378	1.366	(0.286)	102543	47.1872	47.18
6	Bromomethane	94	1.610	1.595	(0.334)	48298	50.8897	50.88
7	Chloroethane	64	1.696	1.681	(0.352)	77244	50.7861	50.78
8	Trichlorofluoromethane	101	1.895	1.884	(0.394)	128651	49.8529	49.85
9	Acrolein	56	2.266	2.259	(0.471)	10741	106.051	106.05
10	Acetone	43	2.412	2.405	(0.501)	81278	93.8084	93.80
11	1,1-Dichloroethene	96	2.334	2.322	(0.485)	87731	46.2461	46.24
12	Isobutyl Alcohol	43	5.284	5.284	(1.097)	316104	1028.57	1028.56
13	Acetonitrile	39	2.671	2.663	(0.555)	109638	469.676	469.67
14	Allyl Chloride	41	2.675	2.667	(0.556)	275022	48.7552	48.75
15	Iodomethane	142	2.469	2.457	(0.513)	50139	113.942	113.94
16	Acrylonitrile	53	3.068	3.061	(0.637)	80768	101.029	101.02
17	Methylene Chloride	84	2.795	2.783	(0.580)	108574	48.8217	48.82
18	Methyl tert-butyl ether	73	3.083	3.076	(0.640)	265782	49.8493	49.84
19	Carbon Disulfide	76	2.517	2.510	(0.523)	494682	92.9567	92.95
20	trans-1,2-Dichloroethene	96	3.057	3.050	(0.635)	95093	44.3300	44.32
21	Vinyl Acetate	43	4.343	4.339	(0.902)	125248	98.7622	98.76

22 1,1-Dichloroethane	63	3.511	3.507 (0.729)	178078	43.2139	43.21
23 Chloroprene	53	3.608	3.601 (0.749)	147641	48.8606	48.86

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052914.D Page 2
Report Date: 07-Jun-2024 10:54

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	24 2-Butanone	43	4.268	4.260	(0.886)	119814	93.1664	93.16
	25 Methacrylonitrile	41	4.497	4.489	(0.934)	67231	51.0896	51.08(a)
	26 2,2-Dichloropropane	77	4.182	4.174	(0.868)	124372	45.9833	45.98
	27 cis-1,2-Dichloroethene	96	4.197	4.189	(0.872)	116144	43.8397	43.83
	28 Chloroform	83	4.572	4.568	(0.949)	183606	44.6237	44.62
	29 Bromochloromethane	128	4.470	4.463	(0.928)	58378	47.8853	47.88
$	30 Dibromofluoromethane	113	4.748	4.744	(0.986)	90302	49.3912	49.39
	31 1,1,1-Trichloroethane	97	4.740	4.736	(0.984)	143272	49.7227	49.72
	32 1,1-Dichloropropene	75	4.920	4.916	(0.887)	139812	46.4772	46.47
	33 1,2-Dichloroethane	62	5.175	5.171	(0.932)	145293	47.0475	47.04
	34 Carbon Tetrachloride	117	4.909	4.905	(0.885)	116894	49.6058	49.60
$	35 1,2-Dichloroethane-d4	65	5.096	5.093	(1.058)	103550	46.8481	46.84
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	415329	50.0000	
	37 Benzene	78	5.138	5.134	(0.926)	425847	43.5309	43.53
	38 Trichloroethene	130	5.786	5.786	(1.043)	109914	45.6498	45.64
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	126799	48.1928	48.19
	40 Methyl Methacrylate	41	5.824	5.827	(1.209)	50281	49.8897	49.88
	41 2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	88566	101.743	101.74
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	116276	45.0663	45.06
	43 2-Nitropropane	43	6.506	6.506	(1.351)	26001	52.0149	52.01
	44 Dibromomethane	93	6.120	6.116	(1.103)	68623	45.8011	45.80
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	254189	101.311	101.31
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	167905	48.2364	48.23
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	371923	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.845)	331791	46.7966	46.79
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	149924	46.6672	46.66
	50 Toluene	91	6.978	6.978	(0.853)	439801	43.5628	43.56
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	138412	48.5304	48.53
	52 2-Hexanone	43	7.589	7.589	(0.927)	164379	100.641	100.64
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	86984	49.0304	49.03
	54 1,3-Dichloropropane	76	7.496	7.499	(0.916)	190629	46.3559	46.35
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	106208	48.7380	48.73
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	86044	48.7990	48.79
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	106542	47.9871	47.98
	58 1-Chlorohexane	55	8.193	8.196	(1.476)	81326	47.2160	47.21
	59 Chlorobenzene	112	8.208	8.208	(1.003)	284675	44.4106	44.41
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	101188	49.4682	49.46
	61 Ethylbenzene	106	8.305	8.305	(1.015)	144389	48.7297	48.72
	62 m,p-Xylenes	106	8.406	8.406	(1.027)	368978	96.4503	96.45
	63 o-Xylene	106	8.744	8.744	(1.068)	179337	46.6963	46.69
	64 Styrene	104	8.759	8.759	(1.070)	299869	48.7114	48.71
	66 Bromoform	173	8.916	8.916	(1.089)	68169	48.2034	48.20
	67 Isopropylbenzene	105	9.059	9.059	(1.107)	439282	49.4841	49.48
	68 1,1,2,2-Tetrachloroethane	83	9.325	9.329	(0.917)	153451	45.5754	45.57
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	122316	47.2842	47.28
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	202558	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.921)	150118	47.5463	47.54(M)
	72 trans-1,4-Dichloro-2-butene	53	9.374	9.377	(1.145)	30164	47.4686	47.46
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	503350	46.1115	46.11
	74 Bromobenzene	156	9.314	9.317	(0.916)	124615	44.7399	44.73
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	354728	47.7645	47.76
	76 2-Chlorotoluene	91	9.482	9.482	(0.933)	309906	48.7638	48.76

77	4-Chlorotoluene	91	9.572	9.576 (0.941)	355012	45.2957	45.29
78	tert-Butylbenzene	119	9.835	9.835 (0.967)	304126	49.6236	49.62

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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	363622	47.5777	47.57
81	sec-Butylbenzene	105	10.018	10.022	(0.985)	408285	49.0860	49.08
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	359682	49.6230	49.62
83	1,3-Dichlorobenzene	146	10.112	10.116	(0.994)	212984	45.2811	45.28(M)
84	1,4-Dichlorobenzene	146	10.187	10.191	(1.002)	224156	43.0326	43.03
86	Benzyl Chloride	91	10.311	10.311	(1.260)	131578	43.7766	43.77
87	n-Butylbenzene	91	10.491	10.491	(1.032)	308545	47.3013	47.30
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	216164	44.3568	44.35(M)
89	1,2-Dibromo-3-Chloropropane	155	11.166	11.165	(1.098)	21228	49.6795	49.67
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	143434	46.7112	46.71
91	Hexachlorobutadiene	225	11.998	11.998	(1.180)	55978	45.4354	45.43
92	Naphthalene	128	12.065	12.065	(1.187)	374407	50.1844	50.18
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	135961	47.5293	47.52
146	Methyl acetate	43	2.716	2.708	(0.564)	109893	48.2621	48.26
138	Freon TF	101	2.334	2.326	(0.485)	75696	47.3879	47.38
141	Cyclohexane	56	4.781	4.778	(0.993)	132346	48.3487	48.34
142	Tetrahydrofuran	42	4.545	4.542	(0.944)	42130	102.199	102.19
147	Methylcyclohexane	55	5.947	5.944	(1.072)	247349	48.1996	48.19
135	1,4-Dioxane	88	6.168	6.168	(1.281)	29165	989.088	989.08
132	n-Butanol	56	5.824	5.827	(1.209)	73645	949.984	949.98
136	n-Hexane	57	3.338	3.331	(0.693)	88944	46.4912	46.49
139	Diethyl ether	59	2.146	2.139	(0.446)	75924	50.2503	50.25
148	Tert-butyl alcohol	59	2.978	2.975	(0.619)	211228	1061.03	1061.03
149	Isopropyl alcohol	45	2.574	2.570	(0.534)	163707	1048.72	1048.72
152	Amyl alcohol	42	7.398	7.398	(0.904)	82560	1001.34	1001.33
156	Diisopropyl ether	45	3.623	3.619	(0.752)	324904	44.2190	44.21
162	Butyl acrylate	55	8.733	8.733	(1.067)	188693	47.2660	47.26
187	n-Amyl acetate	43	8.928	8.931	(1.091)	189871	47.0168	47.01
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	461598	44.4310	44.43
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	322602	45.7464	45.74
167	Ethanol	45	2.090	2.086	(0.434)	31184	1064.06	1064.06
172	tert-Butyl formate	59	5.246	5.250	(1.090)	220160	96.8522	96.85
173	3,3-Dimethyl-1-butanol	57	7.780	7.784	(0.951)	244807	945.680	945.68
174	tert-Amyl methyl ether	73	5.288	5.284	(1.098)	316230	46.9636	46.96
175	tert-Butyl ethyl ether	59	4.050	4.047	(0.841)	296266	45.0136	45.01
176	tert-Amyl alcohol	59	5.246	5.250	(1.090)	220160	957.382	957.38
151	4-Methyl-2-pentanol	45	7.214	7.222	(1.300)	684124	1000.99	1000.98
140	1,3-Butadiene	54	1.404	1.396	(0.292)	52944	49.7248	49.72
182	Epichlorohydrin	57	6.630	6.630	(1.195)	29494	202.504	202.50
M 94	1,2-Dichloroethylene (total)	96				211237	88.1181	88.11
M 95	Xylenes (total)	106				548315	144.965	144.96
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	149292	48.1430	48.14
130	Ethyl Acetate	43	4.343	4.339	(0.902)	125248	47.2543	47.25
131	Methyl Acrylate	55	4.369	4.365	(0.907)	132514	49.8882	49.88
189	n-Butyl acetate	43	7.702	7.702	(0.941)	188477	48.2719	48.27
134	Cyclohexanone	55	9.152	9.152	(0.900)	109024	945.905	945.90
185	Isoprene	39	2.157	2.146	(0.448)	22389	48.8527	48.85
188	Isopropyl acetate	43	5.284	5.284	(0.952)	316390	45.9115	45.91
150	Allyl alcohol	57	3.338	3.331	(0.693)	88944	929.824	929.82
194	Acetaldehyde	44	1.464	1.453	(0.304)	86793	182.705	182.70(M)
195	Methyl Amyl Ketone	43	8.868	8.868	(1.083)	211067	46.5857	46.58
200	Dimethyl Disulfide	94	6.746	6.746	(0.824)	73781	40.9419	40.94

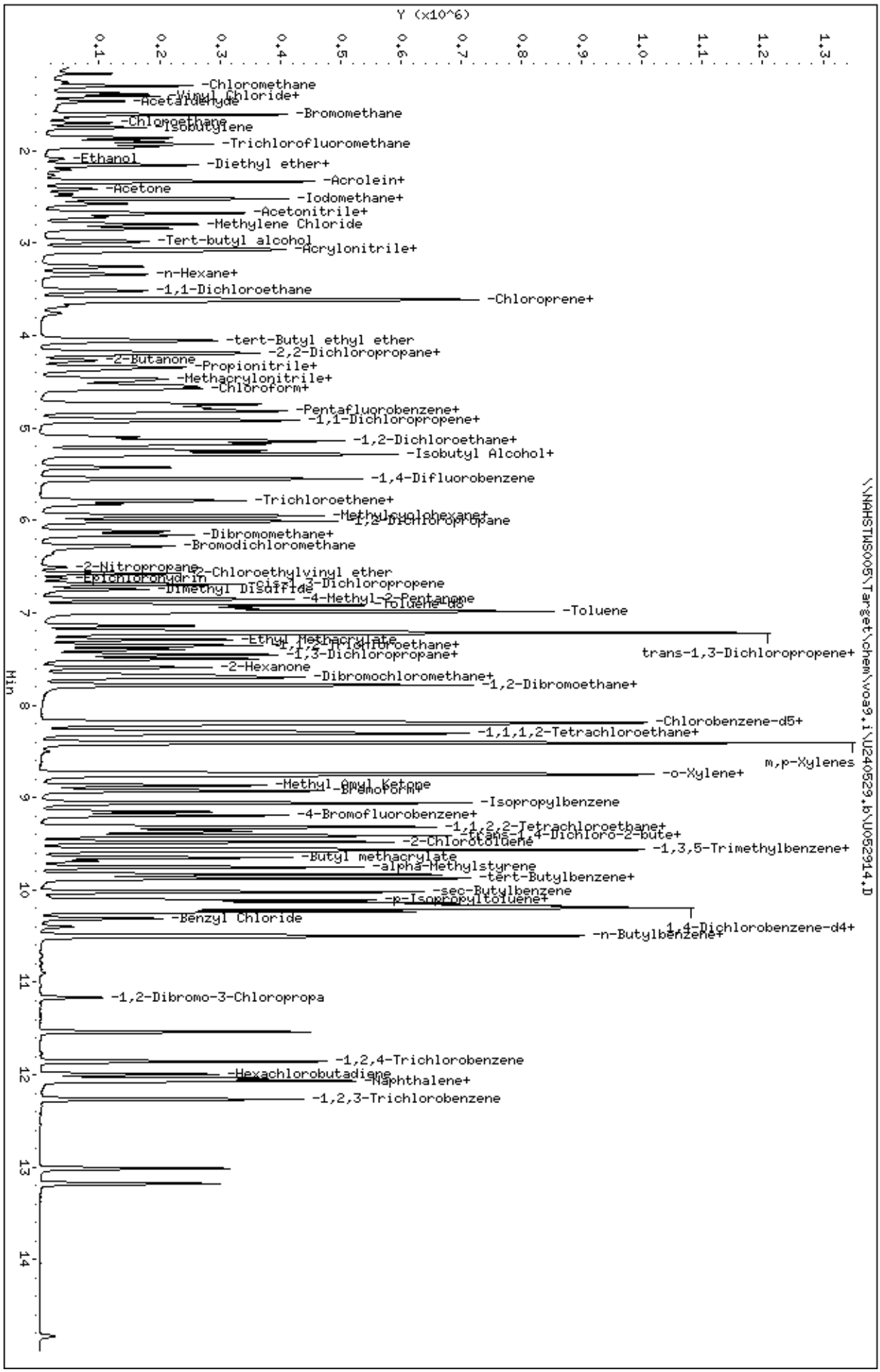
202 Isobutylene	41	1.749	1.734 (0.363)	45044	50.8764	50.87(M)
133 Ethyl Acrylate	55	5.947	5.944 (1.235)	247349	48.4292	48.42

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052914.D Page 4
Report Date: 07-Jun-2024 10:54

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
163 Butyl methacrylate	41	9.647	9.647	(0.949)	103612	44.2067	44.20
159 Propylene oxide	43	2.202	2.191	(0.457)	15875	96.2830	96.28
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	118712	47.2131	47.21

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052914.D
Date : 29-MAY-2024 14:58
Client ID: VSTD050
Sample Info: VSTD050;VSTD050;2;;ICV
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: FT
Column diameter: 0.18

\\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052914.D

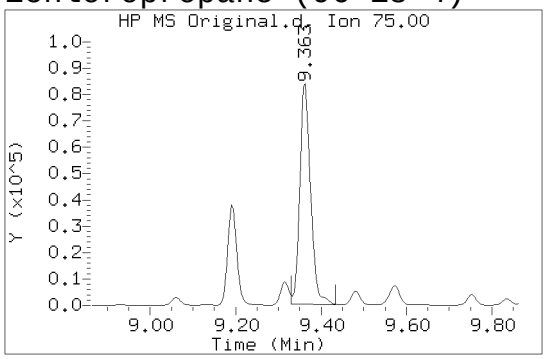
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052914.D
Inj Date : 29-MAY-2024 14:58
InstruID : VOA9.i
LabSampID : VSTD050

1,2,3-Trichloropropane (96-18-4)

Reason Code:

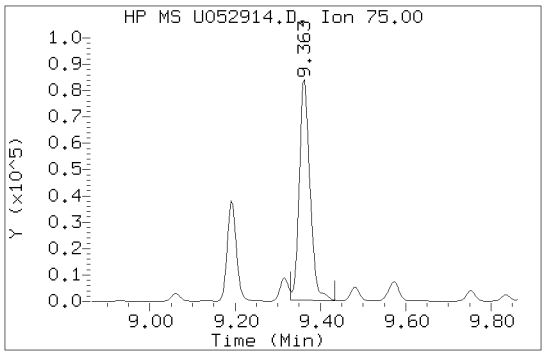
BEFORE

MASS
75
AREA
150118
HEIGHT
83759
06-Jun-2024
17:10
s
zaid



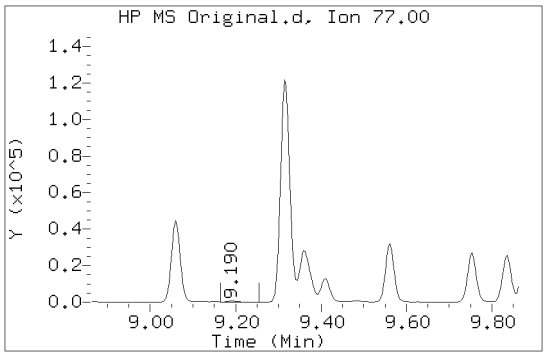
AFTER

MASS
75
AREA
150118
HEIGHT
83759
07-Jun-2024
10:36



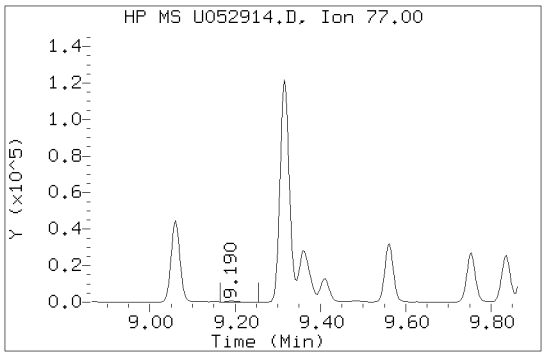
BEFORE

MASS
77
AREA
1257
HEIGHT
553
06-Jun-2024
17:10
s
zaid



AFTER

MASS
77
AREA
1257
HEIGHT
553
07-Jun-2024
10:36

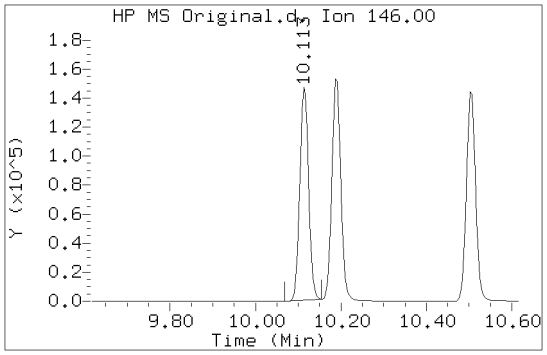


1,3-Dichlorobenzene (541-73-1)

Reason Code:

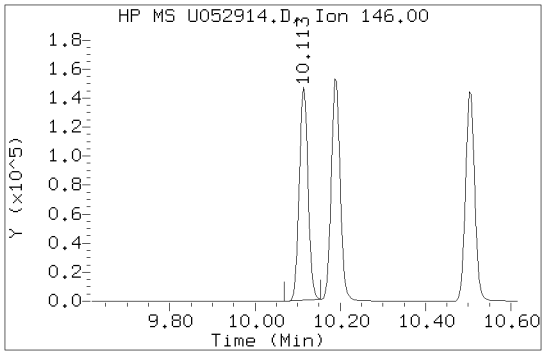
BEFORE

MASS
146
AREA
212984
HEIGHT
146863
06-Jun-2024
17:10
s
zaid



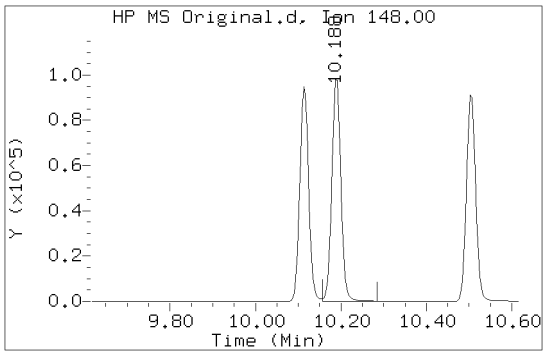
AFTER

MASS
146
AREA
212984
HEIGHT
146863
07-Jun-2024
10:36



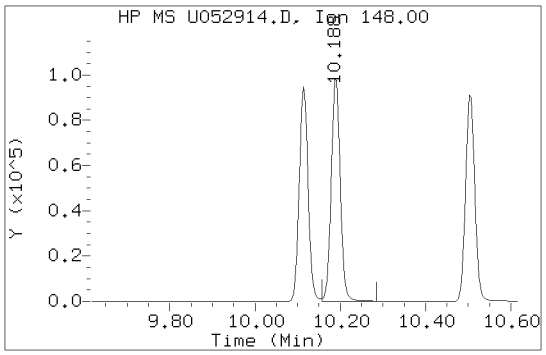
BEFORE

MASS
148
AREA
144497
HEIGHT
97878
06-Jun-2024
17:10
s
zaid



AFTER

MASS
148
AREA
144497
HEIGHT
97878
07-Jun-2024
10:36



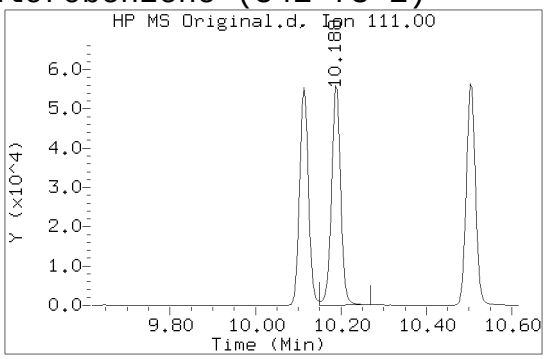
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Inj Date : 29-MAY-2024 14:58
InstruID : VOA9.i
LabSampID : VSTD050

1,3-Dichlorobenzene (541-73-1)

Reason Code:

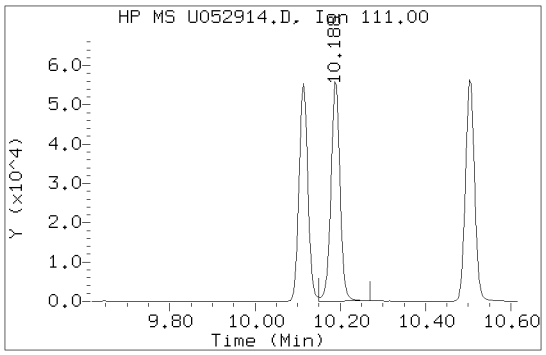
BEFORE

MASS
111
AREA
82544
HEIGHT
55841
06-Jun-2024
17:10
s
zaid



AFTER

MASS
111
AREA
82544
HEIGHT
55841
07-Jun-2024
10:36

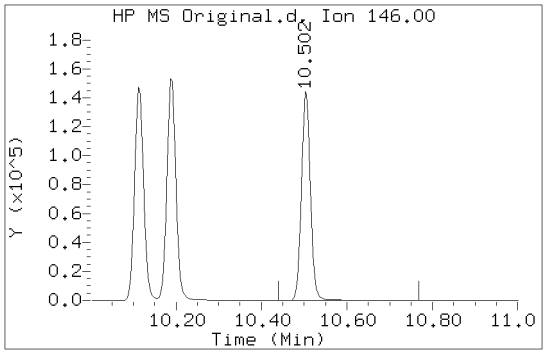


1,2-Dichlorobenzene (95-50-1)

Reason Code:

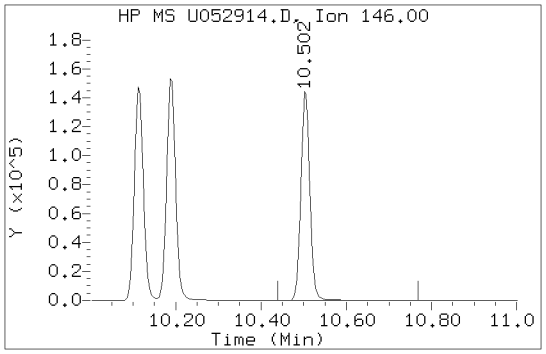
BEFORE

MASS
146
AREA
216164
HEIGHT
144448
06-Jun-2024
17:10
s
zaid



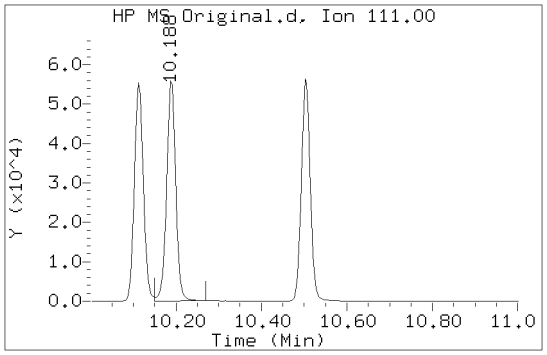
AFTER

MASS
146
AREA
216164
HEIGHT
144448
07-Jun-2024
10:36



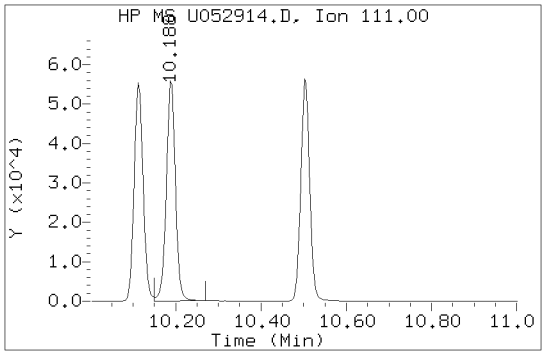
BEFORE

MASS
111
AREA
82544
HEIGHT
55841
06-Jun-2024
17:10
s
zaid



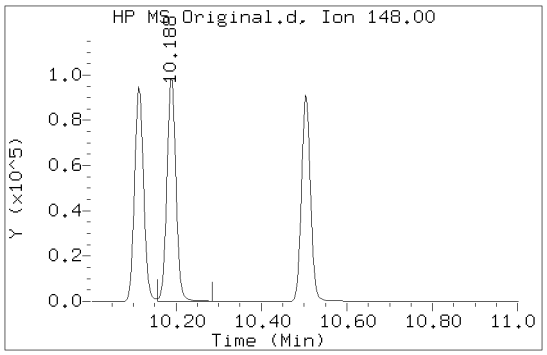
AFTER

MASS
111
AREA
82544
HEIGHT
55841
07-Jun-2024
10:36



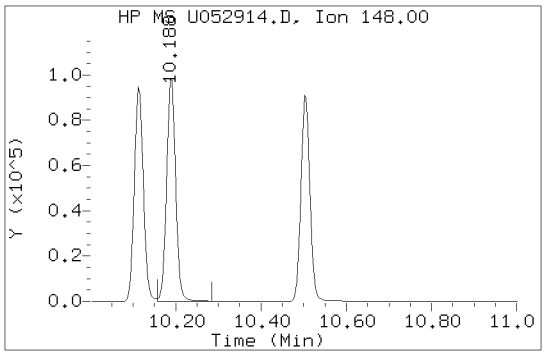
BEFORE

MASS
148
AREA
144497
HEIGHT
97878
06-Jun-2024
17:10
s
zaid



AFTER

MASS
148
AREA
144497
HEIGHT
97878
07-Jun-2024
10:36

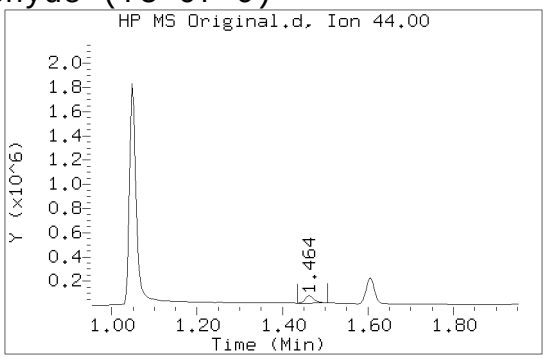


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052914.D
Inj Date : 29-MAY-2024 14:58
InstruID : VOA9.i
LabSampID : VSTD050

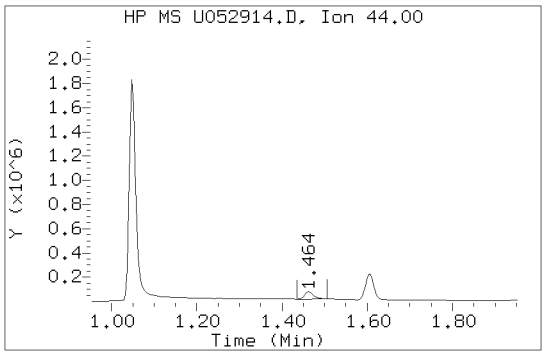
Acetaldehyde (75-07-0)

Reason Code:

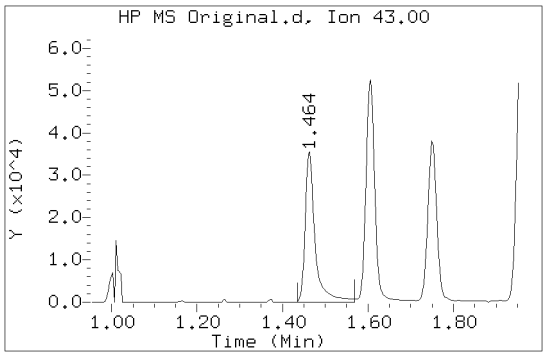
BEFORE
MASS
44
AREA
86793
HEIGHT
62067
06-Jun-2024
17:10
s
zaid



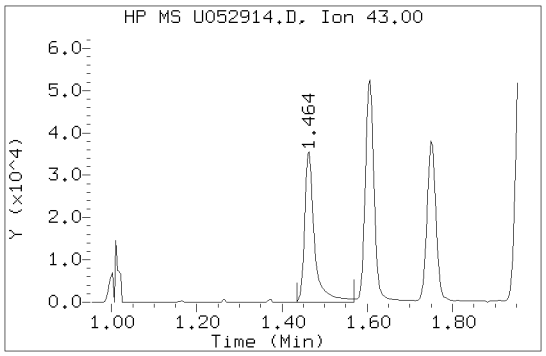
AFTER
MASS
44
AREA
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HEIGHT
62067
07-Jun-2024
10:36



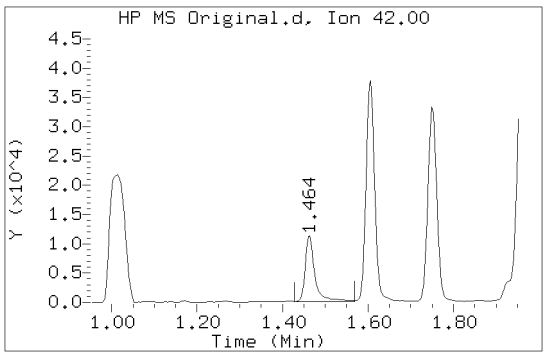
BEFORE
MASS
43
AREA
58334
HEIGHT
35528
06-Jun-2024
17:10
s
zaid



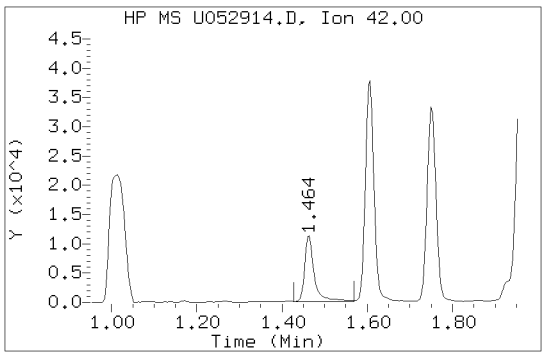
AFTER
MASS
43
AREA
58334
HEIGHT
35528
07-Jun-2024
10:36



BEFORE
MASS
42
AREA
17656
HEIGHT
11223
06-Jun-2024
17:10
s
zaid



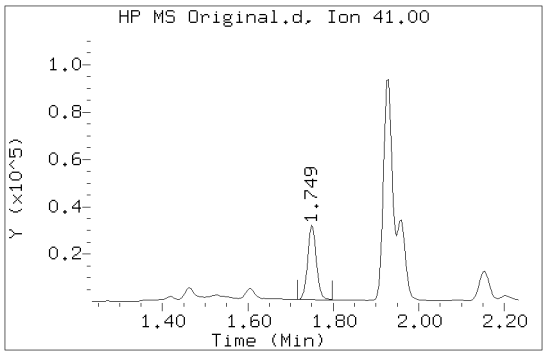
AFTER
MASS
42
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HEIGHT
11223
07-Jun-2024
10:36



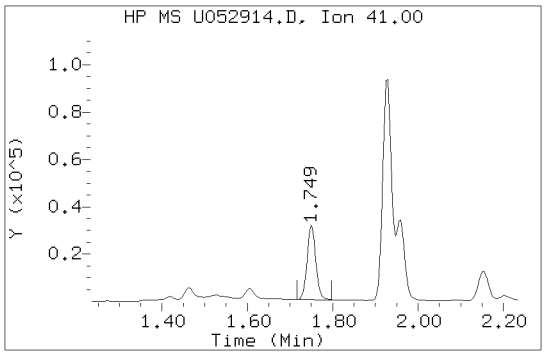
Isobutylene (115-11-7)

Reason Code:

BEFORE
MASS
41
AREA
45044
HEIGHT
31427
06-Jun-2024
17:10
s
zaid



AFTER
MASS
41
AREA
45044
HEIGHT
31427
07-Jun-2024
10:36



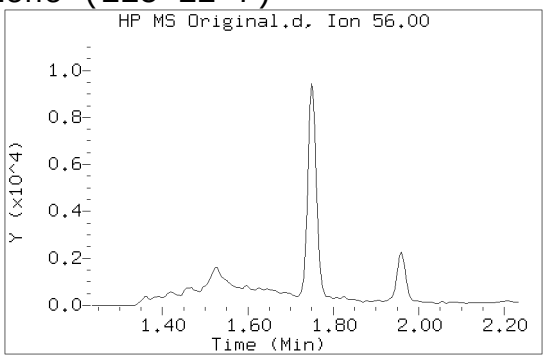
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240529.b\U052914.D
Inj Date : 29-MAY-2024 14:58
InstruID : VOA9.i
LabSampID : VSTD050

Isobutylene (115-11-7)

Reason Code:

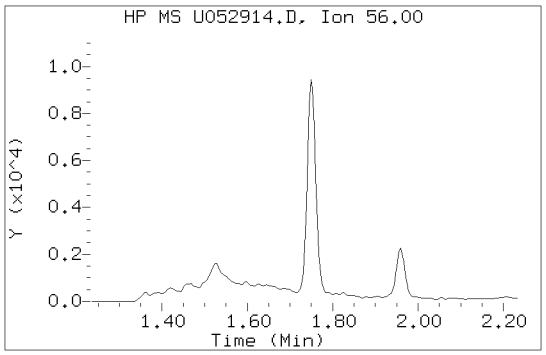
BEFORE

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AREA
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HEIGHT
0
06-Jun-2024
17:10
s
zaid



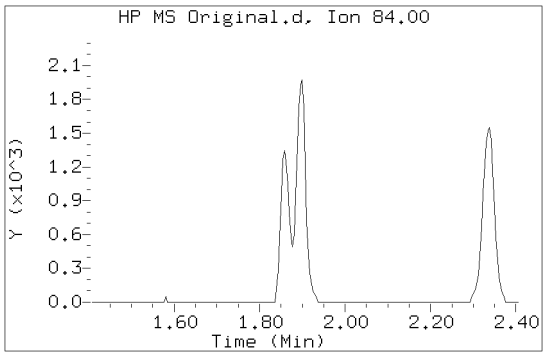
AFTER

MASS
56
AREA
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HEIGHT
0
07-Jun-2024
10:36



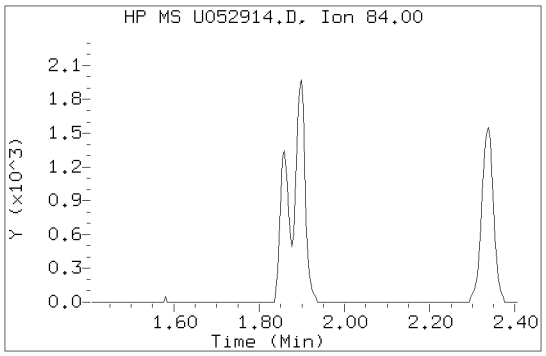
BEFORE

MASS
84
AREA
0
HEIGHT
0
06-Jun-2024
17:10
s
zaid



AFTER

MASS
84
AREA
0
HEIGHT
0
07-Jun-2024
10:36



right solutions.
right partner.

RawData

<textMethods>

Workorder

HS24051535

Client

Bhate Environmental Associates, Inc.

Project

LHAAP-58

06/24/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Data File: \\nahstws005\Target\chem\voa9.i\U240530.b\U053002.D Page 1
Report Date: 30-May-2024 16:57

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240530.b\U053002.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 30-MAY-2024 14:36
Operator : TS Inst ID: VOA9.i
Smp Info : BFB
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240530.b\bfb.m
Meth Date : 27-Jan-2023 08:08 apoluri Quant Type: ISTD
Cal Date : 30-MAR-2018 18:09 Cal File: U033003.d
Als bottle: 2 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAHSTW7066

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	2.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/l)		
RT	EXP RT	REL RT	MASS	RESPONSE			TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
9.190	9.180	(0.000)	95	78120			0.00- 100.00	100.00
9.190	9.180	(0.000)	50	14326			15.00- 40.00	18.34
9.190	9.180	(0.000)	75	37928			30.00- 60.00	48.55
9.190	9.180	(0.000)	96	5542			5.00- 9.00	7.09
9.190	9.180	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
9.190	9.180	(0.000)	174	66360			50.00- 0.00	84.95
9.190	9.180	(0.000)	175	5968			5.00- 9.00	8.99
9.190	9.180	(0.000)	176	63672			95.00- 101.00	95.95
9.190	9.180	(0.000)	177	4411			5.00- 9.00	6.93

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.34
75	30.00 - 60.00% of mass 95	48.55
96	5.00 - 9.00% of mass 95	7.09
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	84.95
175	5.00 - 9.00% of mass 174	7.64 (8.99)
176	95.00 - 101.00% of mass 174	81.51 (95.95)
177	5.00 - 9.00% of mass 176	5.65 (6.93)

Data File: U053002.D
Spectrum: Scan 2293 (9.19)
Location of Maximum: 95.05
Number of points: 106

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.10	76	62.00	3286	92.00	2109	134.90	179
36.00	739	63.00	2530	93.00	3539	136.80	156
37.10	3919	64.00	282	94.00	9457	139.70	73
38.10	3507	65.00	124	95.00	78120	140.90	688
39.00	1848	66.20	60	96.00	5542	141.80	197
40.00	406	68.00	7569	97.00	221	142.90	756
41.00	943	69.00	8116	98.10	696	143.90	71
42.00	1376	70.00	1065	99.00	59	145.80	154
43.00	831	71.00	161	102.90	64	146.90	76
44.00	764	72.10	504	103.90	325	147.90	229
45.00	1140	73.00	3259	104.90	177	148.80	54
46.00	98	74.00	12375	105.90	279	149.90	96
47.00	1187	75.00	37928	106.80	174	152.90	65
48.00	585	76.00	3506	108.80	85	154.90	204
49.10	3422	77.00	596	110.80	52	156.90	115
50.00	14326	77.90	387	111.70	63	158.80	119
51.00	4444	79.00	1830	113.10	73	161.00	91
52.00	256	79.90	715	114.90	111	170.90	113
52.90	103	80.90	1838	115.90	272	171.90	321
54.10	217	81.90	397	116.90	441	173.90	66360
55.00	2033	83.00	243	117.80	266	175.00	5968
56.00	1374	84.80	64	118.80	369	175.90	63672
57.00	2342	85.20	69	126.90	219	176.90	4411
57.90	271	85.90	129	127.90	328	177.90	151
59.00	621	86.90	3459	128.80	137	185.90	107
60.00	789	88.00	3487	129.90	332		
61.00	3493	91.00	267	130.80	111		

Data File: \\nahstws005\Target\chem\voa9.i\U240530.b\U053002.D Page 1

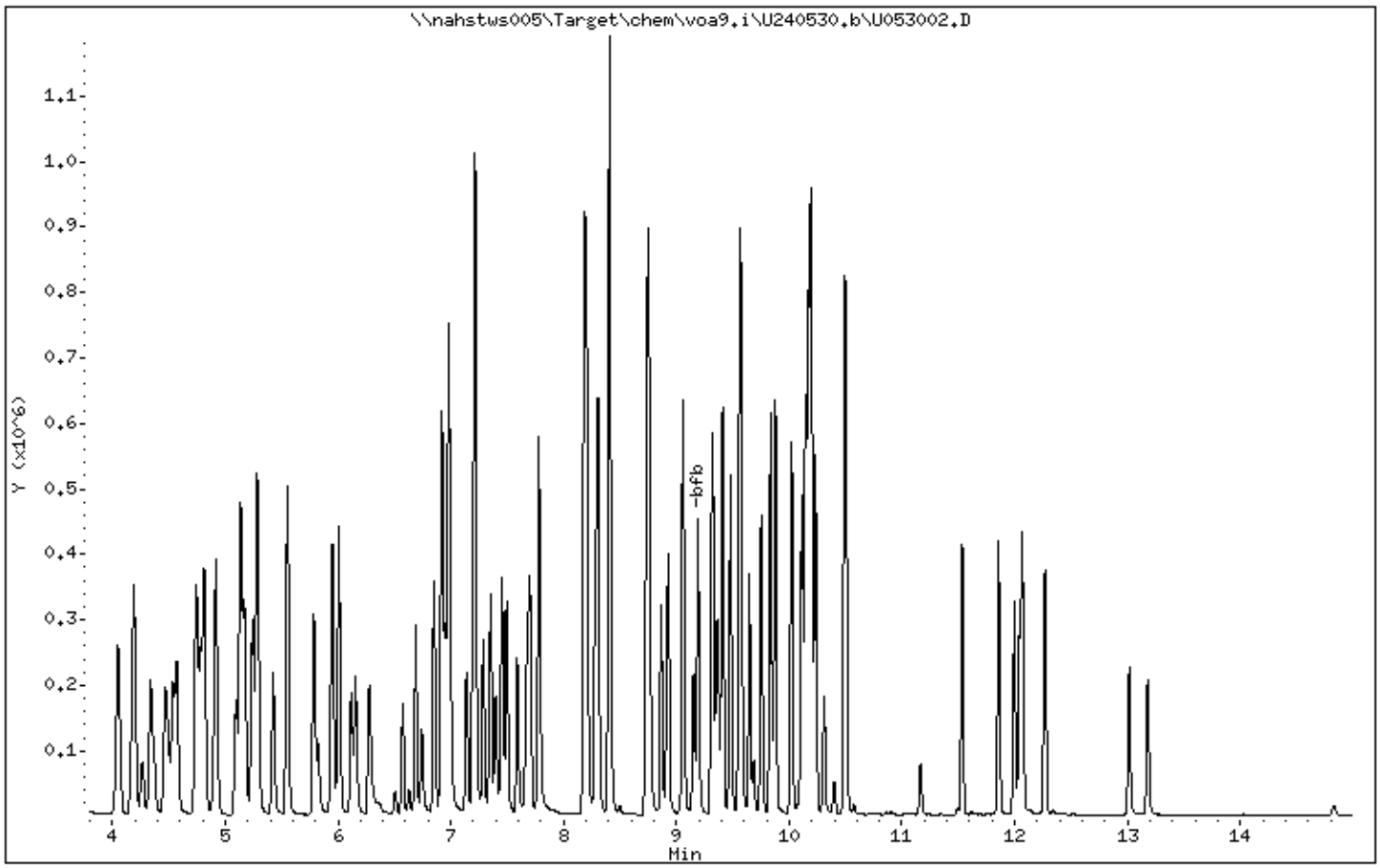
Date : 30-MAY-2024 14:36

Client ID: BFB Instrument: VOA9.i

Sample Info: BFB

Volume Injected (uL): 2.0 Operator: TS

Column phase: DB624 Column diameter: 0.25



Data File: \\nahstws005\Target\chem\voa9.i\U240530.b\U053002.D Page 2

Date : 30-MAY-2024 14:36

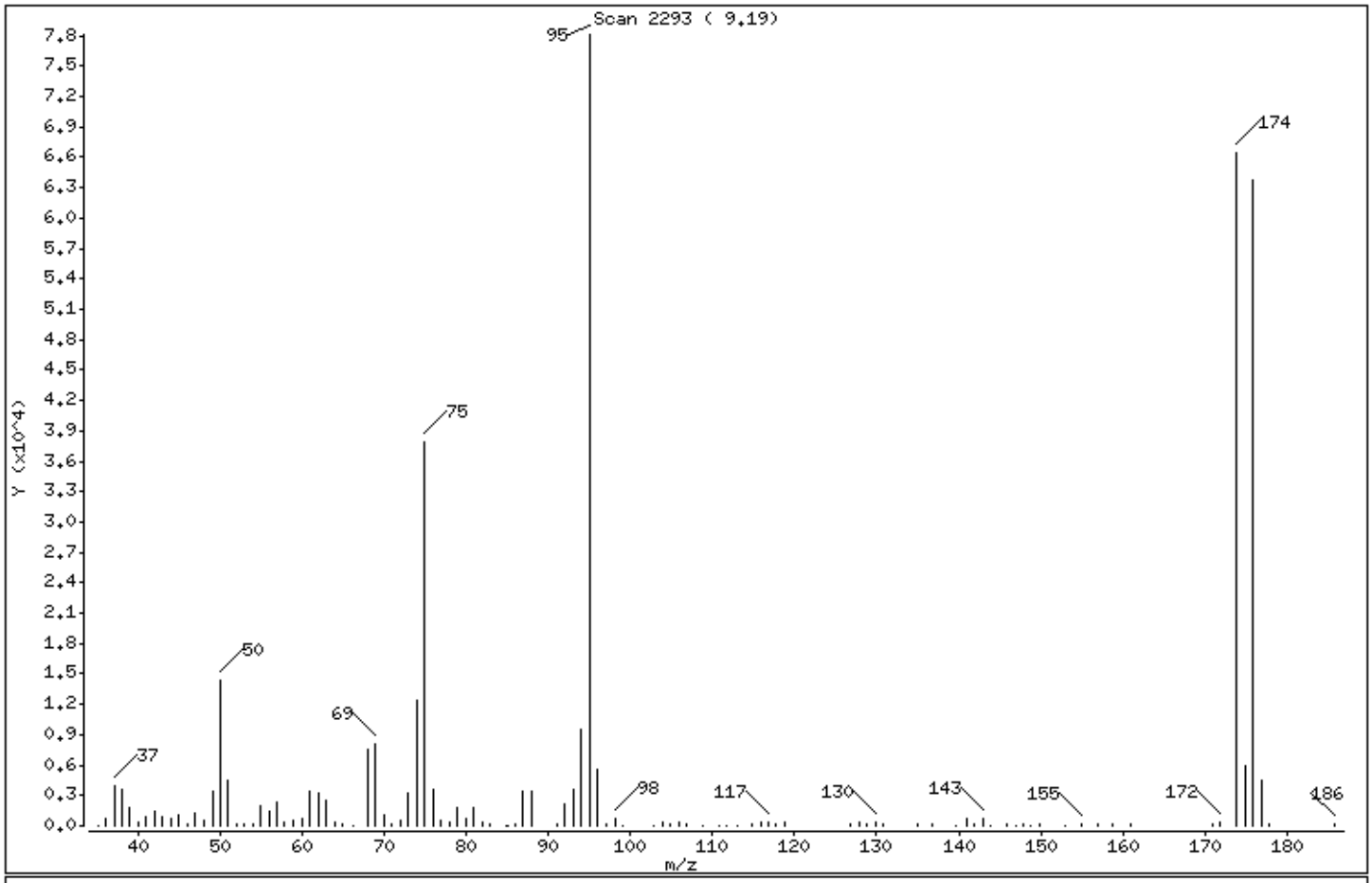
Client ID: BFB Instrument: VOA9.i

Sample Info: BFB

Volume Injected (uL): 2.0 Operator: TS

Column phase: DB624 Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.34
75	30.00 - 60.00% of mass 95	48.55
96	5.00 - 9.00% of mass 95	7.09
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	84.95
175	5.00 - 9.00% of mass 174	7.64 (8.99)
176	95.00 - 101.00% of mass 174	81.51 (95.95)
177	5.00 - 9.00% of mass 176	5.65 (6.93)

Data File: \\nahstws005\Target\chem\voa9.i\U240530.b\U053002.D Page 3

Date : 30-MAY-2024 14:36

Client ID: BFB Instrument: VOA9.i

Sample Info: BFB

Volume Injected (uL): 2.0 Operator: TS

Column phase: DB624 Column diameter: 0.25

Data File: U053002.D
Spectrum: Scan 2293 (9.19)
Location of Maximum: 95.05
Number of points: 106

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.10	76	62.00	3286	92.00	2109	134.90	179
36.00	739	63.00	2530	93.00	3539	136.80	156
37.10	3919	64.00	282	94.00	9457	139.70	73
38.10	3507	65.00	124	95.00	78120	140.90	688
39.00	1848	66.20	60	96.00	5542	141.80	197
40.00	406	68.00	7569	97.00	221	142.90	756
41.00	943	69.00	8116	98.10	696	143.90	71
42.00	1376	70.00	1065	99.00	59	145.80	154
43.00	831	71.00	161	102.90	64	146.90	76
44.00	764	72.10	504	103.90	325	147.90	229
45.00	1140	73.00	3259	104.90	177	148.80	54
46.00	98	74.00	12375	105.90	279	149.90	96
47.00	1187	75.00	37928	106.80	174	152.90	65
48.00	585	76.00	3506	108.80	85	154.90	204
49.10	3422	77.00	596	110.80	52	156.90	115
50.00	14326	77.90	387	111.70	63	158.80	119
51.00	4444	79.00	1830	113.10	73	161.00	91
52.00	256	79.90	715	114.90	111	170.90	113
52.90	103	80.90	1838	115.90	272	171.90	321
54.10	217	81.90	397	116.90	441	173.90	66360
55.00	2033	83.00	243	117.80	266	175.00	5968
56.00	1374	84.80	64	118.80	369	175.90	63672
57.00	2342	85.20	69	126.90	219	176.90	4411
57.90	271	85.90	129	127.90	328	177.90	151
59.00	621	86.90	3459	128.80	137	185.90	107
60.00	789	88.00	3487	129.90	332		
61.00	3493	91.00	267	130.80	111		

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053002.D Page 1
Report Date: 24-Jun-2024 08:29

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053002.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 30-MAY-2024 14:58
Operator : TS Inst ID: VOA9.i
Smp Info : VSTD050;VSTD050;2;;ICV
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa9.i\U240530.b\8260C.m
Meth Date : 24-Jun-2024 08:29 VOA9.i Quant Type: ISTD
Cal Date : 29-MAY-2024 11:00 Cal File: U052903.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.811	4.811	(1.000)	259371	50.0000	
2 Dichlorodifluoromethane	85	1.160	1.160	(0.241)	48577	50.0000	50.23
3 Chloromethane	50	1.291	1.291	(0.268)	176800	50.0000	51.13
4 Propionitrile	54	4.332	4.332	(0.900)	136633	500.000	480.73
5 Vinyl Chloride	62	1.374	1.374	(0.286)	92037	50.0000	46.99
6 Bromomethane	94	1.599	1.599	(0.332)	37305	50.0000	43.32
7 Chloroethane	64	1.689	1.689	(0.351)	65683	50.0000	47.97
8 Trichlorofluoromethane	101	1.887	1.887	(0.392)	113253	50.0000	48.69
9 Acrolein	56	2.259	2.259	(0.469)	9178	100.000	100.63
10 Acetone	43	2.405	2.405	(0.500)	69436	100.000	88.78
11 1,1-Dichloroethene	96	2.326	2.326	(0.483)	76316	50.0000	44.63
12 Isobutyl Alcohol	43	5.280	5.280	(1.097)	279343	1000.00	1009.37
13 Acetonitrile	39	2.667	2.667	(0.554)	97460	500.000	463.22
14 Allyl Chloride	41	2.667	2.667	(0.554)	237095	50.0000	46.67
15 Iodomethane	142	2.461	2.461	(0.512)	46484	100.000	111.46
16 Acrylonitrile	53	3.061	3.061	(0.636)	67193	100.000	93.37
17 Methylene Chloride	84	2.787	2.787	(0.579)	95941	50.0000	47.85
18 Methyl tert-butyl ether	73	3.076	3.076	(0.639)	225668	50.0000	47.00
19 Carbon Disulfide	76	2.514	2.514	(0.522)	419460	100.000	87.45
20 trans-1,2-Dichloroethene	96	3.053	3.053	(0.635)	84217	50.0000	43.55

21 Vinyl Acetate	43	4.335	4.335 (0.901)	108443	100.000	94.87
22 1,1-Dichloroethane	63	3.507	3.507 (0.729)	159860	50.0000	43.04

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
23	Chloroprene	53	3.604	3.604	(0.749)	128593	50.0000	47.21
24	2-Butanone	43	4.260	4.260	(0.885)	102734	100.000	88.63
25	Methacrylonitrile	41	4.493	4.493	(0.934)	61337	50.0000	51.69(a)
26	2,2-Dichloropropane	77	4.178	4.178	(0.868)	114597	50.0000	47.00
27	cis-1,2-Dichloroethene	96	4.189	4.189	(0.871)	101263	50.0000	42.40
28	Chloroform	83	4.568	4.568	(0.949)	163686	50.0000	44.13
29	Bromochloromethane	128	4.463	4.463	(0.928)	49463	50.0000	45.03
$ 30	Dibromofluoromethane	113	4.744	4.744	(0.986)	97213	50.0000	58.78
31	1,1,1-Trichloroethane	97	4.740	4.740	(0.985)	124476	50.0000	47.92
32	1,1-Dichloropropene	75	4.916	4.916	(0.886)	120414	50.0000	43.79
33	1,2-Dichloroethane	62	5.171	5.171	(0.932)	131135	50.0000	46.46
34	Carbon Tetrachloride	117	4.909	4.909	(0.885)	96600	50.0000	44.84
$ 35	1,2-Dichloroethane-d4	65	5.093	5.093	(1.058)	113089	50.0000	56.67
* 36	1,4-Difluorobenzene	114	5.550	5.550	(1.000)	379636	50.0000	
37	Benzene	78	5.134	5.134	(0.925)	384986	50.0000	43.05
38	Trichloroethene	130	5.786	5.786	(1.043)	94325	50.0000	42.85
39	Bromodichloromethane	83	6.277	6.277	(1.131)	108085	50.0000	44.94
40	Methyl Methacrylate	41	5.824	5.824	(1.210)	40868	50.0000	45.19
41	2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	68266	100.000	87.04
42	1,2-Dichloropropane	63	6.007	6.007	(1.082)	102299	50.0000	43.37
43	2-Nitropropane	43	6.506	6.506	(1.352)	20155	50.0000	45.31
44	Dibromomethane	93	6.116	6.116	(1.102)	59890	50.0000	43.73
45	4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	216599	100.000	93.84
46	cis-1,3-Dichloropropene	75	6.686	6.686	(1.205)	144653	50.0000	45.60
* 47	Chlorobenzene-d5	117	8.182	8.182	(1.000)	342949	50.0000	
$ 48	Toluene-d8	98	6.918	6.918	(0.846)	378214	50.0000	57.80
49	Ethyl Methacrylate	69	7.289	7.289	(1.313)	124713	50.0000	42.46
50	Toluene	91	6.978	6.978	(0.853)	381938	50.0000	41.02
51	trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	118633	50.0000	45.68
52	2-Hexanone	43	7.589	7.589	(0.928)	141020	100.000	93.96
53	1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	75872	50.0000	46.39
54	1,3-Dichloropropane	76	7.496	7.496	(0.916)	165148	50.0000	43.55
55	Dibromochloromethane	129	7.690	7.690	(0.940)	87287	50.0000	43.67
56	Tetrachloroethene	164	7.454	7.454	(0.911)	73829	50.0000	45.40
57	1,2-Dibromoethane	107	7.780	7.780	(0.951)	90858	50.0000	44.38
58	1-Chlorohexane	55	8.193	8.193	(1.476)	71122	50.0000	45.21
59	Chlorobenzene	112	8.208	8.208	(1.003)	244360	50.0000	41.34
60	1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	83909	50.0000	44.48
61	Ethylbenzene	106	8.305	8.305	(1.015)	123134	50.0000	45.15
62	m,p-Xylenes	106	8.406	8.406	(1.027)	314386	100.000	89.19
63	o-Xylene	106	8.744	8.744	(1.069)	151916	50.0000	42.96
64	Styrene	104	8.759	8.759	(1.071)	256803	50.0000	45.24
66	Bromoform	173	8.916	8.916	(1.090)	53571	50.0000	41.53
67	Isopropylbenzene	105	9.059	9.059	(1.107)	370755	50.0000	45.29
68	1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	129444	50.0000	43.21
$ 69	4-Bromofluorobenzene	95	9.190	9.190	(1.123)	136227	50.0000	57.13
* 70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	180202	50.0000	
71	1,2,3-Trichloropropane	75	9.359	9.359	(0.920)	128731	50.0000	45.83
72	trans-1,4-Dichloro-2-butene	53	9.374	9.374	(1.146)	26311	50.0000	44.90
73	n-Propylbenzene	91	9.411	9.411	(0.926)	439710	50.0000	45.27
74	Bromobenzene	156	9.317	9.317	(0.916)	106362	50.0000	42.92
75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	304294	50.0000	46.09

76	2-Chlorotoluene	91	9.479	9.479 (0.932)	264950	50.0000	46.88
77	4-Chlorotoluene	91	9.572	9.572 (0.941)	307455	50.0000	44.09

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	258494	50.0000	47.41
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	306805	50.0000	45.08
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	352210	50.0000	47.59
82	p-Isopropyltoluene	119	10.142	10.142	(0.997)	309038	50.0000	47.92
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	184683	50.0000	44.13
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	194154	50.0000	41.89
86	Benzyl Chloride	91	10.307	10.307	(1.260)	118374	50.0000	42.78
87	n-Butylbenzene	91	10.491	10.491	(1.032)	272718	50.0000	47.00
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	183390	50.0000	42.30
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	16298	50.0000	43.25
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	121182	50.0000	44.36
91	Hexachlorobutadiene	225	11.998	11.998	(1.180)	54618	50.0000	49.83
92	Naphthalene	128	12.065	12.065	(1.187)	300375	50.0000	45.37
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	111168	50.0000	43.68
146	Methyl acetate	43	2.708	2.708	(0.563)	98973	50.0000	48.22
138	Freon TF	101	2.330	2.330	(0.484)	67836	50.0000	47.12
141	Cyclohexane	56	4.778	4.778	(0.993)	116571	50.0000	47.26
142	Tetrahydrofuran	42	4.542	4.542	(0.944)	36009	100.000	97.01
147	Methylcyclohexane	55	5.944	5.944	(1.071)	210669	50.0000	45.05
135	1,4-Dioxane	88	6.165	6.165	(1.281)	23221	1000.00	875.24
132	n-Butanol	56	5.824	5.824	(1.210)	56582	1000.00	809.80
136	n-Hexane	57	3.334	3.334	(0.693)	83455	50.0000	48.31
139	Diethyl ether	59	2.142	2.142	(0.445)	66502	50.0000	48.86
148	Tert-butyl alcohol	59	2.971	2.971	(0.617)	166284	1000.00	930.96
149	Isopropyl alcohol	45	2.566	2.566	(0.533)	131564	1000.00	939.26
152	Amyl alcohol	42	7.398	7.398	(0.904)	64741	1000.00	860.03
156	Diisopropyl ether	45	3.616	3.616	(0.751)	282462	50.0000	42.65
162	Butyl acrylate	55	8.729	8.729	(1.067)	157803	50.0000	43.13
187	n-Amyl acetate	43	8.928	8.928	(1.091)	162495	50.0000	43.63
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	388626	50.0000	42.04
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	274962	50.0000	43.85
167	Ethanol	45	2.082	2.082	(0.433)	25646	1000.00	974.42
172	tert-Butyl formate	59	5.243	5.243	(1.090)	170712	100.000	83.32
173	3,3-Dimethyl-1-butanol	57	7.780	7.780	(0.951)	196275	1000.00	822.25
174	tert-Amyl methyl ether	73	5.284	5.284	(1.098)	256178	50.0000	42.21
175	tert-Butyl ethyl ether	59	4.047	4.047	(0.841)	252179	50.0000	42.51
176	tert-Amyl alcohol	59	5.243	5.243	(1.090)	170712	1000.00	823.64
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	550489	1000.00	887.65
140	1,3-Butadiene	54	1.400	1.400	(0.291)	45755	50.0000	47.67
182	Epichlorohydrin	57	6.630	6.630	(1.195)	24242	200.000	183.48
M 94	1,2-Dichloroethylene (total)	96				185480	100.000	(a)
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	124458	50.0000	45.23
130	Ethyl Acetate	43	4.335	4.335	(0.901)	108443	50.0000	45.39
131	Methyl Acrylate	55	4.365	4.365	(0.907)	111275	50.0000	46.57
189	n-Butyl acetate	43	7.702	7.702	(0.941)	158048	50.0000	43.89
134	Cyclohexanone	55	9.152	9.152	(0.900)	83827	1000.00	820.42
185	Isoprene	39	2.150	2.150	(0.447)	20053	50.0000	48.56
188	Isopropyl acetate	43	5.280	5.280	(0.951)	279343	50.0000	44.34
150	Allyl alcohol	57	3.334	3.334	(0.693)	83455	1000.00	966.23
194	Acetaldehyde	44	1.456	1.456	(0.303)	81295	200.000	189.64(M)
195	Methyl Amyl Ketone	43	8.864	8.864	(1.083)	176521	50.0000	42.25
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	50136	50.0000	31.83

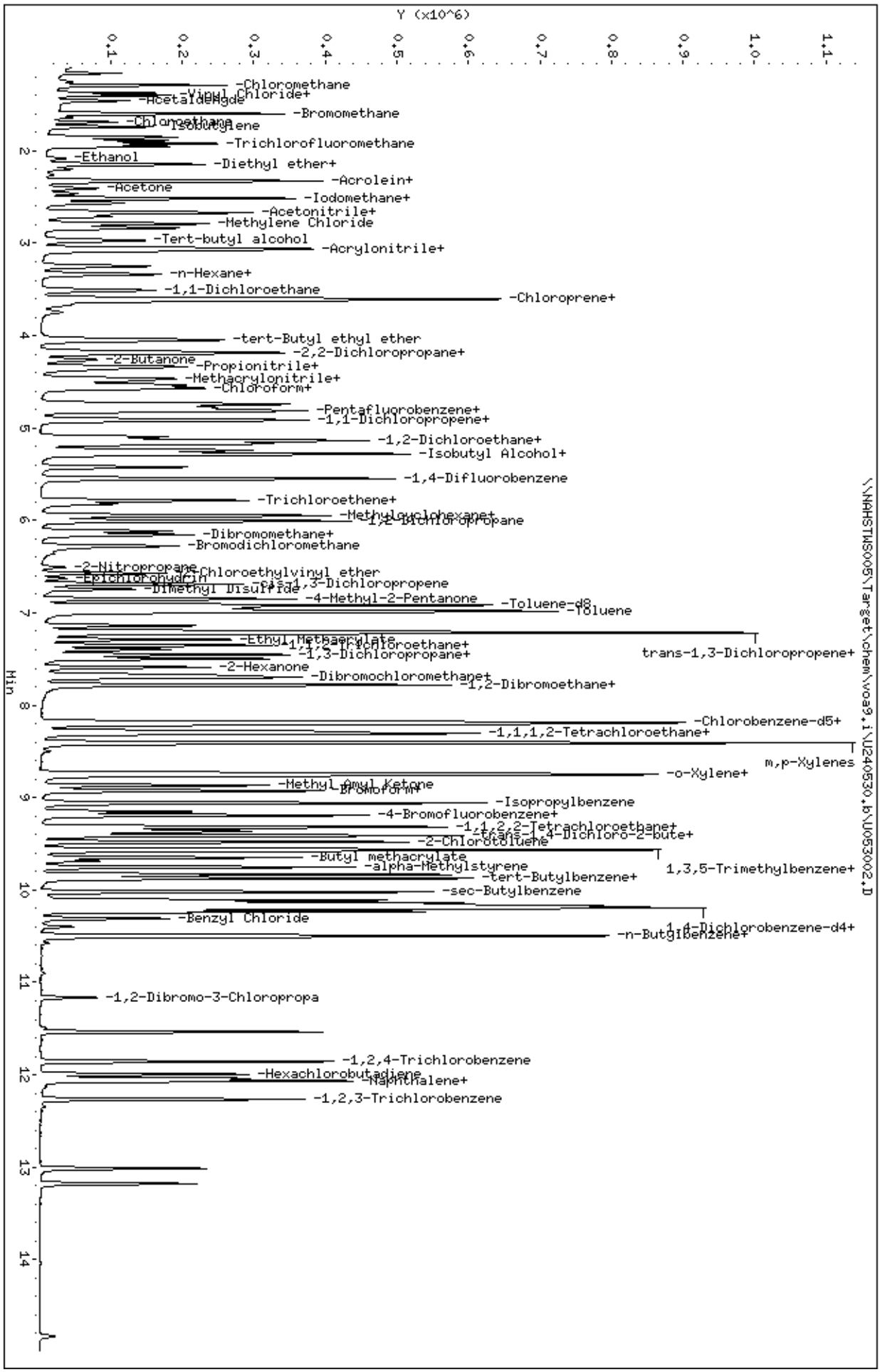
202 Isobutylene	41	1.741	1.741 (0.362)	39951	50.0000	50.09(M)
133 Ethyl Acrylate	55	5.944	5.944 (1.235)	210669	50.0000	45.88

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053002.D Page 4
Report Date: 24-Jun-2024 08:29

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
163 Butyl methacrylate	41	9.647	9.647	(0.949)	92056	50.0000	44.14
159 Propylene oxide	43	2.195	2.195	(0.456)	14567	100.000	97.99
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	95897	50.0000	43.23

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053002.D
Date : 30-MAY-2024 14:58
Client ID: VSTD050
Sample Info: VSTD050;VSTD050;2;;ICV
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

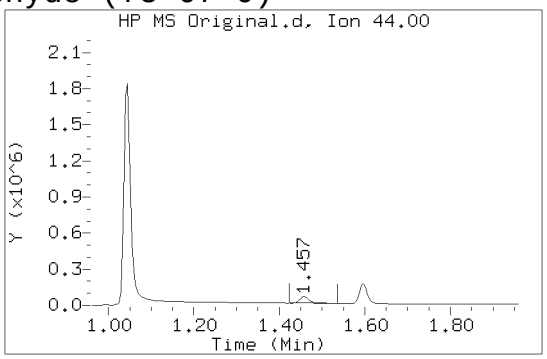
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Data File : \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053002.D
Inj Date : 30-MAY-2024 14:58
InstruID : VOA9.i
LabSampID : VSTD050

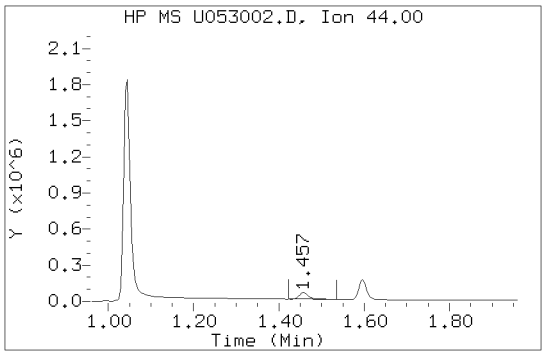
Acetaldehyde (75-07-0)

Reason Code:

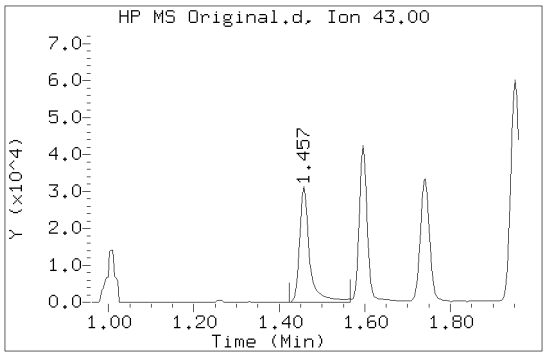
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MASS
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AREA
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HEIGHT
53829
24-Jun-2024
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patel



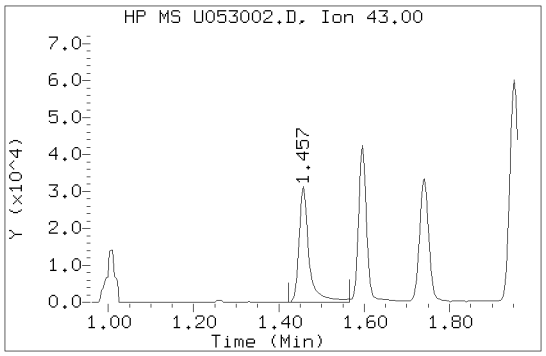
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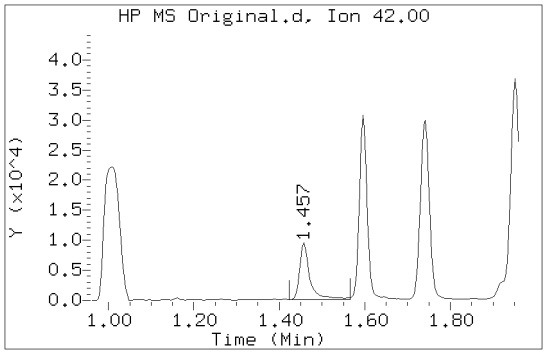
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24-Jun-2024
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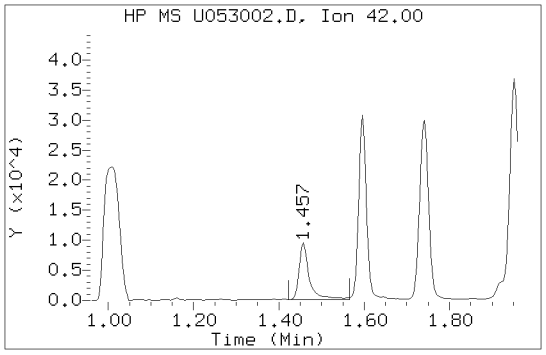
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24-Jun-2024
08:29
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patel



BEFORE
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24-Jun-2024
08:29
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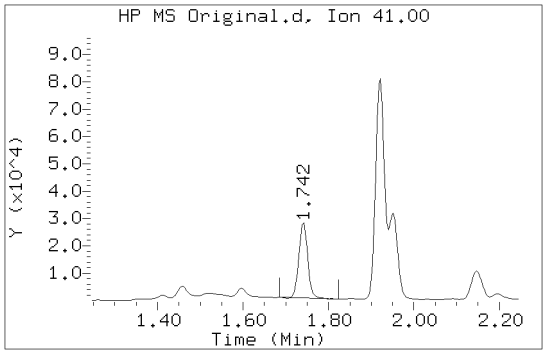
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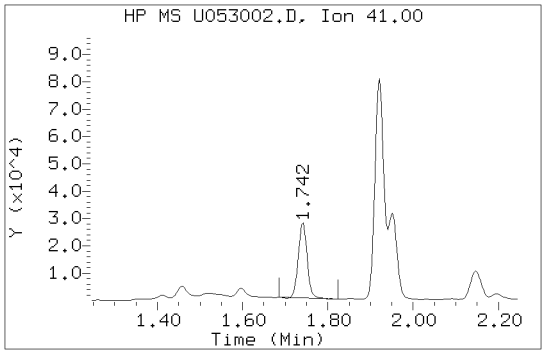
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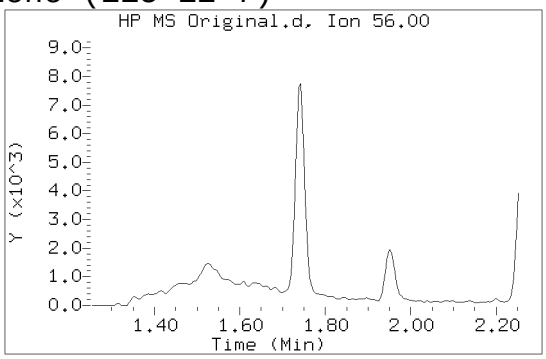
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LabSampID : VSTD050

Isobutylene (115-11-7)

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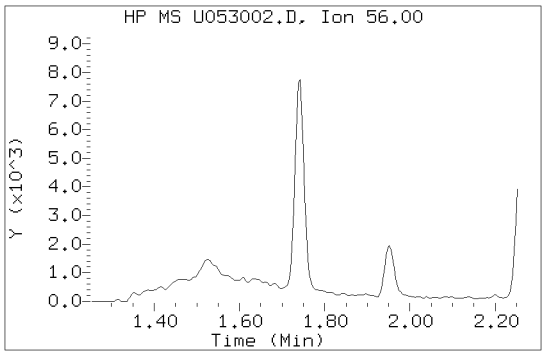
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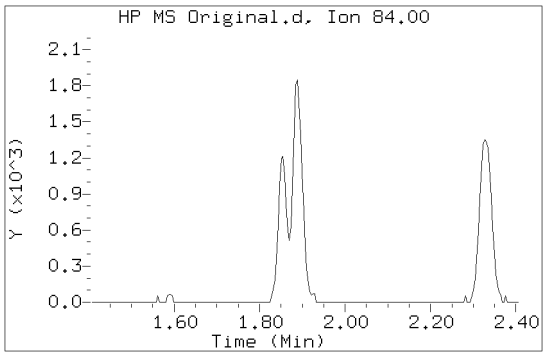
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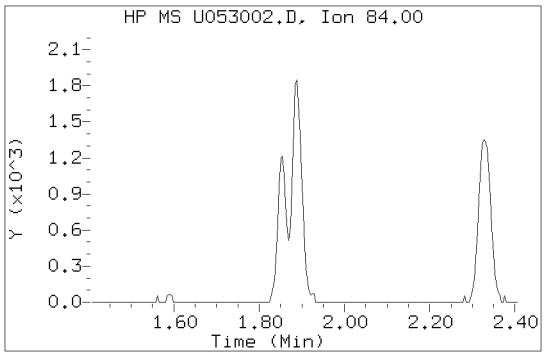
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Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053003.D Page 1
Report Date: 24-Jun-2024 08:30

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053003.D
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Smp Info : VLCSW-240530;VLCSW-240530;3;;LCS
Misc Info : V9;WATER;0;1;
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Meth Date : 24-Jun-2024 08:29 VOA9.i Quant Type: ISTD
Cal Date : 29-MAY-2024 11:00 Cal File: U052903.D
Als bottle: 3 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1	Pentafluorobenzene	168	4.819	4.811	(1.000)	257871	50.0000	
2	Dichlorodifluoromethane	85	1.172	1.160	(0.243)	20588	21.4164	21.41
3	Chloromethane	50	1.303	1.291	(0.270)	77078	22.0126	22.01
4	Propionitrile	54	4.343	4.332	(0.901)	56068	198.971	198.97(a)
5	Vinyl Chloride	62	1.385	1.374	(0.288)	39660	20.3665	20.36
6	Bromomethane	94	1.618	1.599	(0.336)	17984	19.9607	19.96
7	Chloroethane	64	1.704	1.689	(0.354)	28990	21.4466	21.44
8	Trichlorofluoromethane	101	1.903	1.887	(0.395)	48129	20.8128	20.81
9	Acrolein	56	2.270	2.259	(0.471)	3717	40.1644	40.16
10	Acetone	43	2.416	2.405	(0.501)	36535	45.9605	45.96
11	1,1-Dichloroethene	96	2.337	2.326	(0.485)	32036	18.8454	18.84
12	Isobutyl Alcohol	43	5.288	5.280	(1.097)	112160	412.029	412.02(a)
13	Acetonitrile	39	2.679	2.667	(0.556)	40894	195.498	195.49(a)
14	Allyl Chloride	41	2.679	2.667	(0.556)	98567	19.6734	19.67(a)
15	Iodomethane	142	2.472	2.461	(0.513)	20089	97.8405	97.84
16	Acrylonitrile	53	3.072	3.061	(0.638)	28874	40.3006	40.30
17	Methylene Chloride	84	2.798	2.787	(0.581)	40627	19.8206	19.82
18	Methyl tert-butyl ether	73	3.087	3.076	(0.641)	92436	19.3629	19.36
19	Carbon Disulfide	76	2.525	2.514	(0.524)	178649	37.4629	37.46
20	trans-1,2-Dichloroethene	96	3.065	3.053	(0.636)	35104	18.2621	18.26

21 Vinyl Acetate	43	4.347	4.335 (0.902)	45336	39.8942	39.89
22 1,1-Dichloroethane	63	3.518	3.507 (0.730)	66410	17.9843	17.98

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053003.D Page 2
Report Date: 24-Jun-2024 08:30

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	23 Chloroprene	53	3.612	3.604	(0.750)	54647	20.1820	20.18
	24 2-Butanone	43	4.272	4.260	(0.886)	43000	37.3135	37.31
	25 Methacrylonitrile	41	4.500	4.493	(0.934)	21334	18.4129	18.41(a)
	26 2,2-Dichloropropane	77	4.185	4.178	(0.869)	46676	19.2582	19.25
	27 cis-1,2-Dichloroethene	96	4.200	4.189	(0.872)	42647	17.9641	17.96
	28 Chloroform	83	4.575	4.568	(0.949)	67533	18.3164	18.31
	29 Bromochloromethane	128	4.470	4.463	(0.928)	21202	19.5712	19.57
$	30 Dibromofluoromethane	113	4.752	4.744	(0.986)	93376	56.8344	56.83
	31 1,1,1-Trichloroethane	97	4.744	4.740	(0.984)	51911	20.1048	20.10
	32 1,1-Dichloropropene	75	4.924	4.916	(0.887)	52141	19.2795	19.27
	33 1,2-Dichloroethane	62	5.179	5.171	(0.933)	54192	19.8693	19.86
	34 Carbon Tetrachloride	117	4.913	4.909	(0.885)	39263	18.5330	18.53
$	35 1,2-Dichloroethane-d4	65	5.100	5.093	(1.058)	109978	55.4459	55.44
*	36 1,4-Difluorobenzene	114	5.554	5.550	(1.000)	373397	50.0000	
	37 Benzene	78	5.141	5.134	(0.926)	166009	18.8754	18.87
	38 Trichloroethene	130	5.790	5.786	(1.043)	39537	18.2646	18.26
	39 Bromodichloromethane	83	6.277	6.277	(1.130)	41367	17.4881	17.48
	40 Methyl Methacrylate	41	5.827	5.824	(1.209)	16870	19.3437	19.34(a)
	41 2-Chloroethylvinyl ether	63	6.577	6.573	(1.184)	23734	33.7805	33.78
	42 1,2-Dichloropropane	63	6.011	6.007	(1.082)	42473	18.3103	18.31
	43 2-Nitropropane	43	6.510	6.506	(1.351)	7681	18.9457	18.94
	44 Dibromomethane	93	6.120	6.116	(1.102)	24700	18.3368	18.33
	45 4-Methyl-2-Pentanone	43	6.855	6.851	(0.837)	83654	37.8056	37.80
	46 cis-1,3-Dichloropropene	75	6.690	6.686	(1.205)	54009	18.1663	18.16
*	47 Chlorobenzene-d5	117	8.185	8.182	(1.000)	335824	50.0000	
$	48 Toluene-d8	98	6.922	6.918	(0.846)	355363	55.4708	55.47(M)
	49 Ethyl Methacrylate	69	7.289	7.289	(1.312)	48907	16.9330	16.93(a)
	50 Toluene	91	6.982	6.978	(0.853)	160678	17.6261	17.62
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	43290	18.0205	18.02
	52 2-Hexanone	43	7.589	7.589	(0.927)	58315	41.3393	41.33
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	31285	19.4615	19.46
	54 1,3-Dichloropropane	76	7.499	7.496	(0.916)	66690	17.9605	17.96
	55 Dibromochloromethane	129	7.691	7.690	(0.940)	32002	17.1773	17.17
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	31441	19.7482	19.74
	57 1,2-Dibromoethane	107	7.784	7.780	(0.951)	37150	18.5312	18.53
	58 1-Chlorohexane	55	8.193	8.193	(1.475)	31125	19.9811	19.98
	59 Chlorobenzene	112	8.208	8.208	(1.003)	103654	17.9087	17.90
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	33395	18.0809	18.08
	61 Ethylbenzene	106	8.305	8.305	(1.015)	52048	19.7300	19.72
	62 m,p-Xylenes	106	8.407	8.406	(1.027)	130310	37.6119	37.61
	63 o-Xylene	106	8.744	8.744	(1.068)	63480	18.7962	18.79
	64 Styrene	104	8.759	8.759	(1.070)	104013	18.7124	18.71
	66 Bromoform	173	8.916	8.916	(1.089)	18703	16.0927	16.09
	67 Isopropylbenzene	105	9.059	9.059	(1.107)	155648	19.4181	19.41
	68 1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	53737	18.3060	18.30
$	69 4-Bromofluorobenzene	95	9.194	9.190	(1.123)	131372	56.2628	56.26(M)
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	176600	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.359	(0.921)	48515	17.6246	17.62
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.374	(1.146)	10577	18.4341	18.43(a)
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	182472	19.1732	19.17
	74 Bromobenzene	156	9.317	9.317	(0.916)	44354	18.2648	18.26
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	124076	19.2847	19.28

76	2-Chlorotoluene	91	9.482	9.479 (0.933)	112116	20.2231	20.22
77	4-Chlorotoluene	91	9.576	9.572 (0.942)	129281	18.9194	18.91

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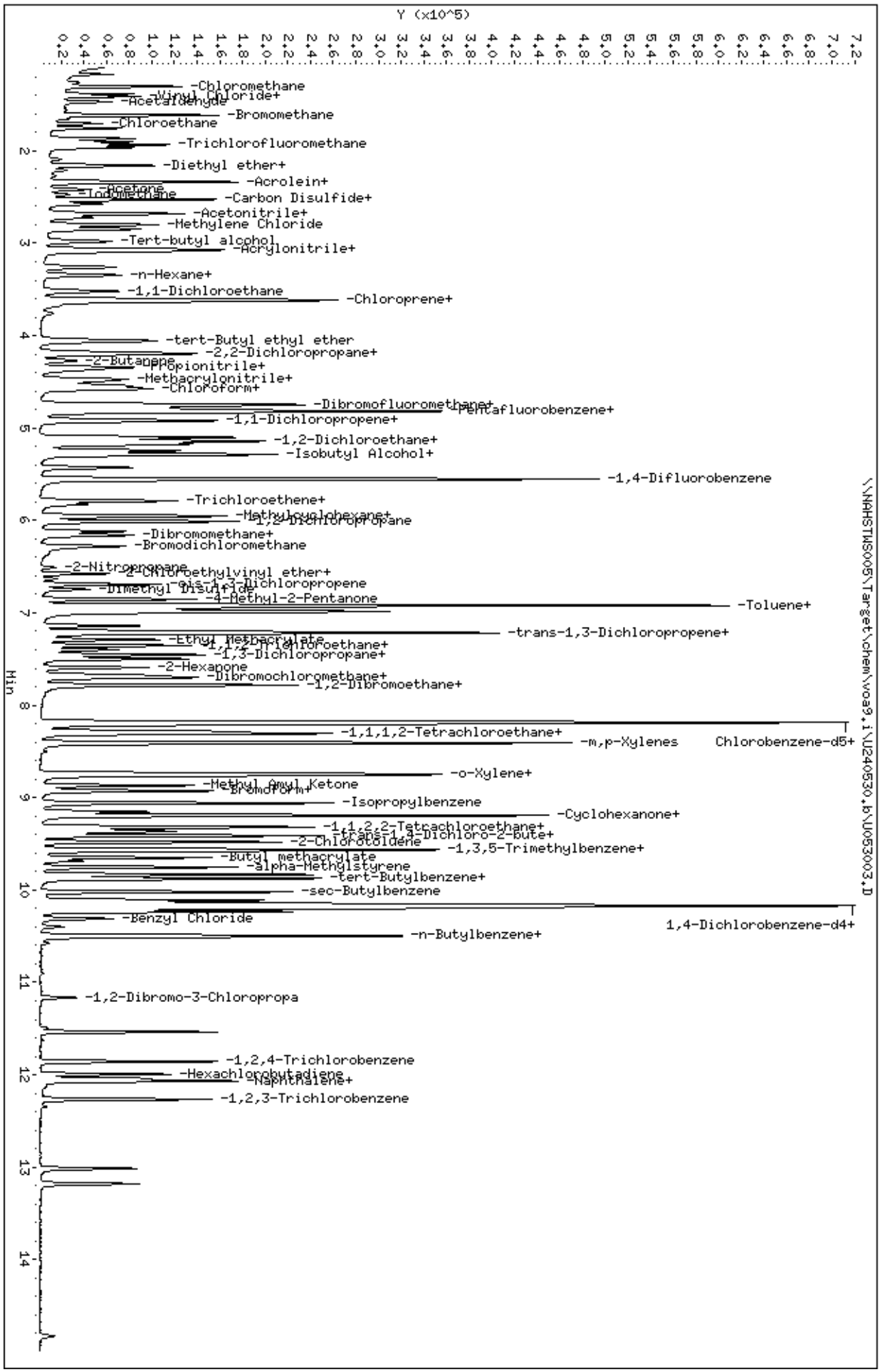
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	106642	19.9582	19.95
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	126204	18.0961	18.09
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	144248	19.8913	19.89
82	p-Isopropyltoluene	119	10.146	10.142	(0.998)	125261	19.8216	19.82
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	76994	18.7753	18.77
84	1,4-Dichlorobenzene	146	10.191	10.187	(1.002)	81084	17.8542	17.85
86	Benzyl Chloride	91	10.311	10.307	(1.260)	42522	16.8518	16.85
87	n-Butylbenzene	91	10.491	10.491	(1.032)	109435	19.7337	19.73
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	78641	18.5091	18.50
89	1,2-Dibromo-3-Chloropropane	155	11.166	11.165	(1.098)	6160	17.5955	17.59
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	49249	18.3961	18.39
91	Hexachlorobutadiene	225	11.994	11.998	(1.180)	20825	19.3874	19.38
92	Naphthalene	128	12.065	12.065	(1.187)	122494	19.0664	19.06
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	46934	18.8189	18.81
146	Methyl acetate	43	2.720	2.708	(0.564)	42476	20.9644	20.96
138	Freon TF	101	2.341	2.330	(0.486)	28437	20.4691	20.46
141	Cyclohexane	56	4.785	4.778	(0.993)	51625	20.7618	20.76
142	Tetrahydrofuran	42	4.549	4.542	(0.944)	14524	38.9700	38.96
147	Methylcyclohexane	55	5.947	5.944	(1.071)	83269	18.7965	18.79
135	1,4-Dioxane	88	6.169	6.165	(1.280)	10264	386.105	386.10
132	n-Butanol	56	5.827	5.824	(1.209)	22290	320.870	320.87(a)
136	n-Hexane	57	3.346	3.334	(0.694)	33838	20.4452	20.44
139	Diethyl ether	59	2.154	2.142	(0.447)	27081	20.0304	20.03
148	Tert-butyl alcohol	59	2.978	2.971	(0.618)	69748	391.992	391.99
149	Isopropyl alcohol	45	2.574	2.566	(0.534)	54179	391.056	391.05
152	Amyl alcohol	42	7.398	7.398	(0.904)	25701	367.567	367.56
156	Diisopropyl ether	45	3.627	3.616	(0.753)	117179	17.7971	17.79
162	Butyl acrylate	55	8.733	8.729	(1.067)	63498	18.6641	18.66
187	n-Amyl acetate	43	8.931	8.928	(1.091)	68162	18.6930	18.69
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	161560	17.8367	17.83
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	114779	19.1069	19.10
167	Ethanol	45	2.094	2.082	(0.435)	10629	407.642	407.64
172	tert-Butyl formate	59	5.246	5.243	(1.089)	68371	33.5652	33.56
173	3,3-Dimethyl-1-butanol	57	7.780	7.780	(0.951)	80199	343.108	343.10
174	tert-Amyl methyl ether	73	5.288	5.284	(1.097)	106982	17.7302	17.73
175	tert-Butyl ethyl ether	59	4.054	4.047	(0.841)	102014	17.2969	17.29
176	tert-Amyl alcohol	59	5.246	5.243	(1.089)	68371	331.791	331.79
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.299)	216198	370.689	370.68
140	1,3-Butadiene	54	1.411	1.400	(0.293)	20368	21.3477	21.34
182	Epichlorohydrin	57	6.630	6.630	(1.194)	9560	77.0225	77.02
M 94	1,2-Dichloroethylene (total)	96				77751	36.1949	36.19
M 95	Xylenes (total)	106				193790	57.1385	57.13
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	48418	18.6179	18.61
130	Ethyl Acetate	43	4.347	4.335	(0.902)	45336	19.0880	19.08
131	Methyl Acrylate	55	4.377	4.365	(0.908)	45630	19.4292	19.42
189	n-Butyl acetate	43	7.706	7.702	(0.941)	62909	17.8439	17.84
134	Cyclohexanone	55	9.152	9.152	(0.900)	39130	398.661	398.66(a)
185	Isoprene	39	2.161	2.150	(0.449)	8742	22.0193	22.01
188	Isopropyl acetate	43	5.288	5.280	(0.952)	110258	17.7963	17.79
150	Allyl alcohol	57	3.346	3.334	(0.694)	33838	408.903	408.90
194	Acetaldehyde	44	1.468	1.456	(0.305)	73213	172.292	172.29
195	Methyl Amyl Ketone	43	8.868	8.864	(1.083)	74830	18.2915	18.29

200 Dimethyl Disulfide	94	6.746	6.742 (0.824)	16073	13.9934	13.99	
133 Ethyl Acrylate	55	5.947	5.944 (1.234)	83269	18.8997	18.89	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
163 Butyl methacrylate	41	9.647	9.647	(0.949)	45031	22.0368	22.03
159 Propylene oxide	43	2.206	2.195	(0.458)	7096	48.0706	48.07
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	35325	17.6401	17.64

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Instrument: VOA9,i
Operator: TS
Column diameter: 0.18

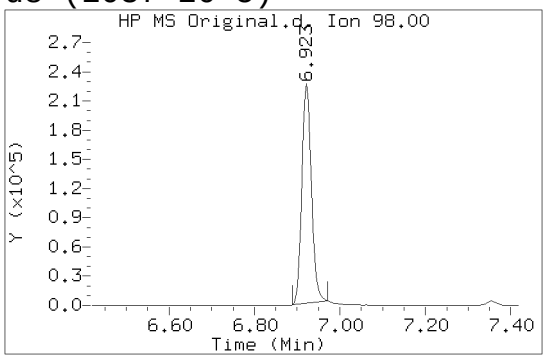
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LabSampID : VLCSW-240530

Toluene-d8 (2037-26-5)

Reason Code:

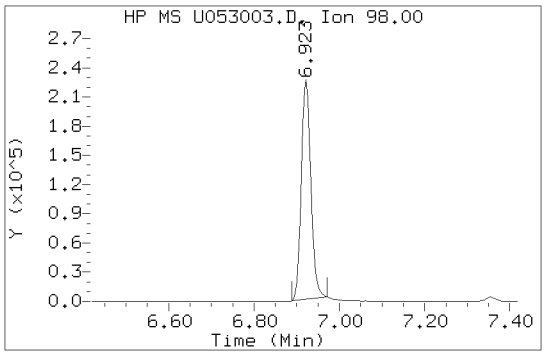
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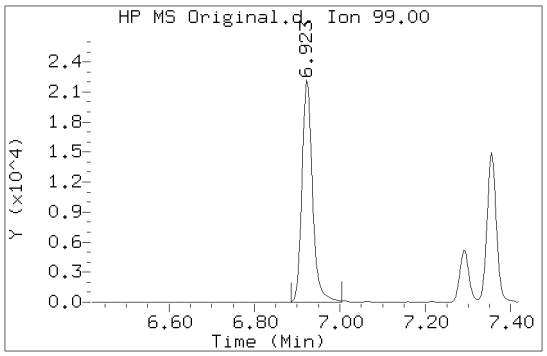
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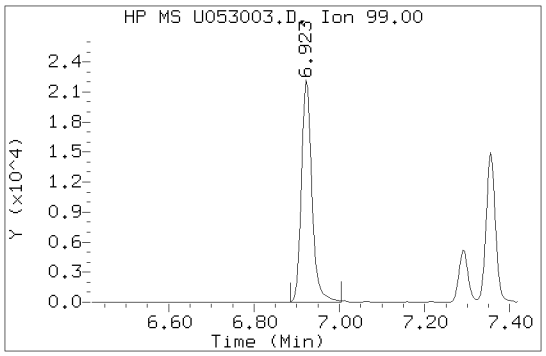
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patel



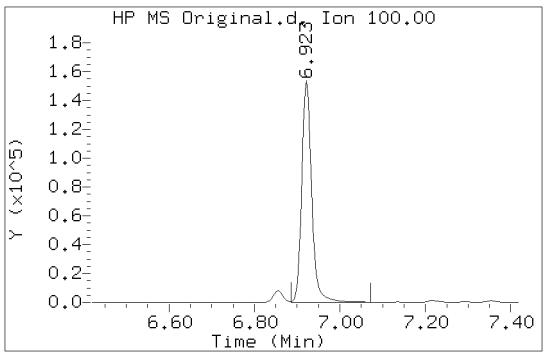
AFTER

MASS
99
AREA
38589
HEIGHT
22200
24-Jun-2024
08:29
r
patel



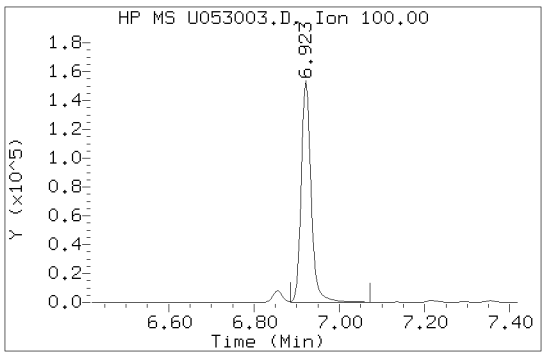
BEFORE

MASS
100
AREA
251914
HEIGHT
153665
24-Jun-2024
08:29
r
patel



AFTER

MASS
100
AREA
251914
HEIGHT
153665
24-Jun-2024
08:29
r
patel

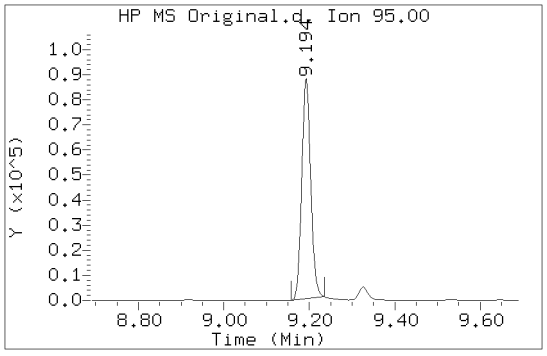


4-Bromofluorobenzene (460-00-4)

Reason Code:

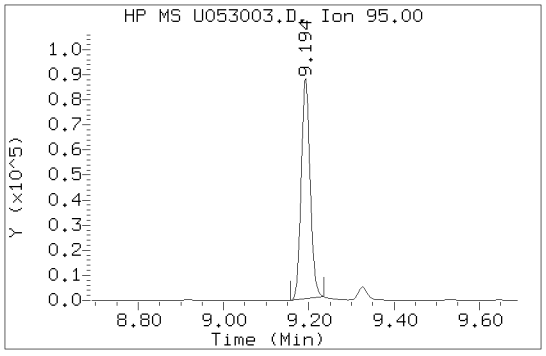
BEFORE

MASS
95
AREA
131372
HEIGHT
87726
24-Jun-2024
08:29
r
patel



AFTER

MASS
95
AREA
131372
HEIGHT
87726
24-Jun-2024
08:29
r
patel



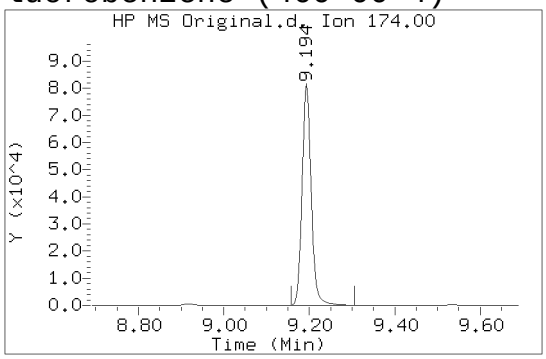
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053003.D
Inj Date : 30-MAY-2024 15:19
InstruID : VOA9.i
LabSampID : VLCSW-240530

4-Bromofluorobenzene (460-00-4)

Reason Code:

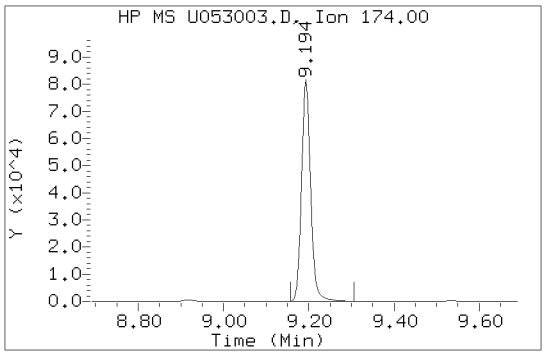
BEFORE

MASS
174
AREA
124516
HEIGHT
81648
24-Jun-2024
08:29
r
patel



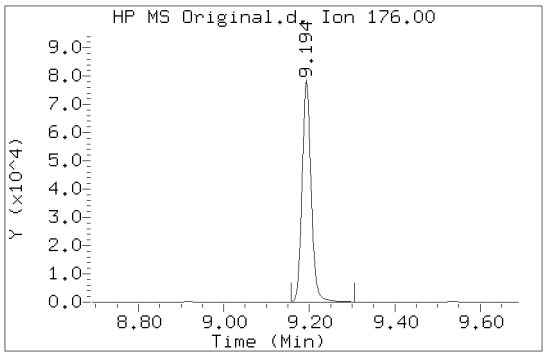
AFTER

MASS
174
AREA
124516
HEIGHT
81648
24-Jun-2024
08:29
r
patel



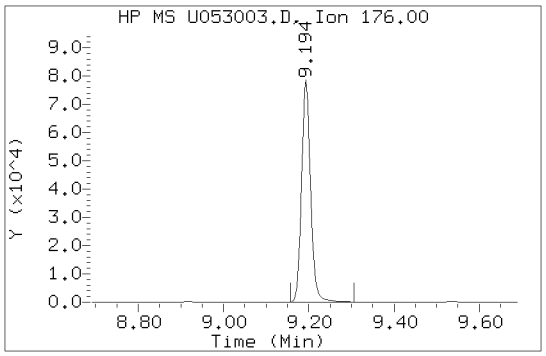
BEFORE

MASS
176
AREA
118890
HEIGHT
78624
24-Jun-2024
08:29
r
patel



AFTER

MASS
176
AREA
118890
HEIGHT
78624
24-Jun-2024
08:29
r
patel



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053006.D Page 1
Report Date: 24-Jun-2024 08:30

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053006.D
Lab Smp Id: VBLKW-240530 Client Smp ID: VBLKW-240530
Inj Date : 30-MAY-2024 16:25
Operator : TS Inst ID: VOA9.i
Smp Info : VBLKW-240530;VBLKW-240530;3;;BLANK
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240530.b\8260C.m
Meth Date : 24-Jun-2024 08:29 VOA9.i Quant Type: ISTD
Cal Date : 29-MAY-2024 11:00 Cal File: U052903.D
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.808	4.811	(1.000)	256457	50.0000	
$ 30 Dibromofluoromethane	113	4.744	4.744	(0.987)	91148	55.8073	55.80
$ 35 1,2-Dichloroethane-d4	65	5.093	5.093	(1.059)	114741	58.1449	58.14
* 36 1,4-Difluorobenzene	114	5.546	5.550	(1.000)	374060	50.0000	
* 47 Chlorobenzene-d5	117	8.182	8.182	(1.000)	336108	50.0000	
$ 48 Toluene-d8	98	6.918	6.918	(0.846)	358899	55.9735	55.97(M)
$ 69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	131699	56.3554	56.35
* 70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	171697	50.0000	

QC Flag Legend

M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053006.D

Date : 30-MAY-2024 16:25

Client ID: VBLKW-240530

Instrument: VOA9.i

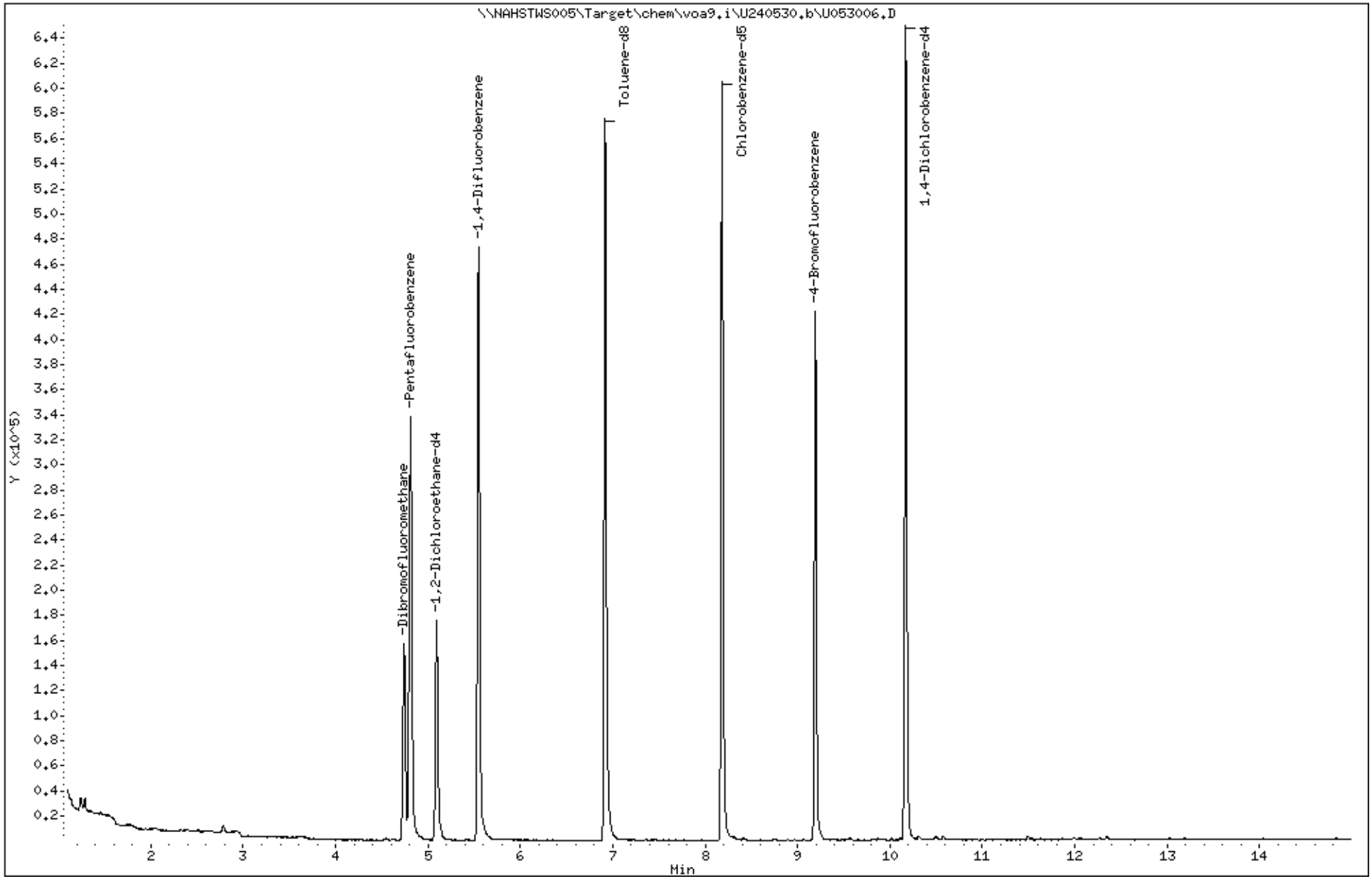
Sample Info: VBLKW-240530;VBLKW-240530;3;;BLANK

Purge Volume: 5.0

Operator: TS

Column phase: DB624

Column diameter: 0.18

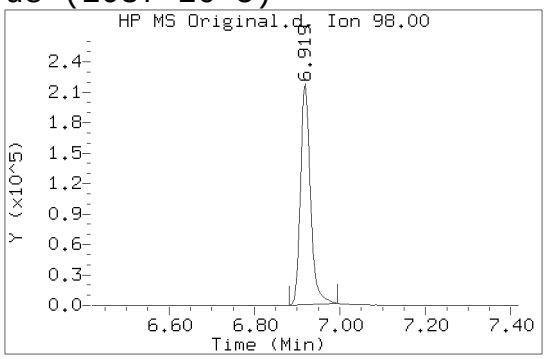


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053006.D
Inj Date : 30-MAY-2024 16:25
InstruID : VOA9.i
LabSampID : VBLKW-240530

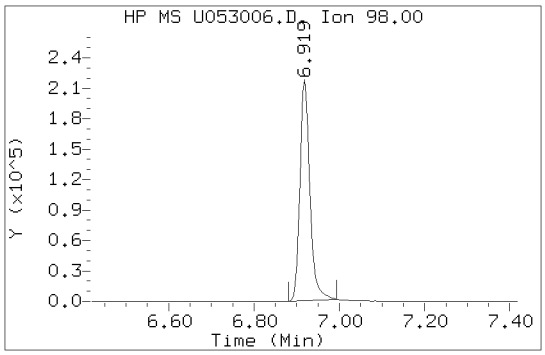
Toluene-d8 (2037-26-5)

Reason Code:

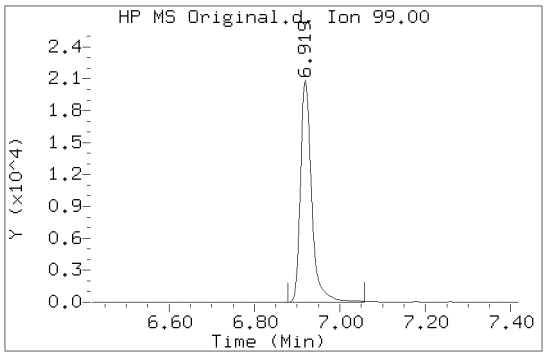
BEFORE
MASS
98
AREA
358899
HEIGHT
217695
24-Jun-2024
08:29
r
patel



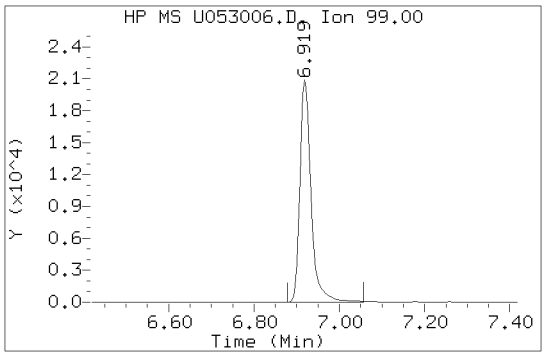
AFTER
MASS
98
AREA
358899
HEIGHT
217695
24-Jun-2024
08:29
r
patel



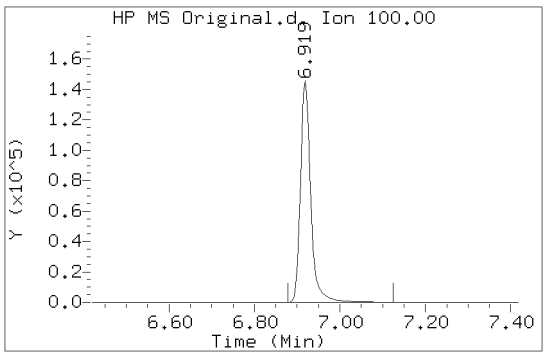
BEFORE
MASS
99
AREA
38704
HEIGHT
20896
24-Jun-2024
08:29
r
patel



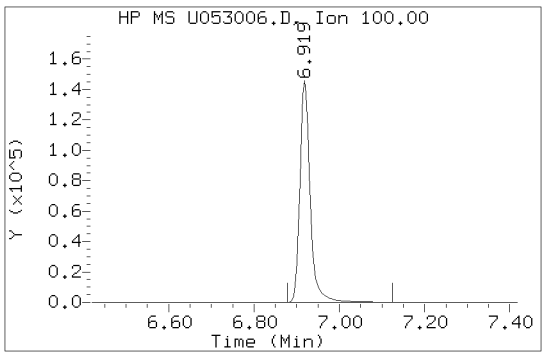
AFTER
MASS
99
AREA
38704
HEIGHT
20896
24-Jun-2024
08:29
r
patel



BEFORE
MASS
100
AREA
249300
HEIGHT
145792
24-Jun-2024
08:29
r
patel



AFTER
MASS
100
AREA
249300
HEIGHT
145792
24-Jun-2024
08:29
r
patel



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053008.D Page 1
Report Date: 24-Jun-2024 09:19

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053008.D
Lab Smp Id: HS24051535-08
Inj Date : 30-MAY-2024 17:08
Operator : TS   Inst ID: VOA9.i
Smp Info : HS24051535-08
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240530.b\8260C.m
Meth Date : 24-Jun-2024 09:18 r.patel   Quant Type: ISTD
Cal Date : 29-MAY-2024 11:00   Cal File: U052903.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.819	4.815	(1.000)	241519	50.0000	
$ 30 Dibromofluoromethane	113	4.751	4.748	(0.986)	86810	56.4247	56.42
$ 35 1,2-Dichloroethane-d4	65	5.100	5.096	(1.058)	108759	58.5195	58.51(M)
* 36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	357067	50.0000	
* 47 Chlorobenzene-d5	117	8.185	8.182	(1.000)	319223	50.0000	
$ 48 Toluene-d8	98	6.922	6.918	(0.846)	337045	55.3479	55.34(M)
$ 69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	123202	55.5065	55.50
* 70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	161439	50.0000	

QC Flag Legend

M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053008.D

Date : 30-MAY-2024 17:08

Client ID:

Instrument: VOA9.i

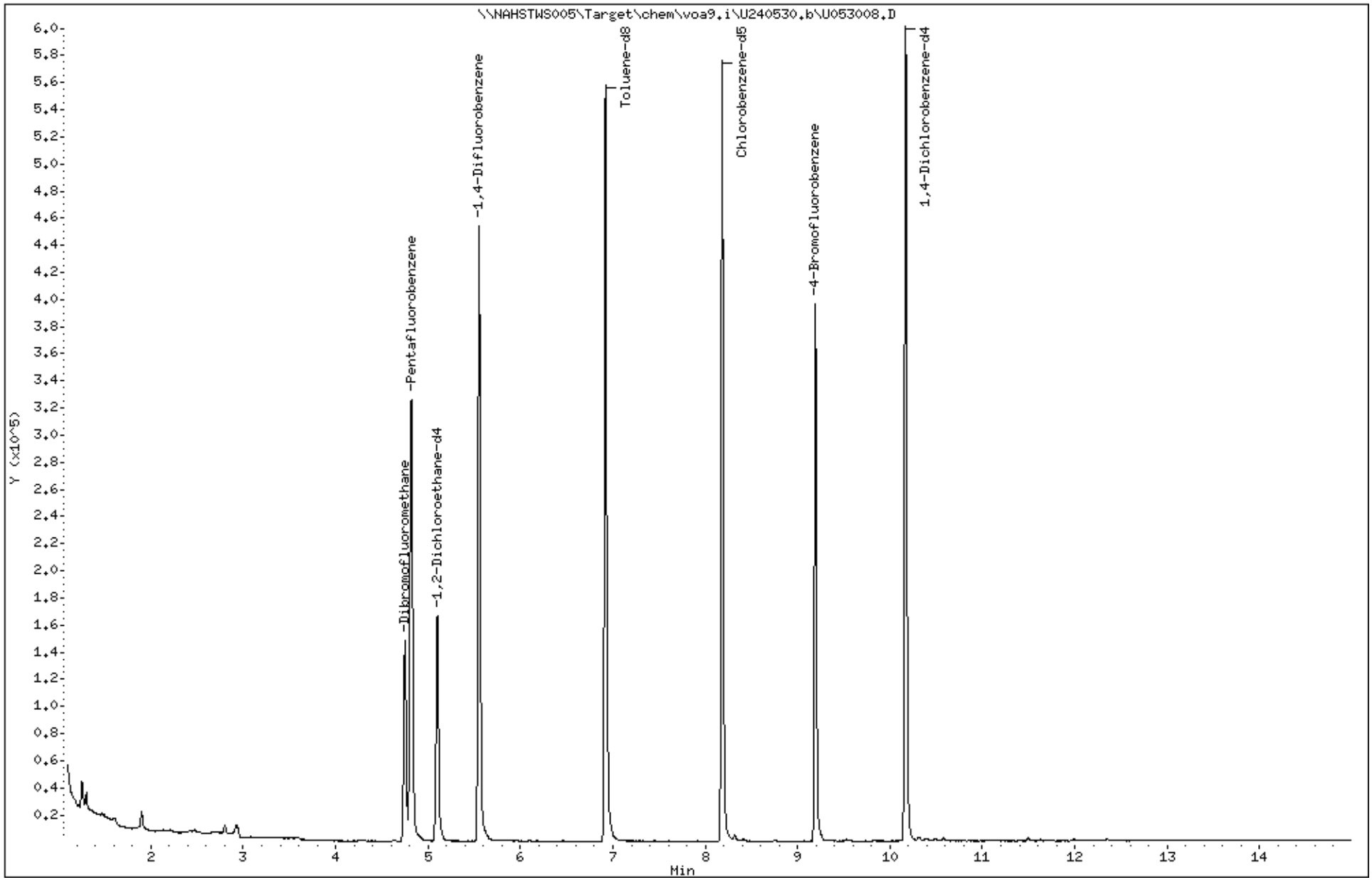
Sample Info: HS24051535-08

Purge Volume: 5.0

Operator: TS

Column phase: DB624

Column diameter: 0.18



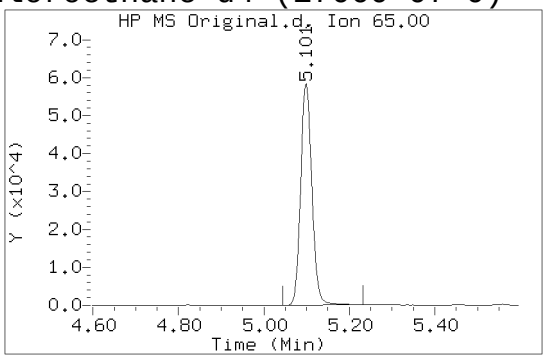
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053008.D
Inj Date : 30-MAY-2024 17:08
InstruID : VOA9.i
LabSampID : HS24051535-08

1,2-Dichloroethane-d4 (17060-07-0)

Reason Code:

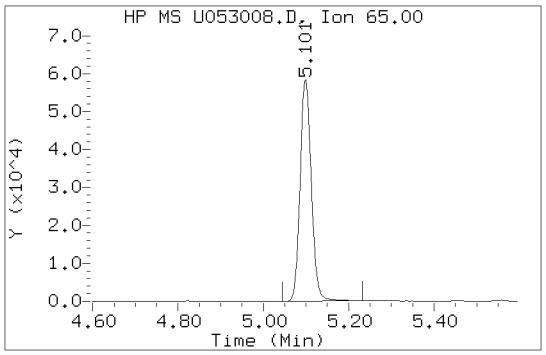
BEFORE

MASS
65
AREA
108759
HEIGHT
58367
24-Jun-2024
09:19
RUCHA
PATEL



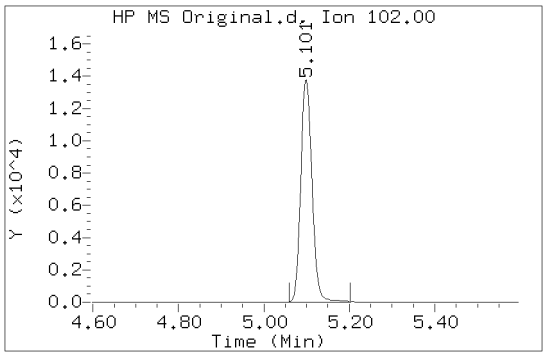
AFTER

MASS
65
AREA
108759
HEIGHT
58367
24-Jun-2024
09:19
RUCHA
PATEL



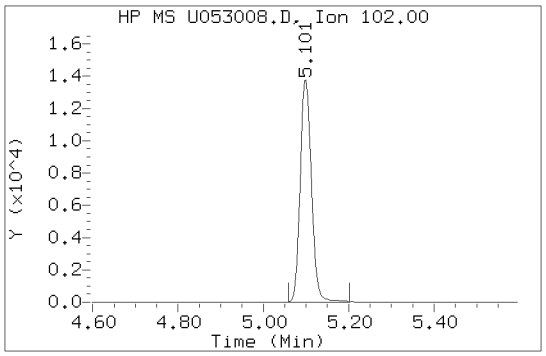
BEFORE

MASS
102
AREA
25791
HEIGHT
13773
24-Jun-2024
09:19
RUCHA
PATEL



AFTER

MASS
102
AREA
25791
HEIGHT
13773
24-Jun-2024
09:19
RUCHA
PATEL

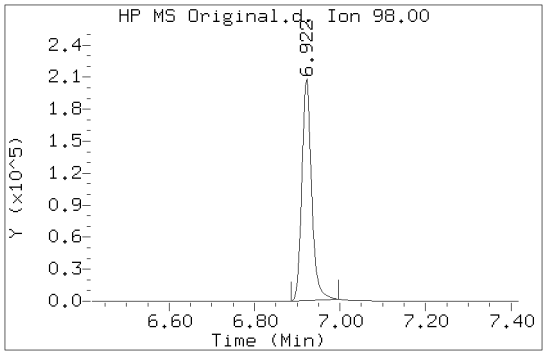


Toluene-d8 (2037-26-5)

Reason Code:

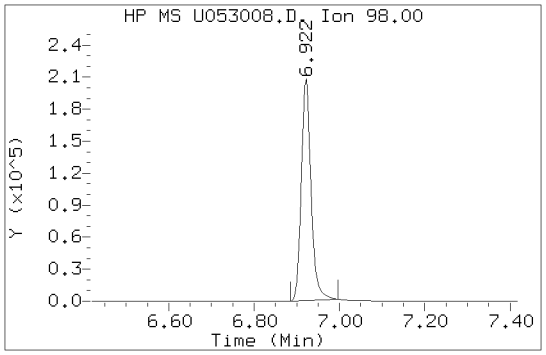
BEFORE

MASS
98
AREA
337045
HEIGHT
207597
24-Jun-2024
09:19
RUCHA
PATEL



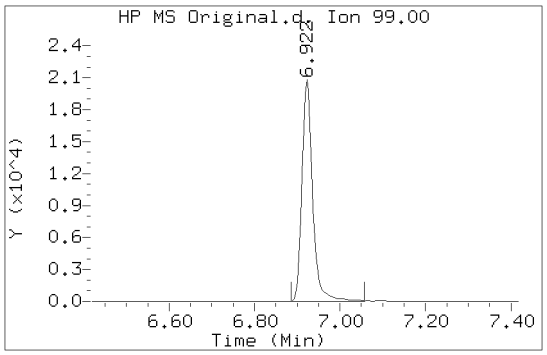
AFTER

MASS
98
AREA
337045
HEIGHT
207597
24-Jun-2024
09:19
RUCHA
PATEL



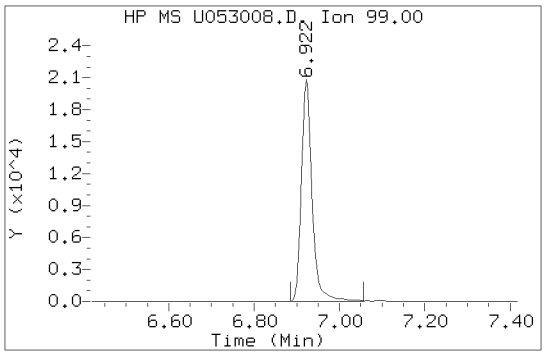
BEFORE

MASS
99
AREA
37036
HEIGHT
20824
24-Jun-2024
09:19
RUCHA
PATEL



AFTER

MASS
99
AREA
37036
HEIGHT
20824
24-Jun-2024
09:19
RUCHA
PATEL



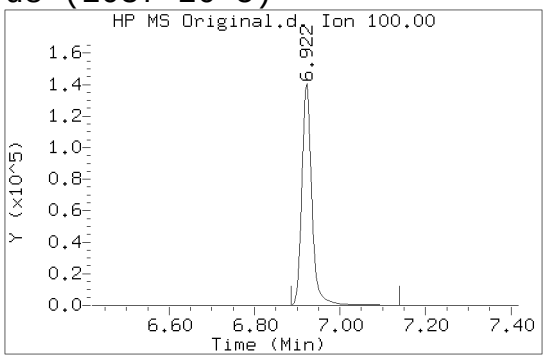
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053008.D
Inj Date : 30-MAY-2024 17:08
InstruID : VOA9.i
LabSampID : HS24051535-08

Toluene-d8 (2037-26-5)

Reason Code:

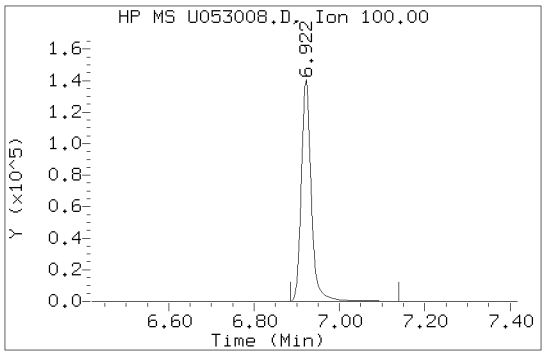
BEFORE

MASS
100
AREA
232285
HEIGHT
140453
24-Jun-2024
09:19
RUCHA
PATEL



AFTER

MASS
100
AREA
232285
HEIGHT
140453
24-Jun-2024
09:19
RUCHA
PATEL



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053013.D Page 1
Report Date: 24-Jun-2024 09:19

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053013.D
Lab Smp Id: HS24051535-01
Inj Date : 30-MAY-2024 18:56
Operator : TS   Inst ID: VOA9.i
Smp Info : HS24051535-01
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240530.b\8260C.m
Meth Date : 24-Jun-2024 09:18 r.patel   Quant Type: ISTD
Cal Date : 29-MAY-2024 11:00   Cal File: U052903.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

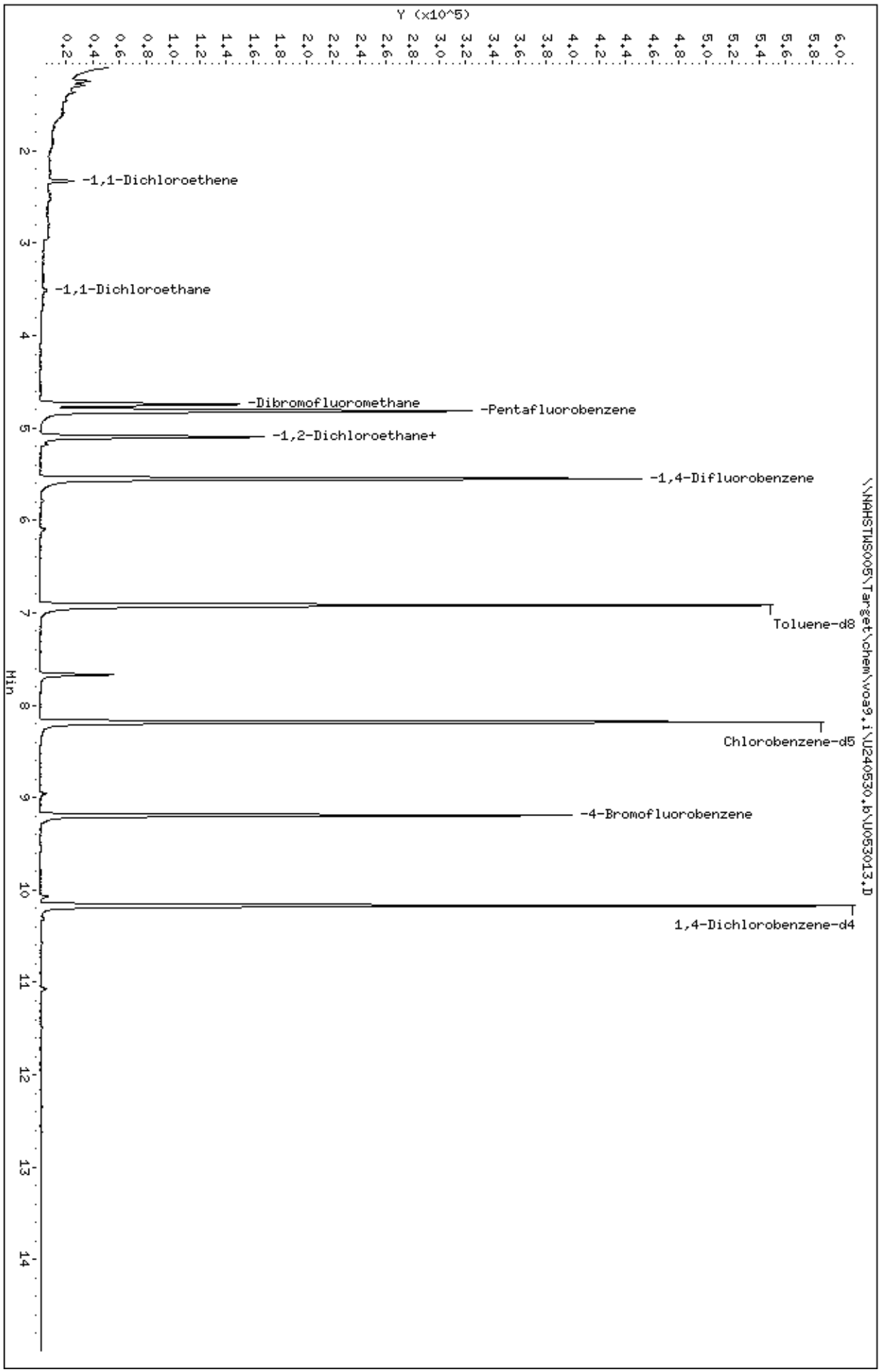
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.812	4.815	(1.000)	240383	50.0000	
11 1,1-Dichloroethene	96	2.330	2.337	(0.484)	5987	3.77812	3.77
22 1,1-Dichloroethane	63	3.503	3.515	(0.728)	3020	0.87733	0.87
$ 30 Dibromofluoromethane	113	4.744	4.748	(0.986)	88340	57.6614	57.66
33 1,2-Dichloroethane	62	5.171	5.175	(0.932)	2921	1.69122	1.69
$ 35 1,2-Dichloroethane-d4	65	5.093	5.096	(1.058)	108810	58.8214	58.82(M)
* 36 1,4-Difluorobenzene	114	5.550	5.554	(1.000)	355215	50.0000	
* 47 Chlorobenzene-d5	117	8.182	8.182	(1.000)	322939	50.0000	
$ 48 Toluene-d8	98	6.918	6.918	(0.846)	341499	55.4337	55.43(M)
$ 69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	122801	54.6877	54.68
* 70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	160572	50.0000	

QC Flag Legend

M - Compound response manually integrated.


Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053013.D
Date : 30-MAY-2024 18:56
Client ID:
Sample Info: HS24051535-01
Purge Volume: 5.0
Column phase: DB624
Instrument: VOA9.i
Operator: TS
Column diameter: 0.18
Y (x10^5)
Min
-1,1-Dichloroethene
-1,1-Dichloroethane
-Dibromofluoromethane
-Pentafluorobenzene
-1,2-Dichloroethane+
-1,4-Difluorobenzene
Toluene-d8
Chlorobenzene-d5
-4-Bromofluorobenzene
1,4-Dichlorobenzene-d4
\\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053013.D

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053013.D

Date : 30-MAY-2024 18:56

Client ID:

Instrument: VOA9.i

Sample Info: HS24051535-01

Purge Volume: 5.0

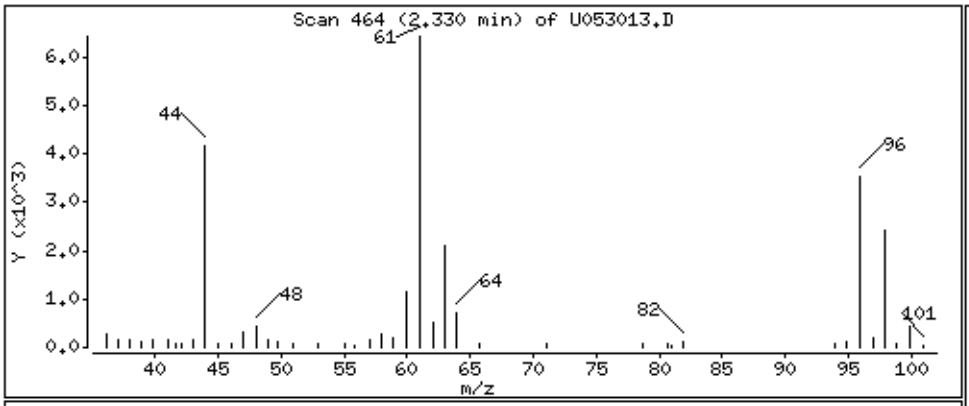
Operator: TS

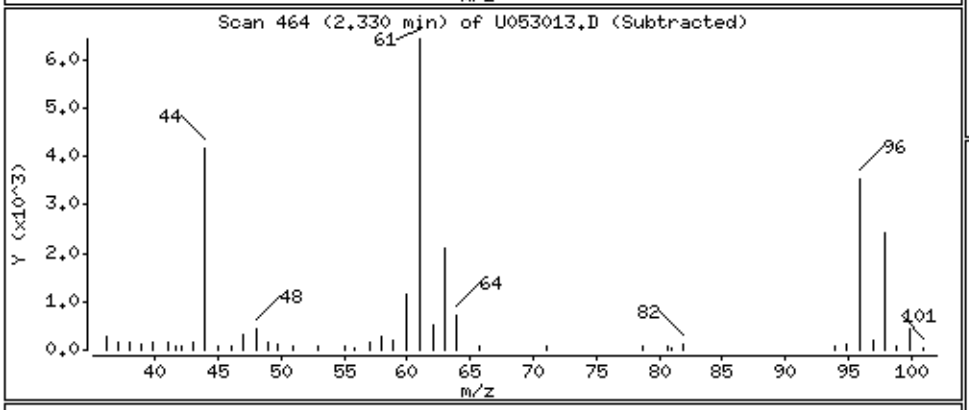
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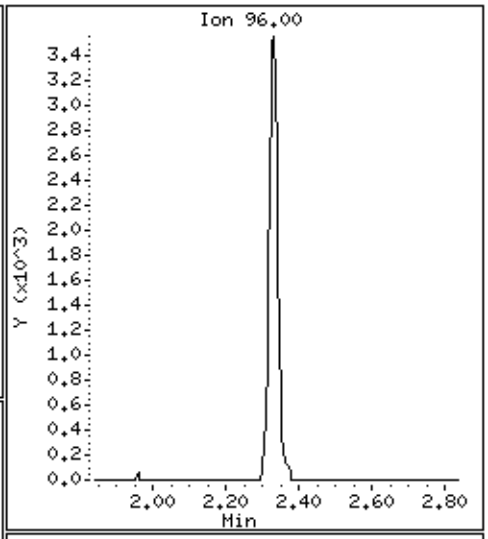
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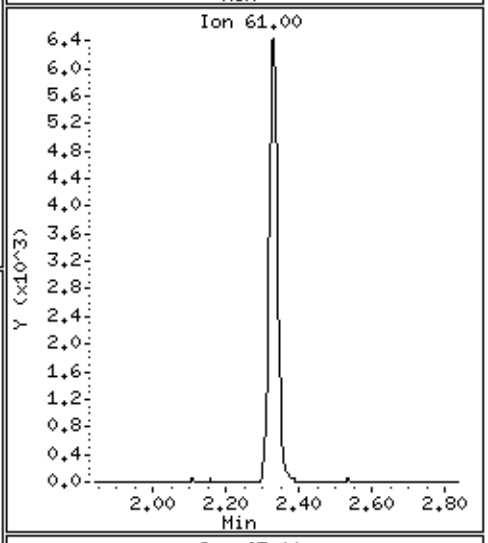
11 1,1-Dichloroethene

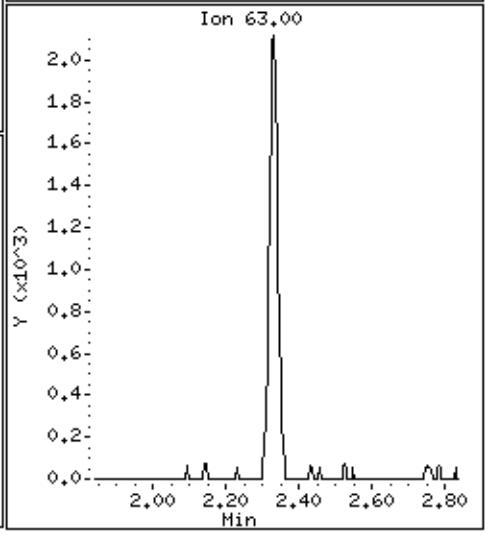
Concentration: 3.77 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053013.D Page 3

Date : 30-MAY-2024 18:56

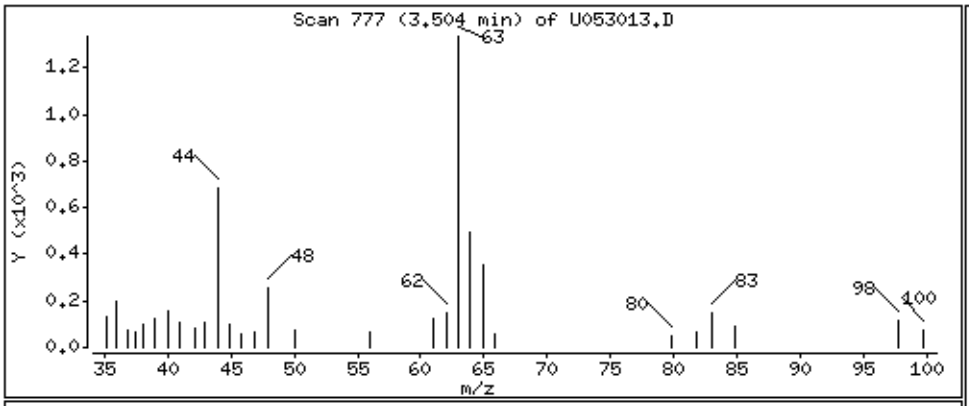
Client ID: Instrument: VOA9.i

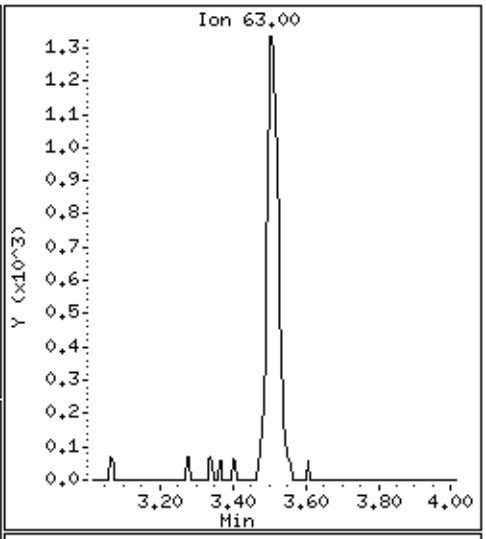
Sample Info: HS24051535-01

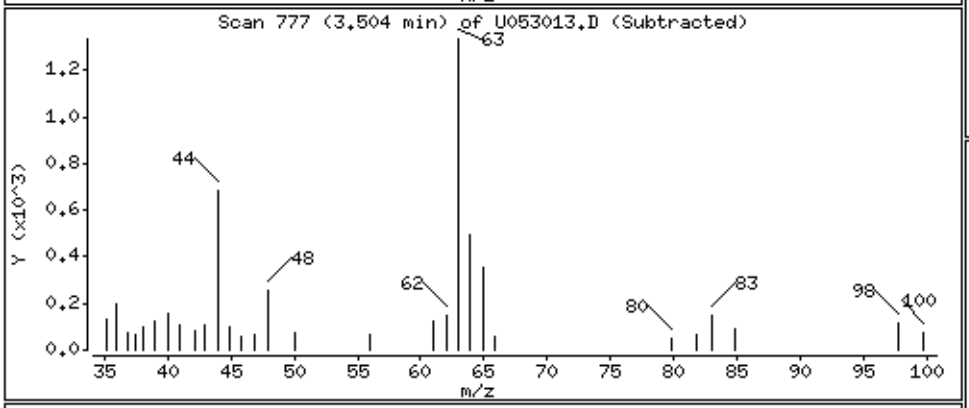
Purge Volume: 5.0 Operator: TS

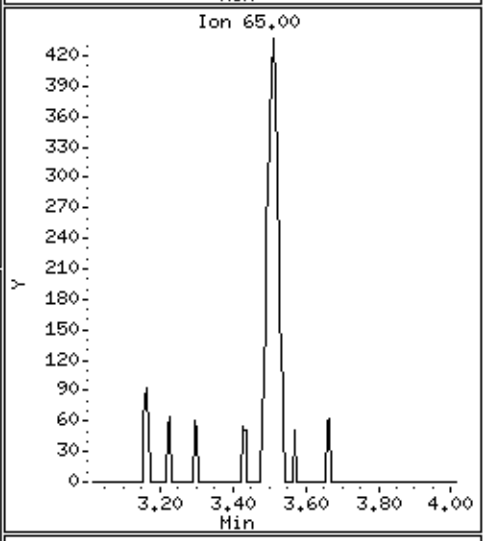
Column phase: DB624 Column diameter: 0.18

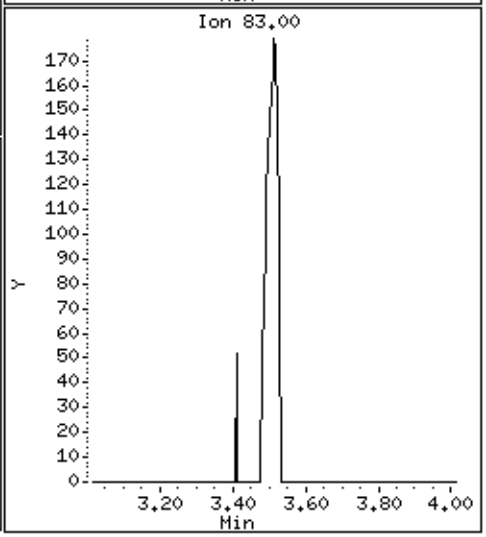
22 1,1-Dichloroethane Concentration: 0.87 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053013.D Page 4

Date : 30-MAY-2024 18:56

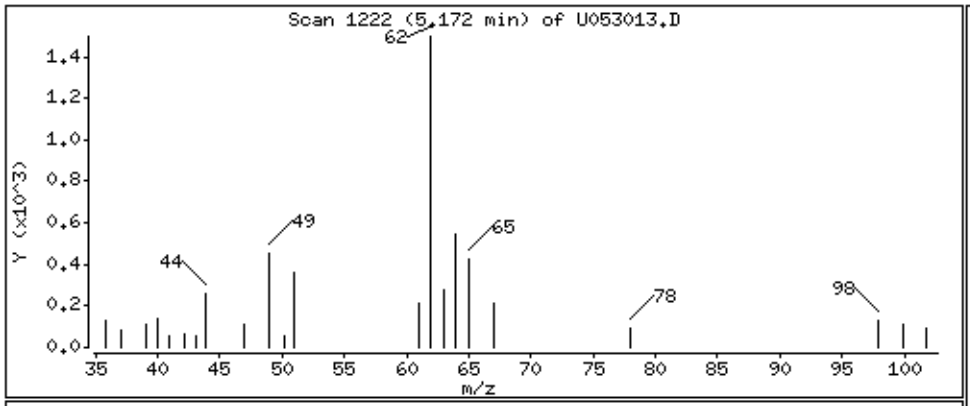
Client ID: Instrument: VOA9.i

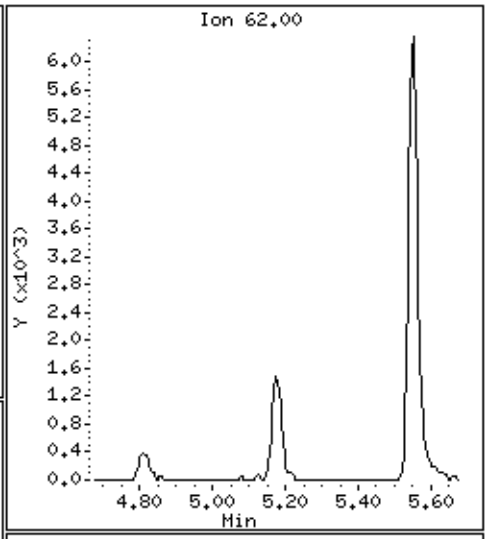
Sample Info: HS24051535-01

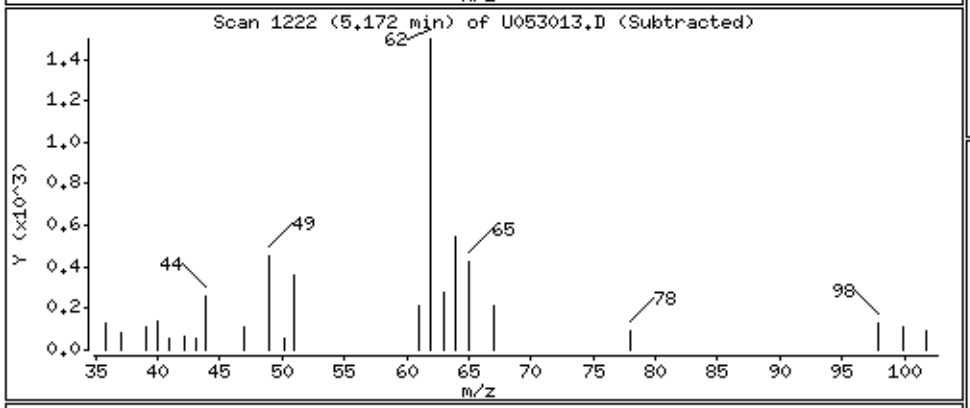
Purge Volume: 5.0 Operator: TS

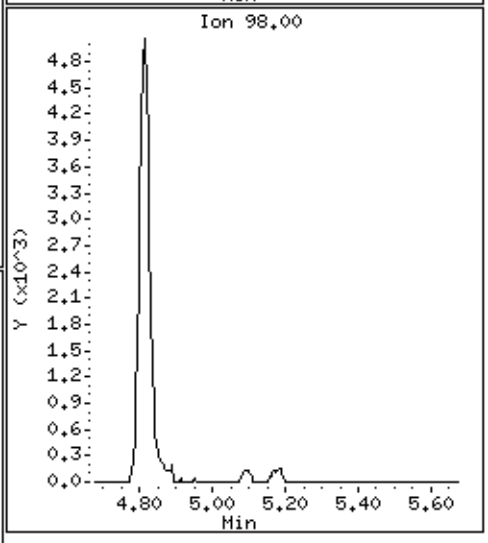
Column phase: DB624 Column diameter: 0.18

33 1,2-Dichloroethane Concentration: 1.69 ug/l









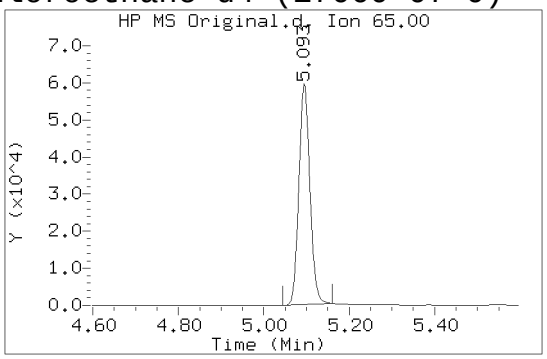
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053013.D
Inj Date : 30-MAY-2024 18:56
InstruID : VOA9.i
LabSampID : HS24051535-01

1,2-Dichloroethane-d4 (17060-07-0)

Reason Code:

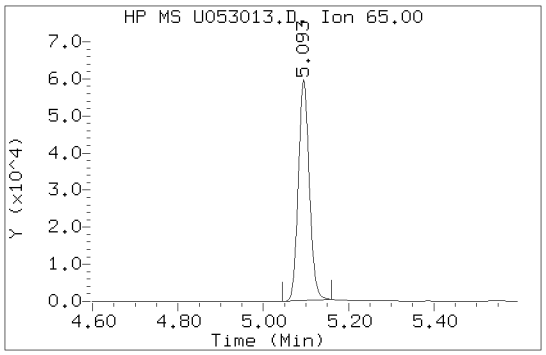
BEFORE

MASS
65
AREA
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HEIGHT
59544
24-Jun-2024
09:18
RUCHA
PATEL



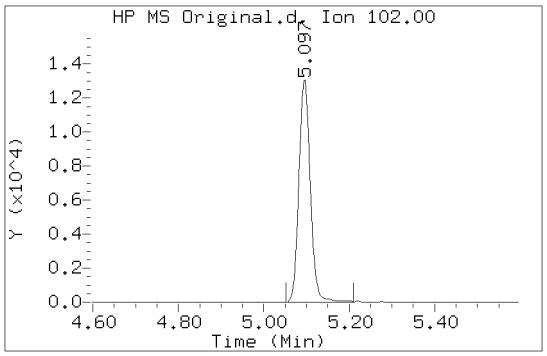
AFTER

MASS
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24-Jun-2024
09:18
RUCHA
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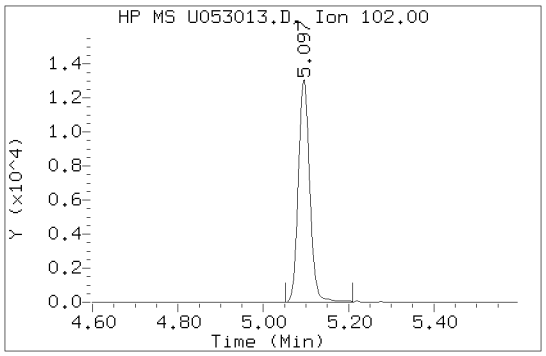
BEFORE

MASS
102
AREA
24931
HEIGHT
13062
24-Jun-2024
09:18
RUCHA
PATEL



AFTER

MASS
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AREA
24931
HEIGHT
13062
24-Jun-2024
09:18
RUCHA
PATEL

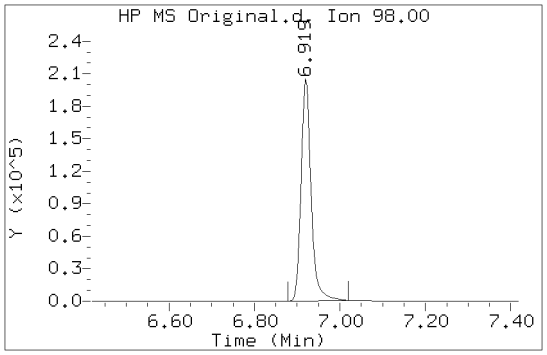


Toluene-d8 (2037-26-5)

Reason Code:

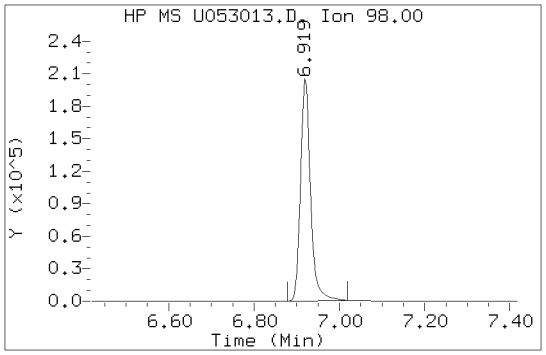
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AREA
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HEIGHT
205073
24-Jun-2024
09:18
RUCHA
PATEL



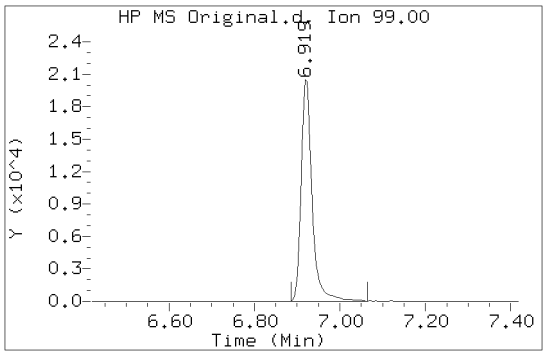
AFTER

MASS
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AREA
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HEIGHT
205073
24-Jun-2024
09:18
RUCHA
PATEL



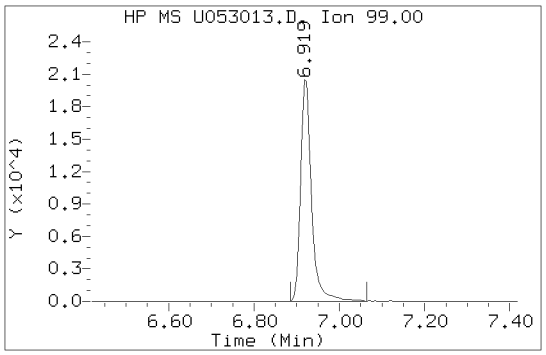
BEFORE

MASS
99
AREA
37479
HEIGHT
20496
24-Jun-2024
09:18
RUCHA
PATEL



AFTER

MASS
99
AREA
37479
HEIGHT
20496
24-Jun-2024
09:18
RUCHA
PATEL



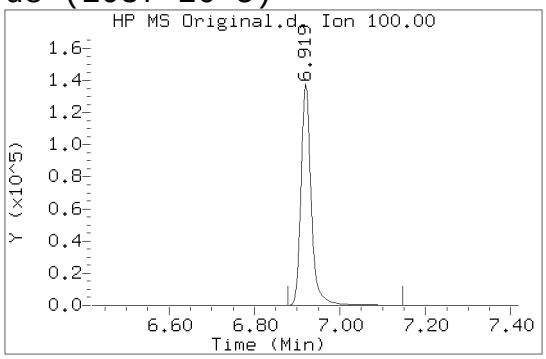
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053013.D
Inj Date : 30-MAY-2024 18:56
InstruID : VOA9.i
LabSampID : HS24051535-01

Toluene-d8 (2037-26-5)

Reason Code:

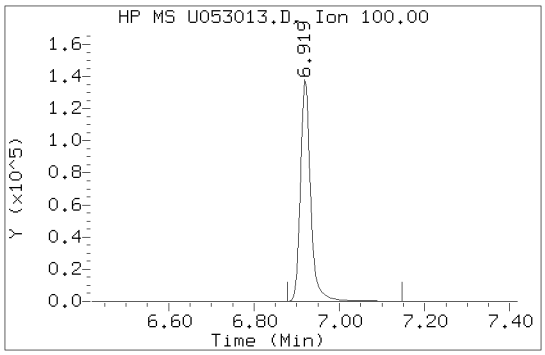
BEFORE

MASS
100
AREA
234252
HEIGHT
137984
24-Jun-2024
09:18
RUCHA
PATEL



AFTER

MASS
100
AREA
234252
HEIGHT
137984
24-Jun-2024
09:18
RUCHA
PATEL



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053014.D Page 1
Report Date: 24-Jun-2024 09:19

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053014.D
Lab Smp Id: HS24051535-02
Inj Date : 30-MAY-2024 19:17
Operator : TS   Inst ID: VOA9.i
Smp Info : HS24051535-02
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240530.b\8260C.m
Meth Date : 24-Jun-2024 09:18 r.patel   Quant Type: ISTD
Cal Date : 29-MAY-2024 11:00   Cal File: U052903.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

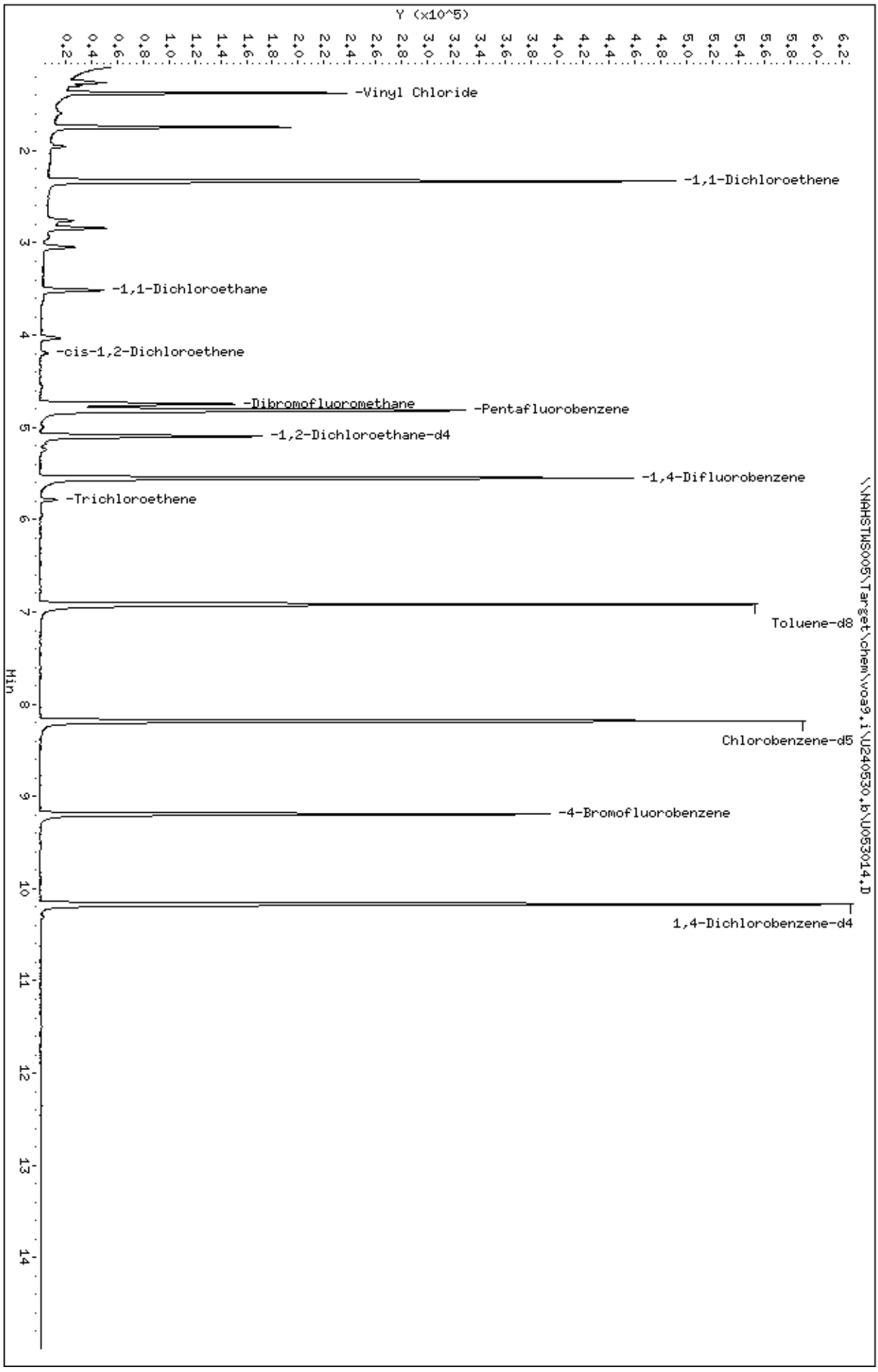
Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
*	1 Pentafluorobenzene	168	4.815	4.815	(1.000)	240443	50.0000	
	5 Vinyl Chloride	62	1.378	1.385	(0.286)	84509	46.5434	46.54
	11 1,1-Dichloroethene	96	2.330	2.337	(0.484)	157630	99.4483	99.44
	22 1,1-Dichloroethane	63	3.511	3.515	(0.729)	47796	13.8817	13.88
	27 cis-1,2-Dichloroethene	96	4.197	4.197	(0.872)	2521	1.13888	1.13
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	87187	56.9121	56.91
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	108692	58.7436	58.74(M)
*	36 1,4-Difluorobenzene	114	5.550	5.554	(1.000)	355484	50.0000	
	38 Trichloroethene	130	5.786	5.786	(1.043)	4189	2.03268	2.03(a)
*	47 Chlorobenzene-d5	117	8.181	8.182	(1.000)	322722	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.846)	342803	55.6818	55.68(M)
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	122905	54.7710	54.77
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	164340	50.0000	
M	94 1,2-Dichloroethylene (total)	96				2521	1.25865	1.25(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053014.D
Date : 30-MAY-2024 19:17
Client ID:
Sample Info: HS24051535-02
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053014.D

Page 2

Date : 30-MAY-2024 19:17

Client ID:

Instrument: VOA9.i

Sample Info: HS24051535-02

Purge Volume: 5.0

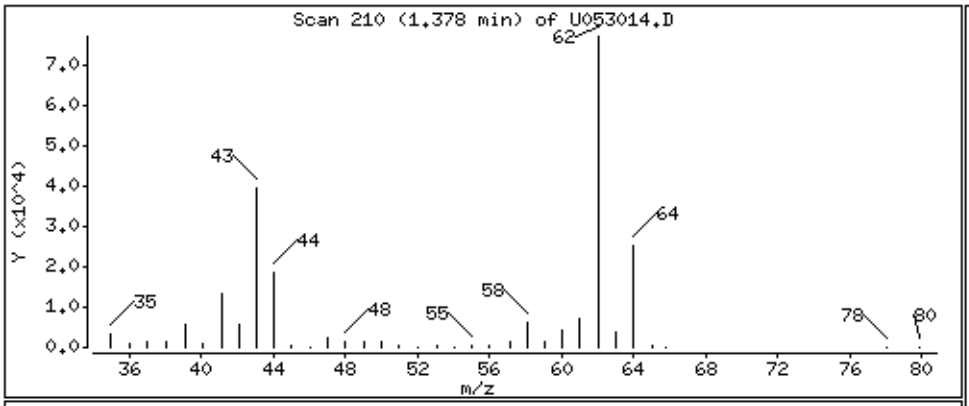
Operator: TS

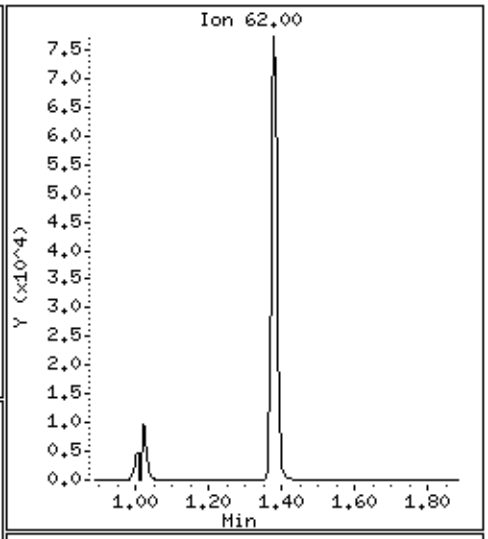
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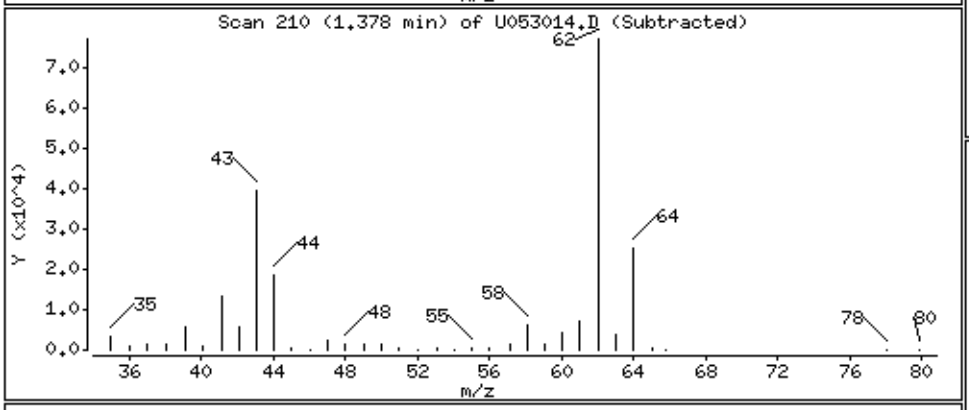
Column diameter: 0.18

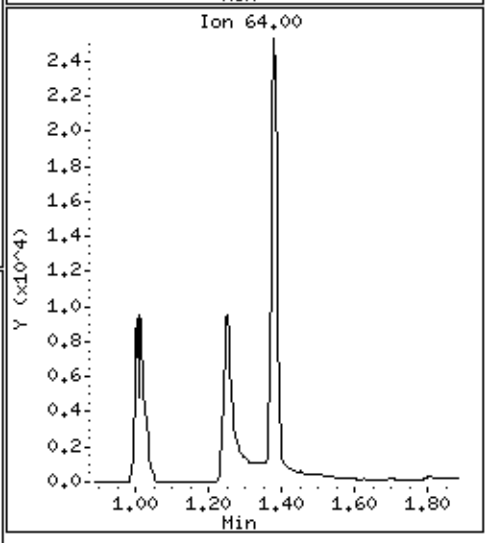
5 Vinyl Chloride

Concentration: 46.54 ug/l









Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053014.D Page 3

Date : 30-MAY-2024 19:17

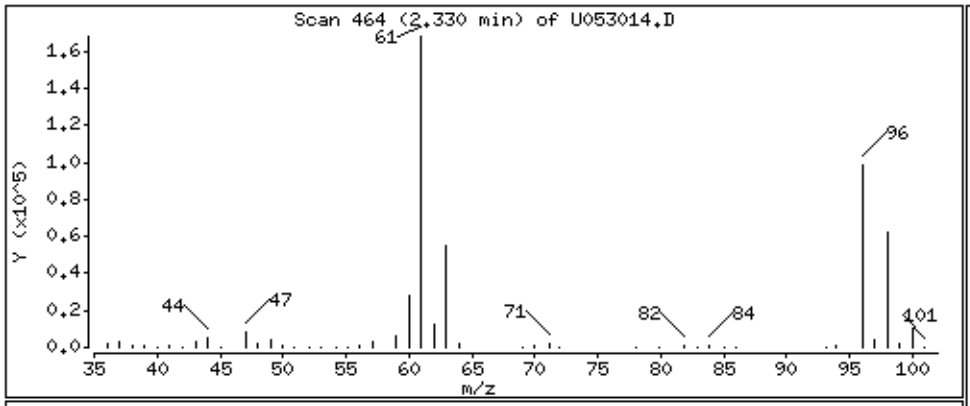
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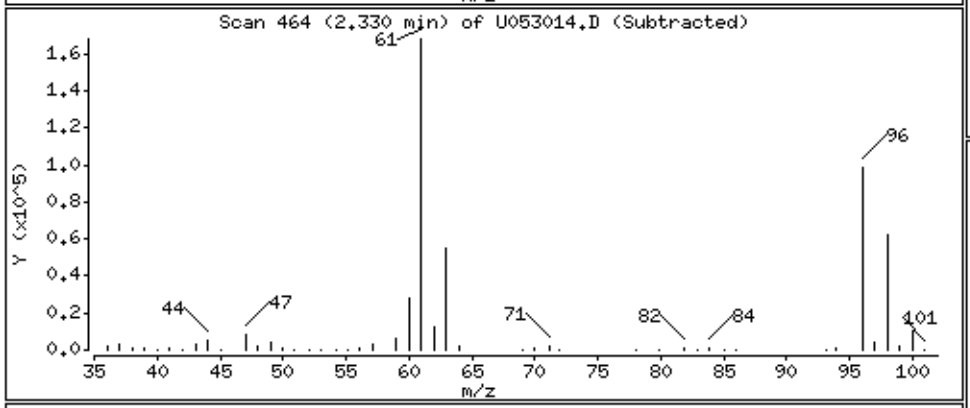
Sample Info: HS24051535-02

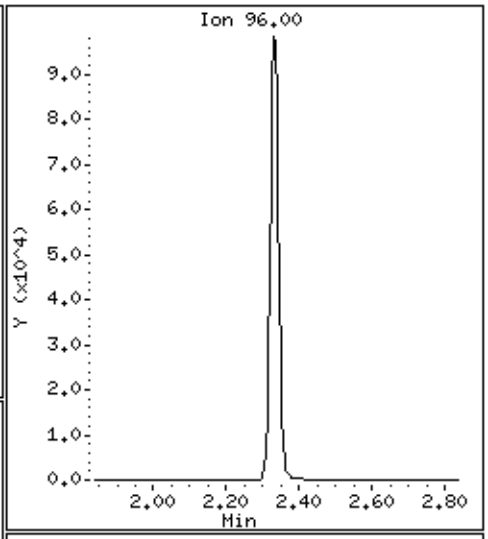
Purge Volume: 5.0 Operator: TS

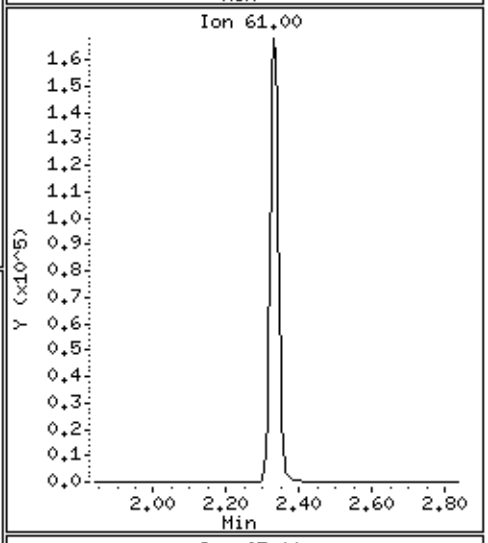
Column phase: DB624 Column diameter: 0.18

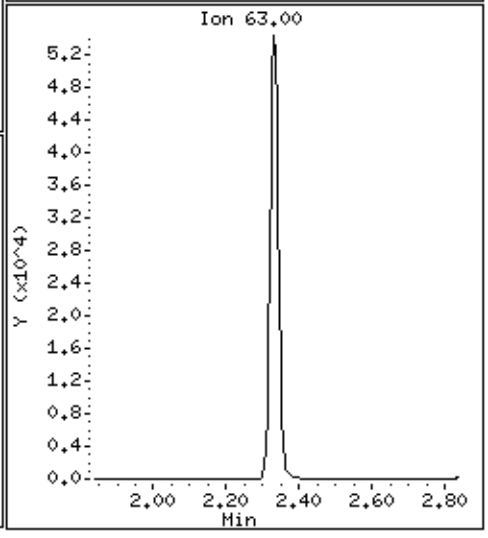
11 1,1-Dichloroethene Concentration: 99.44 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053014.D Page 4

Date : 30-MAY-2024 19:17

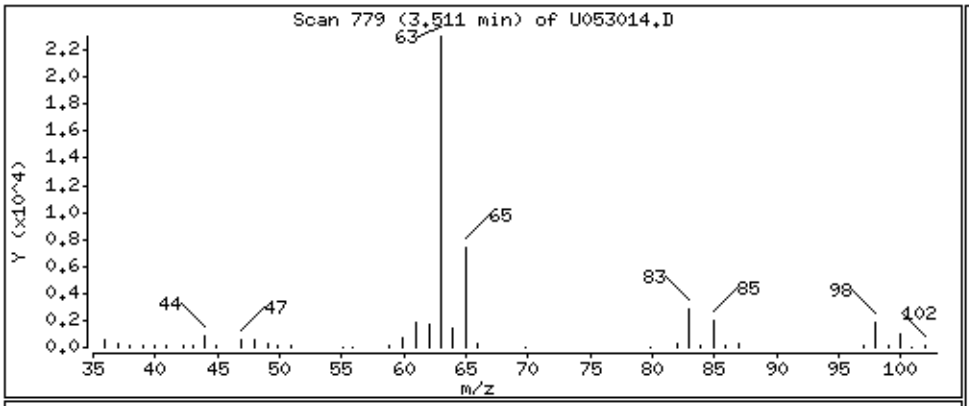
Client ID: Instrument: VOA9.i

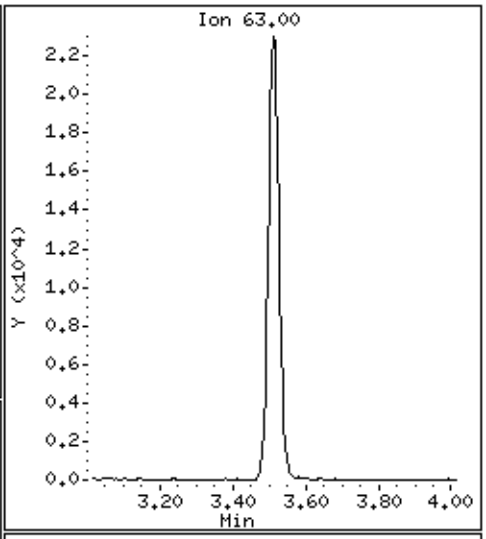
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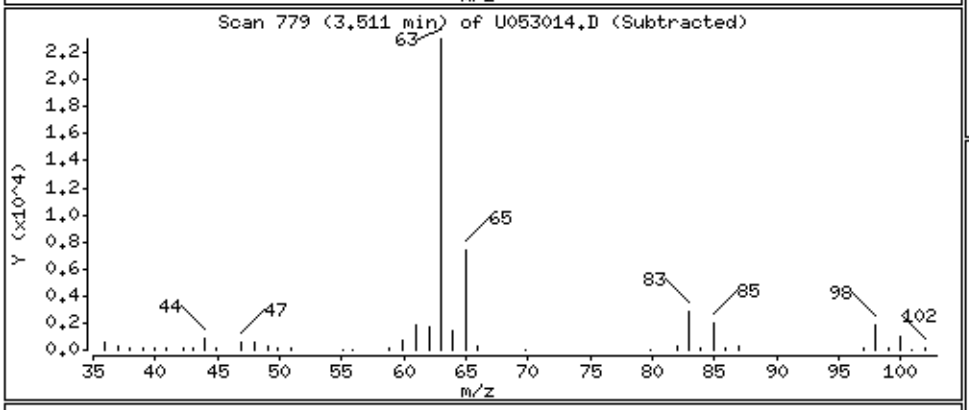
Purge Volume: 5.0 Operator: TS

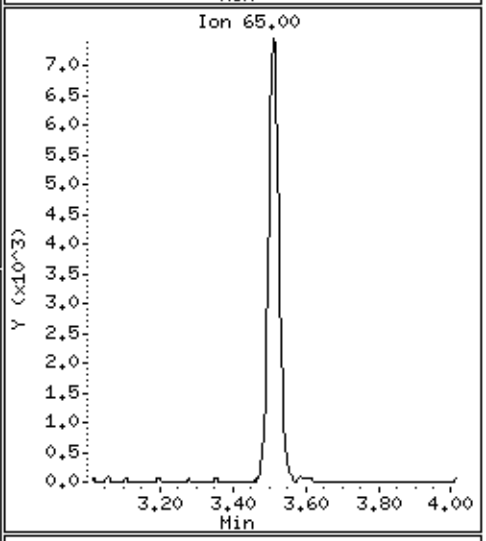
Column phase: DB624 Column diameter: 0.18

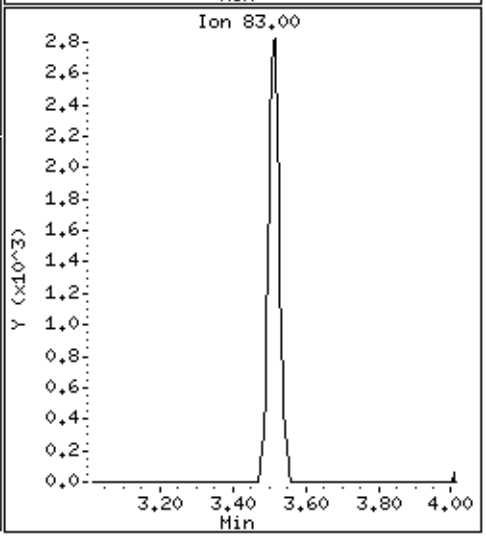
22 1,1-Dichloroethane Concentration: 13.88 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053014.D

Date : 30-MAY-2024 19:17

Client ID:

Instrument: VOA9.i

Sample Info: HS24051535-02

Purge Volume: 5.0

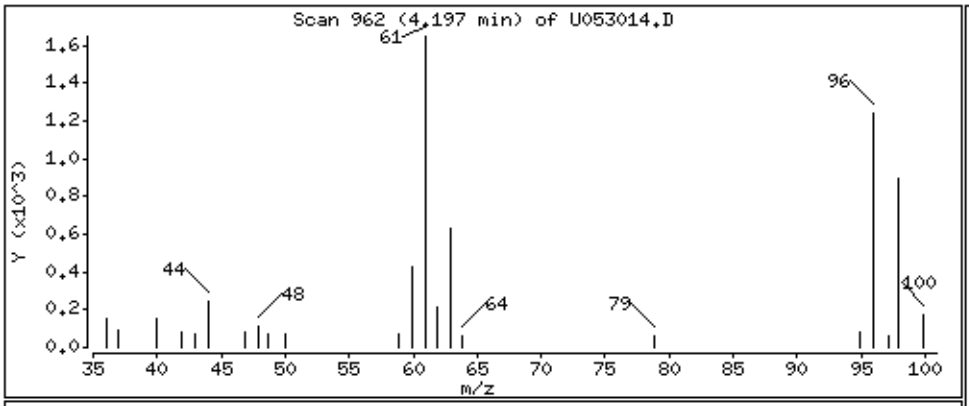
Operator: TS

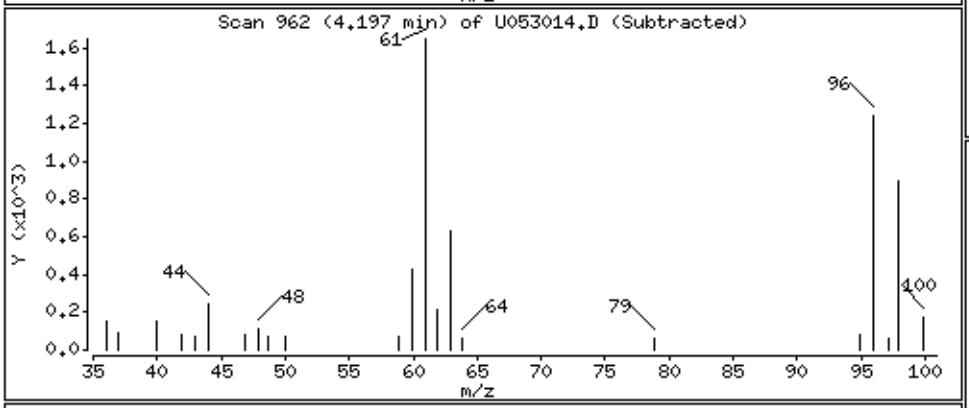
Column phase: DB624

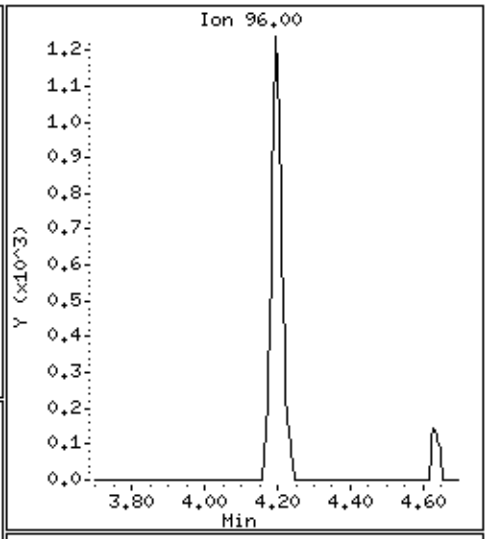
Column diameter: 0.18

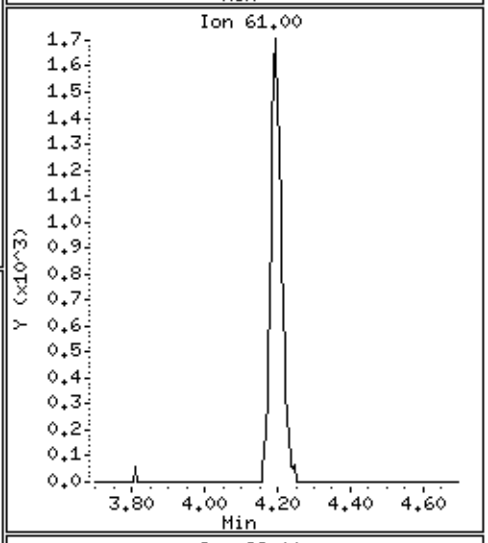
27 cis-1,2-Dichloroethene

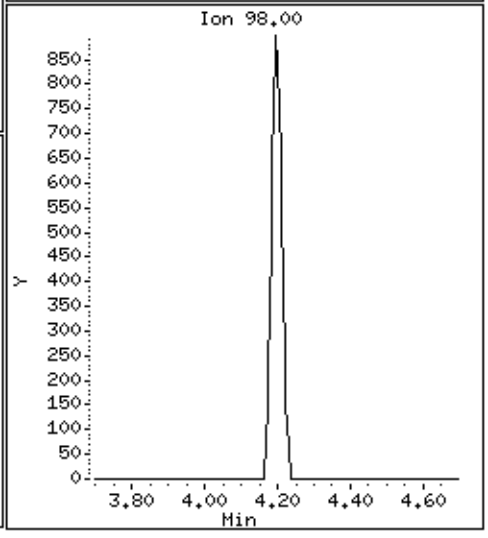
Concentration: 1.13 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053014.D

Date : 30-MAY-2024 19:17

Client ID:

Instrument: VOA9.i

Sample Info: HS24051535-02

Purge Volume: 5.0

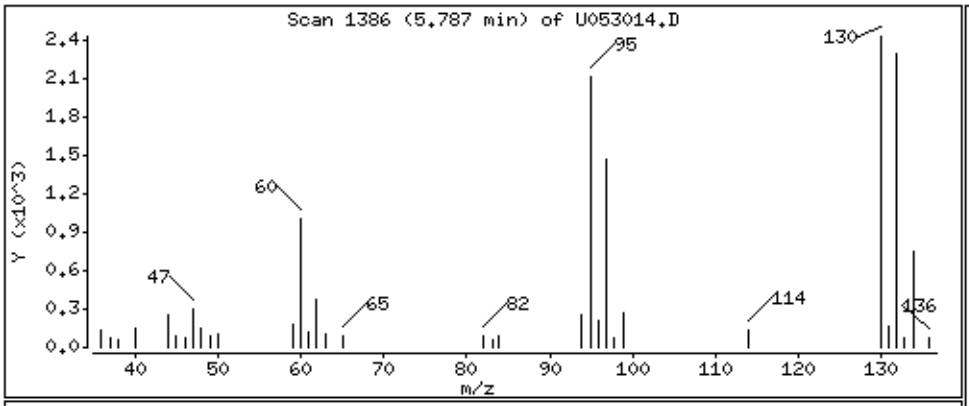
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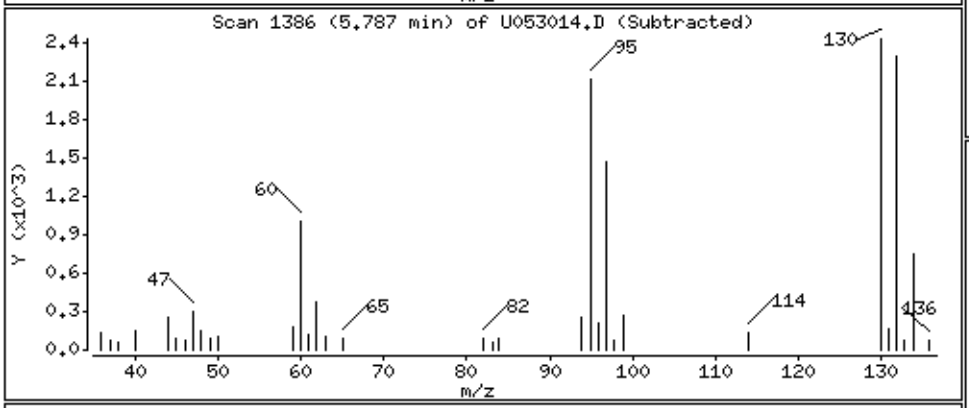
Column phase: DB624

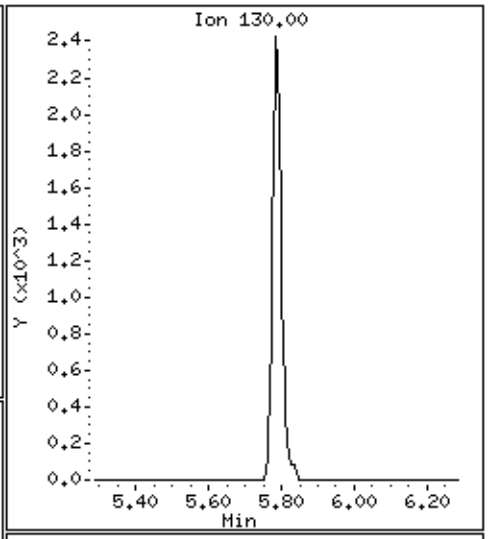
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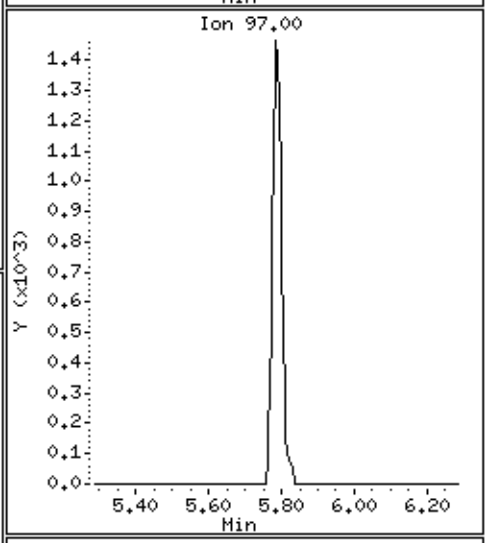
38 Trichloroethene

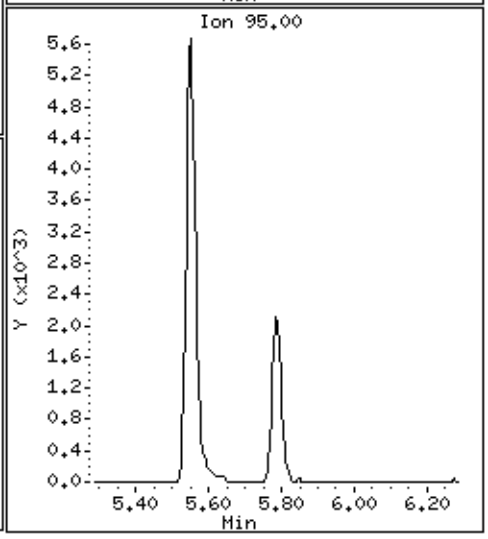
Concentration: 2.03 ug/l











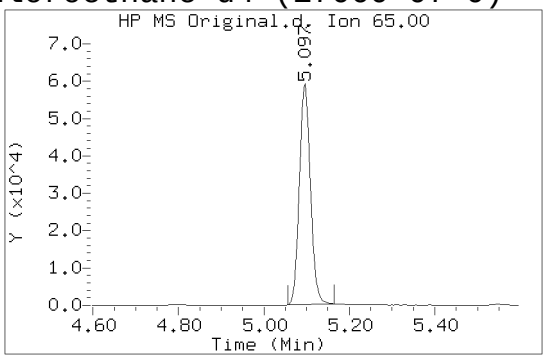
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053014.D
Inj Date : 30-MAY-2024 19:17
InstruID : VOA9.i
LabSampID : HS24051535-02

1,2-Dichloroethane-d4 (17060-07-0)

Reason Code:

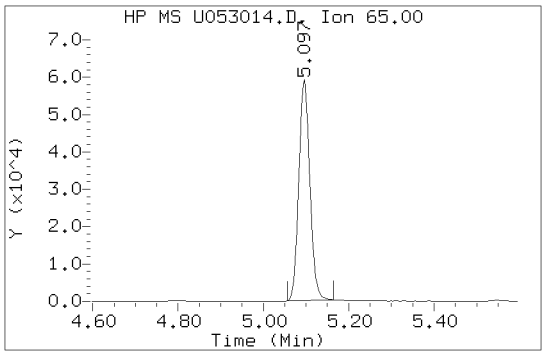
BEFORE

MASS
65
AREA
108692
HEIGHT
59090
24-Jun-2024
09:18
RUCHA
PATEL



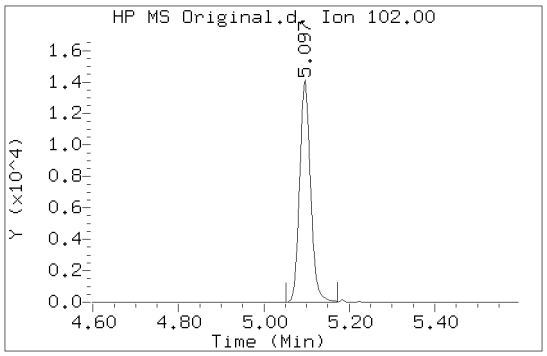
AFTER

MASS
65
AREA
108692
HEIGHT
59090
24-Jun-2024
09:18
RUCHA
PATEL



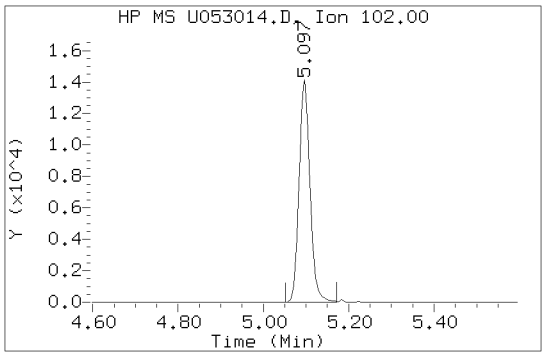
BEFORE

MASS
102
AREA
25711
HEIGHT
14137
24-Jun-2024
09:18
RUCHA
PATEL



AFTER

MASS
102
AREA
25711
HEIGHT
14137
24-Jun-2024
09:18
RUCHA
PATEL

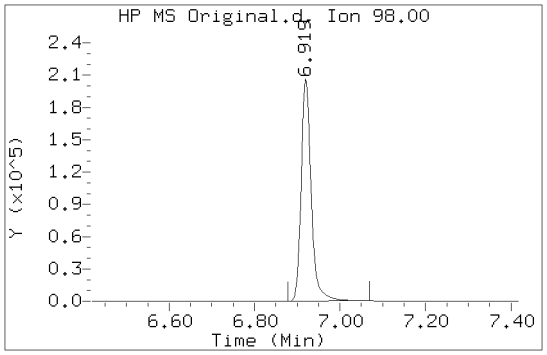


Toluene-d8 (2037-26-5)

Reason Code:

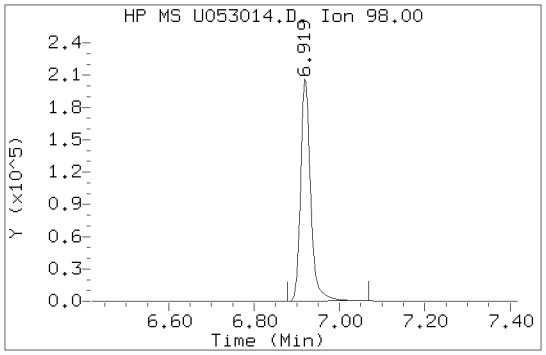
BEFORE

MASS
98
AREA
342803
HEIGHT
206512
24-Jun-2024
09:18
RUCHA
PATEL



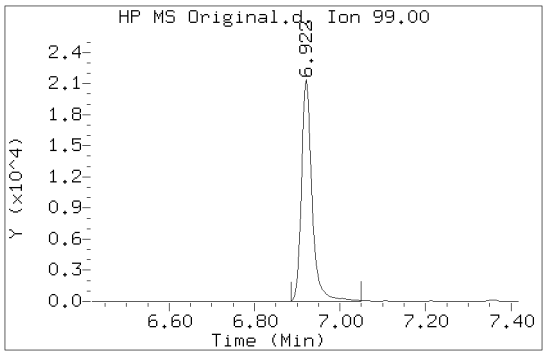
AFTER

MASS
98
AREA
342803
HEIGHT
206512
24-Jun-2024
09:18
RUCHA
PATEL



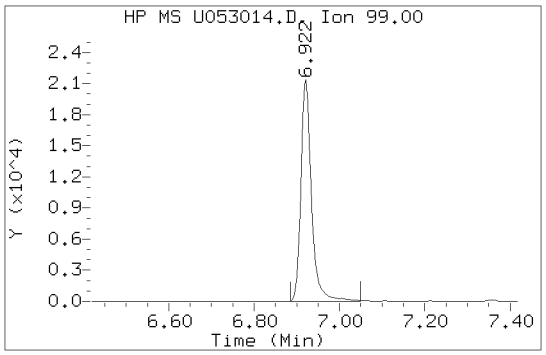
BEFORE

MASS
99
AREA
37458
HEIGHT
21376
24-Jun-2024
09:18
RUCHA
PATEL



AFTER

MASS
99
AREA
37458
HEIGHT
21376
24-Jun-2024
09:18
RUCHA
PATEL



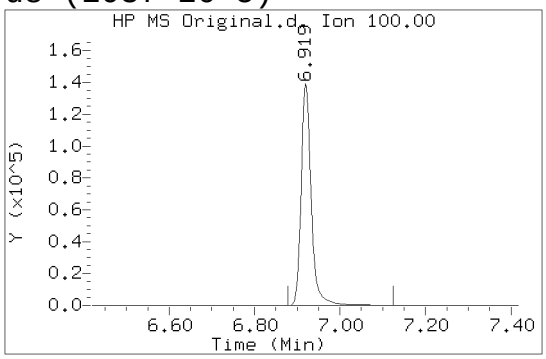
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053014.D
Inj Date : 30-MAY-2024 19:17
InstruID : VOA9.i
LabSampID : HS24051535-02

Toluene-d8 (2037-26-5)

Reason Code:

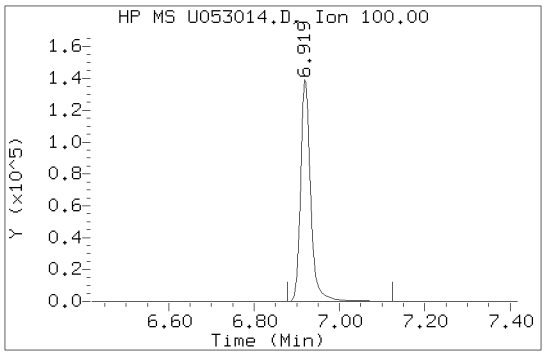
BEFORE

MASS
100
AREA
231886
HEIGHT
139200
24-Jun-2024
09:18
RUCHA
PATEL



AFTER

MASS
100
AREA
231886
HEIGHT
139200
24-Jun-2024
09:18
RUCHA
PATEL



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053015.D Page 1
Report Date: 24-Jun-2024 09:19

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053015.D
Lab Smp Id: HS24051535-04
Inj Date : 30-MAY-2024 19:39
Operator : TS   Inst ID: VOA9.i
Smp Info : HS24051535-04
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240530.b\8260C.m
Meth Date : 24-Jun-2024 09:18 r.patel   Quant Type: ISTD
Cal Date : 29-MAY-2024 11:00   Cal File: U052903.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

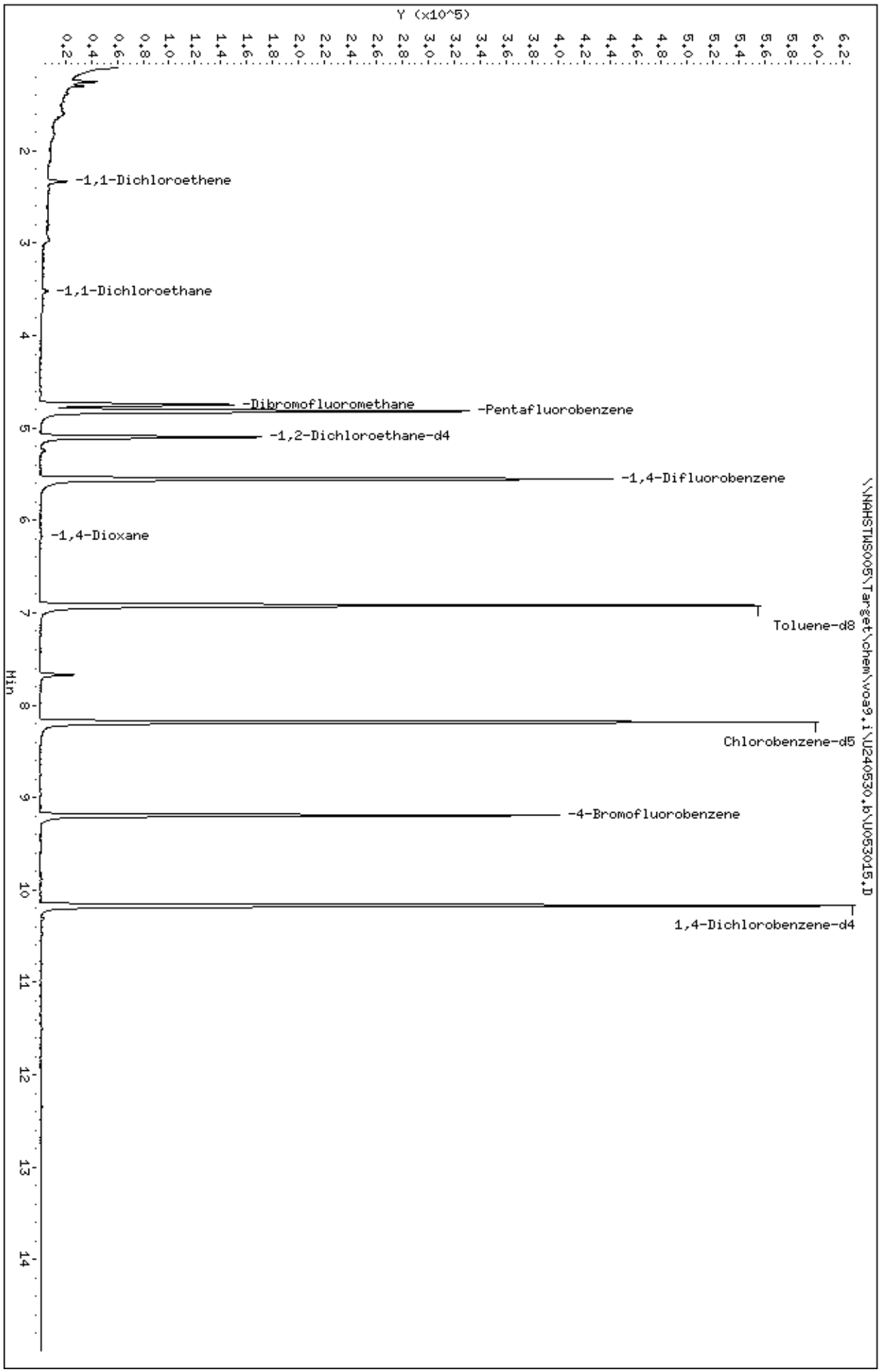
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.815	4.815	(1.000)	240427	50.0000	
11 1,1-Dichloroethene	96	2.334	2.337	(0.485)	4473	2.82219	2.82
22 1,1-Dichloroethane	63	3.518	3.515	(0.731)	4075	1.18360	1.18
$ 30 Dibromofluoromethane	113	4.748	4.748	(0.986)	87225	56.9400	56.94
$ 35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	108988	58.9062	58.90(M)
* 36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	356484	50.0000	
* 47 Chlorobenzene-d5	117	8.182	8.182	(1.000)	327506	50.0000	
$ 48 Toluene-d8	98	6.922	6.918	(0.846)	346734	55.4983	55.49
$ 69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	122392	53.7438	53.74
* 70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	165677	50.0000	
135 1,4-Dioxane	88	6.172	6.165	(1.282)	758	15.0250	15.02(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa9,i\U240530,b\U053015,D
Date : 30-MAY-2024 19:39
Client ID:
Sample Info: HS24051535-04
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: TS
Column diameter: 0.18

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053015.D Page 2

Date : 30-MAY-2024 19:39

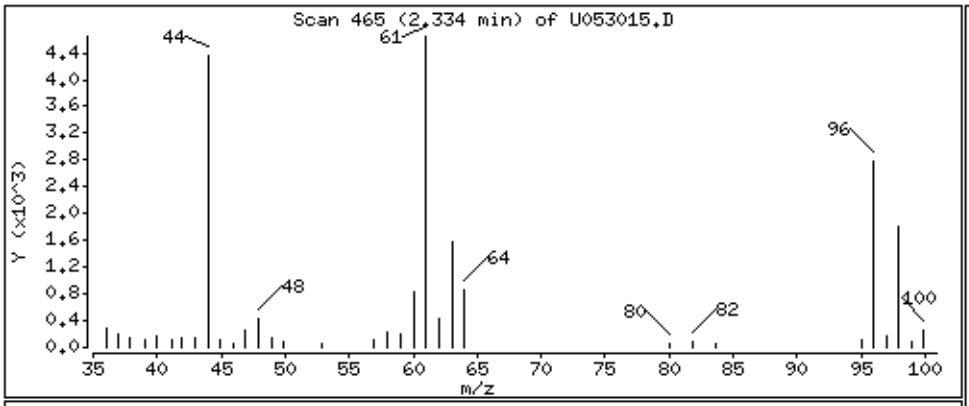
Client ID: Instrument: VOA9.i

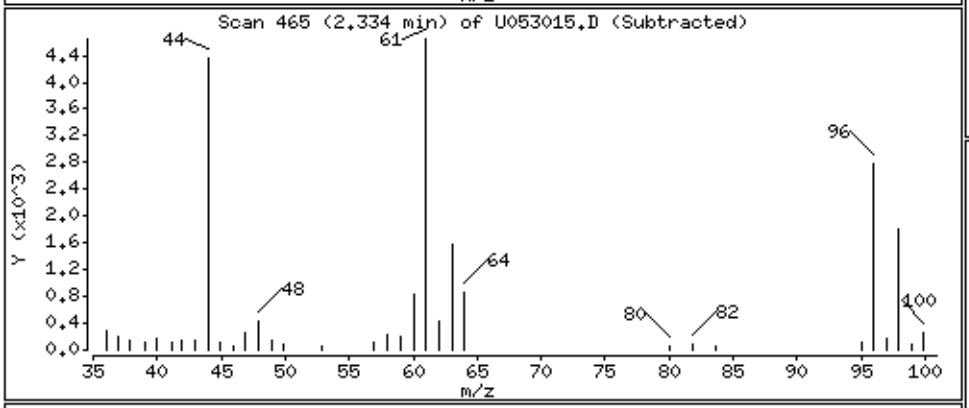
Sample Info: HS24051535-04

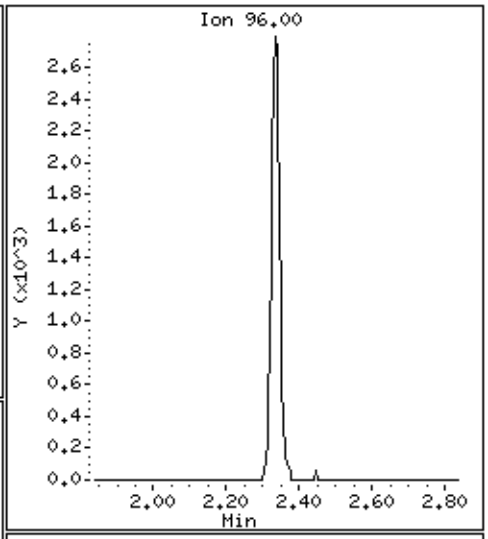
Purge Volume: 5.0 Operator: TS

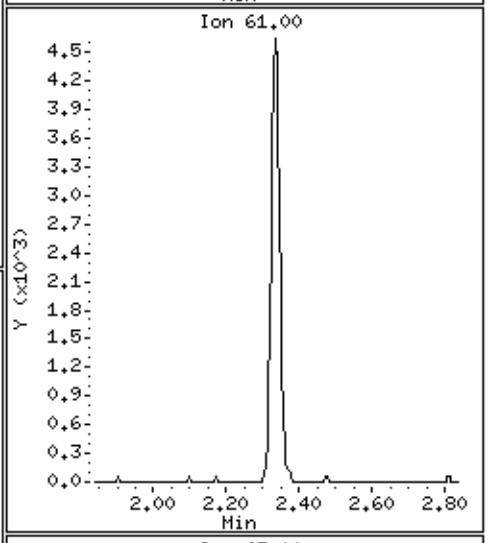
Column phase: DB624 Column diameter: 0.18

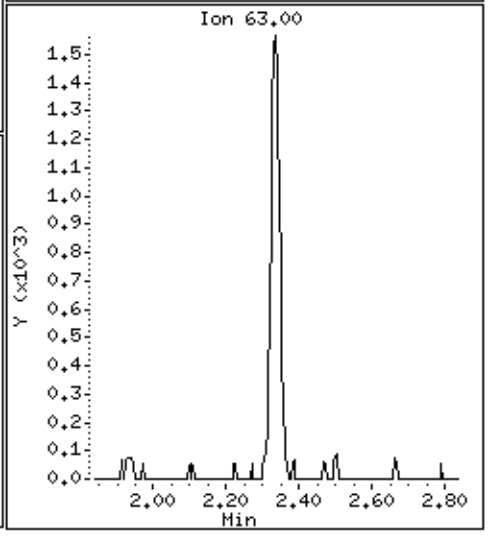
11 1,1-Dichloroethene Concentration: 2.82 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053015.D

Date : 30-MAY-2024 19:39

Client ID:

Instrument: VOA9.i

Sample Info: HS24051535-04

Purge Volume: 5.0

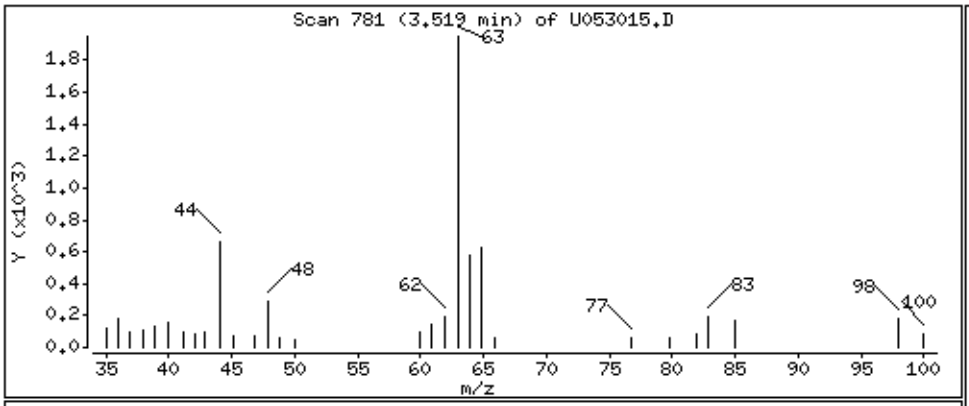
Operator: TS

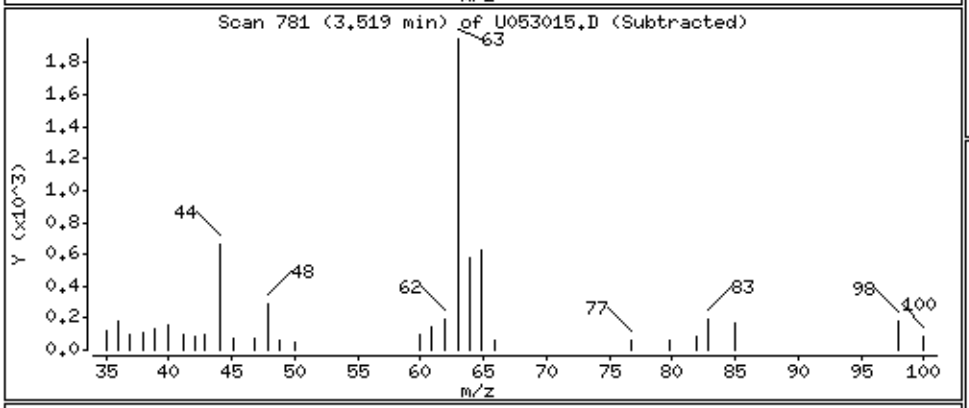
Column phase: DB624

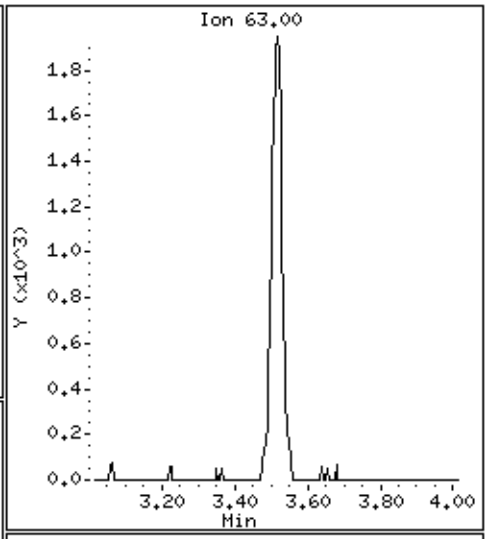
Column diameter: 0.18

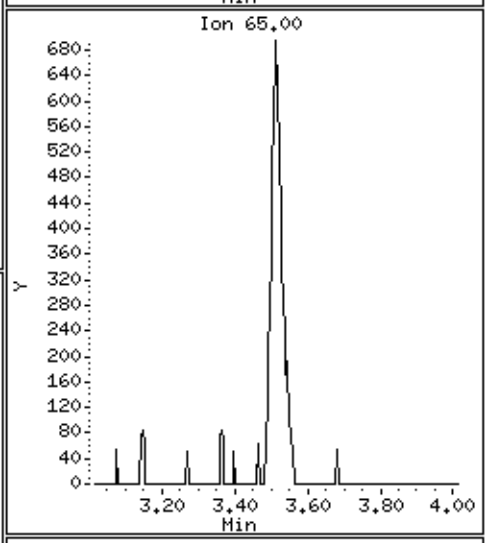
22 1,1-Dichloroethane

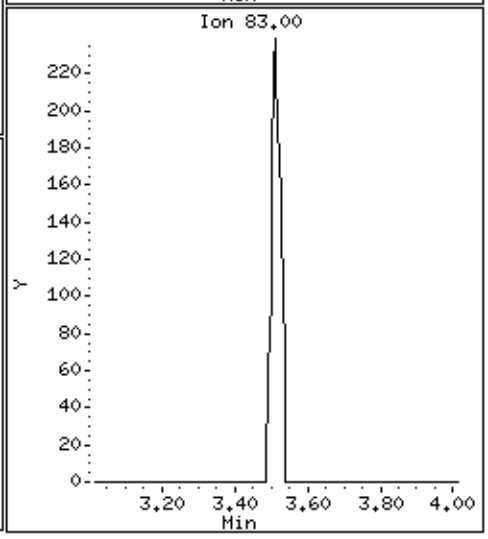
Concentration: 1.18 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053015.D

Date : 30-MAY-2024 19:39

Client ID:

Instrument: VOA9.i

Sample Info: HS24051535-04

Purge Volume: 5.0

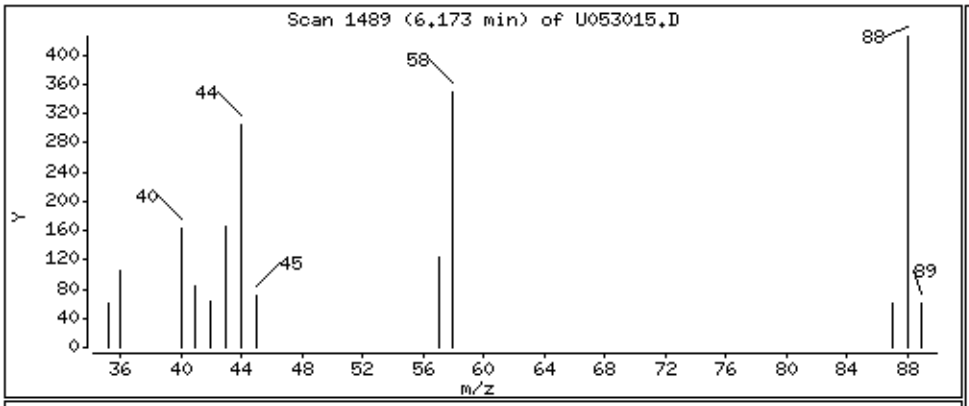
Operator: TS

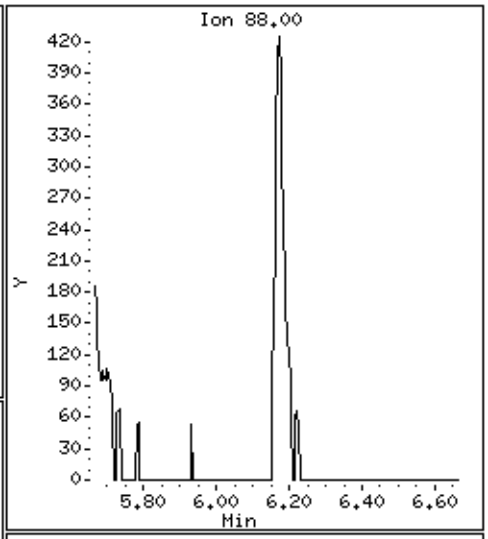
Column phase: DB624

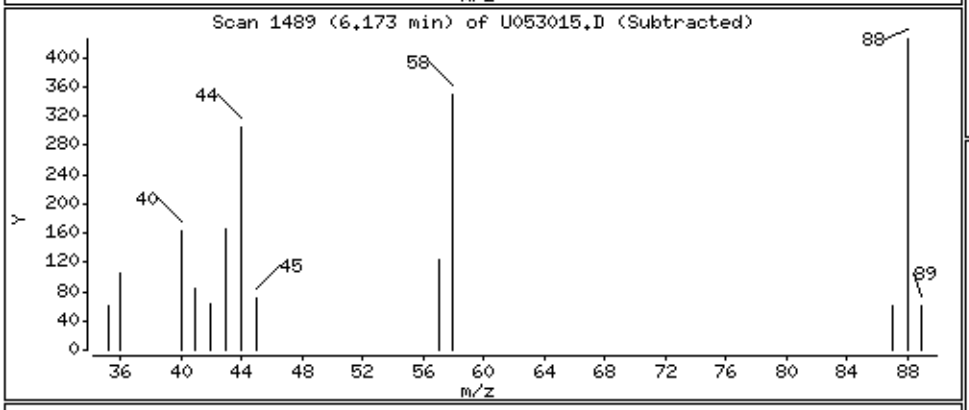
Column diameter: 0.18

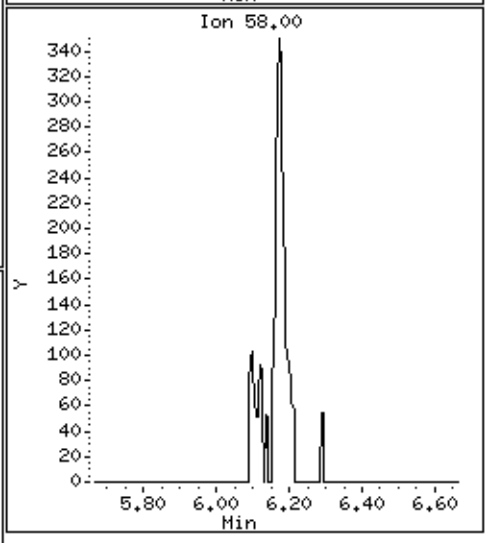
135 1,4-Dioxane

Concentration: 15.02 ug/l









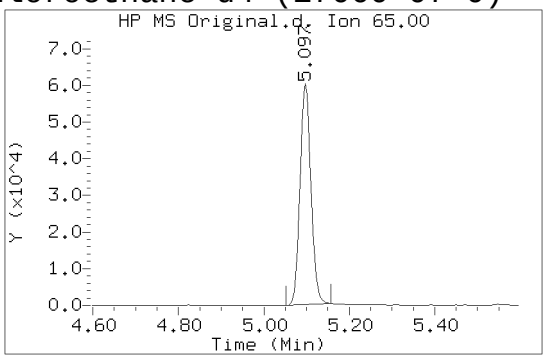
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053015.D
Inj Date : 30-MAY-2024 19:39
InstruID : VOA9.i
LabSampID : HS24051535-04

1,2-Dichloroethane-d4 (17060-07-0)

Reason Code:

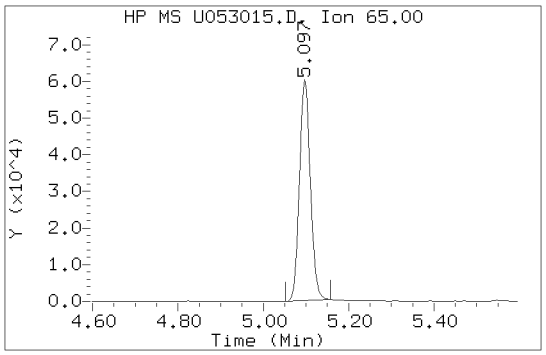
BEFORE

MASS
65
AREA
108988
HEIGHT
60252
24-Jun-2024
09:19
RUCHA
PATEL



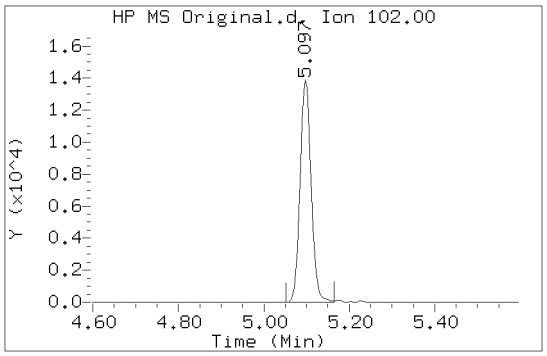
AFTER

MASS
65
AREA
108988
HEIGHT
60252
24-Jun-2024
09:19
RUCHA
PATEL



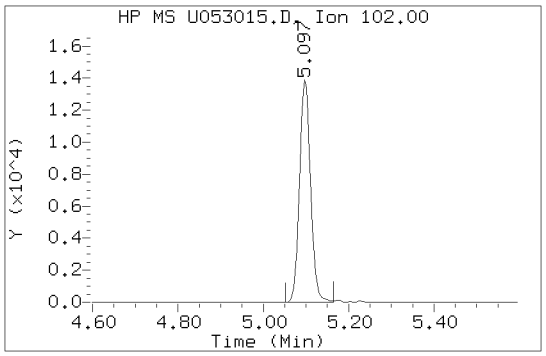
BEFORE

MASS
102
AREA
25481
HEIGHT
13886
24-Jun-2024
09:19
RUCHA
PATEL



AFTER

MASS
102
AREA
25481
HEIGHT
13886
24-Jun-2024
09:19
RUCHA
PATEL



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053016.D Page 1
Report Date: 24-Jun-2024 09:19

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053016.D
Lab Smp Id: HS24051535-05
Inj Date : 30-MAY-2024 20:00
Operator : TS   Inst ID: VOA9.i
Smp Info : HS24051535-05
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240530.b\8260C.m
Meth Date : 24-Jun-2024 09:18 r.patel   Quant Type: ISTD
Cal Date : 29-MAY-2024 11:00   Cal File: U052903.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

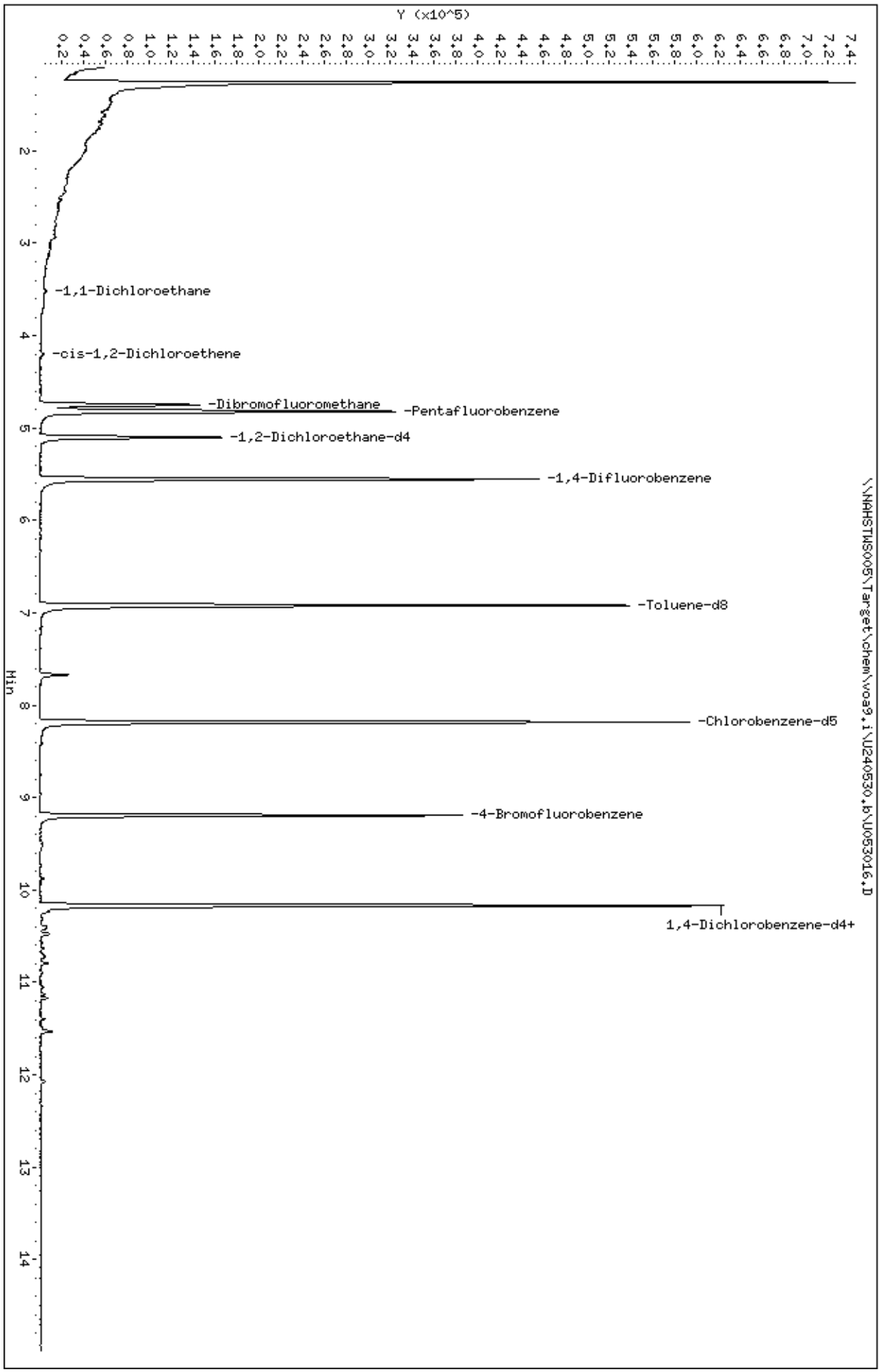
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

			QUANT SIG					CONCENTRATIONS ON-COLUMN	FINAL
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
*	1	Pentafluorobenzene	168	4.819	4.815	(1.000)	237184	50.0000	
	22	1,1-Dichloroethane	63	3.518	3.515	(0.730)	2342	0.68955	0.68
	27	cis-1,2-Dichloroethene	96	4.200	4.197	(0.872)	1513	0.69290	0.69
$	30	Dibromofluoromethane	113	4.751	4.748	(0.986)	86020	56.9216	56.92
$	35	1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	107628	58.9661	58.96(M)
*	36	1,4-Difluorobenzene	114	5.554	5.554	(1.000)	354253	50.0000	
*	47	Chlorobenzene-d5	117	8.182	8.182	(1.000)	320808	50.0000	
$	48	Toluene-d8	98	6.922	6.918	(0.846)	339298	55.4422	55.44
$	69	4-Bromofluorobenzene	95	9.190	9.190	(1.123)	119614	53.6204	53.62
*	70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	163434	50.0000	
	166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	2724	1.21145	1.21(a)
M	94	1,2-Dichloroethylene (total)	96				1513	0.76577	0.76(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.


Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053016.D
Date : 30-MAY-2024 20:00
Client ID:
Sample Info: HS24051535-05
Purge Volume: 5.0
Column phase: DB624
Instrument: VOA9.i
Operator: TS
Column diameter: 0.18
Y (x10^5)
Min
-1,1-Dichloroethane
-cis-1,2-Dichloroethene
-Dibromofluoromethane
-Pentafluorobenzene
-1,2-Dichloroethane-d4
-1,4-Difluorobenzene
-Toluene-d8
-Chlorobenzene-d5
-4-Bromofluorobenzene
1,4-Dichlorobenzene-d4+
\\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053016.D

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053016.D

Date : 30-MAY-2024 20:00

Client ID:

Instrument: VOA9.i

Sample Info: HS24051535-05

Purge Volume: 5.0

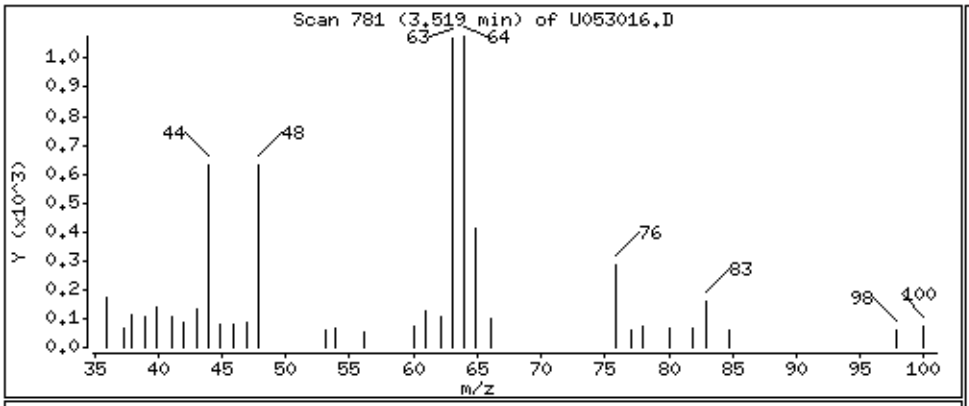
Operator: TS

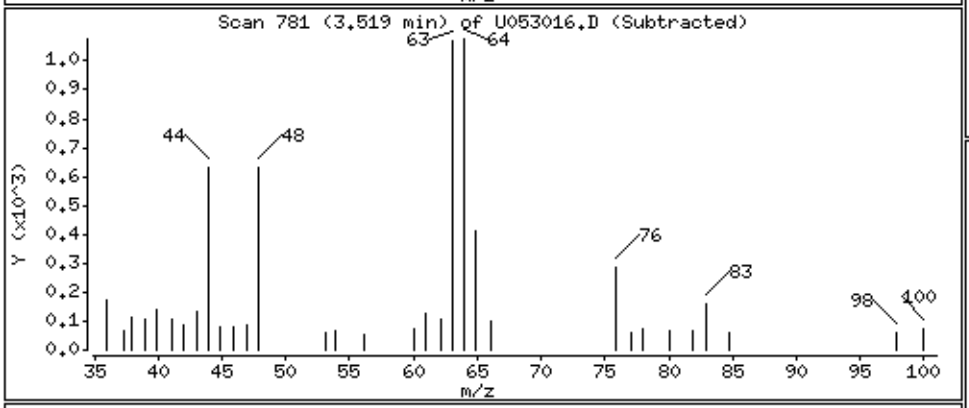
Column phase: DB624

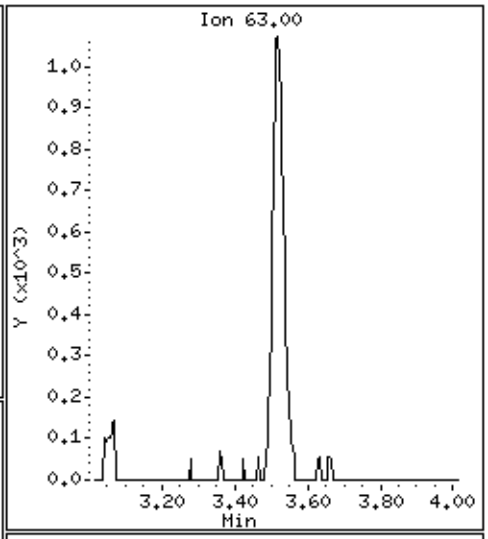
Column diameter: 0.18

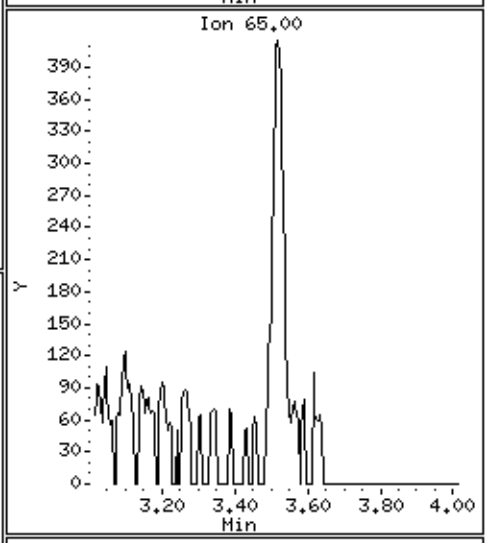
22 1,1-Dichloroethane

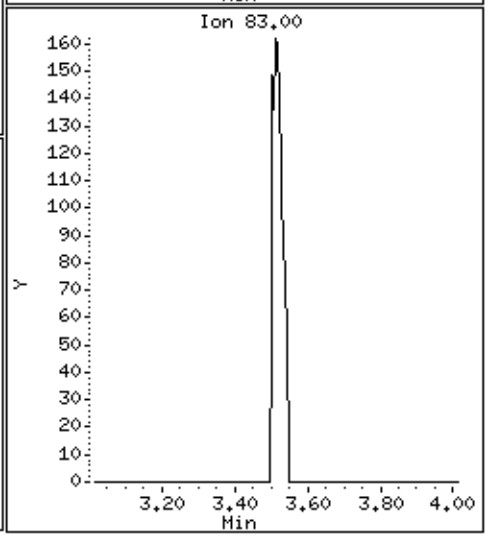
Concentration: 0.68 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053016.D

Date : 30-MAY-2024 20:00

Client ID:

Instrument: VOA9.i

Sample Info: HS24051535-05

Purge Volume: 5.0

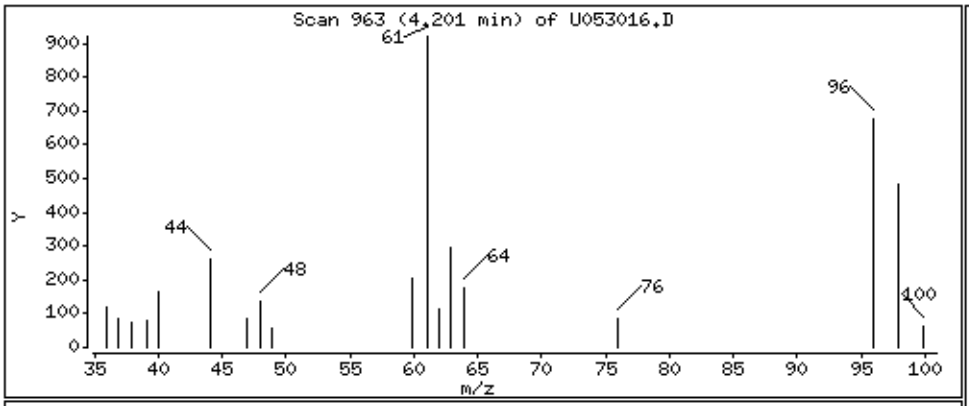
Operator: TS

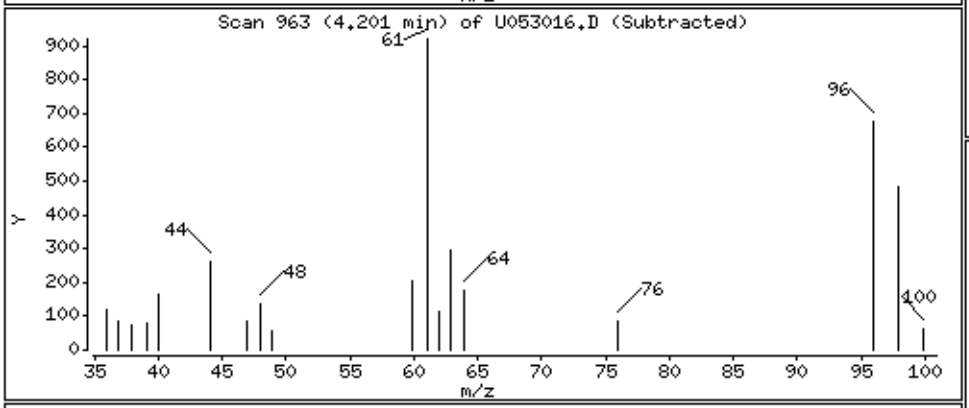
Column phase: DB624

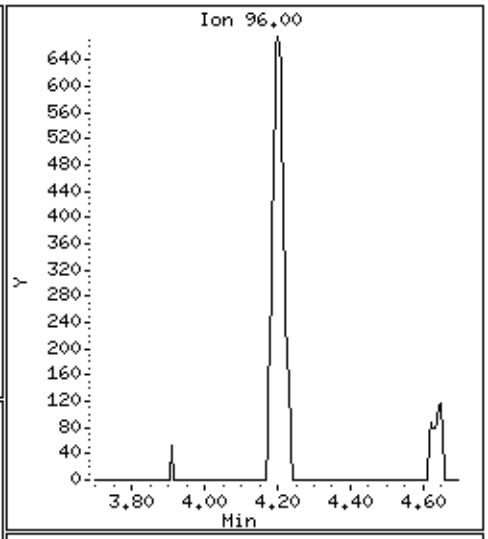
Column diameter: 0.18

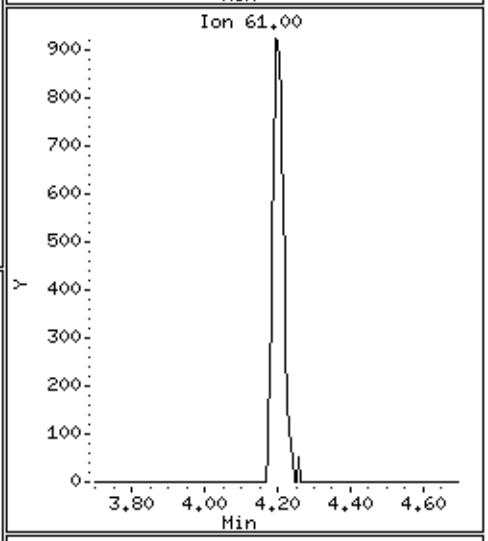
27 cis-1,2-Dichloroethene

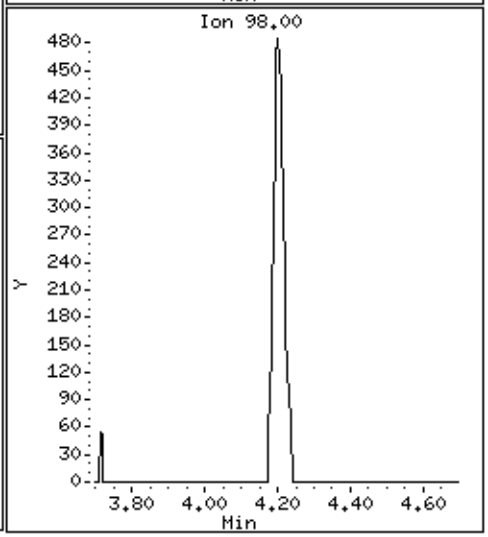
Concentration: 0.69 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053016.D

Date : 30-MAY-2024 20:00

Client ID:

Instrument: VOA9.i

Sample Info: HS24051535-05

Purge Volume: 5.0

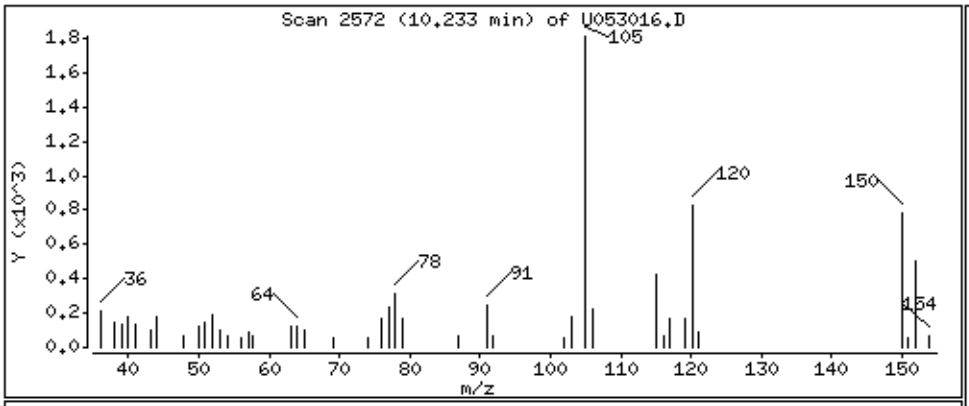
Operator: TS

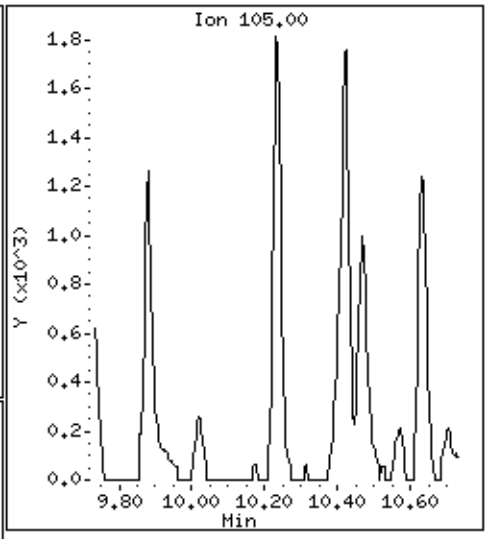
Column phase: DB624

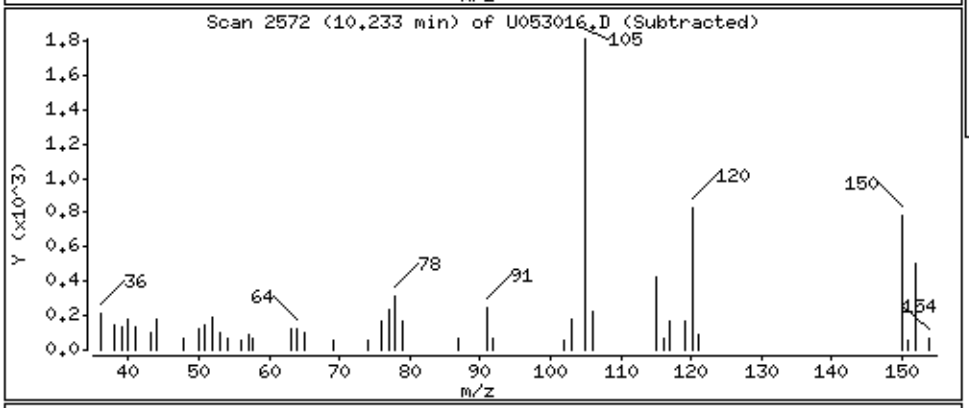
Column diameter: 0.18

166 1,2,3-Trimethylbenzene

Concentration: 1.21 ug/l







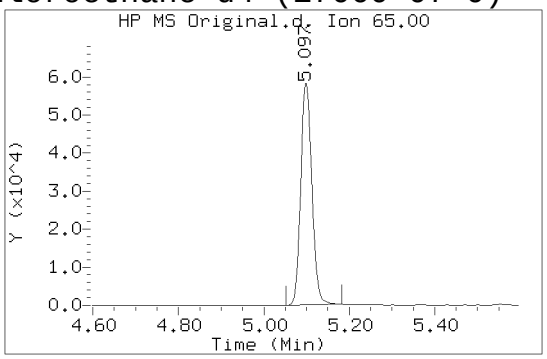
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053016.D
Inj Date : 30-MAY-2024 20:00
InstruID : VOA9.i
LabSampID : HS24051535-05

1,2-Dichloroethane-d4 (17060-07-0)

Reason Code:

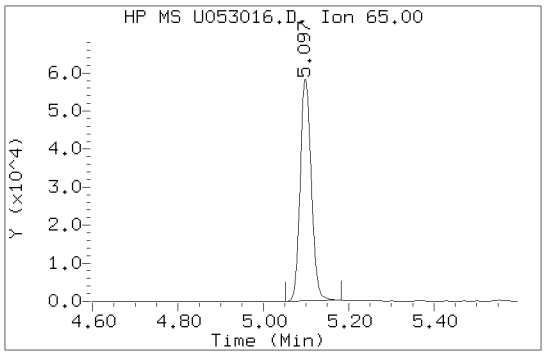
BEFORE

MASS
65
AREA
107628
HEIGHT
58135
24-Jun-2024
09:19
RUCHA
PATEL



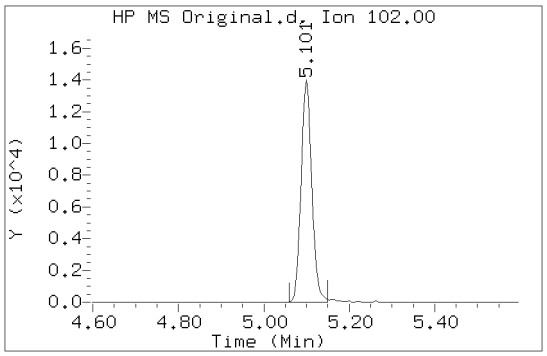
AFTER

MASS
65
AREA
107628
HEIGHT
58135
24-Jun-2024
09:19
RUCHA
PATEL



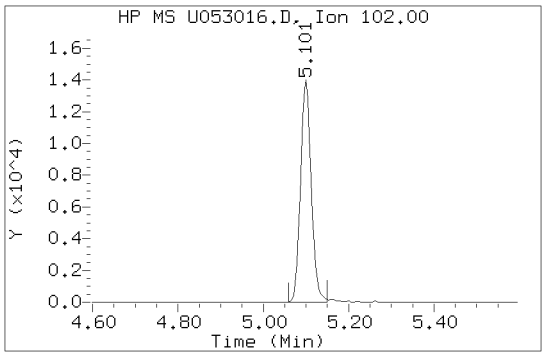
BEFORE

MASS
102
AREA
24806
HEIGHT
14003
24-Jun-2024
09:19
RUCHA
PATEL



AFTER

MASS
102
AREA
24806
HEIGHT
14003
24-Jun-2024
09:19
RUCHA
PATEL



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053017.D Page 1
Report Date: 24-Jun-2024 09:19

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053017.D
Lab Smp Id: HS24051535-06
Inj Date : 30-MAY-2024 20:22
Operator : TS   Inst ID: VOA9.i
Smp Info : HS24051535-06
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240530.b\8260C.m
Meth Date : 24-Jun-2024 09:18 r.patel   Quant Type: ISTD
Cal Date : 29-MAY-2024 11:00   Cal File: U052903.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

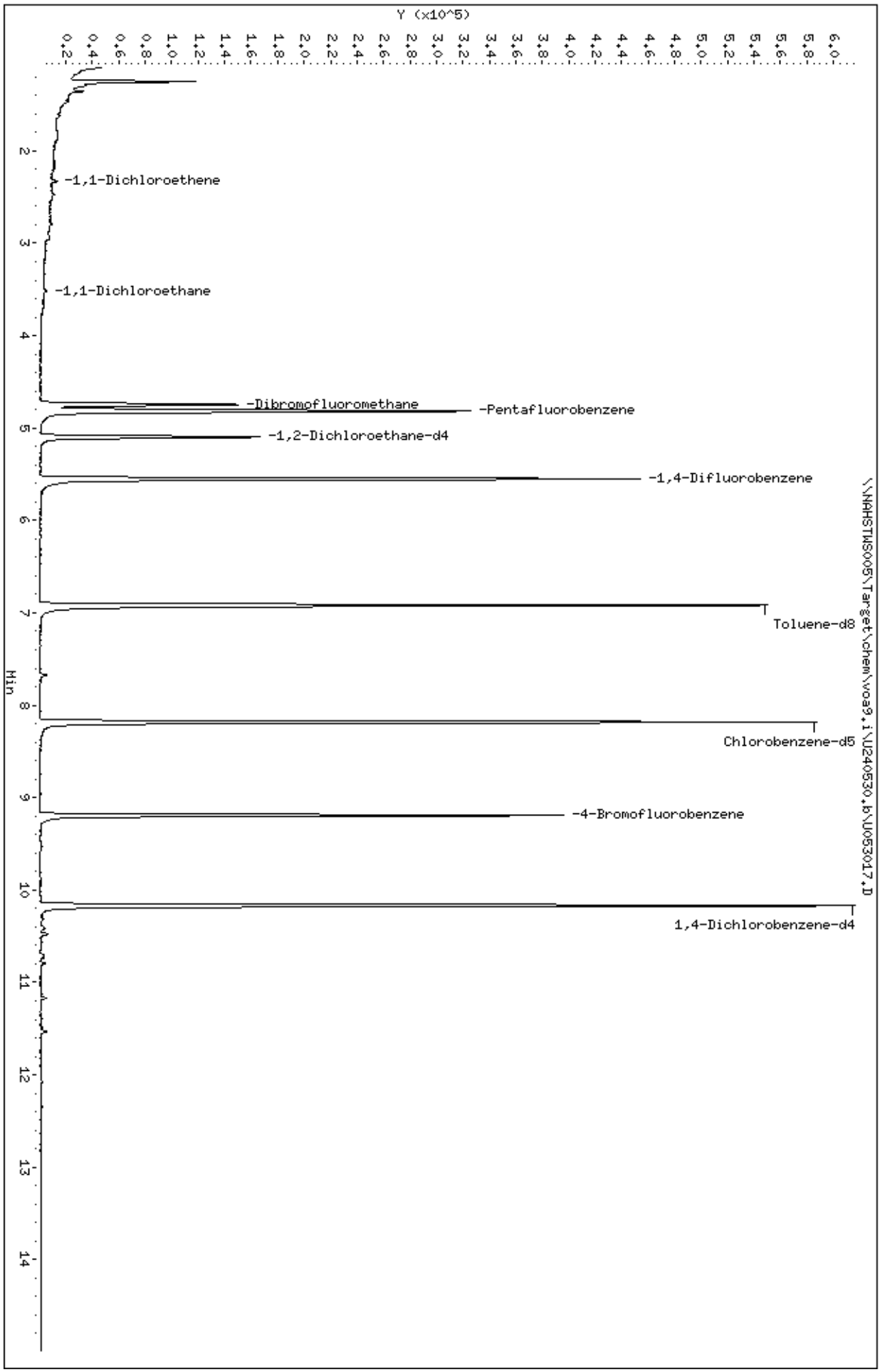
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
*	1 Pentafluorobenzene	168	4.815	4.815	(1.000)	237384	50.0000	
	11 1,1-Dichloroethene	96	2.334	2.337	(0.485)	1493	0.95407	0.95
	22 1,1-Dichloroethane	63	3.511	3.515	(0.729)	1800	0.52952	0.52
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	86919	57.4555	57.45
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	107506	58.8505	58.85(M)
*	36 1,4-Difluorobenzene	114	5.550	5.554	(1.000)	352355	50.0000	
*	47 Chlorobenzene-d5	117	8.182	8.182	(1.000)	320458	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.846)	340669	55.7260	55.72(M)
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	121228	54.4047	54.40
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	161453	50.0000	

QC Flag Legend

M - Compound response manually integrated.


Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053017.D
Date : 30-MAY-2024 20:22
Client ID:
Sample Info: HS24051535-06
Purge Volume: 5.0
Column phase: DB624
Instrument: VOA9.i
Operator: TS
Column diameter: 0.18
Y (x10^5)
Min
-1,1-Dichloroethene
-1,1-Dichloroethane
-Dibromofluoromethane
-Pentafluorobenzene
-1,2-Dichloroethane-d4
-1,4-Difluorobenzene
Toluene-d8
Chlorobenzene-d5
-4-Bromofluorobenzene
1,4-Dichlorobenzene-d4
\\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053017.D

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053017.D

Date : 30-MAY-2024 20:22

Client ID:

Instrument: VOA9.i

Sample Info: HS24051535-06

Purge Volume: 5.0

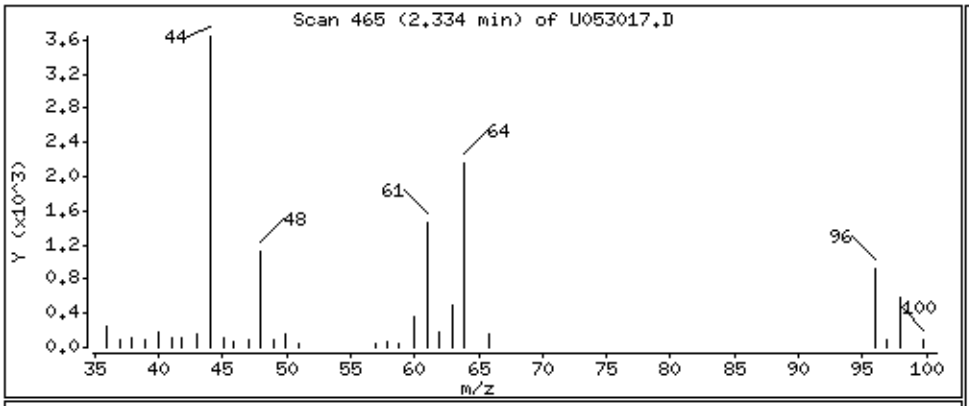
Operator: TS

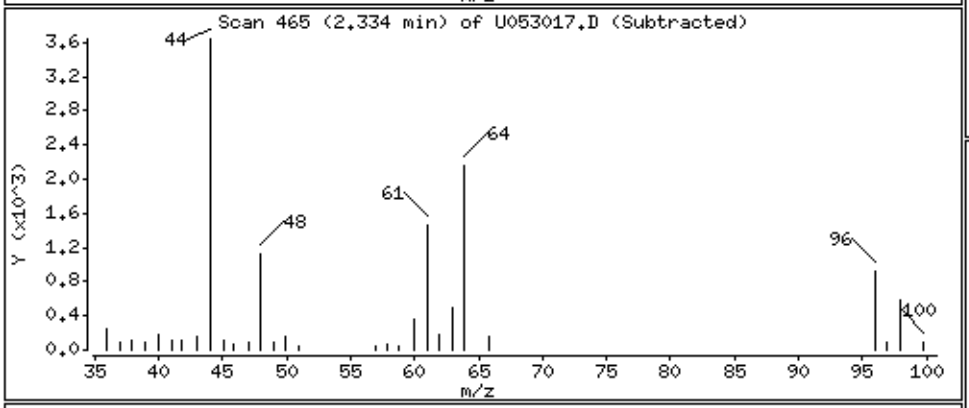
Column phase: DB624

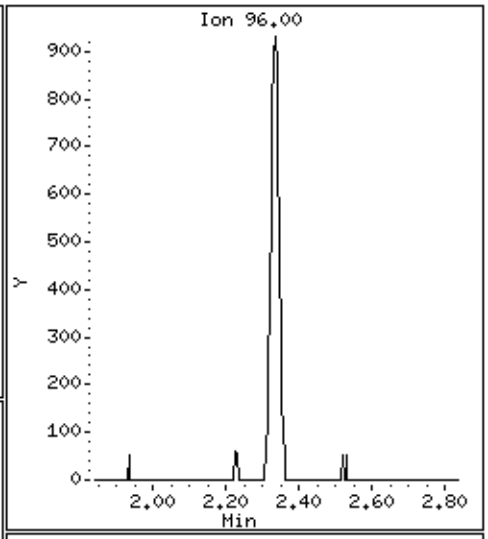
Column diameter: 0.18

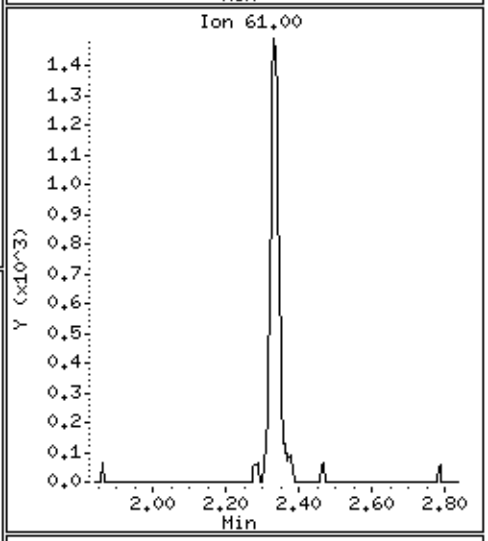
11 1,1-Dichloroethene

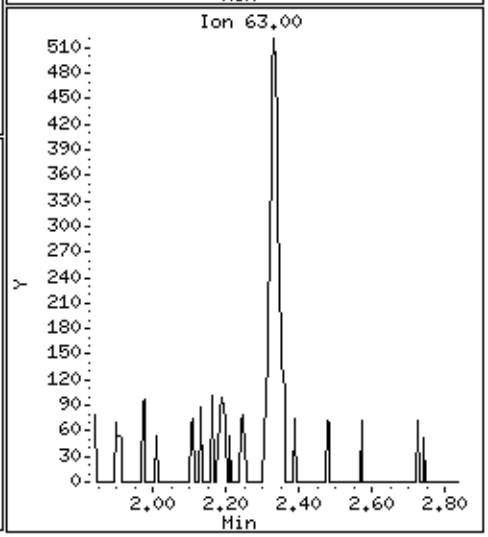
Concentration: 0.95 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053017.D Page 3

Date : 30-MAY-2024 20:22

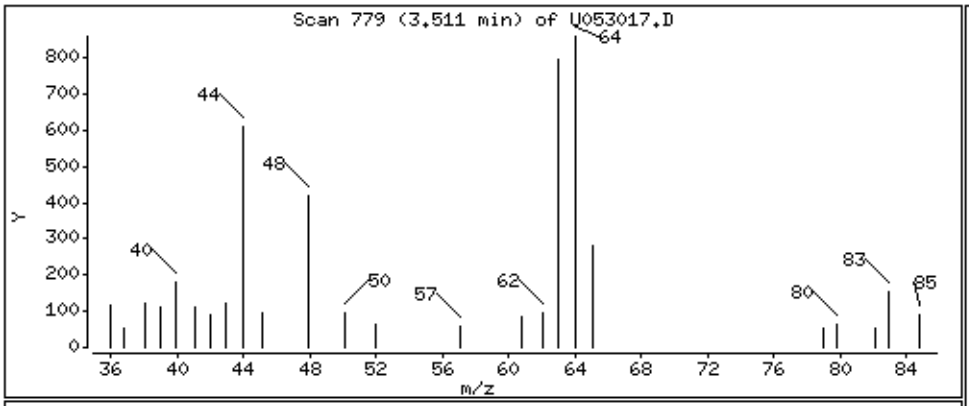
Client ID: Instrument: VOA9.i

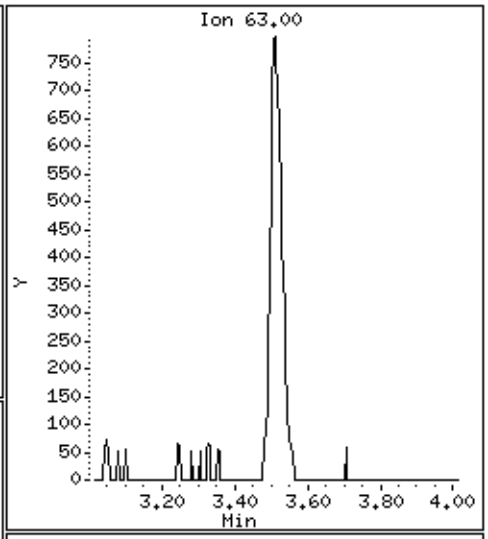
Sample Info: HS24051535-06

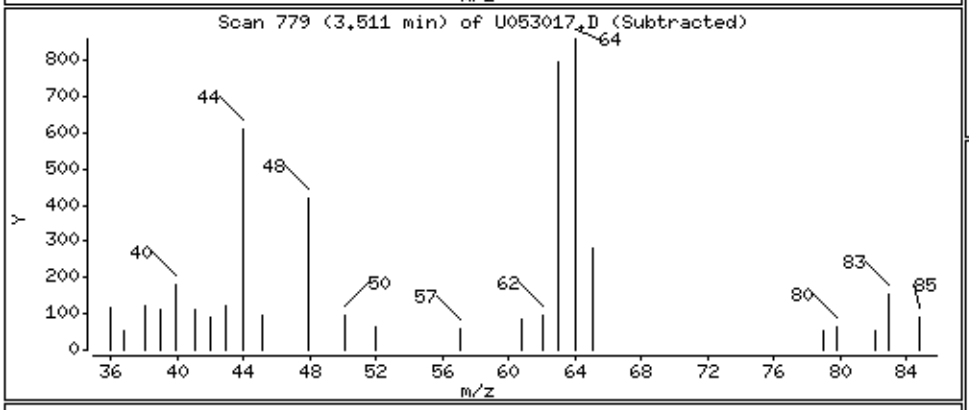
Purge Volume: 5.0 Operator: TS

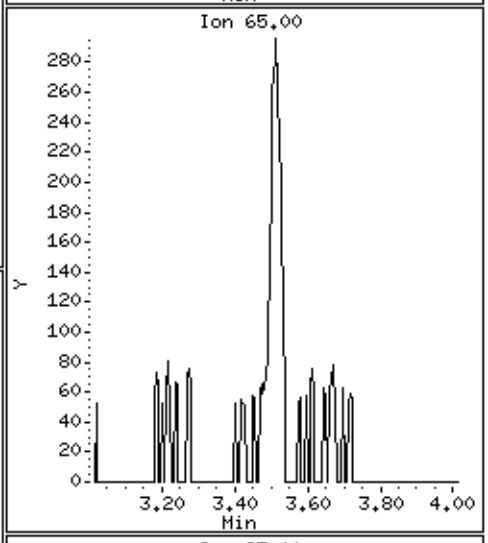
Column phase: DB624 Column diameter: 0.18

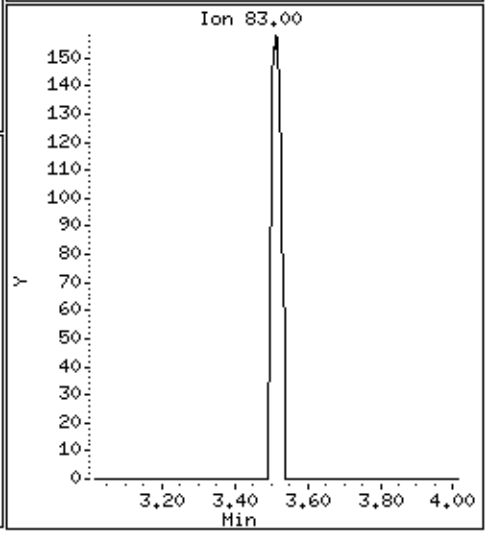
22 1,1-Dichloroethane Concentration: 0.52 ug/l











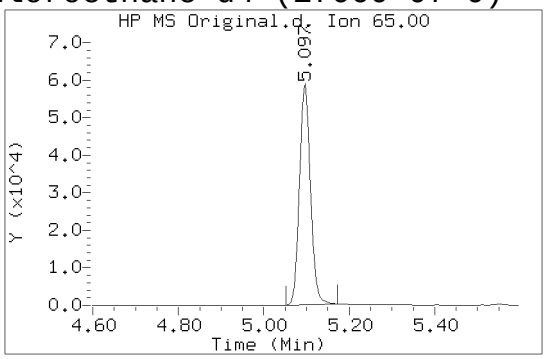
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053017.D
Inj Date : 30-MAY-2024 20:22
InstruID : VOA9.i
LabSampID : HS24051535-06

1,2-Dichloroethane-d4 (17060-07-0)

Reason Code:

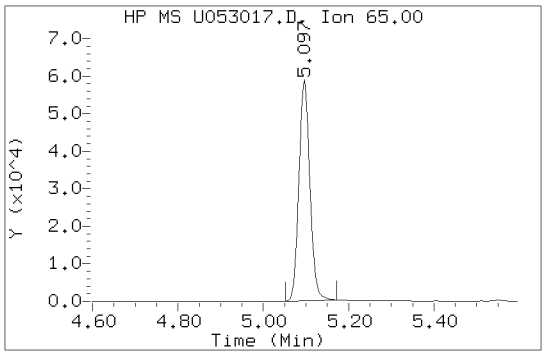
BEFORE

MASS
65
AREA
107506
HEIGHT
58900
24-Jun-2024
09:19
RUCHA
PATEL



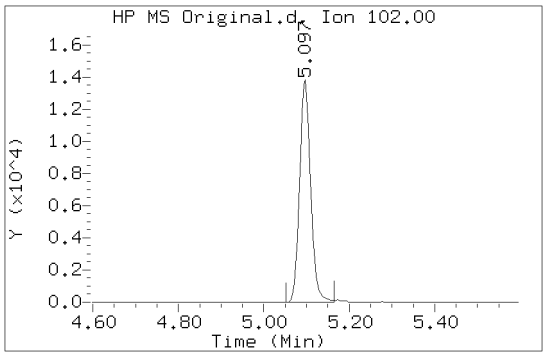
AFTER

MASS
65
AREA
107506
HEIGHT
58900
24-Jun-2024
09:19
RUCHA
PATEL



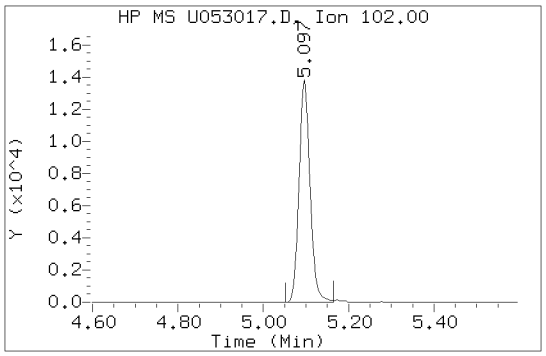
BEFORE

MASS
102
AREA
25362
HEIGHT
13829
24-Jun-2024
09:19
RUCHA
PATEL



AFTER

MASS
102
AREA
25362
HEIGHT
13829
24-Jun-2024
09:19
RUCHA
PATEL

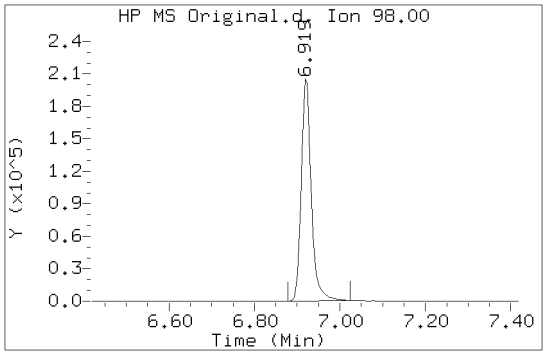


Toluene-d8 (2037-26-5)

Reason Code:

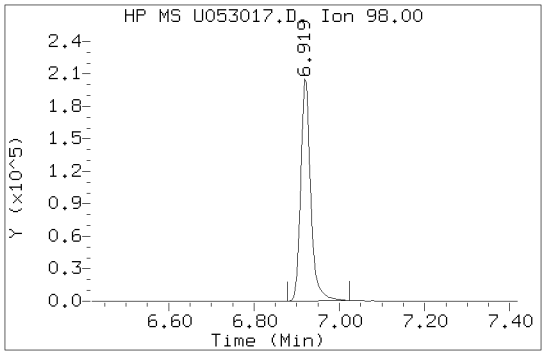
BEFORE

MASS
98
AREA
340669
HEIGHT
205252
24-Jun-2024
09:19
RUCHA
PATEL



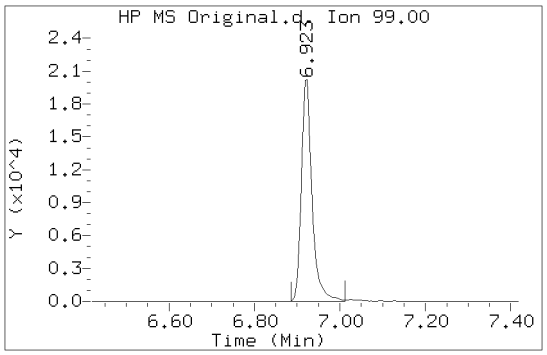
AFTER

MASS
98
AREA
340669
HEIGHT
205252
24-Jun-2024
09:19
RUCHA
PATEL



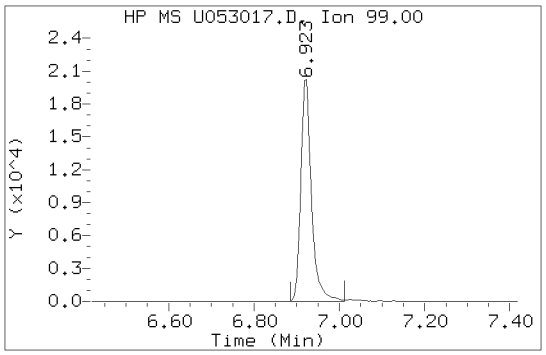
BEFORE

MASS
99
AREA
35946
HEIGHT
20216
24-Jun-2024
09:19
RUCHA
PATEL



AFTER

MASS
99
AREA
35946
HEIGHT
20216
24-Jun-2024
09:19
RUCHA
PATEL



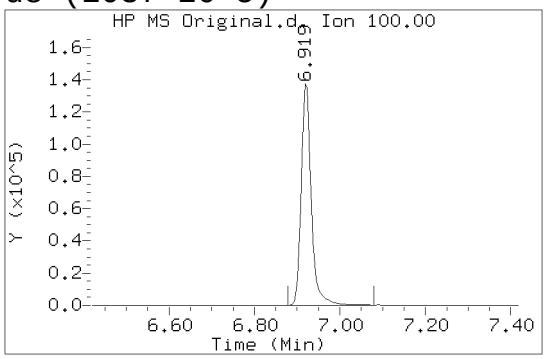
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053017.D
Inj Date : 30-MAY-2024 20:22
InstruID : VOA9.i
LabSampID : HS24051535-06

Toluene-d8 (2037-26-5)

Reason Code:

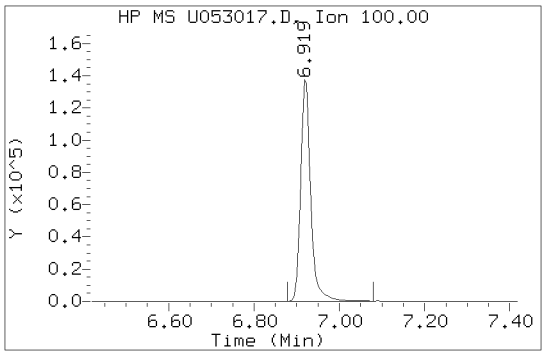
BEFORE

MASS
100
AREA
230426
HEIGHT
137536
24-Jun-2024
09:19
RUCHA
PATEL



AFTER

MASS
100
AREA
230426
HEIGHT
137536
24-Jun-2024
09:19
RUCHA
PATEL



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053018.D Page 1
Report Date: 24-Jun-2024 09:19

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053018.D
Lab Smp Id: HS24051535-07
Inj Date : 30-MAY-2024 20:43
Operator : TS   Inst ID: VOA9.i
Smp Info : HS24051535-07
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240530.b\8260C.m
Meth Date : 24-Jun-2024 09:18 r.patel   Quant Type: ISTD
Cal Date : 29-MAY-2024 11:00   Cal File: U052903.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

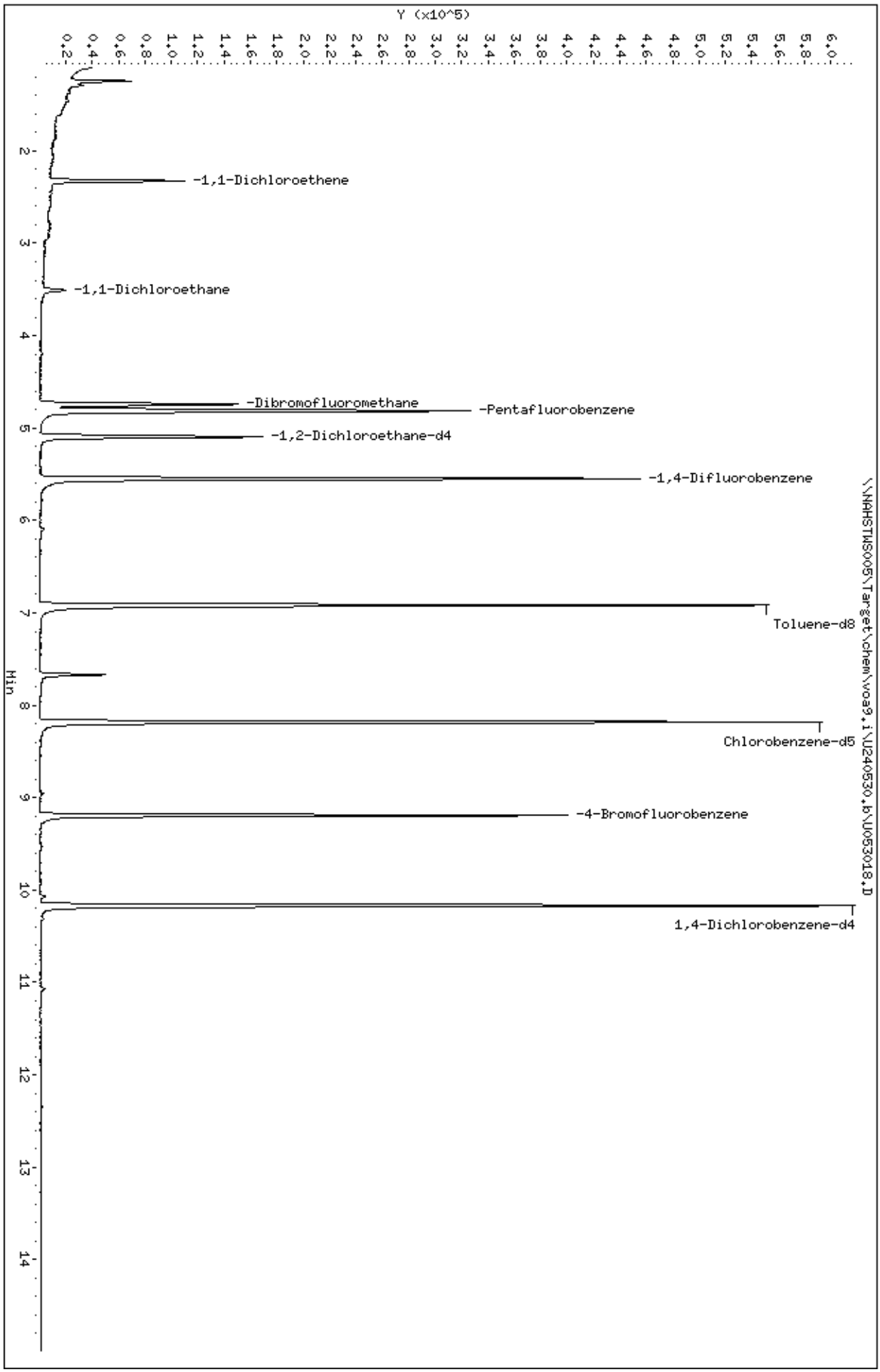
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.811	4.815	(1.000)	236991	50.0000	
11 1,1-Dichloroethene	96	2.326	2.337	(0.483)	33692	21.5658	21.56
22 1,1-Dichloroethane	63	3.507	3.515	(0.729)	16678	4.91444	4.91
$ 30 Dibromofluoromethane	113	4.744	4.748	(0.986)	87609	57.9947	57.99
$ 35 1,2-Dichloroethane-d4	65	5.093	5.096	(1.058)	107422	58.9017	58.90(M)
* 36 1,4-Difluorobenzene	114	5.550	5.554	(1.000)	353152	50.0000	
* 47 Chlorobenzene-d5	117	8.181	8.182	(1.000)	321914	50.0000	
$ 48 Toluene-d8	98	6.918	6.918	(0.846)	342006	55.6918	55.69
$ 69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	122482	54.7194	54.71
* 70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	162327	50.0000	

QC Flag Legend

M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053018.D
Date : 30-MAY-2024 20:43
Client ID:
Sample Info: HS24051535-07
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053018.D Page 2

Date : 30-MAY-2024 20:43

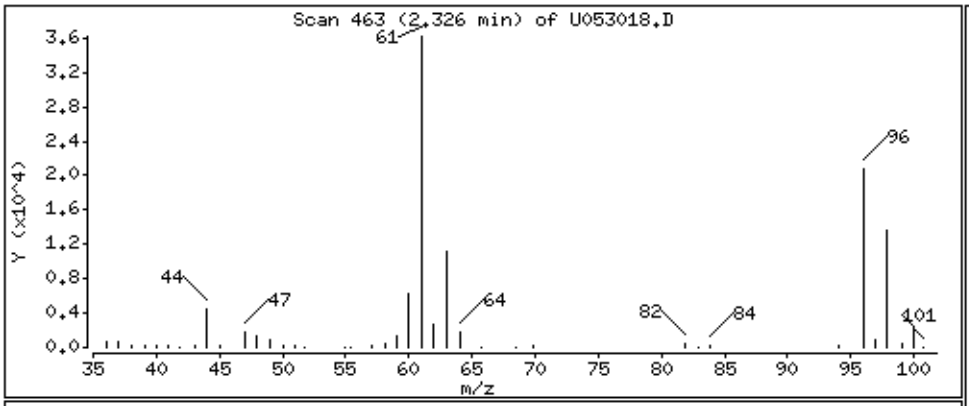
Client ID: Instrument: VOA9.i

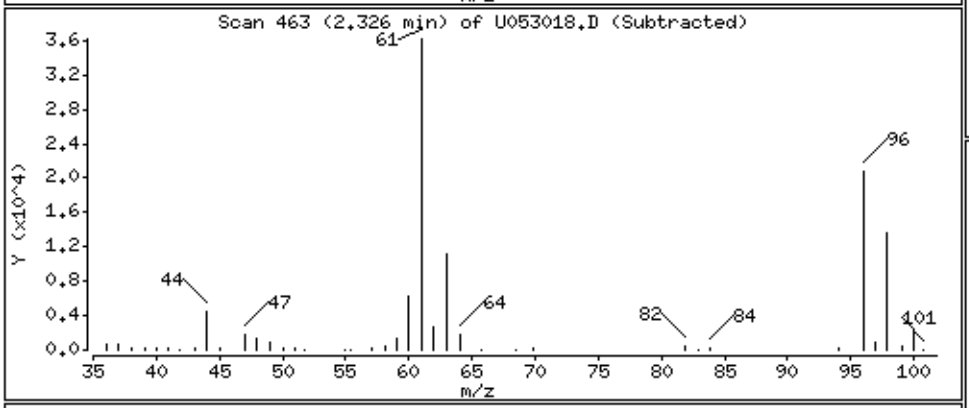
Sample Info: HS24051535-07

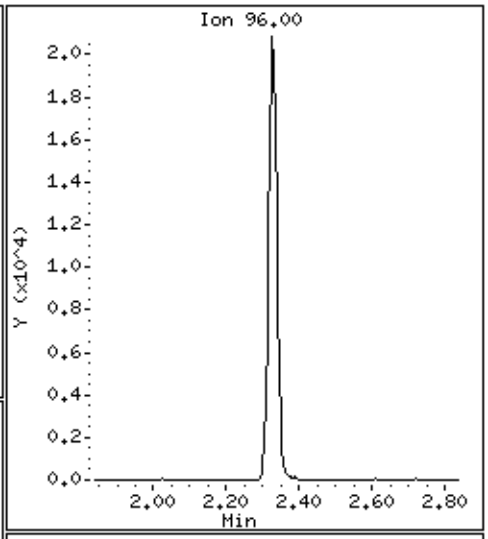
Purge Volume: 5.0 Operator: TS

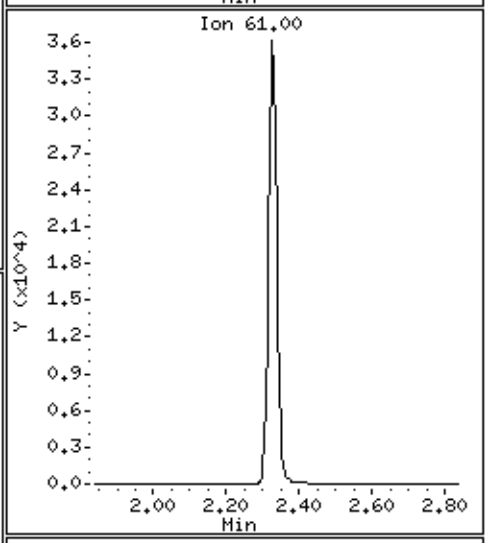
Column phase: DB624 Column diameter: 0.18

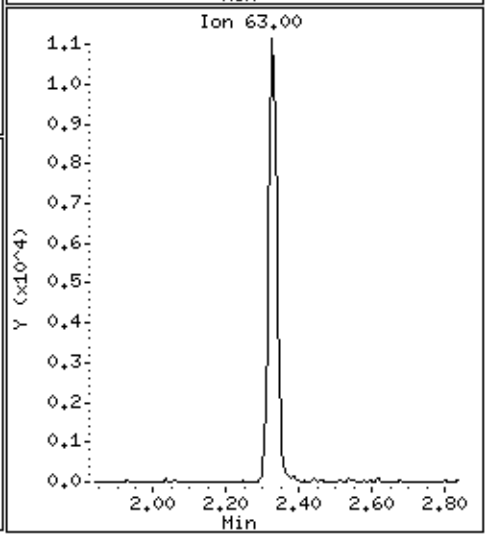
11 1,1-Dichloroethene Concentration: 21.56 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053018.D Page 3

Date : 30-MAY-2024 20:43

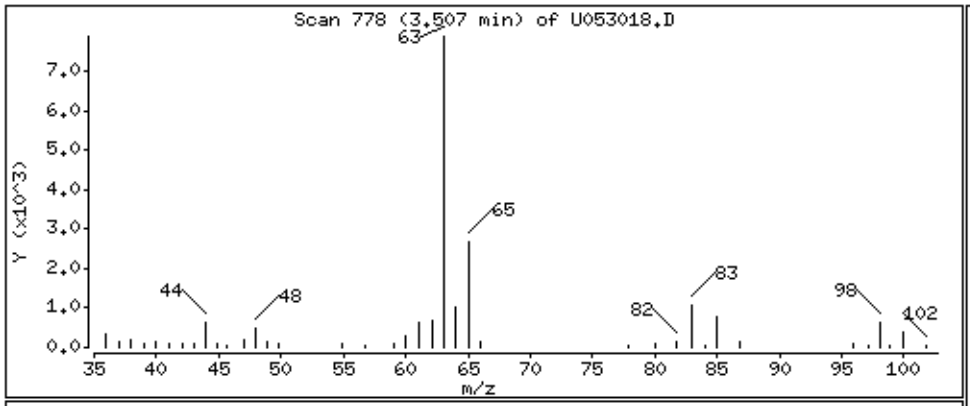
Client ID: Instrument: VOA9.i

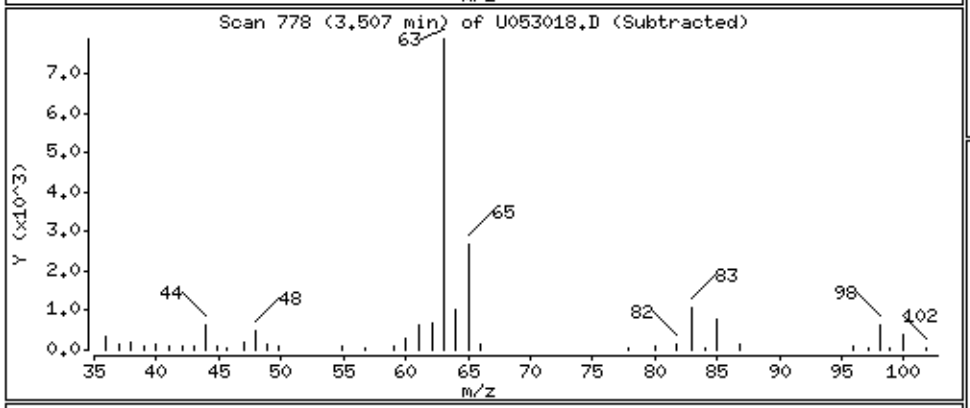
Sample Info: HS24051535-07

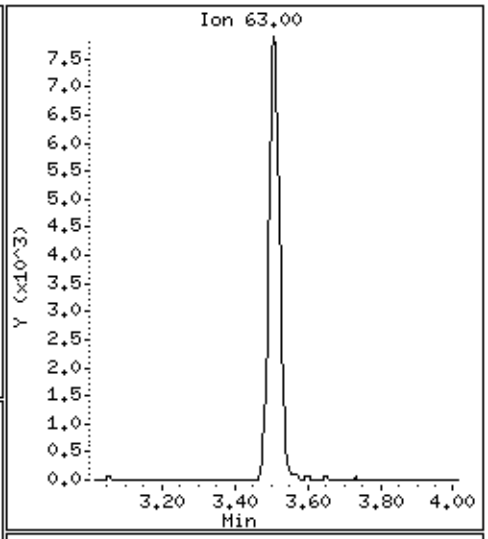
Purge Volume: 5.0 Operator: TS

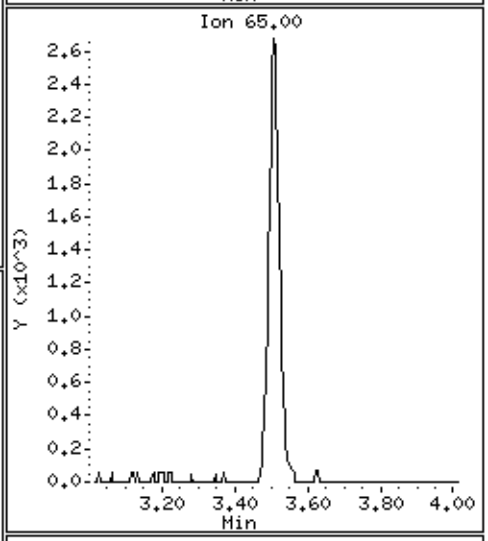
Column phase: DB624 Column diameter: 0.18

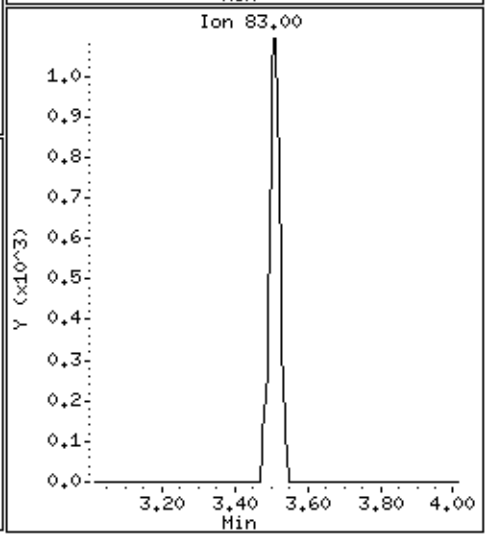
22 1,1-Dichloroethane Concentration: 4.91 ug/l











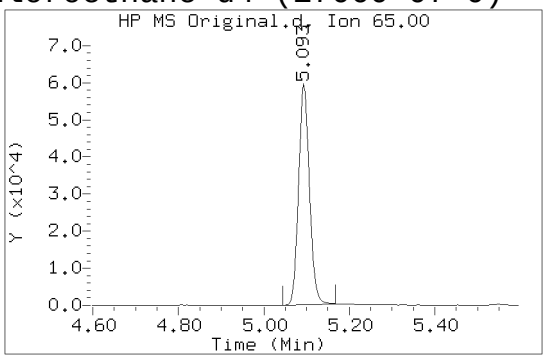
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053018.D
Inj Date : 30-MAY-2024 20:43
InstruID : VOA9.i
LabSampID : HS24051535-07

1,2-Dichloroethane-d4 (17060-07-0)

Reason Code:

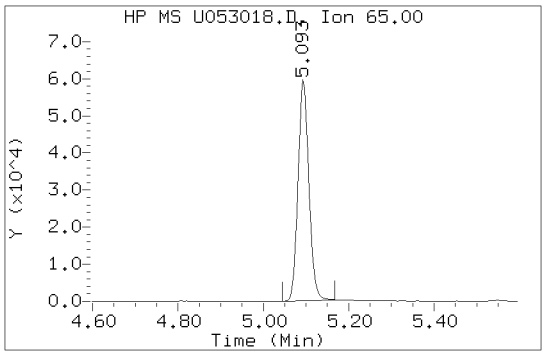
BEFORE

MASS
65
AREA
107422
HEIGHT
59607
24-Jun-2024
09:19
RUCHA
PATEL



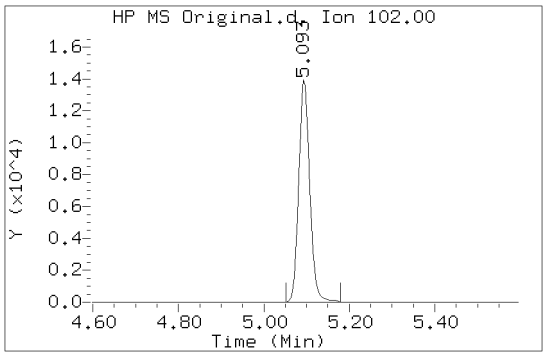
AFTER

MASS
65
AREA
107422
HEIGHT
59607
24-Jun-2024
09:19
RUCHA
PATEL



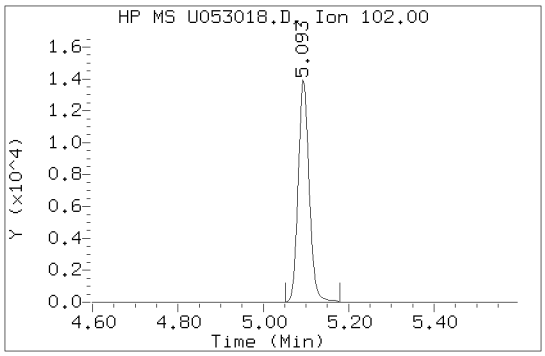
BEFORE

MASS
102
AREA
25505
HEIGHT
13935
24-Jun-2024
09:19
RUCHA
PATEL



AFTER

MASS
102
AREA
25505
HEIGHT
13935
24-Jun-2024
09:19
RUCHA
PATEL



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053019.D Page 1
Report Date: 24-Jun-2024 09:19

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053019.D
Lab Smp Id: HS24051535-03
Inj Date : 30-MAY-2024 21:07
Operator : TS   Inst ID: VOA9.i
Smp Info : HS24051535-03
Misc Info : V9;WATER;0;5;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240530.b\8260C.m
Meth Date : 24-Jun-2024 09:18 r.patel   Quant Type: ISTD
Cal Date : 29-MAY-2024 11:00   Cal File: U052903.D
Als bottle: 18
Dil Factor: 5.00000
Integrator: HP RTE   Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	5.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

		QUANT SIG					CONCENTRATIONS ON-COLUMN	FINAL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
*	1 Pentafluorobenzene	168	4.815	4.815	(1.000)	211103	50.0000	
	5 Vinyl Chloride	62	1.377	1.385	(0.286)	153321	96.1776	480.88
	11 1,1-Dichloroethene	96	2.330	2.337	(0.484)	396197	284.700	1423.49(A)
	20 trans-1,2-Dichloroethene	96	3.057	3.061	(0.635)	1507	0.95767	4.78
	22 1,1-Dichloroethane	63	3.510	3.515	(0.729)	233345	77.1909	385.95
	27 cis-1,2-Dichloroethene	96	4.193	4.197	(0.871)	28437	14.6322	73.16
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	76933	57.1918	57.19
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	5839	3.07843	15.39
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	95611	58.8548	58.85(M)
*	36 1,4-Difluorobenzene	114	5.550	5.554	(1.000)	312730	50.0000	
	37 Benzene	78	5.137	5.138	(0.926)	8904	1.20879	6.04
	38 Trichloroethene	130	5.786	5.786	(1.043)	47763	26.3451	131.72
*	47 Chlorobenzene-d5	117	8.185	8.182	(1.000)	283254	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.845)	300626	55.6352	55.63
	52 2-Hexanone	43	7.671	7.589	(0.937)	2699	3.87414	19.37(a)
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	15308	11.1531	55.76
$	69 4-Bromofluorobenzene	95	9.193	9.190	(1.123)	105605	53.6169	53.61
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	138434	50.0000	
	84 1,4-Dichlorobenzene	146	10.191	10.187	(1.002)	3143	0.88287	4.41(a)
	88 1,2-Dichlorobenzene	146	10.505	10.502	(1.033)	17086	5.13007	25.65

	142	Tetrahydrofuran	42	4.549	4.542 (0.945)	1779	4.03435	20.17(a)
M	94	1,2-Dichloroethylene (total)	96			29944	17.0278	85.13

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053019.D

Date : 30-MAY-2024 21:07

Client ID:

Instrument: VOA9.i

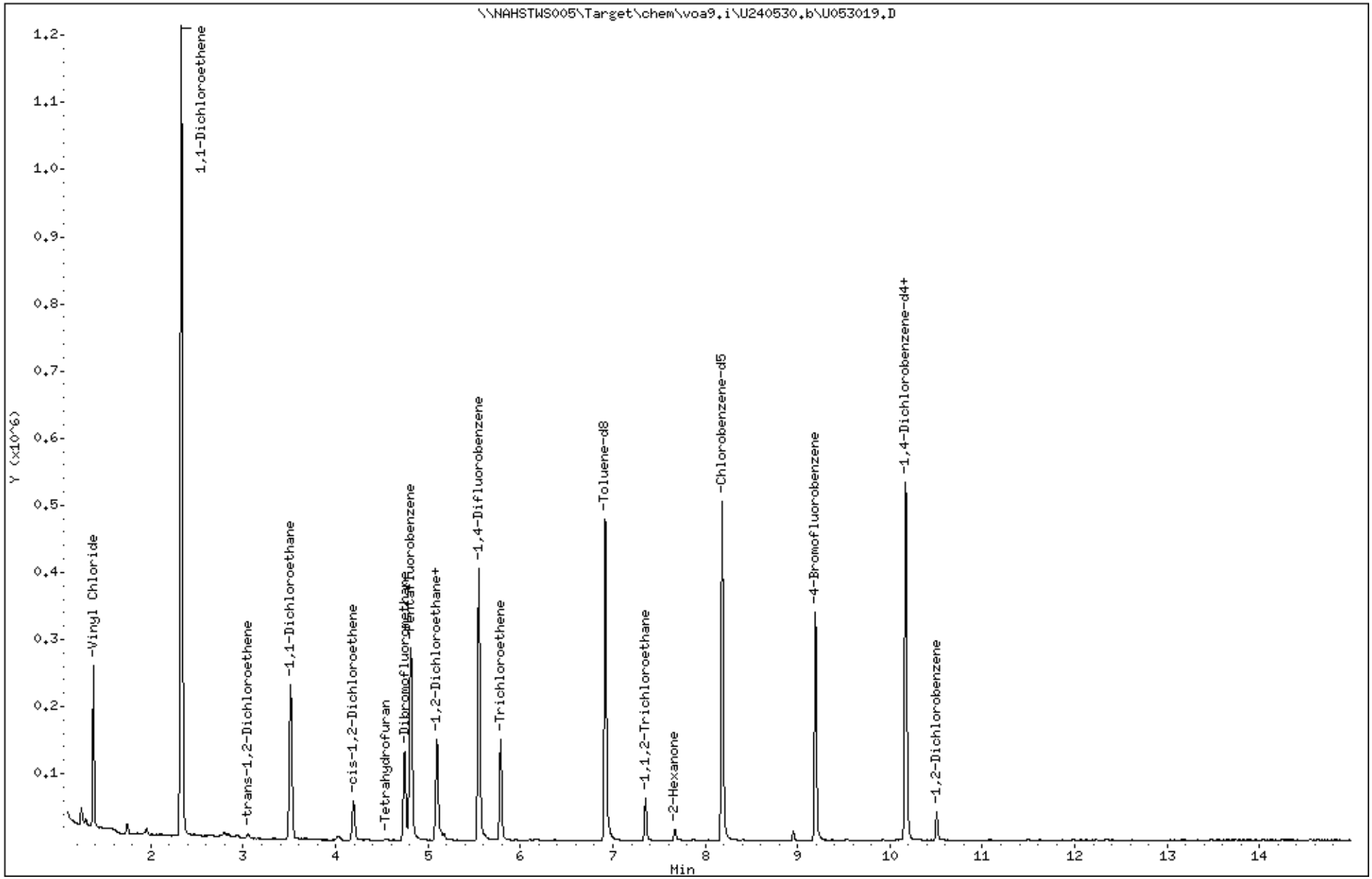
Sample Info: HS24051535-03

Purge Volume: 5.0

Operator: TS

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053019.D

Date : 30-MAY-2024 21:07

Client ID:

Instrument: VOA9.i

Sample Info: HS24051535-03

Purge Volume: 5.0

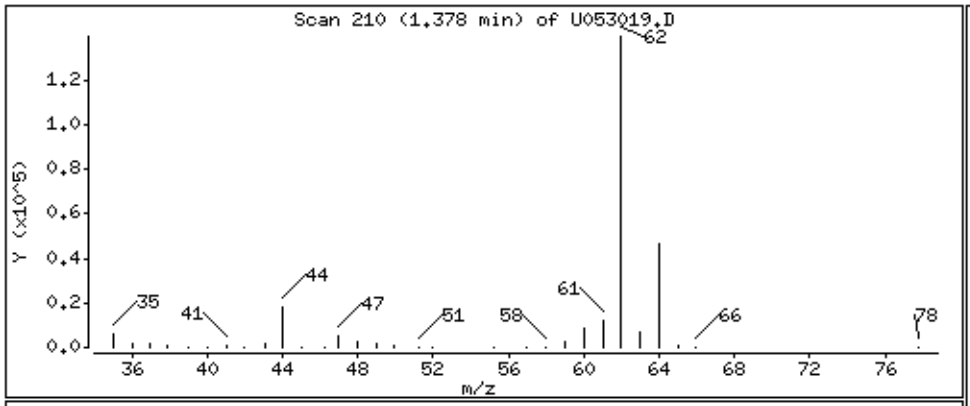
Operator: TS

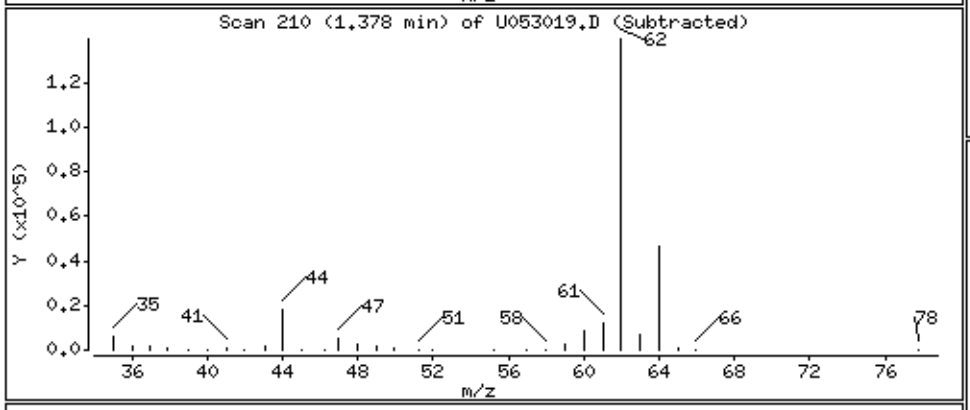
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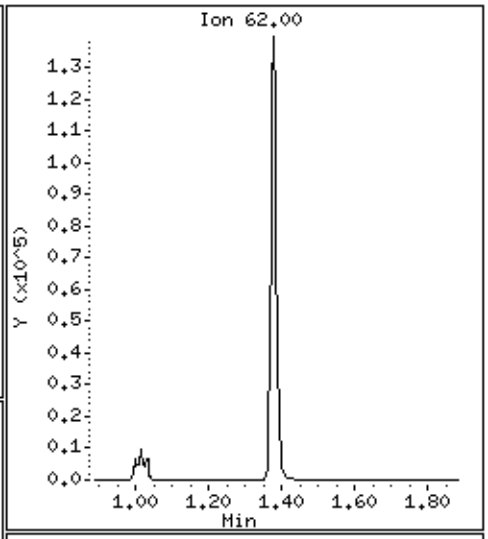
Column diameter: 0.18

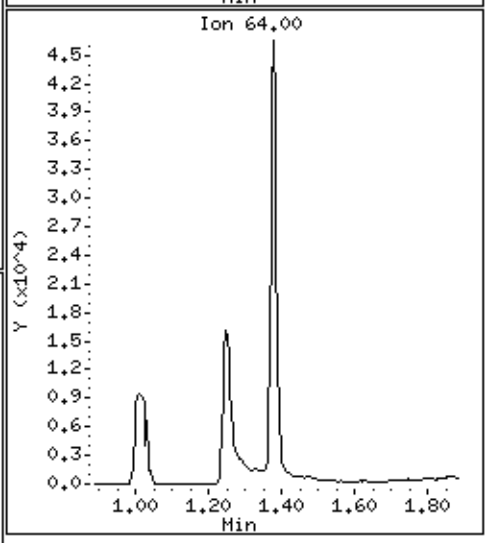
5 Vinyl Chloride

Concentration: 480.88 ug/l









Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053019.D

Date : 30-MAY-2024 21:07

Client ID:

Instrument: VOA9.i

Sample Info: HS24051535-03

Purge Volume: 5.0

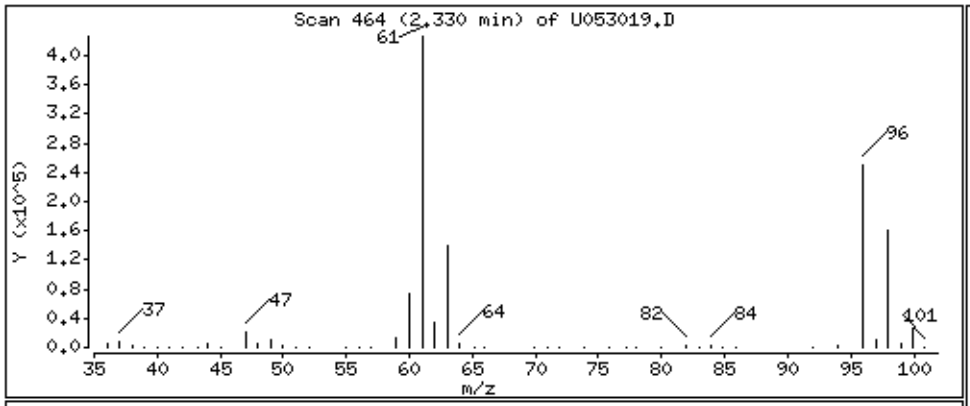
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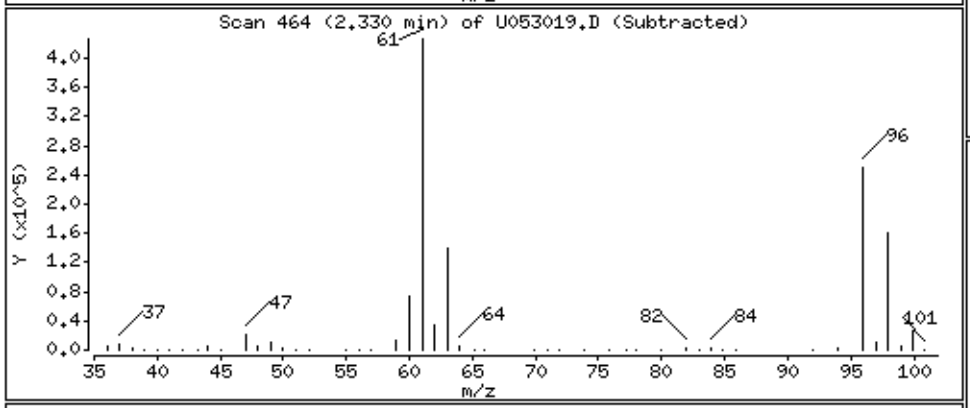
Column phase: DB624

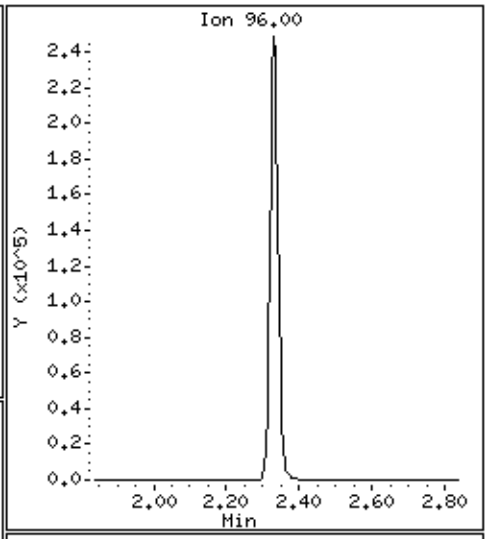
Column diameter: 0.18

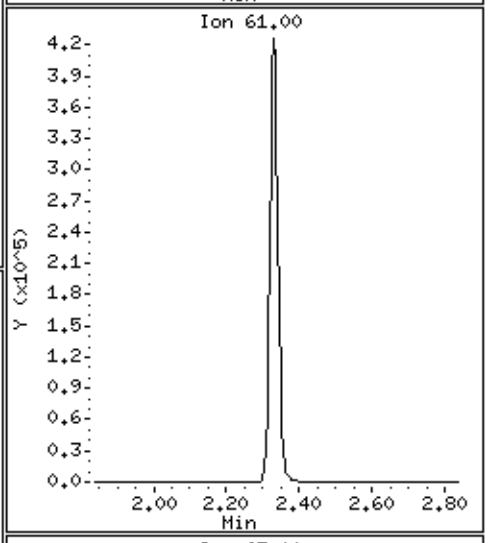
11 1,1-Dichloroethene

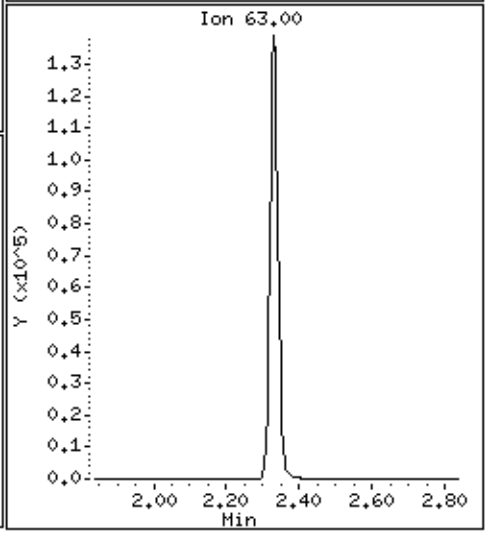
Concentration: 1423.49 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053019.D

Date : 30-MAY-2024 21:07

Client ID:

Instrument: VOA9.i

Sample Info: HS24051535-03

Purge Volume: 5.0

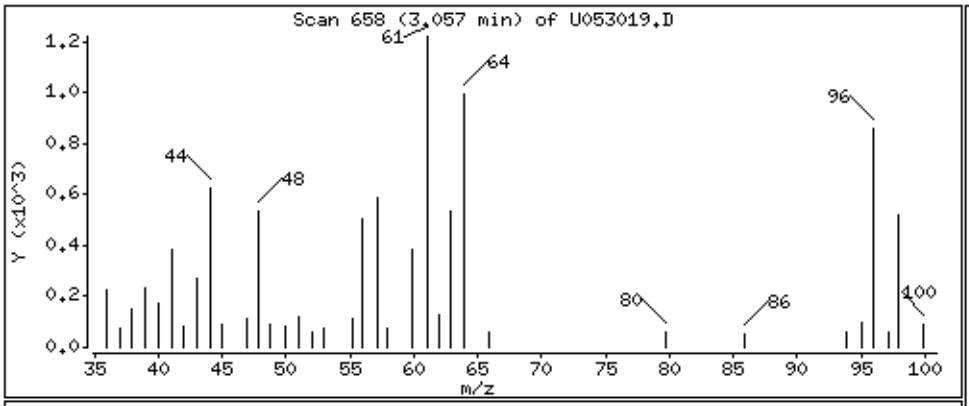
Operator: TS

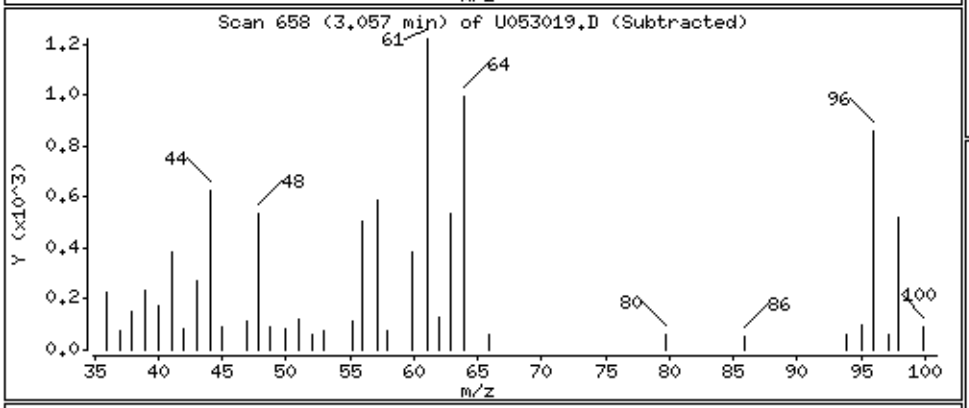
Column phase: DB624

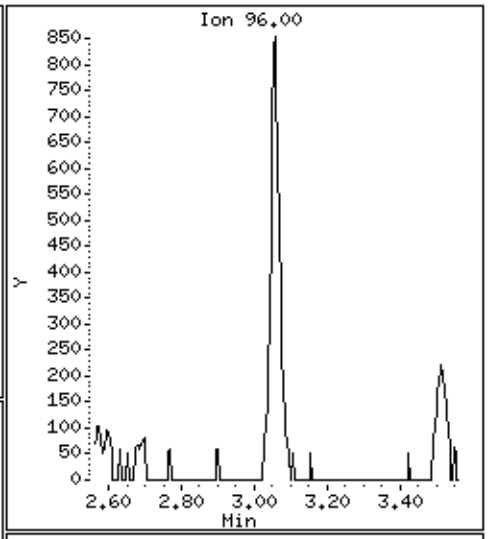
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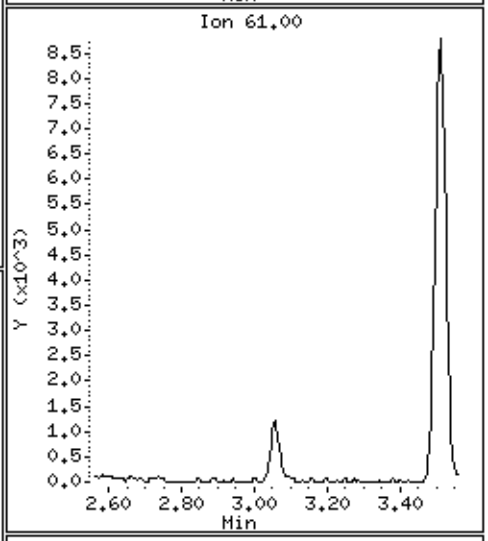
20 trans-1,2-Dichloroethene

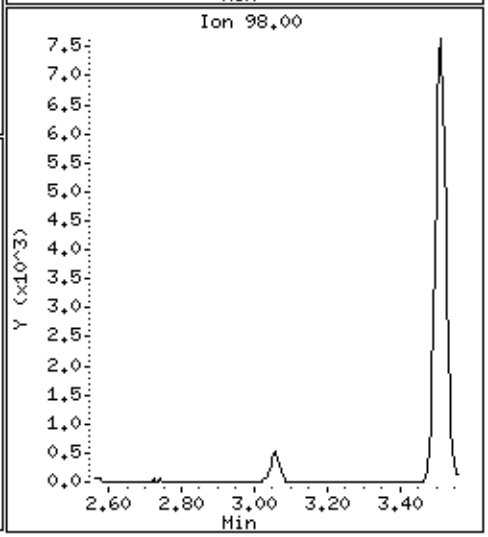
Concentration: 4.78 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053019.D Page 5

Date : 30-MAY-2024 21:07

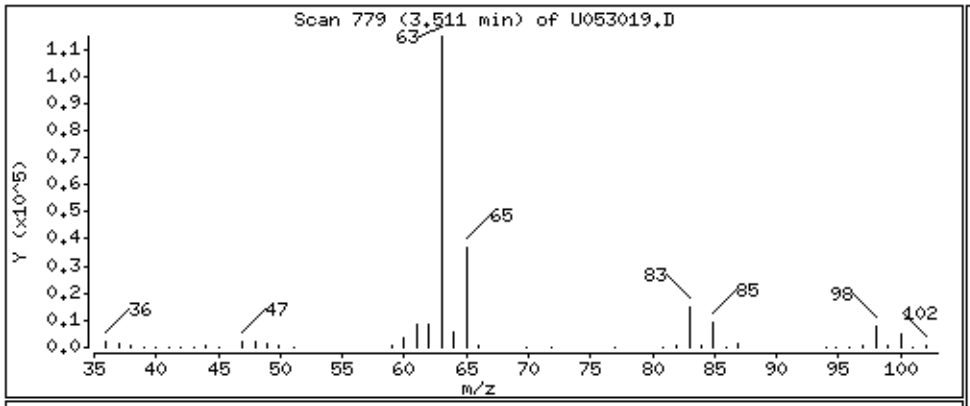
Client ID: Instrument: VOA9.i

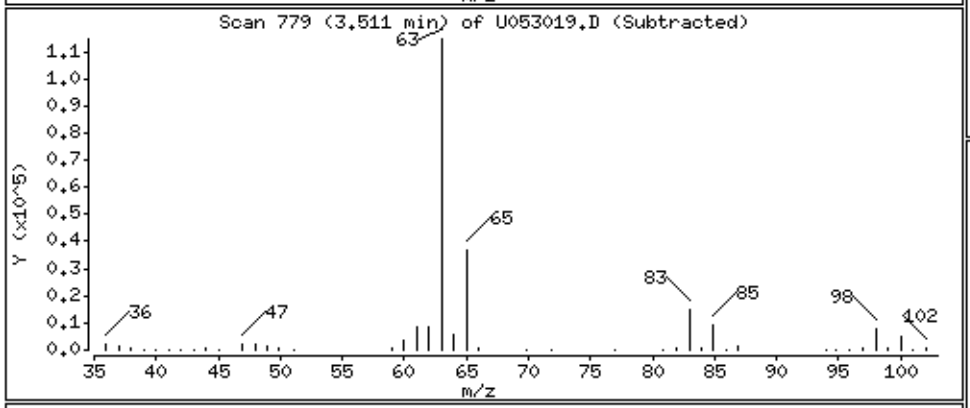
Sample Info: HS24051535-03

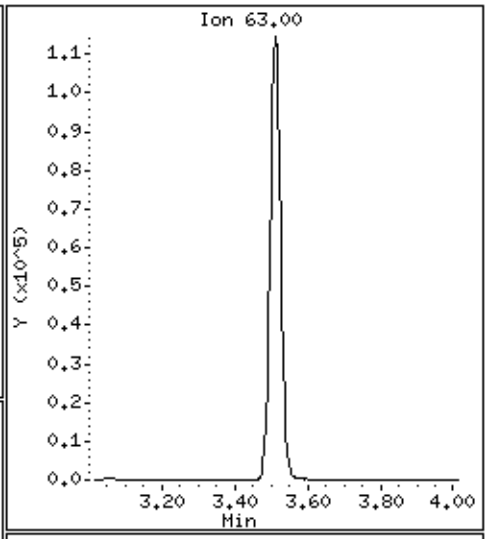
Purge Volume: 5.0 Operator: TS

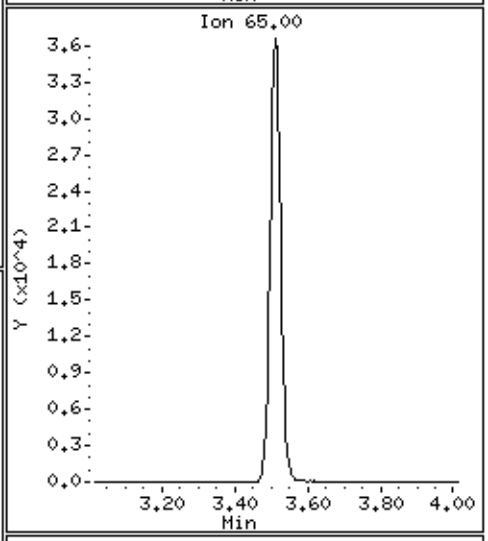
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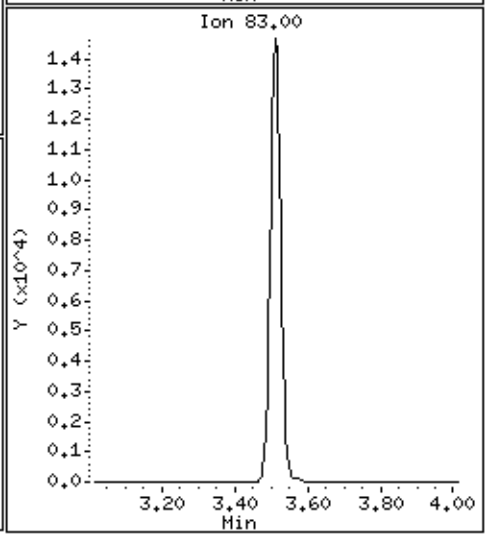
22 1,1-Dichloroethane Concentration: 385.95 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053019.D

Date : 30-MAY-2024 21:07

Client ID:

Instrument: VOA9.i

Sample Info: HS24051535-03

Purge Volume: 5.0

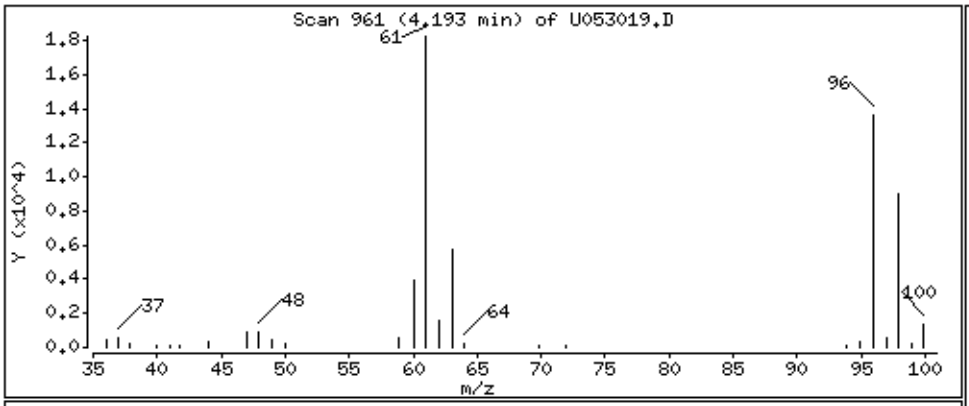
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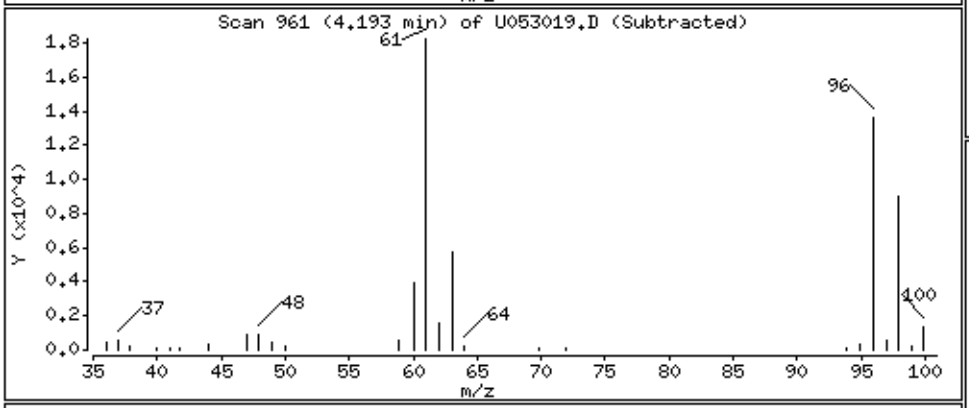
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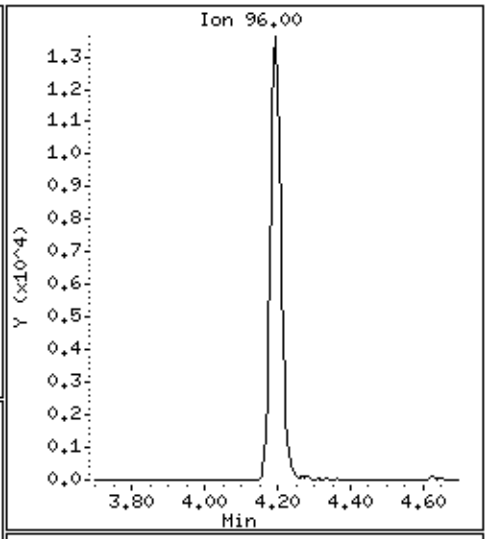
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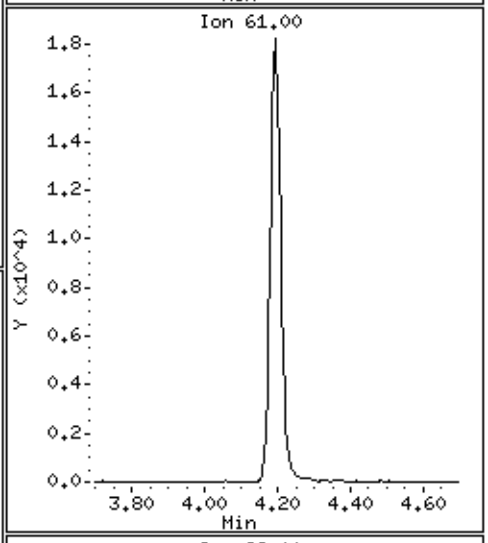
27 cis-1,2-Dichloroethene

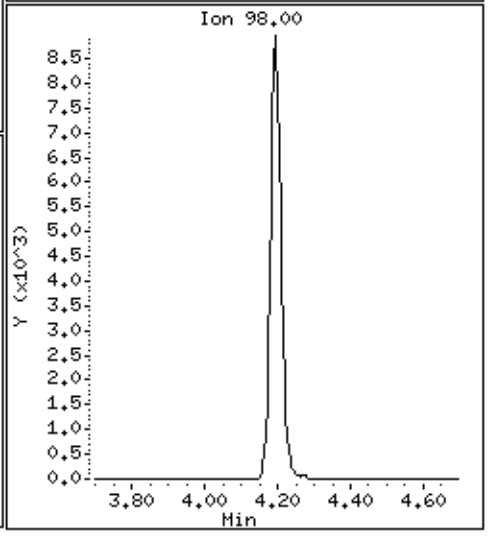
Concentration: 73.16 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053019.D Page 7

Date : 30-MAY-2024 21:07

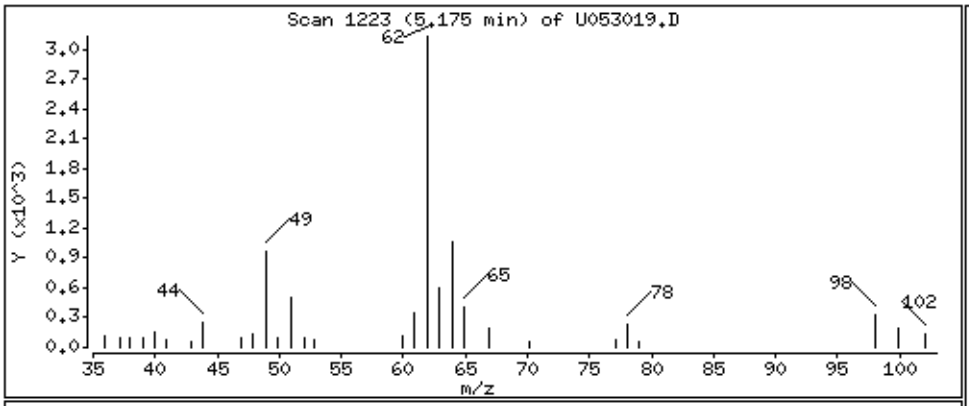
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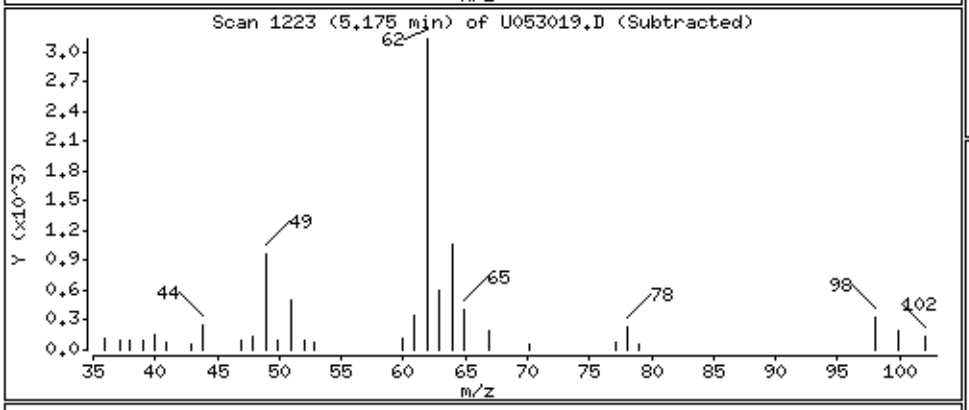
Sample Info: HS24051535-03

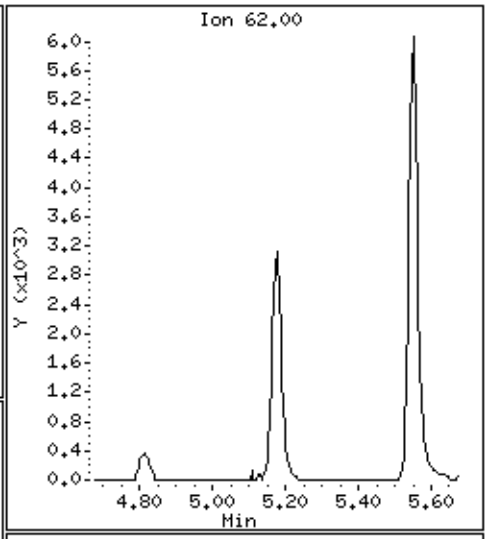
Purge Volume: 5.0 Operator: TS

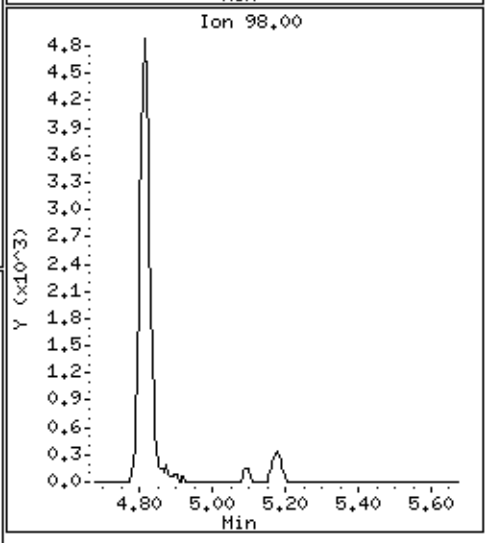
Column phase: DB624 Column diameter: 0.18

33 1,2-Dichloroethane Concentration: 15.39 ug/l









Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053019.D

Date : 30-MAY-2024 21:07

Client ID:

Instrument: VOA9.i

Sample Info: HS24051535-03

Purge Volume: 5.0

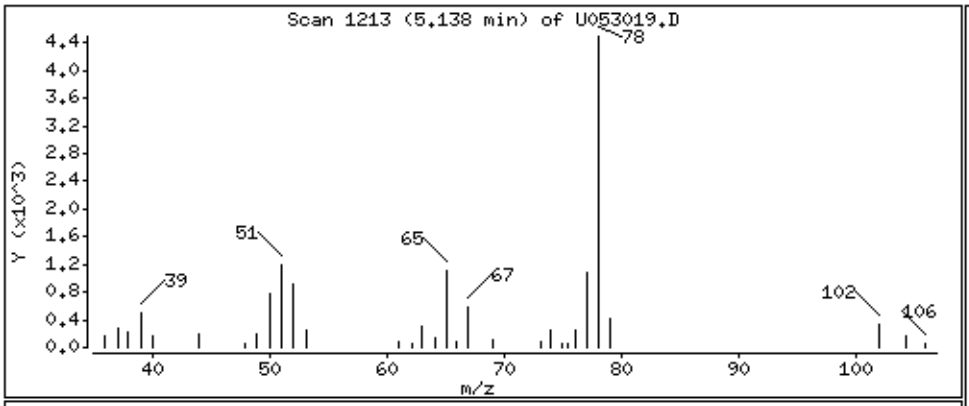
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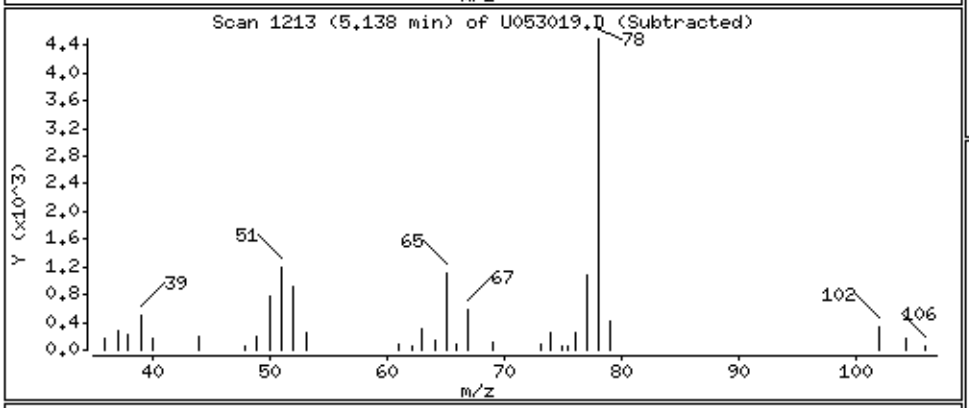
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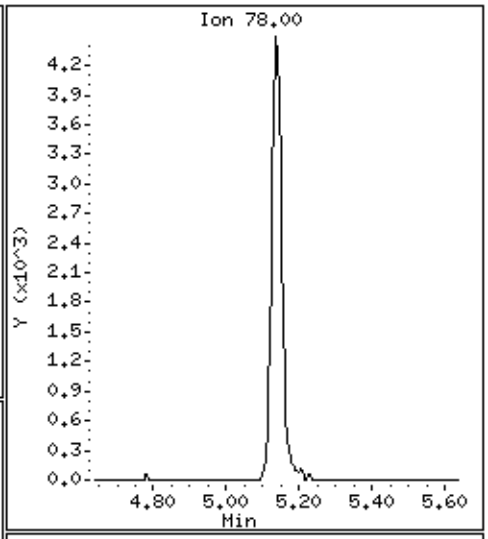
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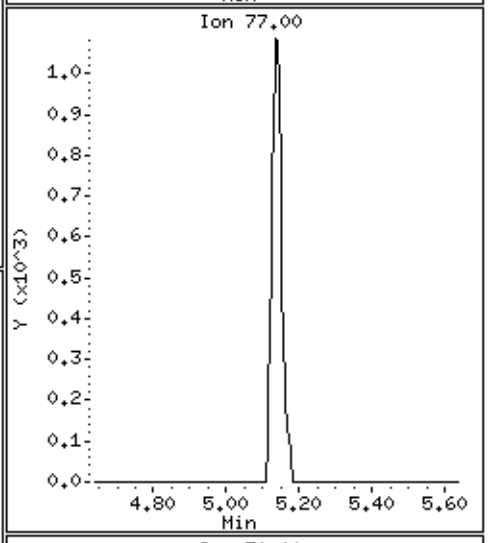
37 Benzene

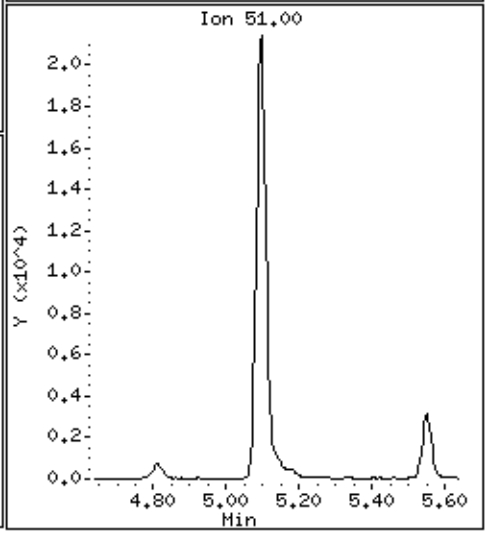
Concentration: 6.04 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053019.D

Date : 30-MAY-2024 21:07

Client ID:

Instrument: VOA9.i

Sample Info: HS24051535-03

Purge Volume: 5.0

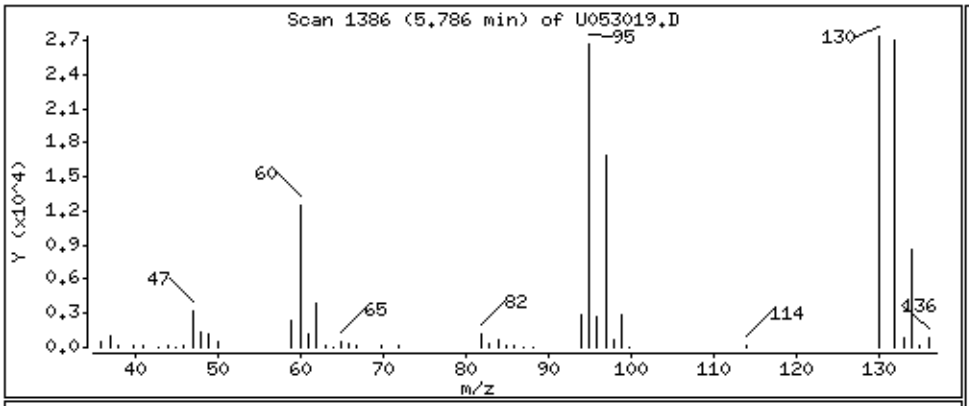
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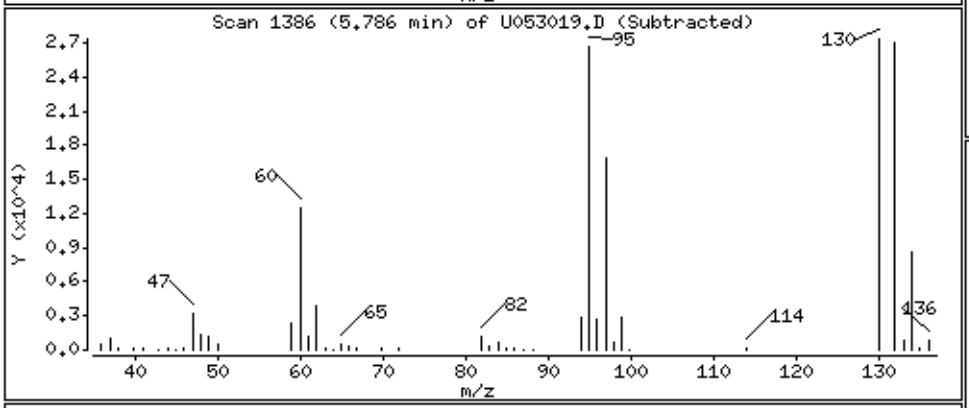
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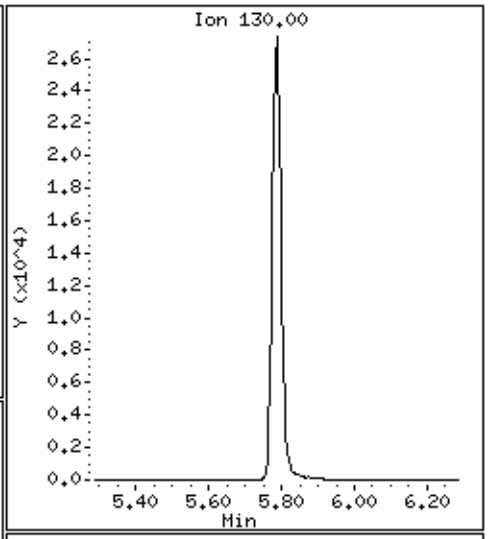
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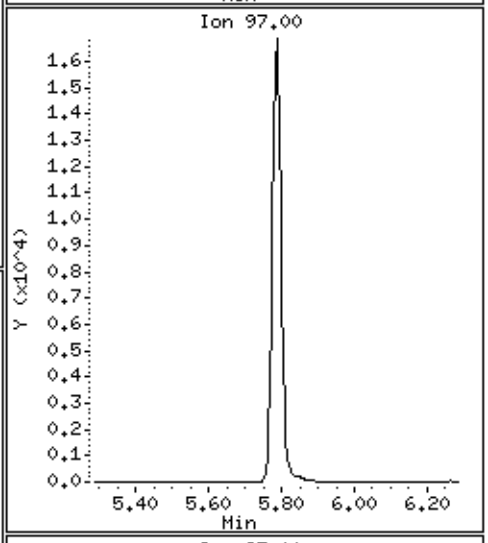
38 Trichloroethene

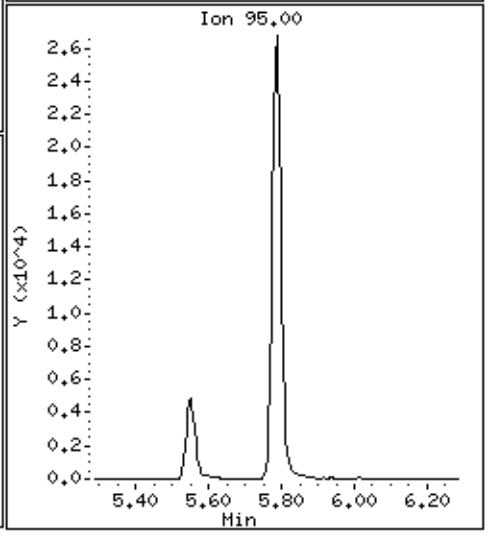
Concentration: 131.72 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053019.D

Date : 30-MAY-2024 21:07

Client ID:

Instrument: VOA9.i

Sample Info: HS24051535-03

Purge Volume: 5.0

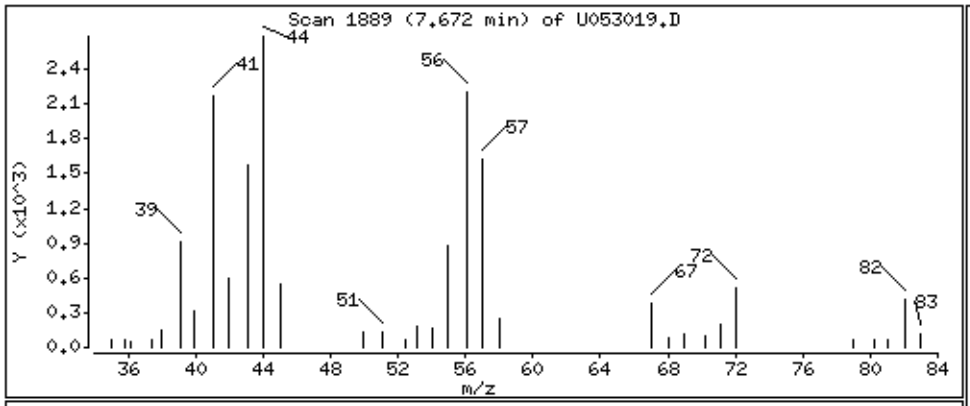
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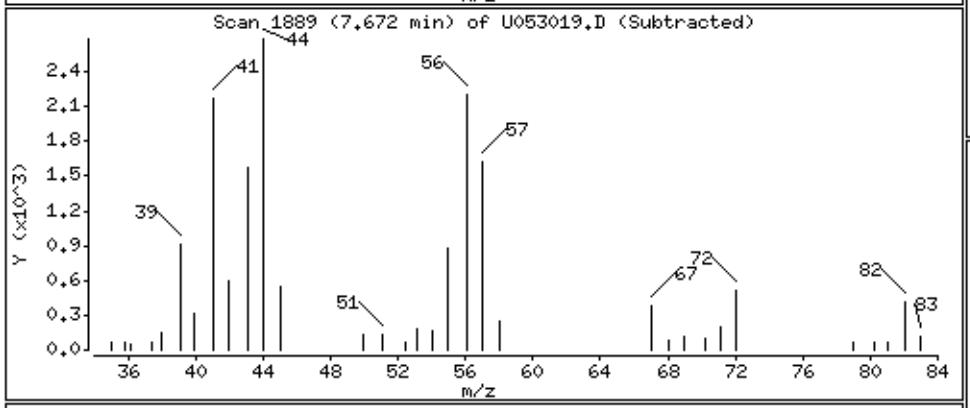
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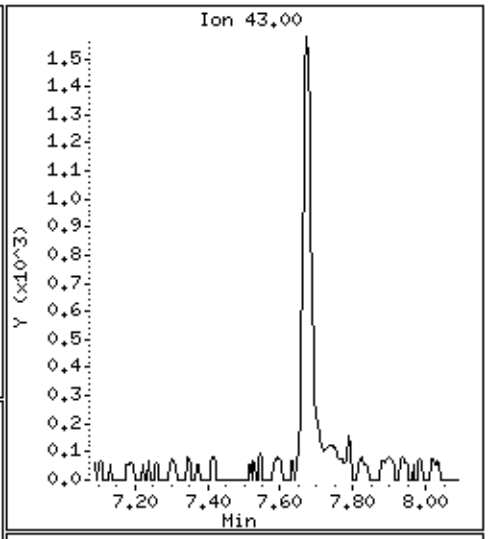
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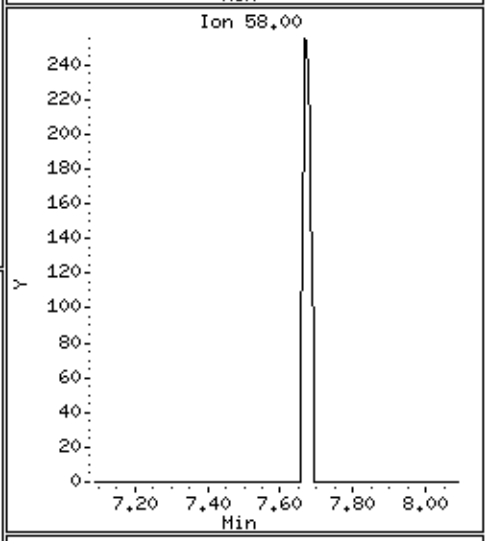
52 2-Hexanone

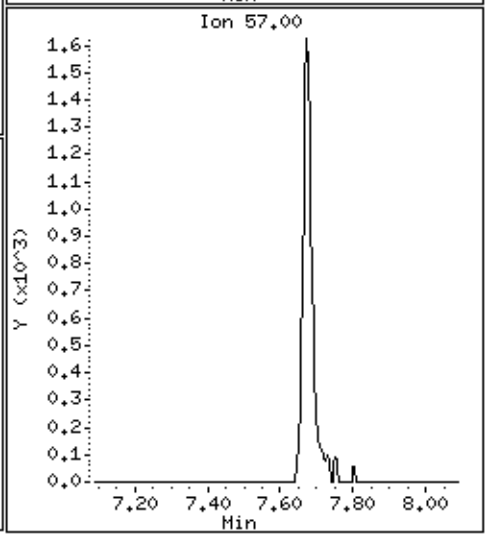
Concentration: 19.37 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053019.D

Date : 30-MAY-2024 21:07

Client ID:

Instrument: VOA9.i

Sample Info: HS24051535-03

Purge Volume: 5.0

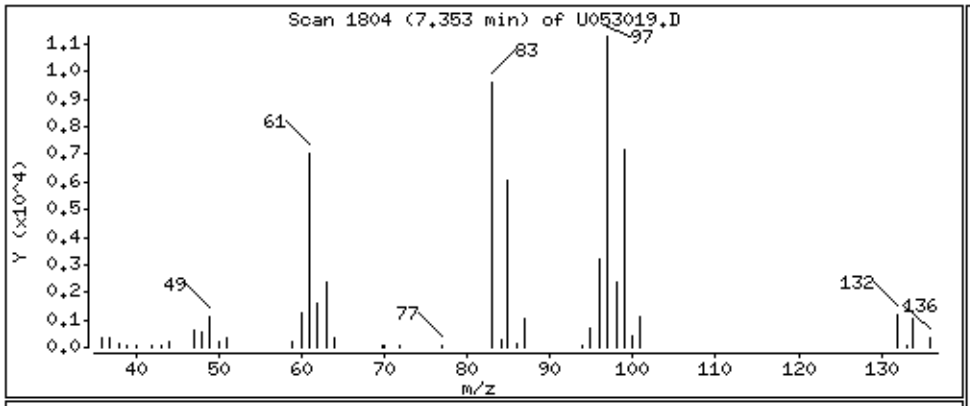
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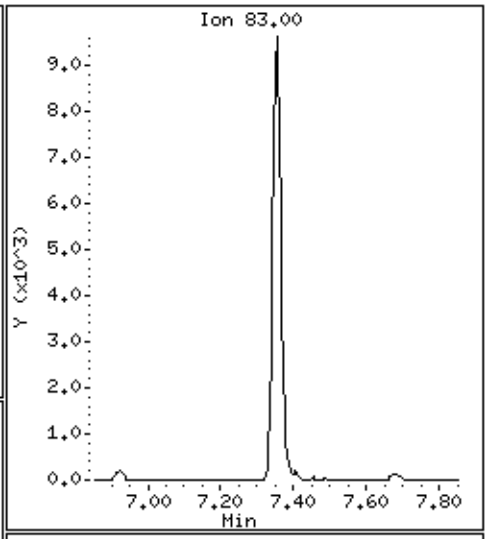
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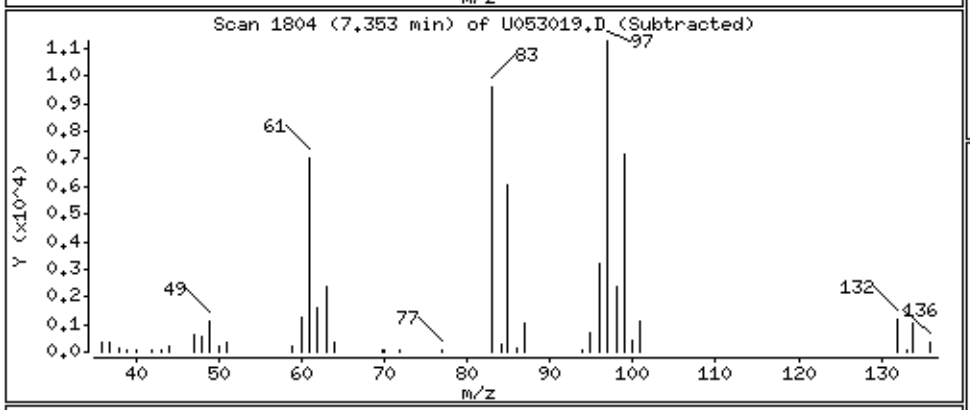
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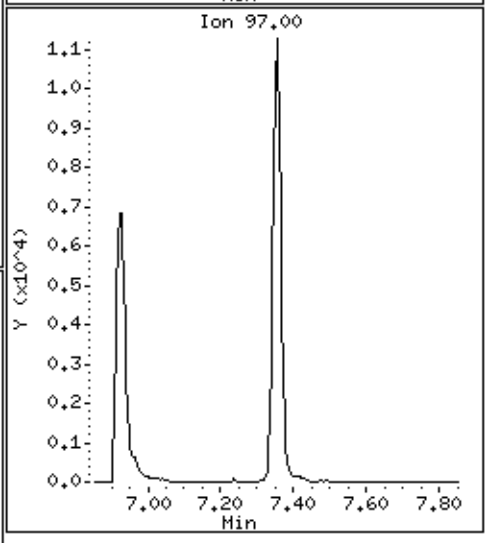
53 1,1,2-Trichloroethane

Concentration: 55.76 ug/l









Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053019.D

Date : 30-MAY-2024 21:07

Client ID:

Instrument: VOA9.i

Sample Info: HS24051535-03

Purge Volume: 5.0

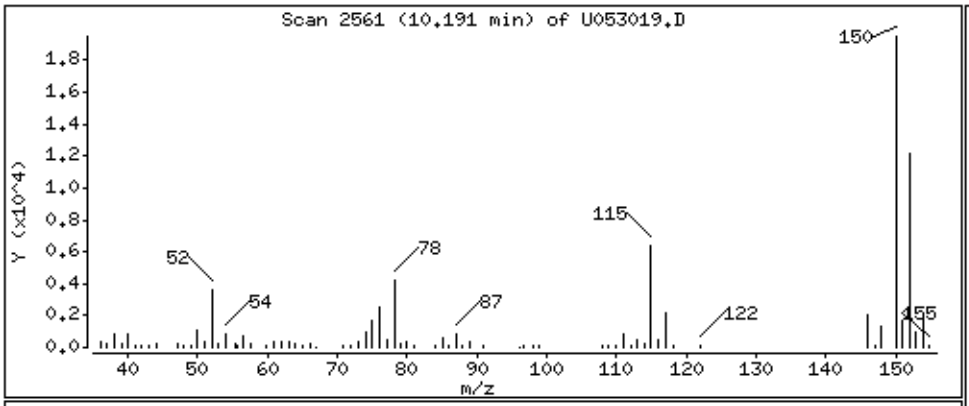
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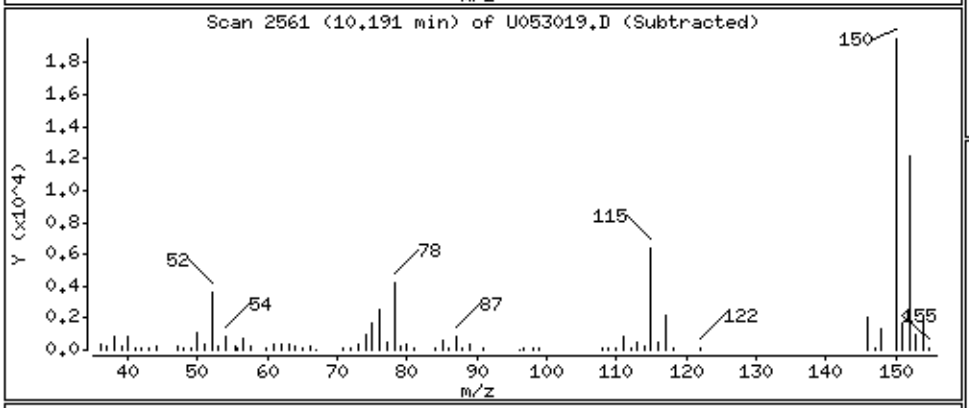
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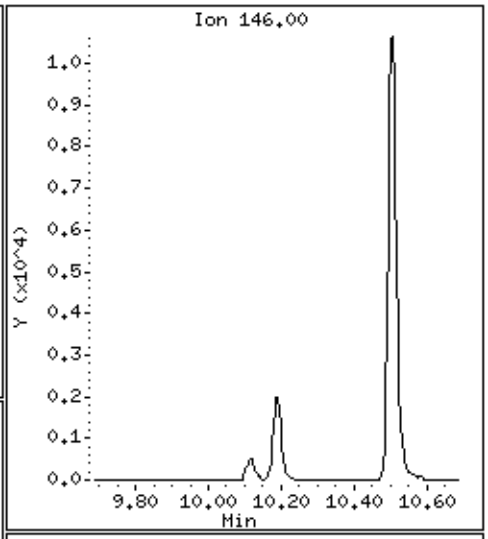
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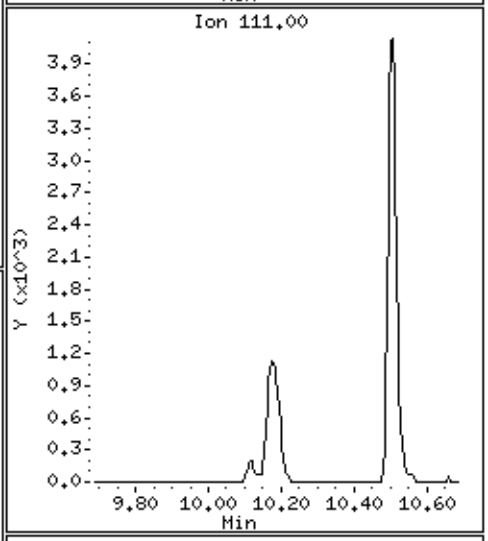
84 1,4-Dichlorobenzene

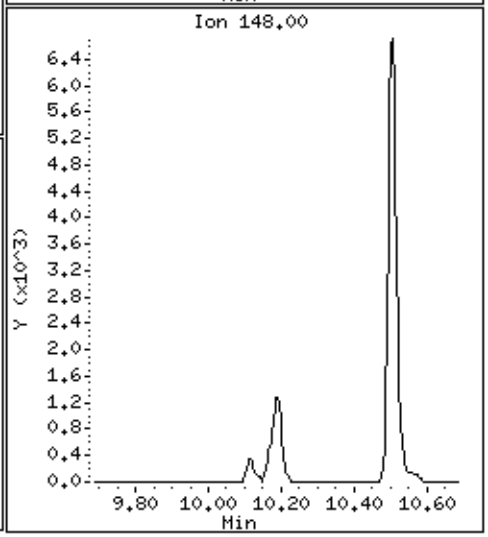
Concentration: 4.41 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053019.D

Date : 30-MAY-2024 21:07

Client ID:

Instrument: VOA9.i

Sample Info: HS24051535-03

Purge Volume: 5.0

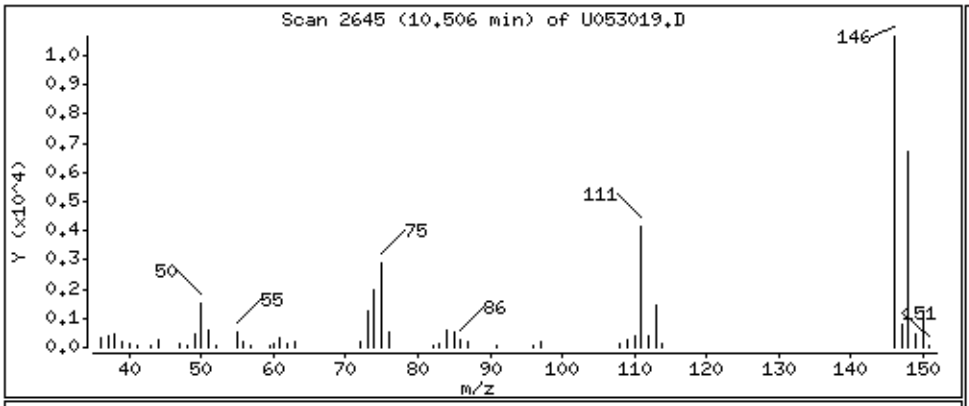
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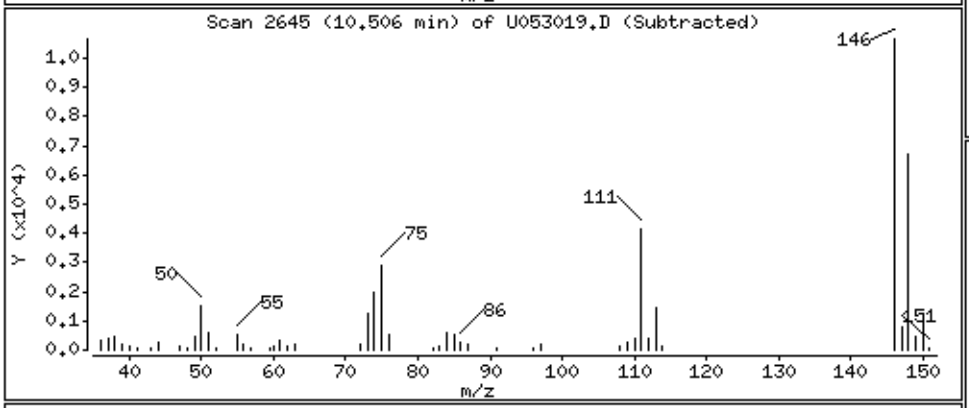
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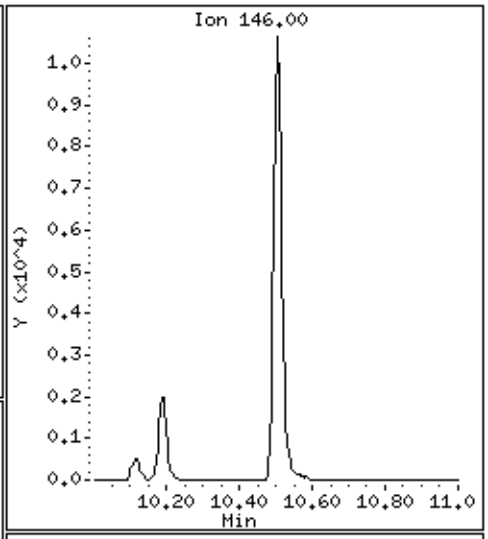
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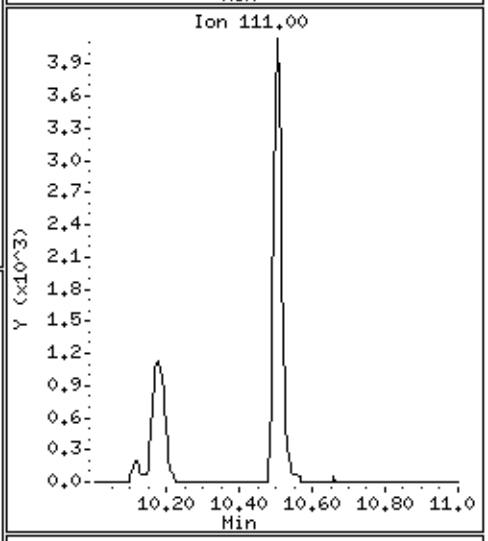
88 1,2-Dichlorobenzene

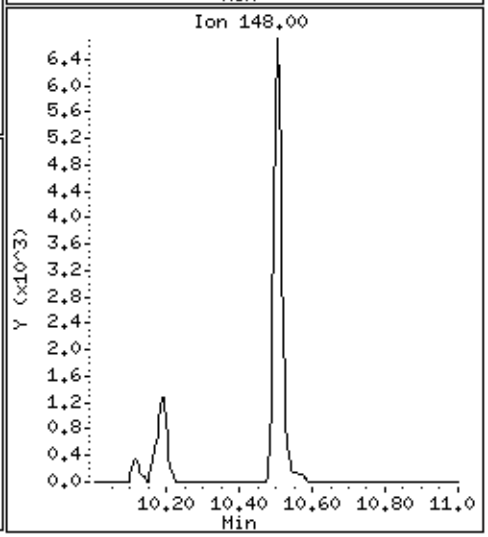
Concentration: 25.65 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053019.D

Date : 30-MAY-2024 21:07

Client ID:

Instrument: VOA9.i

Sample Info: HS24051535-03

Purge Volume: 5.0

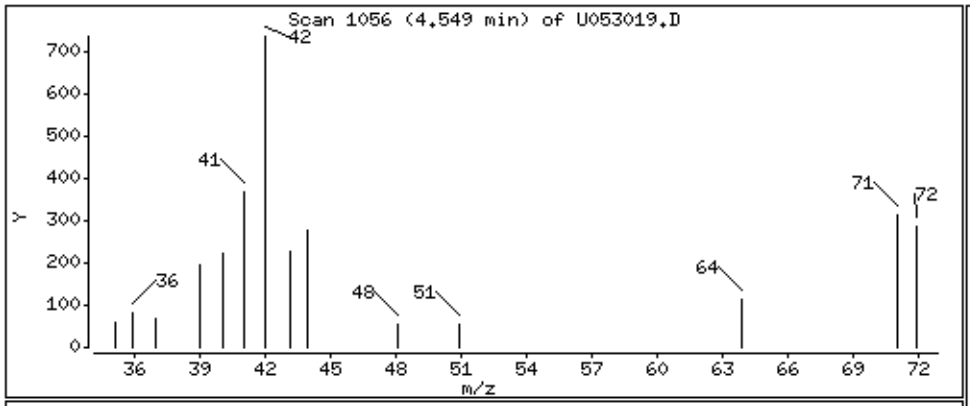
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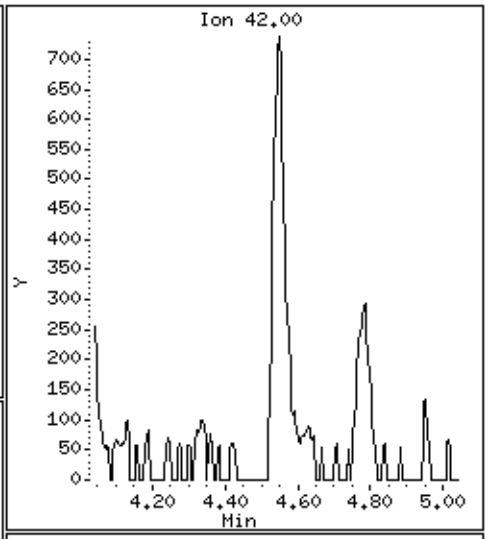
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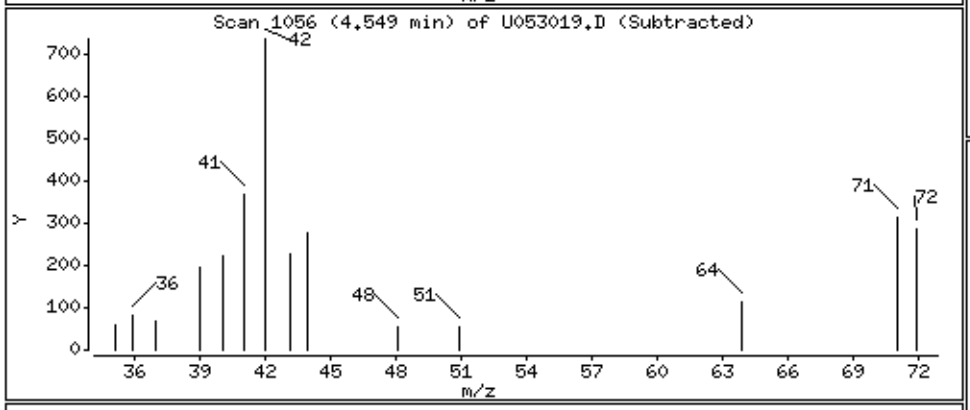
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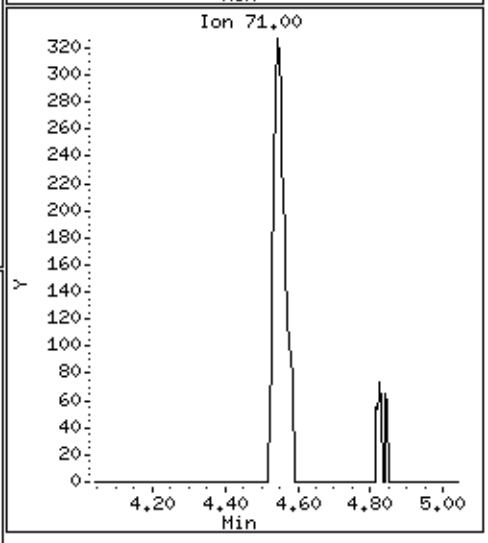
142 Tetrahydrofuran

Concentration: 20.17 ug/l









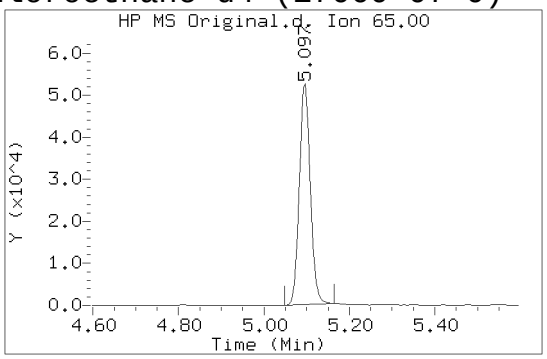
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Inj Date : 30-MAY-2024 21:07
InstruID : VOA9.i
LabSampID : HS24051535-03

1,2-Dichloroethane-d4 (17060-07-0)

Reason Code:

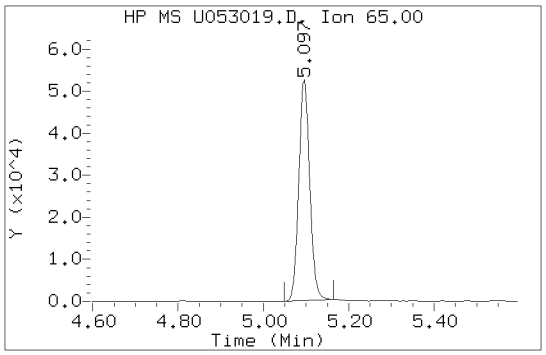
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HEIGHT
52544
24-Jun-2024
09:19
RUCHA
PATEL



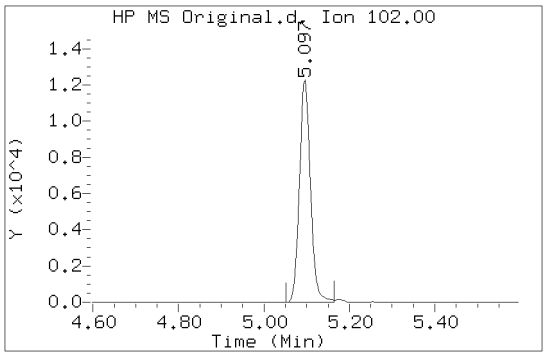
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24-Jun-2024
09:19
RUCHA
PATEL



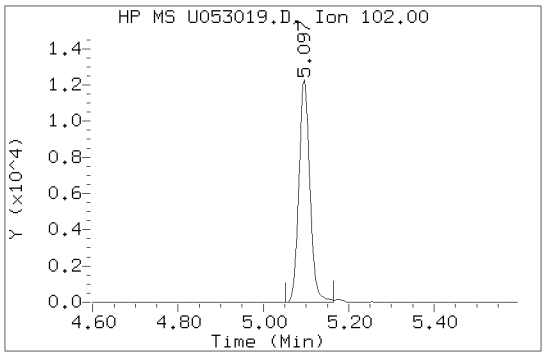
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24-Jun-2024
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AFTER

MASS
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HEIGHT
12277
24-Jun-2024
09:19
RUCHA
PATEL



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053027.D Page 1
Report Date: 24-Jun-2024 08:30

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053027.D
Lab Smp Id: HS24051490-05MS Client Smp ID: HS24051490-05MS
Inj Date : 31-MAY-2024 00:04
Operator : TS Inst ID: VOA9.i
Smp Info : HS24051490-05MS;HS24051490-05MS;3;;MS
Misc Info : V9;WATER;0;10;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240530.b\8260C.m
Meth Date : 24-Jun-2024 08:29 VOA9.i Quant Type: ISTD
Cal Date : 29-MAY-2024 11:00 Cal File: U052903.D
Als bottle: 26 QC Sample: MS
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	10.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.815	4.811	(1.000)	246570	50.0000	
2 Dichlorodifluoromethane	85	1.164	1.160	(0.242)	22668	24.6608	246.60
3 Chloromethane	50	1.295	1.291	(0.269)	86005	25.8097	258.09
4 Propionitrile	54	4.335	4.332	(0.900)	46019	170.151	1701.50(a)
5 Vinyl Chloride	62	1.378	1.374	(0.286)	41460	22.2667	222.66
6 Bromomethane	94	1.606	1.599	(0.334)	15898	18.3011	183.01
7 Chloroethane	64	1.696	1.689	(0.352)	28949	22.4000	224.00
8 Trichlorofluoromethane	101	1.891	1.887	(0.393)	50785	22.9679	229.67
9 Acrolein	56	2.262	2.259	(0.470)	2766	30.6357	306.35
10 Acetone	43	2.409	2.405	(0.500)	23883	30.8060	308.06
11 1,1-Dichloroethene	96	2.330	2.326	(0.484)	31524	19.3942	193.94
12 Isobutyl Alcohol	43	5.284	5.280	(1.097)	98857	379.138	3791.38(a)
13 Acetonitrile	39	2.671	2.667	(0.555)	33406	167.020	1670.20(a)
14 Allyl Chloride	41	2.671	2.667	(0.555)	78522	16.3801	163.80(a)
15 Iodomethane	142	2.465	2.461	(0.512)	11355	65.7733	657.73
16 Acrylonitrile	53	3.065	3.061	(0.636)	22260	32.3286	323.28
17 Methylene Chloride	84	2.791	2.787	(0.580)	36386	18.4875	184.87
18 Methyl tert-butyl ether	73	3.080	3.076	(0.640)	78218	17.0966	170.96
19 Carbon Disulfide	76	2.517	2.514	(0.523)	171025	37.5079	375.07
20 trans-1,2-Dichloroethene	96	3.057	3.053	(0.635)	32857	17.8766	178.76

21 Vinyl Acetate	43	4.339	4.335 (0.901)	37124	34.1651	341.65
22 1,1-Dichloroethane	63	3.511	3.507 (0.729)	62908	17.8167	178.16

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053027.D Page 2
Report Date: 24-Jun-2024 08:30

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	23 Chloroprene	53	3.608	3.604	(0.749)	51393	19.8502	198.50
	24 2-Butanone	43	4.264	4.260	(0.886)	35833	32.5194	325.19
	25 Methacrylonitrile	41	4.493	4.493	(0.933)	21053	19.0028	190.02(a)
	26 2,2-Dichloropropane	77	4.178	4.178	(0.868)	36286	15.6576	156.57
	27 cis-1,2-Dichloroethene	96	4.193	4.189	(0.871)	38066	16.7693	167.69
	28 Chloroform	83	4.572	4.568	(0.949)	63515	18.0162	180.16
	29 Bromochloromethane	128	4.467	4.463	(0.928)	18579	17.9590	179.58
$	30 Dibromofluoromethane	113	4.748	4.744	(0.986)	91161	58.0015	58.00
	31 1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	48797	19.7649	197.64
	32 1,1-Dichloropropene	75	4.920	4.916	(0.887)	46088	17.8948	178.94
	33 1,2-Dichloroethane	62	5.175	5.171	(0.932)	52122	20.0614	200.61
	34 Carbon Tetrachloride	117	4.909	4.909	(0.885)	38350	19.0086	190.08
$	35 1,2-Dichloroethane-d4	65	5.096	5.093	(1.058)	110373	58.1740	58.17
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	355589	50.0000	
	37 Benzene	78	5.138	5.134	(0.926)	146495	17.4908	174.90
	38 Trichloroethene	130	5.786	5.786	(1.043)	253980	123.205	1232.05
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	39279	17.4370	174.36
	40 Methyl Methacrylate	41	5.824	5.824	(1.209)	10999	13.3508	133.50(a)
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	39203	17.7470	177.47
	43 2-Nitropropane	43	6.506	6.506	(1.351)	6855	17.8206	178.20
	44 Dibromomethane	93	6.116	6.116	(1.102)	21783	16.9812	169.81
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	73750	34.5537	345.53
	46 cis-1,3-Dichloropropene	75	6.690	6.686	(1.205)	43199	15.4184	154.18
*	47 Chlorobenzene-d5	117	8.182	8.182	(1.000)	324527	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.846)	356255	57.5381	57.53
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	47620	17.3131	173.13(a)
	50 Toluene	91	6.978	6.978	(0.853)	153003	17.3685	173.68
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	34476	15.2834	152.83
	52 2-Hexanone	43	7.589	7.589	(0.928)	45856	34.0269	340.26
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	28041	18.0299	180.29
	54 1,3-Dichloropropane	76	7.496	7.496	(0.916)	59884	16.6889	166.88
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	28508	15.9164	159.16
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	30158	19.6018	196.01
	57 1,2-Dibromoethane	107	7.780	7.780	(0.951)	30426	15.7055	157.05
	58 1-Chlorohexane	55	8.193	8.193	(1.476)	31492	21.2741	212.74
	59 Chlorobenzene	112	8.208	8.208	(1.003)	96608	17.2724	172.72
	60 1,1,1,2-Tetrachloroethane	131	8.279	8.283	(1.012)	30699	17.1998	171.99
	61 Ethylbenzene	106	8.305	8.305	(1.015)	49106	19.2663	192.66
	62 m,p-Xylenes	106	8.406	8.406	(1.027)	120481	35.9553	359.55
	63 o-Xylene	106	8.744	8.744	(1.069)	59792	18.3409	183.40
	64 Styrene	104	8.759	8.759	(1.071)	99744	18.5690	185.68
	66 Bromoform	173	8.916	8.916	(1.090)	16268	14.6515	146.51
	67 Isopropylbenzene	105	9.059	9.059	(1.107)	150699	19.4552	194.55
	68 1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	45816	15.4606	154.60
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	132223	58.6026	58.60
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	178280	50.0000	
	71 1,2,3-Trichloropropane	75	9.359	9.359	(0.920)	42529	15.3044	153.04
	72 trans-1,4-Dichloro-2-butene	53	9.374	9.374	(1.146)	8404	15.1567	151.56(a)
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	174568	18.1698	181.69
	74 Bromobenzene	156	9.314	9.317	(0.916)	41085	16.7592	167.59
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	119315	18.3644	183.64
	76 2-Chlorotoluene	91	9.479	9.479	(0.932)	107385	19.1696	191.69

77	4-Chlorotoluene	91	9.572	9.572 (0.941)	122053	17.6933	176.93
78	tert-Butylbenzene	119	9.835	9.835 (0.967)	105346	19.5299	195.29

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053027.D Page 3
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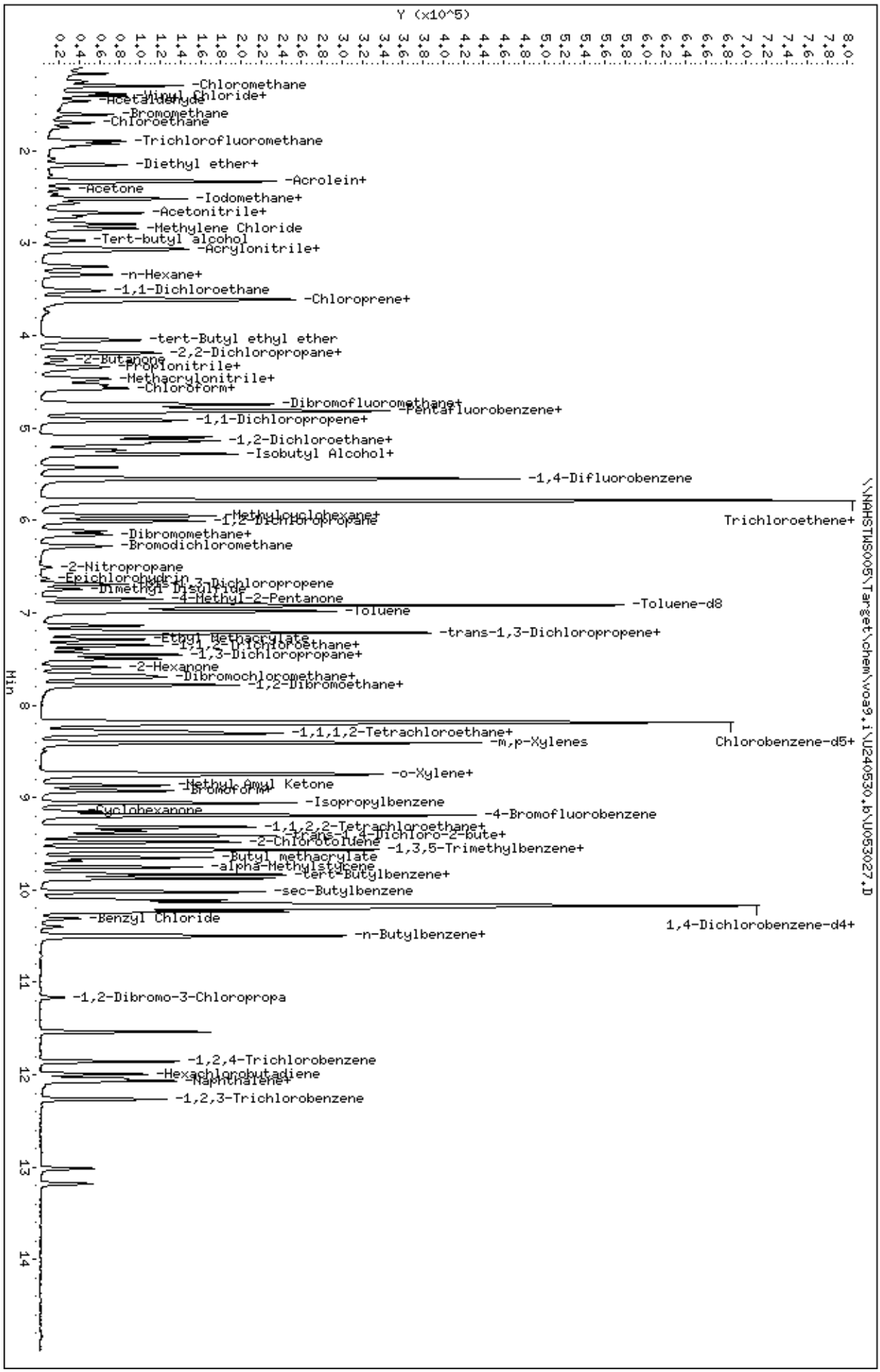
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	114995	16.1638	161.63
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	139605	19.0696	190.69
82	p-Isopropyltoluene	119	10.142	10.142	(0.997)	118895	18.6369	186.36
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	71011	17.1531	171.53
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	75501	16.4682	164.68
86	Benzyl Chloride	91	10.311	10.307	(1.260)	25444	10.9352	109.35
87	n-Butylbenzene	91	10.491	10.491	(1.032)	103527	18.5209	185.20
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	70568	16.4525	164.52
89	1,2-Dibromo-3-Chloropropane	155	11.166	11.165	(1.098)	4757	13.7001	137.00
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	42028	15.5509	155.50
91	Hexachlorobutadiene	225	11.994	11.998	(1.180)	19233	17.7366	177.36
92	Naphthalene	128	12.065	12.065	(1.187)	91804	14.1437	141.43
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	38841	15.4271	154.27
146	Methyl acetate	43	2.712	2.708	(0.563)	40677	20.9963	209.96
138	Freon TF	101	2.334	2.330	(0.485)	53846	39.6209	396.20
141	Cyclohexane	56	4.781	4.778	(0.993)	57146	24.1789	241.78
142	Tetrahydrofuran	42	4.542	4.542	(0.943)	11749	32.7115	327.11
147	Methylcyclohexane	55	5.944	5.944	(1.071)	83285	19.7004	197.00
135	1,4-Dioxane	88	6.165	6.165	(1.280)	5601	214.213	2142.13
132	n-Butanol	56	5.824	5.824	(1.209)	14519	218.584	2185.83(a)
136	n-Hexane	57	3.342	3.334	(0.694)	34355	21.6538	216.53
139	Diethyl ether	59	2.146	2.142	(0.446)	19878	15.2718	152.71
148	Tert-butyl alcohol	59	2.967	2.971	(0.616)	46707	269.849	2698.48
149	Isopropyl alcohol	45	2.566	2.566	(0.533)	35363	263.366	2633.66
152	Amyl alcohol	42	7.398	7.398	(0.904)	16922	257.554	2575.54
156	Diisopropyl ether	45	3.619	3.616	(0.752)	115697	18.3774	183.77
162	Butyl acrylate	55	8.733	8.729	(1.067)	63021	19.1376	191.37
187	n-Amyl acetate	43	8.928	8.928	(1.091)	59973	17.0197	170.19
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	179442	19.6243	196.24
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	125868	20.6915	206.91
167	Ethanol	45	2.086	2.082	(0.433)	6690	263.462	2634.61
172	tert-Butyl formate	59	5.239	5.243	(1.088)	37253	19.1267	191.26
173	3,3-Dimethyl-1-butanol	57	7.780	7.780	(0.951)	70018	309.979	3099.79
174	tert-Amyl methyl ether	73	5.284	5.284	(1.097)	94046	16.3007	163.00
175	tert-Butyl ethyl ether	59	4.047	4.047	(0.840)	95178	16.8775	168.77
176	tert-Amyl alcohol	59	5.239	5.243	(1.088)	37253	189.067	1890.67
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	198159	357.452	3574.51
140	1,3-Butadiene	54	1.404	1.400	(0.292)	18770	20.5745	205.74
182	Epichlorohydrin	57	6.630	6.630	(1.195)	6320	54.2306	542.30
M 94	1,2-Dichloroethylene (total)	96				70923	34.5295	345.29
M 95	Xylenes (total)	106				180273	55.7982	557.98
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	43849	16.7800	167.80
130	Ethyl Acetate	43	4.339	4.335	(0.901)	37124	16.3468	163.46
131	Methyl Acrylate	55	4.369	4.365	(0.907)	37186	16.5575	165.57
189	n-Butyl acetate	43	7.702	7.702	(0.941)	54268	15.9288	159.28
134	Cyclohexanone	55	9.149	9.152	(0.900)	24704	253.777	2537.76(a)
185	Isoprene	39	2.154	2.150	(0.447)	8613	22.6601	226.60
188	Isopropyl acetate	43	5.284	5.280	(0.952)	98941	16.7695	167.69
150	Allyl alcohol	57	3.342	3.334	(0.694)	34355	433.076	4330.76
194	Acetaldehyde	44	1.460	1.456	(0.303)	74017	181.873	1818.72
195	Methyl Amyl Ketone	43	8.868	8.864	(1.084)	72871	18.4327	184.32
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	15055	13.7199	137.19

133	Ethyl Acrylate	55	5.944	5.944 (1.234)	83285	19.7359	197.35
163	Butyl methacrylate	41	9.647	9.647 (0.949)	51063	24.7532	247.53

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	32476	16.2120	162.11

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).



Data File: \\NAHSTWS005\Target\chem\voa9,i\U240530,b\U053027,D
Date : 31-MAY-2024 00:04
Client ID: HS2405l490-05MS
Sample Info: HS2405l490-05MS;HS2405l490-05MS;3;;MS
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: TS
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053027.D
Inj Date : 31-MAY-2024 00:04
InstruID : VOA9.i
LabSampID : HS24051490-05MS

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053028.D Page 1
Report Date: 24-Jun-2024 08:30

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053028.D
Lab Smp Id: HS24051490-05MSD Client Smp ID: HS24051490-05MSD
Inj Date : 31-MAY-2024 00:26
Operator : TS Inst ID: VOA9.i
Smp Info : HS24051490-05MSD;HS24051490-05MSD;3;;MSD
Misc Info : V9;WATER;0;10;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240530.b\8260C.m
Meth Date : 24-Jun-2024 08:29 VOA9.i Quant Type: ISTD
Cal Date : 29-MAY-2024 11:00 Cal File: U052903.D
Als bottle: 26 QC Sample: MSD
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	10.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1	Pentafluorobenzene	168	4.812	4.811	(1.000)	245361	50.0000	
2	Dichlorodifluoromethane	85	1.160	1.160	(0.241)	21866	23.9055	239.05
3	Chloromethane	50	1.292	1.291	(0.268)	81631	24.5841	245.84
4	Propionitrile	54	4.332	4.332	(0.900)	46801	174.003	1740.02(a)
5	Vinyl Chloride	62	1.374	1.374	(0.286)	39638	21.3931	213.93
6	Bromomethane	94	1.603	1.599	(0.333)	15433	17.8037	178.03
7	Chloroethane	64	1.693	1.689	(0.352)	27868	21.6683	216.68
8	Trichlorofluoromethane	101	1.888	1.887	(0.392)	48908	22.2280	222.27
9	Acrolein	56	2.259	2.259	(0.469)	2861	31.9597	319.59
10	Acetone	43	2.401	2.405	(0.499)	25630	33.3722	333.72
11	1,1-Dichloroethene	96	2.326	2.326	(0.484)	30909	19.1095	191.09
12	Isobutyl Alcohol	43	5.280	5.280	(1.097)	96882	373.253	3732.52(a)
13	Acetonitrile	39	2.664	2.667	(0.554)	33725	169.446	1694.46(a)
14	Allyl Chloride	41	2.667	2.667	(0.554)	77535	16.2532	162.53(a)
15	Iodomethane	142	2.461	2.461	(0.512)	12322	70.7254	707.25
16	Acrylonitrile	53	3.061	3.061	(0.636)	22840	33.3629	333.62
17	Methylene Chloride	84	2.787	2.787	(0.579)	35762	18.2448	182.44
18	Methyl tert-butyl ether	73	3.076	3.076	(0.639)	77357	16.9895	169.89
19	Carbon Disulfide	76	2.514	2.514	(0.522)	164657	36.2892	362.89
20	trans-1,2-Dichloroethene	96	3.053	3.053	(0.635)	31900	17.4415	174.41

21 Vinyl Acetate	43	4.335	4.335 (0.901)	37392	34.5813	345.81
22 1,1-Dichloroethane	63	3.507	3.507 (0.729)	61993	17.6441	176.44

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053028.D Page 2
Report Date: 24-Jun-2024 08:30

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	23 Chloroprene	53	3.604	3.604	(0.749)	49323	19.1445	191.44
	24 2-Butanone	43	4.260	4.260	(0.885)	34725	31.6692	316.69
	25 Methacrylonitrile	41	4.489	4.493	(0.933)	35160	31.7464	317.46(a)
	26 2,2-Dichloropropane	77	4.174	4.178	(0.868)	34279	14.8644	148.64
	27 cis-1,2-Dichloroethene	96	4.189	4.189	(0.871)	36912	16.3411	163.41
	28 Chloroform	83	4.568	4.568	(0.949)	61654	17.5745	175.74
	29 Bromochloromethane	128	4.463	4.463	(0.928)	17902	17.3985	173.98
$	30 Dibromofluoromethane	113	4.744	4.744	(0.986)	90516	57.8779	57.87
	31 1,1,1-Trichloroethane	97	4.737	4.740	(0.984)	47271	19.2412	192.41
	32 1,1-Dichloropropene	75	4.917	4.916	(0.886)	46926	18.0278	180.27
	33 1,2-Dichloroethane	62	5.171	5.171	(0.932)	50458	19.2412	192.41
	34 Carbon Tetrachloride	117	4.905	4.909	(0.884)	37338	18.3116	183.11
$	35 1,2-Dichloroethane-d4	65	5.093	5.093	(1.058)	109909	58.2146	58.21
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	359383	50.0000	
	37 Benzene	78	5.134	5.134	(0.925)	141712	16.7412	167.41
	38 Trichloroethene	130	5.782	5.786	(1.042)	244234	117.227	1172.26
	39 Bromodichloromethane	83	6.274	6.277	(1.130)	38491	16.9068	169.06
	40 Methyl Methacrylate	41	5.820	5.824	(1.210)	11147	13.5889	135.88(a)
	42 1,2-Dichloropropane	63	6.004	6.007	(1.082)	37756	16.9115	169.11
	43 2-Nitropropane	43	6.506	6.506	(1.352)	6364	16.7615	167.61
	44 Dibromomethane	93	6.116	6.116	(1.102)	22155	17.0888	170.88
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	73633	34.3183	343.18
	46 cis-1,3-Dichloropropene	75	6.690	6.686	(1.205)	42844	15.1484	151.48
*	47 Chlorobenzene-d5	117	8.182	8.182	(1.000)	326281	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.846)	360796	57.9568	57.95
	49 Ethyl Methacrylate	69	7.286	7.289	(1.313)	47943	17.2465	172.46(a)
	50 Toluene	91	6.978	6.978	(0.853)	147205	16.6205	166.20
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	34435	15.1190	151.18
	52 2-Hexanone	43	7.589	7.589	(0.928)	45724	33.7631	337.63
	53 1,1,2-Trichloroethane	83	7.349	7.353	(0.898)	27920	17.8527	178.52
	54 1,3-Dichloropropane	76	7.496	7.496	(0.916)	59825	16.5829	165.82
	55 Dibromochloromethane	129	7.687	7.690	(0.940)	27853	15.4962	154.96
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	29152	18.8460	188.46
	57 1,2-Dibromoethane	107	7.780	7.780	(0.951)	30450	15.6334	156.33
	58 1-Chlorohexane	55	8.193	8.193	(1.476)	30792	20.5586	205.58
	59 Chlorobenzene	112	8.208	8.208	(1.003)	94491	16.8031	168.03
	60 1,1,1,2-Tetrachloroethane	131	8.279	8.283	(1.012)	30034	16.7368	167.36
	61 Ethylbenzene	106	8.305	8.305	(1.015)	46950	18.3280	183.28
	62 m,p-Xylenes	106	8.407	8.406	(1.027)	119408	35.4334	354.33
	63 o-Xylene	106	8.744	8.744	(1.069)	58977	18.0089	180.08
	64 Styrene	104	8.759	8.759	(1.071)	97906	18.1288	181.28
	66 Bromoform	173	8.916	8.916	(1.090)	16345	14.6429	146.42
	67 Isopropylbenzene	105	9.059	9.059	(1.107)	146059	18.7548	187.54
	68 1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	45320	15.3085	153.08
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	134449	59.2700	59.27
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	178102	50.0000	
	71 1,2,3-Trichloropropane	75	9.359	9.359	(0.920)	43049	15.5070	155.06
	72 trans-1,4-Dichloro-2-butene	53	9.374	9.374	(1.146)	8577	15.3856	153.85(a)
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	170429	17.7568	177.56
	74 Bromobenzene	156	9.314	9.317	(0.916)	39870	16.2799	162.79
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	117160	18.0485	180.48
	76 2-Chlorotoluene	91	9.479	9.479	(0.932)	105798	18.9002	189.00

77	4-Chlorotoluene	91	9.572	9.572 (0.941)	119387	17.3241	173.24
78	tert-Butylbenzene	119	9.835	9.835 (0.967)	105723	19.6194	196.19

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053028.D Page 3
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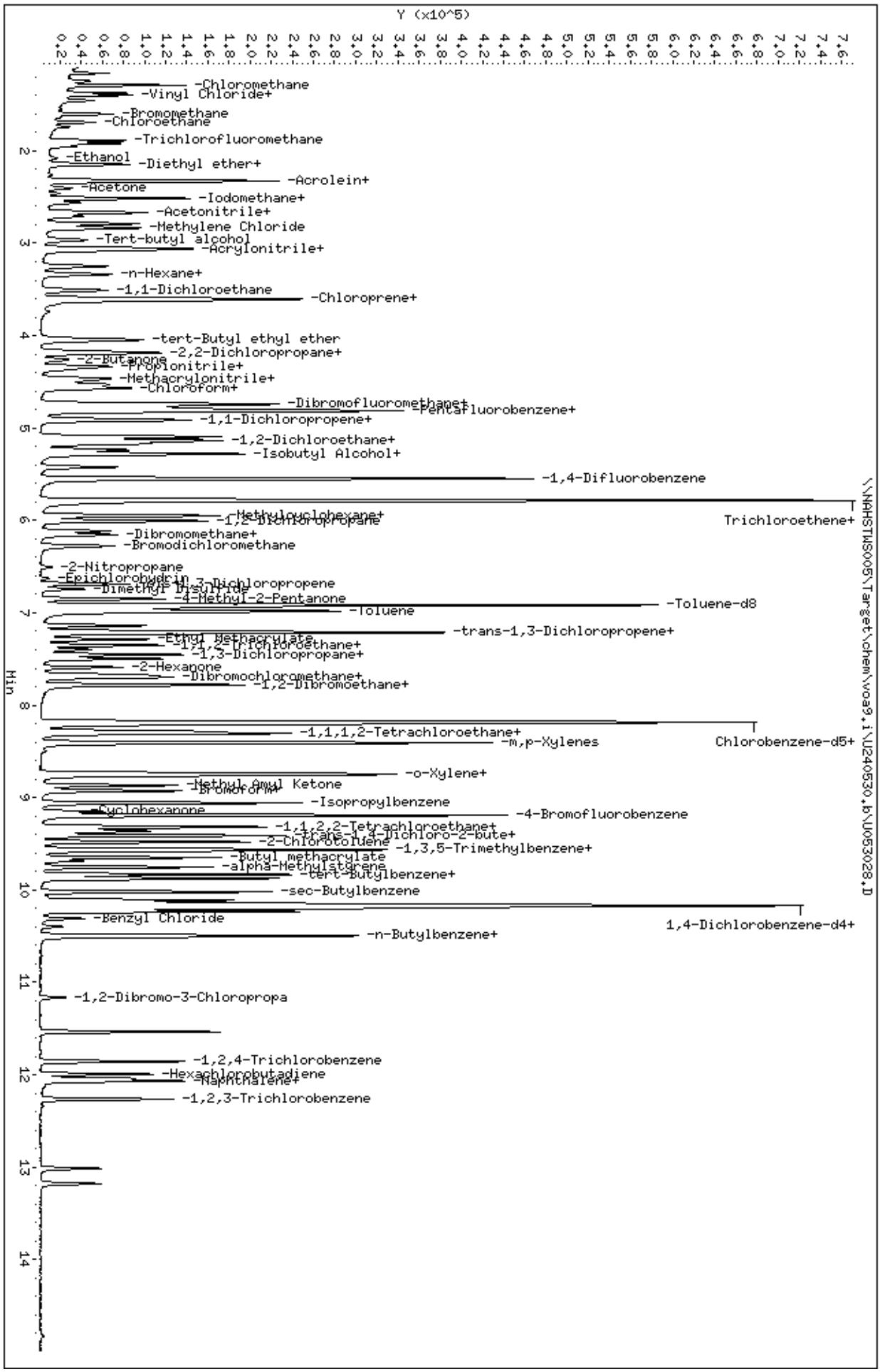
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	114344	16.0802	160.80
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	136672	18.6876	186.87
82	p-Isopropyltoluene	119	10.142	10.142	(0.997)	117271	18.4007	184.00
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	70165	16.9657	169.65
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	74261	16.2140	162.13
86	Benzyl Chloride	91	10.307	10.307	(1.260)	26319	11.2141	112.14
87	n-Butylbenzene	91	10.491	10.491	(1.032)	101144	18.1223	181.22
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	69911	16.3156	163.15
89	1,2-Dibromo-3-Chloropropane	155	11.166	11.165	(1.098)	4376	12.6918	126.91
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	41365	15.3208	153.20
91	Hexachlorobutadiene	225	11.994	11.998	(1.180)	18980	17.5208	175.20
92	Naphthalene	128	12.065	12.065	(1.187)	94174	14.5255	145.25
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	39242	15.6019	156.01
146	Methyl acetate	43	2.709	2.708	(0.563)	38420	19.9421	199.42
138	Freon TF	101	2.330	2.330	(0.484)	51890	38.4141	384.14
141	Cyclohexane	56	4.778	4.778	(0.993)	55318	23.4975	234.97
142	Tetrahydrofuran	42	4.534	4.542	(0.942)	12027	33.7005	337.00
147	Methylcyclohexane	55	5.944	5.944	(1.071)	82080	19.2309	192.30
135	1,4-Dioxane	88	6.165	6.165	(1.281)	5725	220.457	2204.56
132	n-Butanol	56	5.820	5.824	(1.210)	15362	232.415	2324.14(a)
136	n-Hexane	57	3.338	3.334	(0.694)	32603	20.6923	206.92
139	Diethyl ether	59	2.139	2.142	(0.445)	19750	15.2474	152.47
148	Tert-butyl alcohol	59	2.963	2.971	(0.616)	45900	266.276	2662.75
149	Isopropyl alcohol	45	2.562	2.566	(0.533)	35920	269.103	2691.03
152	Amyl alcohol	42	7.398	7.398	(0.904)	16866	255.505	2555.05
156	Diisopropyl ether	45	3.616	3.616	(0.751)	114947	18.3482	183.48
162	Butyl acrylate	55	8.729	8.729	(1.067)	63750	19.2478	192.47
187	n-Amyl acetate	43	8.928	8.928	(1.091)	60646	17.1182	171.18
164	Dicyclopentadiene	66	10.195	10.198	(1.003)	173489	18.9922	189.92
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	124470	20.4896	204.89
167	Ethanol	45	2.082	2.082	(0.433)	6980	277.023	2770.23
172	tert-Butyl formate	59	5.235	5.243	(1.088)	46296	23.8868	238.86
173	3,3-Dimethyl-1-butanol	57	7.777	7.780	(0.951)	69838	307.520	3075.20
174	tert-Amyl methyl ether	73	5.280	5.284	(1.097)	96635	16.8320	168.31
175	tert-Butyl ethyl ether	59	4.043	4.047	(0.840)	94563	16.8510	168.51
176	tert-Amyl alcohol	59	5.235	5.243	(1.088)	46296	236.120	2361.20
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	197689	353.069	3530.68
140	1,3-Butadiene	54	1.396	1.400	(0.290)	18214	20.0634	200.63
182	Epichlorohydrin	57	6.630	6.630	(1.195)	6629	56.2007	562.00
M 94	1,2-Dichloroethylene (total)	96				68812	33.6668	336.66
M 95	Xylenes (total)	106				178385	54.6152	546.15
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	45465	17.3876	173.87
130	Ethyl Acetate	43	4.335	4.335	(0.901)	37392	16.5460	165.45
131	Methyl Acrylate	55	4.365	4.365	(0.907)	37223	16.6559	166.55
189	n-Butyl acetate	43	7.702	7.702	(0.941)	55914	16.3237	163.23
134	Cyclohexanone	55	9.153	9.152	(0.900)	24753	254.500	2545.00(a)
185	Isoprene	39	2.150	2.150	(0.447)	8366	22.1413	221.41
188	Isopropyl acetate	43	5.280	5.280	(0.951)	95234	15.9708	159.70
150	Allyl alcohol	57	3.338	3.334	(0.694)	32603	413.845	4138.45
194	Acetaldehyde	44	1.453	1.456	(0.302)	63965	158.561	1585.61
195	Methyl Amyl Ketone	43	8.864	8.864	(1.083)	73664	18.5331	185.33
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	14840	13.5509	135.50

133 Ethyl Acrylate	55	5.944	5.944 (1.235)	82080	19.5533	195.53	
163 Butyl methacrylate	41	9.647	9.647 (0.949)	50891	24.6945	246.94	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	33257	16.5776	165.77

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).



Data File: \\NAHSTWS005\Target\chem\voa9,i\U240530,b\U053028,D
Date : 31-MAY-2024 00:26
Client ID: HS24051490-05MSD
Sample Info: HS24051490-05MSD;HS24051490-05MSD;3;;MSD
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: TS
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053028.D
Inj Date : 31-MAY-2024 00:26
InstruID : VOA9.i
LabSampID : HS24051490-05MSD

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053029.D Page 1
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ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053029.D
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 31-MAY-2024 00:47
Operator : TS Inst ID: VOA9.i
Smp Info : CCV;CCV;2;;CCV-END
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240530.b\8260C.m
Meth Date : 24-Jun-2024 08:30 VOA9.i Quant Type: ISTD
Cal Date : 29-MAY-2024 11:00 Cal File: U052903.D
Als bottle: 27 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.815	4.815	(1.000)	244283	50.0000	
2	Dichlorodifluoromethane	85	1.172	1.172	(0.243)	48661	50.0000	53.43
3	Chloromethane	50	1.303	1.303	(0.271)	181626	50.0000	55.84
4	Propionitrile	54	4.339	4.339	(0.901)	127603	500.000	476.80
5	Vinyl Chloride	62	1.385	1.385	(0.288)	91452	50.0000	49.57
6	Bromomethane	94	1.610	1.610	(0.334)	33686	50.0000	41.45
7	Chloroethane	64	1.700	1.700	(0.353)	65568	50.0000	50.78
8	Trichlorofluoromethane	101	1.899	1.899	(0.394)	118744	50.0000	54.20
9	Acrolein	56	2.270	2.270	(0.471)	7840	100.000	91.38
10	Acetone	43	2.412	2.412	(0.501)	58907	100.000	79.73
11	1,1-Dichloroethene	96	2.337	2.337	(0.485)	75058	50.0000	46.60
12	Isobutyl Alcohol	43	5.284	5.284	(1.097)	254430	1000.00	977.54
13	Acetonitrile	39	2.675	2.675	(0.556)	101269	500.000	511.05
14	Allyl Chloride	41	2.675	2.675	(0.556)	239319	50.0000	49.95
15	Iodomethane	142	2.472	2.472	(0.513)	36413	100.000	121.46
16	Acrylonitrile	53	3.068	3.068	(0.637)	64041	100.000	94.47
17	Methylene Chloride	84	2.799	2.799	(0.581)	93268	50.0000	49.41
18	Methyl tert-butyl ether	73	3.083	3.083	(0.640)	219895	50.0000	48.60
19	Carbon Disulfide	76	2.525	2.525	(0.524)	416782	100.000	92.26
20	trans-1,2-Dichloroethene	96	3.061	3.061	(0.636)	80466	50.0000	44.18

21 Vinyl Acetate	43	4.343	4.343 (0.902)	96022	100.000	89.19
22 1,1-Dichloroethane	63	3.515	3.515 (0.730)	158649	50.0000	45.35

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053029.D Page 2
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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	3.612	3.612	(0.750)	130756	50.0000	50.97
	24 2-Butanone	43	4.264	4.264	(0.886)	85651	100.000	78.45
	25 Methacrylonitrile	41	4.497	4.497	(0.934)	54624	50.0000	48.97(a)
	26 2,2-Dichloropropane	77	4.186	4.186	(0.869)	94721	50.0000	41.25
	27 cis-1,2-Dichloroethene	96	4.197	4.197	(0.872)	96375	50.0000	42.85
	28 Chloroform	83	4.575	4.575	(0.950)	159952	50.0000	45.79
	29 Bromochloromethane	128	4.470	4.470	(0.928)	48160	50.0000	46.54
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	91124	50.0000	58.50
	31 1,1,1-Trichloroethane	97	4.744	4.744	(0.985)	126003	50.0000	51.51
	32 1,1-Dichloropropene	75	4.924	4.924	(0.887)	120260	50.0000	47.10
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	128406	50.0000	48.96
	34 Carbon Tetrachloride	117	4.913	4.913	(0.885)	99817	50.0000	49.90
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	108261	50.0000	57.59
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	352497	50.0000	
	37 Benzene	78	5.138	5.138	(0.925)	367326	50.0000	44.24
	38 Trichloroethene	130	5.786	5.786	(1.042)	92802	50.0000	45.41
	39 Bromodichloromethane	83	6.277	6.277	(1.130)	105263	50.0000	47.13
	40 Methyl Methacrylate	41	5.824	5.824	(1.209)	33217	50.0000	39.23
	41 2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	57816	100.000	79.99
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	100546	50.0000	45.91
	43 2-Nitropropane	43	6.506	6.506	(1.351)	19232	50.0000	45.85
	44 Dibromomethane	93	6.120	6.120	(1.102)	56887	50.0000	44.73
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	190765	100.000	87.71
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.204)	134060	50.0000	45.51
*	47 Chlorobenzene-d5	117	8.182	8.182	(1.000)	323766	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.846)	354598	50.0000	57.40
	49 Ethyl Methacrylate	69	7.289	7.289	(1.312)	116949	50.0000	42.89
	50 Toluene	91	6.978	6.978	(0.853)	373940	50.0000	42.54
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	108124	50.0000	44.88
	52 2-Hexanone	43	7.589	7.589	(0.928)	118100	100.000	83.82
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	72327	50.0000	46.84
	54 1,3-Dichloropropane	76	7.496	7.496	(0.916)	155306	50.0000	43.38
	55 Dibromochloromethane	129	7.691	7.691	(0.940)	84483	50.0000	44.72
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	72867	50.0000	47.47
	57 1,2-Dibromoethane	107	7.781	7.781	(0.951)	82399	50.0000	42.63
	58 1-Chlorohexane	55	8.193	8.193	(1.475)	71784	50.0000	49.05
	59 Chlorobenzene	112	8.208	8.208	(1.003)	241077	50.0000	43.20
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	82811	50.0000	46.50
	61 Ethylbenzene	106	8.305	8.305	(1.015)	121326	50.0000	47.07
	62 m,p-Xylenes	106	8.407	8.407	(1.027)	312489	100.000	93.86
	63 o-Xylene	106	8.744	8.744	(1.069)	152601	50.0000	45.66
	64 Styrene	104	8.759	8.759	(1.071)	252476	50.0000	47.11
	66 Bromoform	173	8.916	8.916	(1.090)	48735	50.0000	40.12
	67 Isopropylbenzene	105	9.059	9.059	(1.107)	375645	50.0000	48.60
	68 1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	118687	50.0000	40.92
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	131537	50.0000	58.43
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	174457	50.0000	
	71 1,2,3-Trichloropropane	75	9.359	9.359	(0.920)	114288	50.0000	42.02
	72 trans-1,4-Dichloro-2-butene	53	9.374	9.374	(1.146)	22625	50.0000	40.90
	73 n-Propylbenzene	91	9.407	9.407	(0.925)	442749	50.0000	47.09
	74 Bromobenzene	156	9.314	9.314	(0.916)	105107	50.0000	43.81
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	306131	50.0000	47.85

76	2-Chlorotoluene	91	9.479	9.479 (0.932)	268176	50.0000	48.99
77	4-Chlorotoluene	91	9.572	9.572 (0.941)	308984	50.0000	45.77

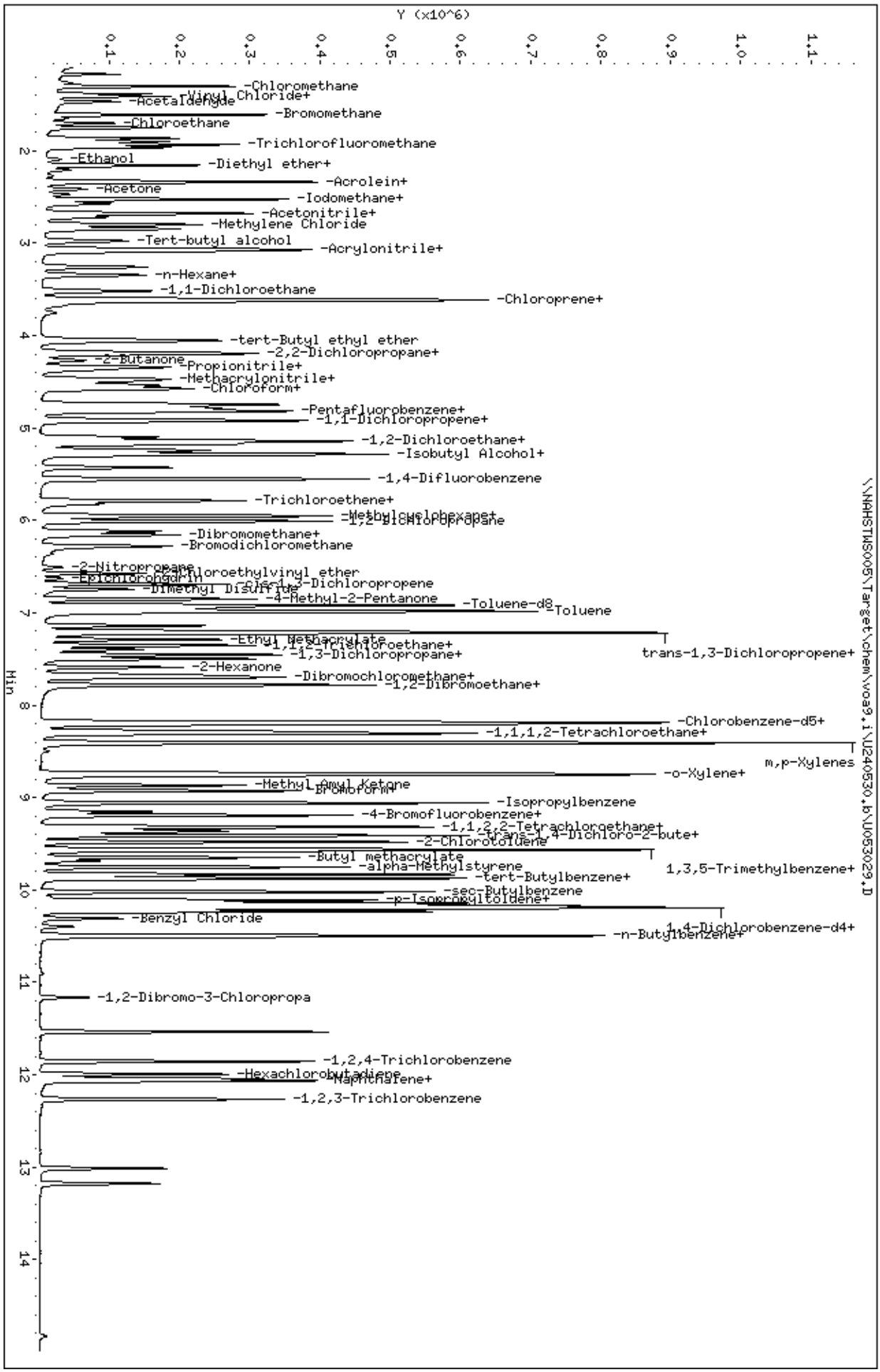
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	264337	50.0000	50.07	
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	301831	50.0000	45.83	
81	sec-Butylbenzene	105	10.019	10.019	(0.985)	358320	50.0000	50.01	
82	p-Isopropyltoluene	119	10.142	10.142	(0.997)	311370	50.0000	49.87	
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	182608	50.0000	45.07	
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	193347	50.0000	43.09	
86	Benzyl Chloride	91	10.307	10.307	(1.260)	76102	50.0000	29.89	
87	n-Butylbenzene	91	10.491	10.491	(1.032)	264709	50.0000	47.12	
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	182587	50.0000	43.50	
89	1,2-Dibromo-3-Chloropropane	155	11.166	11.166	(1.098)	13626	50.0000	37.67	
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	114919	50.0000	43.45	
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	48225	50.0000	45.44	
92	Naphthalene	128	12.065	12.065	(1.187)	271149	50.0000	42.37	
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	105904	50.0000	42.98	
146	Methyl acetate	43	2.716	2.716	(0.564)	93579	50.0000	48.41	
138	Freon TF	101	2.337	2.337	(0.485)	66371	50.0000	48.88	
141	Cyclohexane	56	4.785	4.785	(0.994)	115765	50.0000	49.80	
142	Tetrahydrofuran	42	4.542	4.542	(0.943)	33584	100.000	96.08	
147	Methylcyclohexane	55	5.947	5.947	(1.071)	210174	50.0000	48.25	
135	1,4-Dioxane	88	6.165	6.165	(1.280)	18612	1000.00	745.66	
132	n-Butanol	56	5.824	5.824	(1.209)	44722	1000.00	679.59	
136	n-Hexane	57	3.346	3.346	(0.695)	74459	50.0000	45.87	
139	Diethyl ether	59	2.150	2.150	(0.447)	64715	50.0000	50.45	
148	Tert-butyl alcohol	59	2.975	2.975	(0.618)	138525	1000.00	825.86	
149	Isopropyl alcohol	45	2.570	2.570	(0.534)	106854	1000.00	813.49	
152	Amyl alcohol	42	7.398	7.398	(0.904)	53596	1000.00	759.94	
156	Diisopropyl ether	45	3.623	3.623	(0.752)	293668	50.0000	47.08	
162	Butyl acrylate	55	8.729	8.729	(1.067)	153221	50.0000	44.28	
187	n-Amyl acetate	43	8.928	8.928	(1.091)	151751	50.0000	43.16	
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	429823	50.0000	48.03	
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	288695	50.0000	47.50	
167	Ethanol	45	2.094	2.094	(0.435)	21213	1000.00	859.18	
172	tert-Butyl formate	59	5.243	5.243	(1.089)	137120	100.000	71.06	
173	3,3-Dimethyl-1-butanol	57	7.781	7.781	(0.951)	157469	1000.00	698.77	
174	tert-Amyl methyl ether	73	5.288	5.288	(1.098)	249186	50.0000	43.59	
175	tert-Butyl ethyl ether	59	4.051	4.051	(0.841)	251017	50.0000	44.92	
176	tert-Amyl alcohol	59	5.243	5.243	(1.089)	137120	1000.00	702.43	
151	4-Methyl-2-pentanol	45	7.215	7.215	(1.299)	470105	1000.00	820.10	
140	1,3-Butadiene	54	1.408	1.408	(0.292)	45764	50.0000	50.63	
182	Epichlorohydrin	57	6.630	6.630	(1.194)	21135	200.000	173.00	
M 94	1,2-Dichloroethylene (total)	96				176841	100.000		(a)
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	122443	50.0000	45.94	
130	Ethyl Acetate	43	4.343	4.343	(0.902)	96022	50.0000	42.67	
131	Methyl Acrylate	55	4.369	4.369	(0.907)	102919	50.0000	45.75	
189	n-Butyl acetate	43	7.702	7.702	(0.941)	143493	50.0000	42.21	
134	Cyclohexanone	55	9.149	9.149	(0.900)	61414	1000.00	625.16	
185	Isoprene	39	2.161	2.161	(0.449)	21104	50.0000	53.99	
188	Isopropyl acetate	43	5.284	5.284	(0.951)	251788	50.0000	43.04	
150	Allyl alcohol	57	3.346	3.346	(0.695)	74459	1000.00	917.53	
194	Acetaldehyde	44	1.468	1.468	(0.305)	134572	200.000	324.84	
195	Methyl Amyl Ketone	43	8.864	8.864	(1.083)	161171	50.0000	40.86	
200	Dimethyl Disulfide	94	6.746	6.746	(0.825)	49689	50.0000	33.11	

133 Ethyl Acrylate	55	5.947	5.947 (1.235)	210174	50.0000	48.47
163 Butyl methacrylate	41	9.647	9.647 (0.949)	96632	50.0000	47.86

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
159 Propylene oxide	43	2.206	2.206	(0.458)	15679	100.000	111.72
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	105100	50.0000	48.41

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053029.D
Date : 31-MAY-2024 00:47
Client ID: CCV
Sample Info: CCV;CCV;2;;CCV-END
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240530.b\U053029.D
Inj Date : 31-MAY-2024 00:47
InstruID : VOA9.i
LabSampID : CCV

NO MANUAL INTEGRATIONS

right solutions.
right partner.

RawData

<textMethods>

Workorder

HS24051535

Client

Bhate Environmental Associates, Inc.

Project

LHAAP-58

06/24/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Data File: \\nahstws005\Target\chem\voa9.i\U240605.b\W060501.D Page 1
Report Date: 05-Jun-2024 19:01

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240605.b\W060501.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 05-JUN-2024 18:36
Operator : TS Inst ID: VOA9.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240605.b\8260C.m
Meth Date : 05-Jun-2024 18:34 Firat.Tast Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 3 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	
* 1 Pentafluorobenzene	168	4.811	4.811	(1.000)	210126	50.0000		
$ 30 Dibromofluoromethane	113	4.744	4.744	(0.986)	77529			(R)
$ 35 1,2-Dichloroethane-d4	65	5.093	5.092	(1.058)	99069			(R)
* 36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	311736	50.0000		
* 47 Chlorobenzene-d5	117	8.182	8.181	(1.000)	278048	50.0000		
$ 48 Toluene-d8	98	6.918	6.918	(0.846)	301653			(R)
$ 69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	105134			(R)
* 70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	139374	50.0000		

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060502.D Page 1
Report Date: 21-Jun-2024 17:11

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060502.D
Lab Smp Id: VSTD00.25 Client Smp ID: VSTD00.25
Inj Date : 05-JUN-2024 18:58
Operator : TS Inst ID: VOA9.i
Smp Info : VSTD00.25;VSTD00.25;1;1
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240605.b\8260C.m
Meth Date : 21-Jun-2024 17:11 VOA9.i Quant Type: ISTD
Cal Date : 05-JUN-2024 19:20 Cal File: W060503.D
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

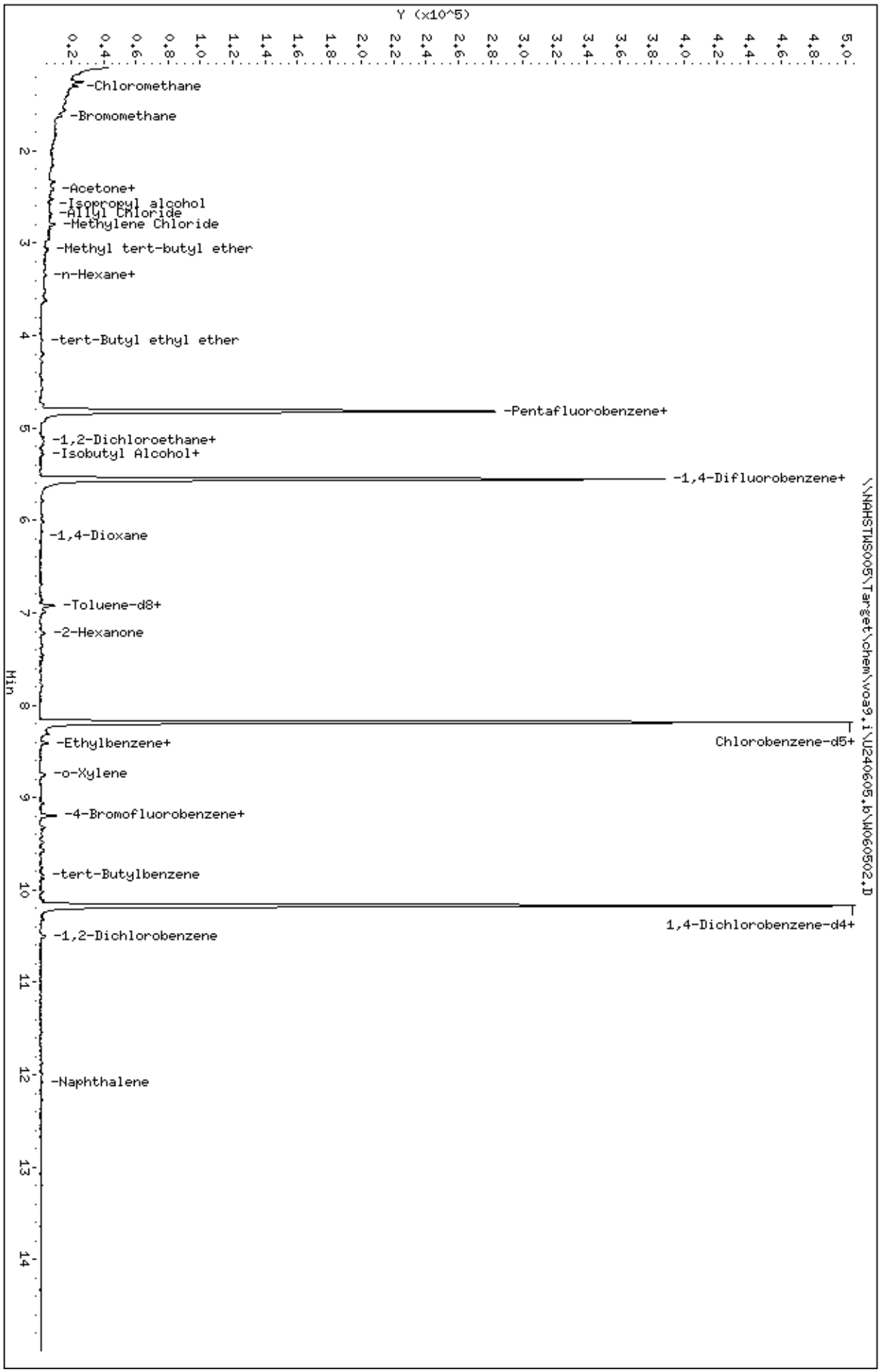
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Pentafluorobenzene	168	4.819	4.819	(1.000)	203418	50.0000	
	2 Dichlorodifluoromethane	85	1.014	1.014	(0.210)	10189	0.25000	16.67
	5 Vinyl Chloride	62	1.029	1.029	(0.214)	7241	0.25000	5.24
	6 Bromomethane	94	1.625	1.625	(0.337)	920	0.25000	0.93
	10 Acetone	43	2.416	2.416	(0.501)	2375	0.50000	0.28(a)
	12 Isobutyl Alcohol	43	5.291	5.291	(1.098)	1720	5.00000	7.95(Ta)
	14 Allyl Chloride	41	2.678	2.678	(0.556)	1075	0.25000	0.35(a)
	15 Iodomethane	142	2.472	2.472	(0.513)	815	0.50000	1.36(T)
	18 Methyl tert-butyl ether	73	3.087	3.087	(0.641)	856	0.25000	0.19(a)
$	30 Dibromofluoromethane	113	4.751	4.751	(0.986)	810	0.25000	0.55
	34 Carbon Tetrachloride	117	4.815	4.815	(0.867)	18529	0.25000	11.55
$	35 1,2-Dichloroethane-d4	65	5.100	5.100	(1.058)	1479	50.0000	0.82(T)
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	300967	50.0000	
	37 Benzene	78	5.141	5.141	(0.926)	2260	0.25000	0.52(T)
	42 1,2-Dichloropropane	63	5.554	5.554	(1.000)	62300	0.25000	39.03
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	266655	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	5479	50.0000	1.02(Ta)
	50 Toluene	91	6.986	6.986	(0.853)	1837	0.25000	0.30(a)
	58 1-Chlorohexane	55	8.185	8.185	(1.474)	3114	0.25000	2.32(a)
	61 Ethylbenzene	106	8.414	8.414	(1.028)	1303	0.25000	0.68(a)

62 m,p-Xylenes	106	8.414	8.414 (1.028)	1303	0.50000	0.55(a)
63 o-Xylene	106	8.751	8.751 (1.069)	714	0.25000	0.31(a)

							AMOUNTS	
		QUANT SIG					CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
$	69 4-Bromofluorobenzene	95	9.197	9.197	(1.124)	2984	50.0000	1.54(a)
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	131793	50.0000	
	71 1,2,3-Trichloropropane	75	9.194	9.194	(0.904)	1473	0.25000	2.06(a)
	78 tert-Butylbenzene	119	9.838	9.838	(0.968)	957	0.25000	0.26(Ta)
	83 1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	903	0.25000	0.32(a)
	84 1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	1228	0.25000	0.29(a)
	88 1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	866	0.25000	0.31(a)
	92 Naphthalene	128	12.080	12.080	(1.188)	954	0.25000	2.11(a)
	141 Cyclohexane	56	4.819	4.819	(1.000)	4582	0.25000	2.74(a)
	135 1,4-Dioxane	88	6.176	6.176	(1.282)	178	5.00000	11.59(aM)
	136 n-Hexane	57	3.349	3.349	(0.695)	644	0.25000	1.13(Ta)
	149 Isopropyl alcohol	45	2.573	2.573	(0.534)	849	5.00000	15.95(T)
	164 Dicyclopentadiene	66	10.198	10.198	(1.003)	1186	0.25000	1.14(Ta)
	166 1,2,3-Trimethylbenzene	105	10.236	10.236	(1.007)	794	0.25000	1.07(a)
	150 Allyl alcohol	57	3.349	3.349	(0.695)	644	5.00000	22.78

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa9,i\U240605,b\W060502,D
Date : 05-JUN-2024 18:58
Client ID: VSTD00.25
Sample Info: VSTD00.25;VSTD00.25;1;1
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: TS
Column diameter: 0.18

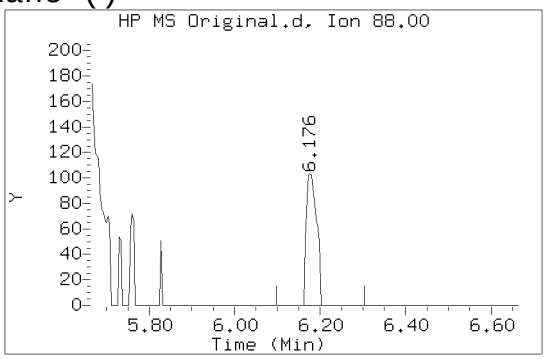
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Inj Date : 05-JUN-2024 18:58
InstruID : VOA9.i
LabSampID : VSTD00.25

1,4-Dioxane ()

Reason Code:

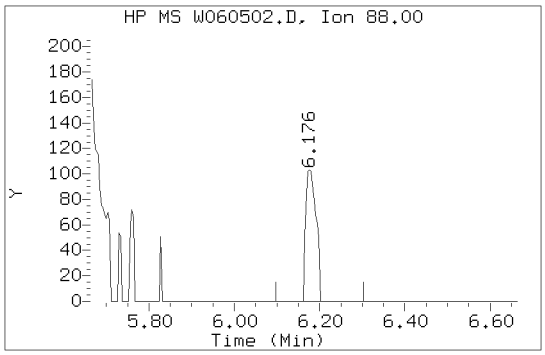
BEFORE

MASS
88
AREA
178
HEIGHT
103
21-Jun-2024
17:11
RUCHA
PATEL



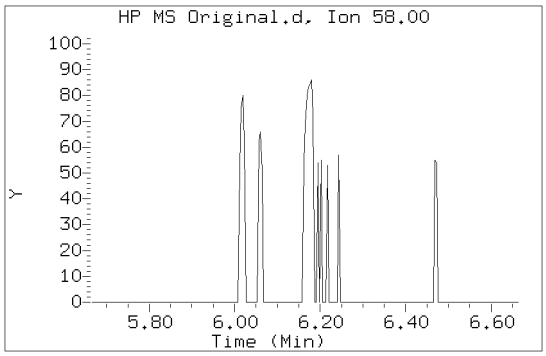
AFTER

MASS
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AREA
178
HEIGHT
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21-Jun-2024
17:11
RUCHA
PATEL



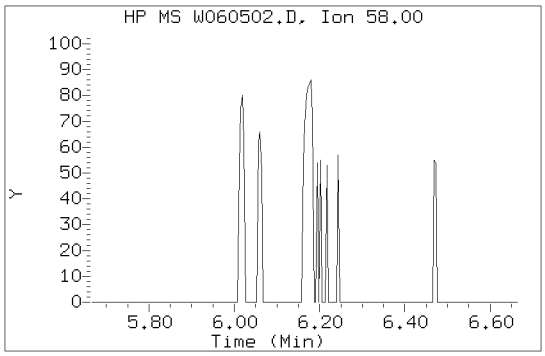
BEFORE

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HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
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AREA
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HEIGHT
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21-Jun-2024
17:11
RUCHA
PATEL



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060503.D Page 1
Report Date: 21-Jun-2024 17:11

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060503.D
Lab Smp Id: VSTD00.5 Client Smp ID: VSTD00.5
Inj Date : 05-JUN-2024 19:20
Operator : TS Inst ID: VOA9.i
Smp Info : VSTD00.5;VSTD00.5;1;2
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240605.b\8260C.m
Meth Date : 21-Jun-2024 17:11 VOA9.i Quant Type: ISTD
Cal Date : 05-JUN-2024 18:58 Cal File: W060502.D
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.815	4.815	(1.000)	202232	50.0000	
2	Dichlorodifluoromethane	85	1.164	1.164	(0.242)	284	0.50000	1.24(M)
4	Propionitrile	54	4.350	4.350	(0.903)	1894	5.00000	11.08(aM)
5	Vinyl Chloride	62	1.378	1.378	(0.286)	808	0.50000	0.58(M)
6	Bromomethane	94	1.617	1.617	(0.336)	1163	0.50000	1.33
7	Chloroethane	64	1.700	1.700	(0.353)	920	0.50000	0.74(M)
8	Trichlorofluoromethane	101	1.895	1.895	(0.394)	867	0.50000	0.48(a)
9	Acrolein	56	2.259	2.259	(0.469)	309	1.00000	0.48(aM)
10	Acetone	43	2.408	2.408	(0.500)	2389	1.00000	0.34(a)
11	1,1-Dichloroethene	96	2.326	2.326	(0.483)	670	0.50000	0.57(M)
12	Isobutyl Alcohol	43	5.287	5.287	(1.098)	2655	10.0000	12.34(a)
13	Acetonitrile	39	2.671	2.671	(0.555)	1332	5.00000	9.70(a)
14	Allyl Chloride	41	2.671	2.671	(0.555)	2988	0.50000	0.85(a)
15	Iodomethane	142	2.465	2.465	(0.512)	1019	1.00000	2.29(T)
16	Acrylonitrile	53	3.072	3.072	(0.638)	1178	1.00000	0.87
17	Methylene Chloride	84	2.795	2.795	(0.580)	2251	0.50000	0.26(a)
18	Methyl tert-butyl ether	73	3.083	3.083	(0.640)	3012	0.50000	0.82
19	Carbon Disulfide	76	2.517	2.517	(0.523)	4301	1.00000	1.29(M)
20	trans-1,2-Dichloroethene	96	3.061	3.061	(0.636)	879	0.50000	0.78
21	Vinyl Acetate	43	4.354	4.354	(0.904)	1568	1.00000	2.42(M)

22 1,1-Dichloroethane	63	3.514	3.514 (0.730)	1917	0.50000	0.47(Ta)
23 Chloroprene	53	3.612	3.612 (0.750)	1304	0.50000	0.63(a)

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060503.D Page 2
Report Date: 21-Jun-2024 17:11

			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
	24	2-Butanone	43	4.272	4.272	(0.887)	2623	1.00000	2.77(M)
	25	Methacrylonitrile	41	4.508	4.508	(0.936)	722	0.50000	2.25(aM)
	26	2,2-Dichloropropane	77	4.178	4.178	(0.868)	1084	0.50000	0.62(M)
	27	cis-1,2-Dichloroethene	96	4.200	4.200	(0.872)	1284	0.50000	1.02
	28	Chloroform	83	4.575	4.575	(0.950)	1646	0.50000	0.61
	29	Bromochloromethane	128	4.470	4.470	(0.928)	747	0.50000	0.51
$	30	Dibromofluoromethane	113	4.748	4.748	(0.986)	1435	0.50000	0.98
	31	1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	1076	0.50000	0.56
	32	1,1-Dichloropropene	75	4.920	4.920	(0.887)	1281	0.50000	0.66
	33	1,2-Dichloroethane	62	5.175	5.175	(0.932)	1732	0.50000	0.19(a)
	34	Carbon Tetrachloride	117	4.905	4.905	(0.884)	864	0.50000	0.54(M)
$	35	1,2-Dichloroethane-d4	65	5.100	5.100	(1.059)	1822	0.50000	1.02(T)
*	36	1,4-Difluorobenzene	114	5.550	5.550	(1.000)	298081	50.0000	
	37	Benzene	78	5.138	5.138	(0.926)	4327	0.50000	0.89
	38	Trichloroethene	130	5.786	5.786	(1.043)	843	0.50000	0.56(a)
	39	Bromodichloromethane	83	6.277	6.277	(1.131)	1181	0.50000	0.66(aM)
	41	2-Chloroethylvinyl ether	63	6.585	6.585	(1.186)	189	1.00000	6.49(M)
	42	1,2-Dichloropropane	63	6.003	6.003	(1.082)	1317	0.50000	0.76(aM)
	43	2-Nitropropane	43	6.510	6.510	(1.352)	123	0.50000	0.42(aM)
	44	Dibromomethane	93	6.120	6.120	(1.103)	694	0.50000	0.58(a)
	45	4-Methyl-2-Pentanone	43	6.854	6.854	(0.838)	2528	1.00000	4.16(a)
	46	cis-1,3-Dichloropropene	75	6.689	6.689	(1.205)	1067	0.50000	2.89(aM)
*	47	Chlorobenzene-d5	117	8.181	8.181	(1.000)	263992	50.0000	
$	48	Toluene-d8	98	6.922	6.922	(0.846)	5504	0.50000	1.03(a)
	49	Ethyl Methacrylate	69	7.289	7.289	(1.313)	1227	0.50000	0.63(a)
	50	Toluene	91	6.982	6.982	(0.853)	3702	0.50000	0.62(a)
	51	trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	715	0.50000	2.97(aM)
	52	2-Hexanone	43	7.222	7.222	(0.883)	2401	1.00000	0.76(Ta)
	53	1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	916	0.50000	0.61(a)
	54	1,3-Dichloropropane	76	7.499	7.499	(0.917)	1886	0.50000	0.73(a)
	55	Dibromochloromethane	129	7.690	7.690	(0.940)	603	0.50000	2.31(aM)
	56	Tetrachloroethene	164	7.454	7.454	(0.911)	587	0.50000	0.51(aM)
	57	1,2-Dibromoethane	107	7.784	7.784	(0.951)	908	0.50000	1.26(a)
	58	1-Chlorohexane	55	8.181	8.181	(1.474)	3325	0.50000	2.51(a)
	59	Chlorobenzene	112	8.208	8.208	(1.003)	2889	0.50000	0.65(a)
	60	1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	705	0.50000	0.55(a)
	61	Ethylbenzene	106	8.305	8.305	(1.015)	1156	0.50000	0.61(aM)
	62	m,p-Xylenes	106	8.406	8.406	(1.027)	2704	1.00000	1.15(a)
	63	o-Xylene	106	8.747	8.747	(1.069)	1216	0.50000	0.53(a)
	64	Styrene	104	8.762	8.762	(1.071)	1921	0.50000	0.52(a)
	66	Bromoform	173	8.912	8.912	(1.089)	366	0.50000	3.90(aM)
	67	Isopropylbenzene	105	9.059	9.059	(1.107)	2516	0.50000	0.46(a)
	68	1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	1446	0.50000	0.58(aM)
$	69	4-Bromofluorobenzene	95	9.194	9.194	(1.124)	2350	0.50000	1.22(a)
*	70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	128660	50.0000	
	71	1,2,3-Trichloropropane	75	9.362	9.362	(0.921)	1453	0.50000	2.07(aM)
	72	trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	294	0.50000	1.39(aM)
	73	n-Propylbenzene	91	9.411	9.411	(0.926)	3120	0.50000	0.53(a)
	74	Bromobenzene	156	9.317	9.317	(0.916)	1069	0.50000	1.02(a)
	75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	1931	0.50000	0.50(a)
	76	2-Chlorotoluene	91	9.482	9.482	(0.933)	2362	0.50000	0.62(a)
	77	4-Chlorotoluene	91	9.576	9.576	(0.942)	2708	0.50000	0.62(a)

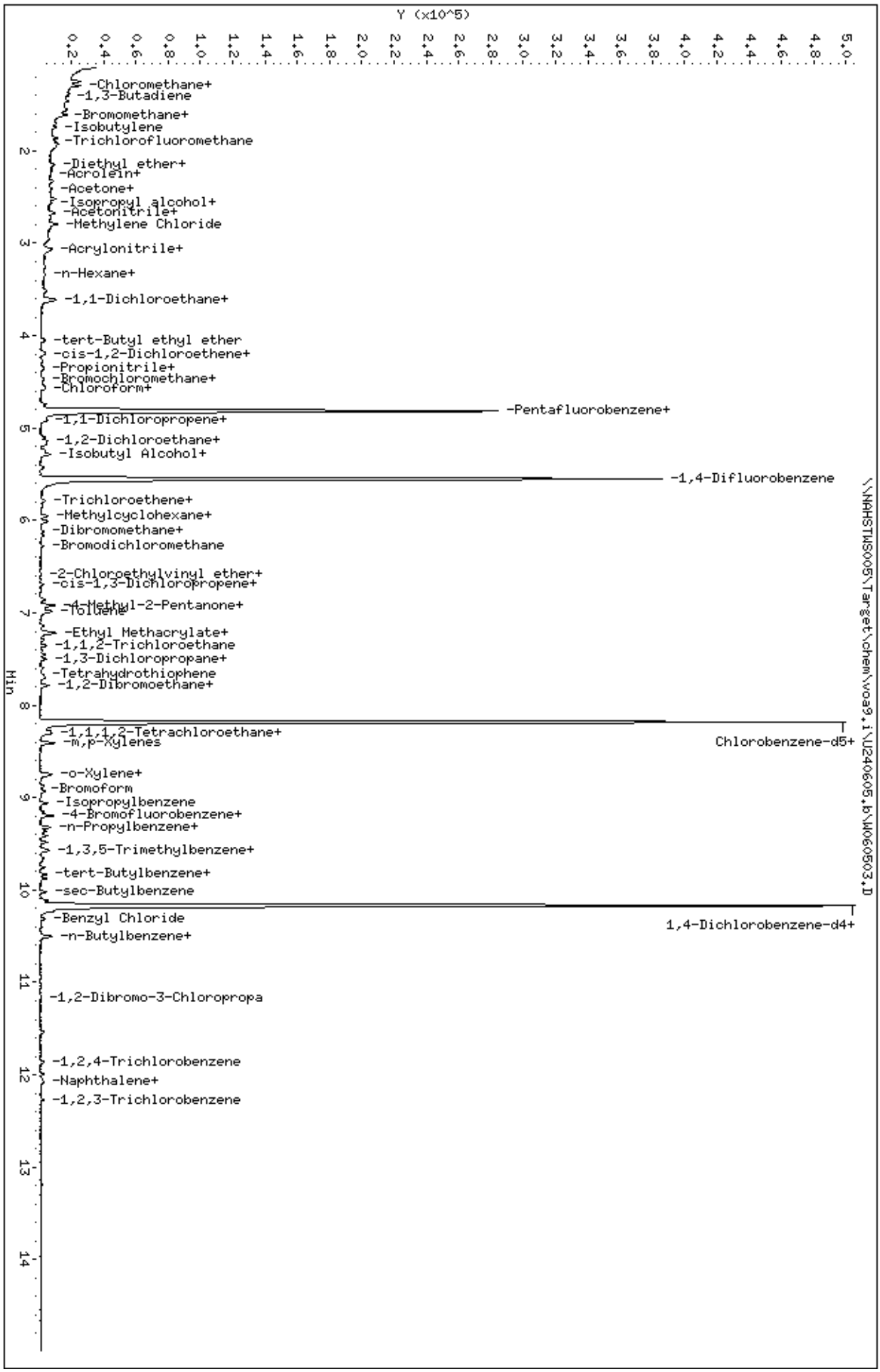
78 tert-Butylbenzene	119	9.835	9.835 (0.967)	1903	0.50000	0.54(a)
79 1,2,4-Trimethylbenzene	105	9.880	9.880 (0.972)	2234	0.50000	0.56(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	2156	0.50000	0.46(a)
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	1834	0.50000	0.46(a)
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.995)	1808	0.50000	0.66(a)
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	2283	0.50000	0.70(a)
86	Benzyl Chloride	91	10.311	10.311	(1.260)	1834	0.50000	2.40(aM)
87	n-Butylbenzene	91	10.494	10.494	(1.032)	2086	0.50000	2.22(a)
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	2011	0.50000	0.77(a)
89	1,2-Dibromo-3-Chloropropane	155	11.177	11.177	(1.099)	25	0.50000	1.60(aM)
90	1,2,4-Trichlorobenzene	180	11.863	11.863	(1.167)	1040	0.50000	2.34(aM)
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	391	0.50000	0.53(aM)
92	Naphthalene	128	12.073	12.073	(1.187)	1887	0.50000	2.33(a)
93	1,2,3-Trichlorobenzene	180	12.275	12.275	(1.207)	878	0.50000	0.59(aM)
146	Methyl acetate	43	2.716	2.716	(0.564)	1420	0.50000	(aM)
138	Freon TF	101	2.330	2.330	(0.484)	460	0.50000	0.46(aM)
141	Cyclohexane	56	4.811	4.811	(0.999)	4482	0.50000	2.70(a)
142	Tetrahydrofuran	42	4.549	4.549	(0.945)	1151	1.00000	3.49(aM)
147	Methylcyclohexane	55	5.951	5.951	(1.072)	2086	0.50000	0.60(a)
135	1,4-Dioxane	88	6.165	6.165	(1.280)	421	10.0000	28.04(M)
132	n-Butanol	56	5.835	5.835	(1.212)	614	10.0000	69.05(a)
136	n-Hexane	57	3.338	3.338	(0.693)	715	0.50000	1.19(Ta)
139	Diethyl ether	59	2.146	2.146	(0.446)	849	0.50000	0.77(a)
148	Tert-butyl alcohol	59	2.971	2.971	(0.617)	2487	10.0000	28.64
149	Isopropyl alcohol	45	2.570	2.570	(0.534)	1929	10.0000	26.76
156	Diisopropyl ether	45	3.616	3.616	(0.751)	4355	0.50000	1.18(aM)
162	Butyl acrylate	55	8.736	8.736	(1.068)	1576	0.50000	0.60(Ta)
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	4397	0.50000	1.66(a)
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	2858	0.50000	1.58(a)
167	Ethanol	45	2.086	2.086	(0.433)	312	10.0000	6.56(M)
172	tert-Butyl formate	59	5.246	5.246	(1.090)	1788	1.00000	2.02(aM)
151	4-Methyl-2-pentanol	45	7.218	7.218	(1.301)	5488	10.0000	67.70
140	1,3-Butadiene	54	1.404	1.404	(0.292)	546	0.50000	1.29(aM)
182	Epichlorohydrin	57	6.633	6.633	(1.195)	232	2.00000	4.26(aM)
M 94	1,2-Dichloroethylene (total)	96				2163	1.00000	(a)
130	Ethyl Acetate	43	4.549	4.549	(0.945)	776	0.50000	(TaM)
131	Methyl Acrylate	55	4.377	4.377	(0.909)	1181	0.50000	1.45(aM)
189	n-Butyl acetate	43	7.709	7.709	(0.942)	1029	0.50000	0.52(TaM)
134	Cyclohexanone	55	9.156	9.156	(0.900)	1015	10.0000	1.04(Ta)
188	Isopropyl acetate	43	5.287	5.287	(0.953)	3037	0.50000	1.02(aM)
150	Allyl alcohol	57	3.338	3.338	(0.693)	715	10.0000	23.93
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	271	0.50000	1.48(aM)
133	Ethyl Acrylate	55	5.951	5.951	(1.236)	2201	0.50000	0.64(aM)
203	2-Ethylhexyl Acrylate	55	12.046	12.046	(1.185)	699	0.50000	1.69(aM)
204	Tetrahydrothiophene	60	7.672	7.672	(0.938)	732	0.50000	0.58(aAM)
205	sec-Butyl Ether	57	7.218	7.218	(0.882)	2215	0.50000	0.68(aAM)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount

exceeded maximum amount.
M - Compound response manually integrated.



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Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

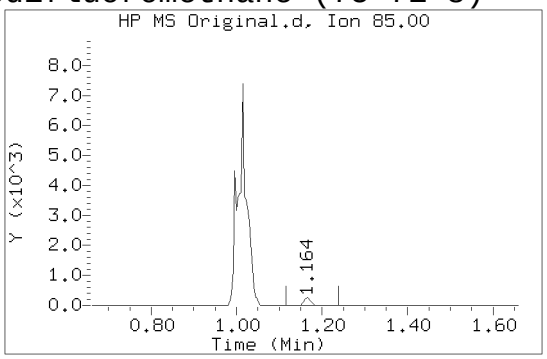
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LabSampID : VSTD00.5

Dichlorodifluoromethane (75-71-8)

Reason Code:

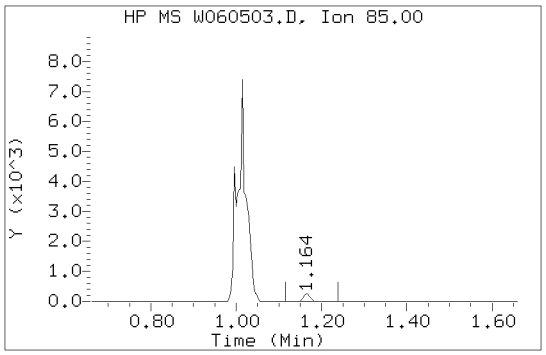
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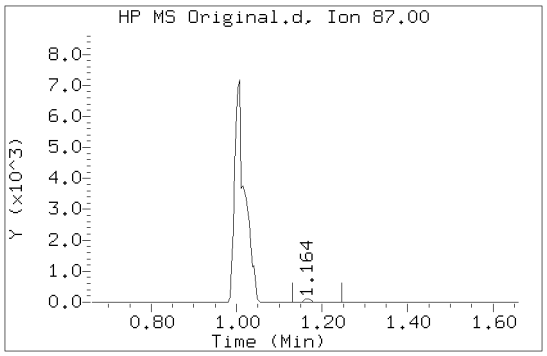
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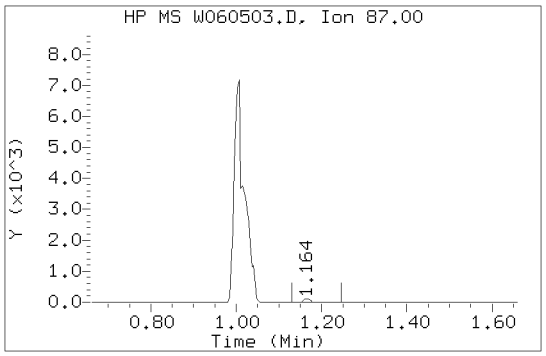
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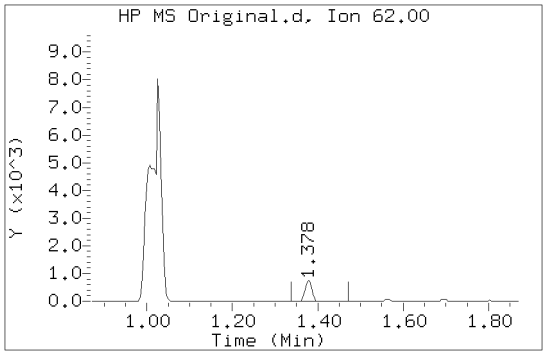


Vinyl Chloride (75-01-4)

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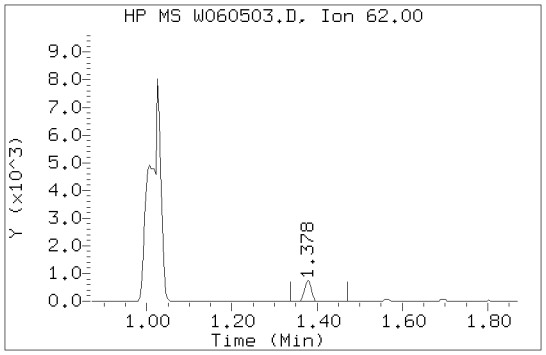
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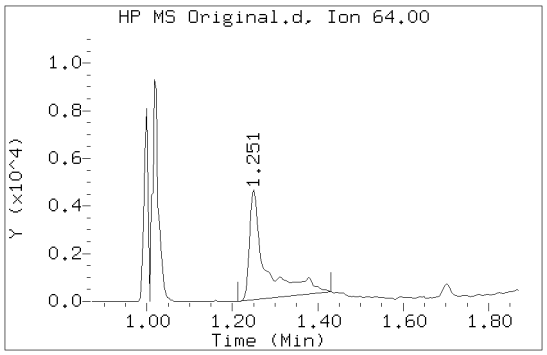
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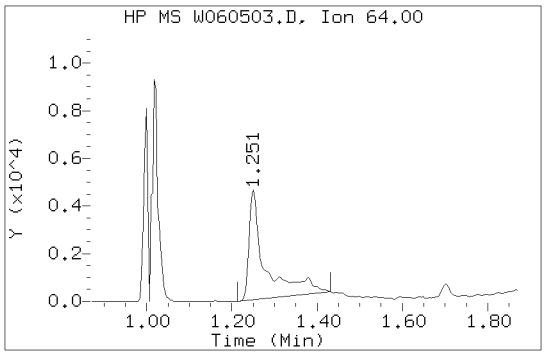
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AFTER

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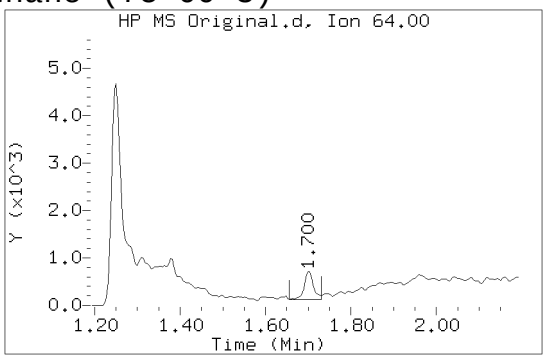
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LabSampID : VSTD00.5

Chloroethane (75-00-3)

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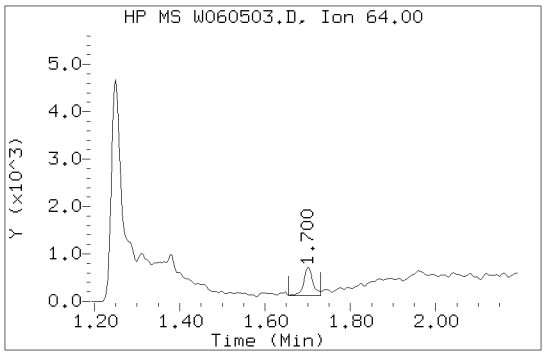
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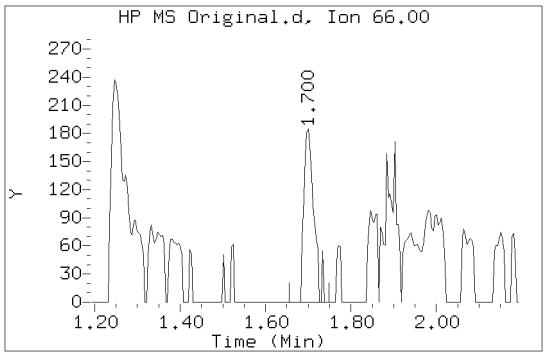
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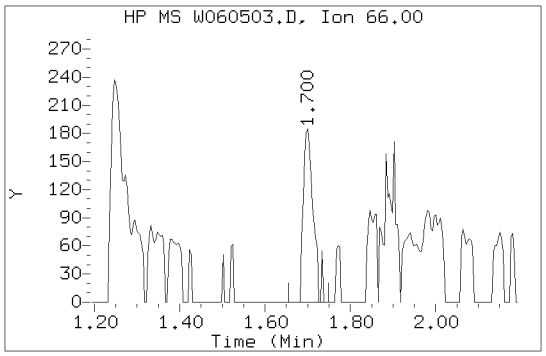
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AFTER

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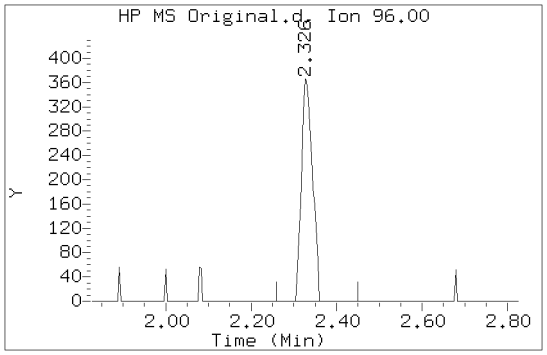


1,1-Dichloroethene (75-35-4)

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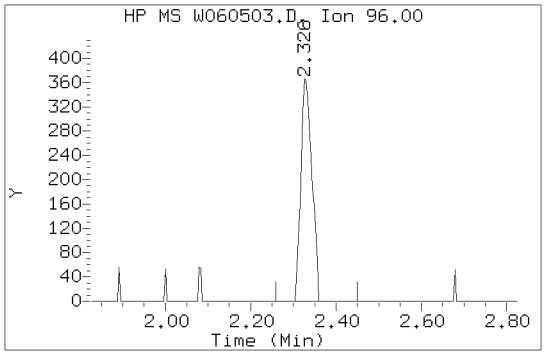
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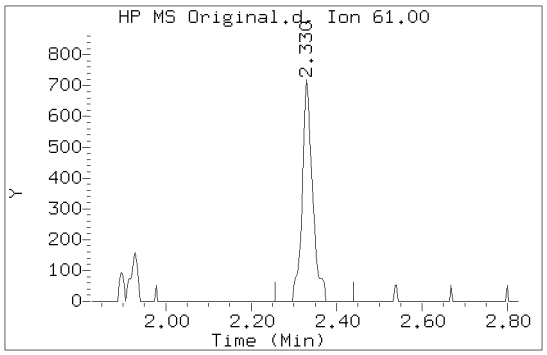
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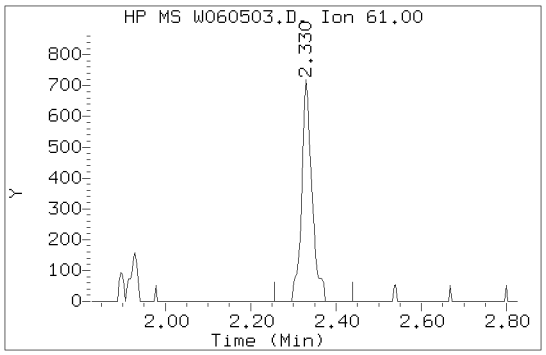
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AFTER

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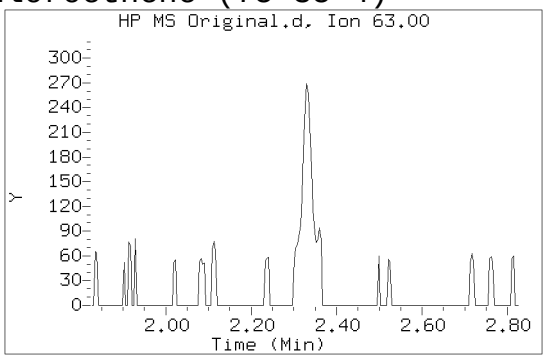
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LabSampID : VSTD00.5

1,1-Dichloroethene (75-35-4)

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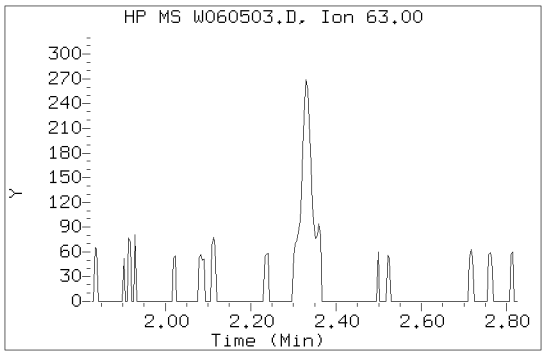
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AFTER

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RUCHA
PATEL

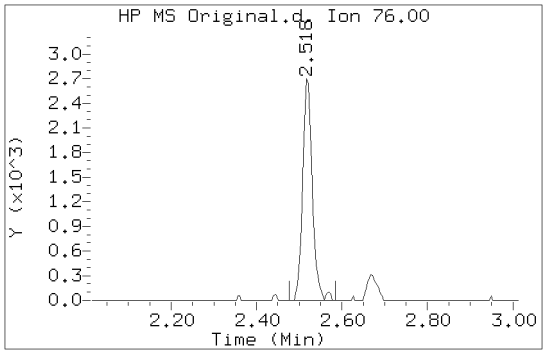


Carbon Disulfide (75-15-0)

Reason Code:

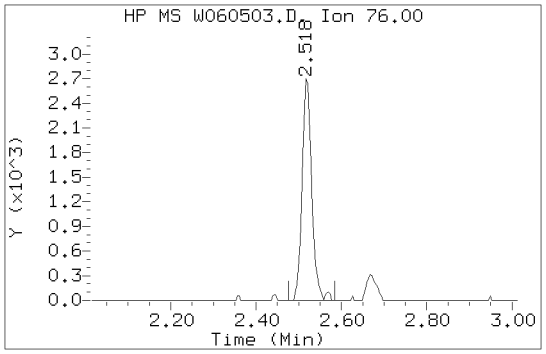
BEFORE

MASS
76
AREA
4301
HEIGHT
2700
21-Jun-2024
17:11
RUCHA
PATEL



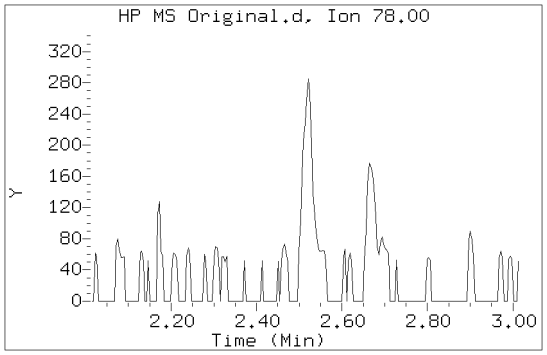
AFTER

MASS
76
AREA
4301
HEIGHT
2700
21-Jun-2024
17:11
RUCHA
PATEL



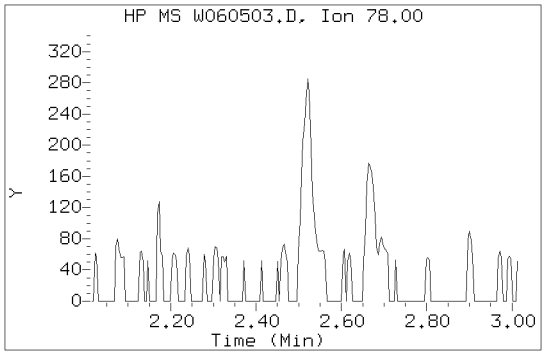
BEFORE

MASS
78
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
78
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

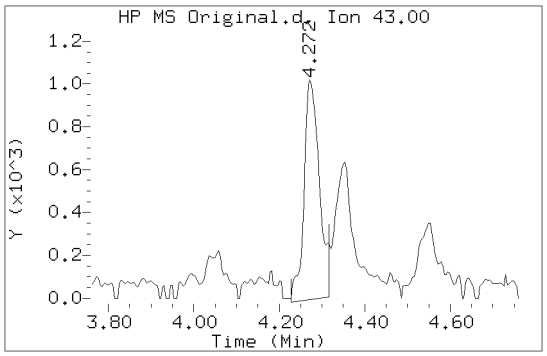


2-Butanone (78-93-3)

Reason Code:

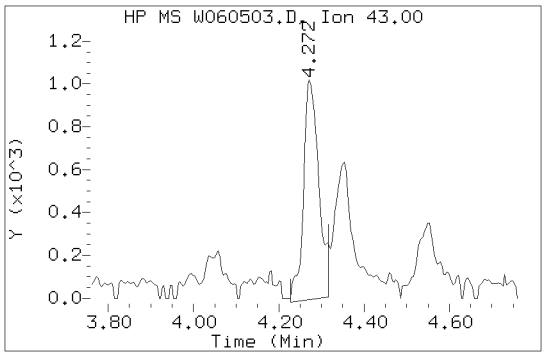
BEFORE

MASS
43
AREA
2623
HEIGHT
1026
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
43
AREA
2623
HEIGHT
1026
21-Jun-2024
17:11
RUCHA
PATEL



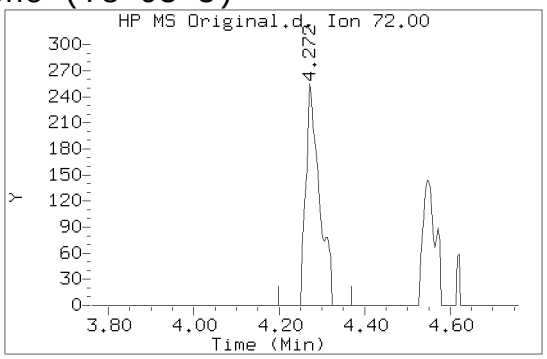
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060503.D
Inj Date : 05-JUN-2024 19:20
InstruID : VOA9.i
LabSampID : VSTD00.5

2-Butanone (78-93-3)

Reason Code:

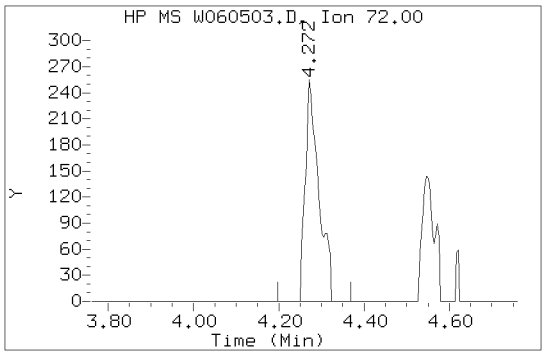
BEFORE

MASS
72
AREA
569
HEIGHT
255
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
72
AREA
569
HEIGHT
255
21-Jun-2024
17:11
RUCHA
PATEL

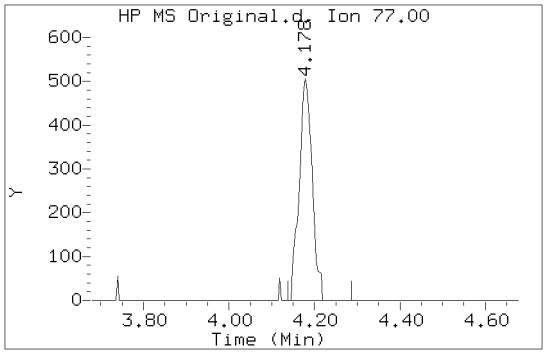


2,2-Dichloropropane (594-20-7)

Reason Code:

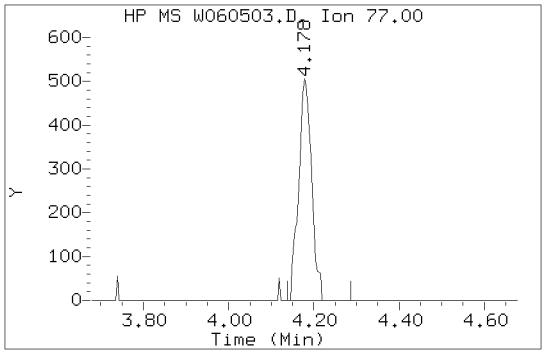
BEFORE

MASS
77
AREA
1084
HEIGHT
506
21-Jun-2024
17:11
RUCHA
PATEL



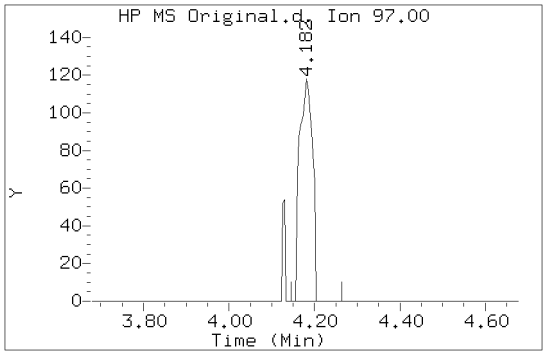
AFTER

MASS
77
AREA
1084
HEIGHT
506
21-Jun-2024
17:11
RUCHA
PATEL



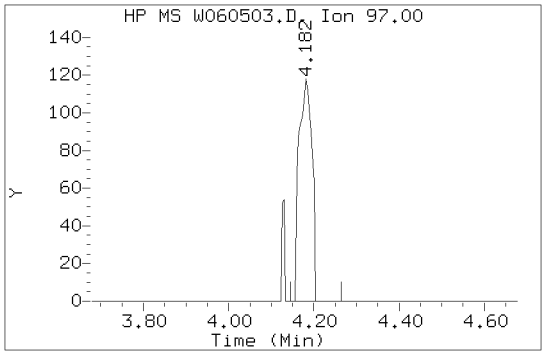
BEFORE

MASS
97
AREA
251
HEIGHT
118
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
97
AREA
251
HEIGHT
118
21-Jun-2024
17:11
RUCHA
PATEL

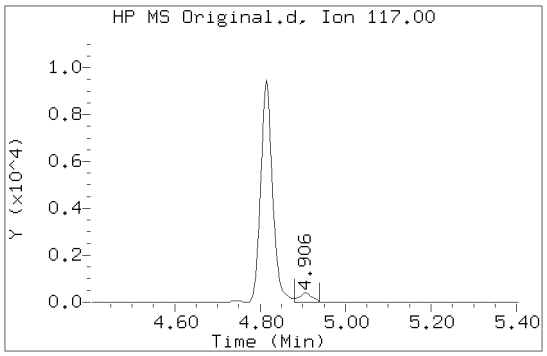


Carbon Tetrachloride (56-23-5)

Reason Code:

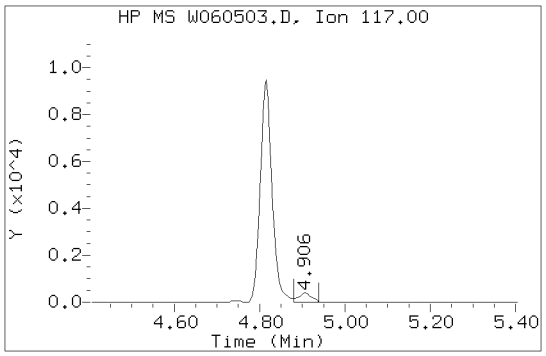
BEFORE

MASS
117
AREA
864
HEIGHT
396
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
117
AREA
864
HEIGHT
396
21-Jun-2024
17:11
RUCHA
PATEL



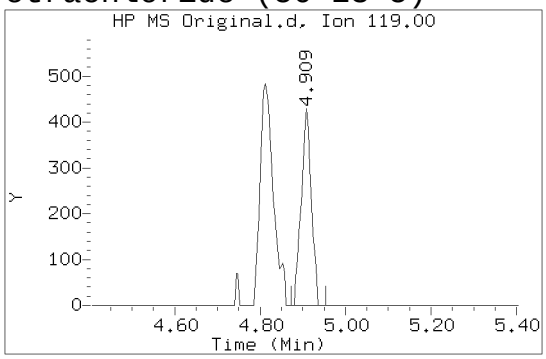
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Inj Date : 05-JUN-2024 19:20
InstruID : VOA9.i
LabSampID : VSTD00.5

Carbon Tetrachloride (56-23-5)

Reason Code:

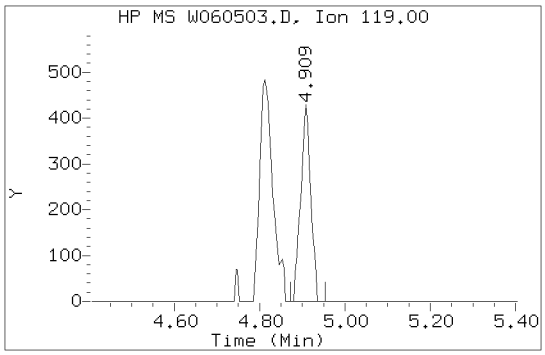
BEFORE

MASS
119
AREA
712
HEIGHT
429
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
119
AREA
712
HEIGHT
429
21-Jun-2024
17:11
RUCHA
PATEL

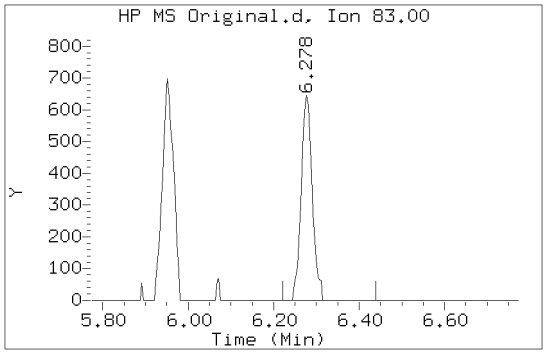


Bromodichloromethane (75-27-4)

Reason Code:

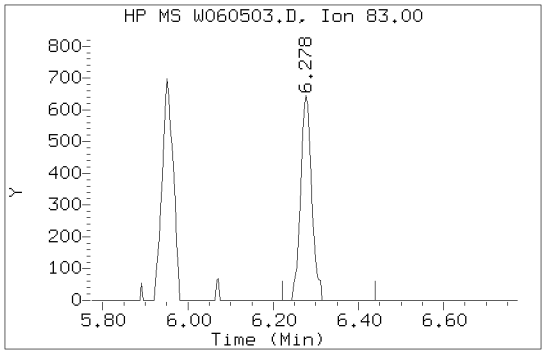
BEFORE

MASS
83
AREA
1181
HEIGHT
646
21-Jun-2024
17:11
RUCHA
PATEL



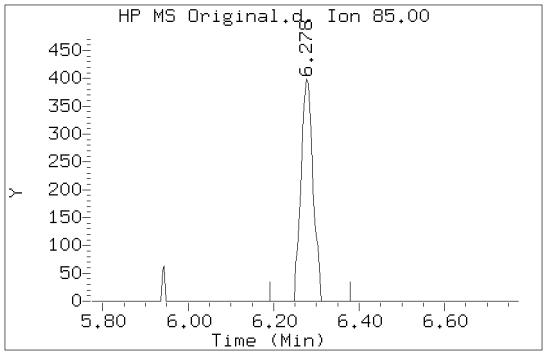
AFTER

MASS
83
AREA
1181
HEIGHT
646
21-Jun-2024
17:11
RUCHA
PATEL



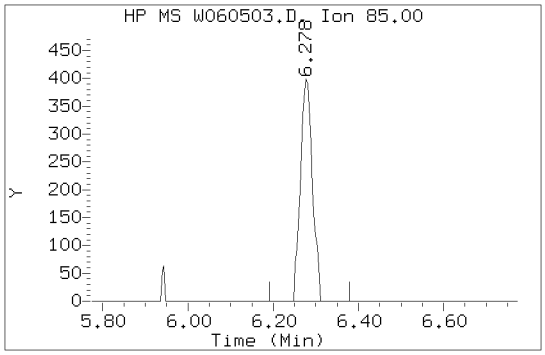
BEFORE

MASS
85
AREA
791
HEIGHT
399
21-Jun-2024
17:11
RUCHA
PATEL



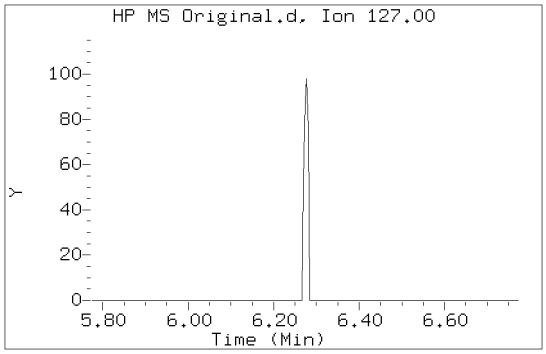
AFTER

MASS
85
AREA
791
HEIGHT
399
21-Jun-2024
17:11
RUCHA
PATEL



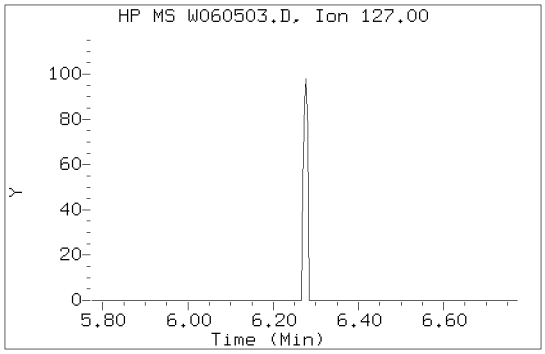
BEFORE

MASS
127
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
127
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



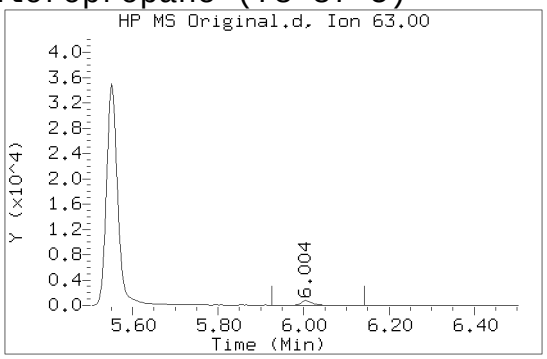
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060503.D
Inj Date : 05-JUN-2024 19:20
InstruID : VOA9.i
LabSampID : VSTD00.5

1,2-Dichloropropane (78-87-5)

Reason Code:

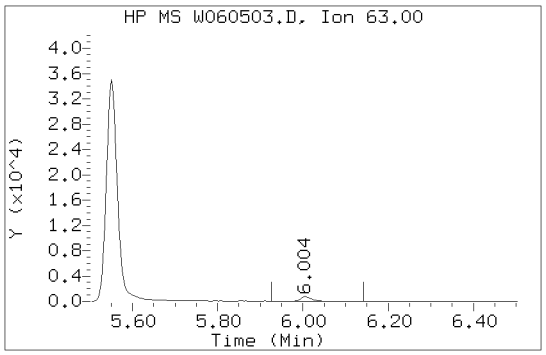
BEFORE

MASS
63
AREA
1317
HEIGHT
761
21-Jun-2024
17:11
RUCHA
PATEL



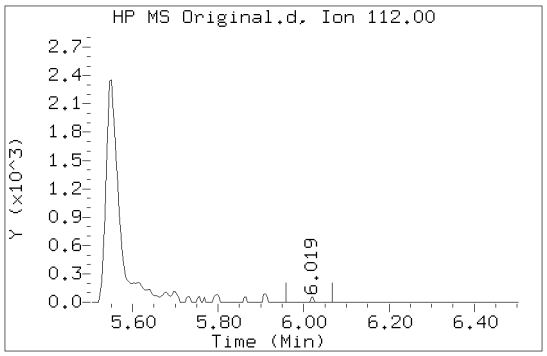
AFTER

MASS
63
AREA
1317
HEIGHT
761
21-Jun-2024
17:11
RUCHA
PATEL



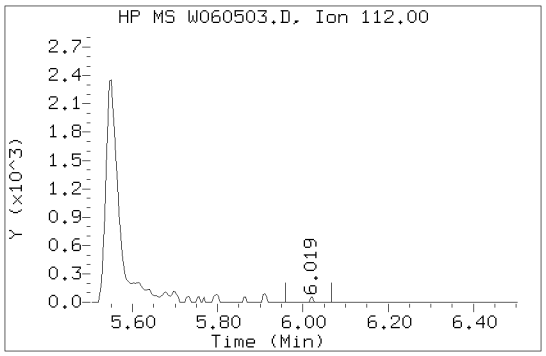
BEFORE

MASS
112
AREA
24
HEIGHT
55
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
112
AREA
24
HEIGHT
55
21-Jun-2024
17:11
RUCHA
PATEL

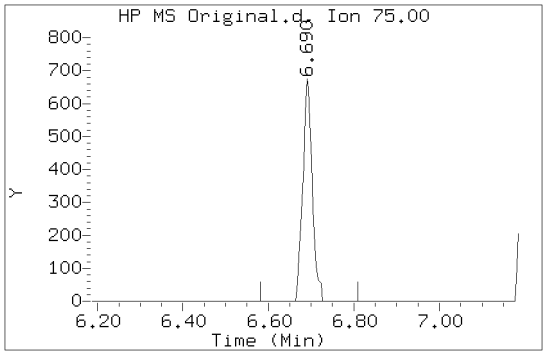


cis-1,3-Dichloropropene (10061-01-5)

Reason Code:

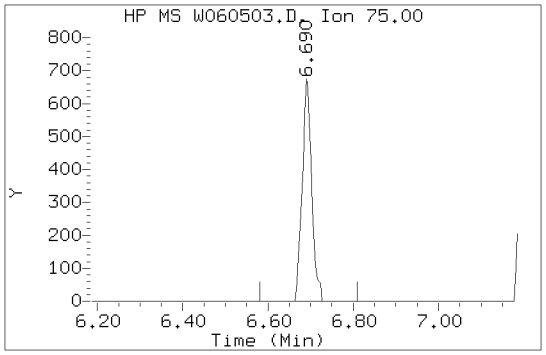
BEFORE

MASS
75
AREA
1067
HEIGHT
675
21-Jun-2024
17:11
RUCHA
PATEL



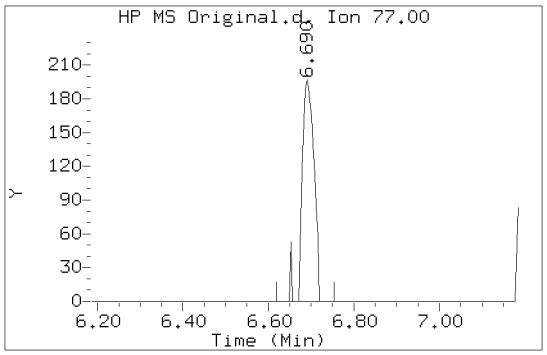
AFTER

MASS
75
AREA
1067
HEIGHT
675
21-Jun-2024
17:11
RUCHA
PATEL



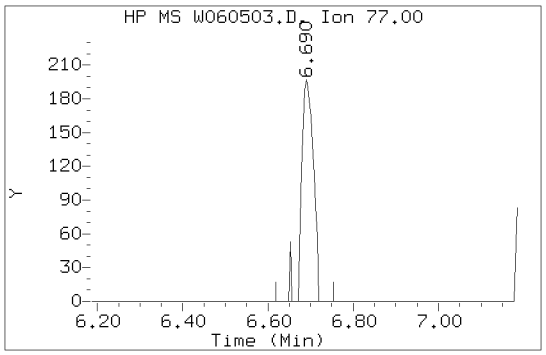
BEFORE

MASS
77
AREA
385
HEIGHT
197
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
77
AREA
385
HEIGHT
197
21-Jun-2024
17:11
RUCHA
PATEL



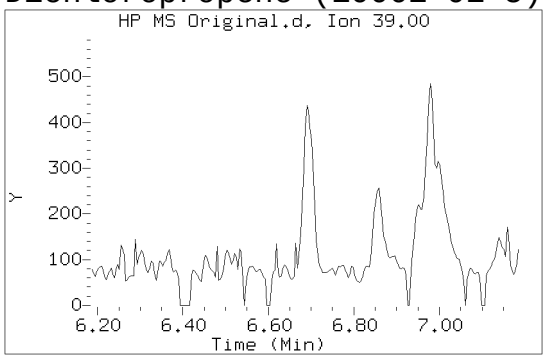
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Inj Date : 05-JUN-2024 19:20
InstruID : VOA9.i
LabSampID : VSTD00.5

cis-1,3-Dichloropropene (10061-01-5)

Reason Code:

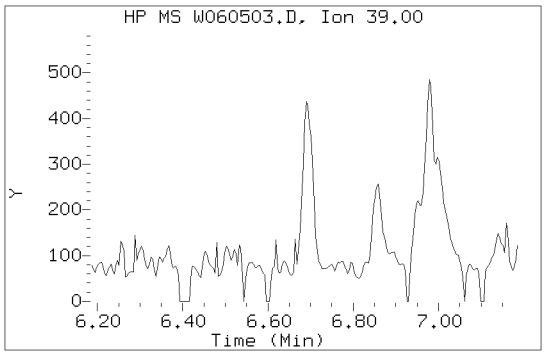
BEFORE

MASS
39
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
39
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

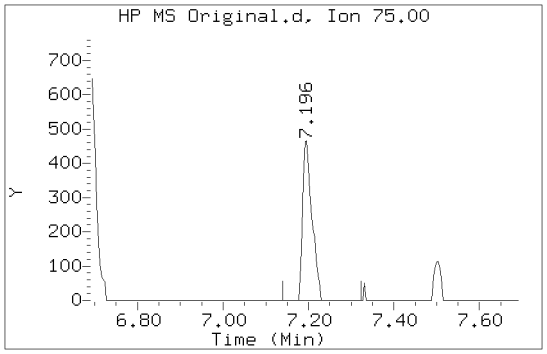


trans-1,3-Dichloropropene (10061-02-6)

Reason Code:

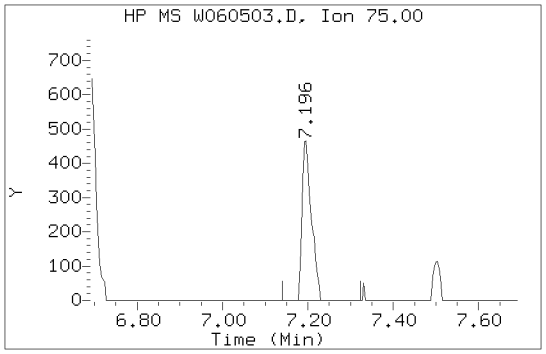
BEFORE

MASS
75
AREA
715
HEIGHT
465
21-Jun-2024
17:11
RUCHA
PATEL



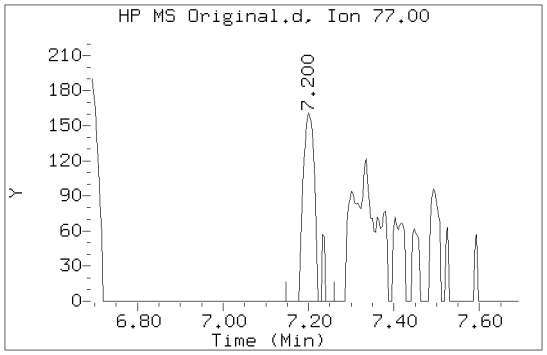
AFTER

MASS
75
AREA
715
HEIGHT
465
21-Jun-2024
17:11
RUCHA
PATEL



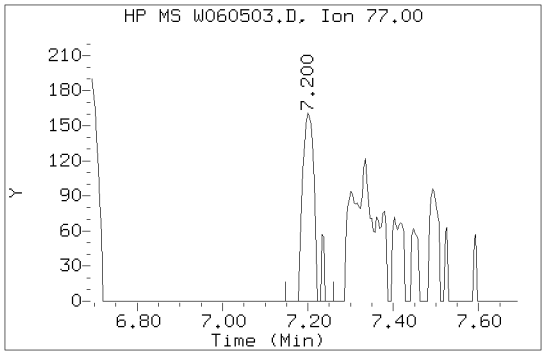
BEFORE

MASS
77
AREA
318
HEIGHT
161
21-Jun-2024
17:11
RUCHA
PATEL



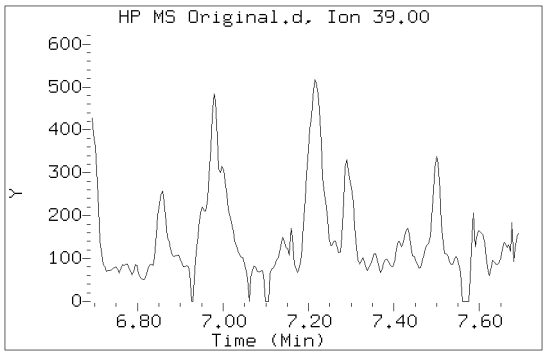
AFTER

MASS
77
AREA
318
HEIGHT
161
21-Jun-2024
17:11
RUCHA
PATEL



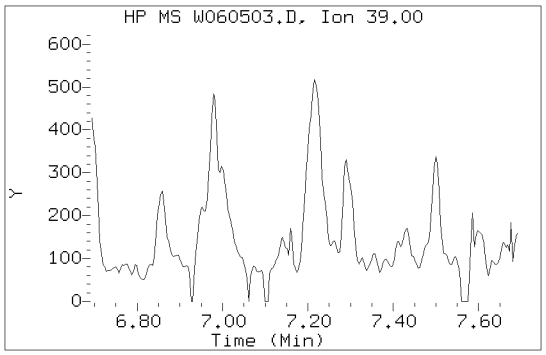
BEFORE

MASS
39
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
39
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



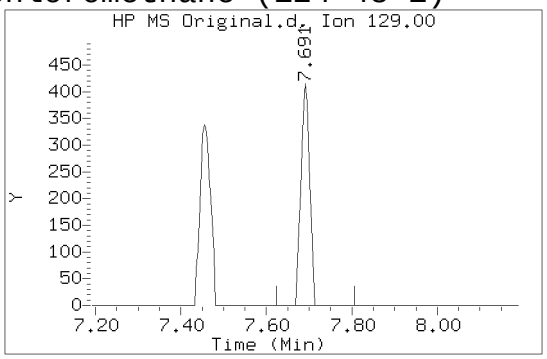
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060503.D
Inj Date : 05-JUN-2024 19:20
InstruID : VOA9.i
LabSampID : VSTD00.5

Dibromochloromethane (124-48-1)

Reason Code:

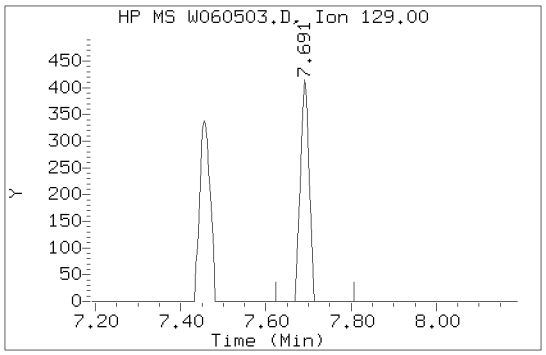
BEFORE

MASS
129
AREA
603
HEIGHT
415
21-Jun-2024
17:11
RUCHA
PATEL



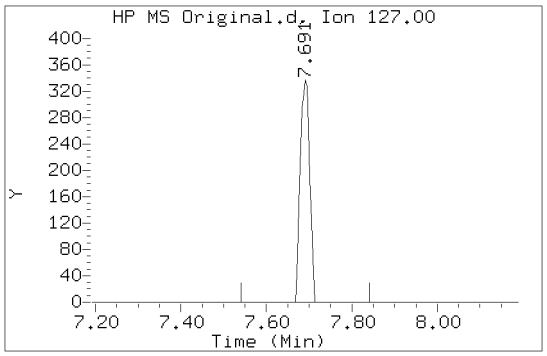
AFTER

MASS
129
AREA
603
HEIGHT
415
21-Jun-2024
17:11
RUCHA
PATEL



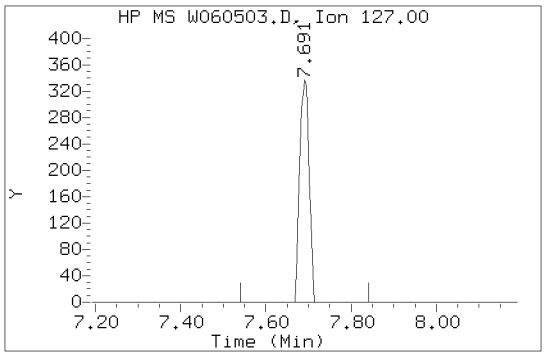
BEFORE

MASS
127
AREA
532
HEIGHT
337
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
127
AREA
532
HEIGHT
337
21-Jun-2024
17:11
RUCHA
PATEL

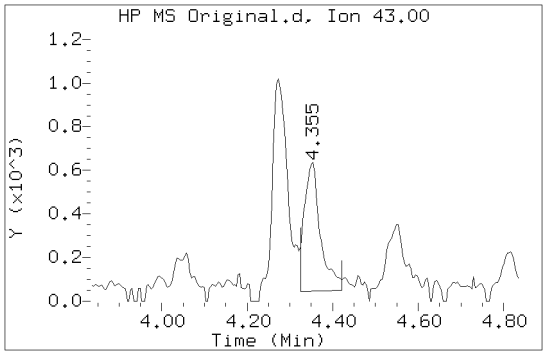


Vinyl Acetate (108-05-4)

Reason Code:

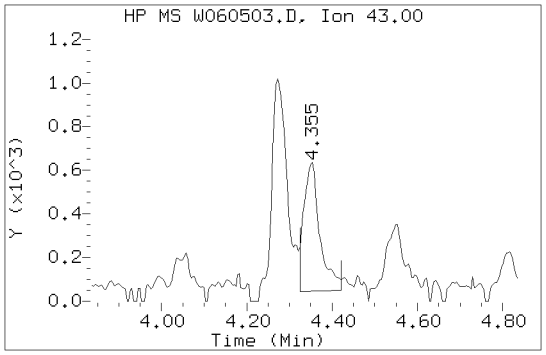
BEFORE

MASS
43
AREA
1568
HEIGHT
588
21-Jun-2024
17:11
RUCHA
PATEL



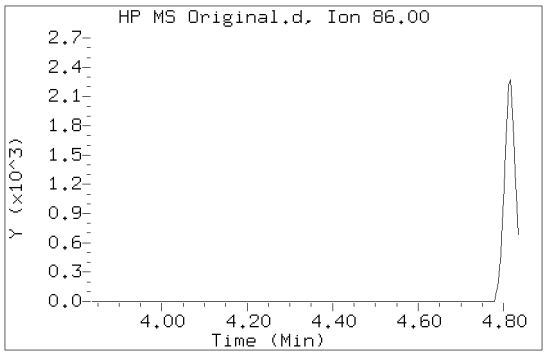
AFTER

MASS
43
AREA
1568
HEIGHT
588
21-Jun-2024
17:11
RUCHA
PATEL



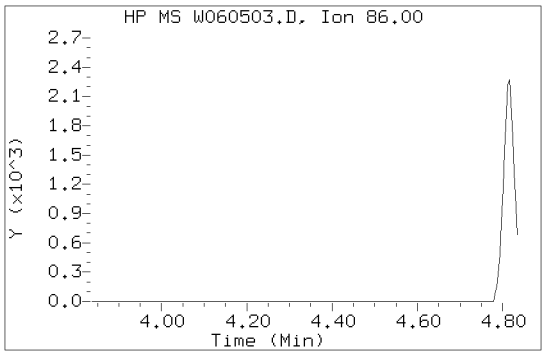
BEFORE

MASS
86
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
86
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



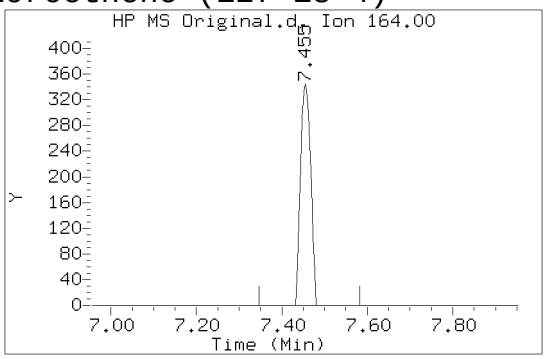
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060503.D
Inj Date : 05-JUN-2024 19:20
InstruID : VOA9.i
LabSampID : VSTD00.5

Tetrachloroethene (127-18-4)

Reason Code:

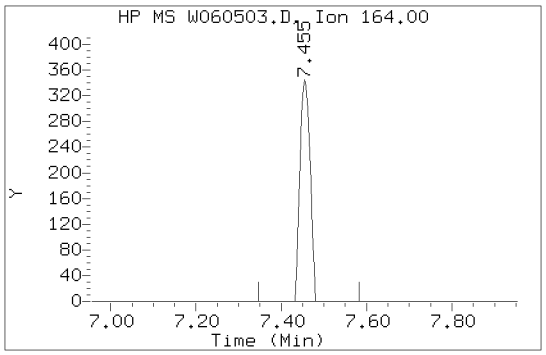
BEFORE

MASS
164
AREA
587
HEIGHT
345
21-Jun-2024
17:11
RUCHA
PATEL



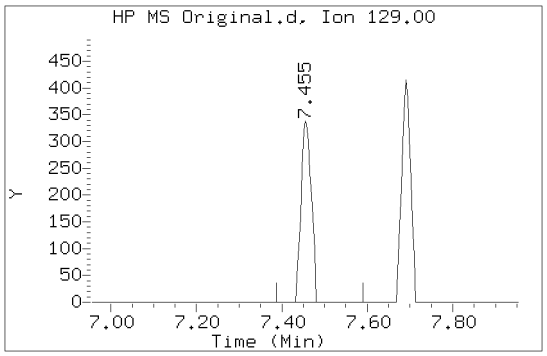
AFTER

MASS
164
AREA
587
HEIGHT
345
21-Jun-2024
17:11
RUCHA
PATEL



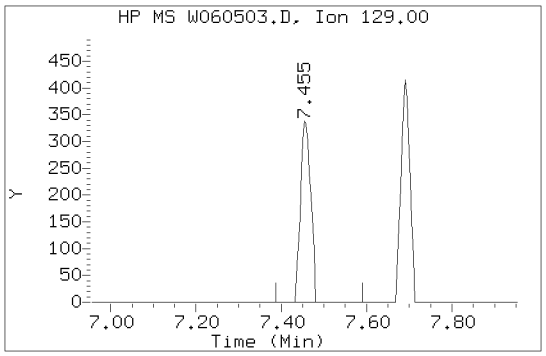
BEFORE

MASS
129
AREA
578
HEIGHT
338
21-Jun-2024
17:11
RUCHA
PATEL



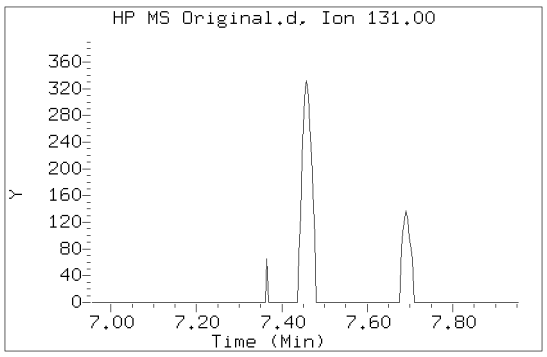
AFTER

MASS
129
AREA
578
HEIGHT
338
21-Jun-2024
17:11
RUCHA
PATEL



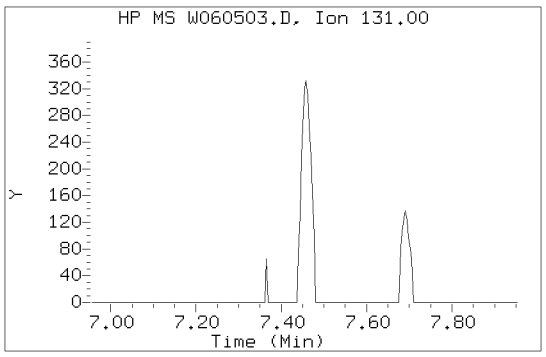
BEFORE

MASS
131
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
131
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

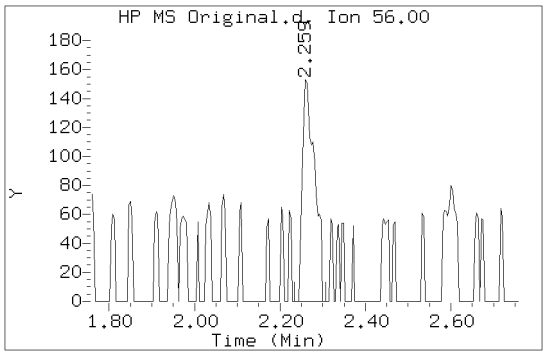


Acrolein (107-02-8)

Reason Code:

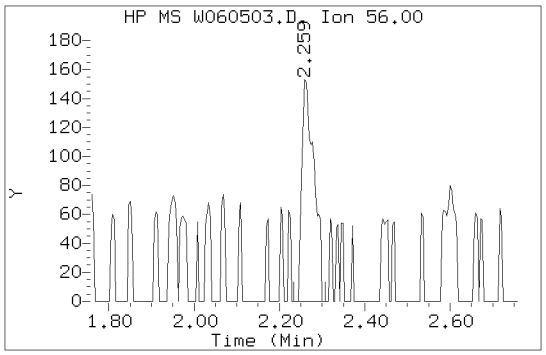
BEFORE

MASS
56
AREA
309
HEIGHT
153
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
56
AREA
309
HEIGHT
153
21-Jun-2024
17:11
RUCHA
PATEL



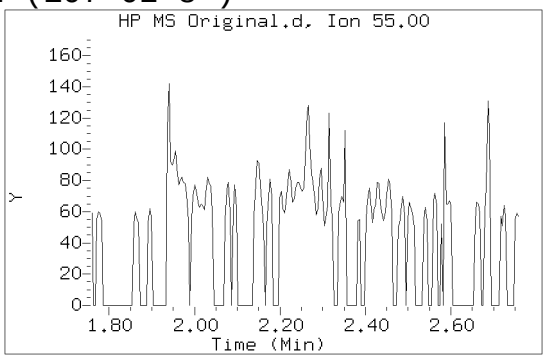
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060503.D
Inj Date : 05-JUN-2024 19:20
InstruID : VOA9.i
LabSampID : VSTD00.5

Acrolein (107-02-8)

Reason Code:

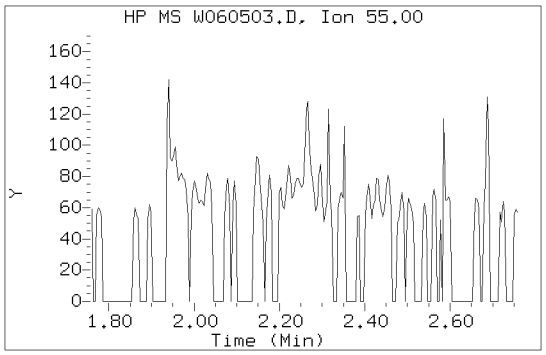
BEFORE

MASS
55
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
55
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

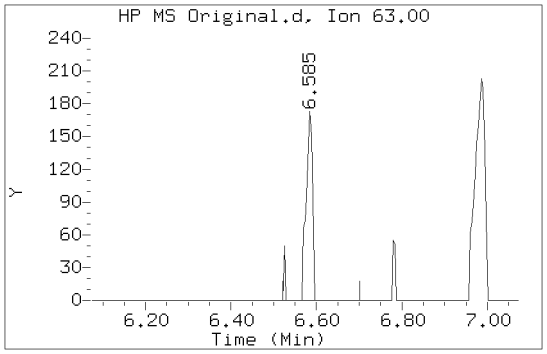


2-Chloroethylvinyl ether (110-75-8)

Reason Code:

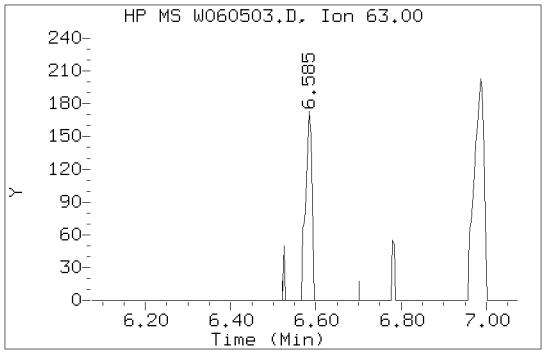
BEFORE

MASS
63
AREA
189
HEIGHT
173
21-Jun-2024
17:11
RUCHA
PATEL



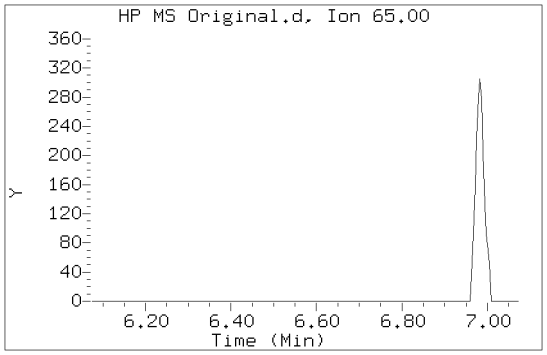
AFTER

MASS
63
AREA
189
HEIGHT
173
21-Jun-2024
17:11
RUCHA
PATEL



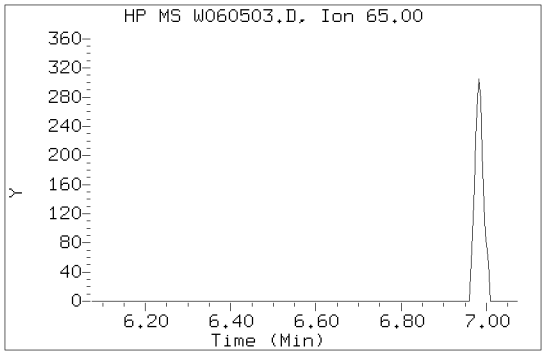
BEFORE

MASS
65
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



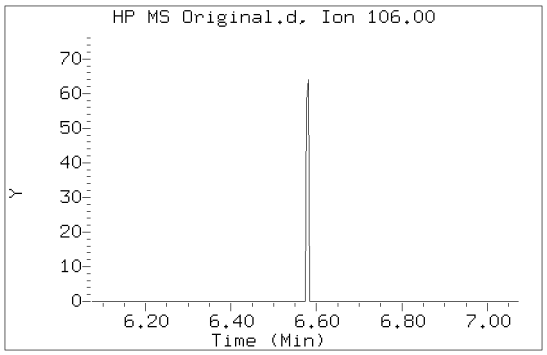
AFTER

MASS
65
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



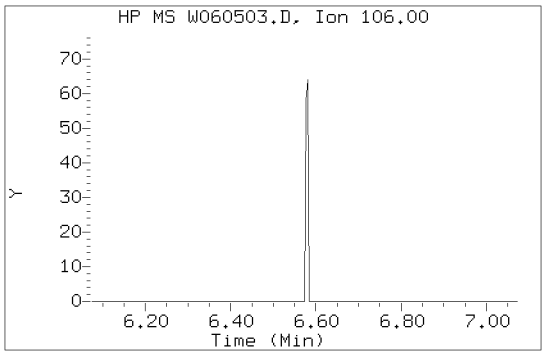
BEFORE

MASS
106
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
106
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



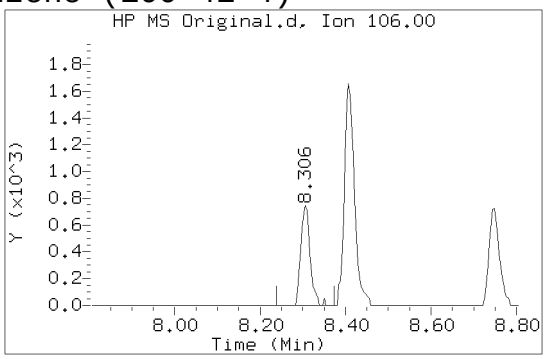
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060503.D
Inj Date : 05-JUN-2024 19:20
InstruID : VOA9.i
LabSampID : VSTD00.5

Ethylbenzene (100-41-4)

Reason Code:

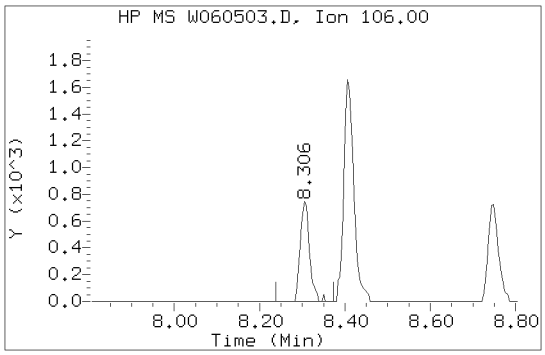
BEFORE

MASS
106
AREA
1156
HEIGHT
748
21-Jun-2024
17:11
RUCHA
PATEL



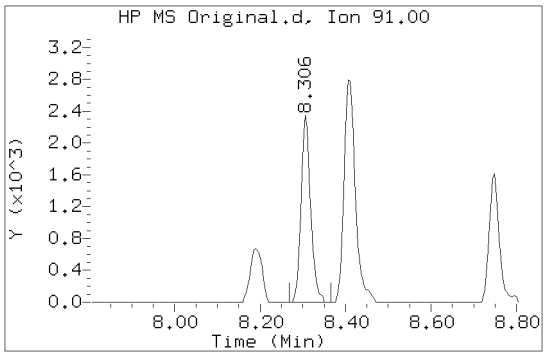
AFTER

MASS
106
AREA
1156
HEIGHT
748
21-Jun-2024
17:11
RUCHA
PATEL



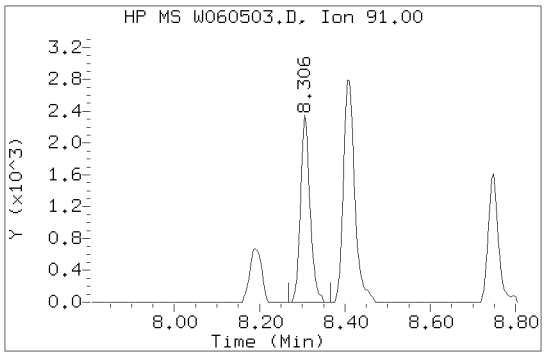
BEFORE

MASS
91
AREA
3720
HEIGHT
2354
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
91
AREA
3720
HEIGHT
2354
21-Jun-2024
17:11
RUCHA
PATEL

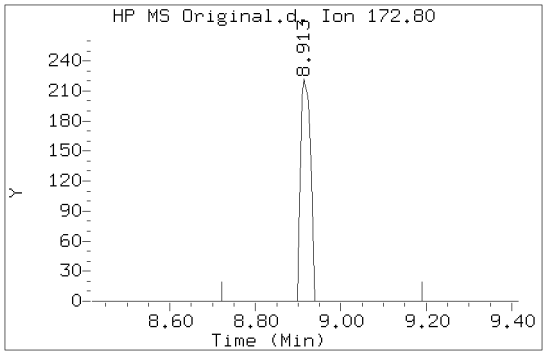


Bromoform (75-25-2)

Reason Code:

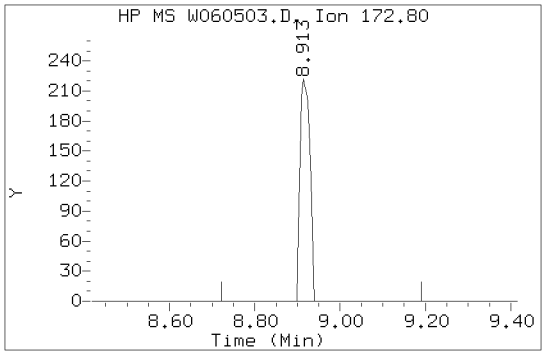
BEFORE

MASS
172.8
AREA
366
HEIGHT
222
21-Jun-2024
17:11
RUCHA
PATEL



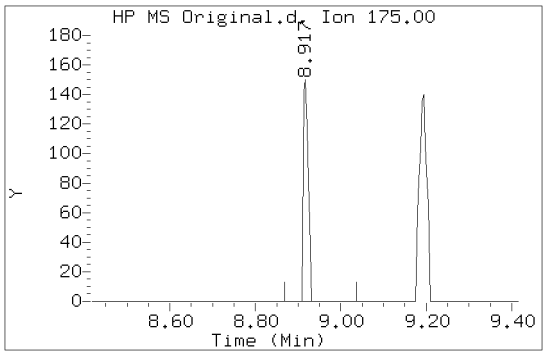
AFTER

MASS
172.8
AREA
366
HEIGHT
222
21-Jun-2024
17:11
RUCHA
PATEL



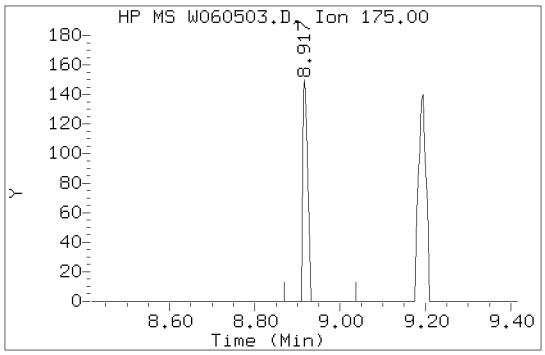
BEFORE

MASS
175
AREA
122
HEIGHT
150
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
175
AREA
122
HEIGHT
150
21-Jun-2024
17:11
RUCHA
PATEL



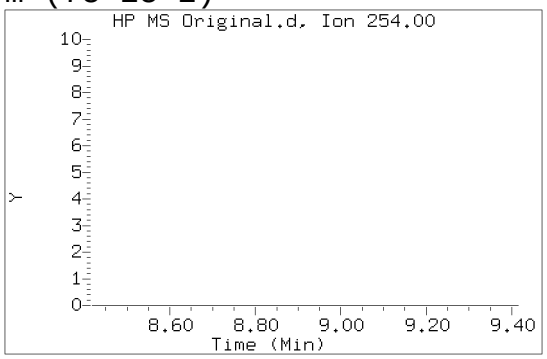
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060503.D
Inj Date : 05-JUN-2024 19:20
InstruID : VOA9.i
LabSampID : VSTD00.5

Bromoform (75-25-2)

Reason Code:

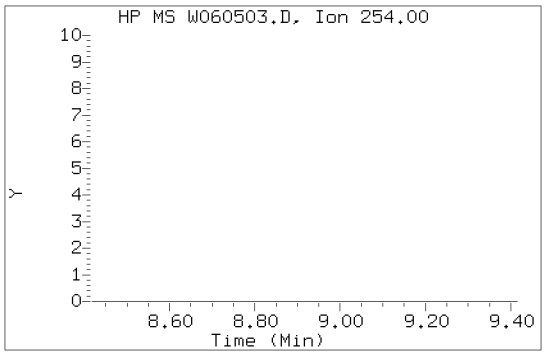
BEFORE

MASS
254
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
254
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

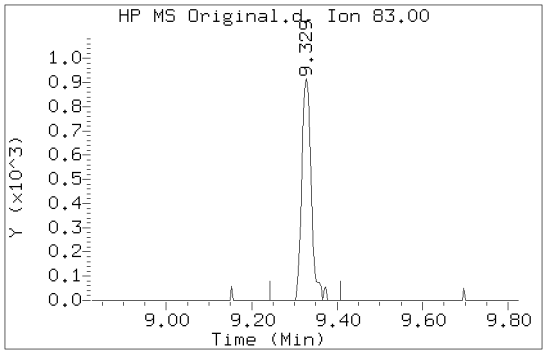


1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

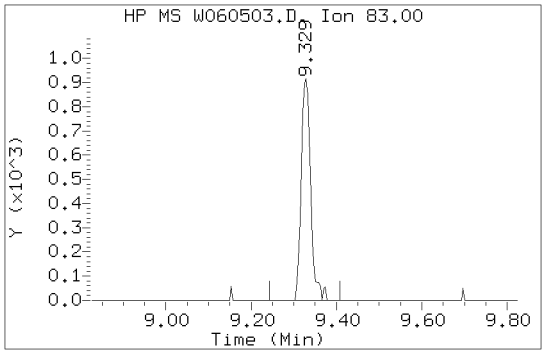
BEFORE

MASS
83
AREA
1446
HEIGHT
916
21-Jun-2024
17:11
RUCHA
PATEL



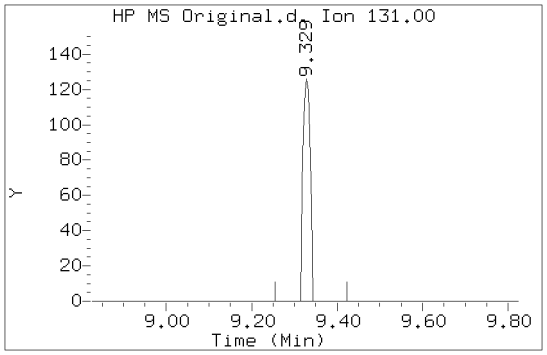
AFTER

MASS
83
AREA
1446
HEIGHT
916
21-Jun-2024
17:11
RUCHA
PATEL



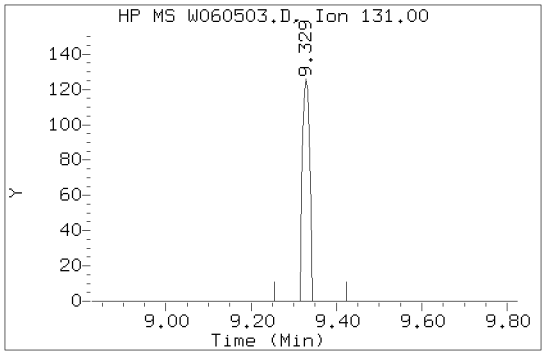
BEFORE

MASS
131
AREA
151
HEIGHT
126
21-Jun-2024
17:11
RUCHA
PATEL



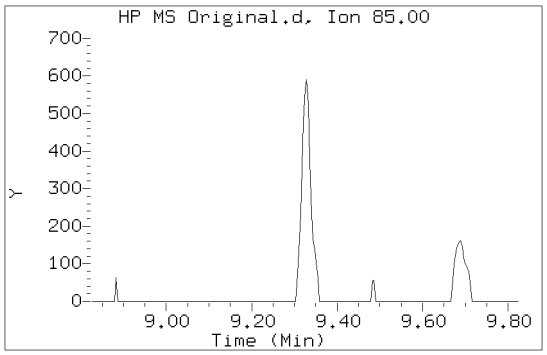
AFTER

MASS
131
AREA
151
HEIGHT
126
21-Jun-2024
17:11
RUCHA
PATEL



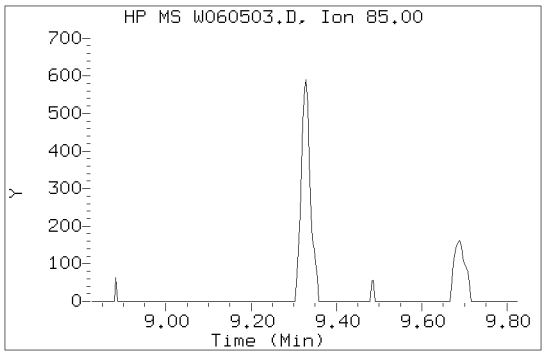
BEFORE

MASS
85
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
85
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



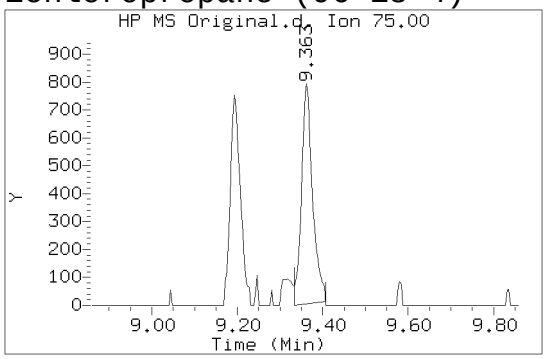
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060503.D
Inj Date : 05-JUN-2024 19:20
InstruID : VOA9.i
LabSampID : VSTD00.5

1,2,3-Trichloropropane (96-18-4)

Reason Code:

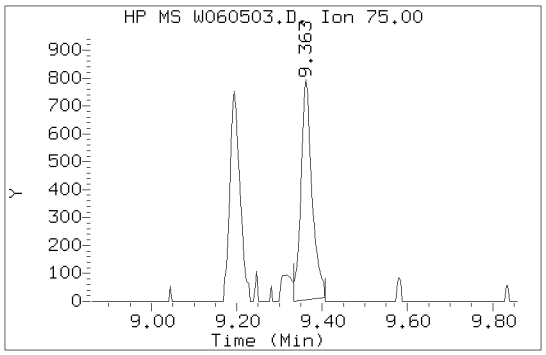
BEFORE

MASS
75
AREA
1453
HEIGHT
788
21-Jun-2024
17:11
RUCHA
PATEL



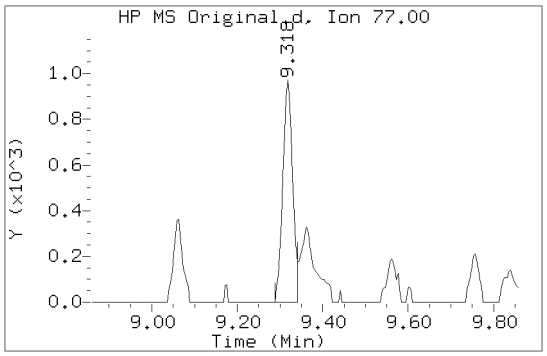
AFTER

MASS
75
AREA
1453
HEIGHT
788
21-Jun-2024
17:11
RUCHA
PATEL



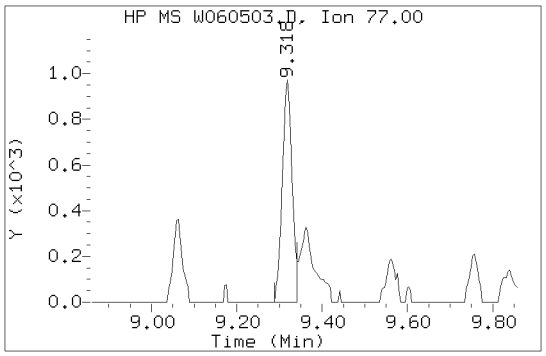
BEFORE

MASS
77
AREA
1552
HEIGHT
972
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
77
AREA
1552
HEIGHT
972
21-Jun-2024
17:11
RUCHA
PATEL

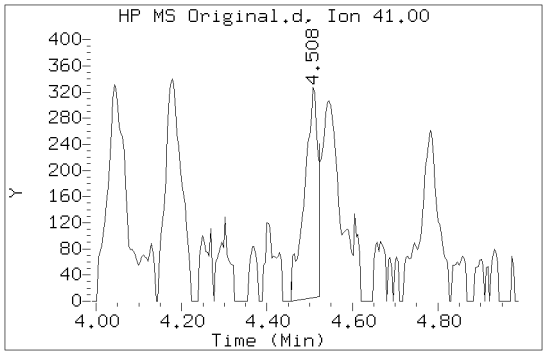


Methacrylonitrile (126-98-7)

Reason Code:

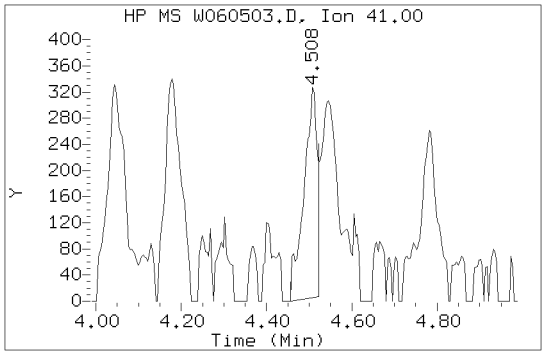
BEFORE

MASS
41
AREA
722
HEIGHT
321
21-Jun-2024
17:11
RUCHA
PATEL



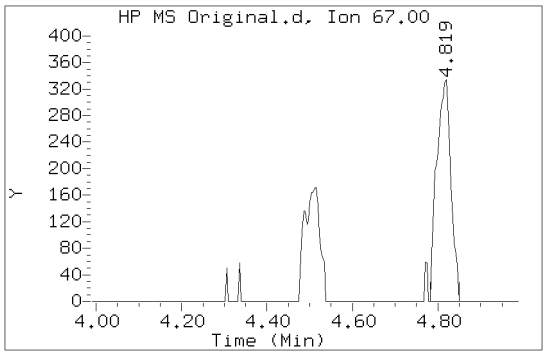
AFTER

MASS
41
AREA
722
HEIGHT
321
21-Jun-2024
17:11
RUCHA
PATEL



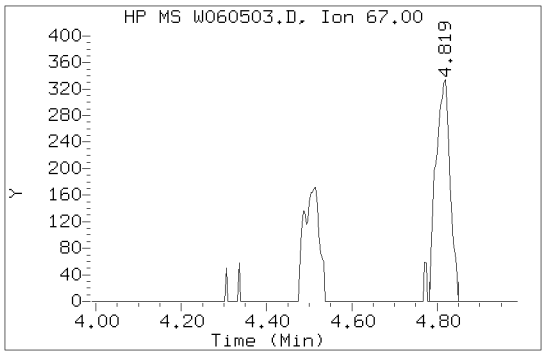
BEFORE

MASS
67
AREA
769
HEIGHT
334
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
67
AREA
769
HEIGHT
334
21-Jun-2024
17:11
RUCHA
PATEL



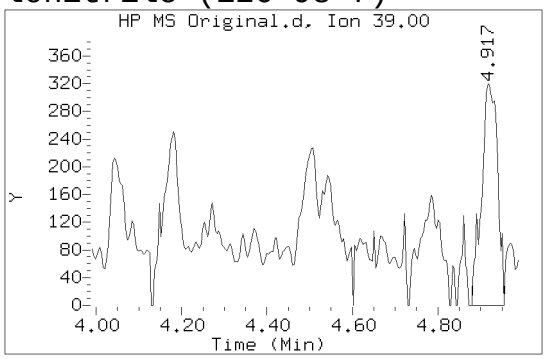
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060503.D
Inj Date : 05-JUN-2024 19:20
InstruID : VOA9.i
LabSampID : VSTD00.5

Methacrylonitrile (126-98-7)

Reason Code:

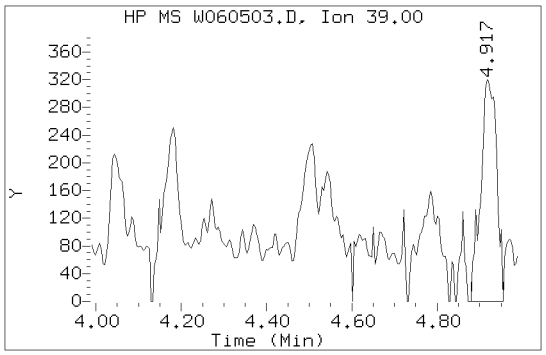
BEFORE

MASS
39
AREA
828
HEIGHT
320
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
39
AREA
828
HEIGHT
320
21-Jun-2024
17:11
RUCHA
PATEL

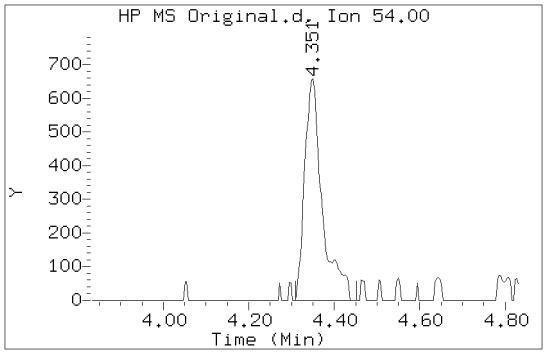


Propionitrile (107-12-0)

Reason Code:

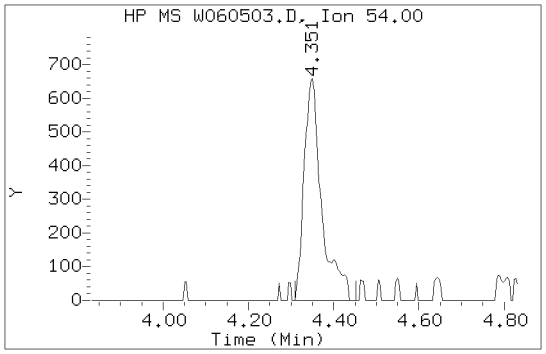
BEFORE

MASS
54
AREA
1894
HEIGHT
658
21-Jun-2024
17:11
RUCHA
PATEL



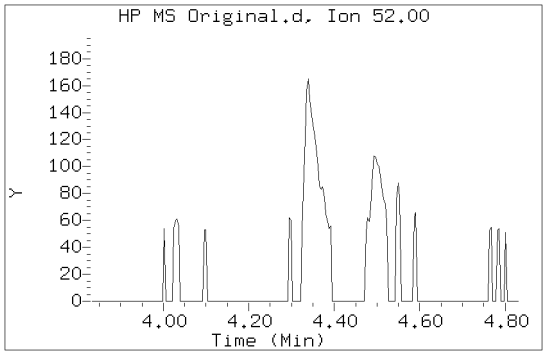
AFTER

MASS
54
AREA
1894
HEIGHT
658
21-Jun-2024
17:11
RUCHA
PATEL



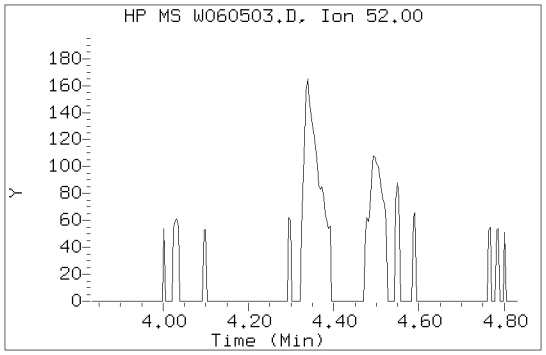
BEFORE

MASS
52
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



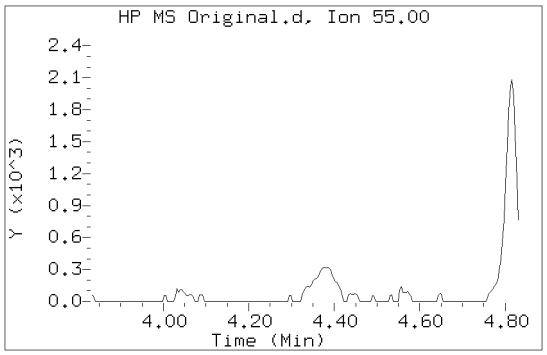
AFTER

MASS
52
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



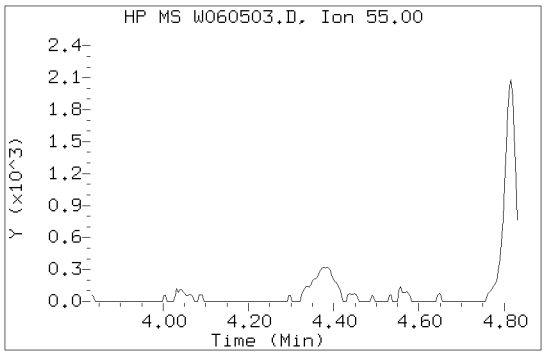
BEFORE

MASS
55
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
55
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



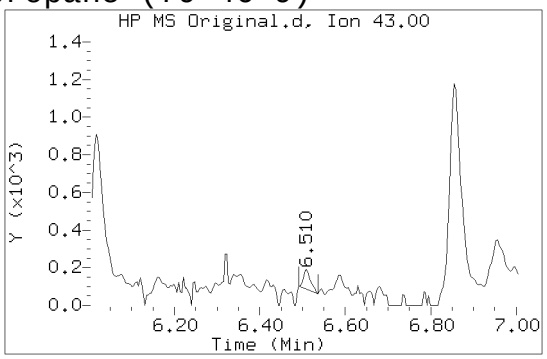
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060503.D
Inj Date : 05-JUN-2024 19:20
InstruID : VOA9.i
LabSampID : VSTD00.5

2-Nitropropane (79-46-9)

Reason Code:

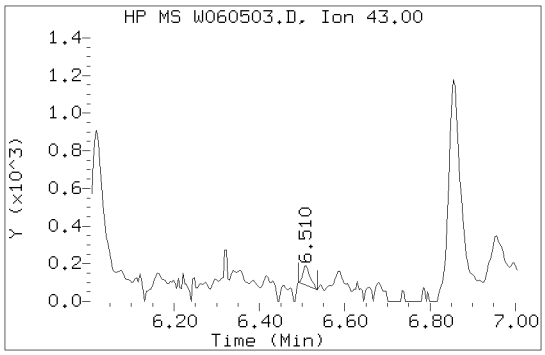
BEFORE

MASS
43
AREA
123
HEIGHT
105
21-Jun-2024
17:11
RUCHA
PATEL



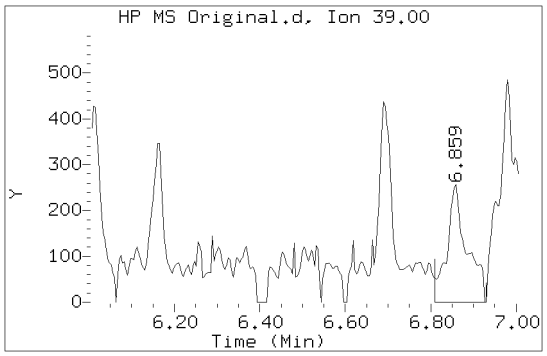
AFTER

MASS
43
AREA
123
HEIGHT
105
21-Jun-2024
17:11
RUCHA
PATEL



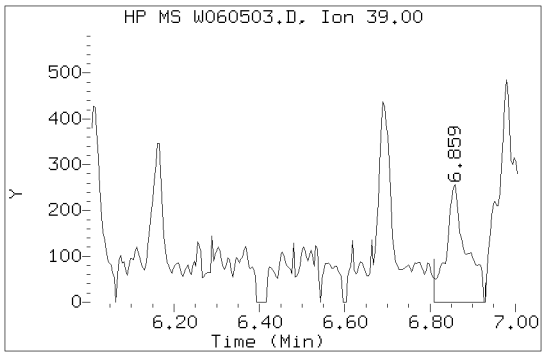
BEFORE

MASS
39
AREA
829
HEIGHT
257
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
39
AREA
829
HEIGHT
257
21-Jun-2024
17:11
RUCHA
PATEL

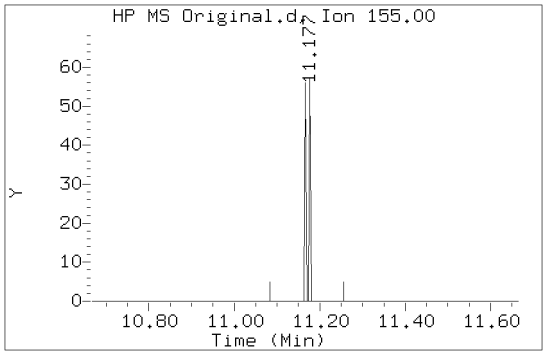


1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

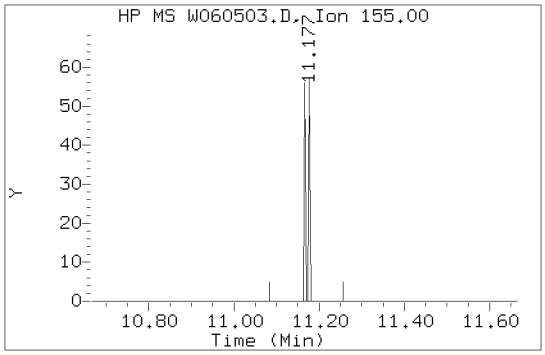
BEFORE

MASS
155
AREA
25
HEIGHT
57
21-Jun-2024
17:11
RUCHA
PATEL



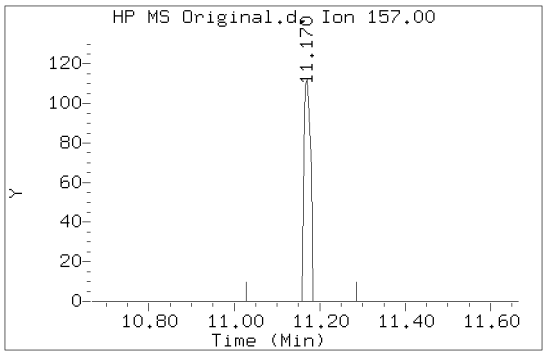
AFTER

MASS
155
AREA
25
HEIGHT
57
21-Jun-2024
17:11
RUCHA
PATEL



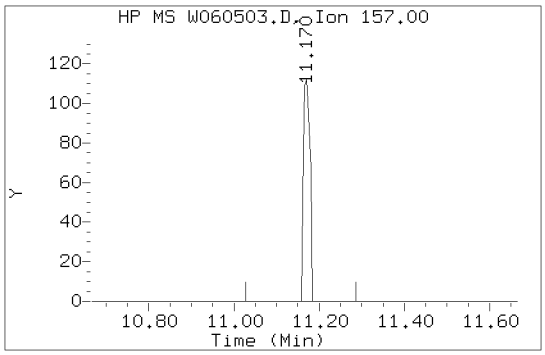
BEFORE

MASS
157
AREA
124
HEIGHT
112
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
157
AREA
124
HEIGHT
112
21-Jun-2024
17:11
RUCHA
PATEL



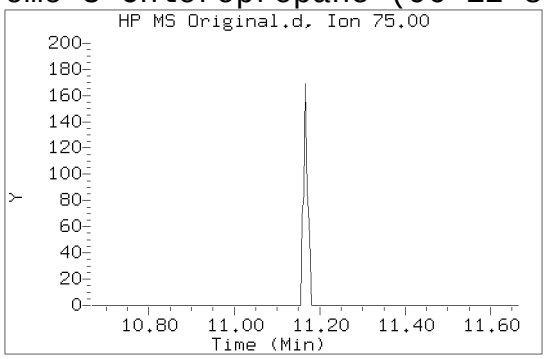
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060503.D
Inj Date : 05-JUN-2024 19:20
InstruID : VOA9.i
LabSampID : VSTD00.5

1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

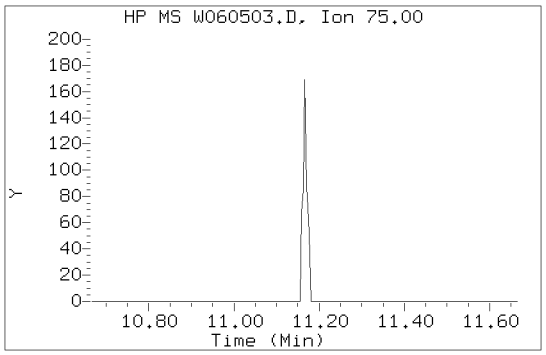
BEFORE

MASS
75
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
75
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

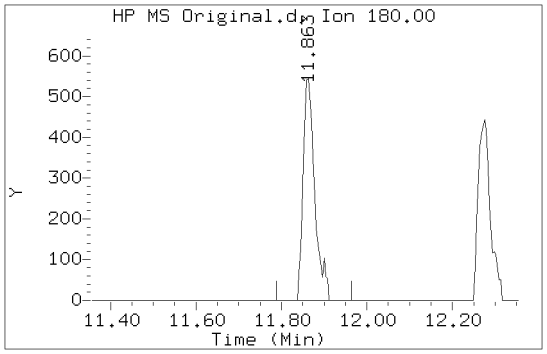


1,2,4-Trichlorobenzene (120-82-1)

Reason Code:

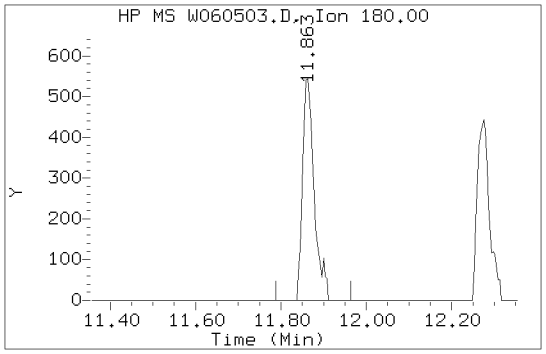
BEFORE

MASS
180
AREA
1040
HEIGHT
544
21-Jun-2024
17:11
RUCHA
PATEL



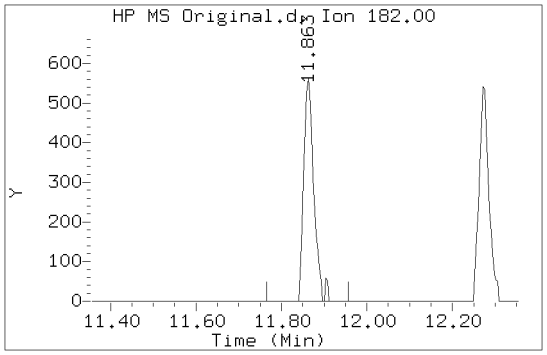
AFTER

MASS
180
AREA
1040
HEIGHT
544
21-Jun-2024
17:11
RUCHA
PATEL



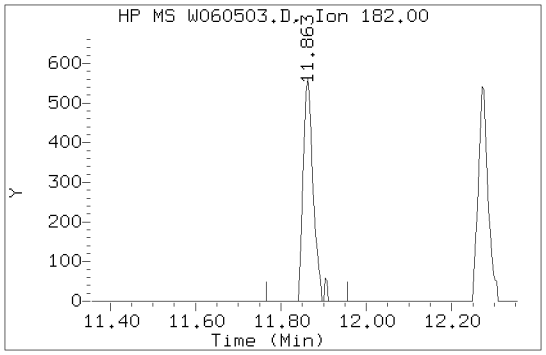
BEFORE

MASS
182
AREA
932
HEIGHT
561
21-Jun-2024
17:11
RUCHA
PATEL



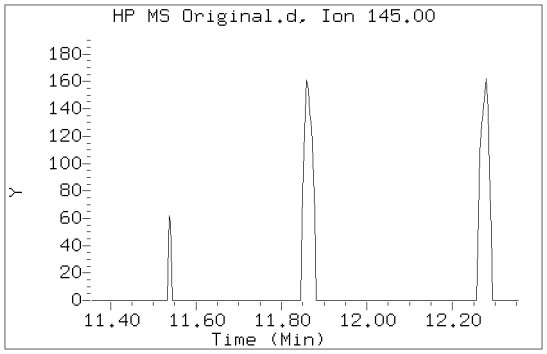
AFTER

MASS
182
AREA
932
HEIGHT
561
21-Jun-2024
17:11
RUCHA
PATEL



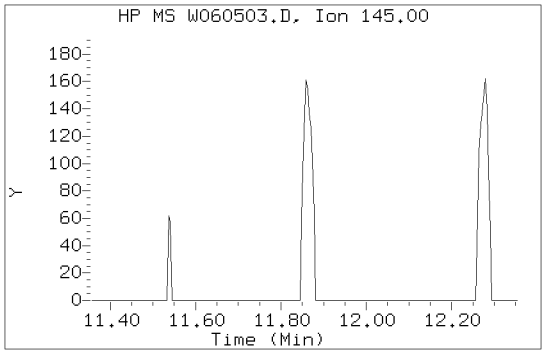
BEFORE

MASS
145
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
145
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



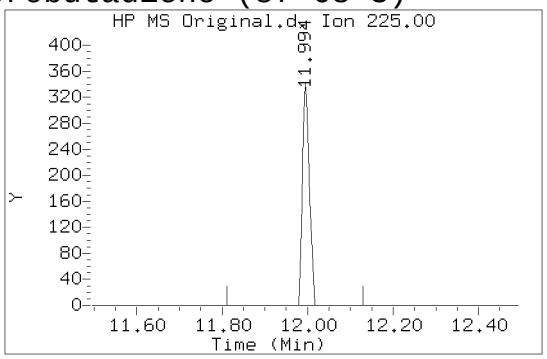
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Inj Date : 05-JUN-2024 19:20
InstruID : VOA9.i
LabSampID : VSTD00.5

Hexachlorobutadiene (87-68-3)

Reason Code:

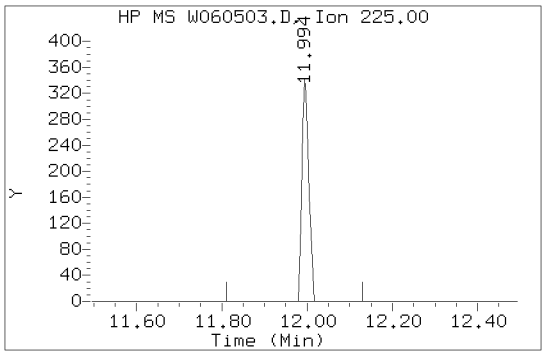
BEFORE

MASS
225
AREA
391
HEIGHT
341
21-Jun-2024
17:11
RUCHA
PATEL



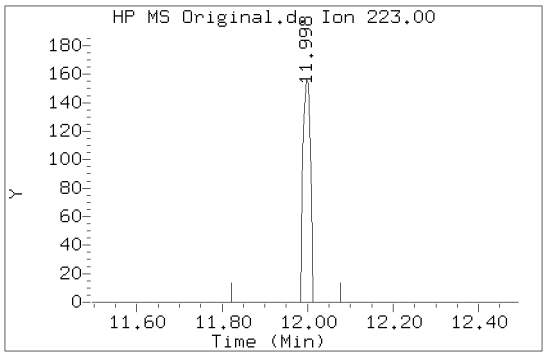
AFTER

MASS
225
AREA
391
HEIGHT
341
21-Jun-2024
17:11
RUCHA
PATEL



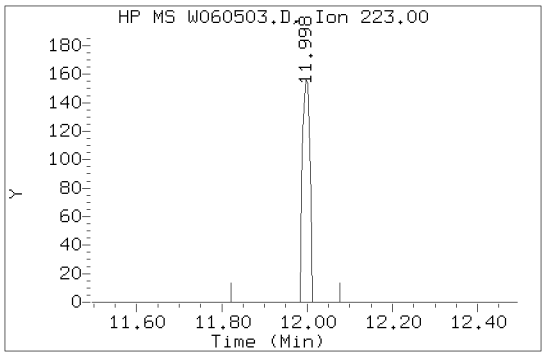
BEFORE

MASS
223
AREA
192
HEIGHT
156
21-Jun-2024
17:11
RUCHA
PATEL



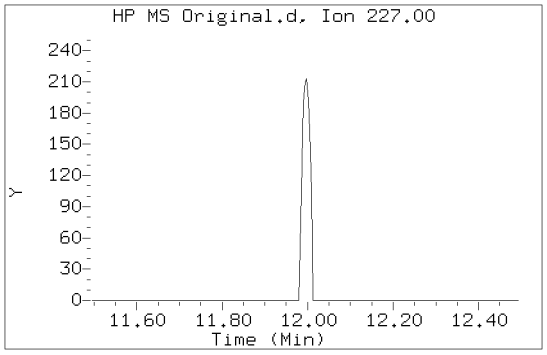
AFTER

MASS
223
AREA
192
HEIGHT
156
21-Jun-2024
17:11
RUCHA
PATEL



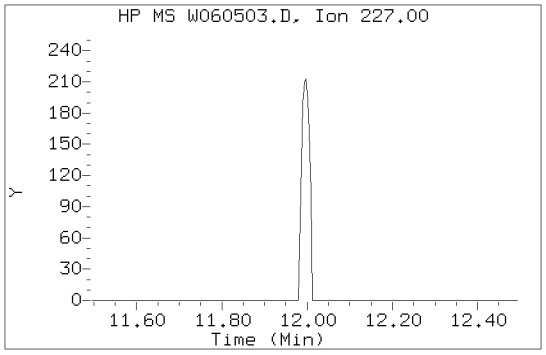
BEFORE

MASS
227
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
227
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

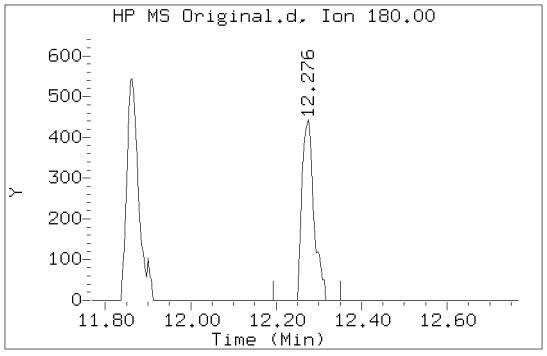


1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

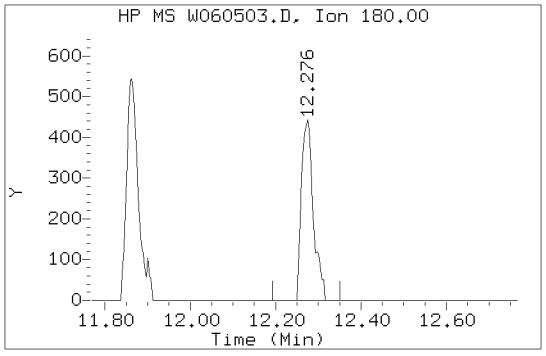
BEFORE

MASS
180
AREA
878
HEIGHT
444
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
180
AREA
878
HEIGHT
444
21-Jun-2024
17:11
RUCHA
PATEL



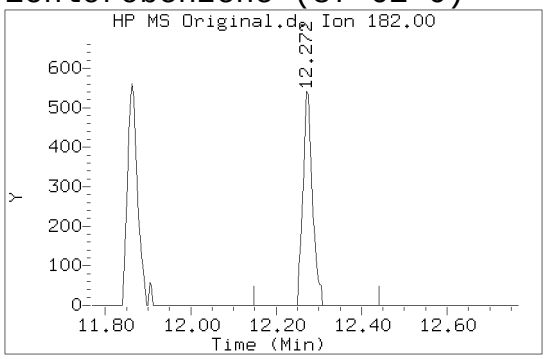
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060503.D
Inj Date : 05-JUN-2024 19:20
InstruID : VOA9.i
LabSampID : VSTD00.5

1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

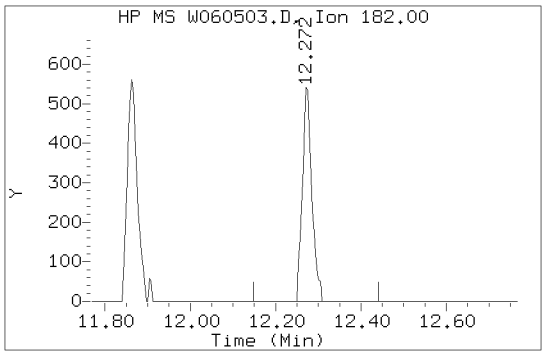
BEFORE

MASS
182
AREA
858
HEIGHT
542
21-Jun-2024
17:11
RUCHA
PATEL



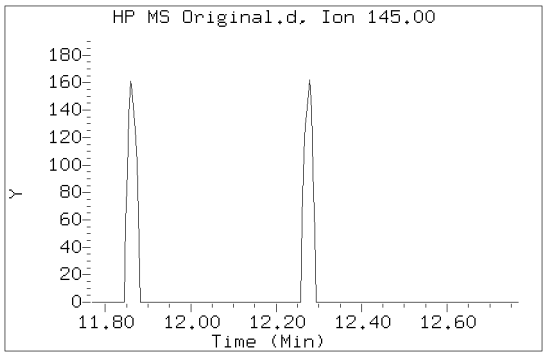
AFTER

MASS
182
AREA
858
HEIGHT
542
21-Jun-2024
17:11
RUCHA
PATEL



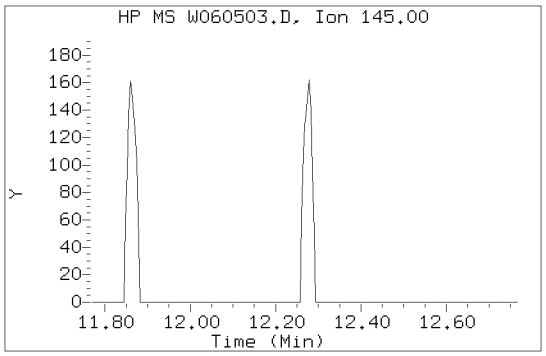
BEFORE

MASS
145
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
145
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

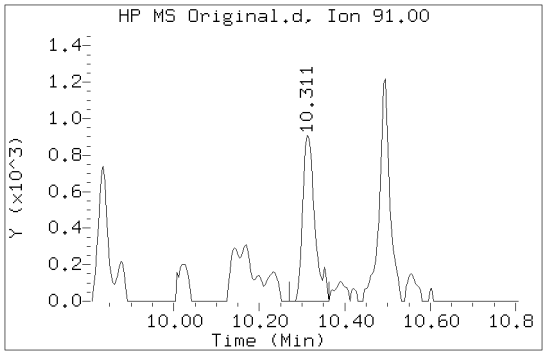


Benzyl Chloride (100-44-7)

Reason Code:

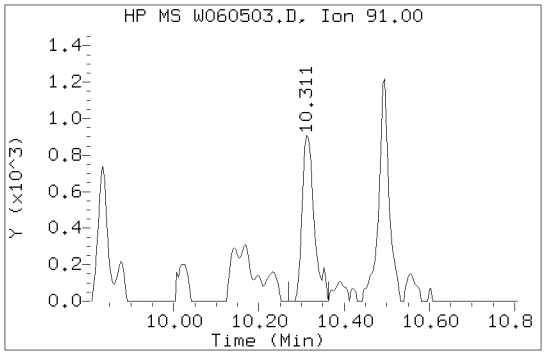
BEFORE

MASS
91
AREA
1834
HEIGHT
910
21-Jun-2024
17:11
RUCHA
PATEL



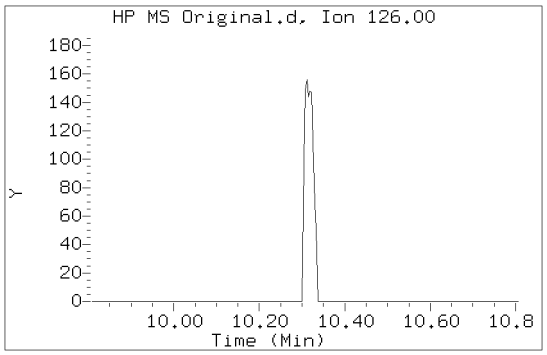
AFTER

MASS
91
AREA
1834
HEIGHT
910
21-Jun-2024
17:11
RUCHA
PATEL



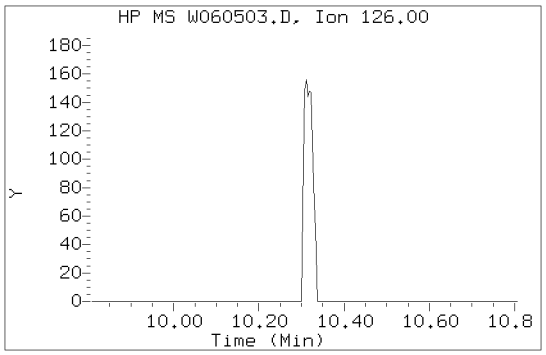
BEFORE

MASS
126
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
126
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



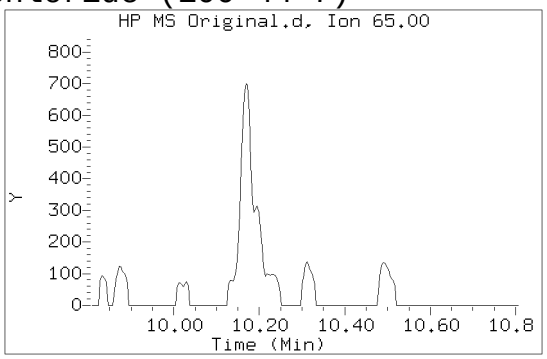
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060503.D
Inj Date : 05-JUN-2024 19:20
InstruID : VOA9.i
LabSampID : VSTD00.5

Benzyl Chloride (100-44-7)

Reason Code:

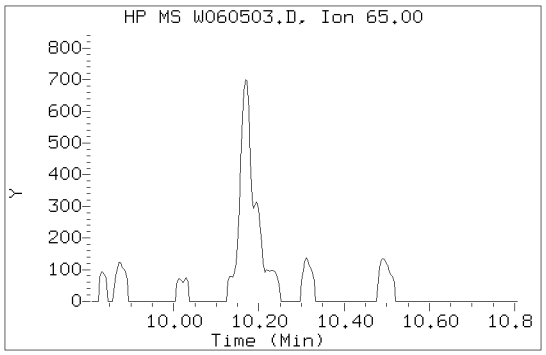
BEFORE

MASS
65
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
65
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

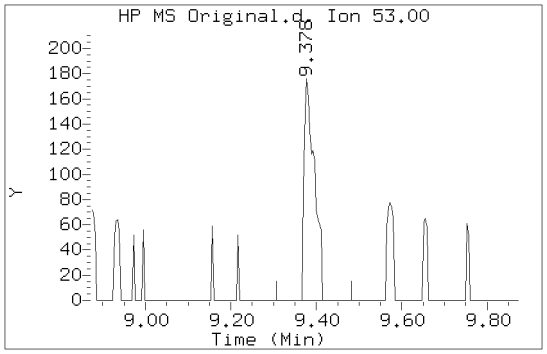


trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

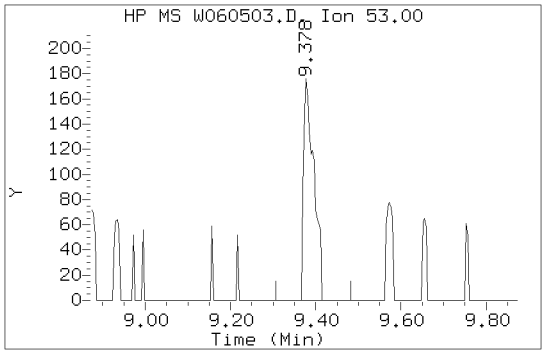
BEFORE

MASS
53
AREA
294
HEIGHT
176
21-Jun-2024
17:11
RUCHA
PATEL



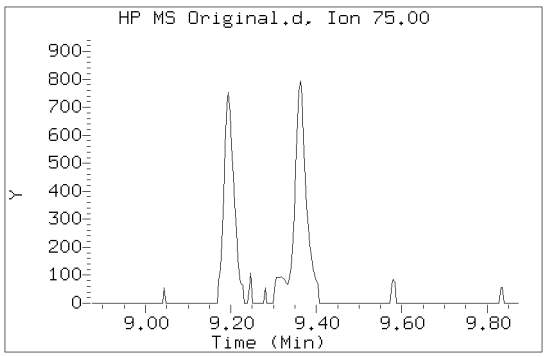
AFTER

MASS
53
AREA
294
HEIGHT
176
21-Jun-2024
17:11
RUCHA
PATEL



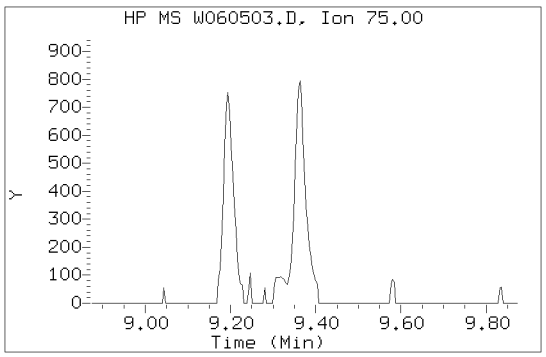
BEFORE

MASS
75
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
75
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

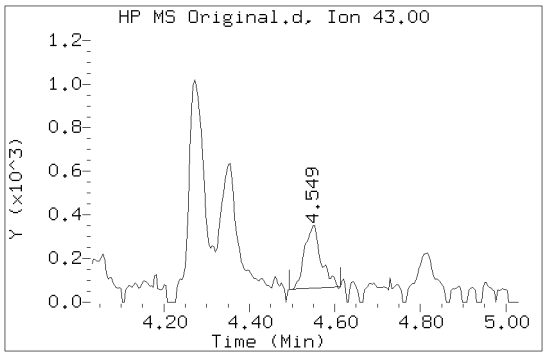


Ethyl Acetate (141-78-6)

Reason Code:

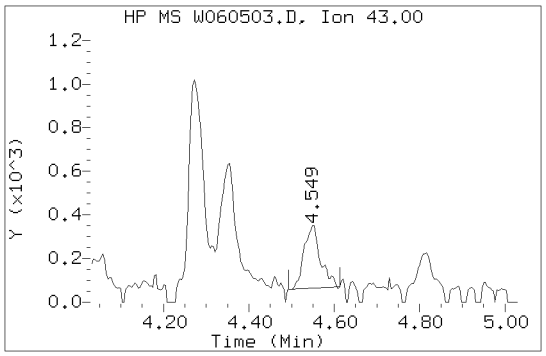
BEFORE

MASS
43
AREA
776
HEIGHT
285
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
43
AREA
776
HEIGHT
285
21-Jun-2024
17:11
RUCHA
PATEL



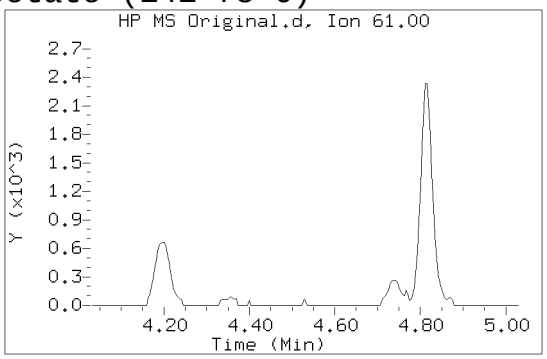
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060503.D
Inj Date : 05-JUN-2024 19:20
InstruID : VOA9.i
LabSampID : VSTD00.5

Ethyl Acetate (141-78-6)

Reason Code:

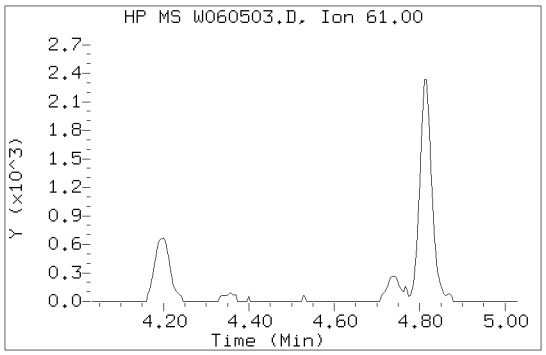
BEFORE

MASS
61
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



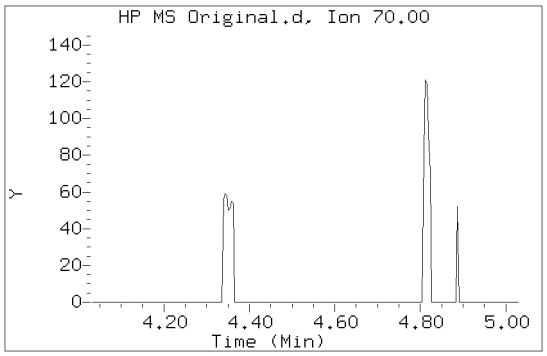
AFTER

MASS
61
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



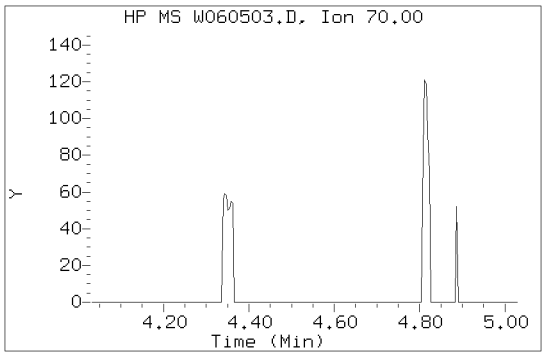
BEFORE

MASS
70
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
70
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

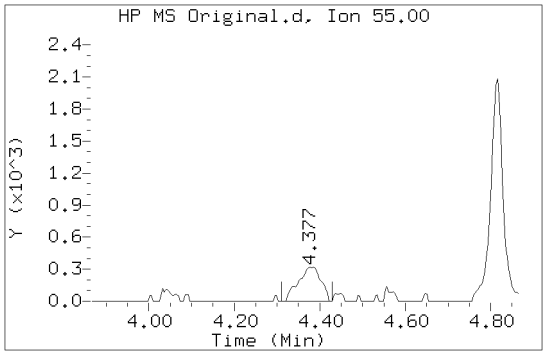


Methyl Acrylate (96-33-3)

Reason Code:

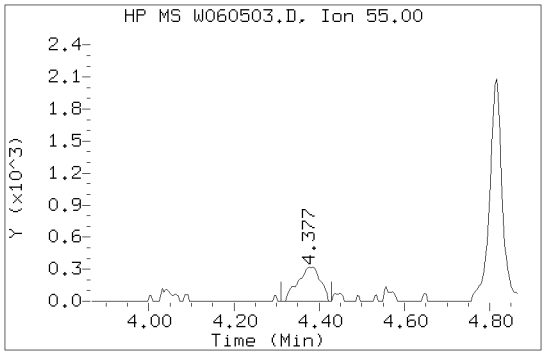
BEFORE

MASS
55
AREA
1181
HEIGHT
319
21-Jun-2024
17:11
RUCHA
PATEL



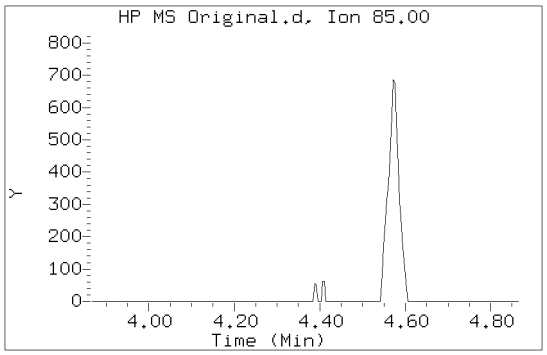
AFTER

MASS
55
AREA
1181
HEIGHT
319
21-Jun-2024
17:11
RUCHA
PATEL



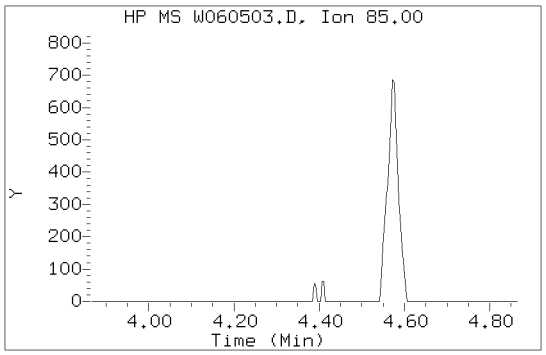
BEFORE

MASS
85
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
85
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



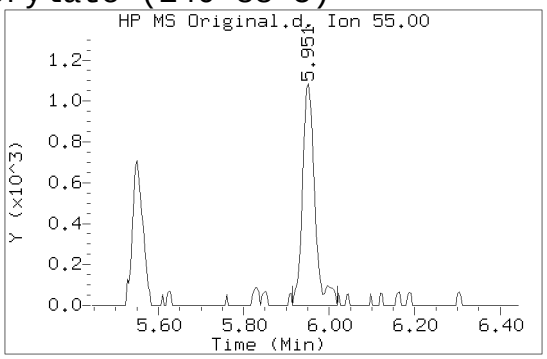
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060503.D
Inj Date : 05-JUN-2024 19:20
InstruID : VOA9.i
LabSampID : VSTD00.5

Ethyl Acrylate (140-88-5)

Reason Code:

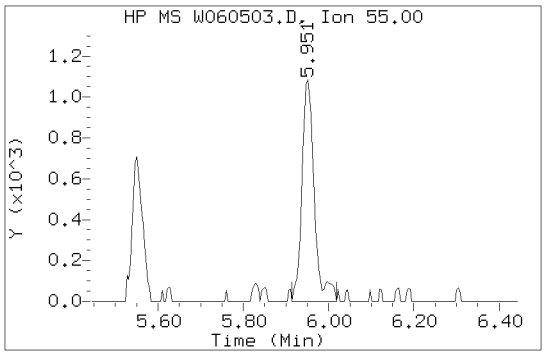
BEFORE

MASS
55
AREA
2201
HEIGHT
1085
21-Jun-2024
17:11
RUCHA
PATEL



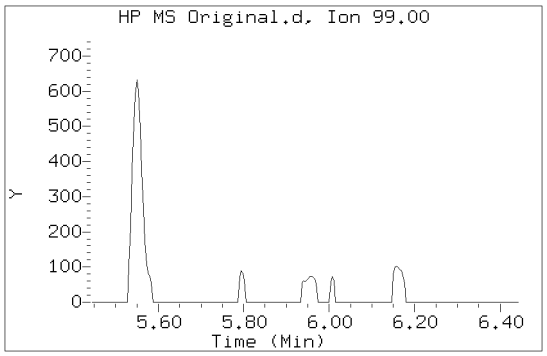
AFTER

MASS
55
AREA
2201
HEIGHT
1085
21-Jun-2024
17:11
RUCHA
PATEL



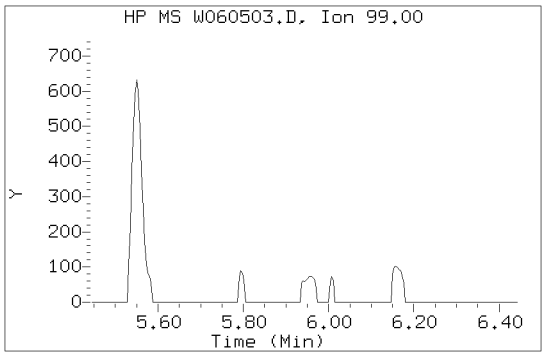
BEFORE

MASS
99
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
99
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

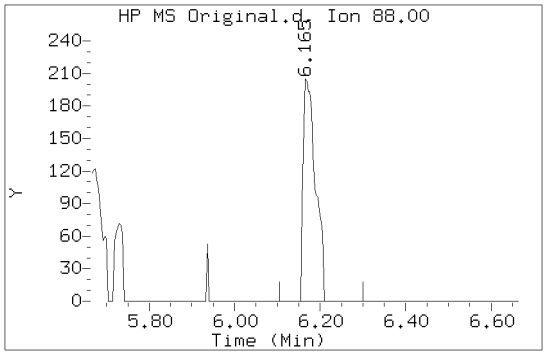


1,4-Dioxane ()

Reason Code:

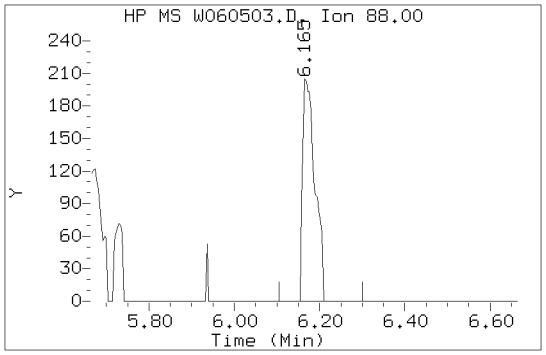
BEFORE

MASS
88
AREA
421
HEIGHT
205
21-Jun-2024
17:11
RUCHA
PATEL



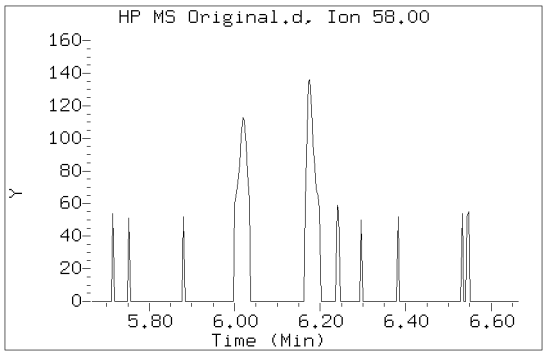
AFTER

MASS
88
AREA
421
HEIGHT
205
21-Jun-2024
17:11
RUCHA
PATEL



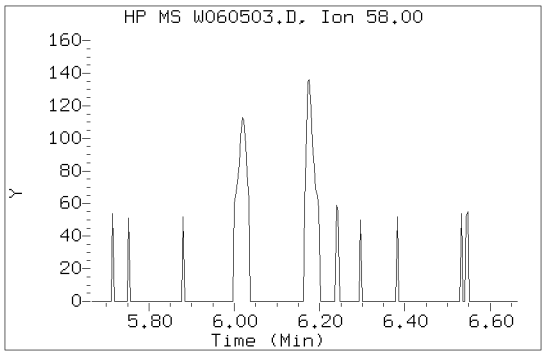
BEFORE

MASS
58
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
58
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



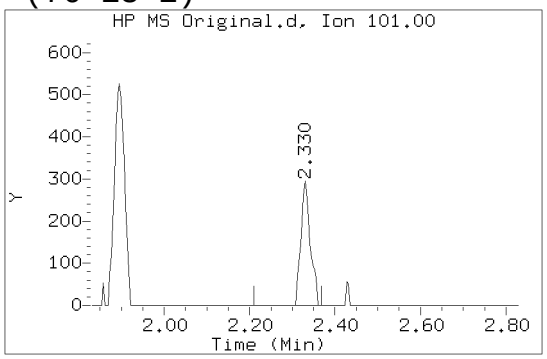
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060503.D
Inj Date : 05-JUN-2024 19:20
InstruID : VOA9.i
LabSampID : VSTD00.5

Freon TF (76-13-1)

Reason Code:

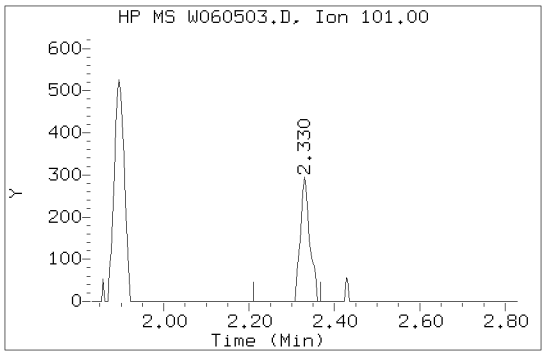
BEFORE

MASS
101
AREA
460
HEIGHT
295
21-Jun-2024
17:11
RUCHA
PATEL



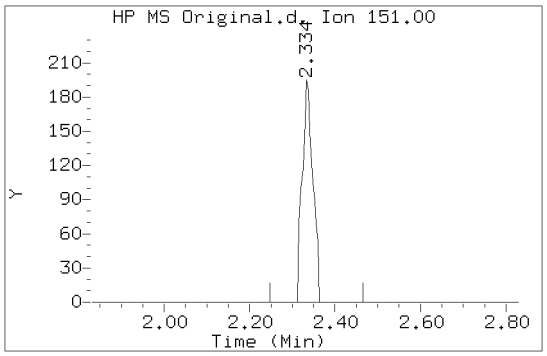
AFTER

MASS
101
AREA
460
HEIGHT
295
21-Jun-2024
17:11
RUCHA
PATEL



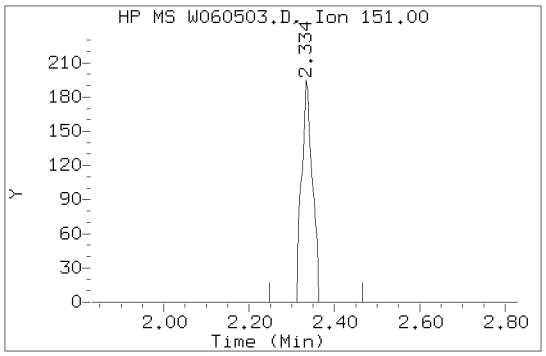
BEFORE

MASS
151
AREA
342
HEIGHT
195
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
151
AREA
342
HEIGHT
195
21-Jun-2024
17:11
RUCHA
PATEL

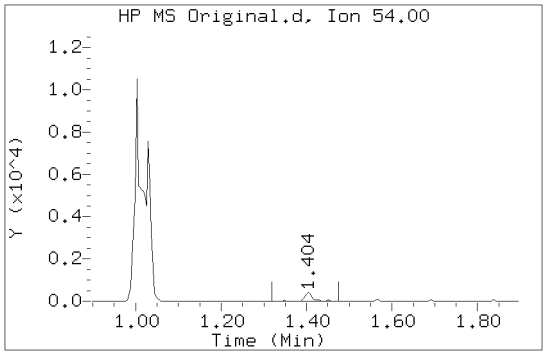


1,3-Butadiene (106-99-0)

Reason Code:

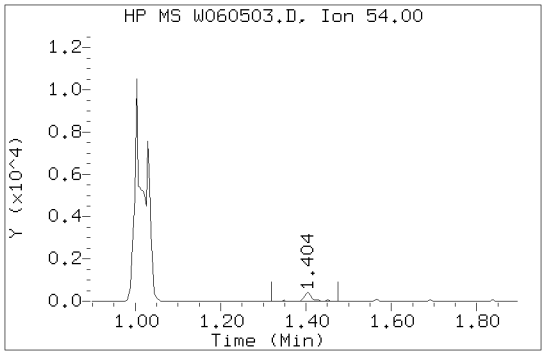
BEFORE

MASS
54
AREA
546
HEIGHT
413
21-Jun-2024
17:11
RUCHA
PATEL



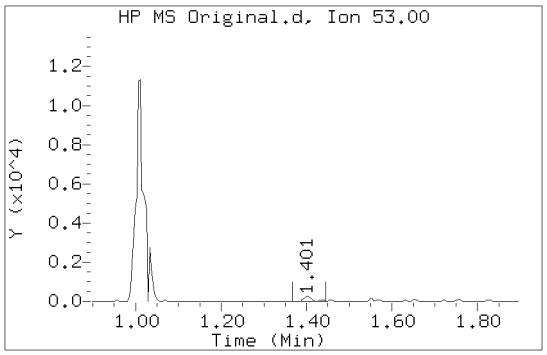
AFTER

MASS
54
AREA
546
HEIGHT
413
21-Jun-2024
17:11
RUCHA
PATEL



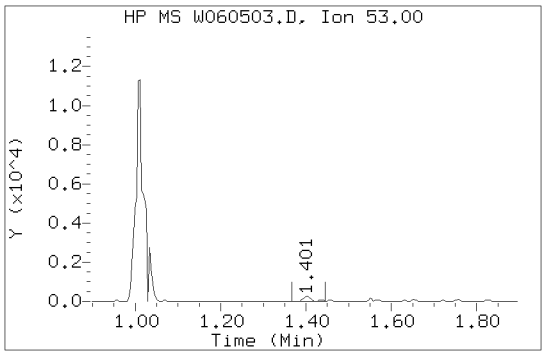
BEFORE

MASS
53
AREA
356
HEIGHT
258
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
53
AREA
356
HEIGHT
258
21-Jun-2024
17:11
RUCHA
PATEL



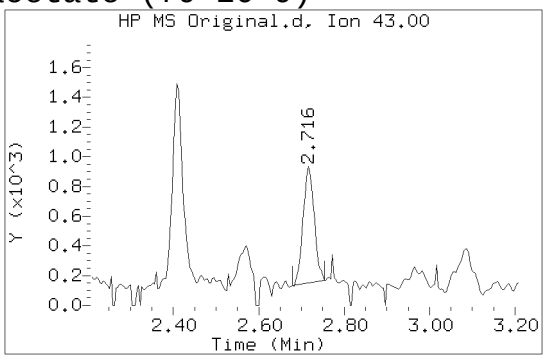
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060503.D
Inj Date : 05-JUN-2024 19:20
InstruID : VOA9.i
LabSampID : VSTD00.5

Methyl acetate (79-20-9)

Reason Code:

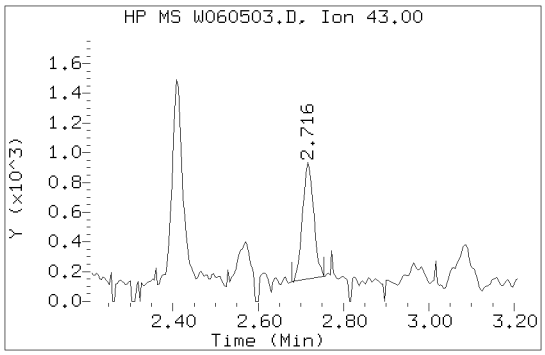
BEFORE

MASS
43
AREA
1420
HEIGHT
784
21-Jun-2024
17:11
RUCHA
PATEL



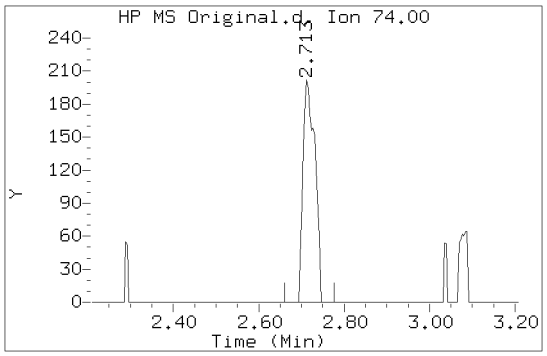
AFTER

MASS
43
AREA
1420
HEIGHT
784
21-Jun-2024
17:11
RUCHA
PATEL



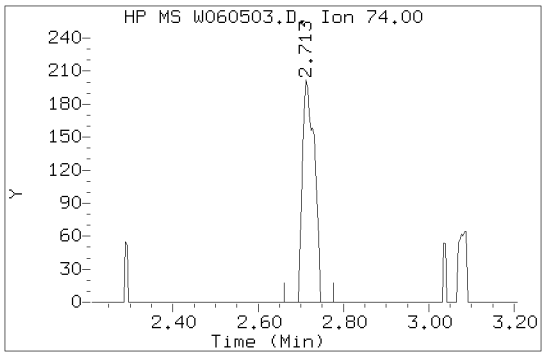
BEFORE

MASS
74
AREA
397
HEIGHT
202
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
74
AREA
397
HEIGHT
202
21-Jun-2024
17:11
RUCHA
PATEL

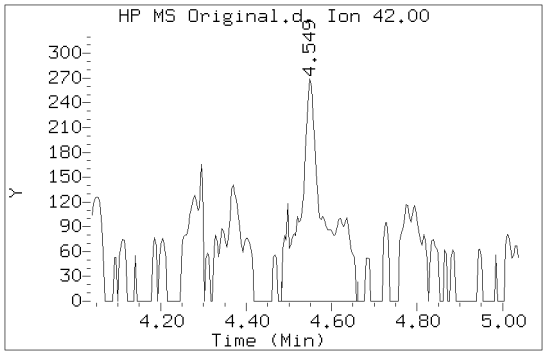


Tetrahydrofuran (109-99-9)

Reason Code:

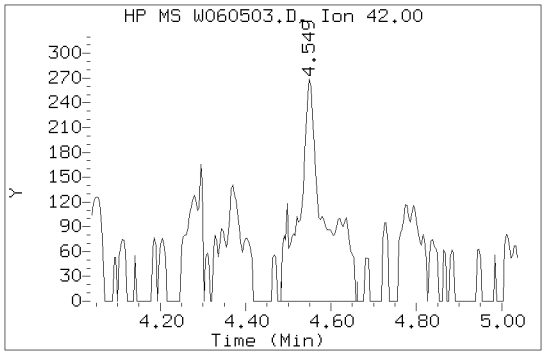
BEFORE

MASS
42
AREA
1151
HEIGHT
269
21-Jun-2024
17:11
RUCHA
PATEL



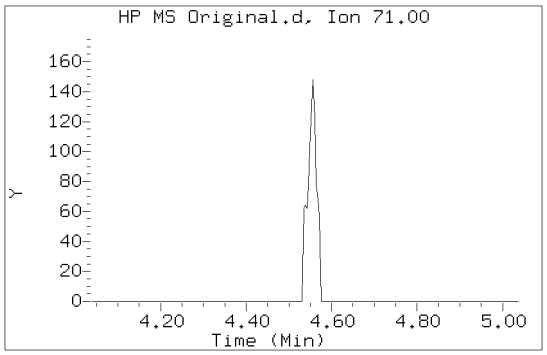
AFTER

MASS
42
AREA
1151
HEIGHT
269
21-Jun-2024
17:11
RUCHA
PATEL



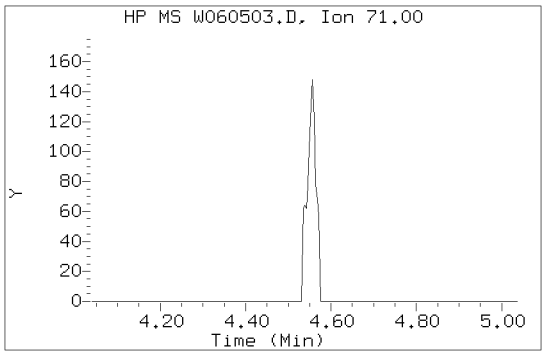
BEFORE

MASS
71
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
71
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



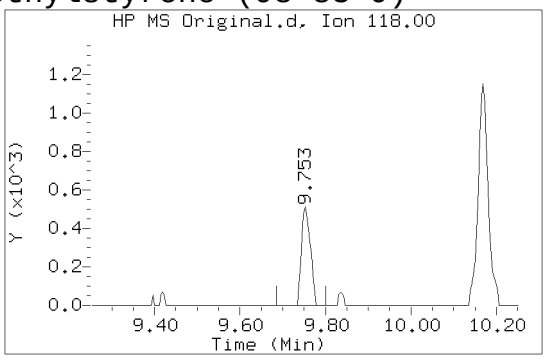
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060503.D
Inj Date : 05-JUN-2024 19:20
InstruID : VOA9.i
LabSampID : VSTD00.5

alpha-Methylstyrene (98-83-9)

Reason Code:

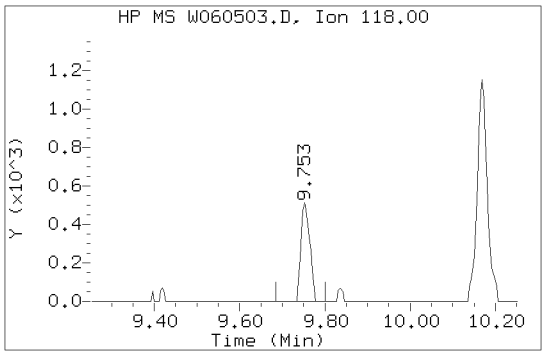
BEFORE

MASS
118
AREA
758
HEIGHT
512
21-Jun-2024
17:11
RUCHA
PATEL



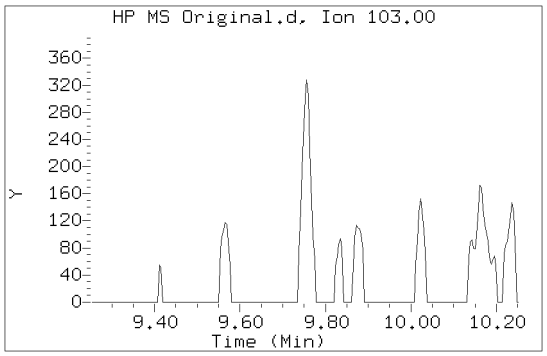
AFTER

MASS
118
AREA
758
HEIGHT
512
21-Jun-2024
17:11
RUCHA
PATEL



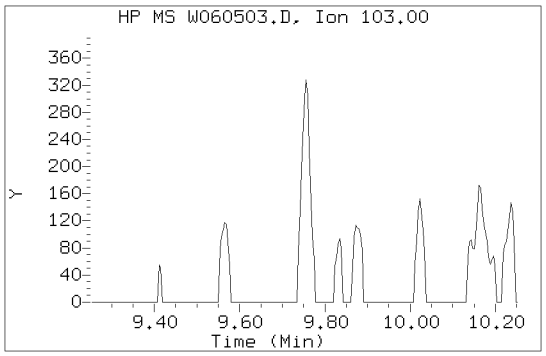
BEFORE

MASS
103
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
103
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

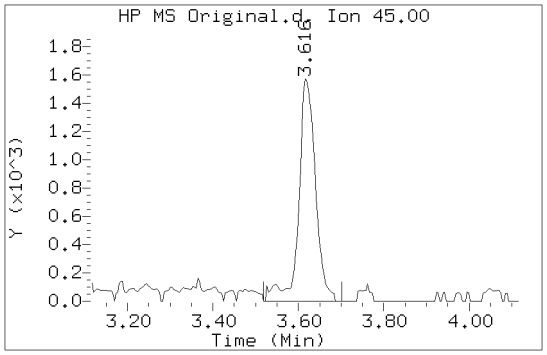


Diisopropyl ether (108-20-3)

Reason Code:

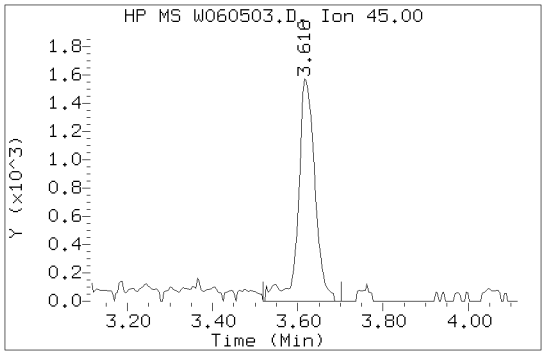
BEFORE

MASS
45
AREA
4355
HEIGHT
1573
21-Jun-2024
17:11
RUCHA
PATEL



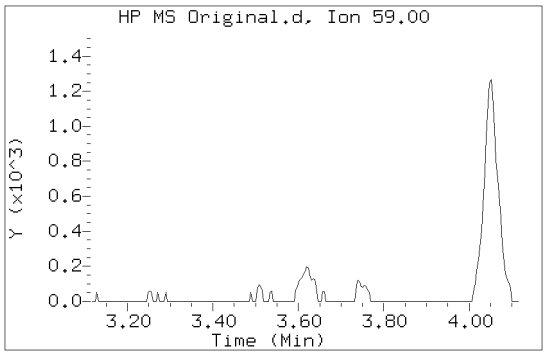
AFTER

MASS
45
AREA
4355
HEIGHT
1573
21-Jun-2024
17:11
RUCHA
PATEL



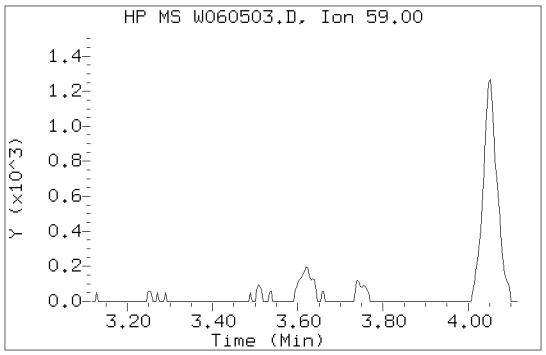
BEFORE

MASS
59
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
59
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



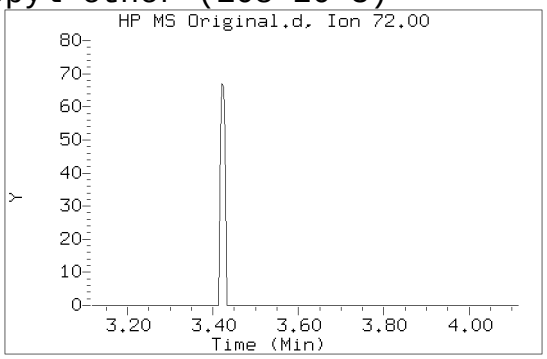
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060503.D
Inj Date : 05-JUN-2024 19:20
InstruID : VOA9.i
LabSampID : VSTD00.5

Diisopropyl ether (108-20-3)

Reason Code:

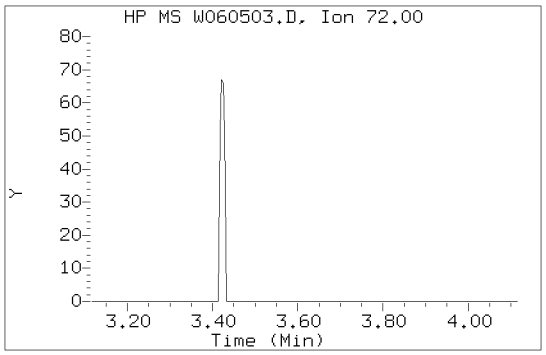
BEFORE

MASS
72
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
72
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

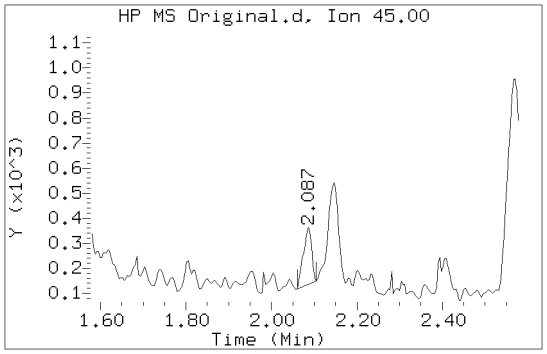


Ethanol (64-17-5)

Reason Code:

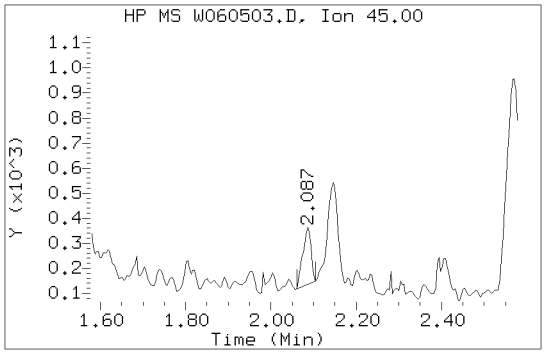
BEFORE

MASS
45
AREA
312
HEIGHT
228
21-Jun-2024
17:11
RUCHA
PATEL



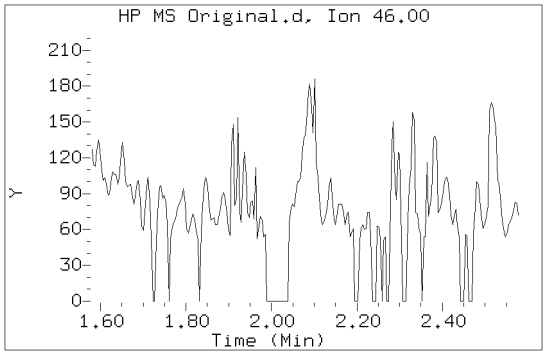
AFTER

MASS
45
AREA
312
HEIGHT
228
21-Jun-2024
17:11
RUCHA
PATEL



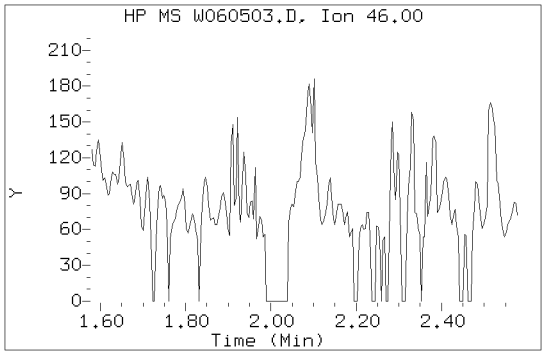
BEFORE

MASS
46
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



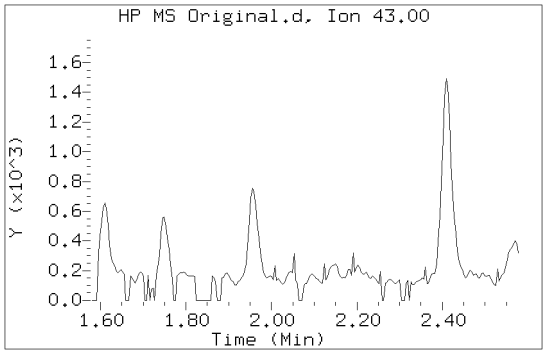
AFTER

MASS
46
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



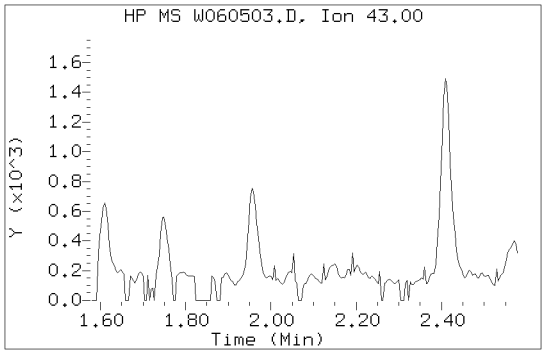
BEFORE

MASS
43
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
43
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



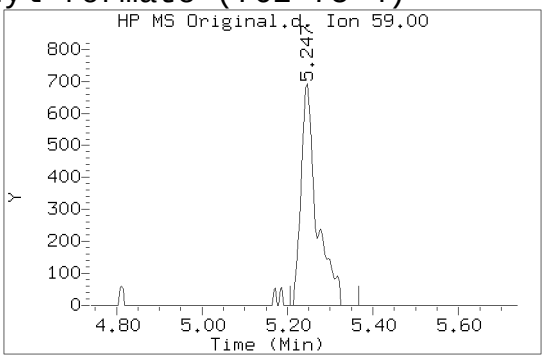
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060503.D
Inj Date : 05-JUN-2024 19:20
InstruID : VOA9.i
LabSampID : VSTD00.5

tert-Butyl formate (762-75-4)

Reason Code:

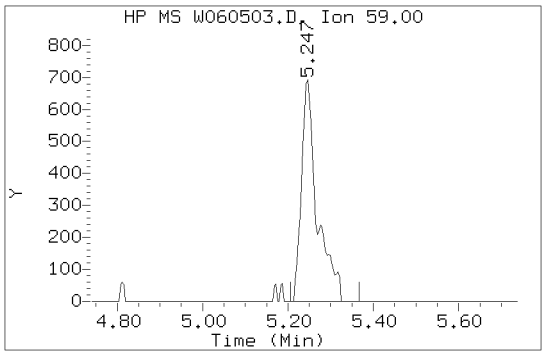
BEFORE

MASS
59
AREA
1788
HEIGHT
693
21-Jun-2024
17:11
RUCHA
PATEL



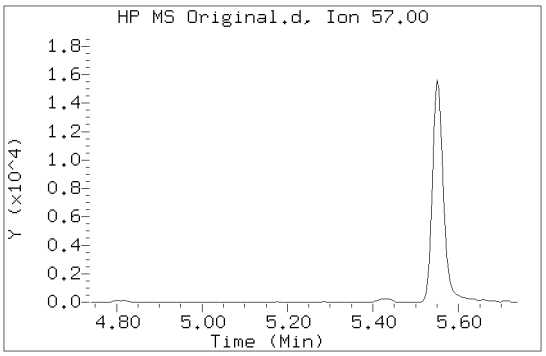
AFTER

MASS
59
AREA
1788
HEIGHT
693
21-Jun-2024
17:11
RUCHA
PATEL



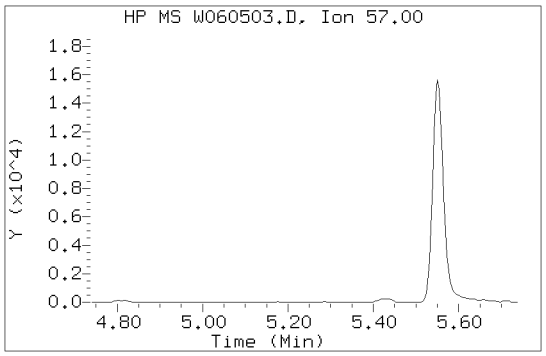
BEFORE

MASS
57
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



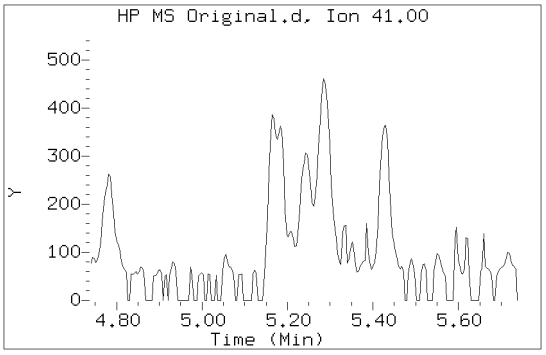
AFTER

MASS
57
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



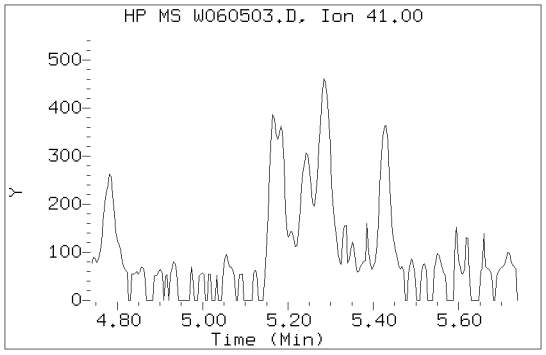
BEFORE

MASS
41
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
41
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

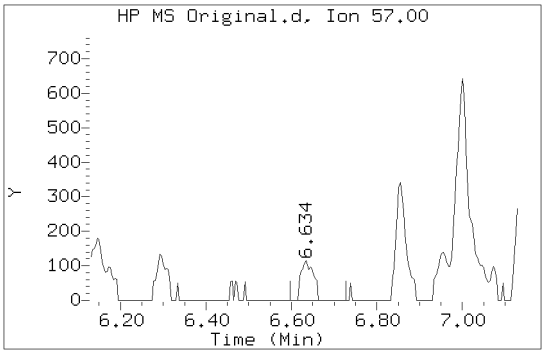


Epichlorohydrin (106-89-8)

Reason Code:

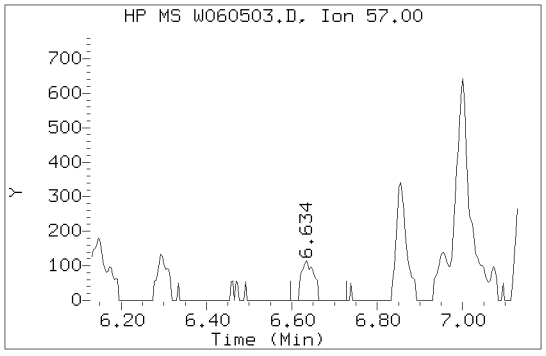
BEFORE

MASS
57
AREA
232
HEIGHT
115
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
57
AREA
232
HEIGHT
115
21-Jun-2024
17:11
RUCHA
PATEL

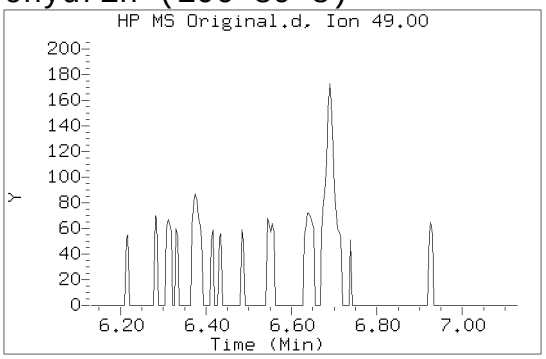


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060503.D
Inj Date : 05-JUN-2024 19:20
InstruID : VOA9.i
LabSampID : VSTD00.5

Epichlorohydrin (106-89-8)

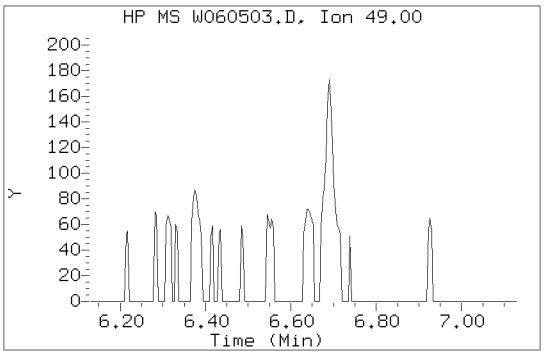
BEFORE

MASS
49
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
49
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

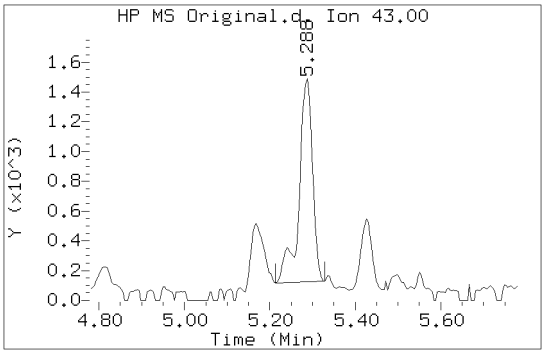


Reason Code:

Isopropyl acetate (108-21-4)

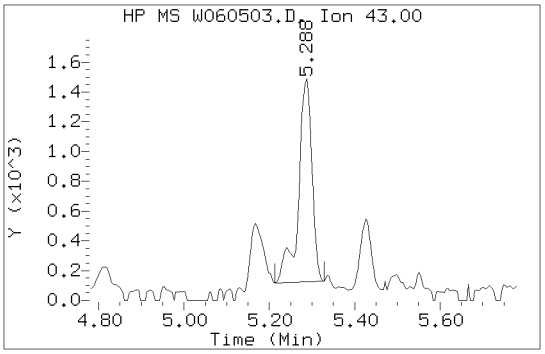
BEFORE

MASS
43
AREA
3037
HEIGHT
1365
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

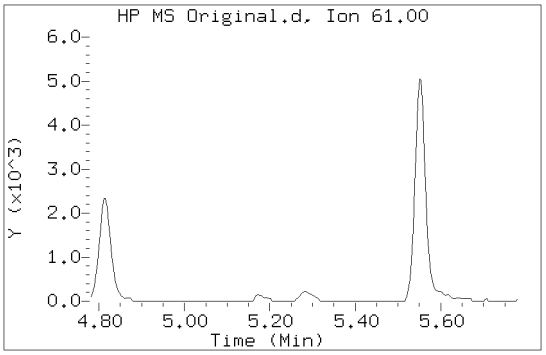
MASS
43
AREA
3037
HEIGHT
1365
21-Jun-2024
17:11
RUCHA
PATEL



Reason Code:

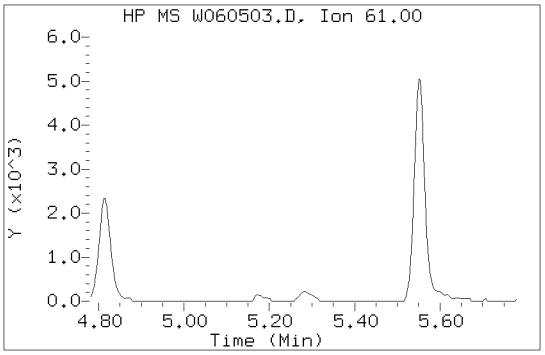
BEFORE

MASS
61
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
61
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

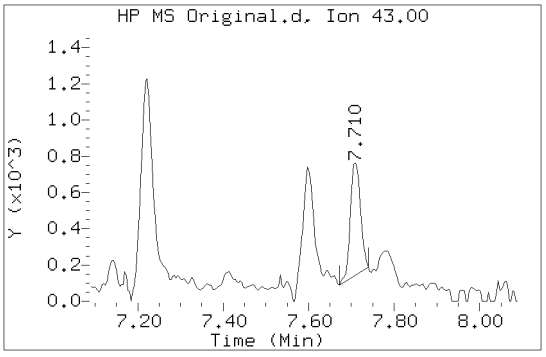


Reason Code:

n-Butyl acetate (123-86-4)

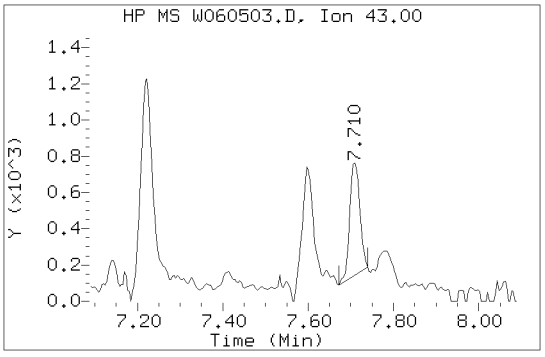
BEFORE

MASS
43
AREA
1029
HEIGHT
621
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
43
AREA
1029
HEIGHT
621
21-Jun-2024
17:11
RUCHA
PATEL



Reason Code:

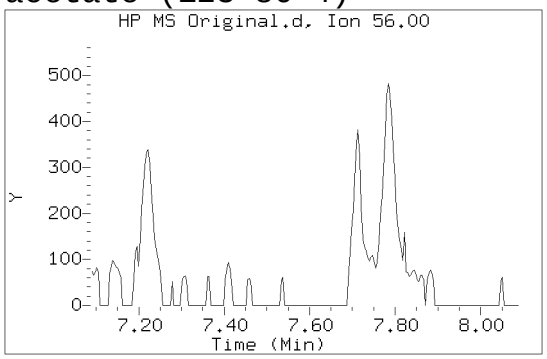
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060503.D
Inj Date : 05-JUN-2024 19:20
InstruID : VOA9.i
LabSampID : VSTD00.5

n-Butyl acetate (123-86-4)

Reason Code:

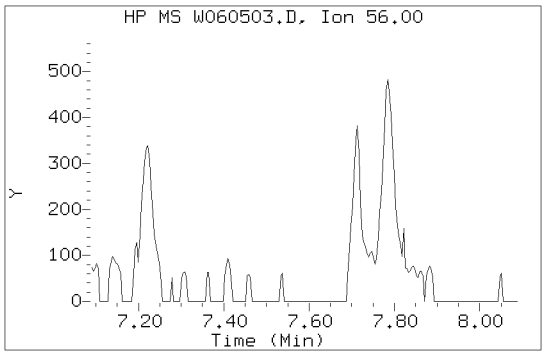
BEFORE

MASS
56
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



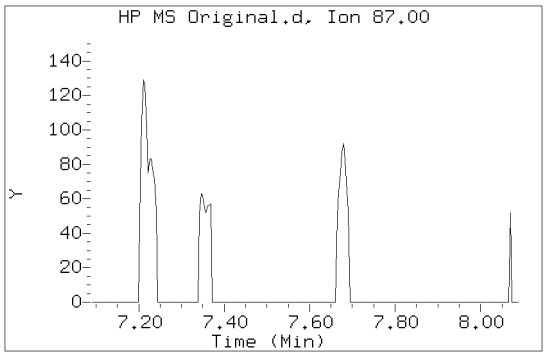
AFTER

MASS
56
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



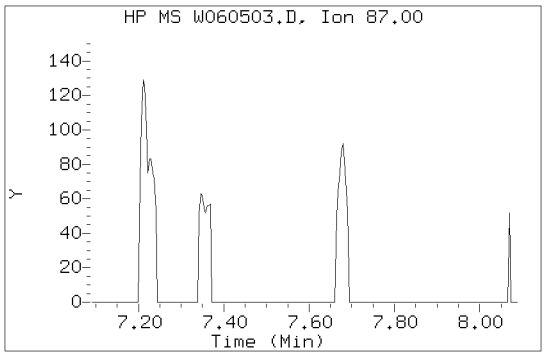
BEFORE

MASS
87
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
87
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

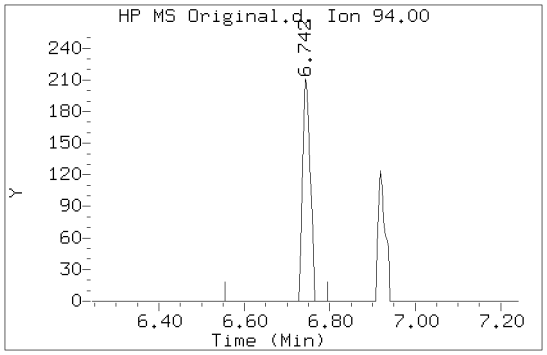


Dimethyl Disulfide (624-92-0)

Reason Code:

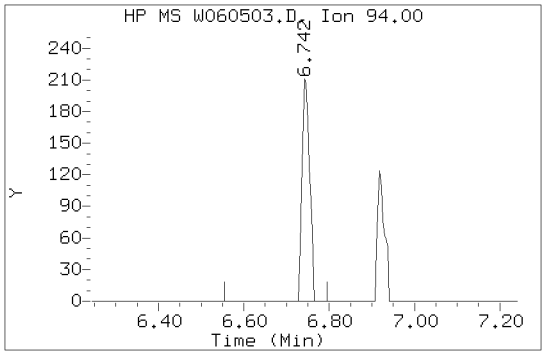
BEFORE

MASS
94
AREA
271
HEIGHT
211
21-Jun-2024
17:11
RUCHA
PATEL



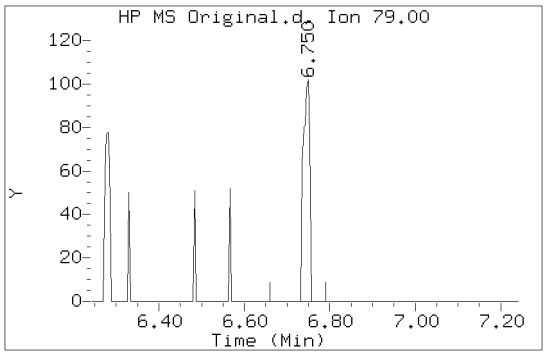
AFTER

MASS
94
AREA
271
HEIGHT
211
21-Jun-2024
17:11
RUCHA
PATEL



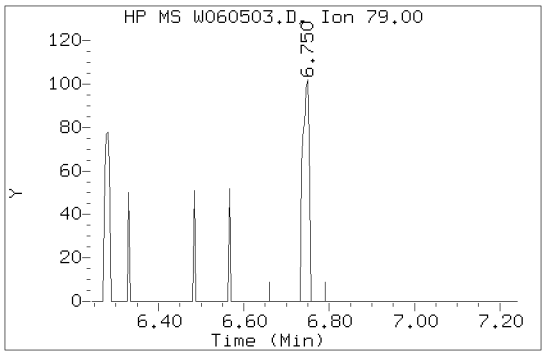
BEFORE

MASS
79
AREA
112
HEIGHT
102
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
79
AREA
112
HEIGHT
102
21-Jun-2024
17:11
RUCHA
PATEL



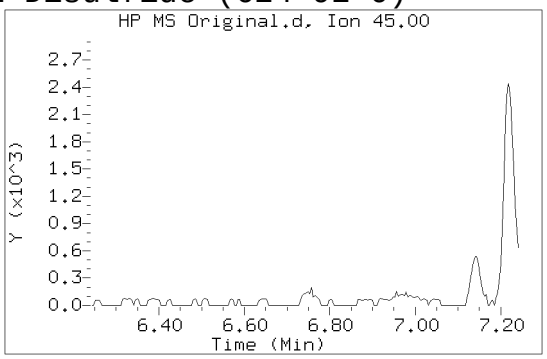
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LabSampID : VSTD00.5

Dimethyl Disulfide (624-92-0)

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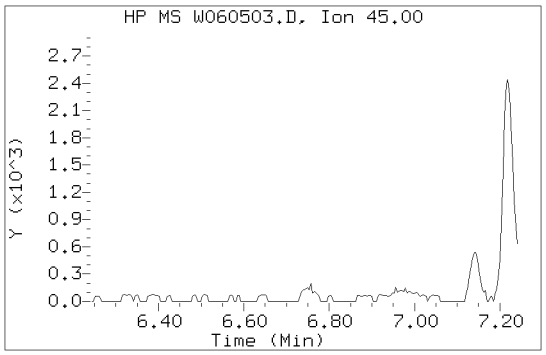
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AFTER

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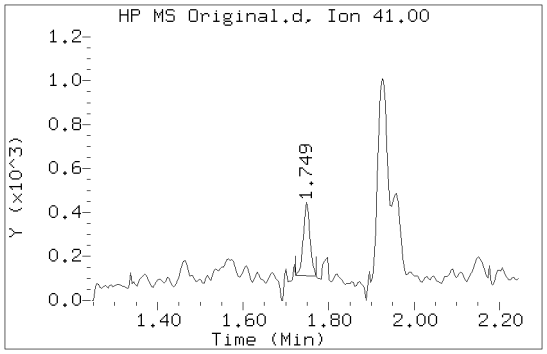


Isobutylene (115-11-7)

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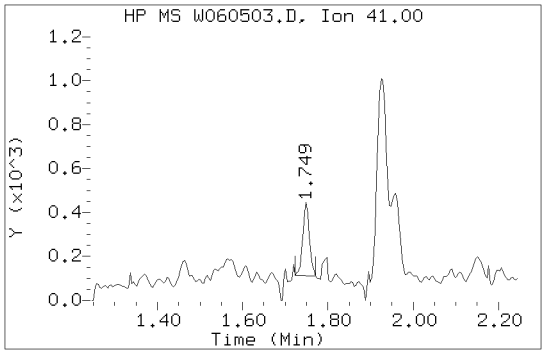
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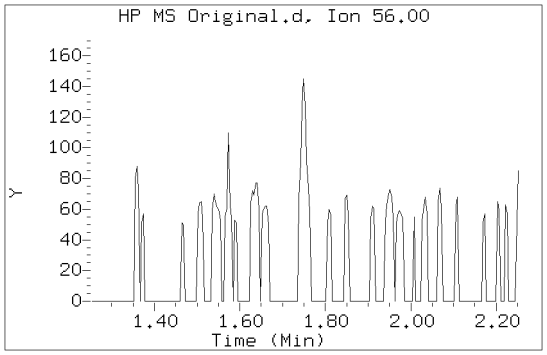
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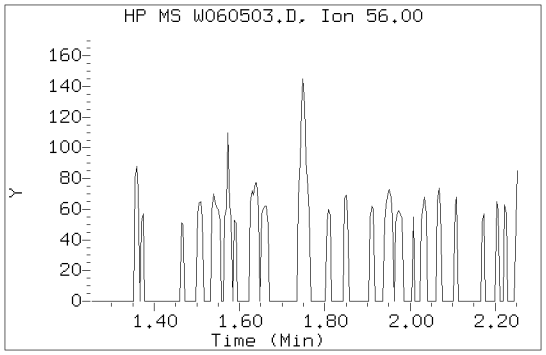
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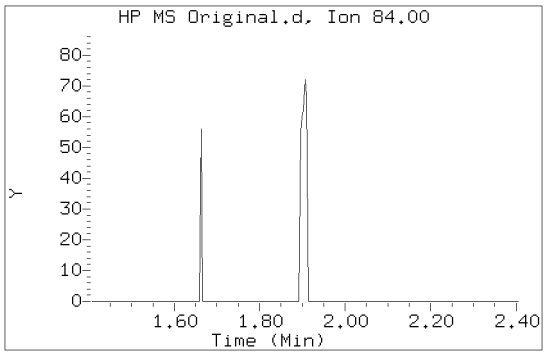
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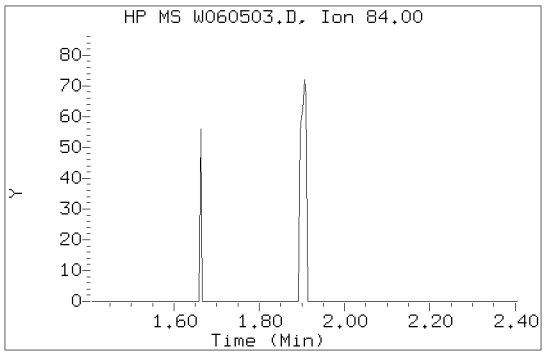
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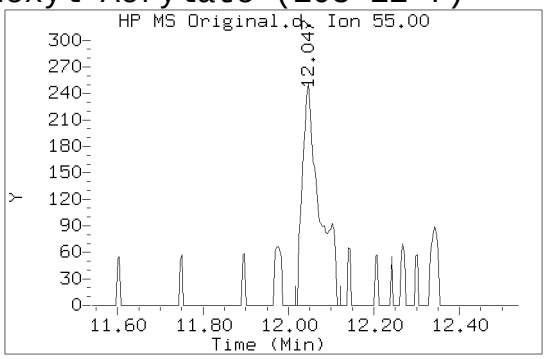
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Inj Date : 05-JUN-2024 19:20
InstruID : VOA9.i
LabSampID : VSTD00.5

2-Ethylhexyl Acrylate (103-11-7)

Reason Code:

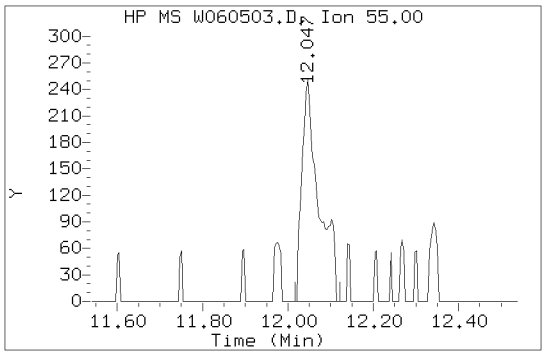
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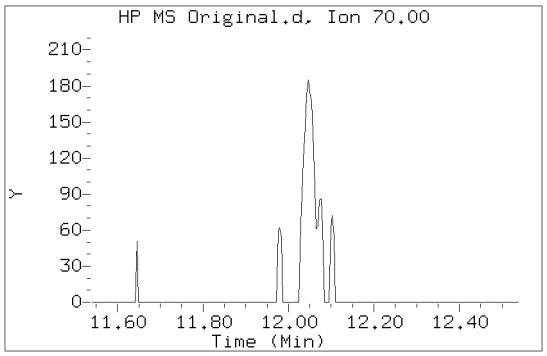
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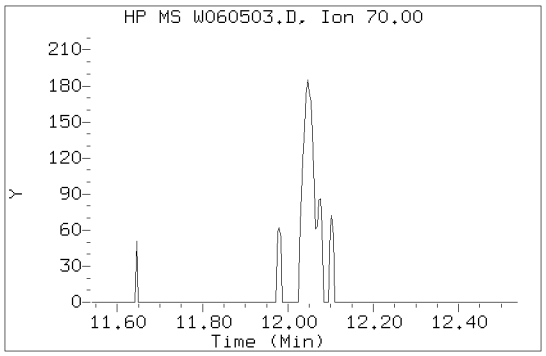
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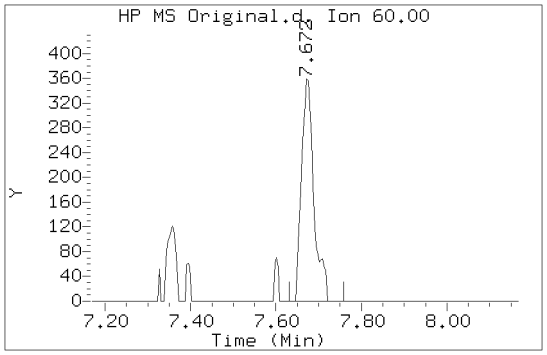


Tetrahydrothiophene (110-01-0)

Reason Code:

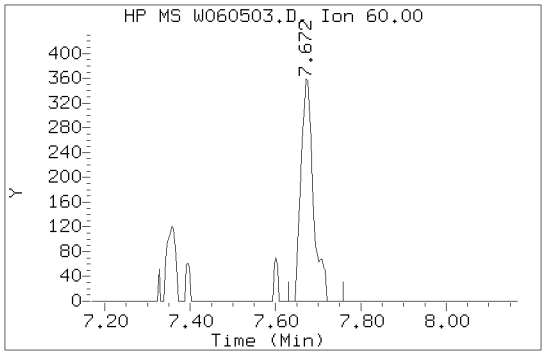
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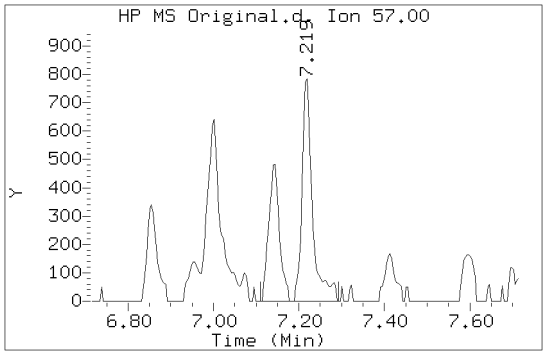


sec-Butyl Ether (6863-58-7)

Reason Code:

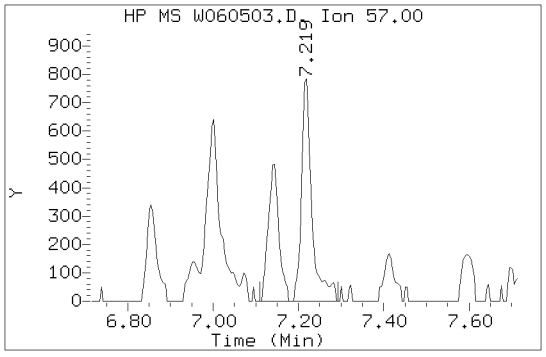
BEFORE

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AFTER

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Data File: \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060504.D Page 1
Report Date: 21-Jun-2024 17:11

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060504.D
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Inj Date : 05-JUN-2024 19:41
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Smp Info : VSTD001;VSTD001;1;3
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Comment   :
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Meth Date : 21-Jun-2024 17:11 VOA9.i Quant Type: ISTD
Cal Date : 05-JUN-2024 19:20 Cal File: W060503.D
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.811	4.811	(1.000)	202507	50.0000	
2	Dichlorodifluoromethane	85	1.160	1.160	(0.241)	674	1.00000	1.85(M)
4	Propionitrile	54	4.339	4.339	(0.902)	2734	10.0000	15.34(a)
5	Vinyl Chloride	62	1.370	1.370	(0.285)	1597	1.00000	1.16
6	Bromomethane	94	1.614	1.614	(0.335)	1336	1.00000	1.61
7	Chloroethane	64	1.696	1.696	(0.353)	1372	1.00000	1.20(M)
8	Trichlorofluoromethane	101	1.891	1.891	(0.393)	2046	1.00000	1.15
9	Acrolein	56	2.255	2.255	(0.469)	319	2.00000	0.63(aM)
10	Acetone	43	2.405	2.405	(0.500)	2573	2.00000	0.69(a)
11	1,1-Dichloroethene	96	2.330	2.330	(0.484)	1351	1.00000	1.16
12	Isobutyl Alcohol	43	5.284	5.284	(1.098)	4470	20.0000	20.75(a)
13	Acetonitrile	39	2.663	2.663	(0.554)	1908	10.0000	13.11(a)
14	Allyl Chloride	41	2.667	2.667	(0.554)	4870	1.00000	1.35(a)
15	Iodomethane	142	2.461	2.461	(0.512)	1107	2.00000	2.67(T)
16	Acrylonitrile	53	3.061	3.061	(0.636)	1798	2.00000	2.11
17	Methylene Chloride	84	2.791	2.791	(0.580)	2735	1.00000	0.61
18	Methyl tert-butyl ether	73	3.076	3.076	(0.639)	4478	1.00000	1.25
19	Carbon Disulfide	76	2.513	2.513	(0.522)	7419	2.00000	2.22
20	trans-1,2-Dichloroethene	96	3.053	3.053	(0.635)	1615	1.00000	1.37
21	Vinyl Acetate	43	4.343	4.343	(0.903)	1876	2.00000	2.81(M)

22 1,1-Dichloroethane	63	3.507	3.507 (0.729)	3367	1.00000	1.07(T)
23 Chloroprene	53	3.604	3.604 (0.749)	2041	1.00000	0.98(a)

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060504.D Page 2
Report Date: 21-Jun-2024 17:11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	24 2-Butanone	43	4.268	4.268	(0.887)	3070	2.00000	3.37
	25 Methacrylonitrile	41	4.496	4.496	(0.935)	1301	1.00000	2.87(aM)
	26 2,2-Dichloropropane	77	4.174	4.174	(0.868)	1781	1.00000	1.03(M)
	27 cis-1,2-Dichloroethene	96	4.189	4.189	(0.871)	1821	1.00000	1.38
	28 Chloroform	83	4.568	4.568	(0.949)	3194	1.00000	1.19
	29 Bromochloromethane	128	4.470	4.470	(0.929)	854	1.00000	0.66
$	30 Dibromofluoromethane	113	4.744	4.744	(0.986)	1809	1.00000	1.23
	31 1,1,1-Trichloroethane	97	4.736	4.736	(0.984)	1952	1.00000	1.01
	32 1,1-Dichloropropene	75	4.920	4.920	(0.887)	1795	1.00000	0.94
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	2470	1.00000	0.57
	34 Carbon Tetrachloride	117	4.901	4.901	(0.883)	1776	1.00000	1.13
$	35 1,2-Dichloroethane-d4	65	5.093	5.093	(1.058)	2549	1.00000	1.43(T)
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	294825	50.0000	
	37 Benzene	78	5.137	5.137	(0.926)	6794	1.00000	1.33
	38 Trichloroethene	130	5.786	5.786	(1.043)	1611	1.00000	1.09(a)
	39 Bromodichloromethane	83	6.273	6.273	(1.130)	1664	1.00000	0.95(aM)
	40 Methyl Methacrylate	41	5.827	5.827	(1.211)	884	1.00000	3.65(aM)
	41 2-Chloroethylvinyl ether	63	6.577	6.577	(1.185)	308	2.00000	6.82(M)
	42 1,2-Dichloropropane	63	6.003	6.003	(1.082)	1675	1.00000	1.00(a)
	43 2-Nitropropane	43	6.502	6.502	(1.351)	201	1.00000	0.68(aM)
	44 Dibromomethane	93	6.116	6.116	(1.102)	1022	1.00000	0.95(a)
	45 4-Methyl-2-Pentanone	43	6.854	6.854	(0.838)	3077	2.00000	4.50(a)
	46 cis-1,3-Dichloropropene	75	6.686	6.686	(1.205)	1599	1.00000	3.12(aM)
*	47 Chlorobenzene-d5	117	8.181	8.181	(1.000)	261999	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	6704	1.00000	1.27(a)
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	1770	1.00000	0.92(a)
	50 Toluene	91	6.978	6.978	(0.853)	6362	1.00000	1.08(a)
	51 trans-1,3-Dichloropropene	75	7.199	7.199	(1.297)	1337	1.00000	3.28(aM)
	52 2-Hexanone	43	7.218	7.218	(0.882)	3890	2.00000	2.16(a)
	53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	1192	1.00000	0.86(a)
	54 1,3-Dichloropropane	76	7.499	7.499	(0.917)	2645	1.00000	1.05(a)
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	991	1.00000	2.58(a)
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	1417	1.00000	1.24(a)
	57 1,2-Dibromoethane	107	7.788	7.788	(0.952)	1394	1.00000	1.63(a)
	58 1-Chlorohexane	55	8.185	8.185	(1.475)	3967	1.00000	3.06(a)
	59 Chlorobenzene	112	8.208	8.208	(1.003)	4601	1.00000	1.12(a)
	60 1,1,1,2-Tetrachloroethane	131	8.279	8.279	(1.012)	1260	1.00000	0.99(a)
	61 Ethylbenzene	106	8.301	8.301	(1.015)	1824	1.00000	0.97(a)
	62 m,p-Xylenes	106	8.410	8.410	(1.028)	4529	2.00000	1.95(a)
	63 o-Xylene	106	8.747	8.747	(1.069)	2316	1.00000	1.03(a)
	64 Styrene	104	8.762	8.762	(1.071)	3506	1.00000	0.96(a)
	66 Bromoform	173	8.920	8.920	(1.090)	645	1.00000	4.19(aM)
	67 Isopropylbenzene	105	9.062	9.062	(1.108)	4972	1.00000	0.93(a)
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	2094	1.00000	0.93(aM)
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.124)	2792	1.00000	1.46(a)
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	132114	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.921)	2024	1.00000	2.36(a)
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	491	1.00000	1.87(aM)
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	6148	1.00000	1.02(a)
	74 Bromobenzene	156	9.317	9.317	(0.916)	1882	1.00000	1.54(a)
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	3587	1.00000	0.90(a)
	76 2-Chlorotoluene	91	9.482	9.482	(0.933)	4069	1.00000	1.04(a)

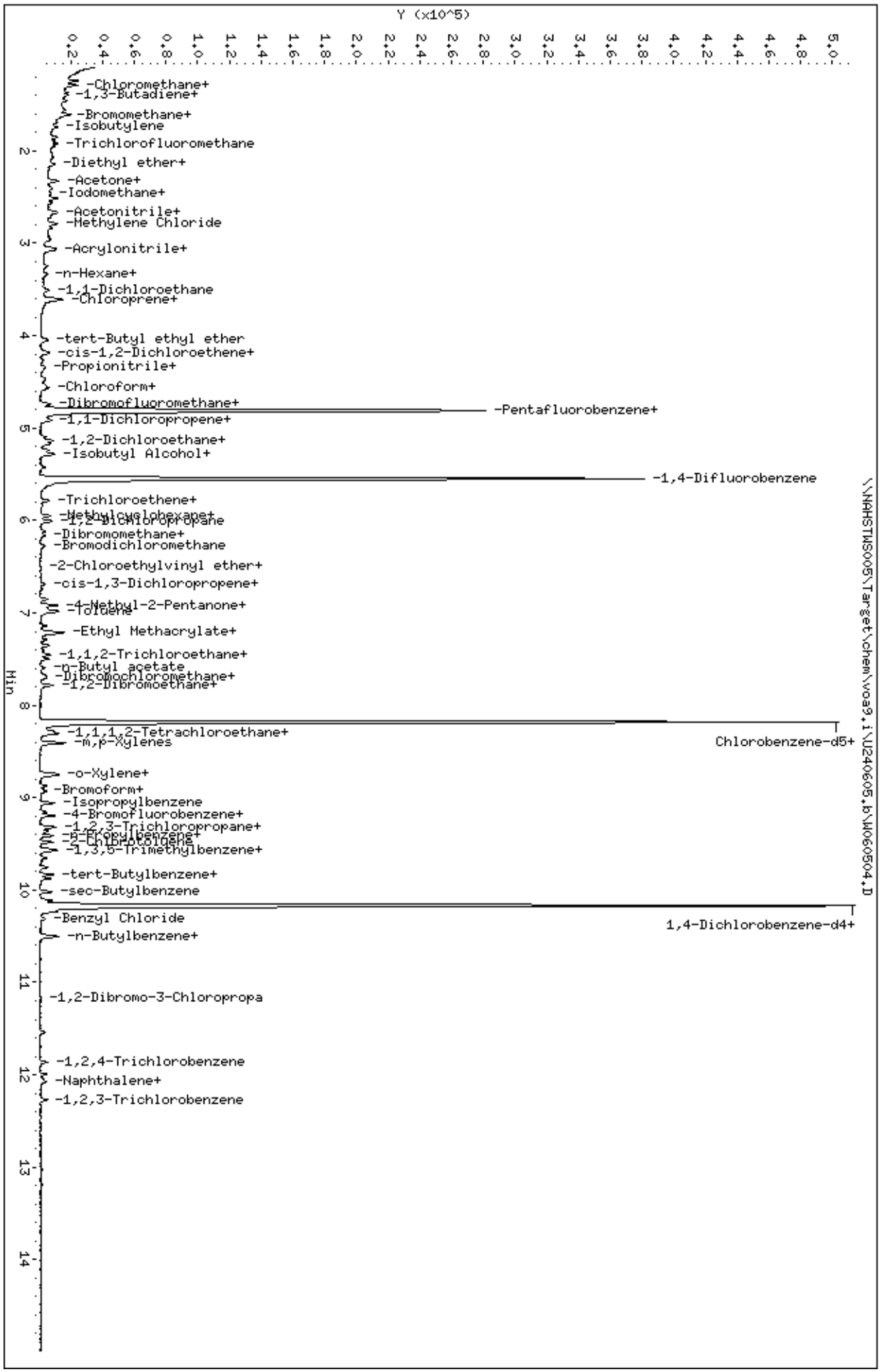
77 4-Chlorotoluene	91	9.576	9.576 (0.942)	4366	1.00000	0.97(a)
78 tert-Butylbenzene	119	9.835	9.835 (0.967)	3518	1.00000	0.97(a)

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060504.D Page 3
Report Date: 21-Jun-2024 17:11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	3805	1.00000	0.93(a)
81	sec-Butylbenzene	105	10.022	10.022	(0.986)	4813	1.00000	1.00(a)
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	3777	1.00000	0.93(a)
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.995)	3046	1.00000	1.09(a)
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	3841	1.00000	1.24(a)
86	Benzyl Chloride	91	10.314	10.314	(1.261)	2454	1.00000	2.78(aM)
87	n-Butylbenzene	91	10.494	10.494	(1.032)	3873	1.00000	2.63(a)
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	3200	1.00000	1.20(a)
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	163	1.00000	2.24(aM)
90	1,2,4-Trichlorobenzene	180	11.863	11.863	(1.167)	1549	1.00000	2.60(aM)
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	953	1.00000	1.26(aM)
92	Naphthalene	128	12.073	12.073	(1.187)	3046	1.00000	2.59(a)
93	1,2,3-Trichlorobenzene	180	12.275	12.275	(1.207)	1449	1.00000	0.95(aM)
146	Methyl acetate	43	2.708	2.708	(0.563)	1979	1.00000	(aM)
138	Freon TF	101	2.330	2.330	(0.484)	1118	1.00000	1.12(a)
141	Cyclohexane	56	4.811	4.811	(1.000)	5721	1.00000	3.38(a)
142	Tetrahydrofuran	42	4.538	4.538	(0.943)	920	2.00000	2.59(aM)
147	Methylcyclohexane	55	5.947	5.947	(1.072)	3457	1.00000	1.01(a)
135	1,4-Dioxane	88	6.172	6.172	(1.283)	475	20.0000	31.50(M)
132	n-Butanol	56	5.835	5.835	(1.213)	851	20.0000	74.16(a)
136	n-Hexane	57	3.338	3.338	(0.694)	1533	1.00000	1.82(Ta)
139	Diethyl ether	59	2.139	2.139	(0.445)	1272	1.00000	1.19(a)
148	Tert-butyl alcohol	59	2.967	2.967	(0.617)	3358	20.0000	35.57
149	Isopropyl alcohol	45	2.558	2.558	(0.532)	2536	20.0000	32.77
156	Diisopropyl ether	45	3.612	3.612	(0.751)	6186	1.00000	1.58(Ta)
162	Butyl acrylate	55	8.736	8.736	(1.068)	2426	1.00000	0.93(a)
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	6558	1.00000	1.98(a)
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	4308	1.00000	1.90(a)
167	Ethanol	45	2.075	2.075	(0.431)	550	20.0000	19.95(M)
172	tert-Butyl formate	59	5.239	5.239	(1.089)	2752	2.00000	2.81(aM)
151	4-Methyl-2-pentanol	45	7.218	7.218	(1.301)	6679	20.0000	70.30
140	1,3-Butadiene	54	1.396	1.396	(0.290)	751	1.00000	1.59(a)
182	Epichlorohydrin	57	6.637	6.637	(1.196)	238	4.00000	4.37(aM)
M 94	1,2-Dichloroethylene (total)	96				3436	2.00000	(a)
130	Ethyl Acetate	43	4.541	4.541	(0.944)	1204	1.00000	(aM)
131	Methyl Acrylate	55	4.373	4.373	(0.909)	2072	1.00000	1.98(aM)
189	n-Butyl acetate	43	7.597	7.597	(0.929)	2204	1.00000	1.12(TaM)
134	Cyclohexanone	55	9.152	9.152	(0.900)	1673	20.0000	12.71(a)
185	Isoprene	39	2.154	2.154	(0.448)	344	1.00000	1.01(aM)
188	Isopropyl acetate	43	5.284	5.284	(0.952)	4470	1.00000	1.37(a)
150	Allyl alcohol	57	3.338	3.338	(0.694)	1533	20.0000	36.58
194	Acetaldehyde	44	1.456	1.456	(0.303)	1886	4.00000	7.29(M)
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	446	1.00000	1.73(aM)
133	Ethyl Acrylate	55	5.947	5.947	(1.236)	3457	1.00000	1.01(aM)
163	Butyl methacrylate	41	9.651	9.651	(0.949)	1854	1.00000	0.56(a)
159	Propylene oxide	43	2.195	2.195	(0.456)	287	2.00000	2.52(aM)
178	Ethylene oxide	44	1.602	1.602	(0.333)	4017	2.00000	7.69(M)
203	2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	1138	1.00000	2.00(aM)
204	Tetrahydrothiophene	60	7.668	7.668	(0.937)	1357	1.00000	1.09(aA)
205	sec-Butyl Ether	57	7.214	7.214	(0.882)	3578	1.00000	1.11(aAM)
187	n-Amyl acetate	43	8.931	8.931	(1.092)	2676	1.00000	1.09(aM)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060504.D
Date : 05-JUN-2024 19:41
Client ID: VSTD001
Sample Info: VSTD001;VSTD0011;1;3
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

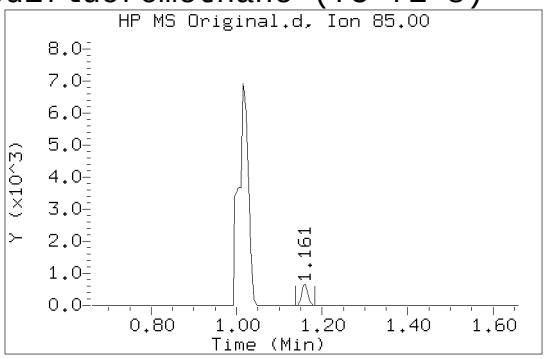
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Inj Date : 05-JUN-2024 19:41
InstruID : VOA9.i
LabSampID : VSTD001

Dichlorodifluoromethane (75-71-8)

Reason Code:

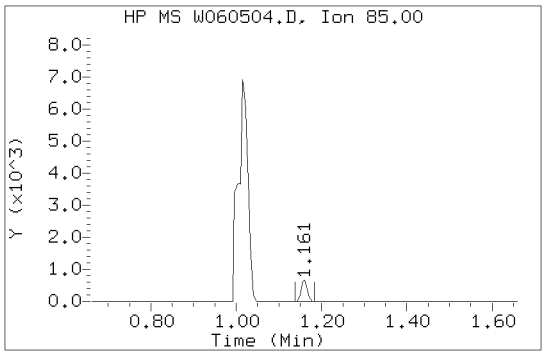
BEFORE

MASS
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AREA
674
HEIGHT
663
21-Jun-2024
17:11
RUCHA
PATEL



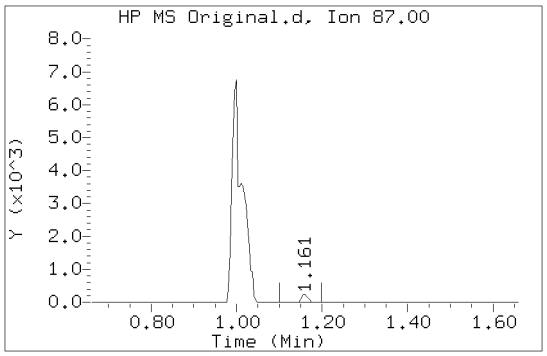
AFTER

MASS
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AREA
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HEIGHT
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21-Jun-2024
17:11
RUCHA
PATEL



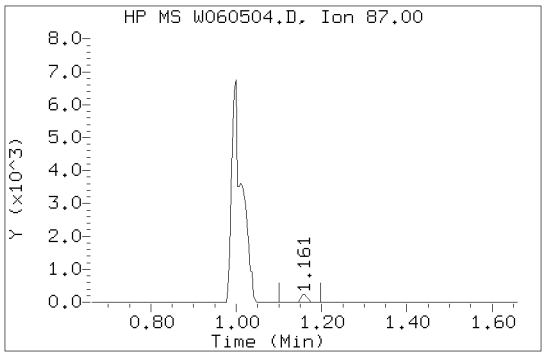
BEFORE

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228
21-Jun-2024
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RUCHA
PATEL



AFTER

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AREA
245
HEIGHT
228
21-Jun-2024
17:11
RUCHA
PATEL

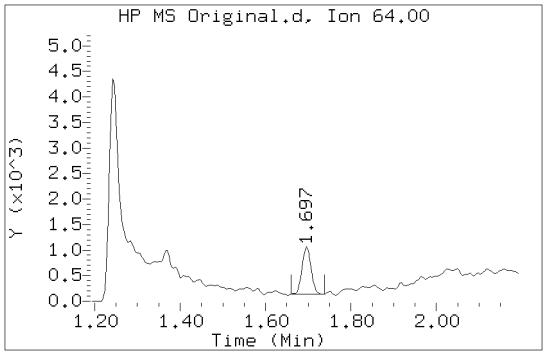


Chloroethane (75-00-3)

Reason Code:

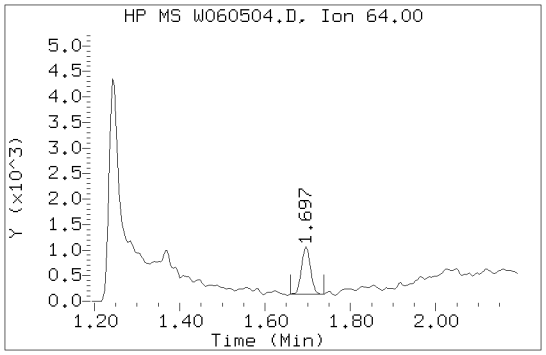
BEFORE

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AREA
1372
HEIGHT
934
21-Jun-2024
17:11
RUCHA
PATEL



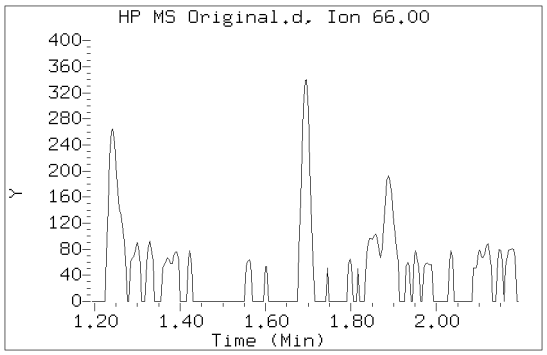
AFTER

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AREA
1372
HEIGHT
934
21-Jun-2024
17:11
RUCHA
PATEL



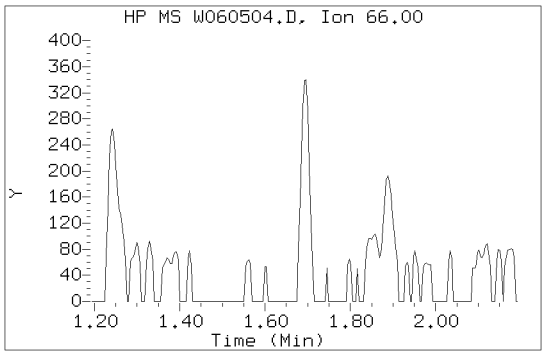
BEFORE

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66
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
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AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



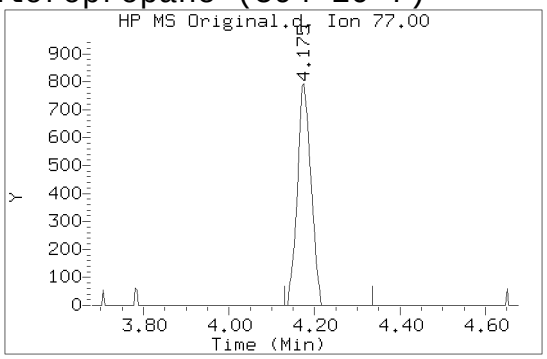
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Inj Date : 05-JUN-2024 19:41
InstruID : VOA9.i
LabSampID : VSTD001

2,2-Dichloropropane (594-20-7)

Reason Code:

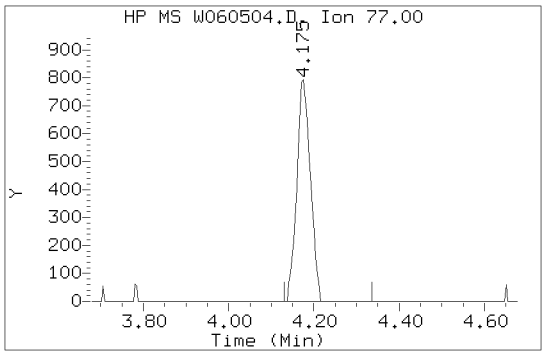
BEFORE

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HEIGHT
793
21-Jun-2024
17:11
RUCHA
PATEL



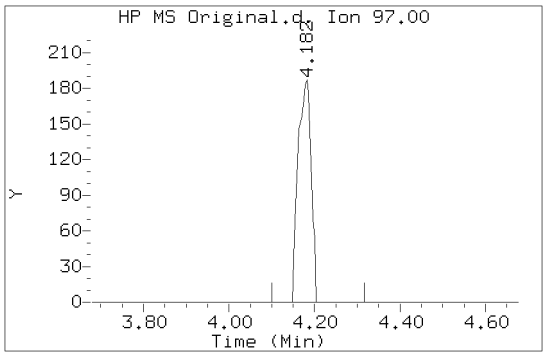
AFTER

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AREA
1781
HEIGHT
793
21-Jun-2024
17:11
RUCHA
PATEL



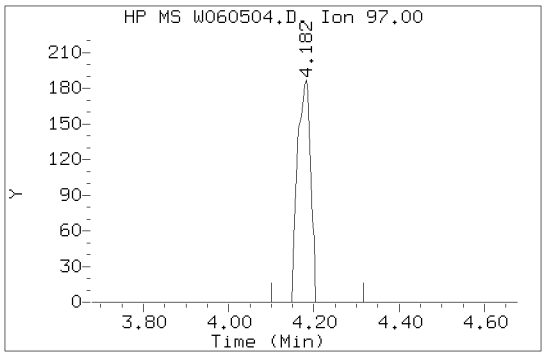
BEFORE

MASS
97
AREA
404
HEIGHT
187
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
97
AREA
404
HEIGHT
187
21-Jun-2024
17:11
RUCHA
PATEL

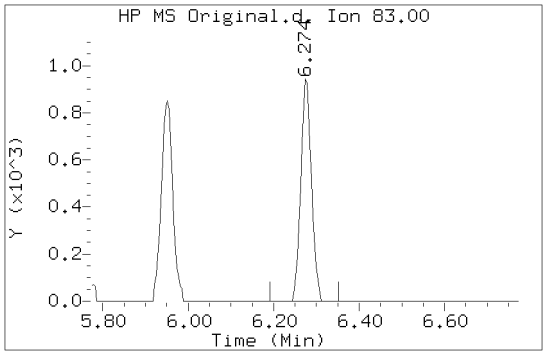


Bromodichloromethane (75-27-4)

Reason Code:

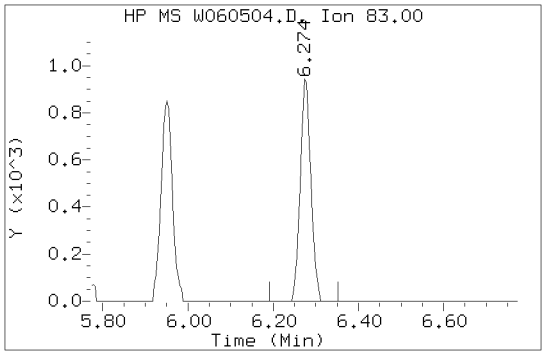
BEFORE

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17:11
RUCHA
PATEL



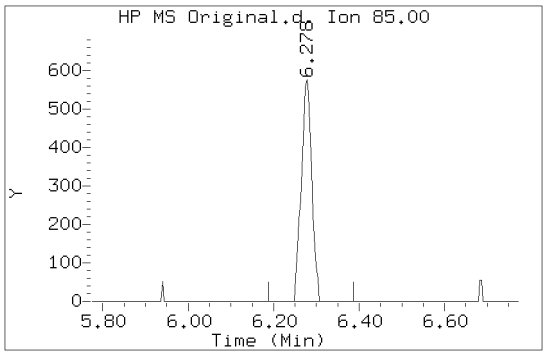
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HEIGHT
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21-Jun-2024
17:11
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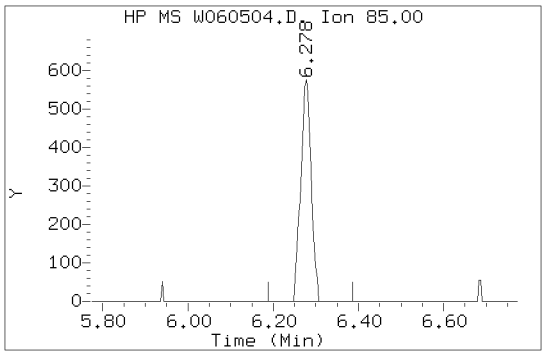
BEFORE

MASS
85
AREA
1007
HEIGHT
577
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
85
AREA
1007
HEIGHT
577
21-Jun-2024
17:11
RUCHA
PATEL



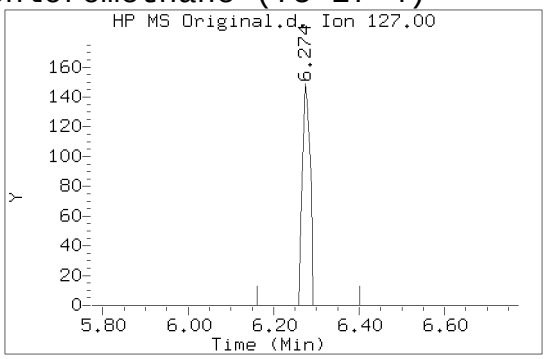
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Inj Date : 05-JUN-2024 19:41
InstruID : VOA9.i
LabSampID : VSTD001

Bromodichloromethane (75-27-4)

Reason Code:

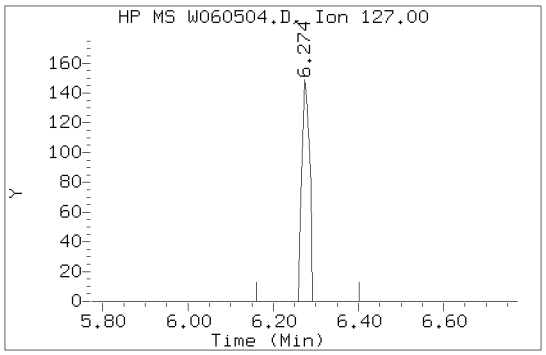
BEFORE

MASS
127
AREA
191
HEIGHT
149
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
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AREA
191
HEIGHT
149
21-Jun-2024
17:11
RUCHA
PATEL

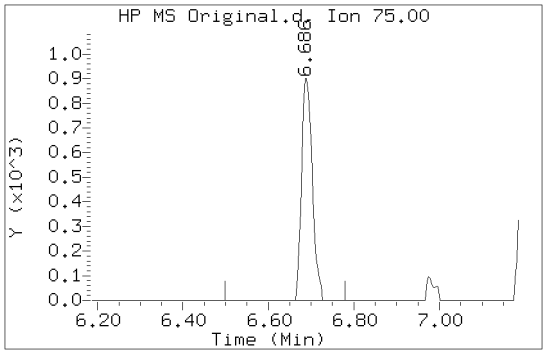


cis-1,3-Dichloropropene (10061-01-5)

Reason Code:

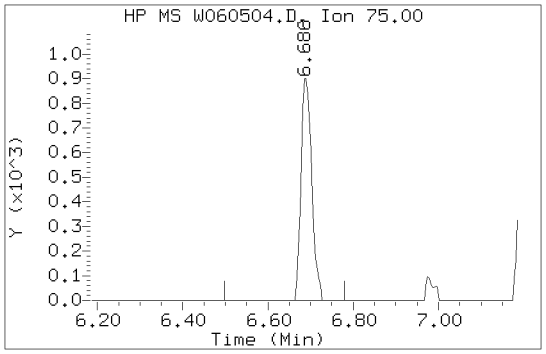
BEFORE

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AREA
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HEIGHT
900
21-Jun-2024
17:11
RUCHA
PATEL



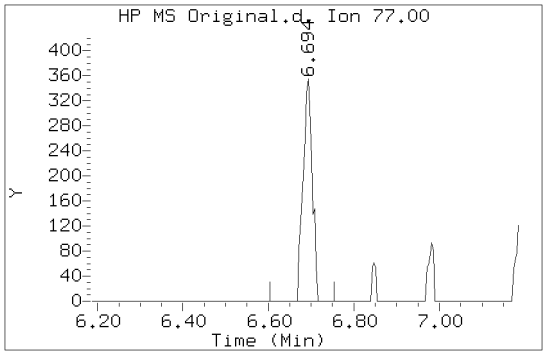
AFTER

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AREA
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HEIGHT
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21-Jun-2024
17:11
RUCHA
PATEL



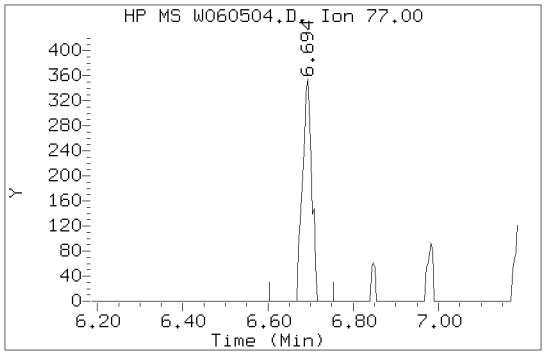
BEFORE

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355
21-Jun-2024
17:11
RUCHA
PATEL



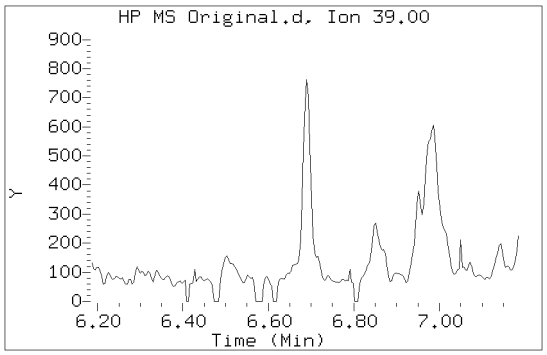
AFTER

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21-Jun-2024
17:11
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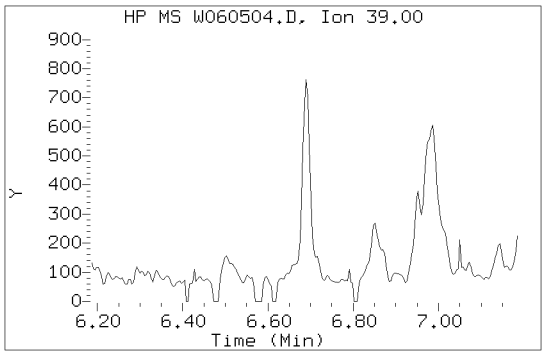
BEFORE

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21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
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AREA
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HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



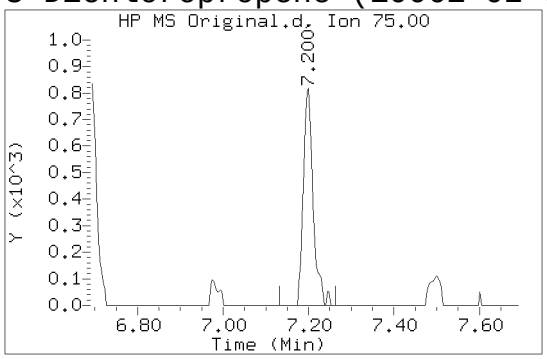
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060504.D
Inj Date : 05-JUN-2024 19:41
InstruID : VOA9.i
LabSampID : VSTD001

trans-1,3-Dichloropropene (10061-02-6)

Reason Code:

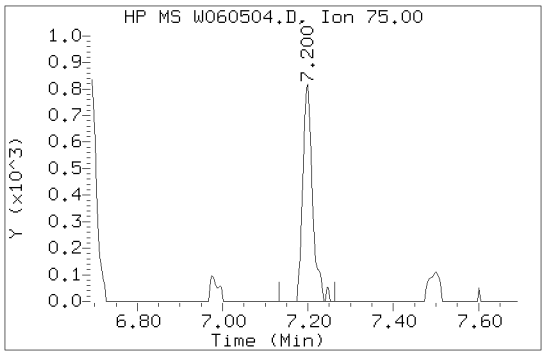
BEFORE

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1337
HEIGHT
818
21-Jun-2024
17:11
RUCHA
PATEL



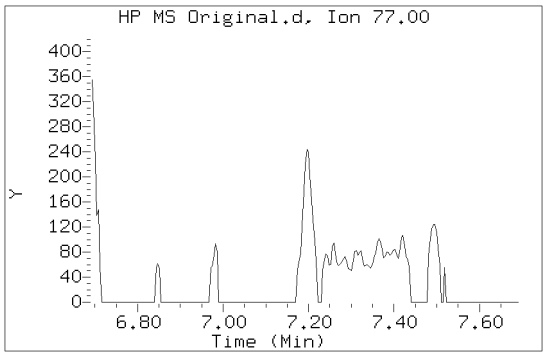
AFTER

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HEIGHT
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21-Jun-2024
17:11
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PATEL



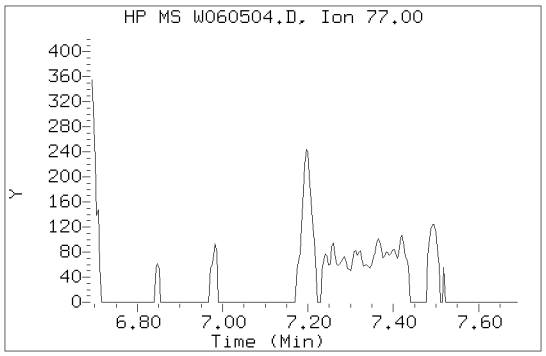
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17:11
RUCHA
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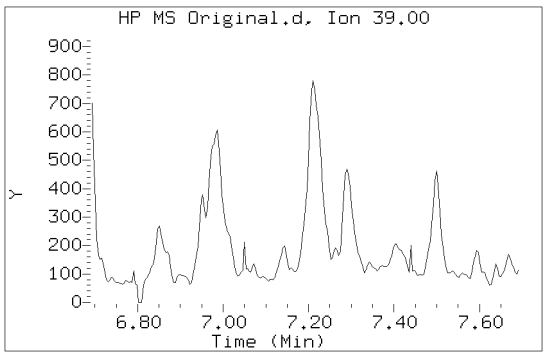
AFTER

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21-Jun-2024
17:11
RUCHA
PATEL



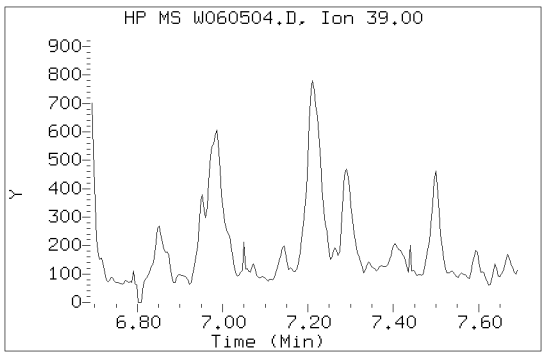
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AFTER

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17:11
RUCHA
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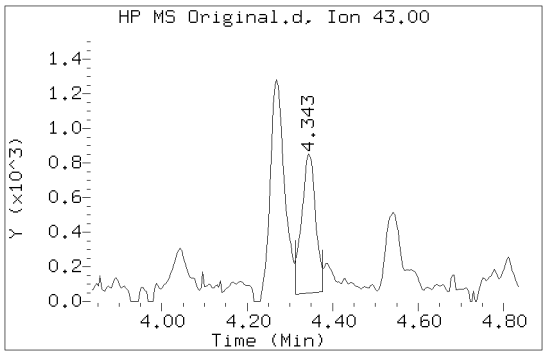


Vinyl Acetate (108-05-4)

Reason Code:

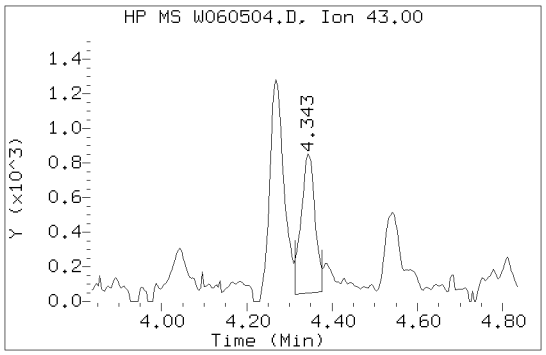
BEFORE

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AREA
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HEIGHT
805
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
43
AREA
1876
HEIGHT
805
21-Jun-2024
17:11
RUCHA
PATEL



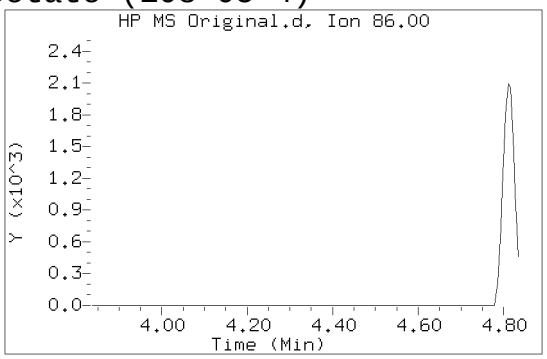
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Inj Date : 05-JUN-2024 19:41
InstruID : VOA9.i
LabSampID : VSTD001

Vinyl Acetate (108-05-4)

Reason Code:

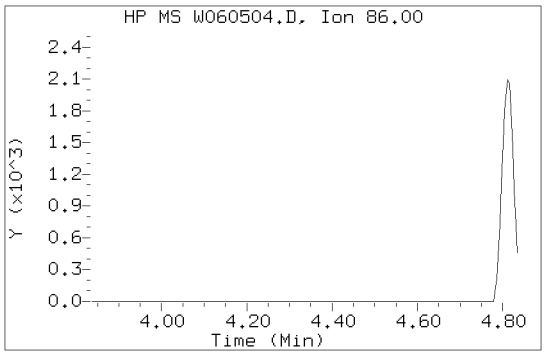
BEFORE

MASS
86
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
86
AREA
0
HEIGHT
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21-Jun-2024
17:11
RUCHA
PATEL

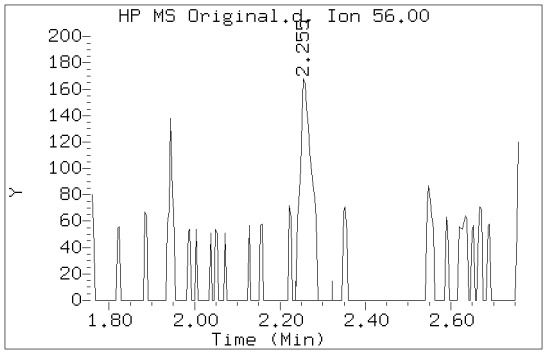


Acrolein (107-02-8)

Reason Code:

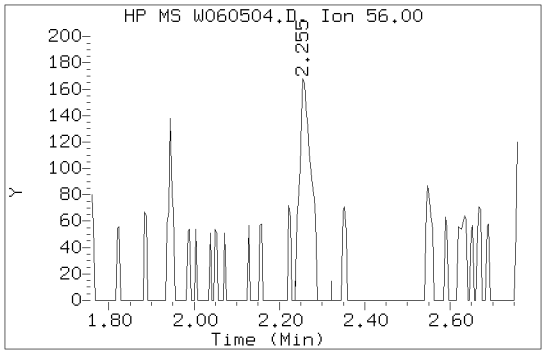
BEFORE

MASS
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AREA
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HEIGHT
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21-Jun-2024
17:11
RUCHA
PATEL



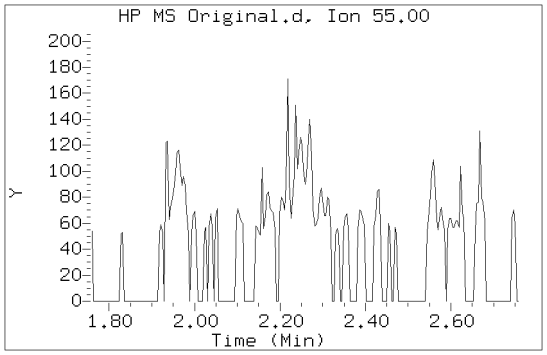
AFTER

MASS
56
AREA
319
HEIGHT
168
21-Jun-2024
17:11
RUCHA
PATEL



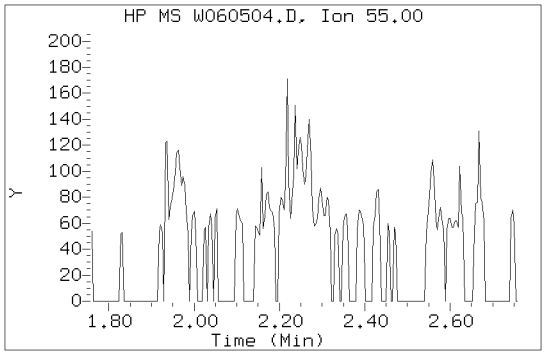
BEFORE

MASS
55
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
55
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

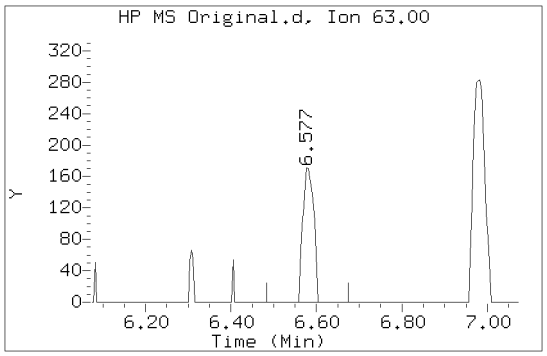


2-Chloroethylvinyl ether (110-75-8)

Reason Code:

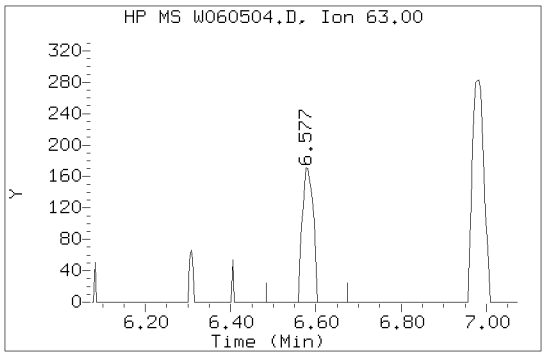
BEFORE

MASS
63
AREA
308
HEIGHT
171
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
63
AREA
308
HEIGHT
171
21-Jun-2024
17:11
RUCHA
PATEL



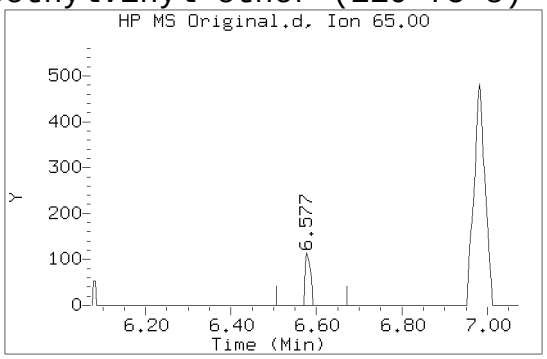
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060504.D
Inj Date : 05-JUN-2024 19:41
InstruID : VOA9.i
LabSampID : VSTD001

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

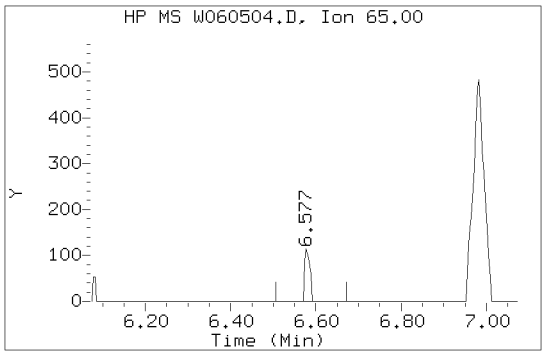
BEFORE

MASS
65
AREA
100
HEIGHT
115
21-Jun-2024
17:11
RUCHA
PATEL



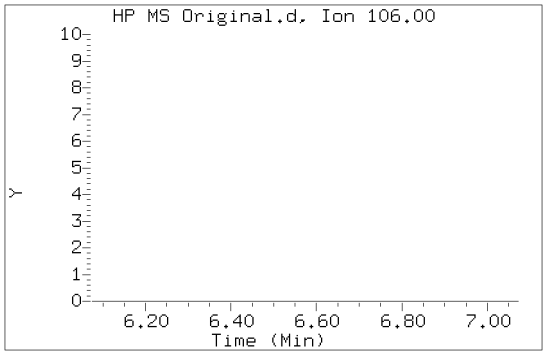
AFTER

MASS
65
AREA
100
HEIGHT
115
21-Jun-2024
17:11
RUCHA
PATEL



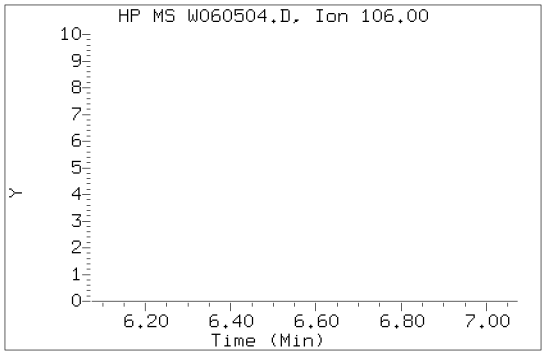
BEFORE

MASS
106
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
106
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

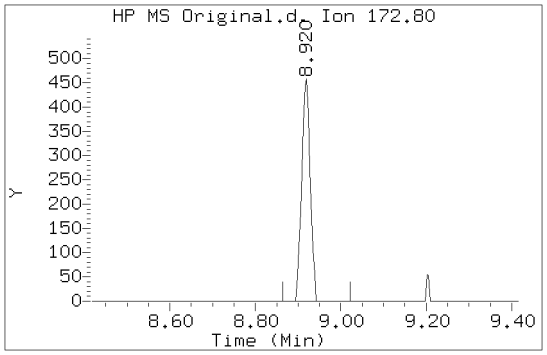


Bromoform (75-25-2)

Reason Code:

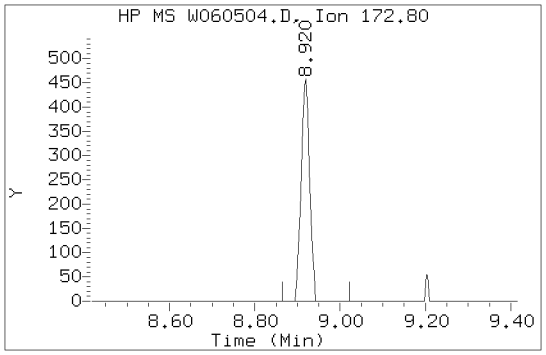
BEFORE

MASS
172.8
AREA
645
HEIGHT
458
21-Jun-2024
17:11
RUCHA
PATEL



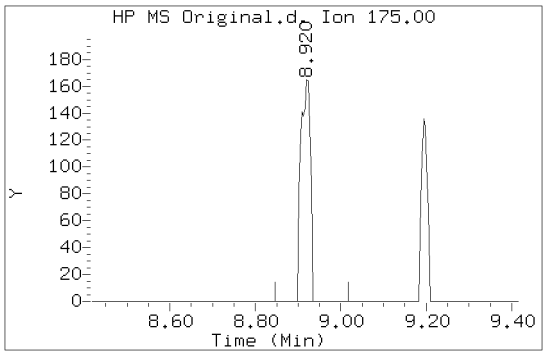
AFTER

MASS
172.8
AREA
645
HEIGHT
458
21-Jun-2024
17:11
RUCHA
PATEL



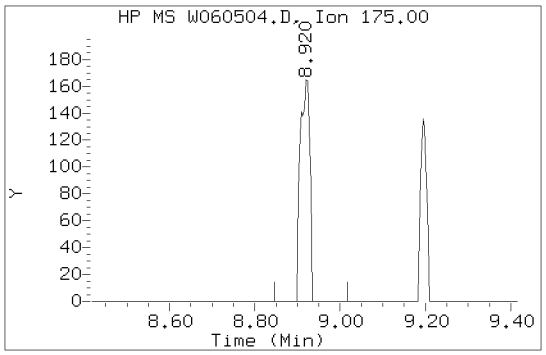
BEFORE

MASS
175
AREA
264
HEIGHT
165
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
175
AREA
264
HEIGHT
165
21-Jun-2024
17:11
RUCHA
PATEL



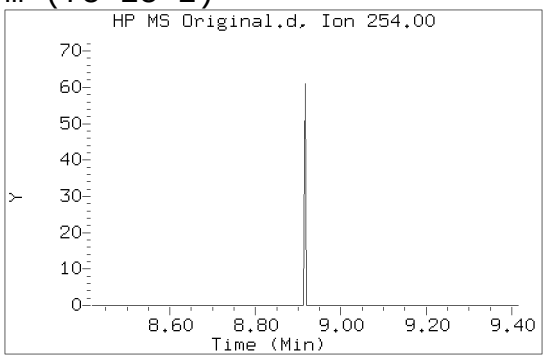
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060504.D
Inj Date : 05-JUN-2024 19:41
InstruID : VOA9.i
LabSampID : VSTD001

Bromoform (75-25-2)

Reason Code:

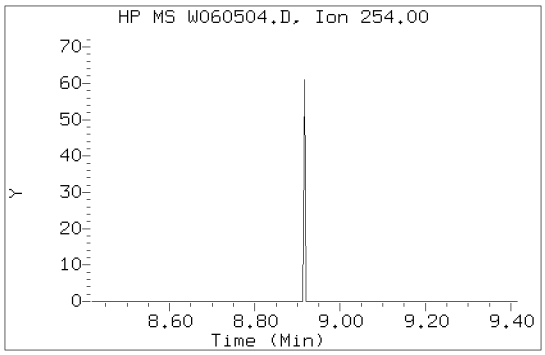
BEFORE

MASS
254
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
254
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

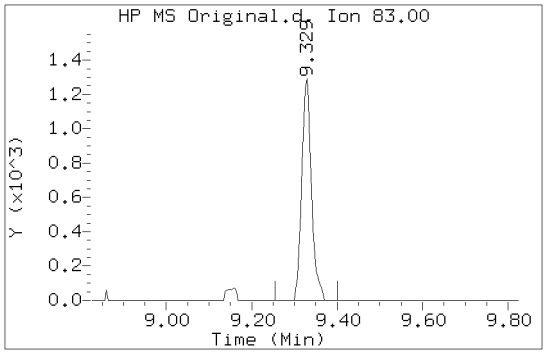


1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

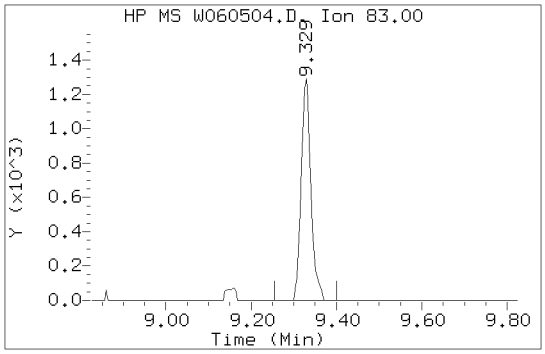
BEFORE

MASS
83
AREA
2094
HEIGHT
1292
21-Jun-2024
17:11
RUCHA
PATEL



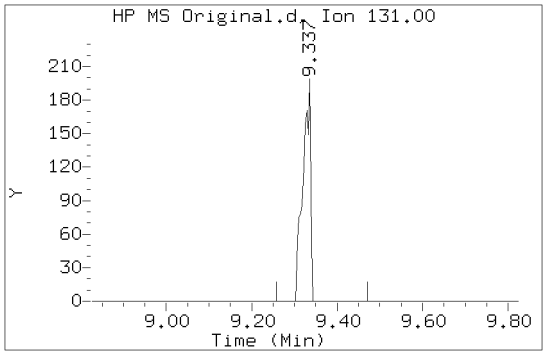
AFTER

MASS
83
AREA
2094
HEIGHT
1292
21-Jun-2024
17:11
RUCHA
PATEL



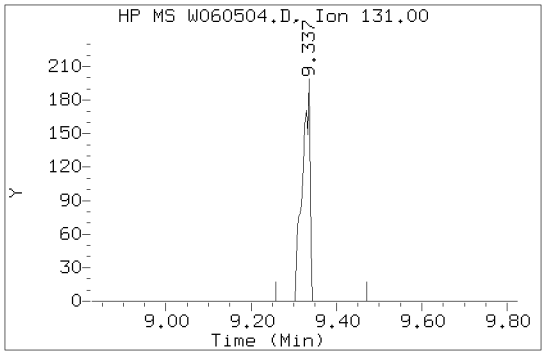
BEFORE

MASS
131
AREA
256
HEIGHT
199
21-Jun-2024
17:11
RUCHA
PATEL



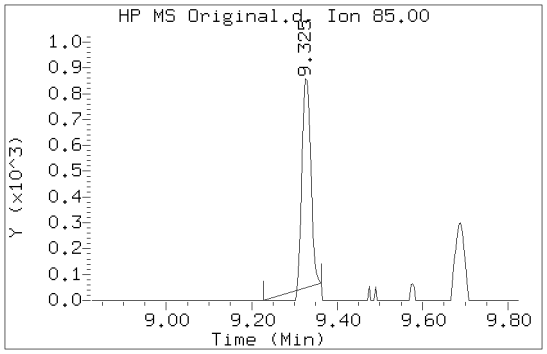
AFTER

MASS
131
AREA
256
HEIGHT
199
21-Jun-2024
17:11
RUCHA
PATEL



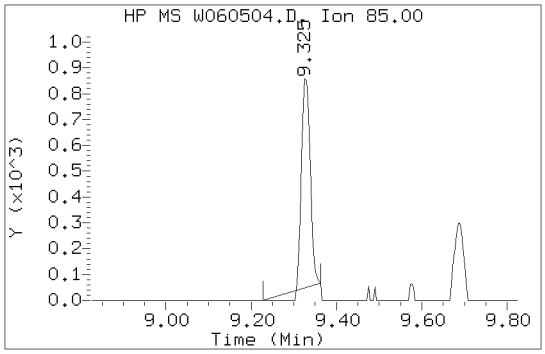
BEFORE

MASS
85
AREA
1105
HEIGHT
808
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
85
AREA
1105
HEIGHT
808
21-Jun-2024
17:11
RUCHA
PATEL



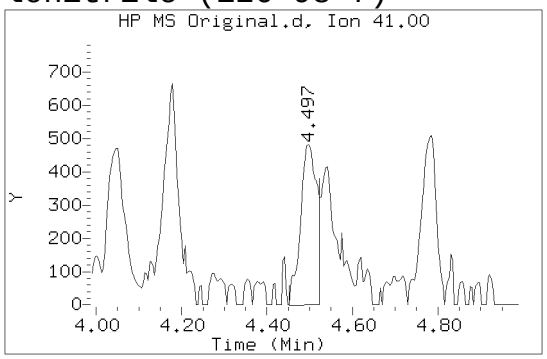
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060504.D
Inj Date : 05-JUN-2024 19:41
InstruID : VOA9.i
LabSampID : VSTD001

Methacrylonitrile (126-98-7)

Reason Code:

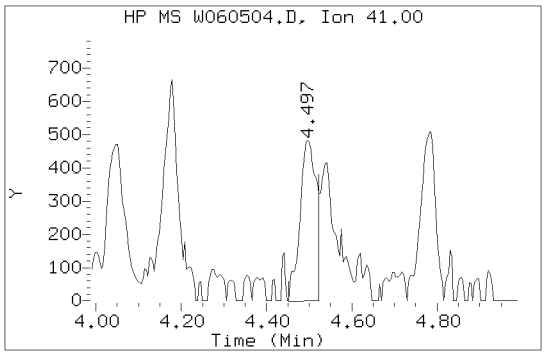
BEFORE

MASS
41
AREA
1301
HEIGHT
482
21-Jun-2024
17:11
RUCHA
PATEL



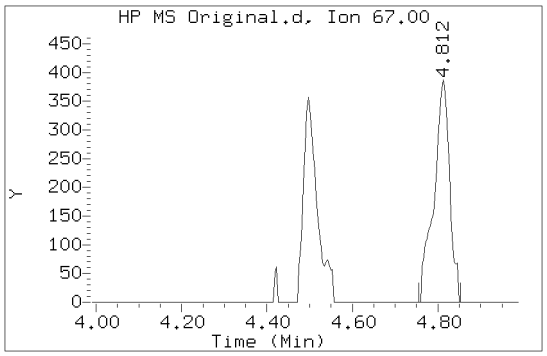
AFTER

MASS
41
AREA
1301
HEIGHT
482
21-Jun-2024
17:11
RUCHA
PATEL



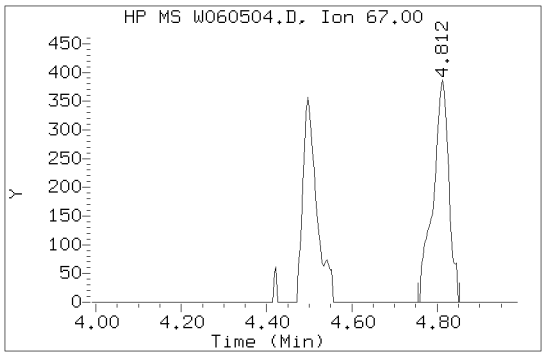
BEFORE

MASS
67
AREA
983
HEIGHT
387
21-Jun-2024
17:11
RUCHA
PATEL



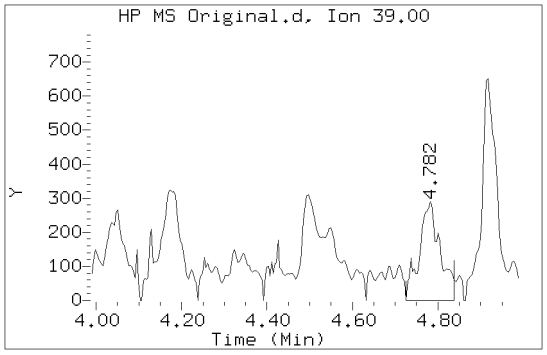
AFTER

MASS
67
AREA
983
HEIGHT
387
21-Jun-2024
17:11
RUCHA
PATEL



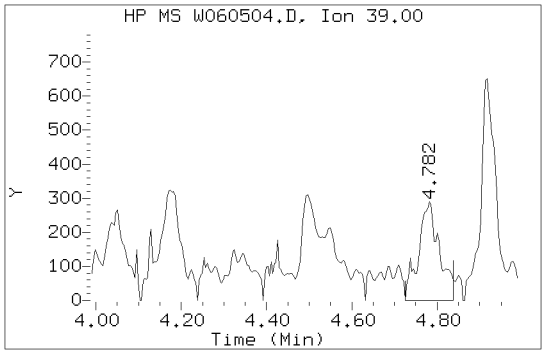
BEFORE

MASS
39
AREA
985
HEIGHT
289
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
39
AREA
985
HEIGHT
289
21-Jun-2024
17:11
RUCHA
PATEL

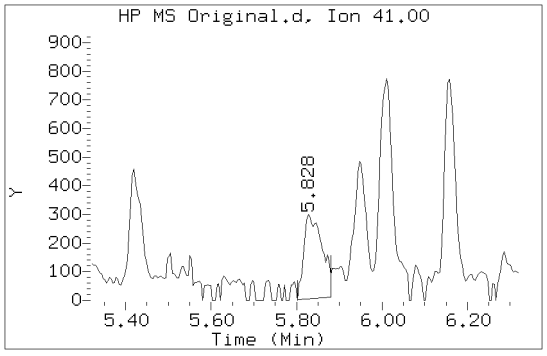


Methyl Methacrylate (80-62-6)

Reason Code:

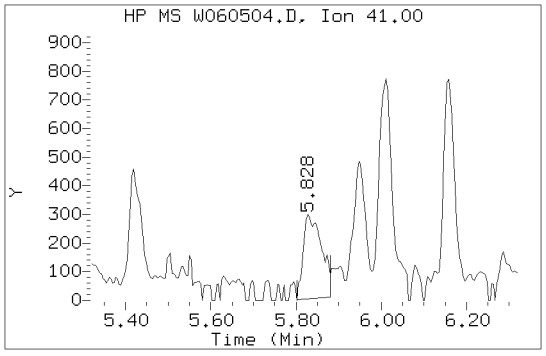
BEFORE

MASS
41
AREA
884
HEIGHT
294
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
41
AREA
884
HEIGHT
294
21-Jun-2024
17:11
RUCHA
PATEL



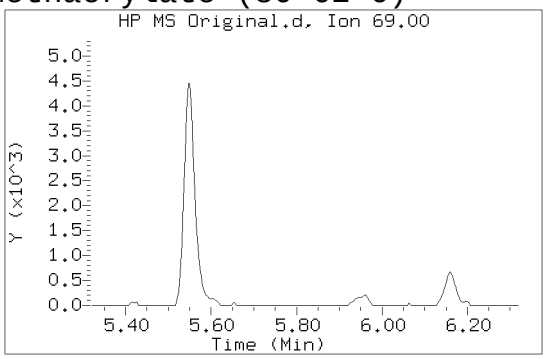
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Inj Date : 05-JUN-2024 19:41
InstruID : VOA9.i
LabSampID : VSTD001

Methyl Methacrylate (80-62-6)

Reason Code:

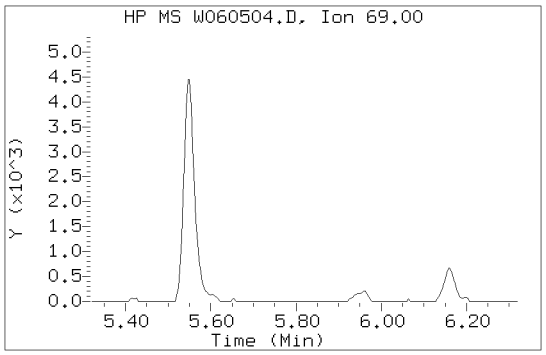
BEFORE

MASS
69
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



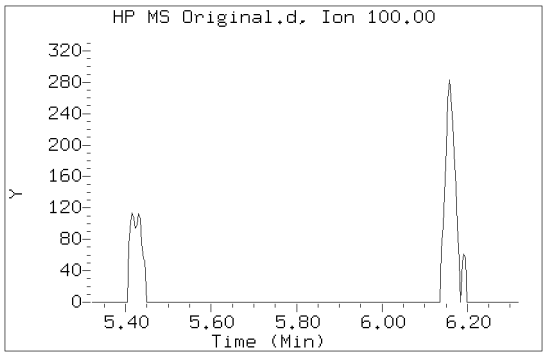
AFTER

MASS
69
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



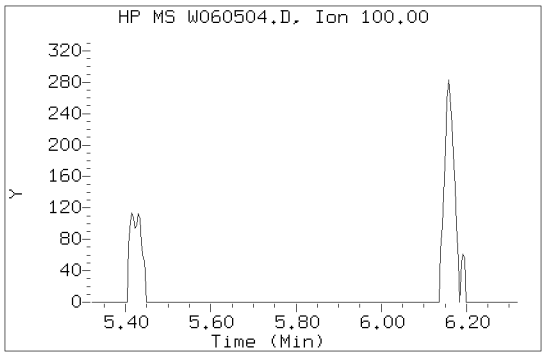
BEFORE

MASS
100
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
100
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

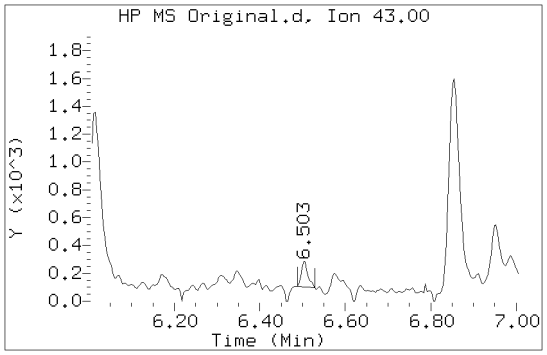


2-Nitropropane (79-46-9)

Reason Code:

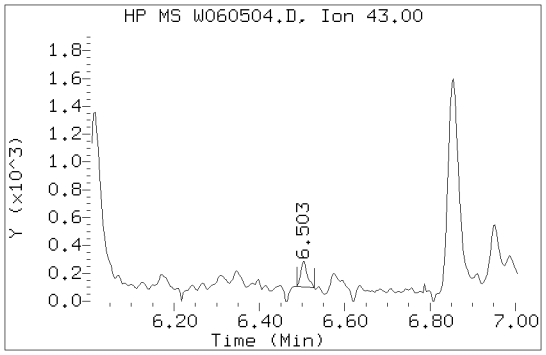
BEFORE

MASS
43
AREA
201
HEIGHT
181
21-Jun-2024
17:11
RUCHA
PATEL



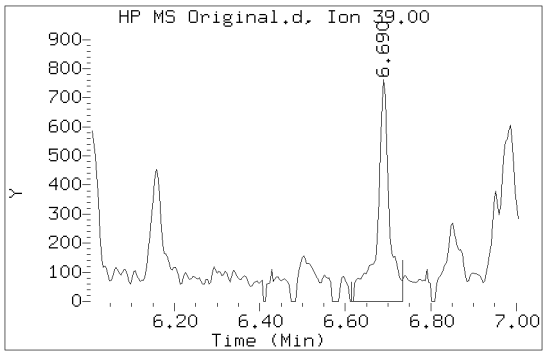
AFTER

MASS
43
AREA
201
HEIGHT
181
21-Jun-2024
17:11
RUCHA
PATEL



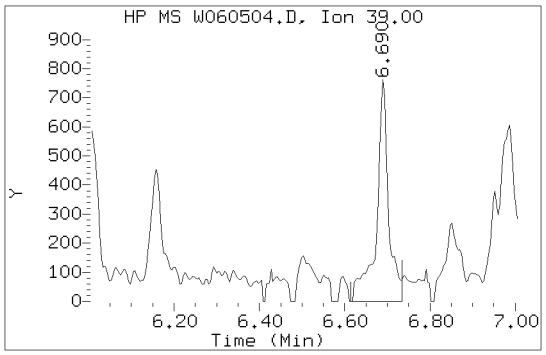
BEFORE

MASS
39
AREA
1501
HEIGHT
762
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
39
AREA
1501
HEIGHT
762
21-Jun-2024
17:11
RUCHA
PATEL



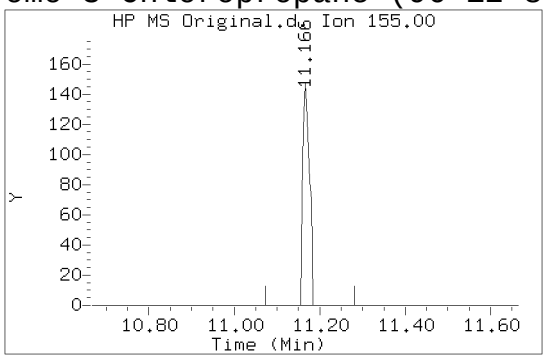
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060504.D
Inj Date : 05-JUN-2024 19:41
InstruID : VOA9.i
LabSampID : VSTD001

1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

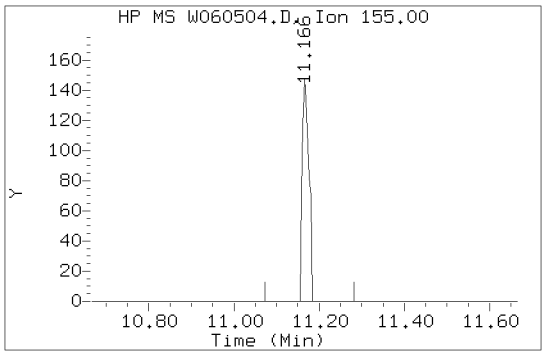
BEFORE

MASS
155
AREA
163
HEIGHT
147
21-Jun-2024
17:11
RUCHA
PATEL



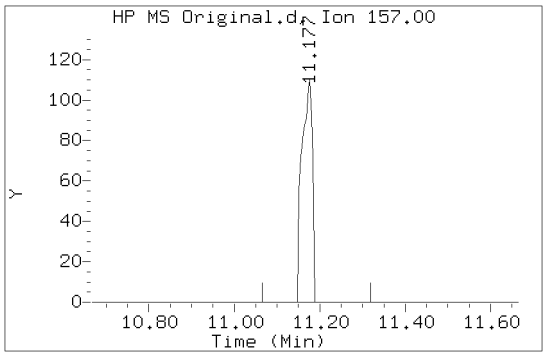
AFTER

MASS
155
AREA
163
HEIGHT
147
21-Jun-2024
17:11
RUCHA
PATEL



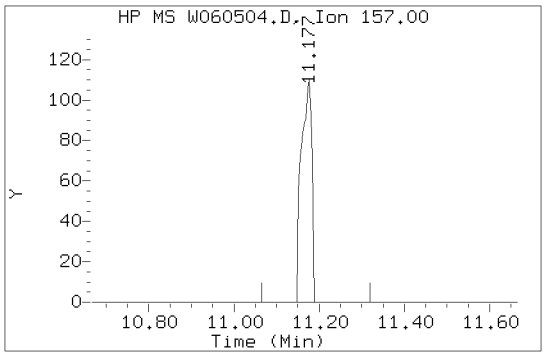
BEFORE

MASS
157
AREA
190
HEIGHT
110
21-Jun-2024
17:11
RUCHA
PATEL



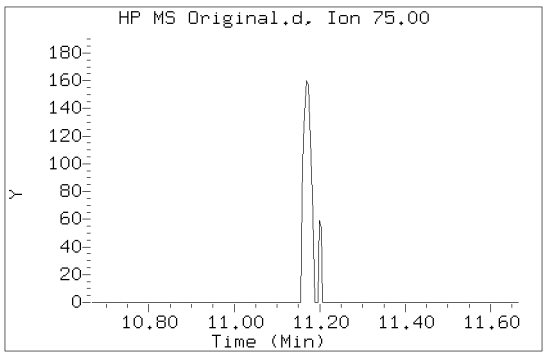
AFTER

MASS
157
AREA
190
HEIGHT
110
21-Jun-2024
17:11
RUCHA
PATEL



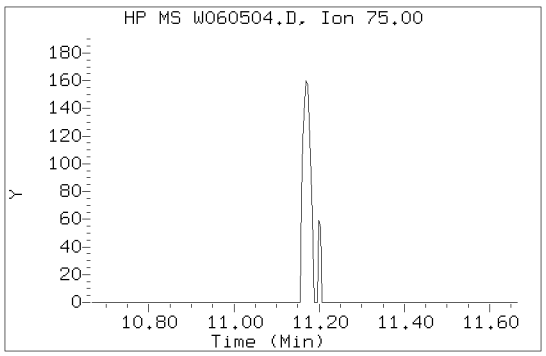
BEFORE

MASS
75
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
75
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

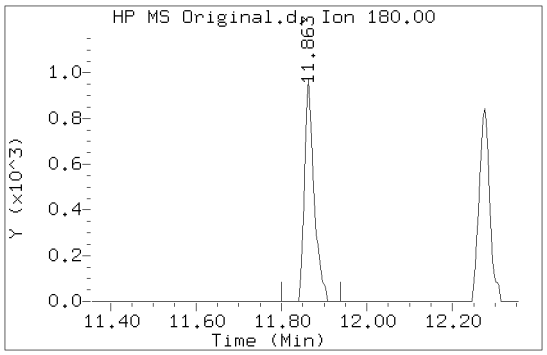


1,2,4-Trichlorobenzene (120-82-1)

Reason Code:

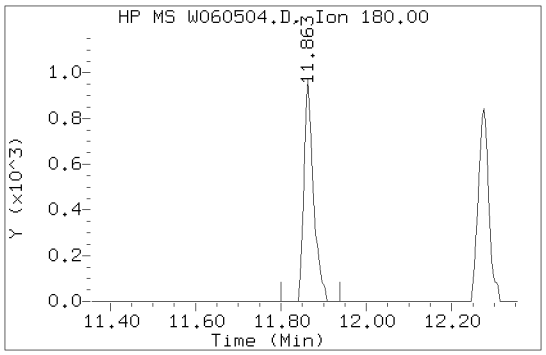
BEFORE

MASS
180
AREA
1549
HEIGHT
970
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
180
AREA
1549
HEIGHT
970
21-Jun-2024
17:11
RUCHA
PATEL



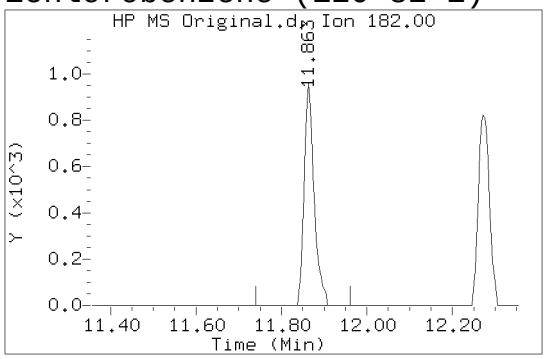
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Inj Date : 05-JUN-2024 19:41
InstruID : VOA9.i
LabSampID : VSTD001

1,2,4-Trichlorobenzene (120-82-1)

Reason Code:

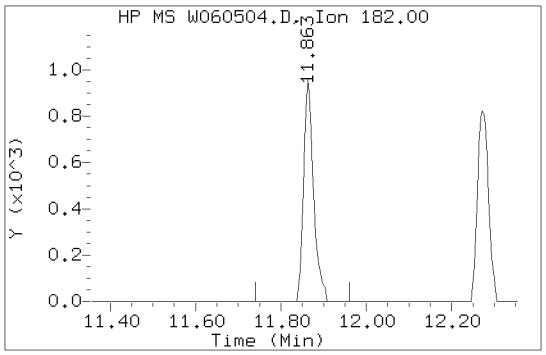
BEFORE

MASS
182
AREA
1594
HEIGHT
958
21-Jun-2024
17:11
RUCHA
PATEL



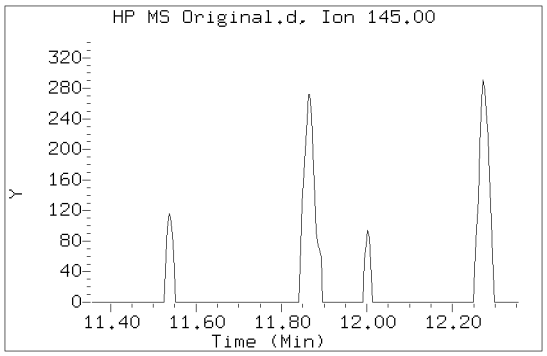
AFTER

MASS
182
AREA
1594
HEIGHT
958
21-Jun-2024
17:11
RUCHA
PATEL



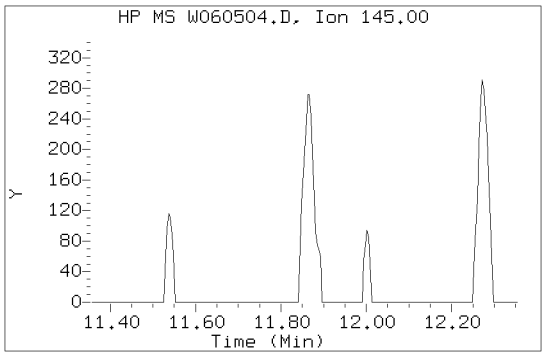
BEFORE

MASS
145
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
145
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

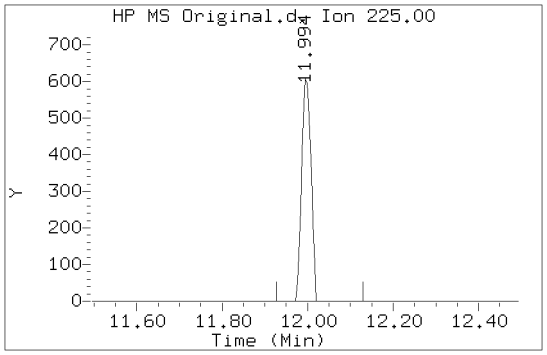


Hexachlorobutadiene (87-68-3)

Reason Code:

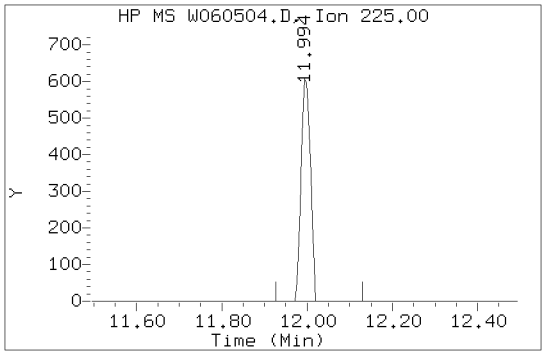
BEFORE

MASS
225
AREA
953
HEIGHT
607
21-Jun-2024
17:11
RUCHA
PATEL



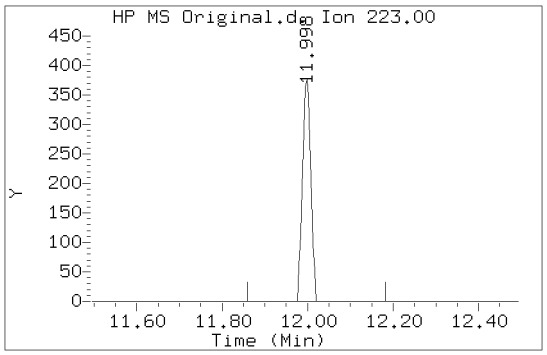
AFTER

MASS
225
AREA
953
HEIGHT
607
21-Jun-2024
17:11
RUCHA
PATEL



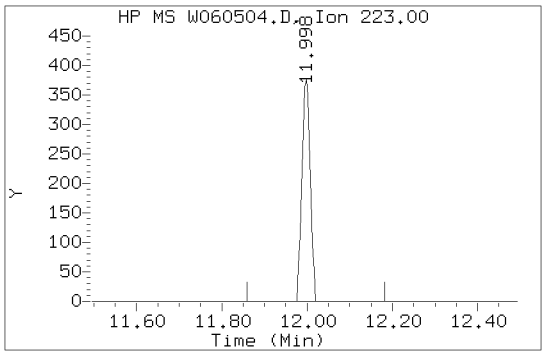
BEFORE

MASS
223
AREA
525
HEIGHT
376
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
223
AREA
525
HEIGHT
376
21-Jun-2024
17:11
RUCHA
PATEL



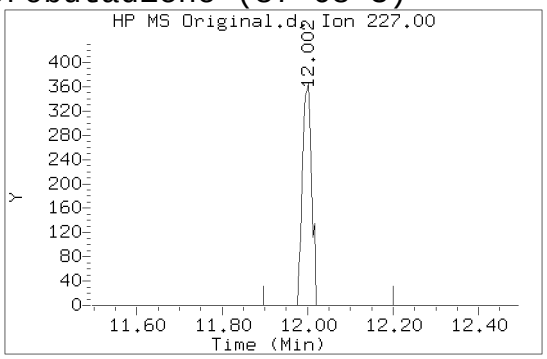
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060504.D
Inj Date : 05-JUN-2024 19:41
InstruID : VOA9.i
LabSampID : VSTD001

Hexachlorobutadiene (87-68-3)

Reason Code:

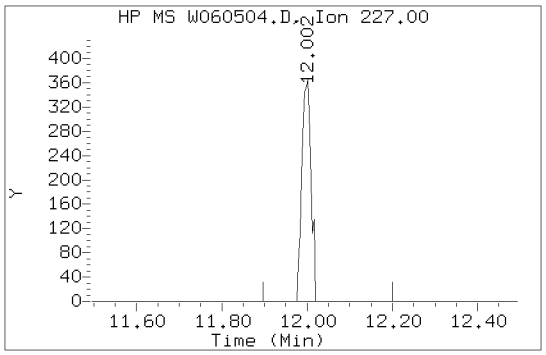
BEFORE

MASS
227
AREA
563
HEIGHT
365
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
227
AREA
563
HEIGHT
365
21-Jun-2024
17:11
RUCHA
PATEL

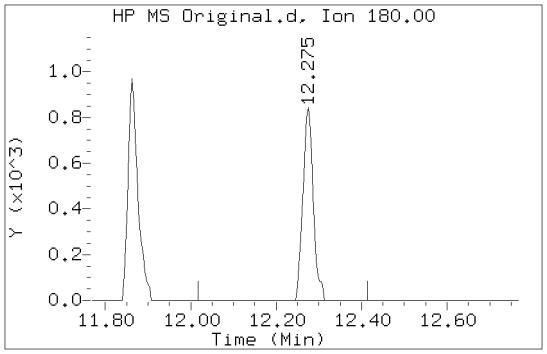


1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

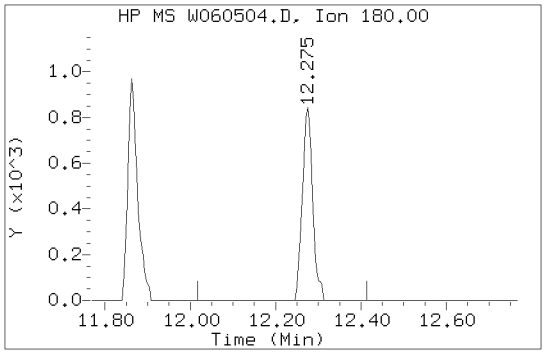
BEFORE

MASS
180
AREA
1449
HEIGHT
845
21-Jun-2024
17:11
RUCHA
PATEL



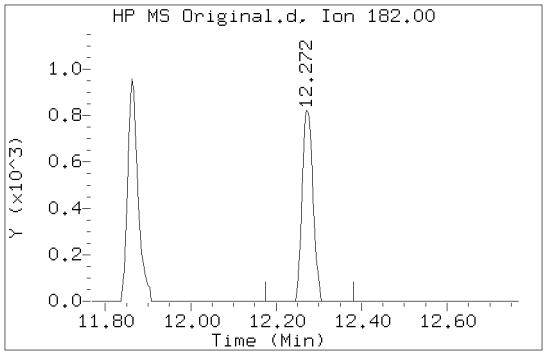
AFTER

MASS
180
AREA
1449
HEIGHT
845
21-Jun-2024
17:11
RUCHA
PATEL



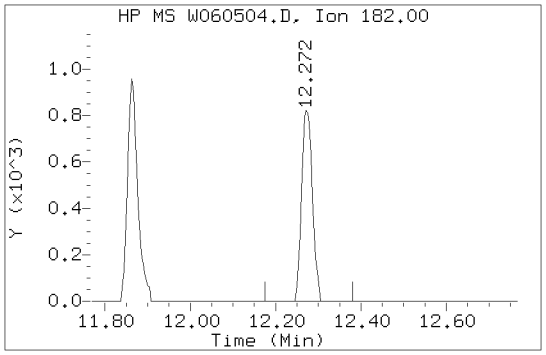
BEFORE

MASS
182
AREA
1484
HEIGHT
822
21-Jun-2024
17:11
RUCHA
PATEL



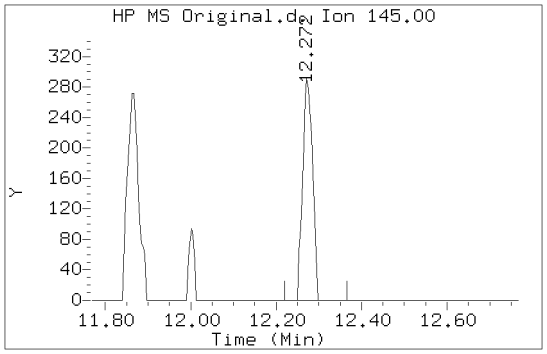
AFTER

MASS
182
AREA
1484
HEIGHT
822
21-Jun-2024
17:11
RUCHA
PATEL



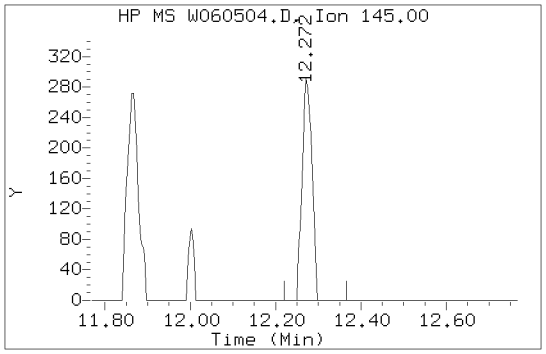
BEFORE

MASS
145
AREA
480
HEIGHT
291
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
145
AREA
480
HEIGHT
291
21-Jun-2024
17:11
RUCHA
PATEL



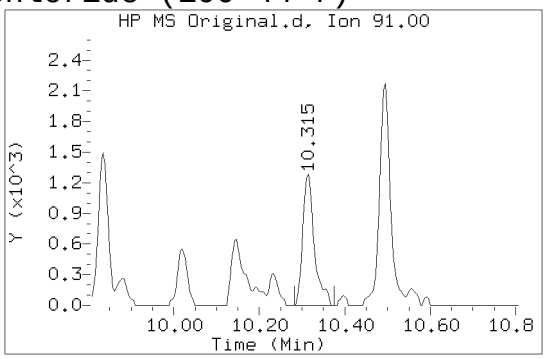
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060504.D
Inj Date : 05-JUN-2024 19:41
InstruID : VOA9.i
LabSampID : VSTD001

Benzyl Chloride (100-44-7)

Reason Code:

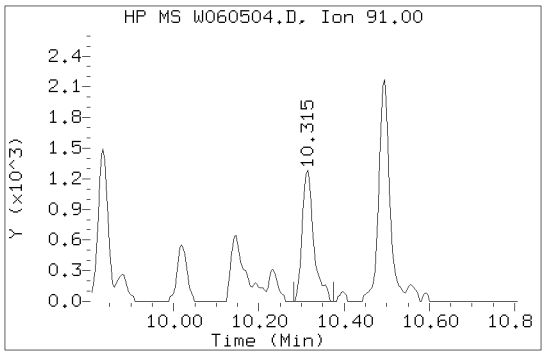
BEFORE

MASS
91
AREA
2454
HEIGHT
1286
21-Jun-2024
17:11
RUCHA
PATEL



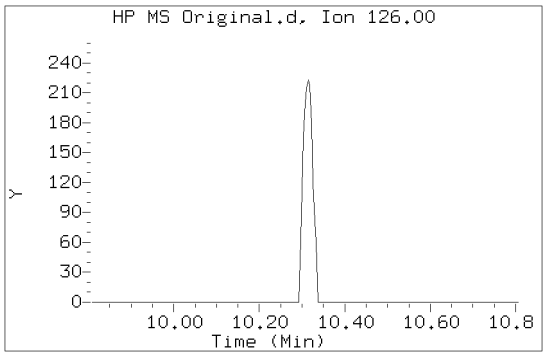
AFTER

MASS
91
AREA
2454
HEIGHT
1286
21-Jun-2024
17:11
RUCHA
PATEL



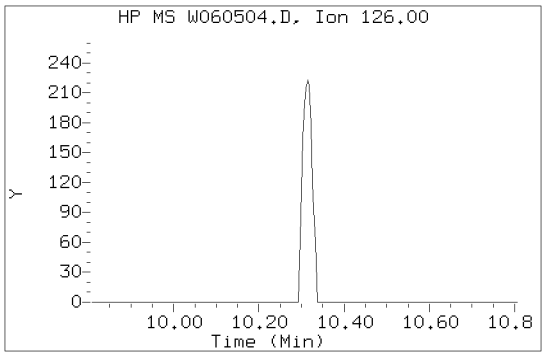
BEFORE

MASS
126
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



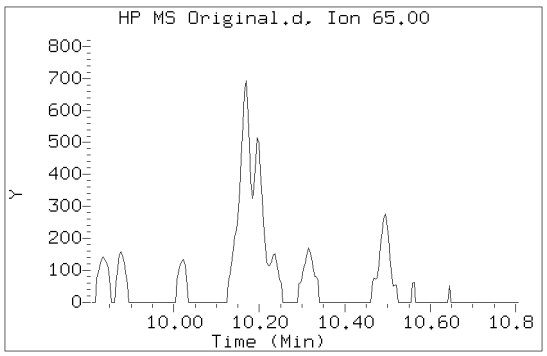
AFTER

MASS
126
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



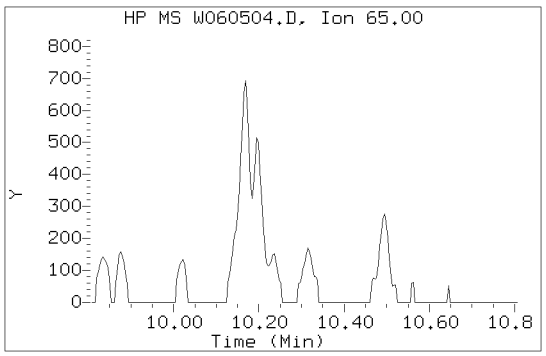
BEFORE

MASS
65
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
65
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

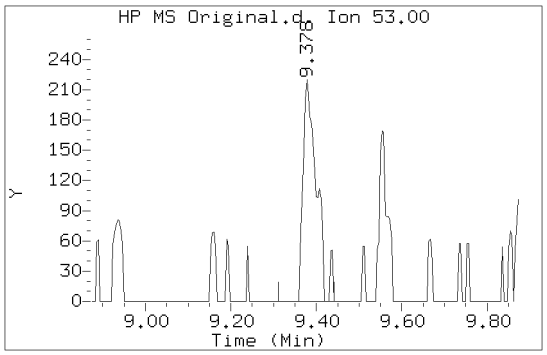


trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

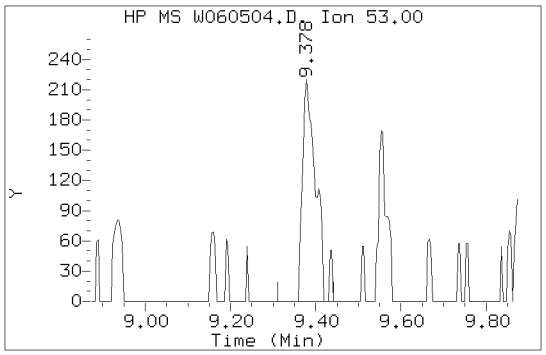
BEFORE

MASS
53
AREA
491
HEIGHT
220
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
53
AREA
491
HEIGHT
220
21-Jun-2024
17:11
RUCHA
PATEL



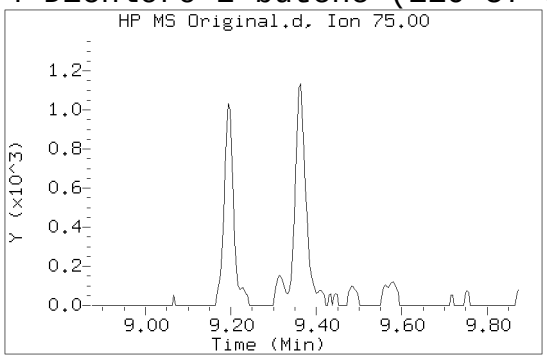
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Inj Date : 05-JUN-2024 19:41
InstruID : VOA9.i
LabSampID : VSTD001

trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

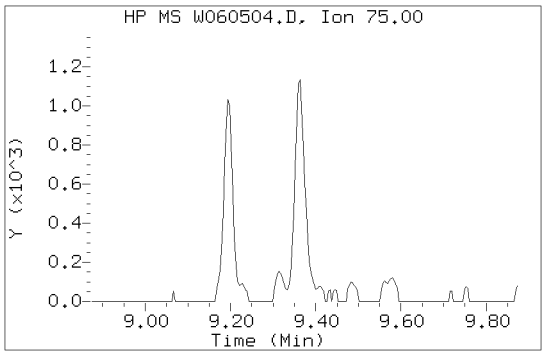
BEFORE

MASS
75
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
75
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

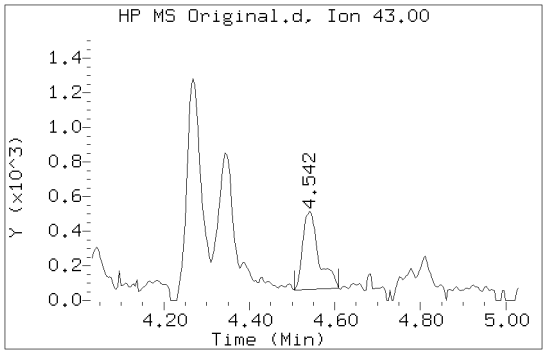


Ethyl Acetate (141-78-6)

Reason Code:

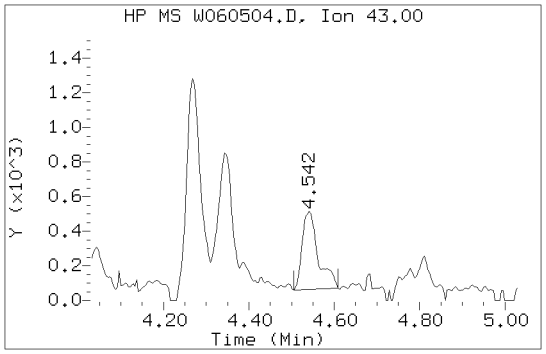
BEFORE

MASS
43
AREA
1204
HEIGHT
451
21-Jun-2024
17:11
RUCHA
PATEL



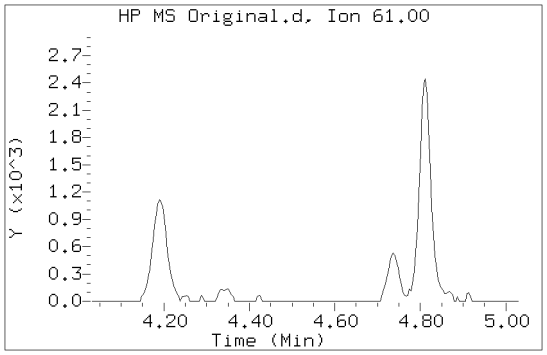
AFTER

MASS
43
AREA
1204
HEIGHT
451
21-Jun-2024
17:11
RUCHA
PATEL



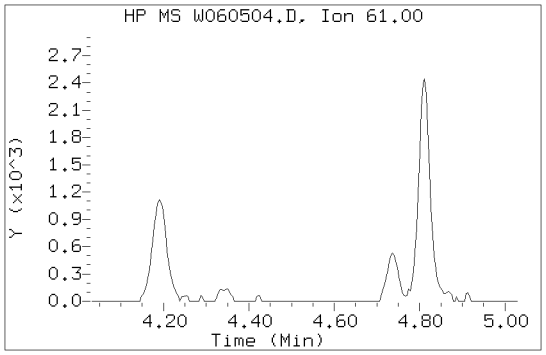
BEFORE

MASS
61
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



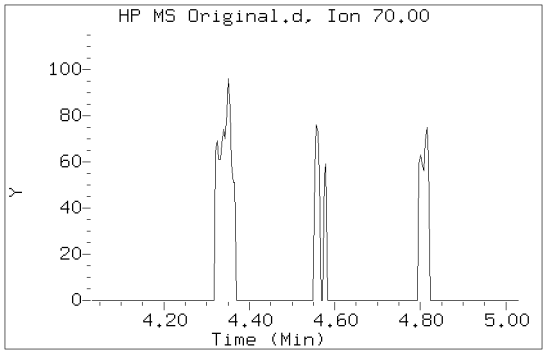
AFTER

MASS
61
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



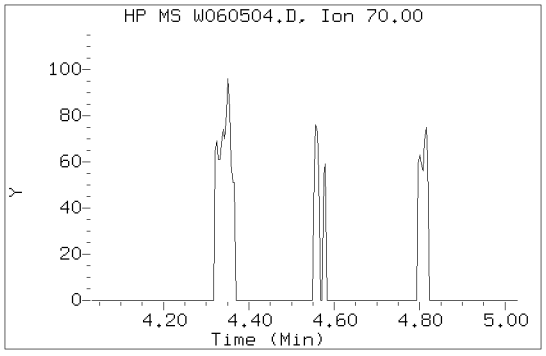
BEFORE

MASS
70
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
70
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



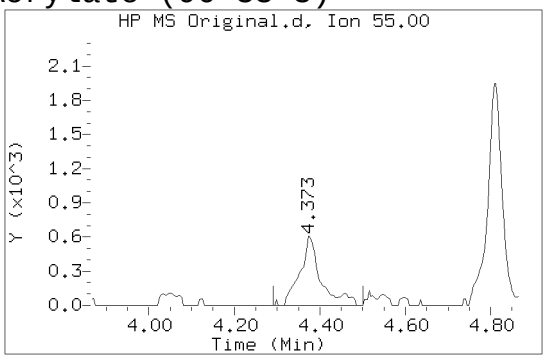
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Inj Date : 05-JUN-2024 19:41
InstruID : VOA9.i
LabSampID : VSTD001

Methyl Acrylate (96-33-3)

Reason Code:

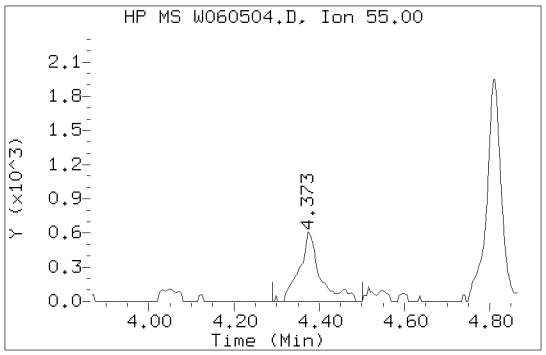
BEFORE

MASS
55
AREA
2072
HEIGHT
606
21-Jun-2024
17:11
RUCHA
PATEL



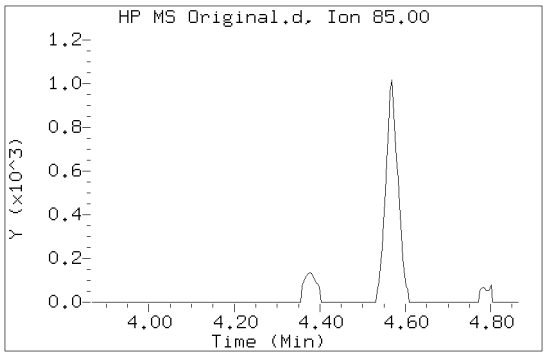
AFTER

MASS
55
AREA
2072
HEIGHT
606
21-Jun-2024
17:11
RUCHA
PATEL



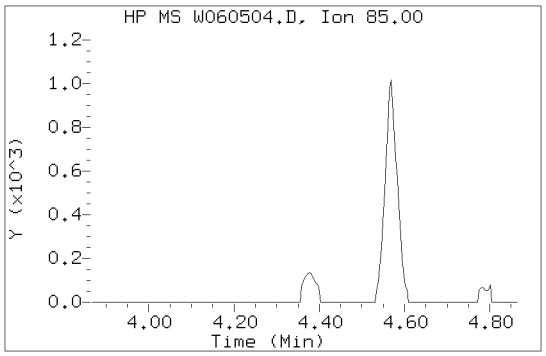
BEFORE

MASS
85
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
85
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

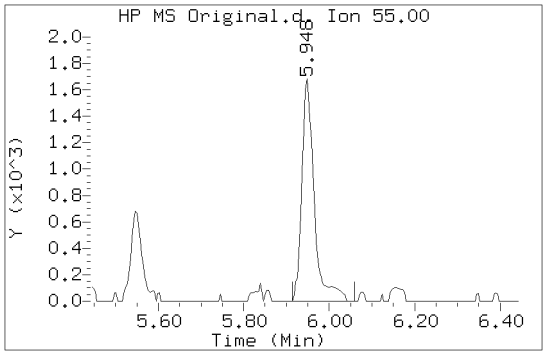


Ethyl Acrylate (140-88-5)

Reason Code:

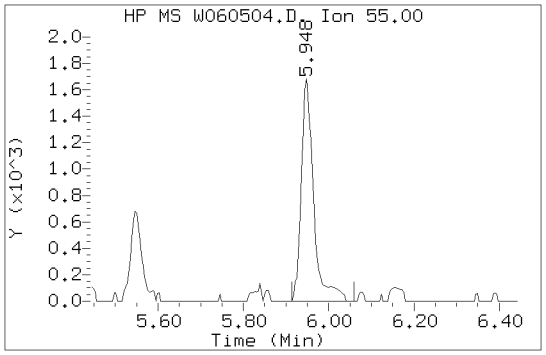
BEFORE

MASS
55
AREA
3457
HEIGHT
1682
21-Jun-2024
17:11
RUCHA
PATEL



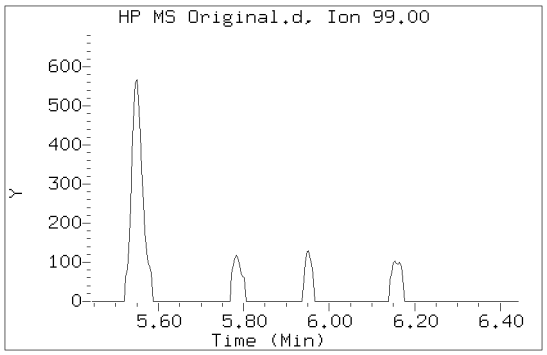
AFTER

MASS
55
AREA
3457
HEIGHT
1682
21-Jun-2024
17:11
RUCHA
PATEL



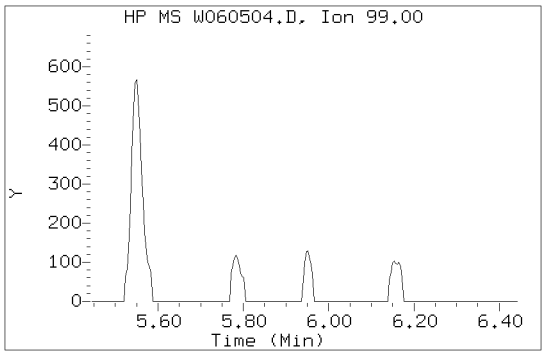
BEFORE

MASS
99
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
99
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

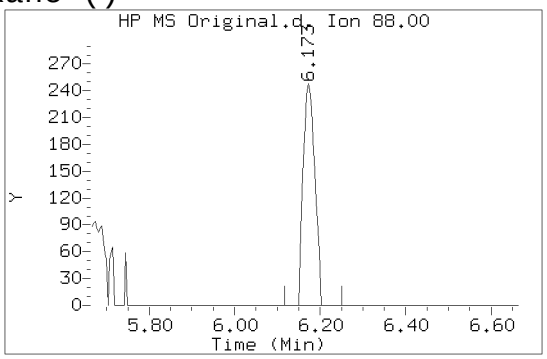


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Inj Date : 05-JUN-2024 19:41
InstruID : VOA9.i
LabSampID : VSTD001

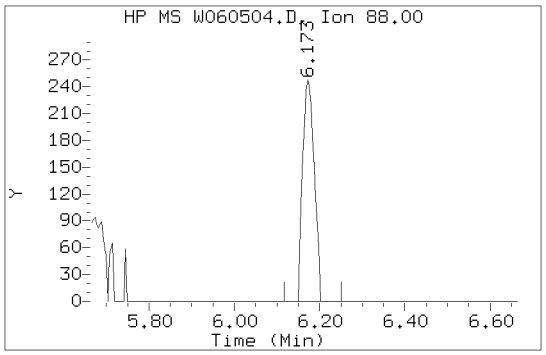
1,4-Dioxane ()

Reason Code:

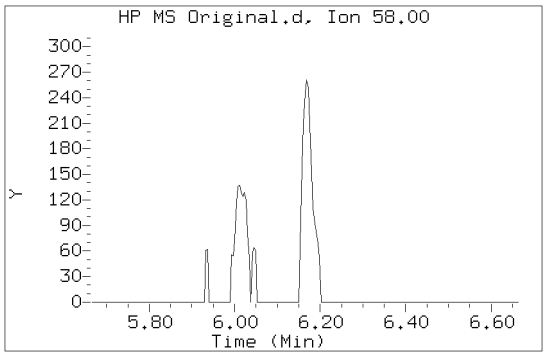
BEFORE
MASS
88
AREA
475
HEIGHT
248
21-Jun-2024
17:11
RUCHA
PATEL



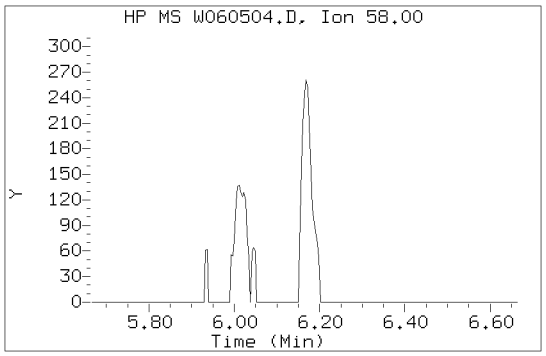
AFTER
MASS
88
AREA
475
HEIGHT
248
21-Jun-2024
17:11
RUCHA
PATEL



BEFORE
MASS
58
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



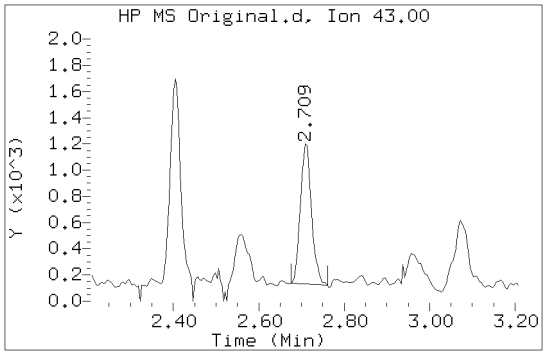
AFTER
MASS
58
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



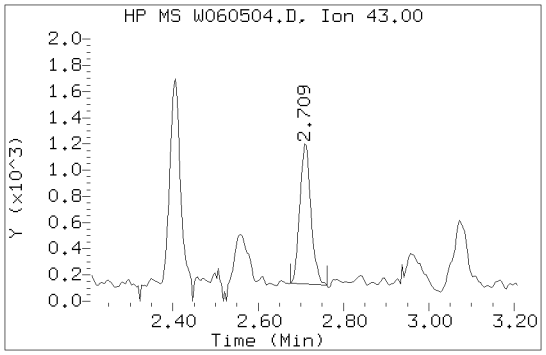
Methyl acetate (79-20-9)

Reason Code:

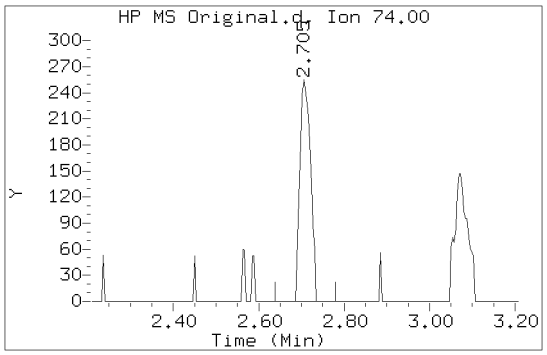
BEFORE
MASS
43
AREA
1979
HEIGHT
1069
21-Jun-2024
17:11
RUCHA
PATEL



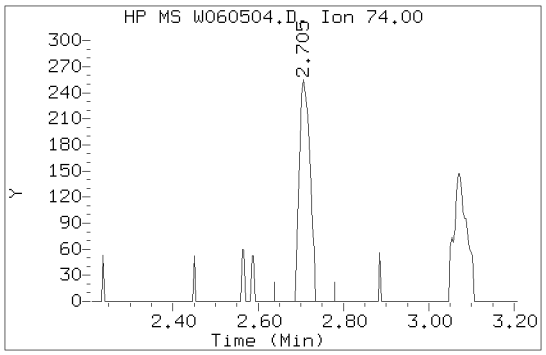
AFTER
MASS
43
AREA
1979
HEIGHT
1069
21-Jun-2024
17:11
RUCHA
PATEL



BEFORE
MASS
74
AREA
452
HEIGHT
255
21-Jun-2024
17:11
RUCHA
PATEL



AFTER
MASS
74
AREA
452
HEIGHT
255
21-Jun-2024
17:11
RUCHA
PATEL



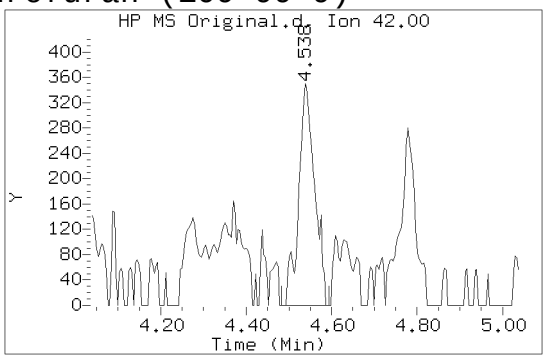
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Inj Date : 05-JUN-2024 19:41
InstruID : VOA9.i
LabSampID : VSTD001

Tetrahydrofuran (109-99-9)

Reason Code:

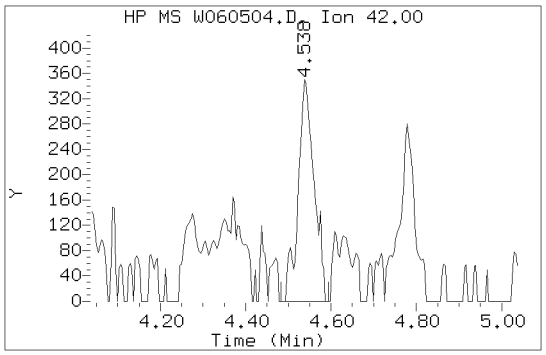
BEFORE

MASS
42
AREA
920
HEIGHT
350
21-Jun-2024
17:11
RUCHA
PATEL



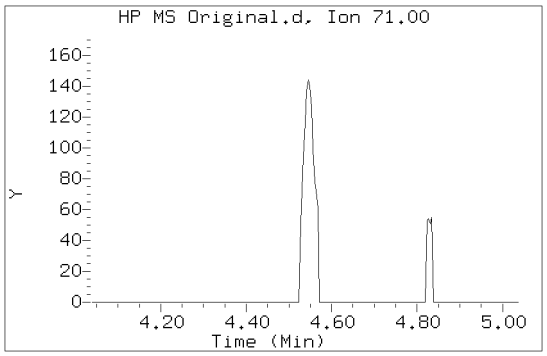
AFTER

MASS
42
AREA
920
HEIGHT
350
21-Jun-2024
17:11
RUCHA
PATEL



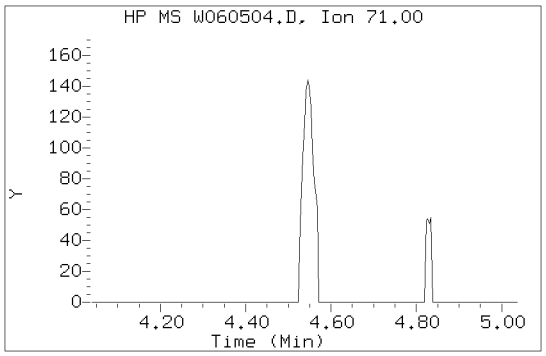
BEFORE

MASS
71
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
71
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

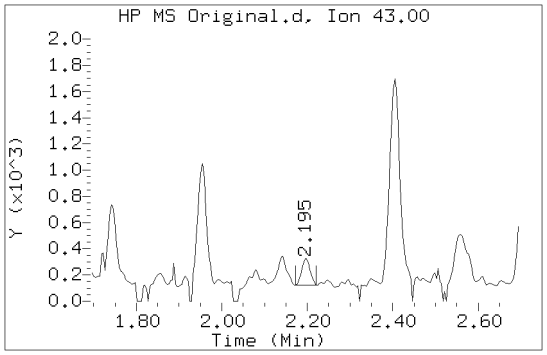


Propylene oxide ()

Reason Code:

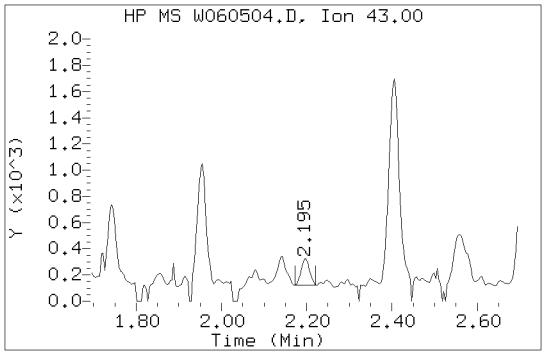
BEFORE

MASS
43
AREA
287
HEIGHT
203
21-Jun-2024
17:11
RUCHA
PATEL



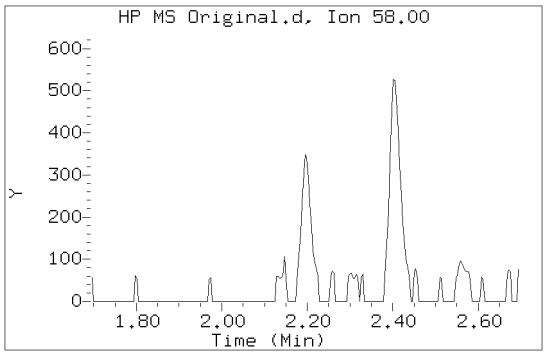
AFTER

MASS
43
AREA
287
HEIGHT
203
21-Jun-2024
17:11
RUCHA
PATEL



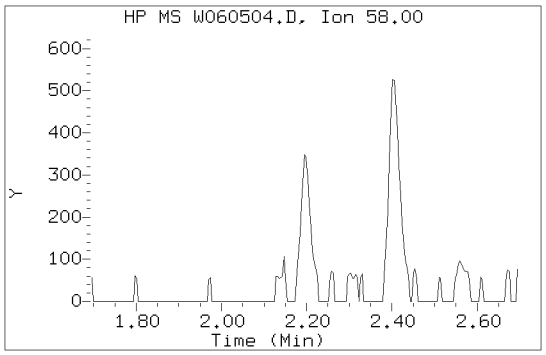
BEFORE

MASS
58
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
58
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

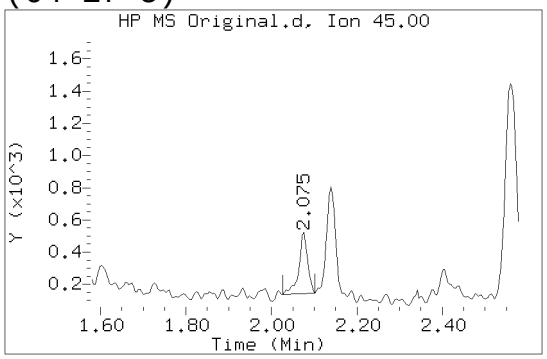


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060504.D
Inj Date : 05-JUN-2024 19:41
InstruID : VOA9.i
LabSampID : VSTD001

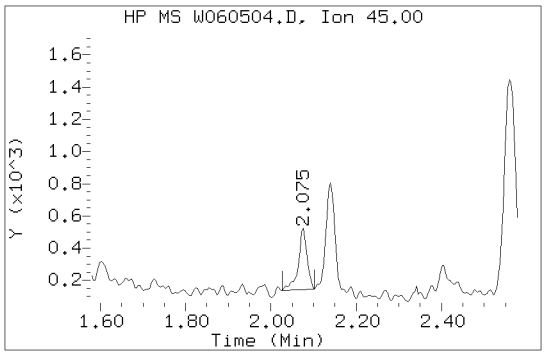
Ethanol (64-17-5)

Reason Code:

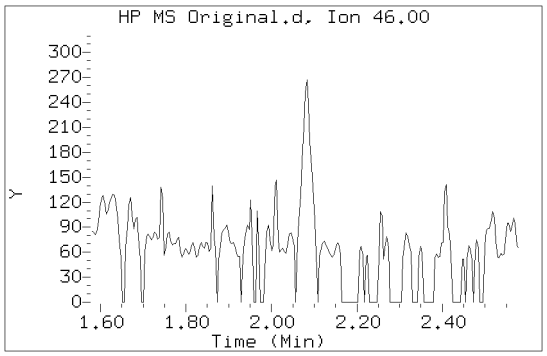
BEFORE
MASS
45
AREA
550
HEIGHT
380
21-Jun-2024
17:11
RUCHA
PATEL



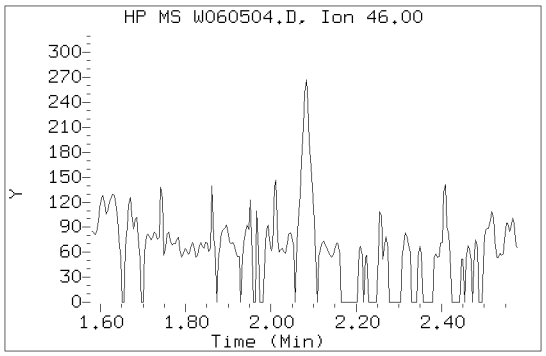
AFTER
MASS
45
AREA
550
HEIGHT
380
21-Jun-2024
17:11
RUCHA
PATEL



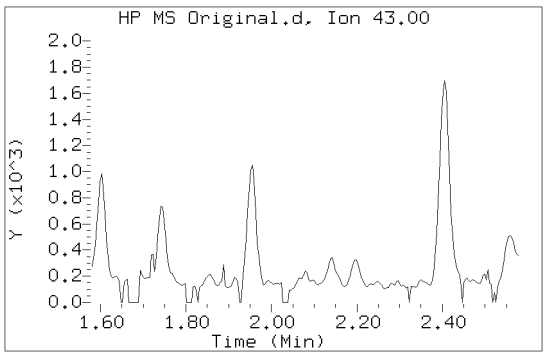
BEFORE
MASS
46
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



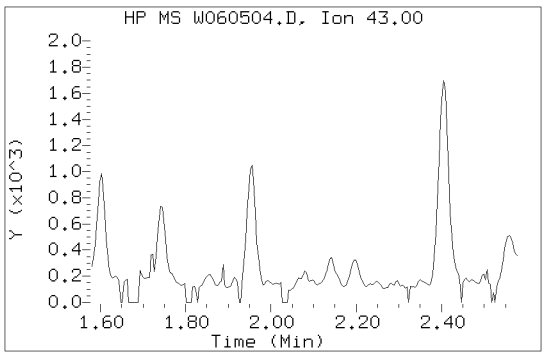
AFTER
MASS
46
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



BEFORE
MASS
43
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



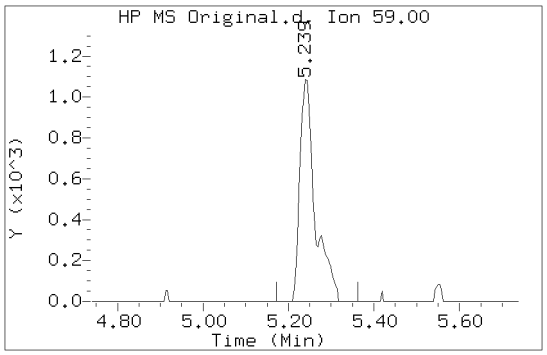
AFTER
MASS
43
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



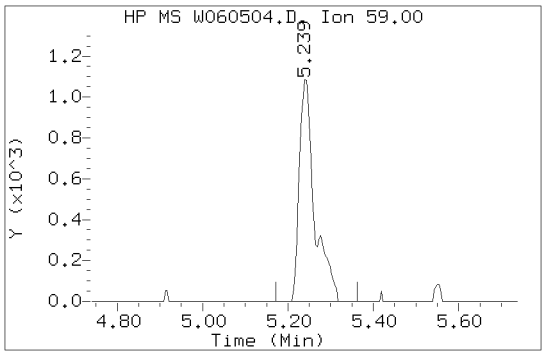
tert-Butyl formate (762-75-4)

Reason Code:

BEFORE
MASS
59
AREA
2752
HEIGHT
1085
21-Jun-2024
17:11
RUCHA
PATEL



AFTER
MASS
59
AREA
2752
HEIGHT
1085
21-Jun-2024
17:11
RUCHA
PATEL

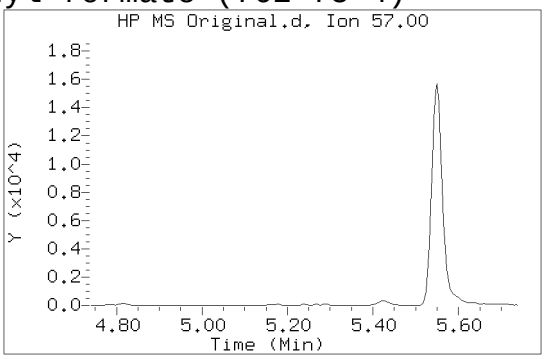


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060504.D
Inj Date : 05-JUN-2024 19:41
InstruID : VOA9.i
LabSampID : VSTD001

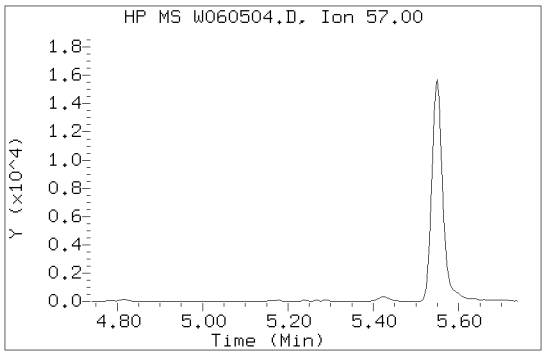
tert-Butyl formate (762-75-4)

Reason Code:

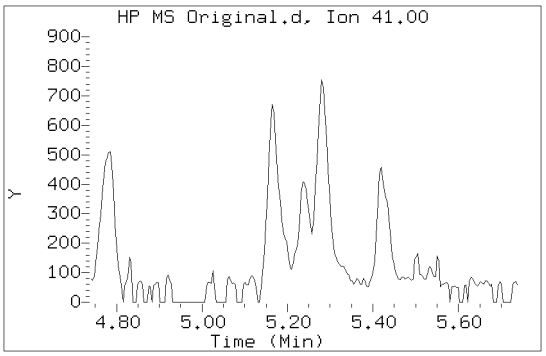
BEFORE
MASS
57
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



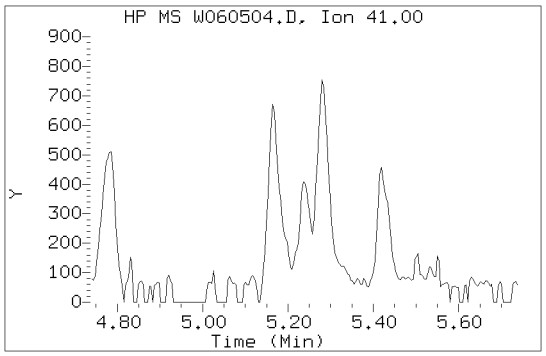
AFTER
MASS
57
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



BEFORE
MASS
41
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



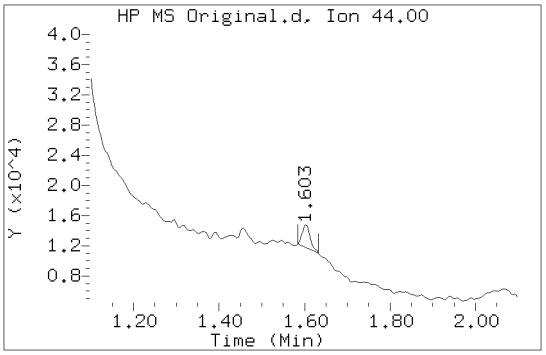
AFTER
MASS
41
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



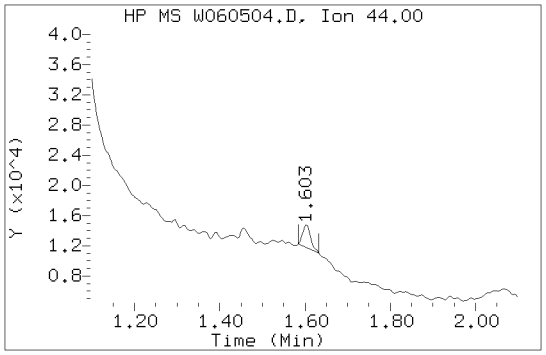
Ethylene oxide (75-21-8)

Reason Code:

BEFORE
MASS
44
AREA
4017
HEIGHT
3031
21-Jun-2024
17:11
RUCHA
PATEL



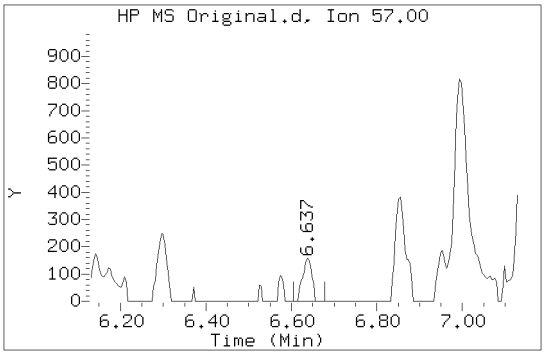
AFTER
MASS
44
AREA
4017
HEIGHT
3031
21-Jun-2024
17:11
RUCHA
PATEL



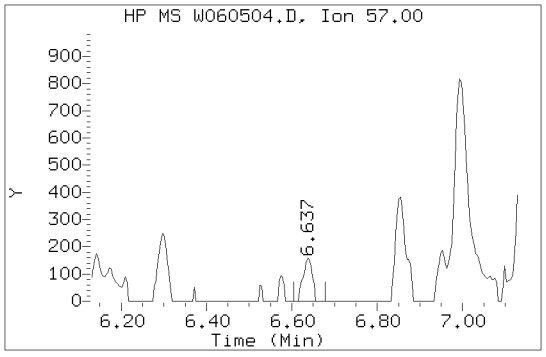
Epichlorohydrin (106-89-8)

Reason Code:

BEFORE
MASS
57
AREA
238
HEIGHT
158
21-Jun-2024
17:11
RUCHA
PATEL



AFTER
MASS
57
AREA
238
HEIGHT
158
21-Jun-2024
17:11
RUCHA
PATEL



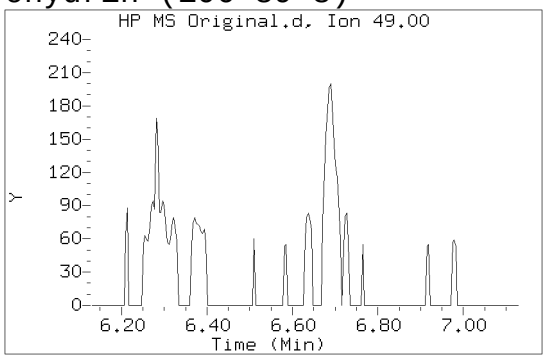
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060504.D
Inj Date : 05-JUN-2024 19:41
InstruID : VOA9.i
LabSampID : VSTD001

Epichlorohydrin (106-89-8)

Reason Code:

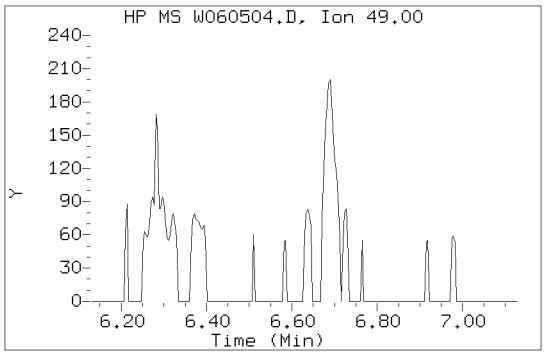
BEFORE

MASS
49
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
49
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

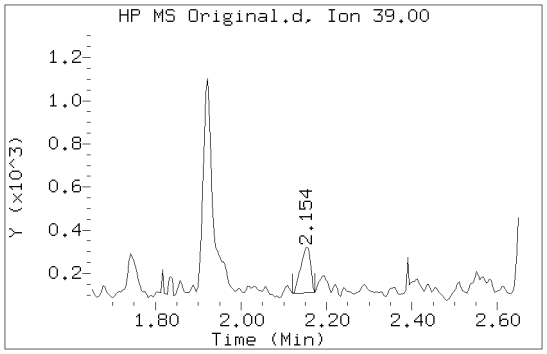


Isoprene (78-79-5)

Reason Code:

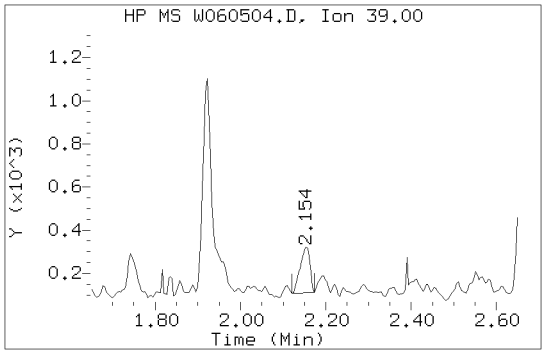
BEFORE

MASS
39
AREA
344
HEIGHT
211
21-Jun-2024
17:11
RUCHA
PATEL



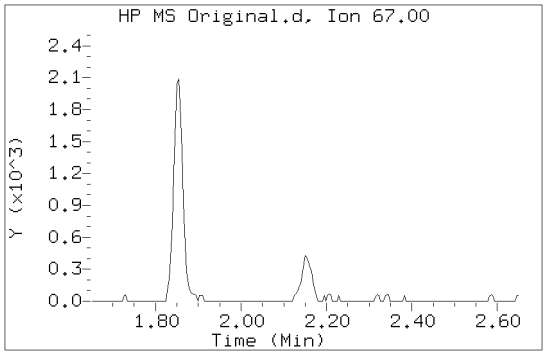
AFTER

MASS
39
AREA
344
HEIGHT
211
21-Jun-2024
17:11
RUCHA
PATEL



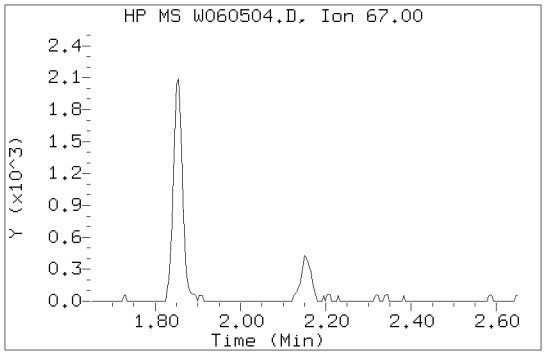
BEFORE

MASS
67
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



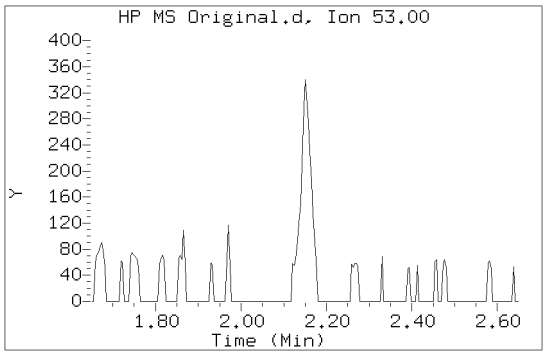
AFTER

MASS
67
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



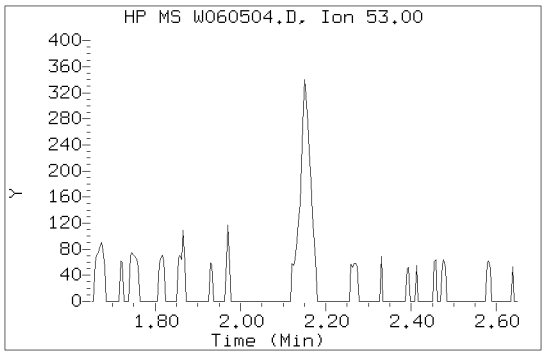
BEFORE

MASS
53
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
53
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



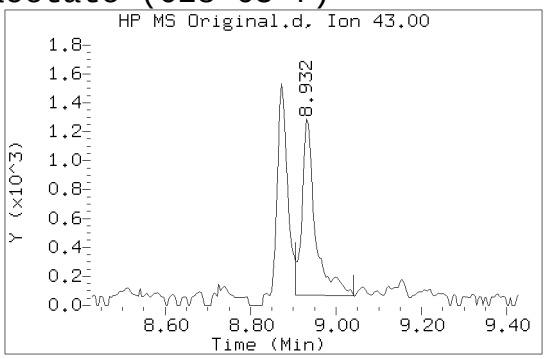
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Inj Date : 05-JUN-2024 19:41
InstruID : VOA9.i
LabSampID : VSTD001

n-Amyl acetate (628-63-7)

Reason Code:

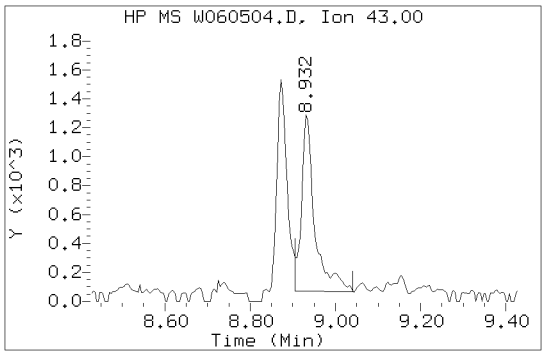
BEFORE

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17:11
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PATEL



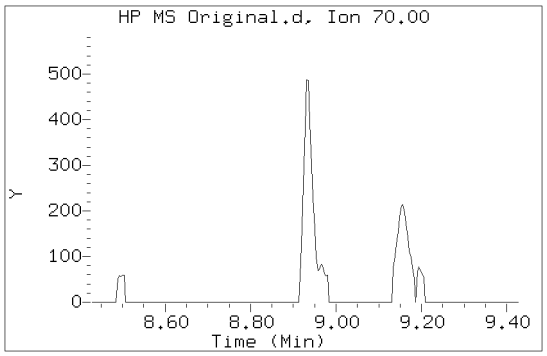
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2676
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17:11
RUCHA
PATEL



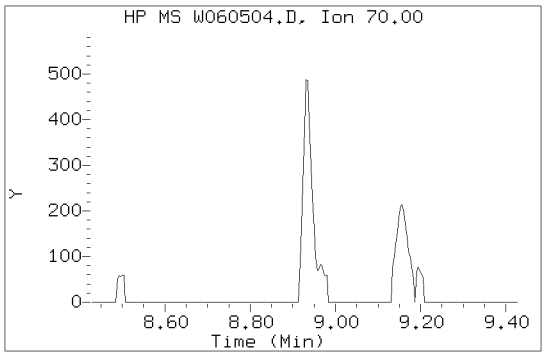
BEFORE

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21-Jun-2024
17:11
RUCHA
PATEL



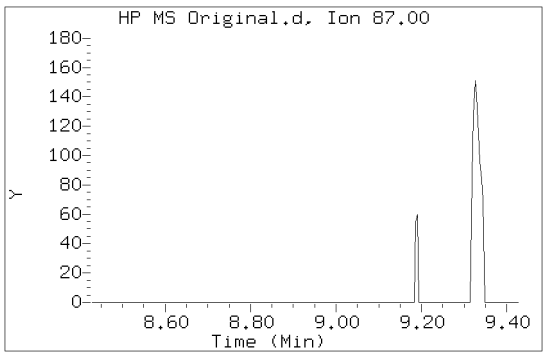
AFTER

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21-Jun-2024
17:11
RUCHA
PATEL



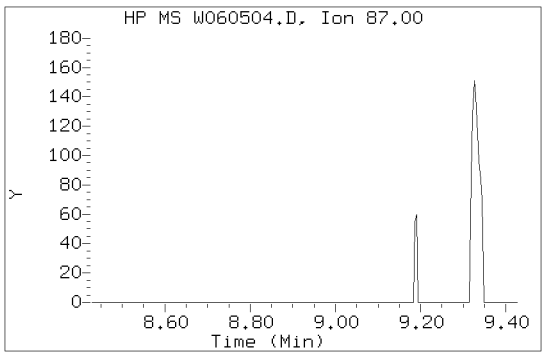
BEFORE

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0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
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AREA
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HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

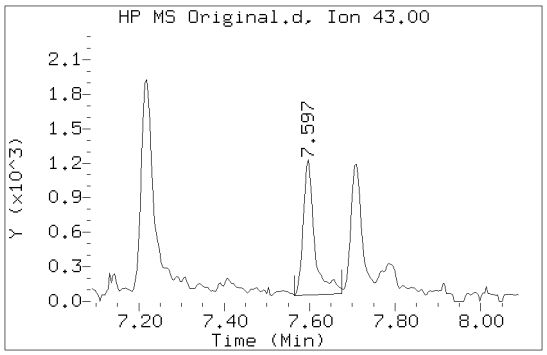


n-Butyl acetate (123-86-4)

Reason Code:

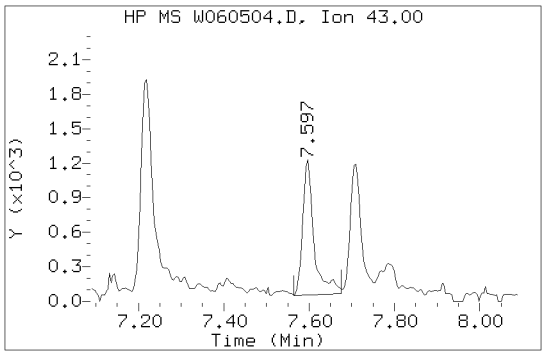
BEFORE

MASS
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AREA
2204
HEIGHT
1177
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

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43
AREA
2204
HEIGHT
1177
21-Jun-2024
17:11
RUCHA
PATEL



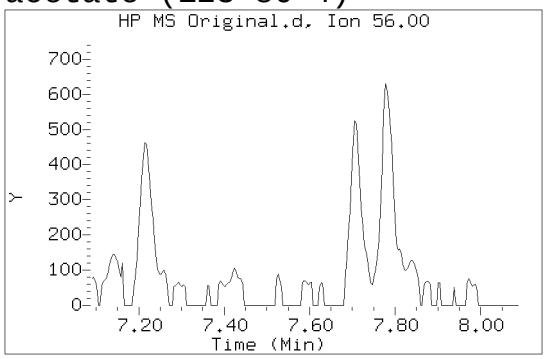
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Inj Date : 05-JUN-2024 19:41
InstruID : VOA9.i
LabSampID : VSTD001

n-Butyl acetate (123-86-4)

Reason Code:

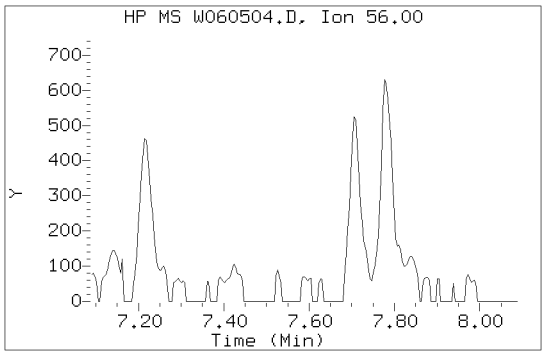
BEFORE

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HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



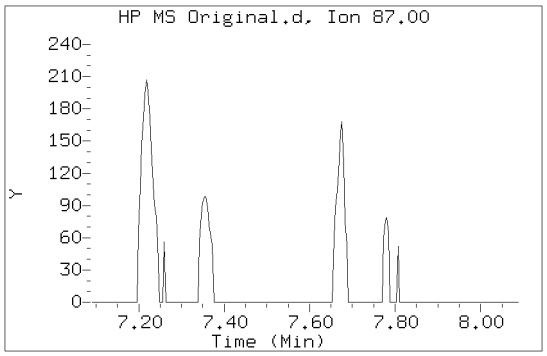
AFTER

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17:11
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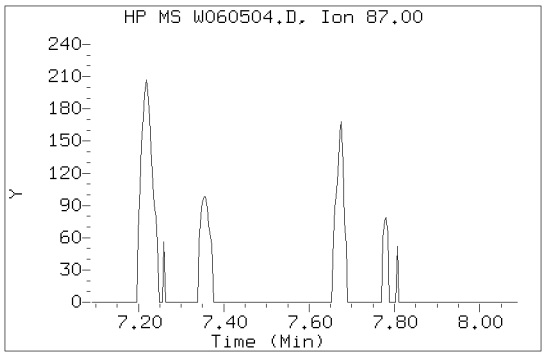
BEFORE

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HEIGHT
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21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
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AREA
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HEIGHT
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21-Jun-2024
17:11
RUCHA
PATEL

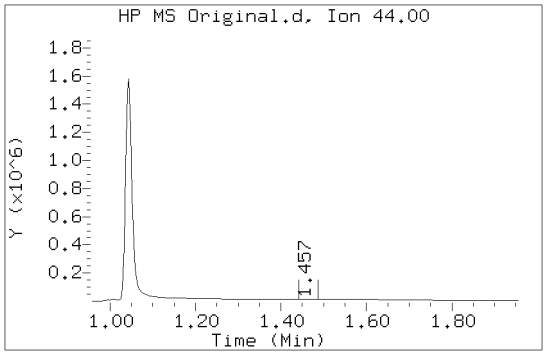


Acetaldehyde (75-07-0)

Reason Code:

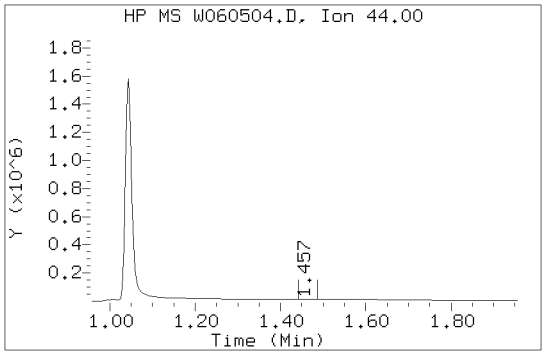
BEFORE

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AREA
1886
HEIGHT
1618
21-Jun-2024
17:11
RUCHA
PATEL



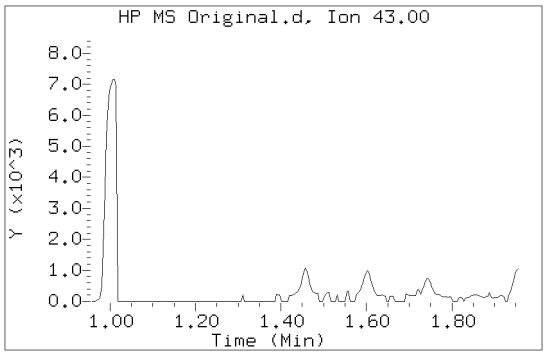
AFTER

MASS
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AREA
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HEIGHT
1618
21-Jun-2024
17:11
RUCHA
PATEL



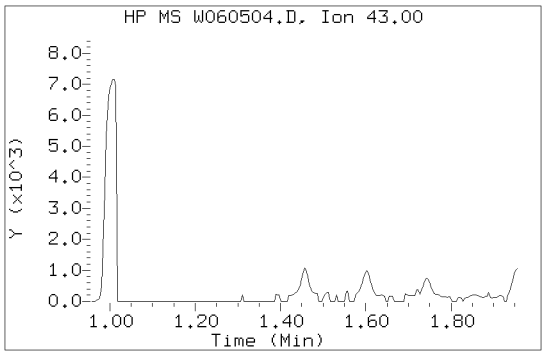
BEFORE

MASS
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AREA
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HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
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AREA
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HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



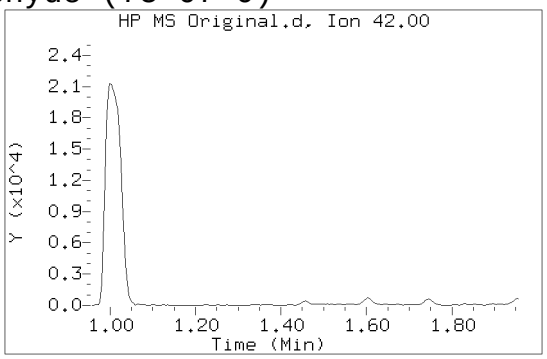
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Inj Date : 05-JUN-2024 19:41
InstruID : VOA9.i
LabSampID : VSTD001

Acetaldehyde (75-07-0)

Reason Code:

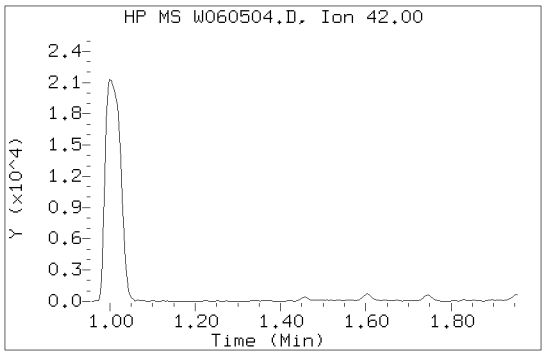
BEFORE

MASS
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AREA
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HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

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HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

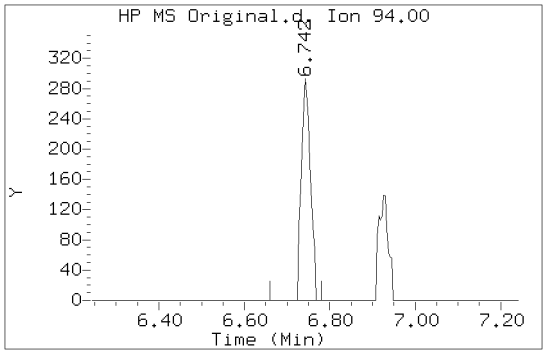


Dimethyl Disulfide (624-92-0)

Reason Code:

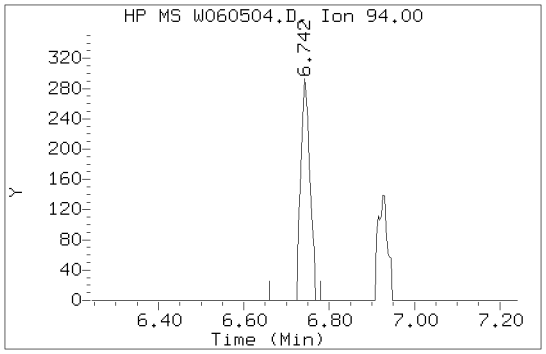
BEFORE

MASS
94
AREA
446
HEIGHT
293
21-Jun-2024
17:11
RUCHA
PATEL



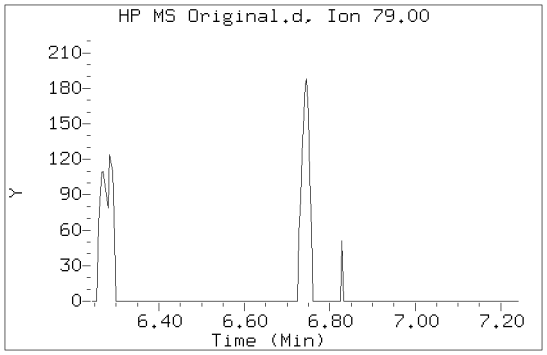
AFTER

MASS
94
AREA
446
HEIGHT
293
21-Jun-2024
17:11
RUCHA
PATEL



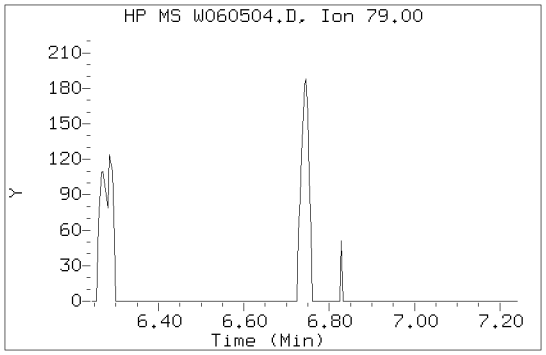
BEFORE

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HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



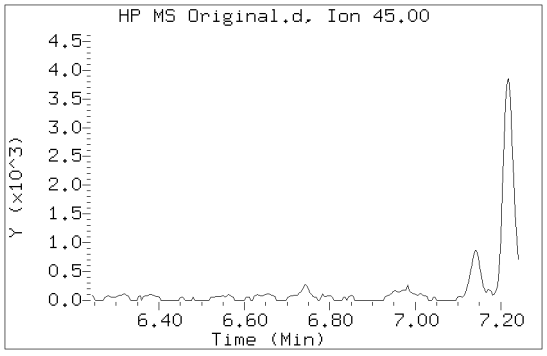
AFTER

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21-Jun-2024
17:11
RUCHA
PATEL



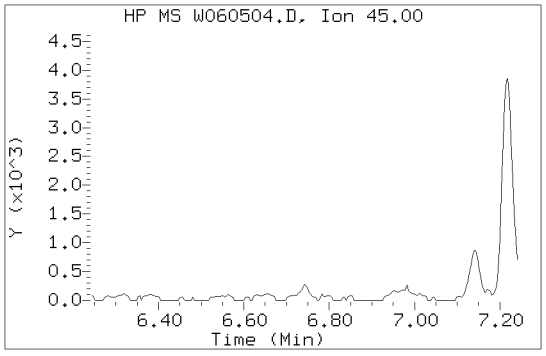
BEFORE

MASS
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HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
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AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

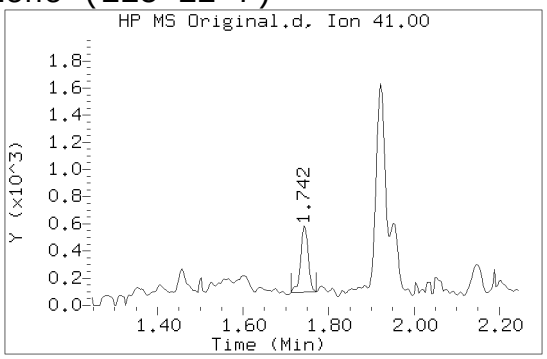


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Inj Date : 05-JUN-2024 19:41
InstruID : VOA9.i
LabSampID : VSTD001

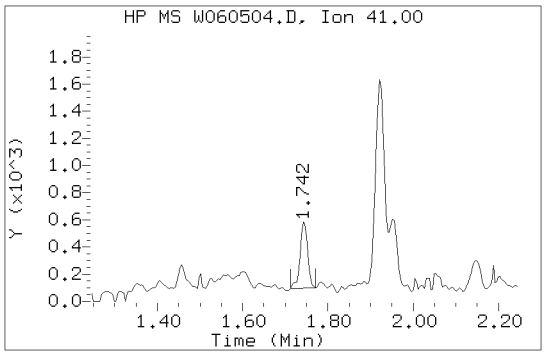
Isobutylene (115-11-7)

Reason Code:

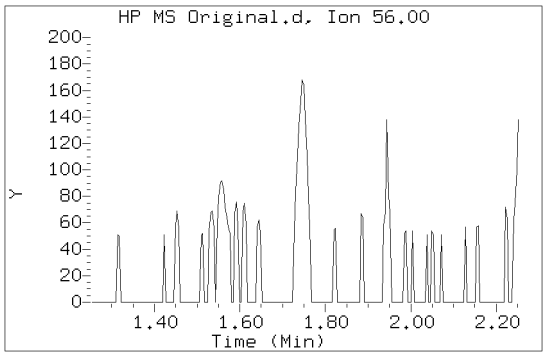
BEFORE
MASS
41
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612
HEIGHT
487
21-Jun-2024
17:11
RUCHA
PATEL



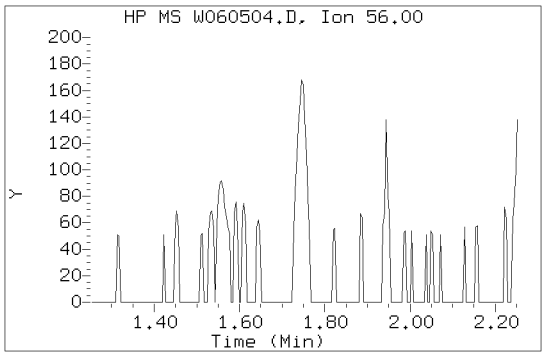
AFTER
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AREA
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HEIGHT
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21-Jun-2024
17:11
RUCHA
PATEL



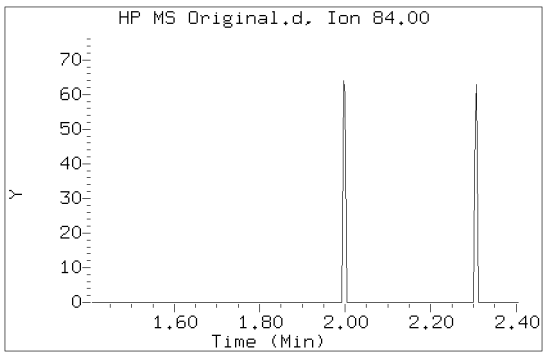
BEFORE
MASS
56
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21-Jun-2024
17:11
RUCHA
PATEL



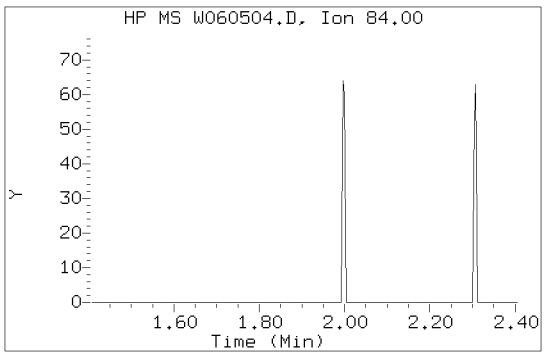
AFTER
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HEIGHT
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21-Jun-2024
17:11
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PATEL



BEFORE
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0
21-Jun-2024
17:11
RUCHA
PATEL



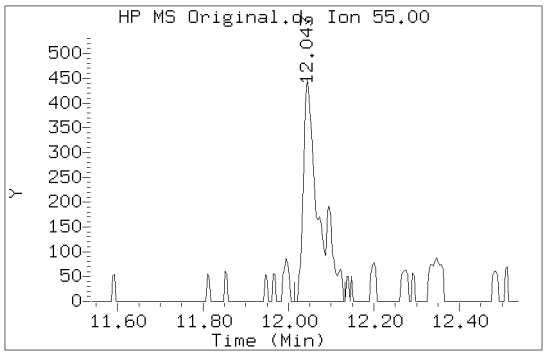
AFTER
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21-Jun-2024
17:11
RUCHA
PATEL



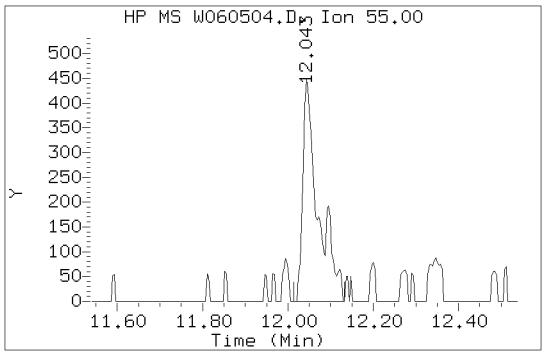
2-Ethylhexyl Acrylate (103-11-7)

Reason Code:

BEFORE
MASS
55
AREA
1138
HEIGHT
447
21-Jun-2024
17:11
RUCHA
PATEL



AFTER
MASS
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AREA
1138
HEIGHT
447
21-Jun-2024
17:11
RUCHA
PATEL



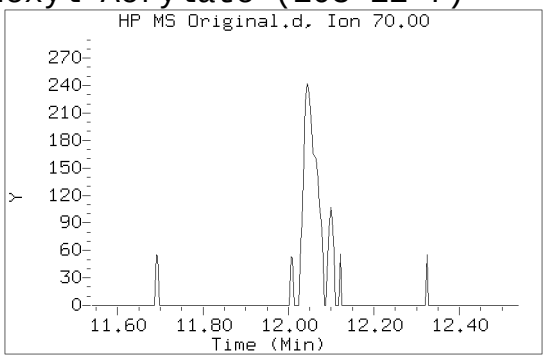
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060504.D
Inj Date : 05-JUN-2024 19:41
InstruID : VOA9.i
LabSampID : VSTD001

2-Ethylhexyl Acrylate (103-11-7)

Reason Code:

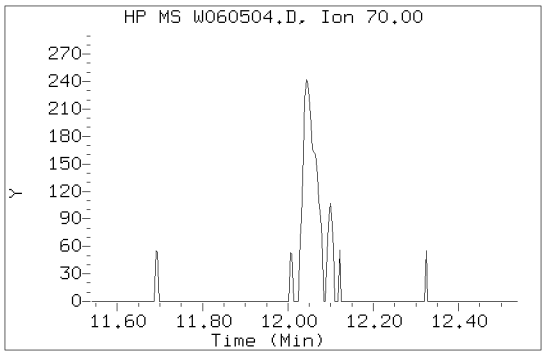
BEFORE

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70
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HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

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HEIGHT
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21-Jun-2024
17:11
RUCHA
PATEL

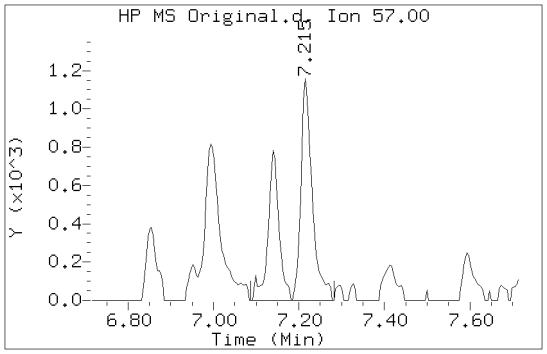


sec-Butyl Ether (6863-58-7)

Reason Code:

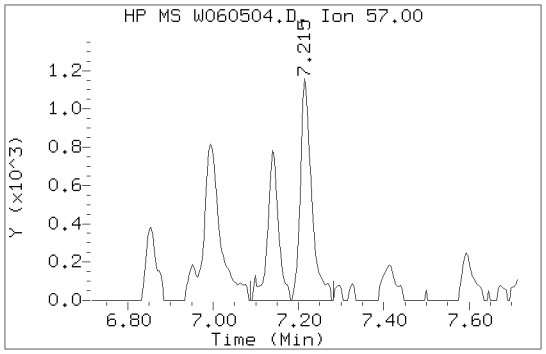
BEFORE

MASS
57
AREA
3578
HEIGHT
1158
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
57
AREA
3578
HEIGHT
1158
21-Jun-2024
17:11
RUCHA
PATEL



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060505.D Page 1
Report Date: 21-Jun-2024 17:11

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060505.D
Lab Smp Id: VSTD002 Client Smp ID: VSTD002
Inj Date : 05-JUN-2024 20:03
Operator : TS Inst ID: VOA9.i
Smp Info : VSTD002;VSTD002;1;4
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240605.b\8260C.m
Meth Date : 21-Jun-2024 17:11 VOA9.i Quant Type: ISTD
Cal Date : 05-JUN-2024 19:41 Cal File: W060504.D
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.819	4.819	(1.000)	198421	50.0000	
2	Dichlorodifluoromethane	85	1.171	1.171	(0.243)	728	2.00000	1.96
4	Propionitrile	54	4.347	4.347	(0.902)	4275	20.0000	23.62(a)
5	Vinyl Chloride	62	1.385	1.385	(0.287)	2075	2.00000	1.54
6	Bromomethane	94	1.625	1.625	(0.337)	2007	2.00000	2.76
7	Chloroethane	64	1.707	1.707	(0.354)	2264	2.00000	2.14
8	Trichlorofluoromethane	101	1.902	1.902	(0.395)	2350	2.00000	1.35
9	Acrolein	56	2.274	2.274	(0.472)	566	4.00000	4.90(aM)
10	Acetone	43	2.416	2.416	(0.501)	3897	4.00000	3.40
11	1,1-Dichloroethene	96	2.337	2.337	(0.485)	1773	2.00000	1.55
12	Isobutyl Alcohol	43	5.287	5.287	(1.097)	8161	40.0000	38.67(a)
13	Acetonitrile	39	2.678	2.678	(0.556)	3507	20.0000	23.06(a)
14	Allyl Chloride	41	2.678	2.678	(0.556)	8420	2.00000	2.33(a)
15	Iodomethane	142	2.472	2.472	(0.513)	1359	4.00000	3.90(T)
16	Acrylonitrile	53	3.076	3.076	(0.638)	2585	4.00000	3.78
17	Methylene Chloride	84	2.802	2.802	(0.582)	4211	2.00000	1.76
18	Methyl tert-butyl ether	73	3.083	3.083	(0.640)	8274	2.00000	2.40
19	Carbon Disulfide	76	2.525	2.525	(0.524)	10663	4.00000	3.26
20	trans-1,2-Dichloroethene	96	3.064	3.064	(0.636)	2486	2.00000	2.11
21	Vinyl Acetate	43	4.350	4.350	(0.903)	2901	4.00000	4.17(M)

22 1,1-Dichloroethane	63	3.514	3.514 (0.729)	5205	2.00000	1.87
23 Chloroprene	53	3.616	3.616 (0.750)	3513	2.00000	1.73(a)

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060505.D Page 2
Report Date: 21-Jun-2024 17:11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	24 2-Butanone	43	4.275	4.275	(0.887)	4205	4.00000	5.02
	25 Methacrylonitrile	41	4.511	4.511	(0.936)	1556	2.00000	3.19(aM)
	26 2,2-Dichloropropane	77	4.189	4.189	(0.869)	2796	2.00000	1.65
	27 cis-1,2-Dichloroethene	96	4.200	4.200	(0.872)	3282	2.00000	2.40
	28 Chloroform	83	4.575	4.575	(0.949)	5244	2.00000	2.00
	29 Bromochloromethane	128	4.470	4.470	(0.928)	1634	2.00000	1.79
$	30 Dibromofluoromethane	113	4.751	4.751	(0.986)	3237	2.00000	2.26
	31 1,1,1-Trichloroethane	97	4.744	4.744	(0.984)	3146	2.00000	1.67
	32 1,1-Dichloropropene	75	4.924	4.924	(0.887)	3251	2.00000	1.73
	33 1,2-Dichloroethane	62	5.179	5.179	(0.933)	4597	2.00000	1.66
	34 Carbon Tetrachloride	117	4.913	4.913	(0.885)	2164	2.00000	1.39
$	35 1,2-Dichloroethane-d4	65	5.100	5.100	(1.058)	4467	2.00000	2.56
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	290840	50.0000	
	37 Benzene	78	5.141	5.141	(0.926)	11775	2.00000	2.25
	38 Trichloroethene	130	5.790	5.790	(1.043)	2657	2.00000	1.83(a)
	39 Bromodichloromethane	83	6.277	6.277	(1.130)	3145	2.00000	1.82(aM)
	40 Methyl Methacrylate	41	5.831	5.831	(1.210)	1485	2.00000	4.62(a)
	41 2-Chloroethylvinyl ether	63	6.581	6.581	(1.185)	675	4.00000	7.85(M)
	42 1,2-Dichloropropane	63	6.011	6.011	(1.082)	3585	2.00000	2.25(a)
	43 2-Nitropropane	43	6.506	6.506	(1.350)	495	2.00000	1.73(TaM)
	44 Dibromomethane	93	6.120	6.120	(1.102)	1788	2.00000	1.83(a)
	45 4-Methyl-2-Pentanone	43	6.854	6.854	(0.837)	5646	4.00000	6.11
	46 cis-1,3-Dichloropropene	75	6.693	6.693	(1.205)	3116	2.00000	3.77(a)
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	258947	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	11768	2.00000	2.26(a)
	49 Ethyl Methacrylate	69	7.293	7.293	(1.313)	3136	2.00000	1.66(a)
	50 Toluene	91	6.982	6.982	(0.853)	10514	2.00000	1.81(a)
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	2198	2.00000	3.73(a)
	52 2-Hexanone	43	7.218	7.218	(0.882)	6307	4.00000	4.47(a)
	53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	2412	2.00000	1.99(a)
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	4929	2.00000	2.03(a)
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	1913	2.00000	3.24(a)
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	1956	2.00000	1.74(a)
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	2307	2.00000	2.33(a)
	58 1-Chlorohexane	55	8.185	8.185	(1.474)	4419	2.00000	3.48(a)
	59 Chlorobenzene	112	8.208	8.208	(1.003)	8144	2.00000	2.12(a)
	60 1,1,1,2-Tetrachloroethane	131	8.279	8.279	(1.011)	2323	2.00000	1.85(a)
	61 Ethylbenzene	106	8.305	8.305	(1.015)	3235	2.00000	1.75(a)
	62 m,p-Xylenes	106	8.406	8.406	(1.027)	7934	4.00000	3.45(a)
	63 o-Xylene	106	8.747	8.747	(1.069)	3893	2.00000	1.75(a)
	64 Styrene	104	8.762	8.762	(1.071)	6104	2.00000	1.69(a)
	66 Bromoform	173	8.920	8.920	(1.090)	1212	2.00000	4.80(aM)
	67 Isopropylbenzene	105	9.059	9.059	(1.107)	8673	2.00000	1.64(a)
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	4084	2.00000	2.04(aM)
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	4677	2.00000	2.48(a)
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	133881	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.921)	3957	2.00000	3.38(a)
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	824	2.00000	2.70(a)
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	9692	2.00000	1.59(a)
	74 Bromobenzene	156	9.317	9.317	(0.916)	3263	2.00000	2.43(a)
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	6298	2.00000	1.57(a)
	76 2-Chlorotoluene	91	9.482	9.482	(0.933)	7285	2.00000	1.84(a)

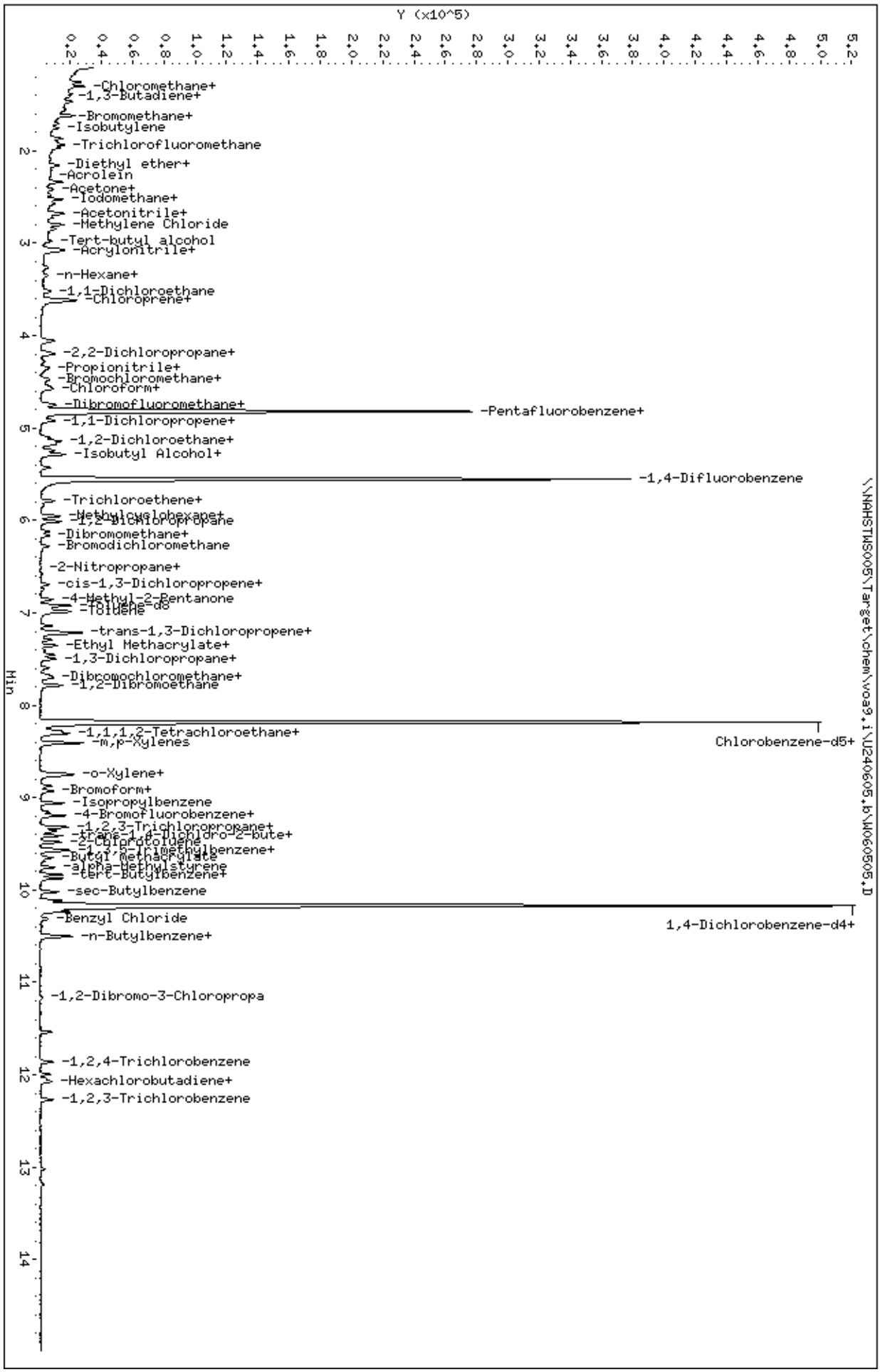
77 4-Chlorotoluene	91	9.576	9.576 (0.942)	8752	2.00000	1.92(a)
78 tert-Butylbenzene	119	9.835	9.835 (0.967)	5853	2.00000	1.59(a)

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060505.D Page 3
Report Date: 21-Jun-2024 17:11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	6978	2.00000	1.68(a)
81	sec-Butylbenzene	105	10.022	10.022	(0.986)	7262	2.00000	1.49(a)
82	p-Isopropyltoluene	119	10.142	10.142	(0.997)	6255	2.00000	1.52(a)
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	5491	2.00000	1.94(a)
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	7121	2.00000	2.40(a)
86	Benzyl Chloride	91	10.314	10.314	(1.260)	3116	2.00000	3.21(aM)
87	n-Butylbenzene	91	10.491	10.491	(1.032)	5174	2.00000	2.93(a)
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	5496	2.00000	2.06(a)
89	1,2-Dibromo-3-Chloropropane	155	11.162	11.162	(1.098)	293	2.00000	2.82(aM)
90	1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	2921	2.00000	3.34(a)
91	Hexachlorobutadiene	225	11.998	11.998	(1.180)	1200	2.00000	1.56(a)
92	Naphthalene	128	12.073	12.073	(1.187)	5312	2.00000	3.10(a)
93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.207)	2781	2.00000	1.80(a)
146	Methyl acetate	43	2.720	2.720	(0.564)	4003	2.00000	1.35(a)
138	Freon TF	101	2.337	2.337	(0.485)	1275	2.00000	1.30(a)
141	Cyclohexane	56	4.815	4.815	(0.999)	5707	2.00000	3.43(a)
142	Tetrahydrofuran	42	4.549	4.549	(0.944)	1871	4.00000	6.42(M)
147	Methylcyclohexane	55	5.951	5.951	(1.072)	6035	2.00000	1.80(a)
135	1,4-Dioxane	88	6.176	6.176	(1.282)	711	40.0000	47.70(M)
132	n-Butanol	56	5.831	5.831	(1.210)	1478	40.0000	88.39(a)
136	n-Hexane	57	3.349	3.349	(0.695)	1625	2.00000	1.92(a)
139	Diethyl ether	59	2.154	2.154	(0.447)	2314	2.00000	2.28(a)
148	Tert-butyl alcohol	59	2.975	2.975	(0.617)	5671	40.0000	54.96
149	Isopropyl alcohol	45	2.570	2.570	(0.533)	4239	40.0000	50.58(T)
156	Diisopropyl ether	45	3.627	3.627	(0.753)	11586	2.00000	2.81(Ta)
162	Butyl acrylate	55	8.736	8.736	(1.067)	4541	2.00000	1.77(a)
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	15708	2.00000	3.37(a)
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	8207	2.00000	2.80(a)
167	Ethanol	45	2.090	2.090	(0.434)	938	40.0000	42.90(M)
172	tert-Butyl formate	59	5.242	5.242	(1.088)	4441	4.00000	4.29(aM)
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.299)	12146	40.0000	82.02
140	1,3-Butadiene	54	1.411	1.411	(0.293)	979	2.00000	1.96(a)
182	Epichlorohydrin	57	6.629	6.629	(1.194)	526	8.00000	8.22(M)
M 94	1,2-Dichloroethylene (total)	96				5768	4.00000	(a)
130	Ethyl Acetate	43	4.545	4.545	(0.943)	1381	2.00000	(aM)
131	Methyl Acrylate	55	4.380	4.380	(0.909)	3454	2.00000	2.85(aM)
189	n-Butyl acetate	43	7.593	7.593	(0.928)	3735	2.00000	1.92(aM)
134	Cyclohexanone	55	9.152	9.152	(0.900)	2636	40.0000	29.87(a)
185	Isoprene	39	2.165	2.165	(0.449)	784	2.00000	2.35(a)
188	Isopropyl acetate	43	5.287	5.287	(0.952)	8161	2.00000	2.28(a)
150	Allyl alcohol	57	3.349	3.349	(0.695)	1625	40.0000	38.52
194	Acetaldehyde	44	1.468	1.468	(0.305)	2016	8.00000	7.85(M)
200	Dimethyl Disulfide	94	6.746	6.746	(0.824)	946	2.00000	2.46(aM)
202	Isobutylene	41	1.756	1.756	(0.364)	1101	2.00000	1.69(aM)
133	Ethyl Acrylate	55	5.951	5.951	(1.235)	6251	2.00000	1.86(aM)
163	Butyl methacrylate	41	9.647	9.647	(0.949)	3207	2.00000	1.57(a)
159	Propylene oxide	43	2.202	2.202	(0.457)	361	4.00000	3.24(aM)
178	Ethylene oxide	44	1.614	1.614	(0.335)	6470	4.00000	8.29(M)
203	2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	2165	2.00000	2.74(a)
204	Tetrahydrothiophene	60	7.672	7.672	(0.937)	1963	2.00000	1.59(aA)
205	sec-Butyl Ether	57	7.218	7.218	(0.882)	6163	2.00000	1.94(aAM)
187	n-Amyl acetate	43	8.931	8.931	(1.091)	4439	2.00000	1.84(aM)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.



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Date : 05-JUN-2024 20:03
Client ID: VSTD002
Sample Info: VSTD002;VSTD002;1;4
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

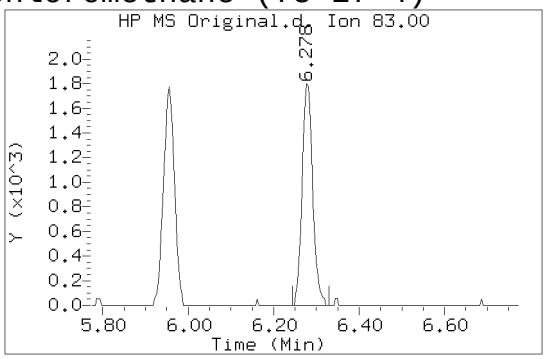
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LabSampID : VSTD002

Bromodichloromethane (75-27-4)

Reason Code:

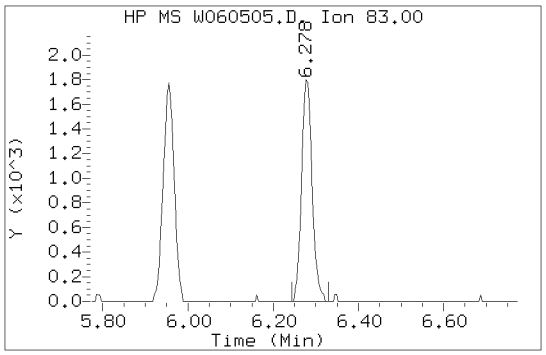
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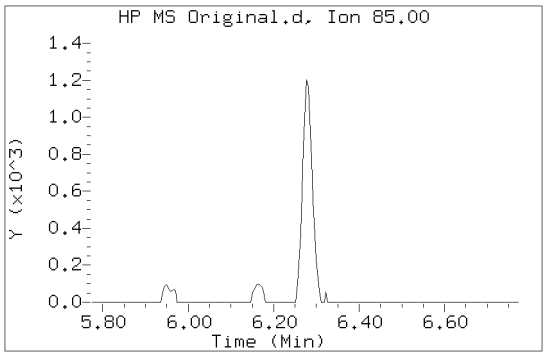
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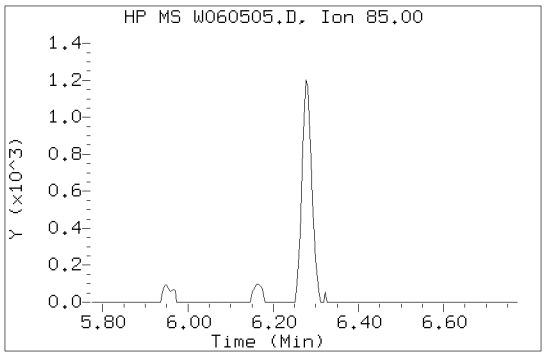
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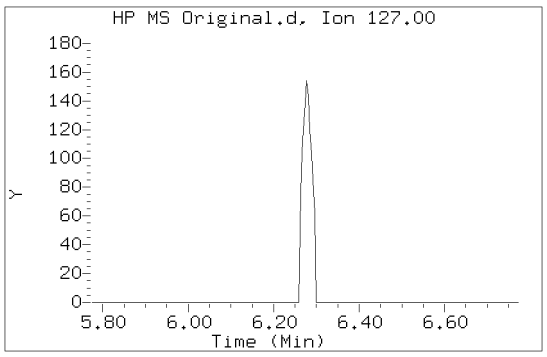
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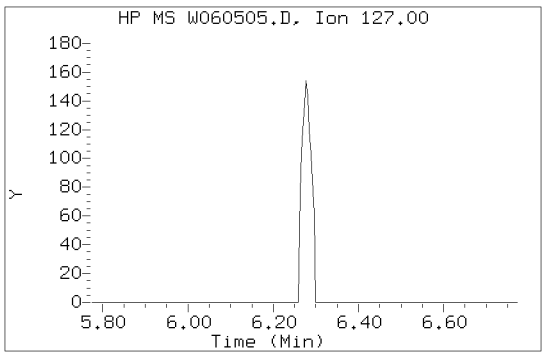
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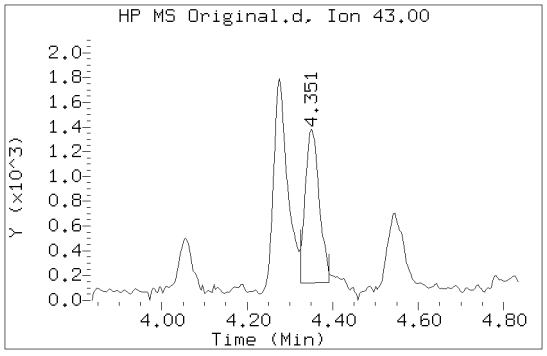


Vinyl Acetate (108-05-4)

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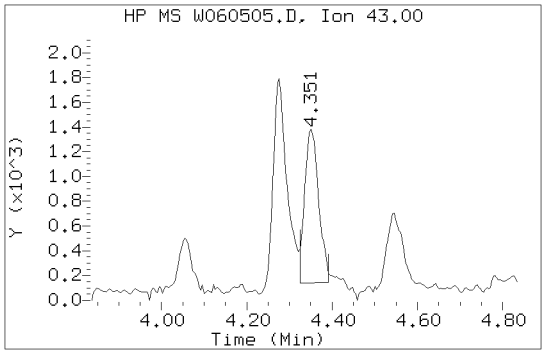
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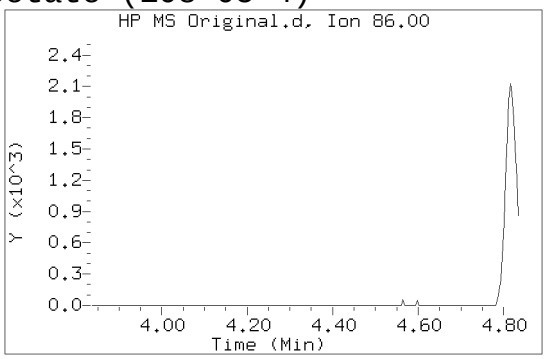
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LabSampID : VSTD002

Vinyl Acetate (108-05-4)

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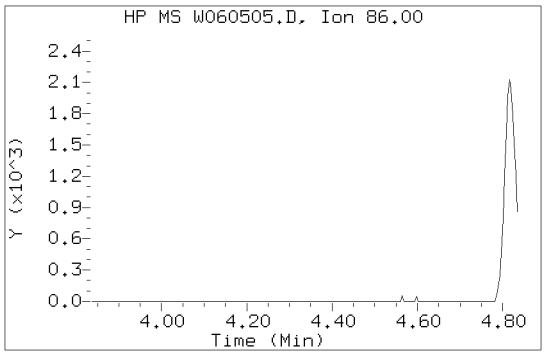
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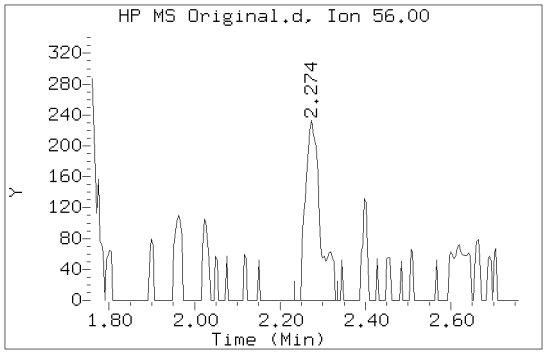


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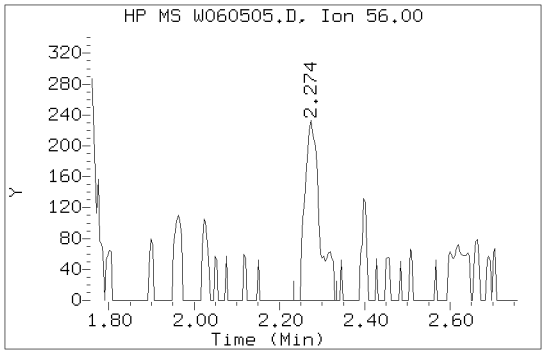
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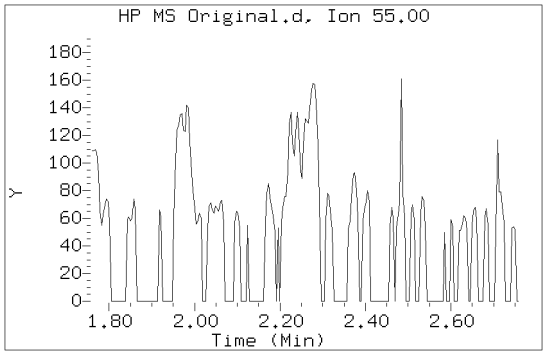
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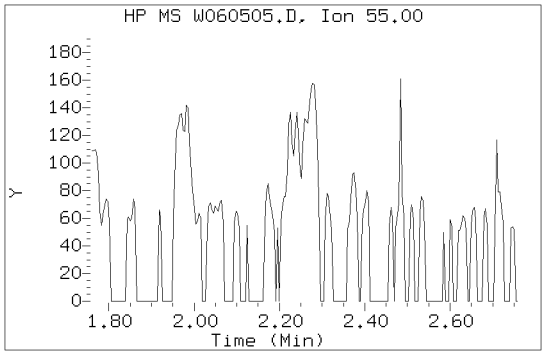
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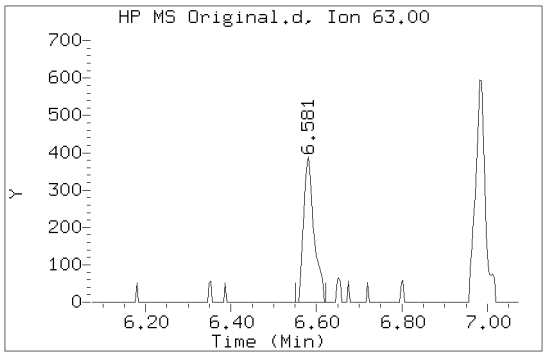


2-Chloroethylvinyl ether (110-75-8)

Reason Code:

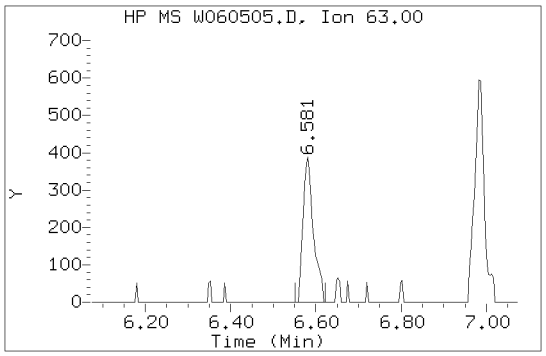
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63
AREA
675
HEIGHT
388
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
63
AREA
675
HEIGHT
388
21-Jun-2024
17:11
RUCHA
PATEL



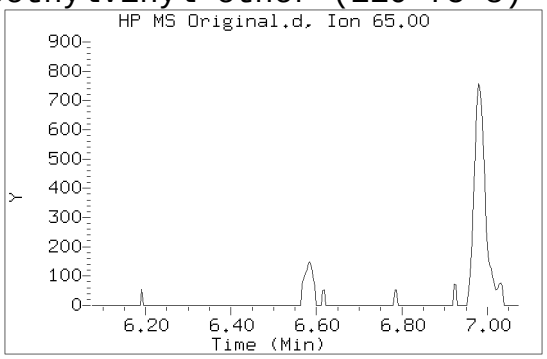
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060505.D
Inj Date : 05-JUN-2024 20:03
InstruID : VOA9.i
LabSampID : VSTD002

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

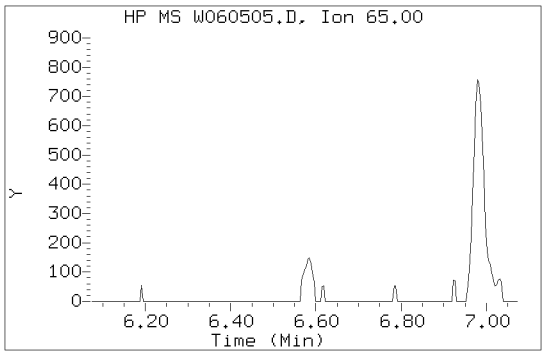
BEFORE

MASS
65
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



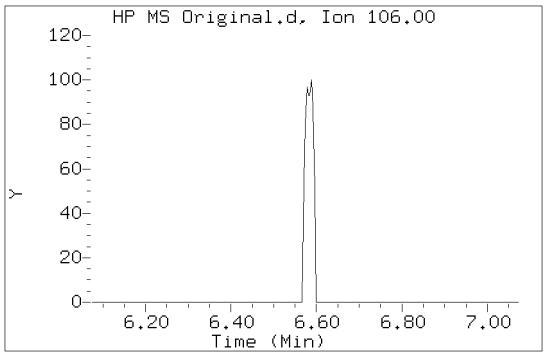
AFTER

MASS
65
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



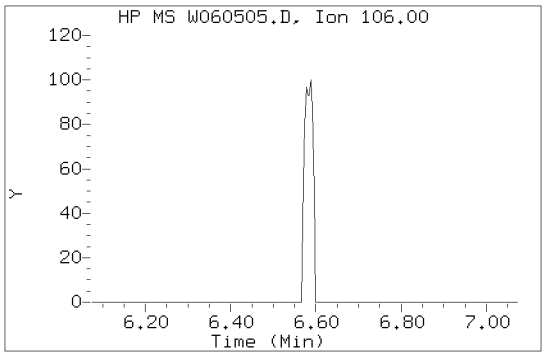
BEFORE

MASS
106
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
106
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

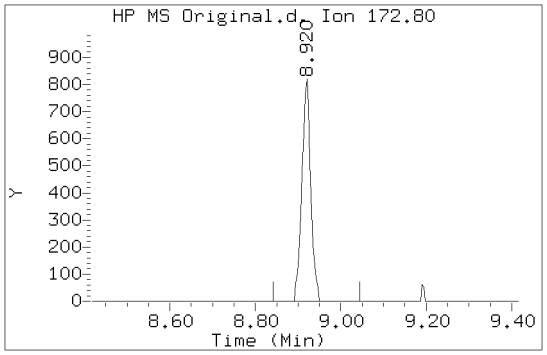


Bromoform (75-25-2)

Reason Code:

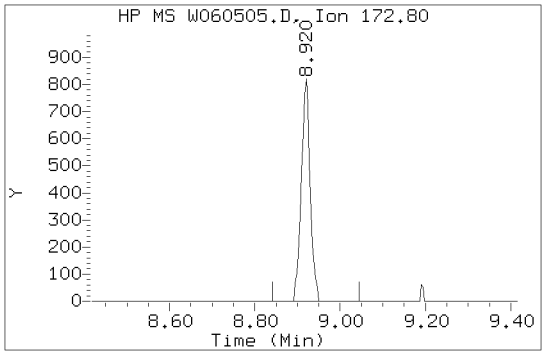
BEFORE

MASS
172.8
AREA
1212
HEIGHT
821
21-Jun-2024
17:11
RUCHA
PATEL



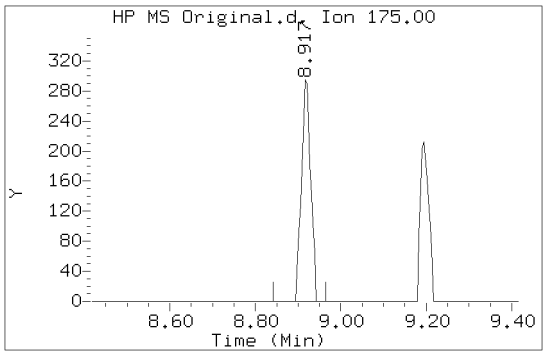
AFTER

MASS
172.8
AREA
1212
HEIGHT
821
21-Jun-2024
17:11
RUCHA
PATEL



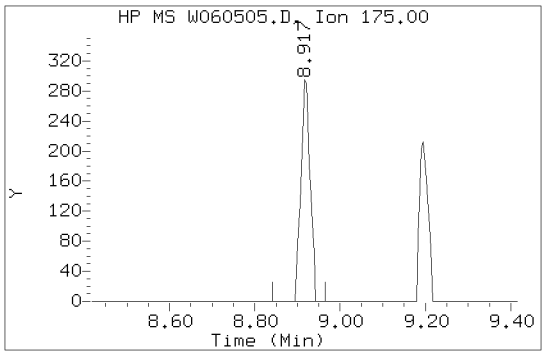
BEFORE

MASS
175
AREA
454
HEIGHT
295
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
175
AREA
454
HEIGHT
295
21-Jun-2024
17:11
RUCHA
PATEL



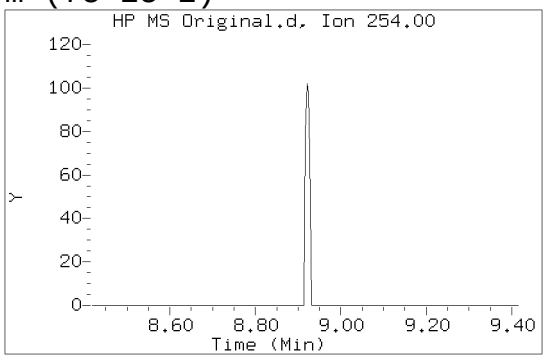
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060505.D
Inj Date : 05-JUN-2024 20:03
InstruID : VOA9.i
LabSampID : VSTD002

Bromoform (75-25-2)

Reason Code:

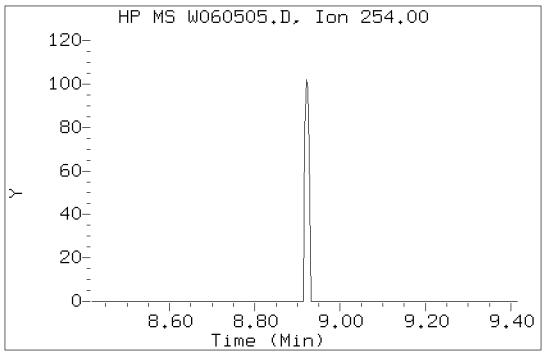
BEFORE

MASS
254
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
254
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

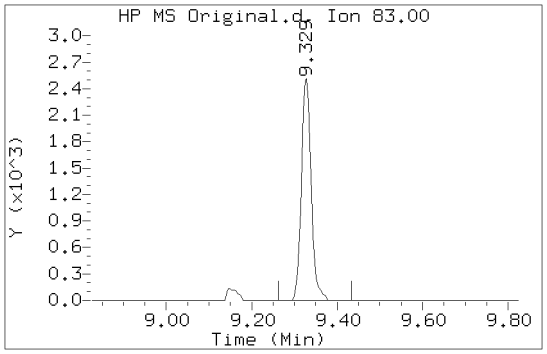


1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

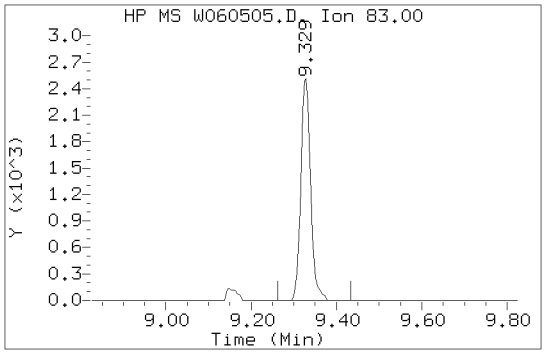
BEFORE

MASS
83
AREA
4084
HEIGHT
2515
21-Jun-2024
17:11
RUCHA
PATEL



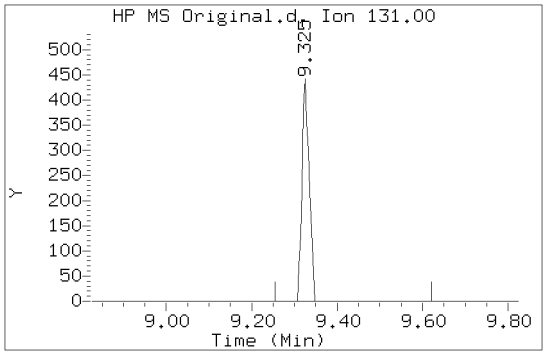
AFTER

MASS
83
AREA
4084
HEIGHT
2515
21-Jun-2024
17:11
RUCHA
PATEL



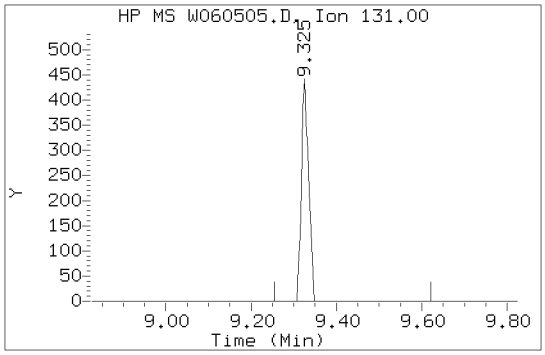
BEFORE

MASS
131
AREA
528
HEIGHT
442
21-Jun-2024
17:11
RUCHA
PATEL



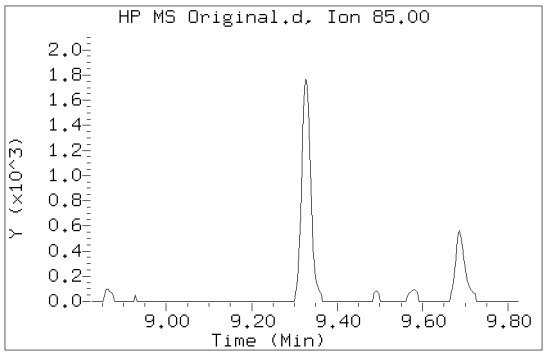
AFTER

MASS
131
AREA
528
HEIGHT
442
21-Jun-2024
17:11
RUCHA
PATEL



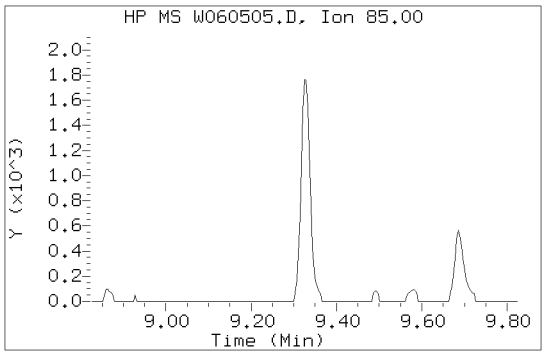
BEFORE

MASS
85
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
85
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



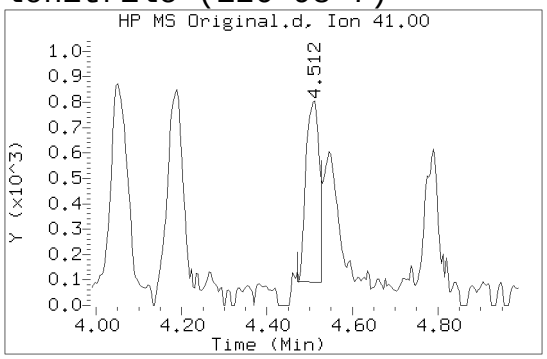
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060505.D
Inj Date : 05-JUN-2024 20:03
InstruID : VOA9.i
LabSampID : VSTD002

Methacrylonitrile (126-98-7)

Reason Code:

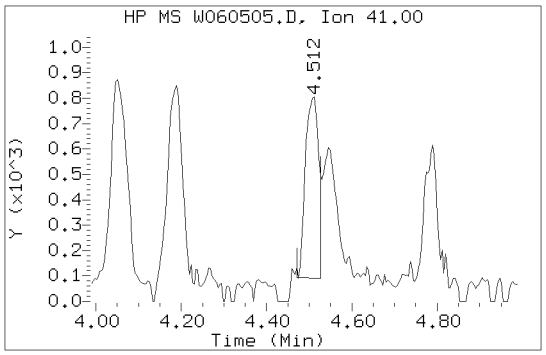
BEFORE

MASS
41
AREA
1556
HEIGHT
713
21-Jun-2024
17:11
RUCHA
PATEL



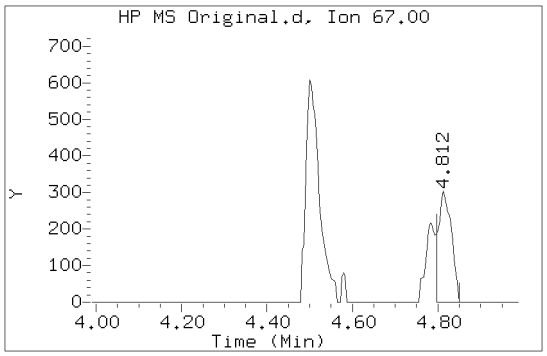
AFTER

MASS
41
AREA
1556
HEIGHT
713
21-Jun-2024
17:11
RUCHA
PATEL



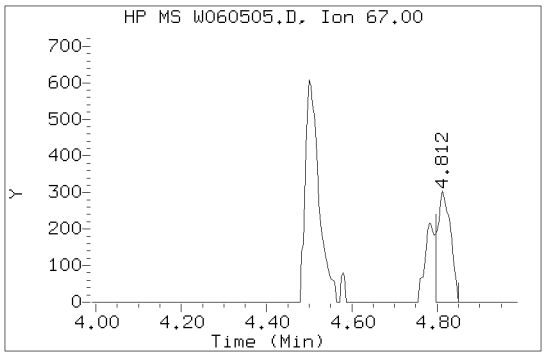
BEFORE

MASS
67
AREA
643
HEIGHT
304
21-Jun-2024
17:11
RUCHA
PATEL



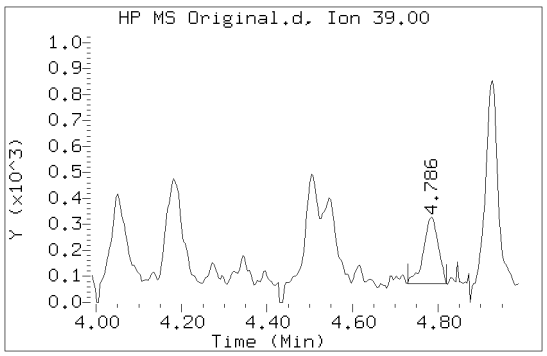
AFTER

MASS
67
AREA
643
HEIGHT
304
21-Jun-2024
17:11
RUCHA
PATEL



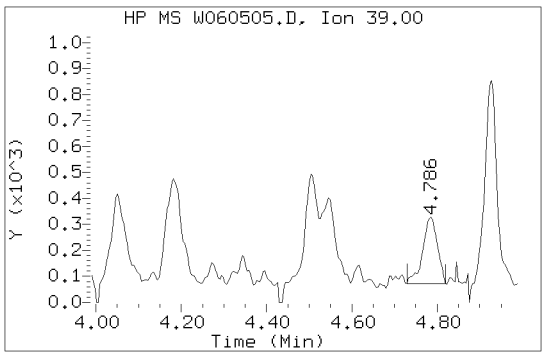
BEFORE

MASS
39
AREA
617
HEIGHT
257
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
39
AREA
617
HEIGHT
257
21-Jun-2024
17:11
RUCHA
PATEL

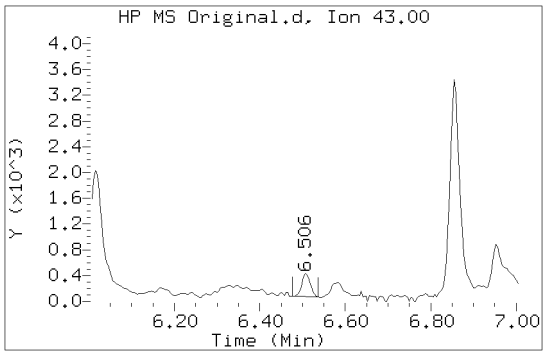


2-Nitropropane (79-46-9)

Reason Code:

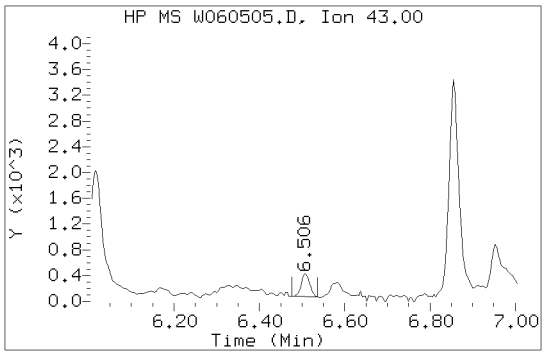
BEFORE

MASS
43
AREA
495
HEIGHT
356
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
43
AREA
495
HEIGHT
356
21-Jun-2024
17:11
RUCHA
PATEL



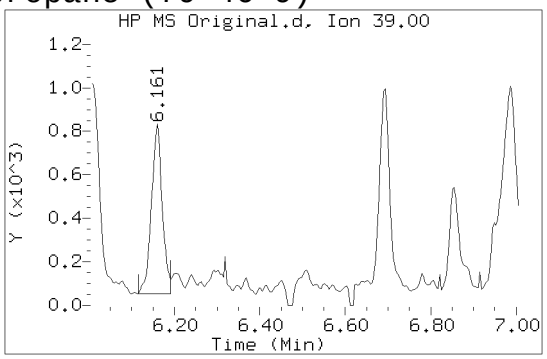
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060505.D
Inj Date : 05-JUN-2024 20:03
InstruID : VOA9.i
LabSampID : VSTD002

2-Nitropropane (79-46-9)

Reason Code:

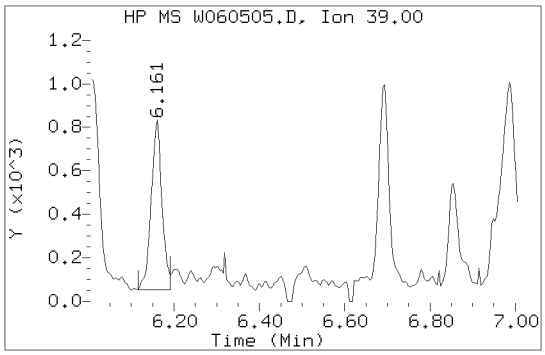
BEFORE

MASS
39
AREA
1372
HEIGHT
780
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
39
AREA
1372
HEIGHT
780
21-Jun-2024
17:11
RUCHA
PATEL

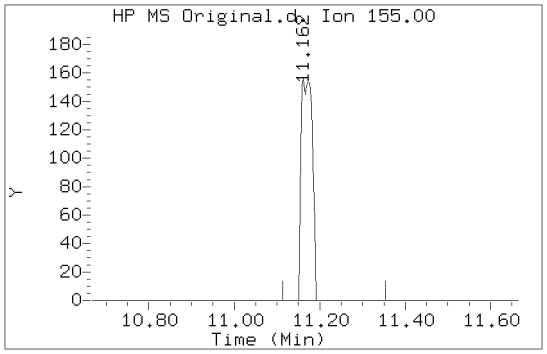


1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

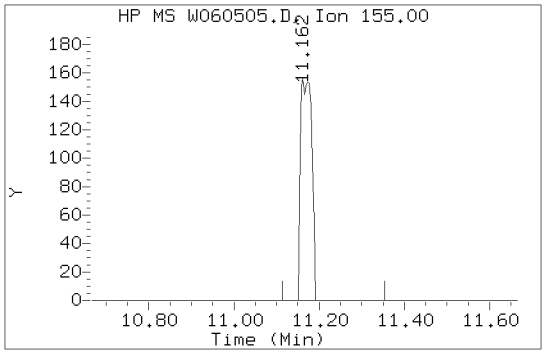
BEFORE

MASS
155
AREA
293
HEIGHT
156
21-Jun-2024
17:11
RUCHA
PATEL



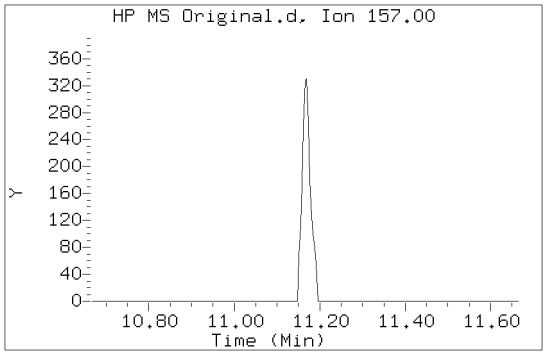
AFTER

MASS
155
AREA
293
HEIGHT
156
21-Jun-2024
17:11
RUCHA
PATEL



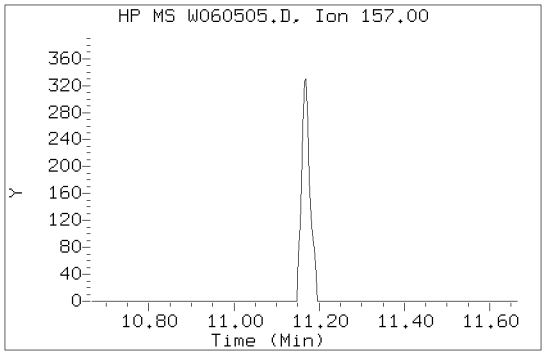
BEFORE

MASS
157
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



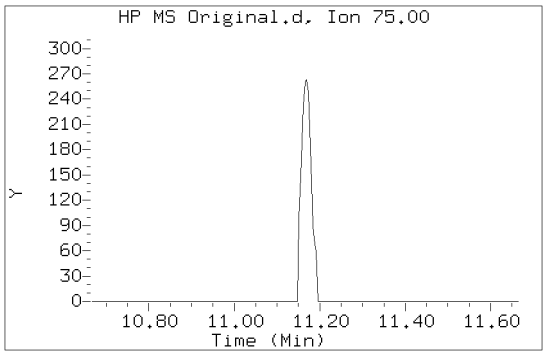
AFTER

MASS
157
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



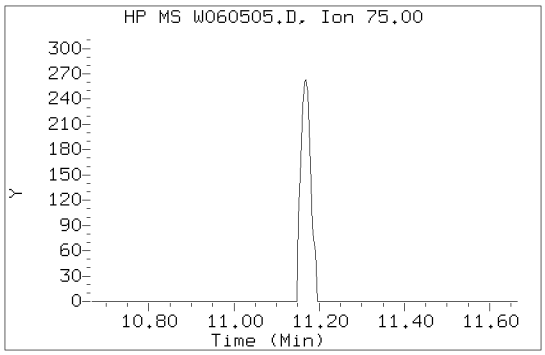
BEFORE

MASS
75
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
75
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



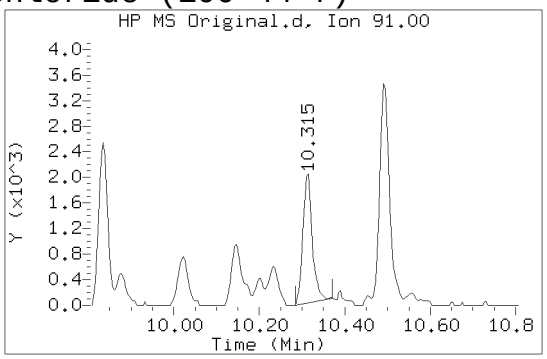
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060505.D
Inj Date : 05-JUN-2024 20:03
InstruID : VOA9.i
LabSampID : VSTD002

Benzyl Chloride (100-44-7)

Reason Code:

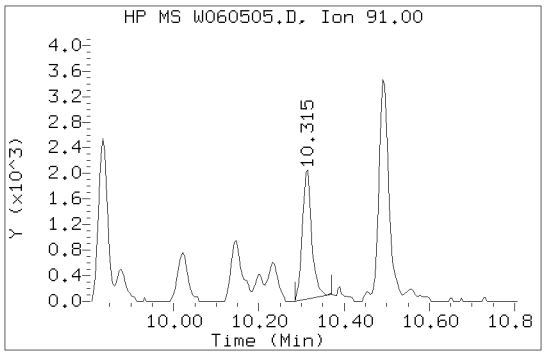
BEFORE

MASS
91
AREA
3116
HEIGHT
2020
21-Jun-2024
17:11
RUCHA
PATEL



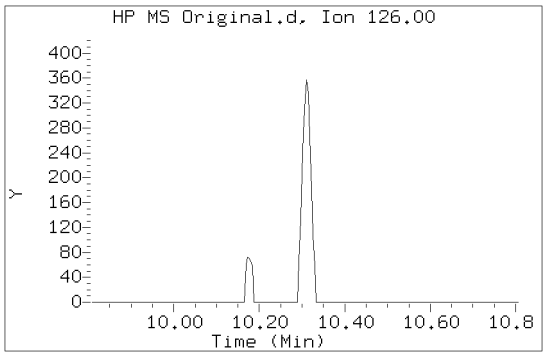
AFTER

MASS
91
AREA
3116
HEIGHT
2020
21-Jun-2024
17:11
RUCHA
PATEL



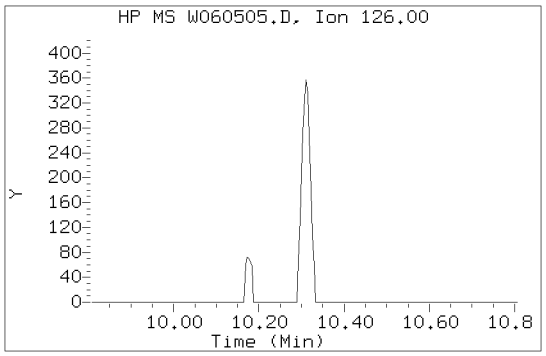
BEFORE

MASS
126
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



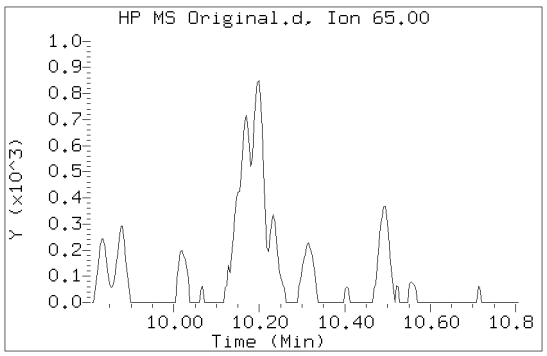
AFTER

MASS
126
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



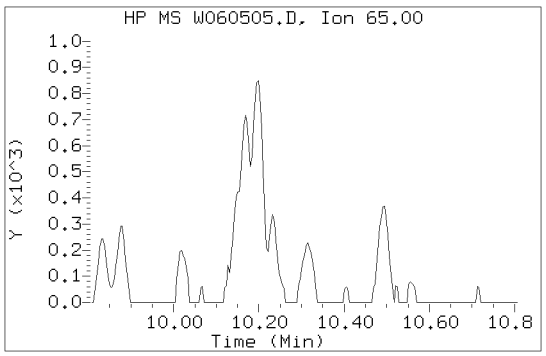
BEFORE

MASS
65
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
65
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

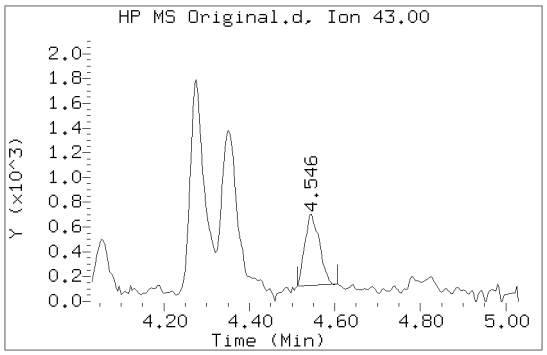


Ethyl Acetate (141-78-6)

Reason Code:

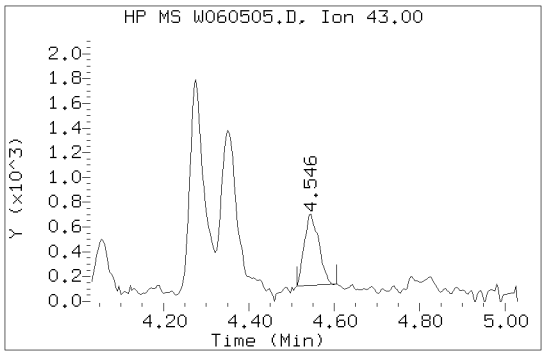
BEFORE

MASS
43
AREA
1381
HEIGHT
577
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
43
AREA
1381
HEIGHT
577
21-Jun-2024
17:11
RUCHA
PATEL



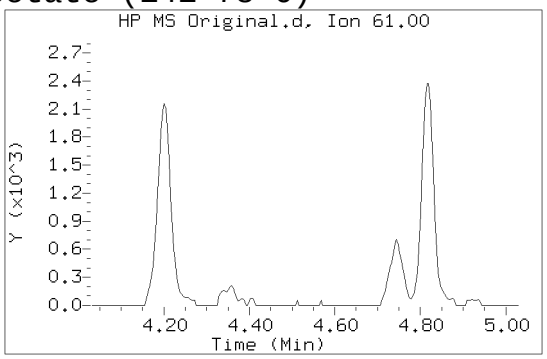
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060505.D
Inj Date : 05-JUN-2024 20:03
InstruID : VOA9.i
LabSampID : VSTD002

Ethyl Acetate (141-78-6)

Reason Code:

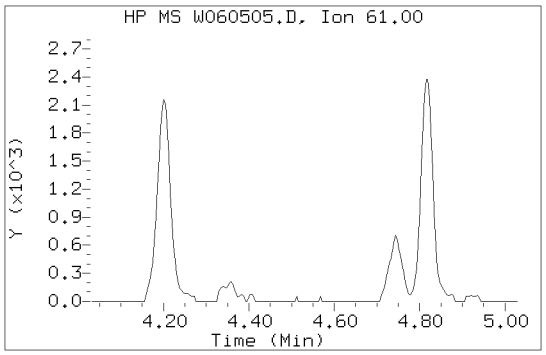
BEFORE

MASS
61
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



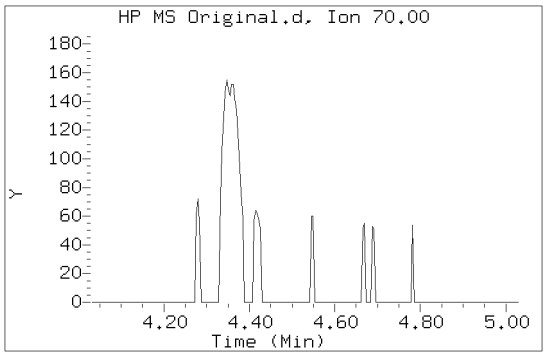
AFTER

MASS
61
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



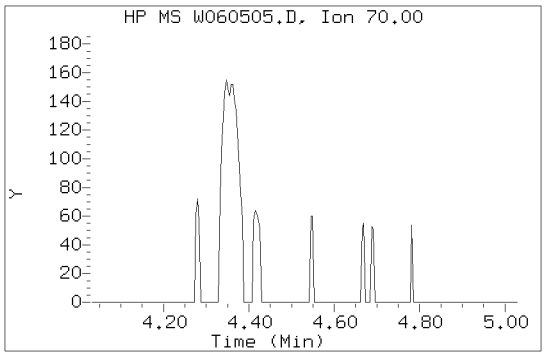
BEFORE

MASS
70
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
70
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

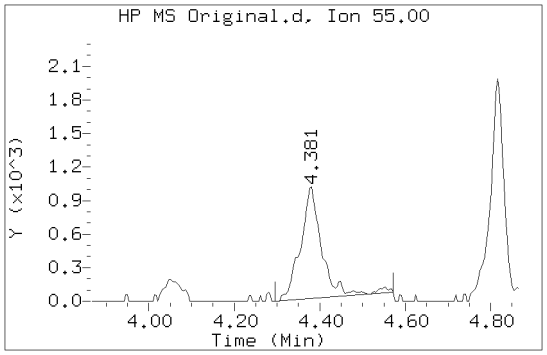


Methyl Acrylate (96-33-3)

Reason Code:

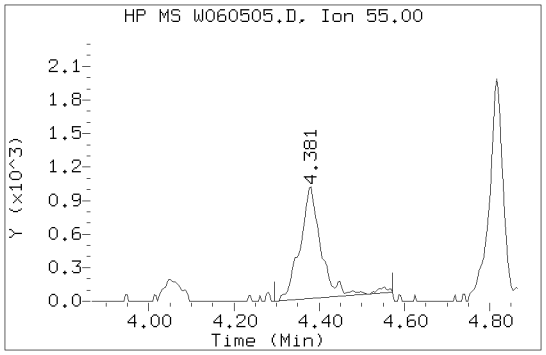
BEFORE

MASS
55
AREA
3454
HEIGHT
995
21-Jun-2024
17:11
RUCHA
PATEL



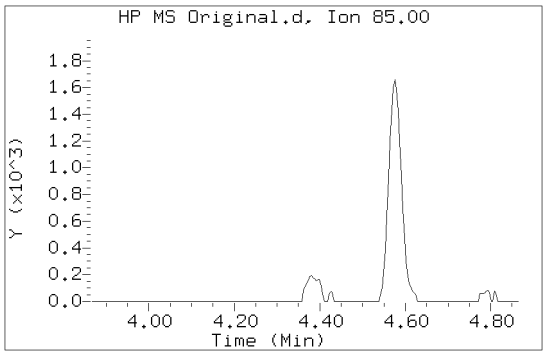
AFTER

MASS
55
AREA
3454
HEIGHT
995
21-Jun-2024
17:11
RUCHA
PATEL



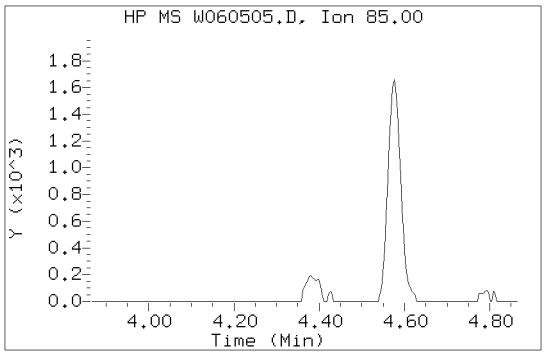
BEFORE

MASS
85
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
85
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



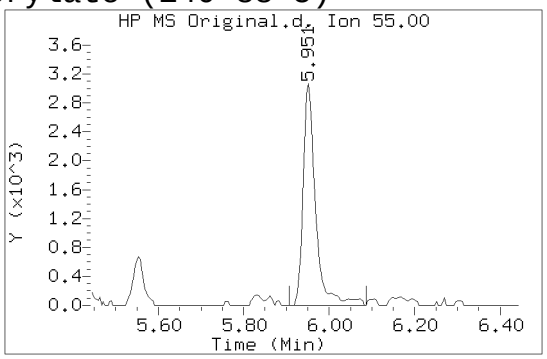
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060505.D
Inj Date : 05-JUN-2024 20:03
InstruID : VOA9.i
LabSampID : VSTD002

Ethyl Acrylate (140-88-5)

Reason Code:

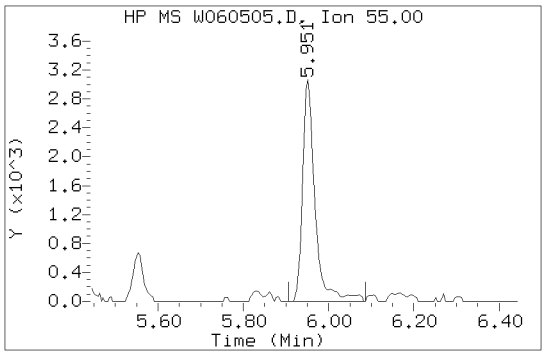
BEFORE

MASS
55
AREA
6251
HEIGHT
3066
21-Jun-2024
17:11
RUCHA
PATEL



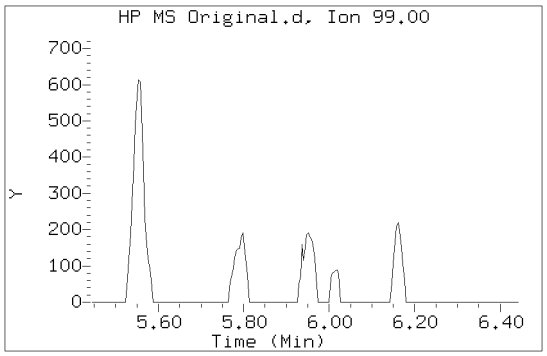
AFTER

MASS
55
AREA
6251
HEIGHT
3066
21-Jun-2024
17:11
RUCHA
PATEL



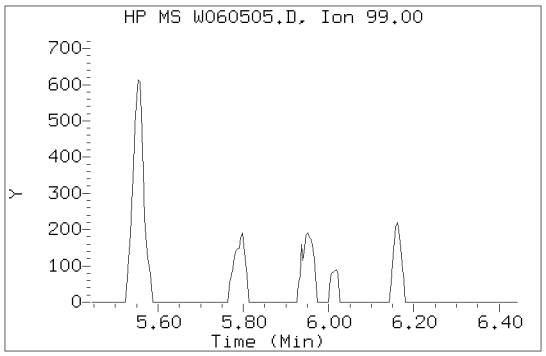
BEFORE

MASS
99
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
99
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

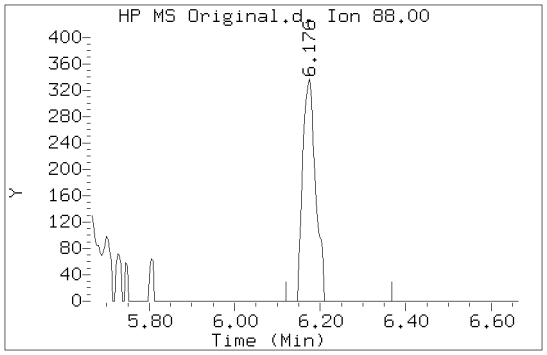


1,4-Dioxane ()

Reason Code:

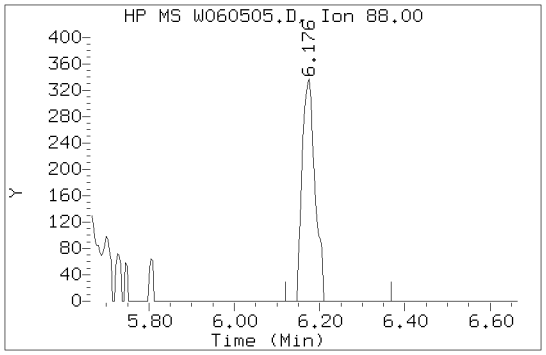
BEFORE

MASS
88
AREA
711
HEIGHT
337
21-Jun-2024
17:11
RUCHA
PATEL



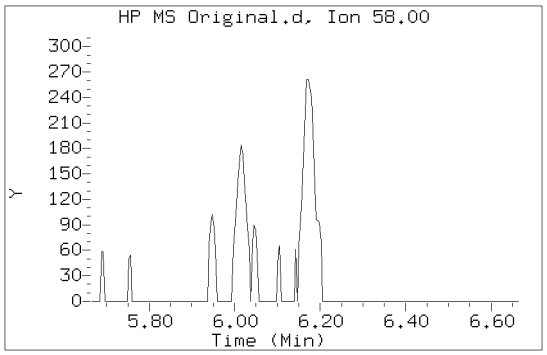
AFTER

MASS
88
AREA
711
HEIGHT
337
21-Jun-2024
17:11
RUCHA
PATEL



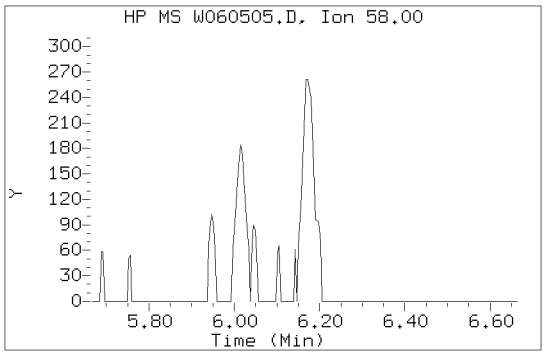
BEFORE

MASS
58
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
58
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



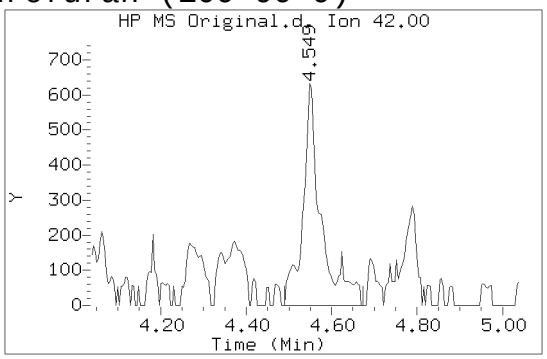
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060505.D
Inj Date : 05-JUN-2024 20:03
InstruID : VOA9.i
LabSampID : VSTD002

Tetrahydrofuran (109-99-9)

Reason Code:

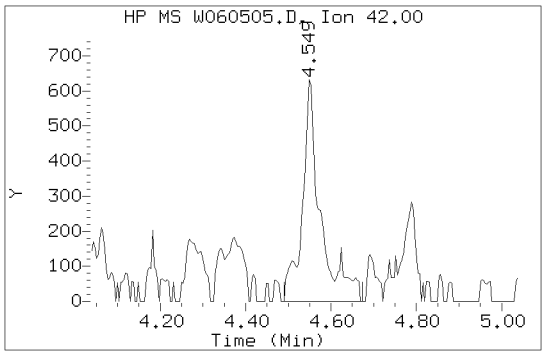
BEFORE

MASS
42
AREA
1871
HEIGHT
632
21-Jun-2024
17:11
RUCHA
PATEL



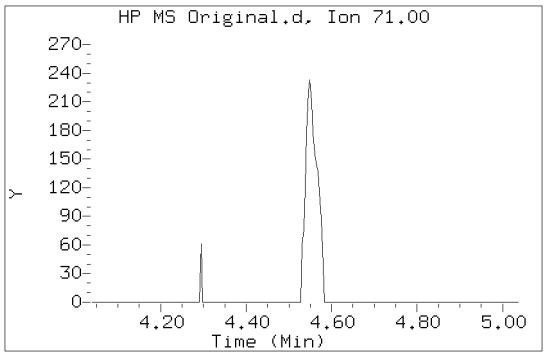
AFTER

MASS
42
AREA
1871
HEIGHT
632
21-Jun-2024
17:11
RUCHA
PATEL



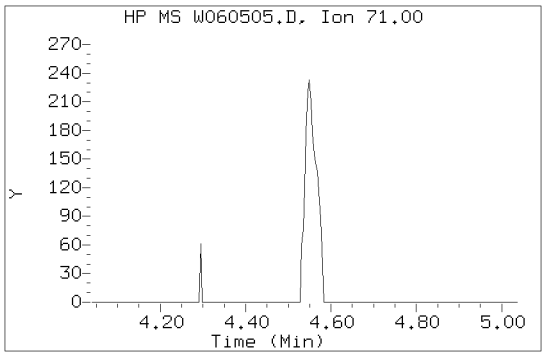
BEFORE

MASS
71
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
71
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

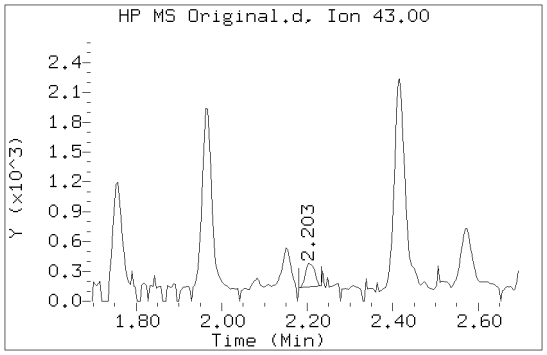


Propylene oxide ()

Reason Code:

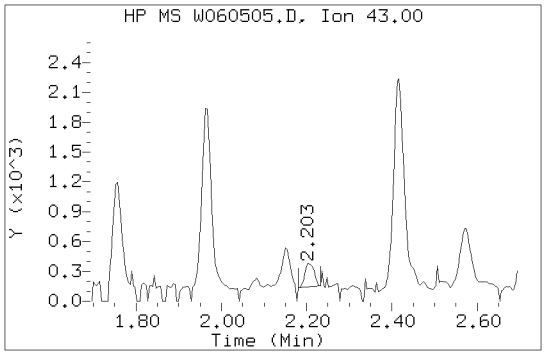
BEFORE

MASS
43
AREA
361
HEIGHT
240
21-Jun-2024
17:11
RUCHA
PATEL



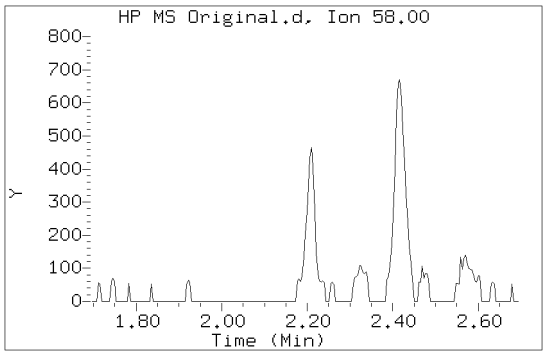
AFTER

MASS
43
AREA
361
HEIGHT
240
21-Jun-2024
17:11
RUCHA
PATEL



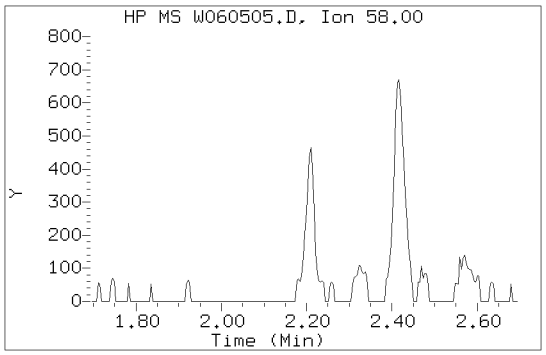
BEFORE

MASS
58
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
58
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



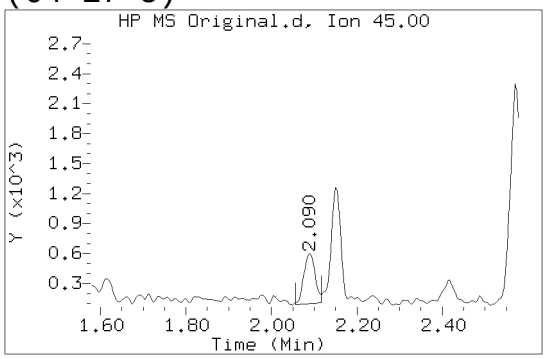
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060505.D
Inj Date : 05-JUN-2024 20:03
InstruID : VOA9.i
LabSampID : VSTD002

Ethanol (64-17-5)

Reason Code:

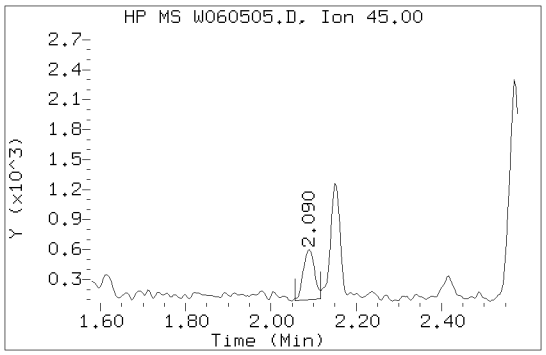
BEFORE

MASS
45
AREA
938
HEIGHT
502
21-Jun-2024
17:11
RUCHA
PATEL



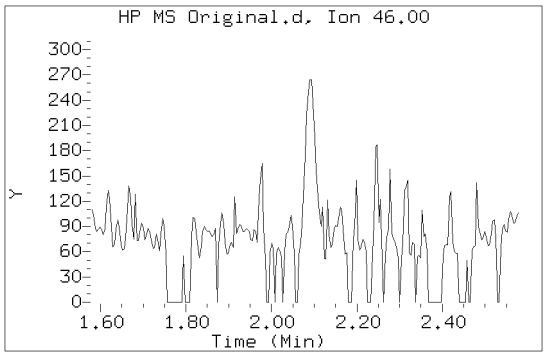
AFTER

MASS
45
AREA
938
HEIGHT
502
21-Jun-2024
17:11
RUCHA
PATEL



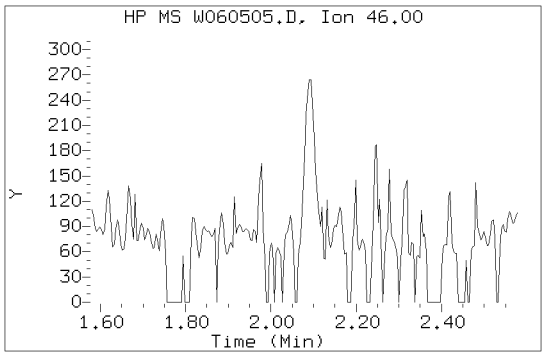
BEFORE

MASS
46
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



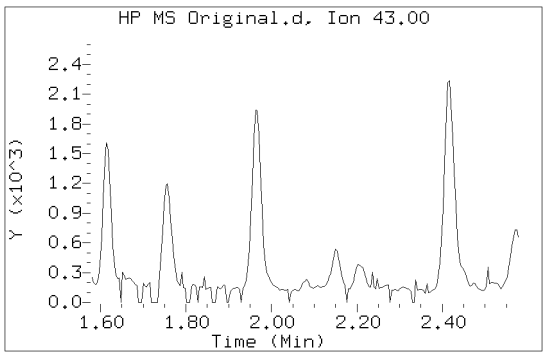
AFTER

MASS
46
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



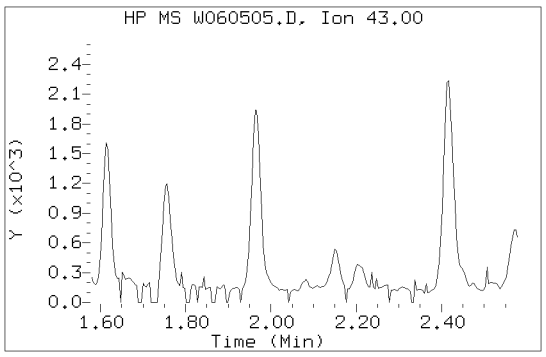
BEFORE

MASS
43
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
43
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

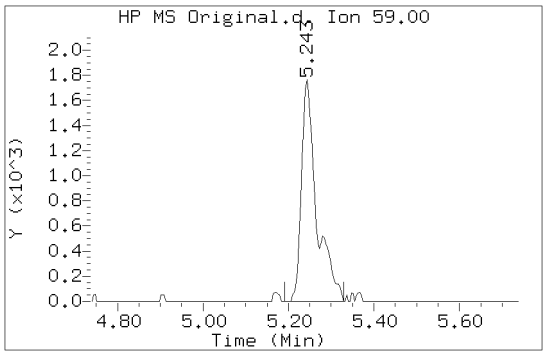


tert-Butyl formate (762-75-4)

Reason Code:

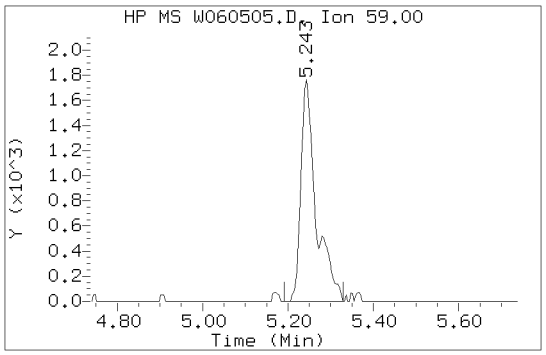
BEFORE

MASS
59
AREA
4441
HEIGHT
1765
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
59
AREA
4441
HEIGHT
1765
21-Jun-2024
17:11
RUCHA
PATEL



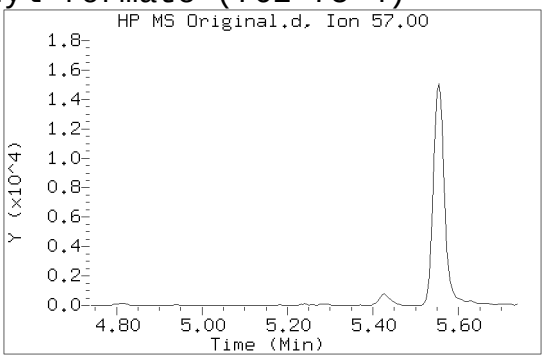
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060505.D
Inj Date : 05-JUN-2024 20:03
InstruID : VOA9.i
LabSampID : VSTD002

tert-Butyl formate (762-75-4)

Reason Code:

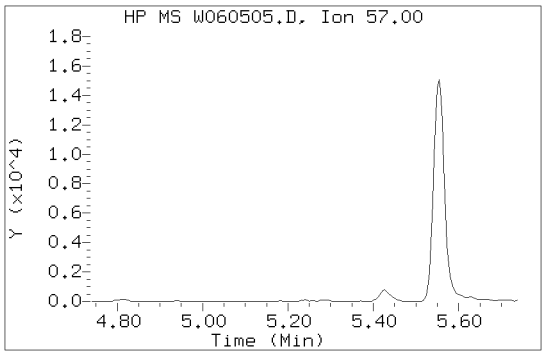
BEFORE

MASS
57
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



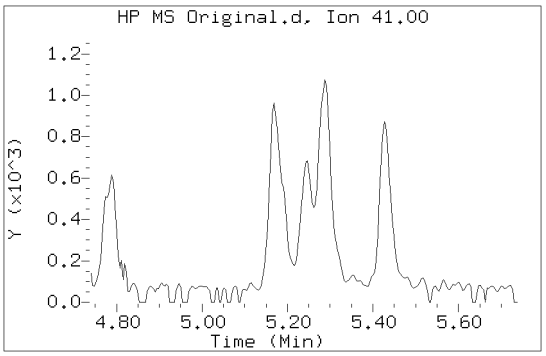
AFTER

MASS
57
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



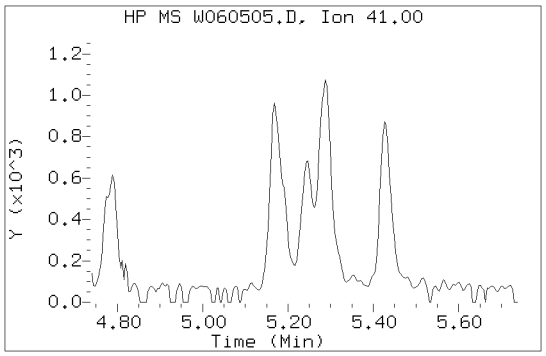
BEFORE

MASS
41
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
41
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

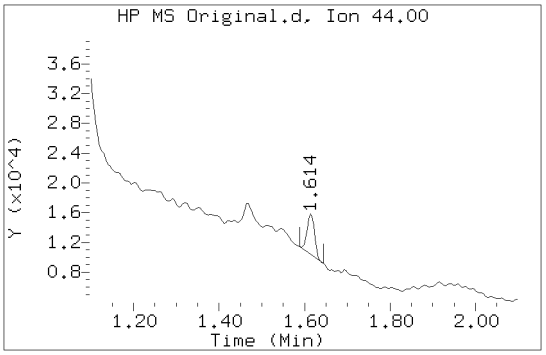


Ethylene oxide (75-21-8)

Reason Code:

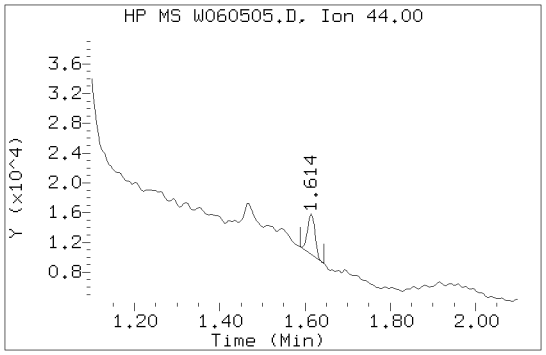
BEFORE

MASS
44
AREA
6470
HEIGHT
5390
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
44
AREA
6470
HEIGHT
5390
21-Jun-2024
17:11
RUCHA
PATEL

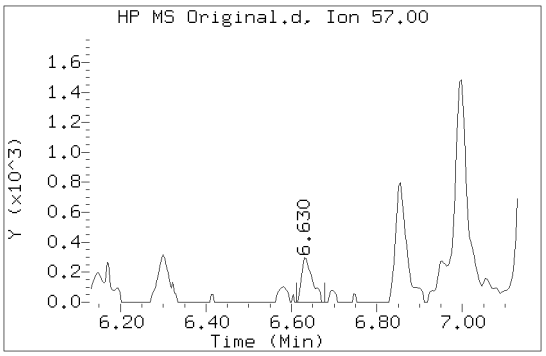


Epichlorohydrin (106-89-8)

Reason Code:

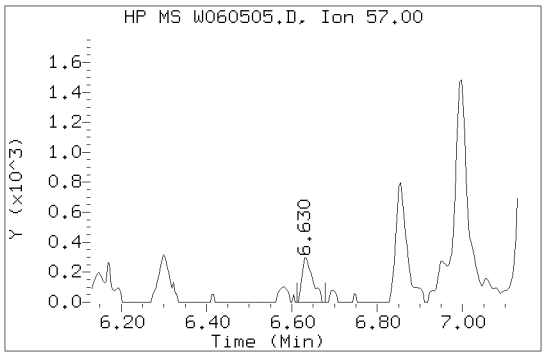
BEFORE

MASS
57
AREA
526
HEIGHT
295
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
57
AREA
526
HEIGHT
295
21-Jun-2024
17:11
RUCHA
PATEL



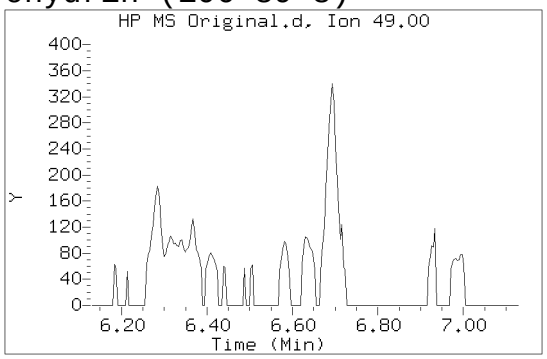
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060505.D
Inj Date : 05-JUN-2024 20:03
InstruID : VOA9.i
LabSampID : VSTD002

Epichlorohydrin (106-89-8)

Reason Code:

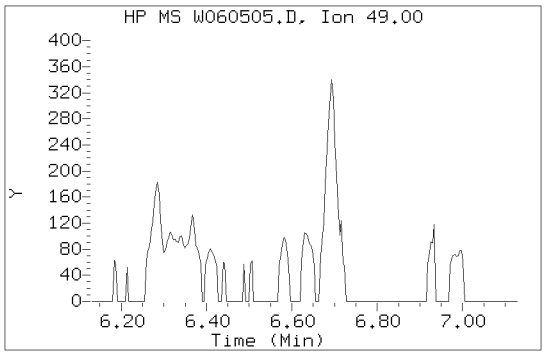
BEFORE

MASS
49
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
49
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

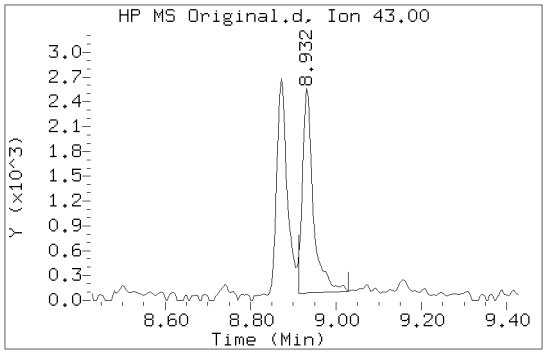


n-Amyl acetate (628-63-7)

Reason Code:

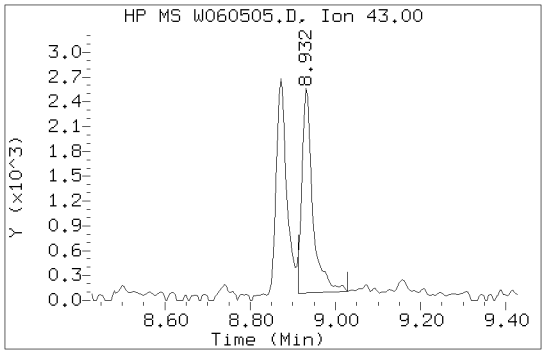
BEFORE

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21-Jun-2024
17:11
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PATEL



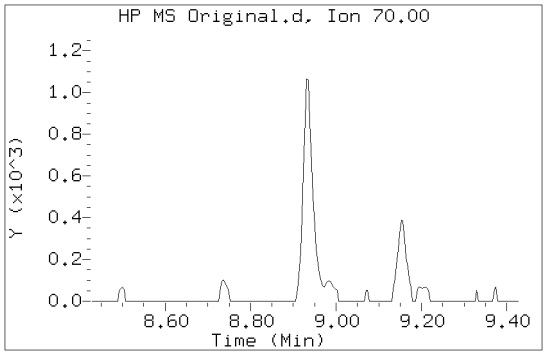
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PATEL



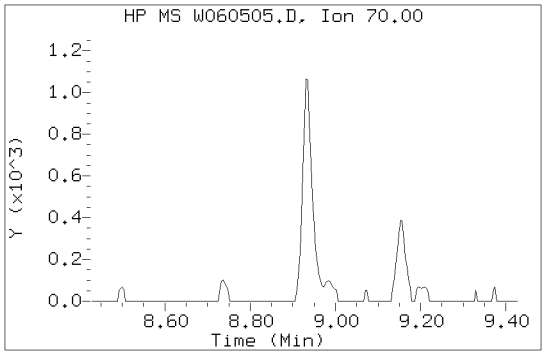
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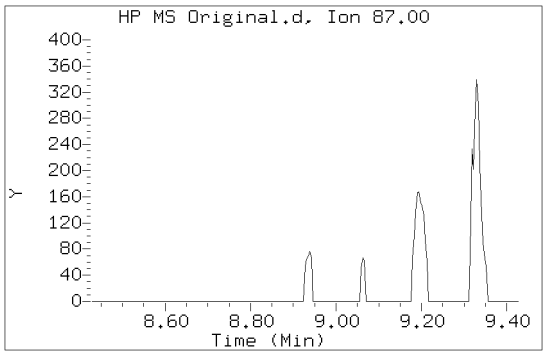
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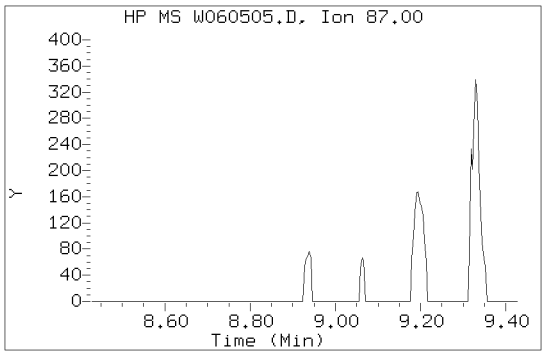
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AFTER

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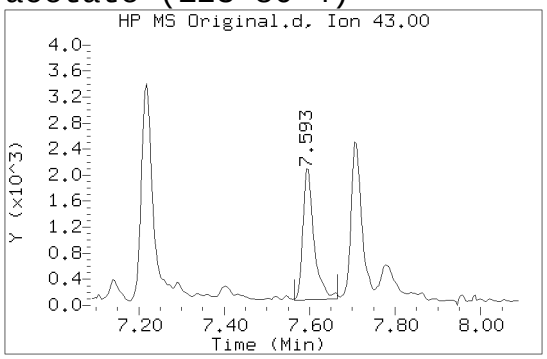
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Inj Date : 05-JUN-2024 20:03
InstruID : VOA9.i
LabSampID : VSTD002

n-Butyl acetate (123-86-4)

Reason Code:

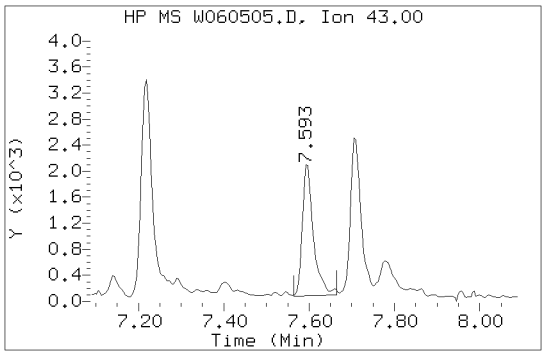
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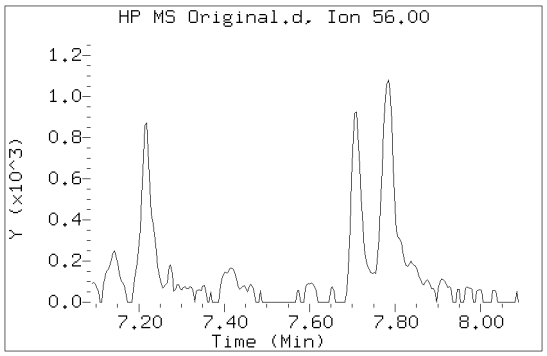
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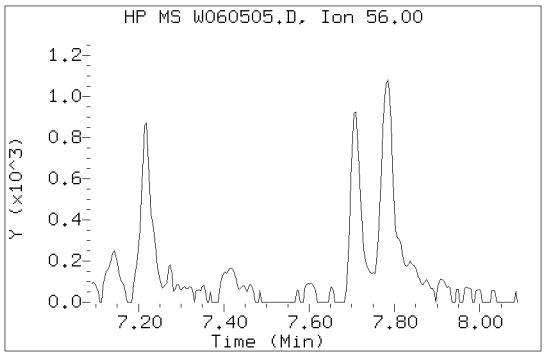
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PATEL



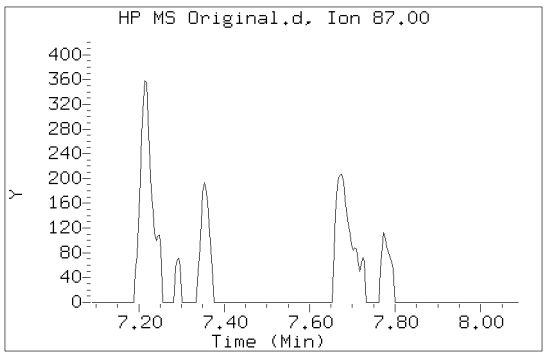
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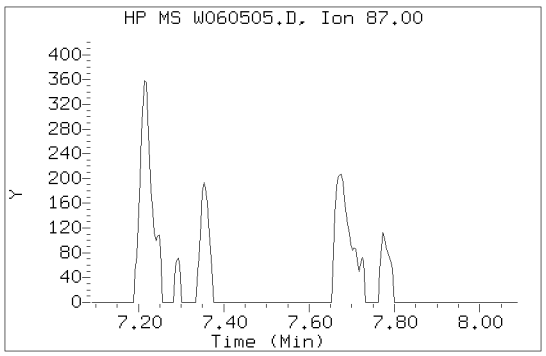
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PATEL



AFTER

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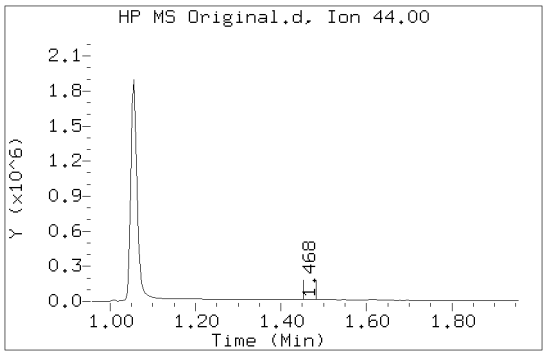


Acetaldehyde (75-07-0)

Reason Code:

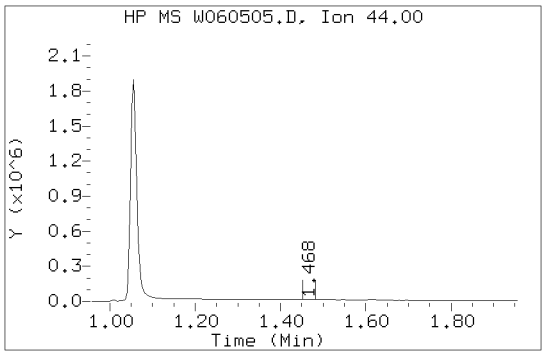
BEFORE

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PATEL



AFTER

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2016
HEIGHT
2041
21-Jun-2024
17:11
RUCHA
PATEL



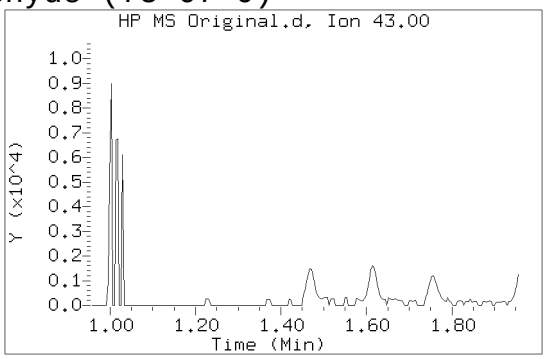
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Inj Date : 05-JUN-2024 20:03
InstruID : VOA9.i
LabSampID : VSTD002

Acetaldehyde (75-07-0)

Reason Code:

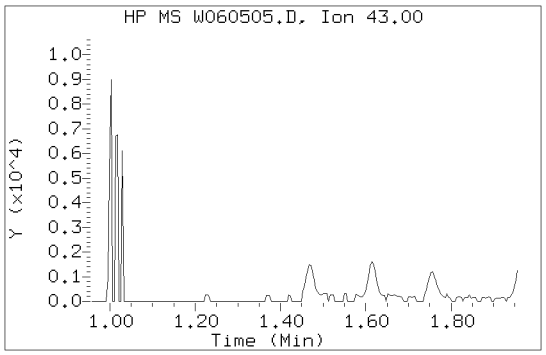
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17:11
RUCHA
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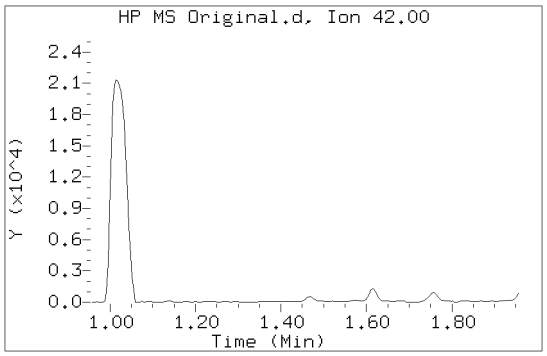
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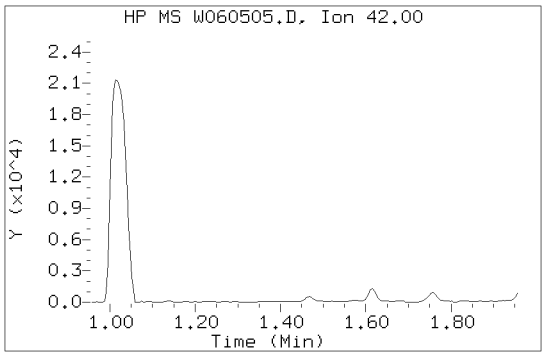
BEFORE

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0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

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21-Jun-2024
17:11
RUCHA
PATEL

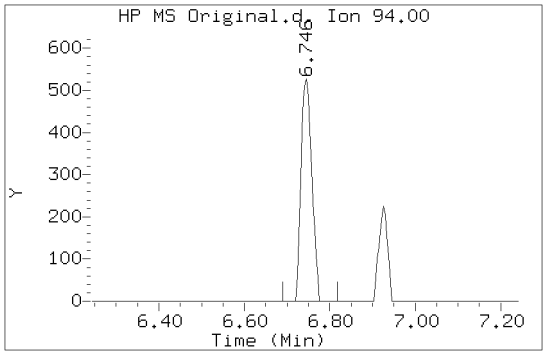


Dimethyl Disulfide (624-92-0)

Reason Code:

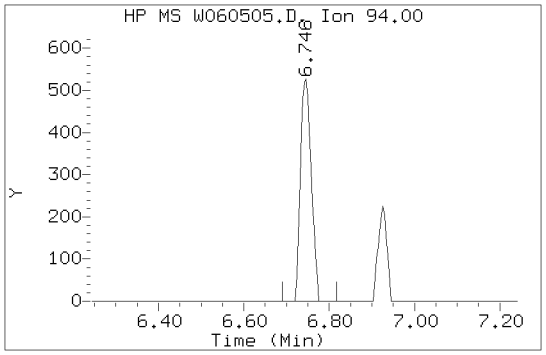
BEFORE

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946
HEIGHT
527
21-Jun-2024
17:11
RUCHA
PATEL



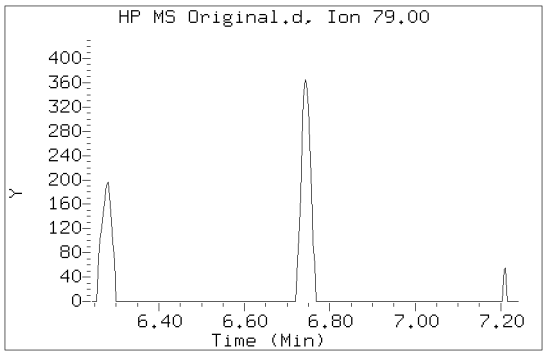
AFTER

MASS
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21-Jun-2024
17:11
RUCHA
PATEL



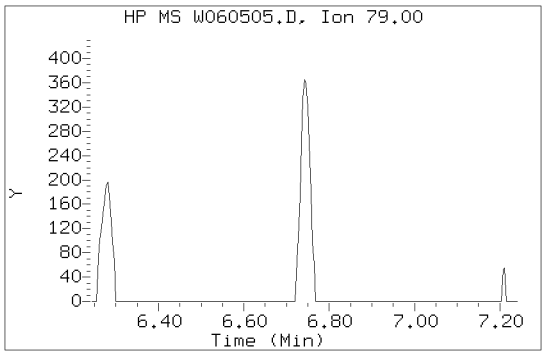
BEFORE

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79
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0
21-Jun-2024
17:11
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PATEL



AFTER

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17:11
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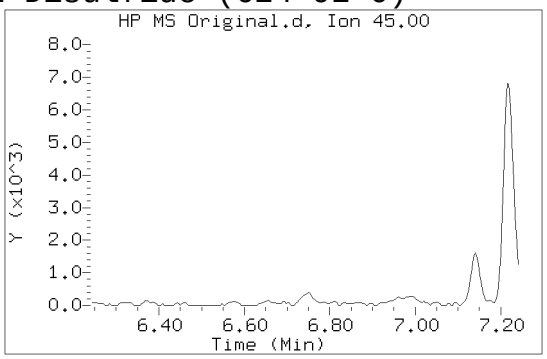
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Inj Date : 05-JUN-2024 20:03
InstruID : VOA9.i
LabSampID : VSTD002

Dimethyl Disulfide (624-92-0)

Reason Code:

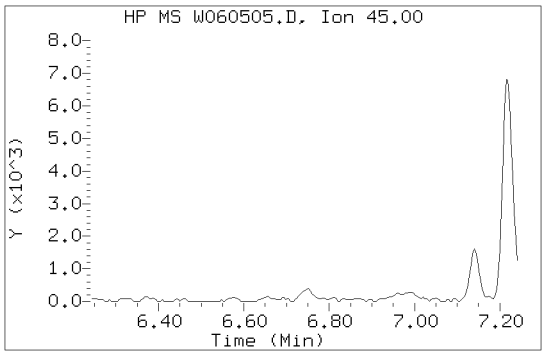
BEFORE

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17:11
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AFTER

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PATEL

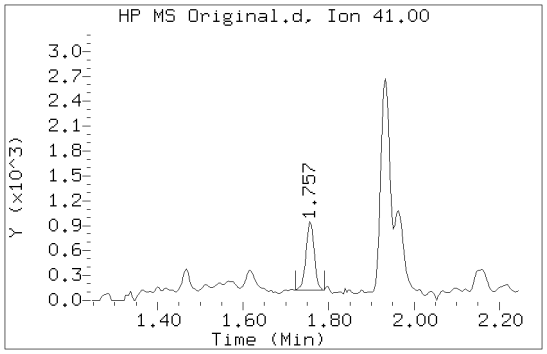


Isobutylene (115-11-7)

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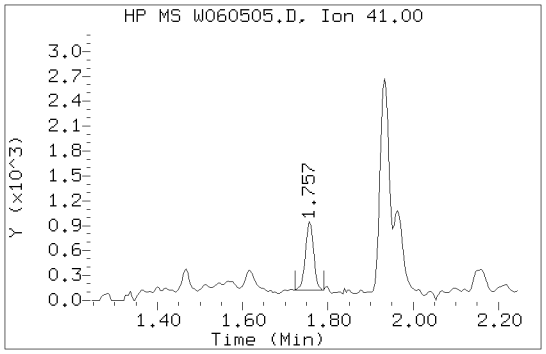
BEFORE

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1101
HEIGHT
828
21-Jun-2024
17:11
RUCHA
PATEL



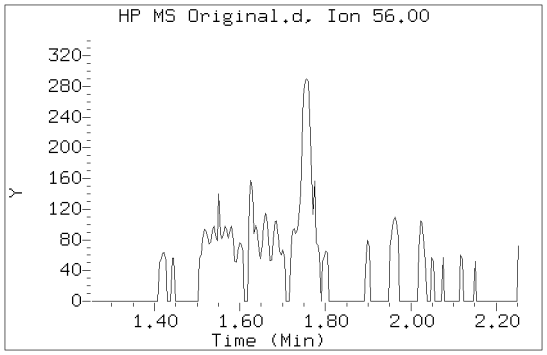
AFTER

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21-Jun-2024
17:11
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PATEL



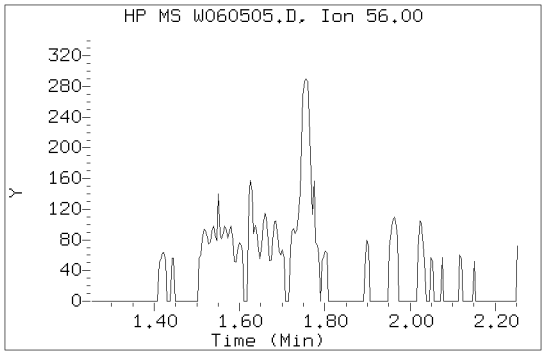
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17:11
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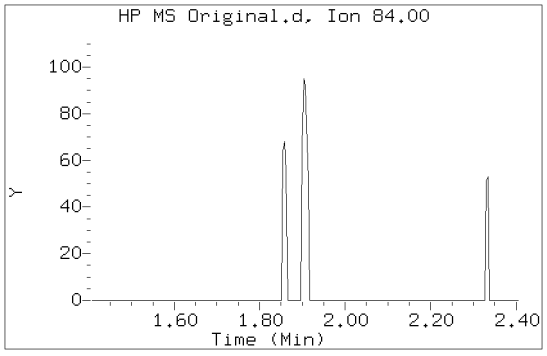
AFTER

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21-Jun-2024
17:11
RUCHA
PATEL



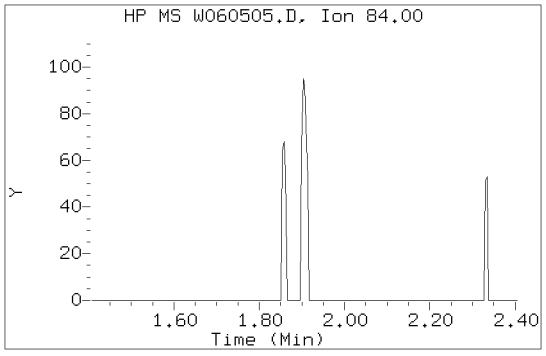
BEFORE

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17:11
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AFTER

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21-Jun-2024
17:11
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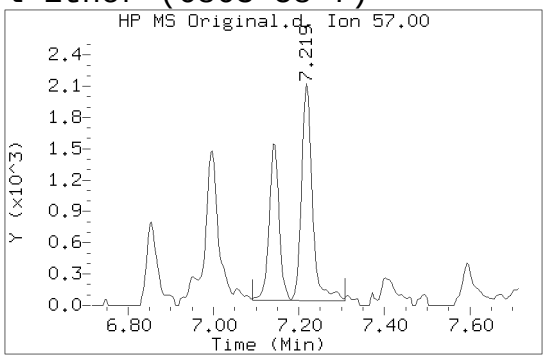
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Inj Date : 05-JUN-2024 20:03
InstruID : VOA9.i
LabSampID : VSTD002

sec-Butyl Ether (6863-58-7)

Reason Code:

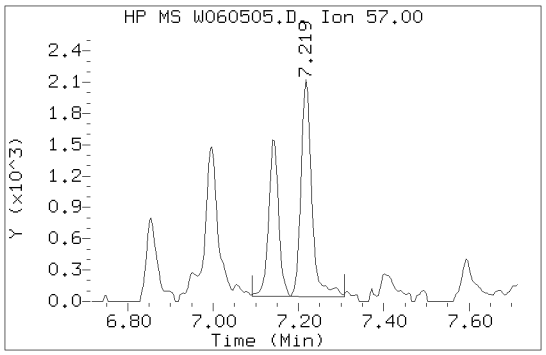
BEFORE

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AREA
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21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
57
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6163
HEIGHT
2077
21-Jun-2024
17:11
RUCHA
PATEL



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060506.D Page 1
Report Date: 21-Jun-2024 17:11

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060506.D
Lab Smp Id: VSTD005 Client Smp ID: VSTD005
Inj Date : 05-JUN-2024 20:24
Operator : TS Inst ID: VOA9.i
Smp Info : VSTD005;VSTD005;1;5
Misc Info : V9;WATER;0;1;
Comment   :
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Meth Date : 21-Jun-2024 17:11 VOA9.i Quant Type: ISTD
Cal Date : 05-JUN-2024 20:03 Cal File: W060505.D
Als bottle: 8 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.815	4.815	(1.000)	205178	50.0000	
2	Dichlorodifluoromethane	85	1.168	1.168	(0.243)	3261	5.00000	5.83
3	Chloromethane	50	1.299	1.299	(0.270)	16295	5.00000	3.78
4	Propionitrile	54	4.343	4.343	(0.902)	10006	50.0000	51.63(a)
5	Vinyl Chloride	62	1.378	1.378	(0.286)	7475	5.00000	5.36
6	Bromomethane	94	1.618	1.618	(0.336)	3935	5.00000	5.75
7	Chloroethane	64	1.700	1.700	(0.353)	5724	5.00000	5.51
8	Trichlorofluoromethane	101	1.895	1.895	(0.394)	9913	5.00000	5.51
9	Acrolein	56	2.266	2.266	(0.471)	842	10.0000	9.07(a)
10	Acetone	43	2.412	2.412	(0.501)	7303	10.0000	9.66
11	1,1-Dichloroethene	96	2.334	2.334	(0.485)	6204	5.00000	5.27
12	Isobutyl Alcohol	43	5.284	5.284	(1.097)	19318	100.000	88.52(a)
13	Acetonitrile	39	2.671	2.671	(0.555)	8857	50.0000	53.77(a)
14	Allyl Chloride	41	2.671	2.671	(0.555)	19908	5.00000	5.24(a)
15	Iodomethane	142	2.465	2.465	(0.512)	2881	10.0000	10.25(T)
16	Acrylonitrile	53	3.068	3.068	(0.637)	5811	10.0000	9.97
17	Methylene Chloride	84	2.795	2.795	(0.580)	9288	5.00000	5.34
18	Methyl tert-butyl ether	73	3.083	3.083	(0.640)	18303	5.00000	5.19
19	Carbon Disulfide	76	2.521	2.521	(0.524)	31962	10.0000	9.47
20	trans-1,2-Dichloroethene	96	3.057	3.057	(0.635)	6873	5.00000	5.52

21 Vinyl Acetate	43	4.347	4.347 (0.903)	6797	10.0000	8.89(M)
22 1,1-Dichloroethane	63	3.511	3.511 (0.729)	13484	5.00000	5.18

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060506.D Page 2
Report Date: 21-Jun-2024 17:11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	3.608	3.608	(0.749)	10221	5.00000	4.88(a)
	24 2-Butanone	43	4.268	4.268	(0.886)	7617	10.0000	9.37
	25 Methacrylonitrile	41	4.500	4.500	(0.935)	3984	5.00000	5.73(aM)
	26 2,2-Dichloropropane	77	4.178	4.178	(0.868)	8057	5.00000	4.61
	27 cis-1,2-Dichloroethene	96	4.197	4.197	(0.872)	7546	5.00000	5.13
	28 Chloroform	83	4.572	4.572	(0.949)	13358	5.00000	4.93
	29 Bromochloromethane	128	4.467	4.467	(0.928)	3834	5.00000	4.73
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	7370	5.00000	4.98
	31 1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	9104	5.00000	4.68
	32 1,1-Dichloropropene	75	4.920	4.920	(0.886)	9713	5.00000	4.97
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	11017	5.00000	4.68
	34 Carbon Tetrachloride	117	4.909	4.909	(0.884)	7255	5.00000	4.50
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	9256	5.00000	5.13
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	302340	50.0000	
	37 Benzene	78	5.138	5.138	(0.925)	28522	5.00000	5.09
	38 Trichloroethene	130	5.790	5.790	(1.043)	7574	5.00000	5.03
	39 Bromodichloromethane	83	6.277	6.277	(1.130)	7503	5.00000	4.18(a)
	40 Methyl Methacrylate	41	5.827	5.827	(1.210)	2092	5.00000	5.47(a)
	41 2-Chloroethylvinyl ether	63	6.577	6.577	(1.184)	1922	10.0000	11.09(M)
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	7788	5.00000	4.79(a)
	43 2-Nitropropane	43	6.506	6.506	(1.351)	1241	5.00000	4.19(aM)
	44 Dibromomethane	93	6.120	6.120	(1.102)	4516	5.00000	4.72(a)
	45 4-Methyl-2-Pentanone	43	6.855	6.855	(0.837)	13477	10.0000	10.62
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.204)	8170	5.00000	5.77
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	269792	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	25860	5.00000	4.77(a)
	49 Ethyl Methacrylate	69	7.289	7.289	(1.312)	7923	5.00000	4.05(a)
	50 Toluene	91	6.978	6.978	(0.853)	28533	5.00000	4.73(a)
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	5800	5.00000	5.44
	52 2-Hexanone	43	7.214	7.214	(0.881)	15779	10.0000	12.78
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	5854	5.00000	4.92(a)
	54 1,3-Dichloropropane	76	7.496	7.496	(0.916)	11941	5.00000	4.80(a)
	55 Dibromochloromethane	129	7.691	7.691	(0.940)	4936	5.00000	5.22
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	5855	5.00000	5.00
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	5821	5.00000	4.83(a)
	58 1-Chlorohexane	55	8.193	8.193	(1.475)	8603	5.00000	6.63
	59 Chlorobenzene	112	8.208	8.208	(1.003)	19728	5.00000	5.13
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	5683	5.00000	4.35(a)
	61 Ethylbenzene	106	8.305	8.305	(1.015)	9076	5.00000	4.71(a)
	62 m,p-Xylenes	106	8.407	8.407	(1.027)	22023	10.0000	9.21(a)
	63 o-Xylene	106	8.748	8.748	(1.069)	10398	5.00000	4.49(a)
	64 Styrene	104	8.763	8.763	(1.071)	16435	5.00000	4.39(a)
	66 Bromoform	173	8.916	8.916	(1.089)	2656	5.00000	6.22(T)
	67 Isopropylbenzene	105	9.059	9.059	(1.107)	25964	5.00000	4.72(a)
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	9596	5.00000	4.83(a)
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	9537	5.00000	4.86(a)
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	142214	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.921)	7709	5.00000	5.14
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	1921	5.00000	5.20(a)
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	29520	5.00000	4.56(a)
	74 Bromobenzene	156	9.318	9.318	(0.916)	7851	5.00000	5.13
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	18454	5.00000	4.33(a)

76	2-Chlorotoluene	91	9.482	9.482 (0.933)	19688	5.00000	4.69(a)
77	4-Chlorotoluene	91	9.576	9.576 (0.942)	22361	5.00000	4.63(a)

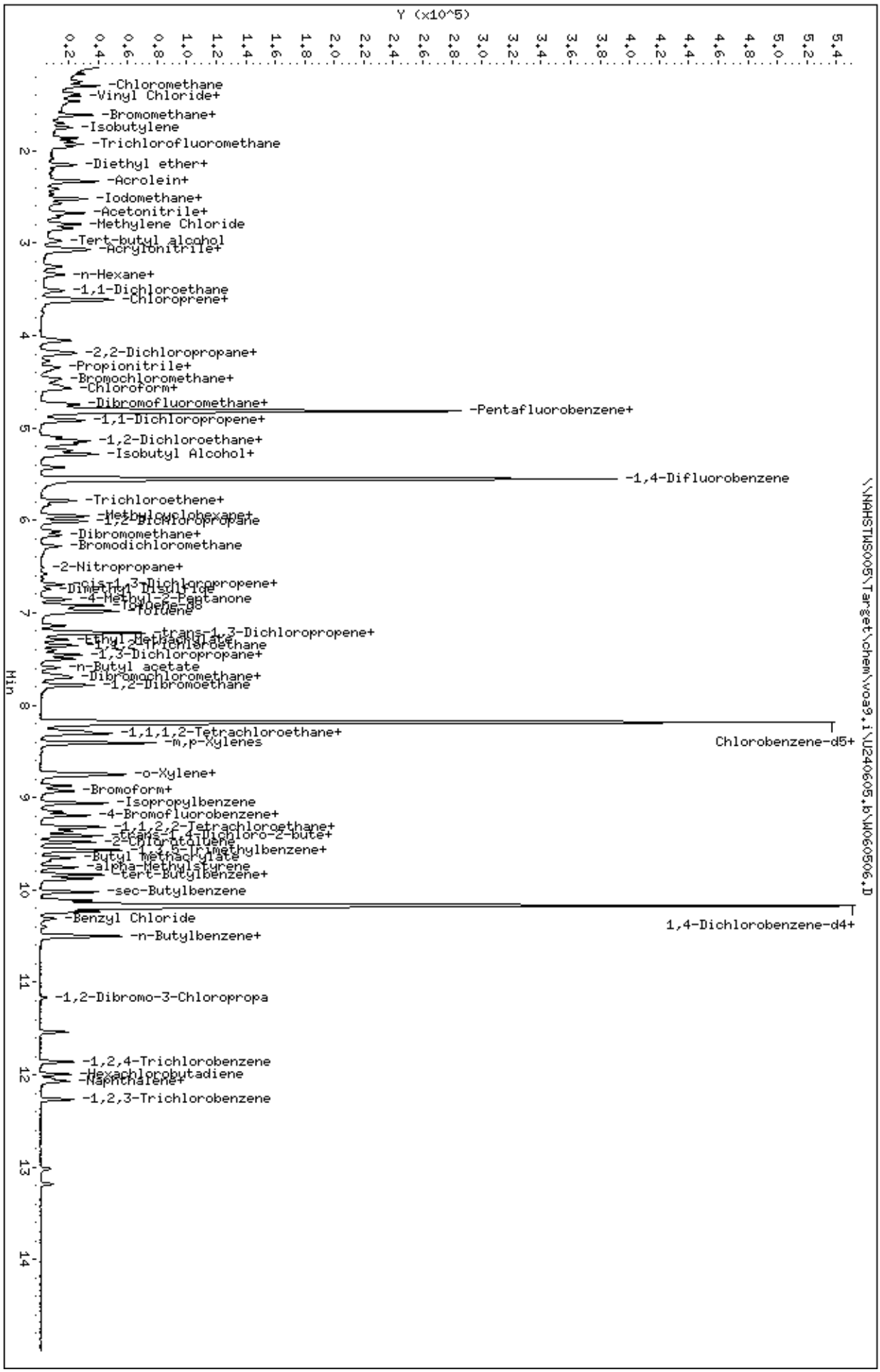
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Report Date: 21-Jun-2024 17:11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	18342	5.00000	4.71(a)
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	18693	5.00000	4.24(a)
81	sec-Butylbenzene	105	10.022	10.022	(0.986)	23796	5.00000	4.62(a)
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	19648	5.00000	4.49(a)
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.995)	13789	5.00000	4.60(a)
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	15200	5.00000	4.99(a)
86	Benzyl Chloride	91	10.311	10.311	(1.260)	6861	5.00000	5.33
87	n-Butylbenzene	91	10.491	10.491	(1.032)	17474	5.00000	5.57
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	14242	5.00000	5.05
89	1,2-Dibromo-3-Chloropropane	155	11.166	11.166	(1.098)	850	5.00000	5.15
90	1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	7290	5.00000	5.48
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	3790	5.00000	4.65(a)
92	Naphthalene	128	12.069	12.069	(1.187)	13942	5.00000	4.88(a)
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	7127	5.00000	4.34(a)
146	Methyl acetate	43	2.716	2.716	(0.564)	8440	5.00000	4.34(a)
138	Freon TF	101	2.334	2.334	(0.485)	5462	5.00000	5.42
141	Cyclohexane	56	4.785	4.785	(0.994)	12503	5.00000	7.01
142	Tetrahydrofuran	42	4.549	4.549	(0.945)	3455	10.0000	12.22(M)
147	Methylcyclohexane	55	5.947	5.947	(1.071)	14165	5.00000	4.07(a)
135	1,4-Dioxane	88	6.172	6.172	(1.282)	1522	100.000	97.90
132	n-Butanol	56	5.831	5.831	(1.211)	3386	100.000	128.06(a)
136	n-Hexane	57	3.338	3.338	(0.693)	6717	5.00000	5.77
139	Diethyl ether	59	2.146	2.146	(0.446)	5410	5.00000	5.26
148	Tert-butyl alcohol	59	2.975	2.975	(0.618)	13064	100.000	111.68
149	Isopropyl alcohol	45	2.570	2.570	(0.534)	9755	100.000	103.32(T)
156	Diisopropyl ether	45	3.623	3.623	(0.752)	22824	5.00000	5.13(T)
162	Butyl acrylate	55	8.733	8.733	(1.067)	10927	5.00000	4.10(a)
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	34343	5.00000	5.93
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	19030	5.00000	5.06
167	Ethanol	45	2.086	2.086	(0.433)	2209	100.000	111.83
172	tert-Butyl formate	59	5.243	5.243	(1.089)	11066	10.0000	9.56(M)
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.299)	32882	100.000	123.14
140	1,3-Butadiene	54	1.404	1.404	(0.292)	3506	5.00000	5.58
182	Epichlorohydrin	57	6.633	6.633	(1.194)	1322	20.0000	18.03(M)
M 94	1,2-Dichloroethylene (total)	96				14419	10.0000	(a)
130	Ethyl Acetate	43	4.542	4.542	(0.943)	3686	5.00000	4.16(aM)
131	Methyl Acrylate	55	4.377	4.377	(0.909)	7354	5.00000	5.09
189	n-Butyl acetate	43	7.593	7.593	(0.928)	8614	5.00000	4.26(aM)
134	Cyclohexanone	55	9.153	9.153	(0.900)	5950	100.000	83.83(a)
185	Isoprene	39	2.154	2.154	(0.447)	1450	5.00000	4.21(a)
188	Isopropyl acetate	43	5.284	5.284	(0.951)	19318	5.00000	4.80(a)
150	Allyl alcohol	57	3.338	3.338	(0.693)	6717	100.000	115.45
194	Acetaldehyde	44	1.464	1.464	(0.304)	6710	20.0000	22.84(M)
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	2476	5.00000	4.52(a)
202	Isobutylene	41	1.749	1.749	(0.363)	3420	5.00000	5.09(M)
133	Ethyl Acrylate	55	5.947	5.947	(1.235)	14187	5.00000	4.09(a)
163	Butyl methacrylate	41	9.647	9.647	(0.949)	8265	5.00000	5.07
159	Propylene oxide	43	2.202	2.202	(0.457)	1086	10.0000	9.43
178	Ethylene oxide	44	1.610	1.610	(0.334)	17362	10.0000	10.79(M)
203	2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	4398	5.00000	4.18(a)
204	Tetrahydrothiophene	60	7.672	7.672	(0.937)	5491	5.00000	4.29(aA)
205	sec-Butyl Ether	57	7.214	7.214	(0.881)	15592	5.00000	4.71(aAM)

187 n-Amyl acetate	43	8.931	8.931 (1.091)	11041	5.00000	4.39(aM)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.



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Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

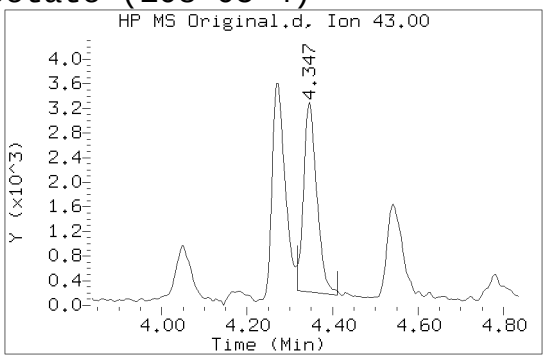
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LabSampID : VSTD005

Vinyl Acetate (108-05-4)

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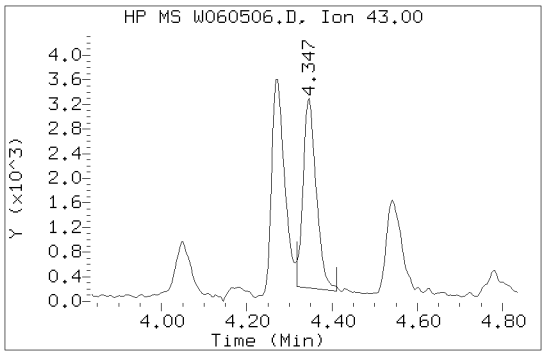
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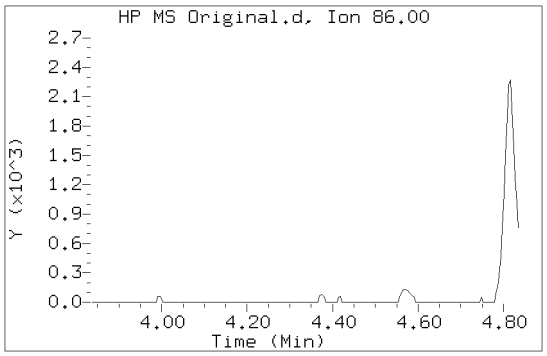
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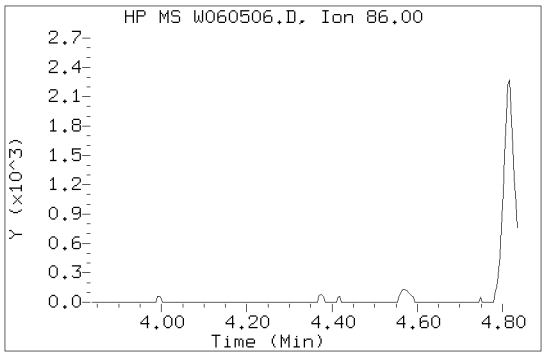
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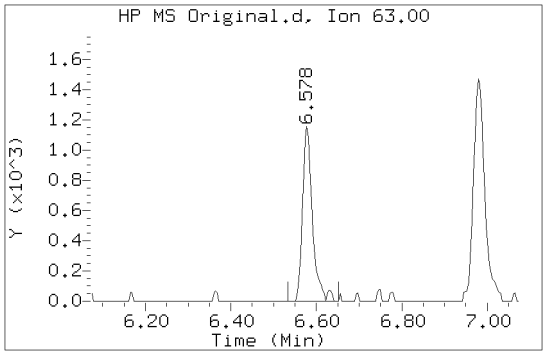


2-Chloroethylvinyl ether (110-75-8)

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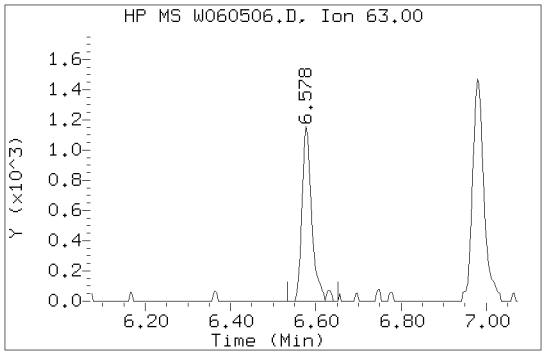
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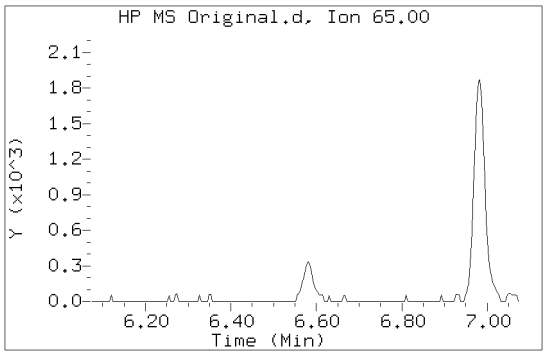
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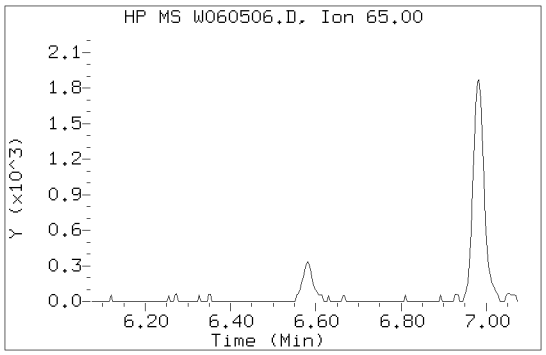
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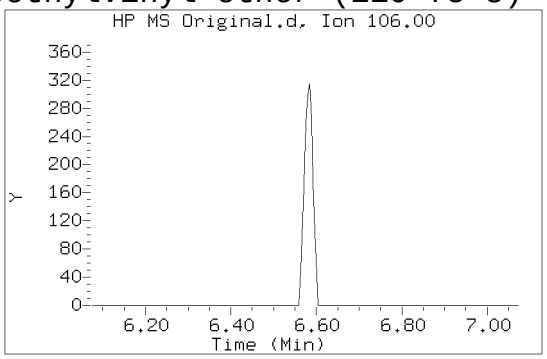
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LabSampID : VSTD005

2-Chloroethylvinyl ether (110-75-8)

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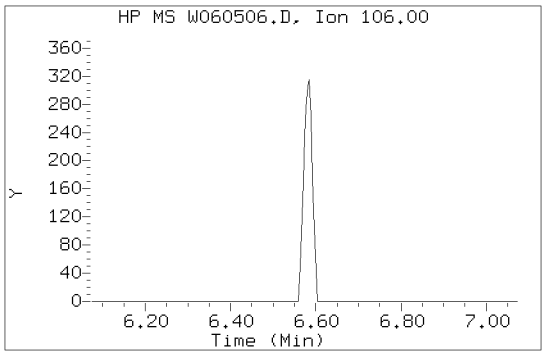
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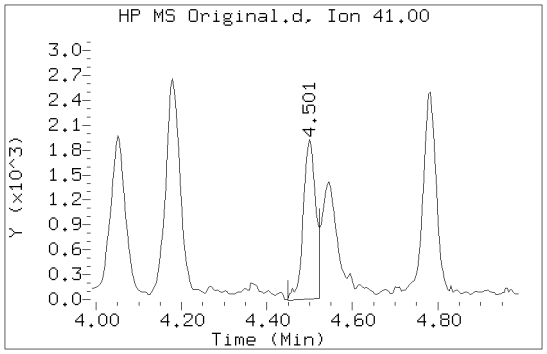


Methacrylonitrile (126-98-7)

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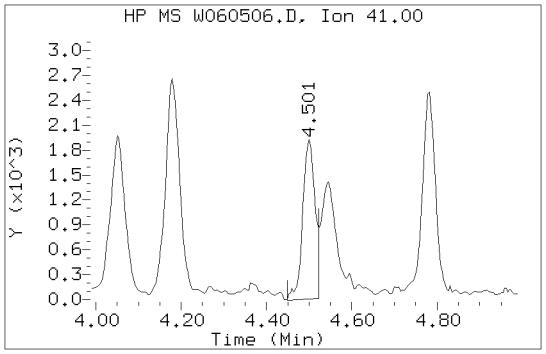
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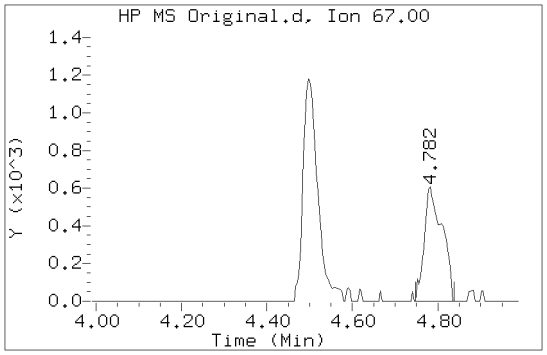
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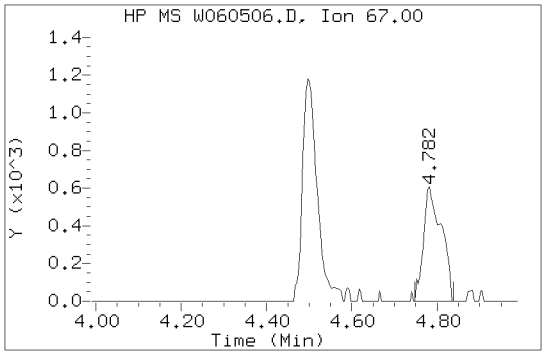
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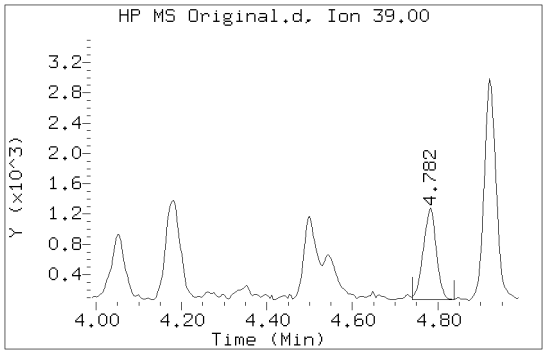
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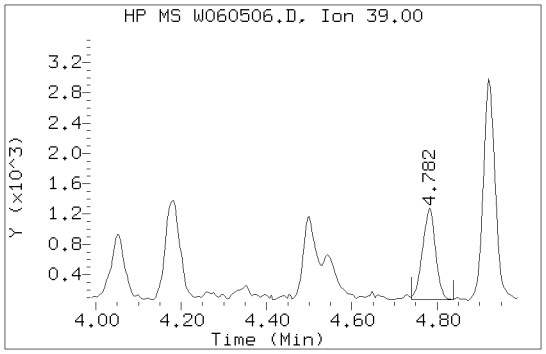
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AFTER

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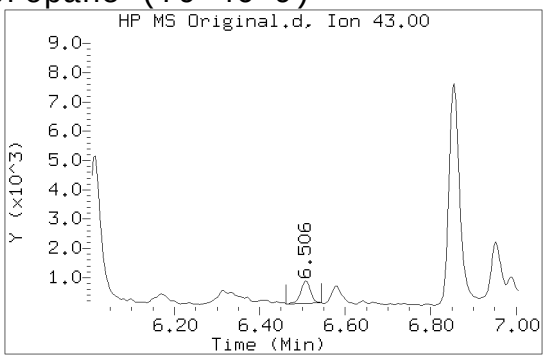
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LabSampID : VSTD005

2-Nitropropane (79-46-9)

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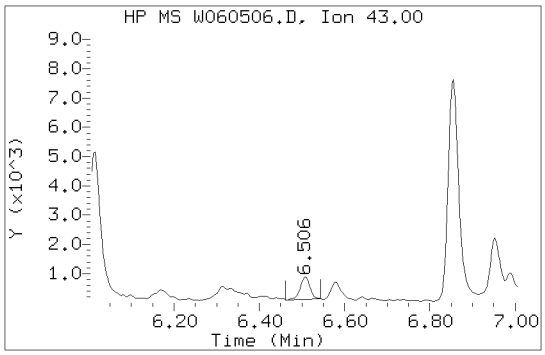
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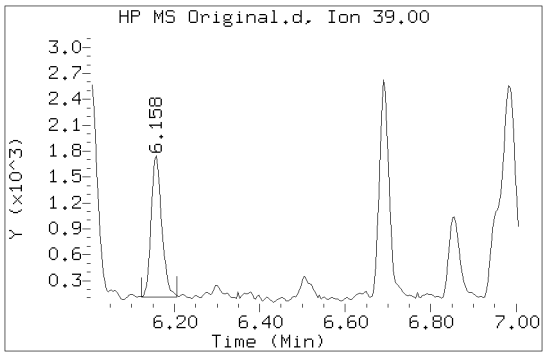
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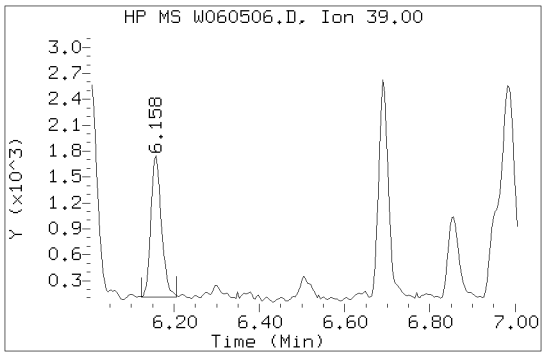
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AFTER

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RUCHA
PATEL

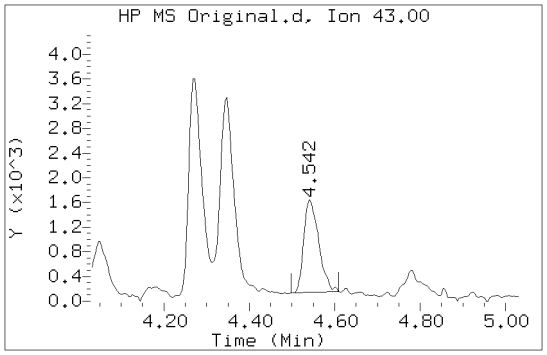


Ethyl Acetate (141-78-6)

Reason Code:

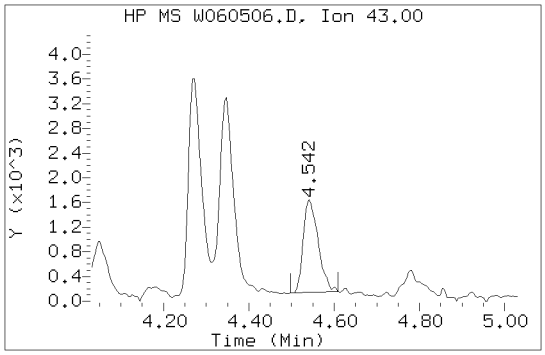
BEFORE

MASS
43
AREA
3686
HEIGHT
1501
21-Jun-2024
17:11
RUCHA
PATEL



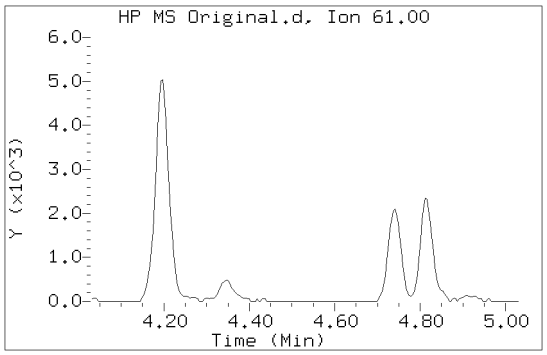
AFTER

MASS
43
AREA
3686
HEIGHT
1501
21-Jun-2024
17:11
RUCHA
PATEL



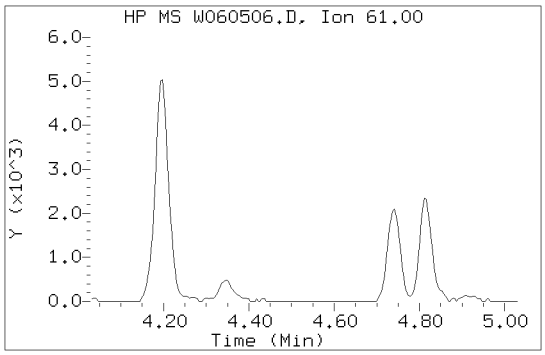
BEFORE

MASS
61
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
61
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



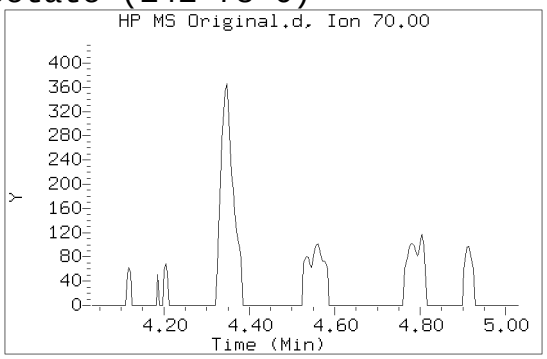
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Inj Date : 05-JUN-2024 20:24
InstruID : VOA9.i
LabSampID : VSTD005

Ethyl Acetate (141-78-6)

Reason Code:

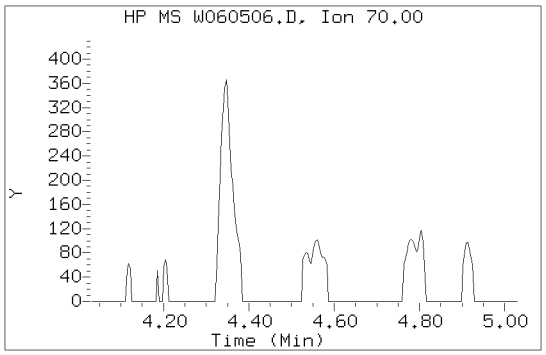
BEFORE

MASS
70
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
70
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

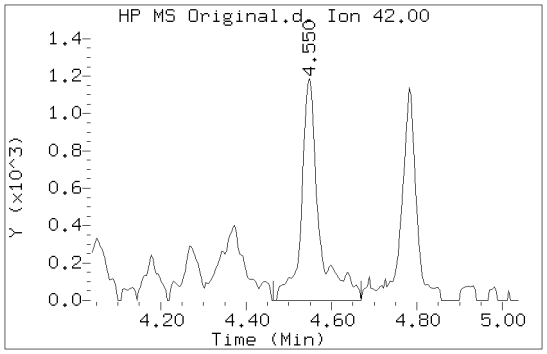


Tetrahydrofuran (109-99-9)

Reason Code:

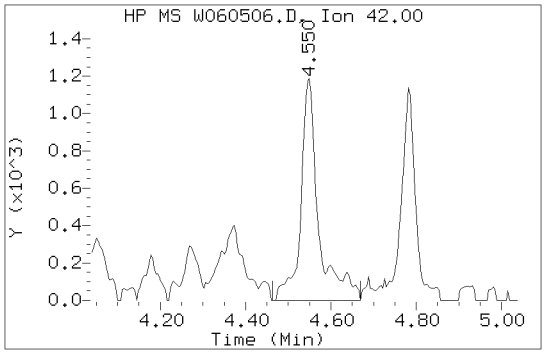
BEFORE

MASS
42
AREA
3455
HEIGHT
1186
21-Jun-2024
17:11
RUCHA
PATEL



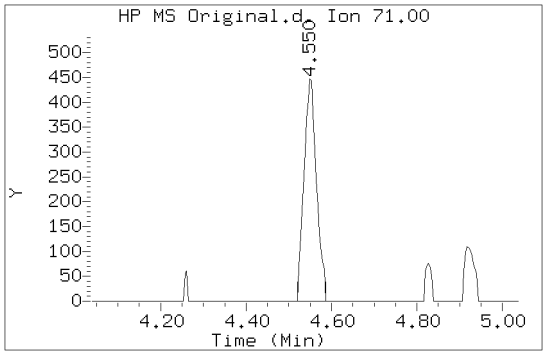
AFTER

MASS
42
AREA
3455
HEIGHT
1186
21-Jun-2024
17:11
RUCHA
PATEL



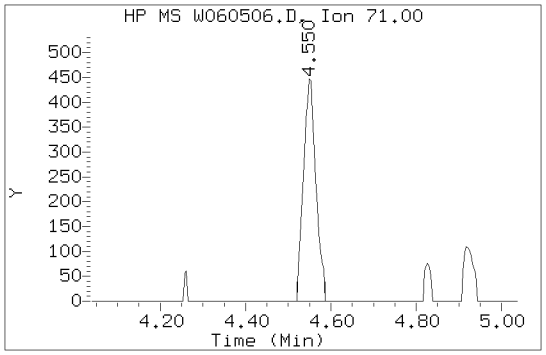
BEFORE

MASS
71
AREA
913
HEIGHT
447
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
71
AREA
913
HEIGHT
447
21-Jun-2024
17:11
RUCHA
PATEL

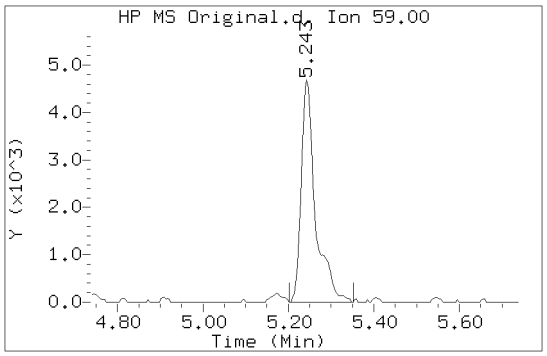


tert-Butyl formate (762-75-4)

Reason Code:

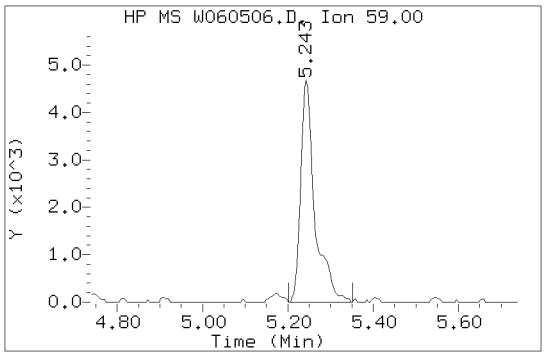
BEFORE

MASS
59
AREA
11066
HEIGHT
4687
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
59
AREA
11066
HEIGHT
4687
21-Jun-2024
17:11
RUCHA
PATEL



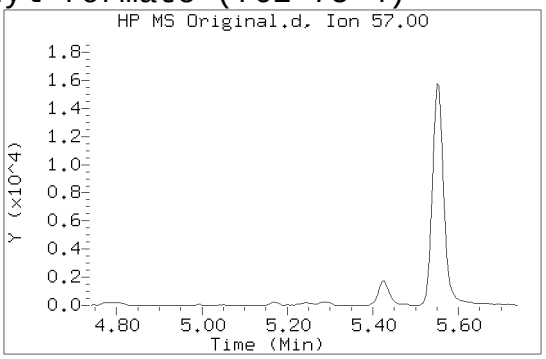
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060506.D
Inj Date : 05-JUN-2024 20:24
InstruID : VOA9.i
LabSampID : VSTD005

tert-Butyl formate (762-75-4)

Reason Code:

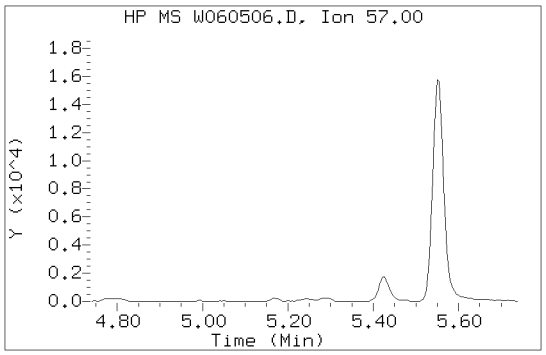
BEFORE

MASS
57
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



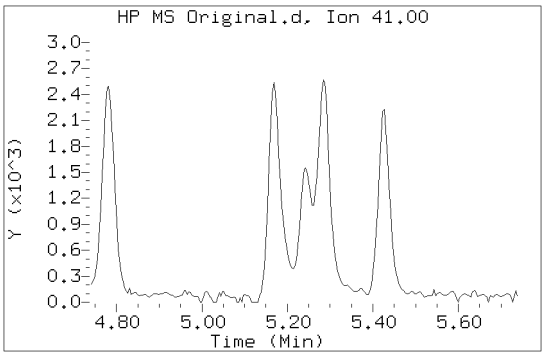
AFTER

MASS
57
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



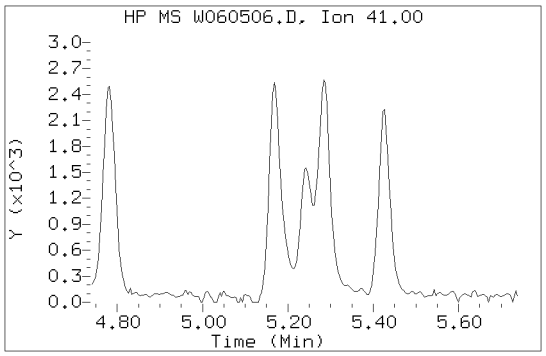
BEFORE

MASS
41
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
41
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

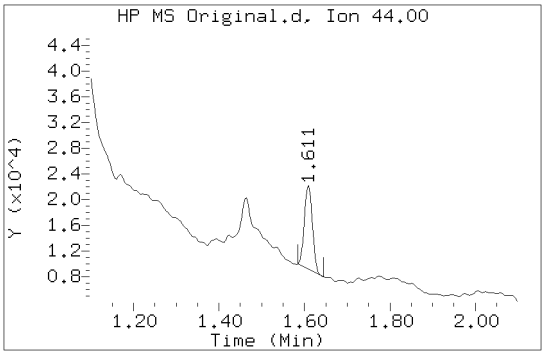


Ethylene oxide (75-21-8)

Reason Code:

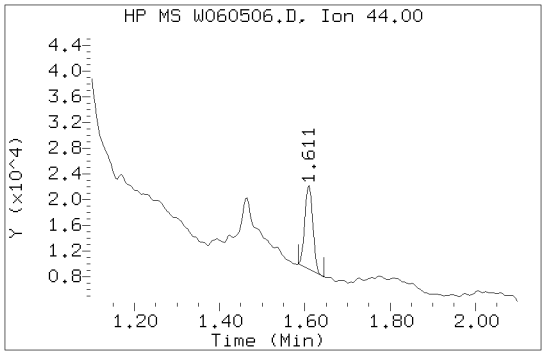
BEFORE

MASS
44
AREA
17362
HEIGHT
13101
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
44
AREA
17362
HEIGHT
13101
21-Jun-2024
17:11
RUCHA
PATEL

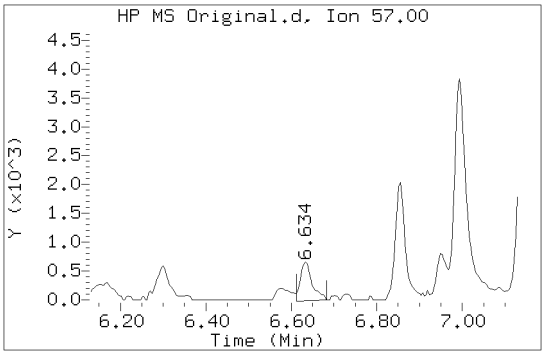


Epichlorohydrin (106-89-8)

Reason Code:

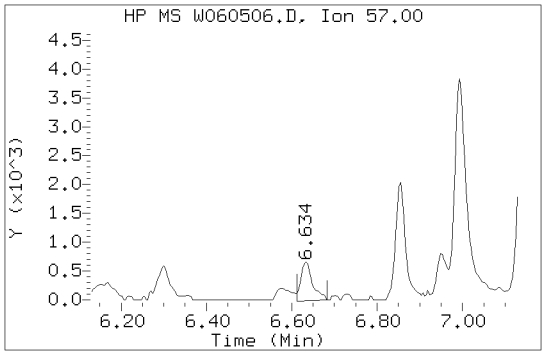
BEFORE

MASS
57
AREA
1322
HEIGHT
677
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
57
AREA
1322
HEIGHT
677
21-Jun-2024
17:11
RUCHA
PATEL



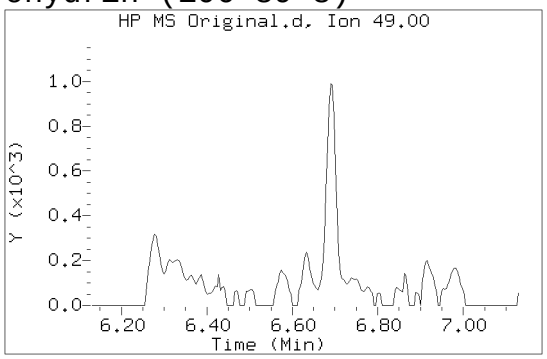
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Inj Date : 05-JUN-2024 20:24
InstruID : VOA9.i
LabSampID : VSTD005

Epichlorohydrin (106-89-8)

Reason Code:

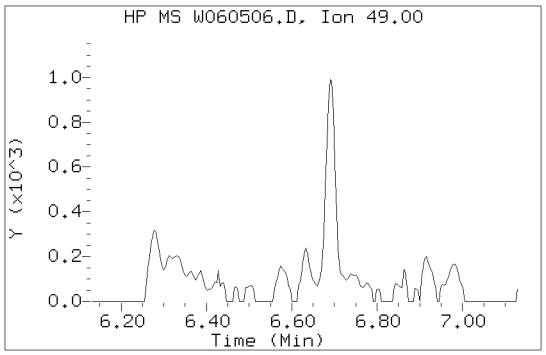
BEFORE

MASS
49
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
49
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

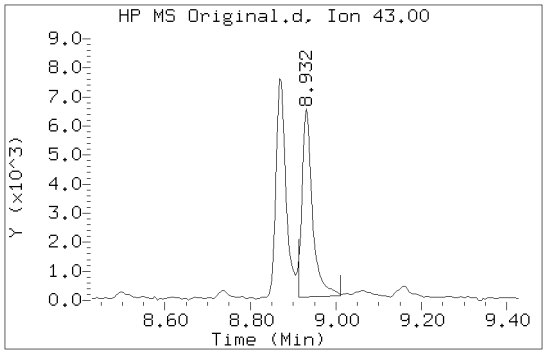


n-Amyl acetate (628-63-7)

Reason Code:

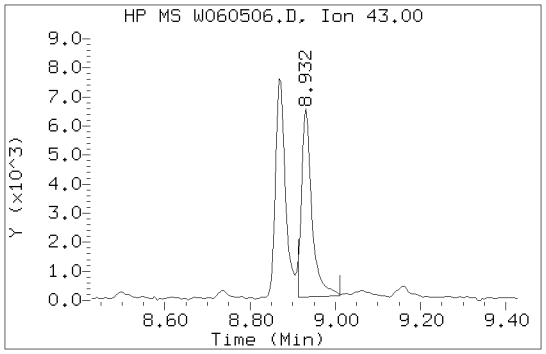
BEFORE

MASS
43
AREA
11041
HEIGHT
6467
21-Jun-2024
17:11
RUCHA
PATEL



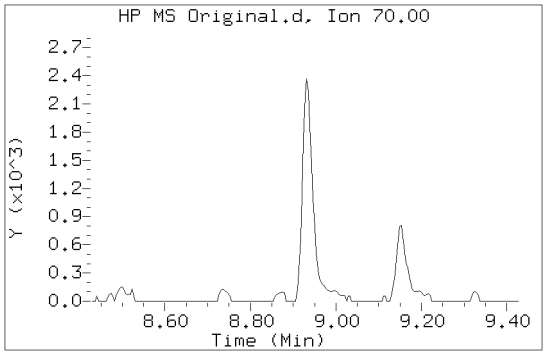
AFTER

MASS
43
AREA
11041
HEIGHT
6467
21-Jun-2024
17:11
RUCHA
PATEL



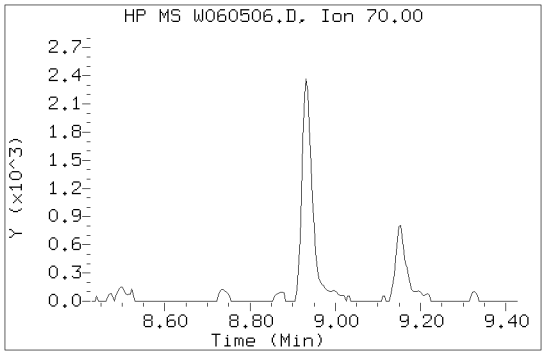
BEFORE

MASS
70
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



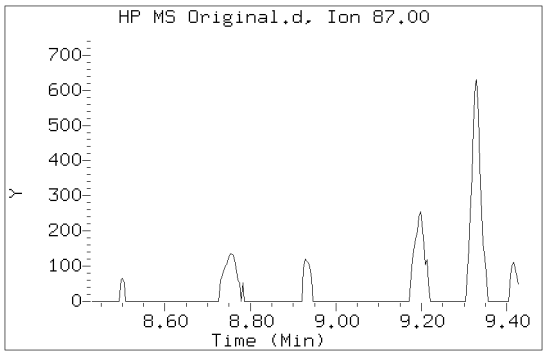
AFTER

MASS
70
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



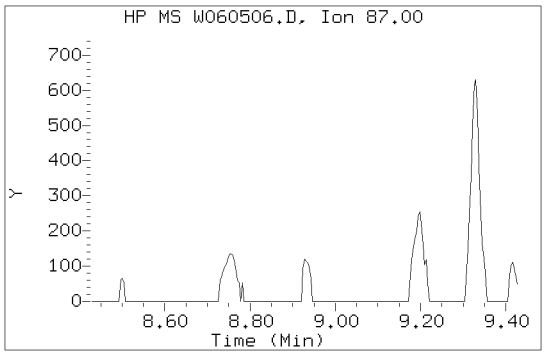
BEFORE

MASS
87
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
87
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

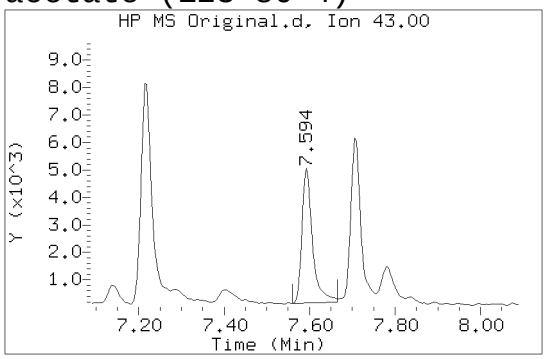


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Inj Date : 05-JUN-2024 20:24
InstruID : VOA9.i
LabSampID : VSTD005

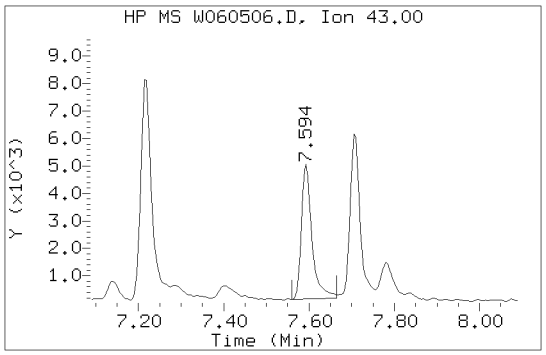
n-Butyl acetate (123-86-4)

Reason Code:

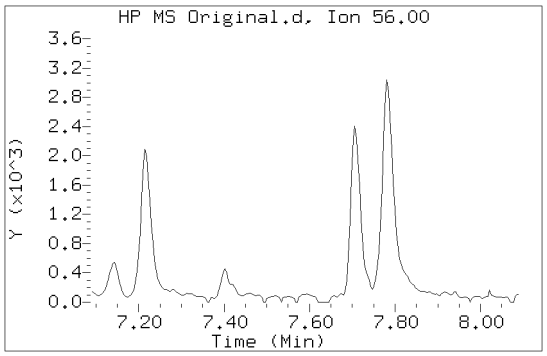
BEFORE
MASS
43
AREA
8614
HEIGHT
4915
21-Jun-2024
17:11
RUCHA
PATEL



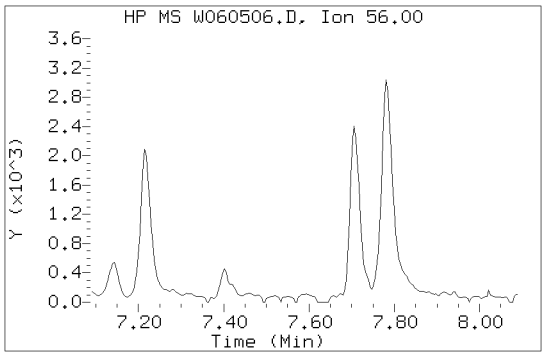
AFTER
MASS
43
AREA
8614
HEIGHT
4915
21-Jun-2024
17:11
RUCHA
PATEL



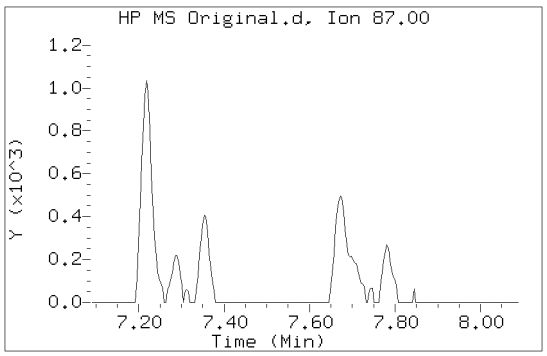
BEFORE
MASS
56
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



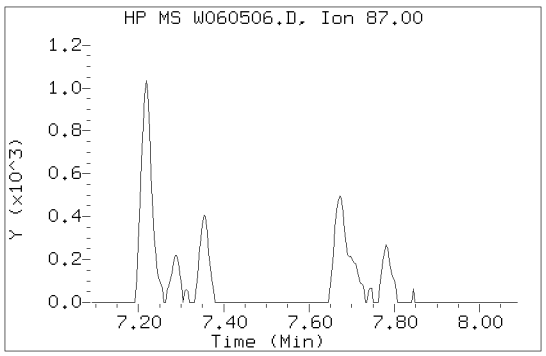
AFTER
MASS
56
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



BEFORE
MASS
87
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



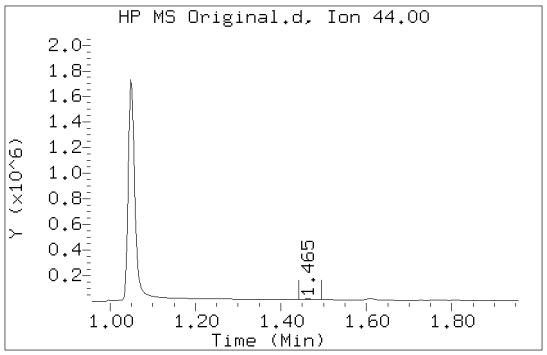
AFTER
MASS
87
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



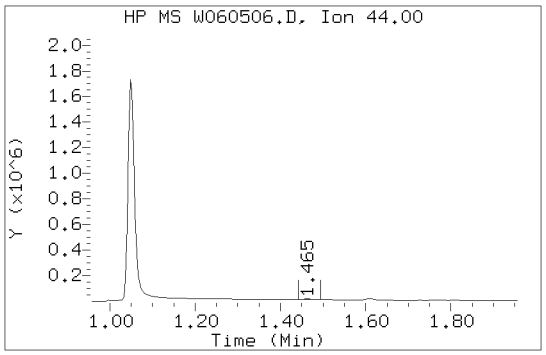
Acetaldehyde (75-07-0)

Reason Code:

BEFORE
MASS
44
AREA
6710
HEIGHT
5435
21-Jun-2024
17:11
RUCHA
PATEL



AFTER
MASS
44
AREA
6710
HEIGHT
5435
21-Jun-2024
17:11
RUCHA
PATEL



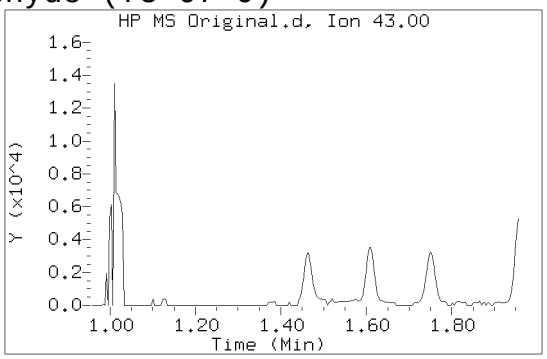
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Inj Date : 05-JUN-2024 20:24
InstruID : VOA9.i
LabSampID : VSTD005

Acetaldehyde (75-07-0)

Reason Code:

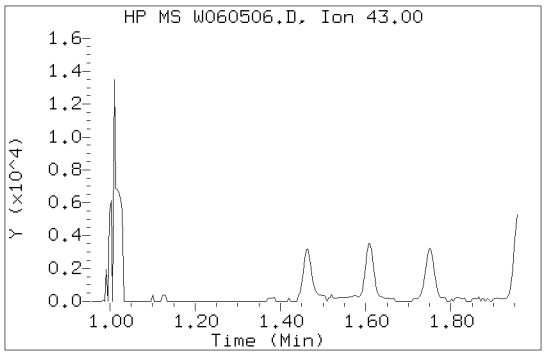
BEFORE

MASS
43
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



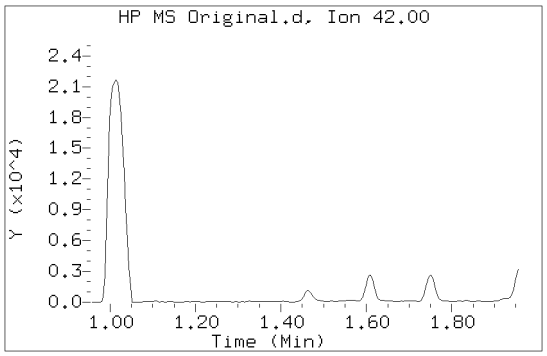
AFTER

MASS
43
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



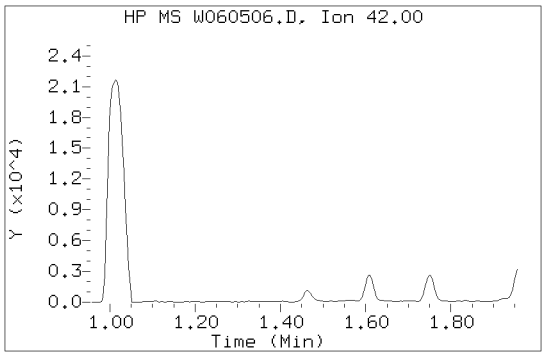
BEFORE

MASS
42
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
42
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

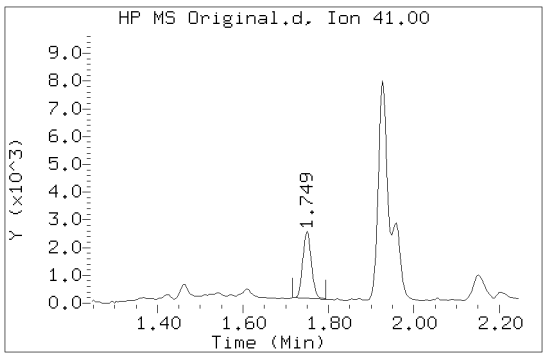


Isobutylene (115-11-7)

Reason Code:

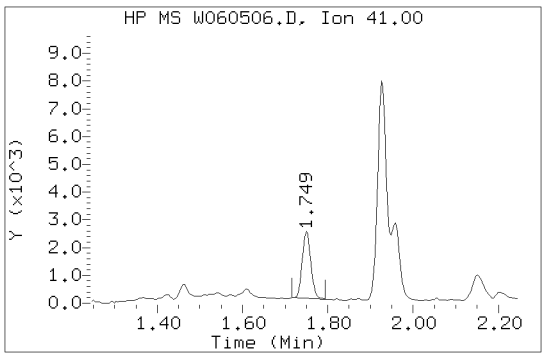
BEFORE

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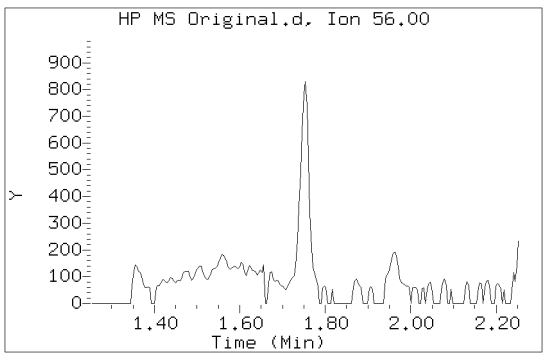
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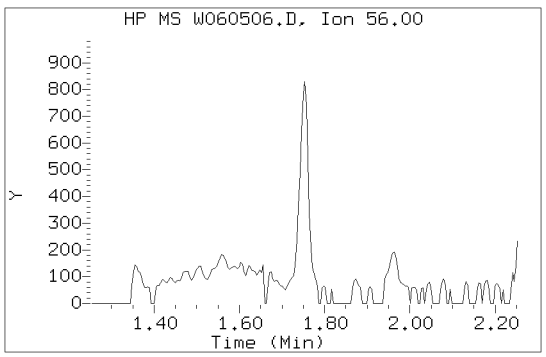
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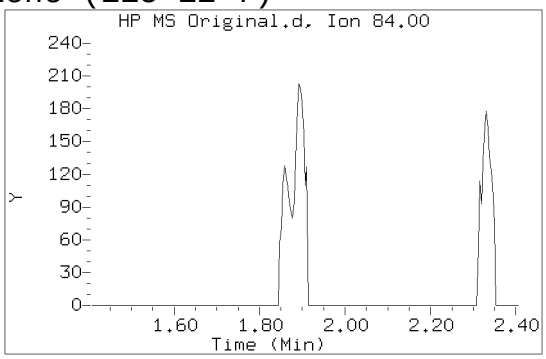
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Inj Date : 05-JUN-2024 20:24
InstruID : VOA9.i
LabSampID : VSTD005

Isobutylene (115-11-7)

Reason Code:

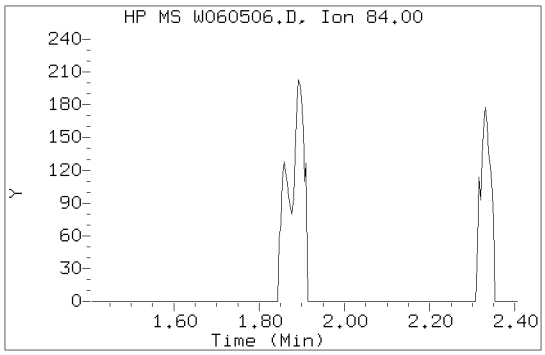
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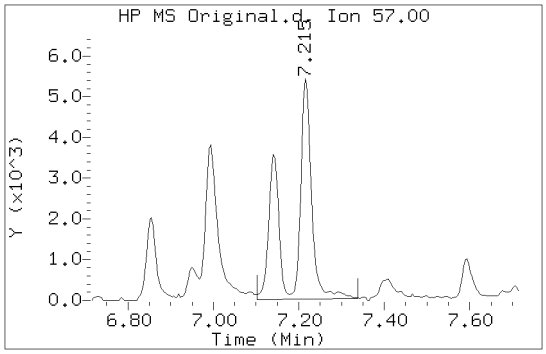


sec-Butyl Ether (6863-58-7)

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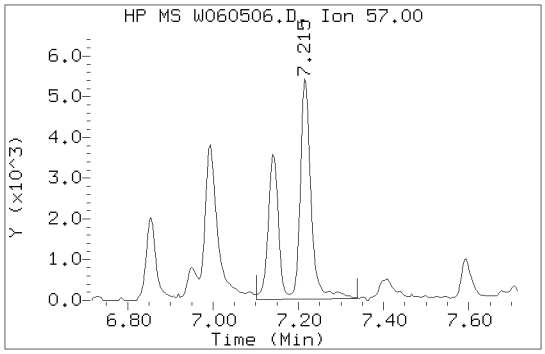
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Data File: \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060507.D Page 1
Report Date: 21-Jun-2024 17:12

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060507.D
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Inj Date : 05-JUN-2024 20:46
Operator : TS Inst ID: VOA9.i
Smp Info : VSTD020;VSTD020;1;6
Misc Info : V9;WATER;0;1;
Comment   :
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Meth Date : 21-Jun-2024 17:12 VOA9.i Quant Type: ISTD
Cal Date : 05-JUN-2024 20:24 Cal File: W060506.D
Als bottle: 9 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.819	4.819	(1.000)	207516	50.0000	
2	Dichlorodifluoromethane	85	1.168	1.168	(0.242)	12496	20.0000	19.88
3	Chloromethane	50	1.303	1.303	(0.270)	52001	20.0000	19.67
4	Propionitrile	54	4.343	4.343	(0.901)	40218	200.000	200.87(a)
5	Vinyl Chloride	62	1.381	1.381	(0.287)	25829	20.0000	18.32
6	Bromomethane	94	1.621	1.621	(0.336)	12706	20.0000	19.57
7	Chloroethane	64	1.704	1.704	(0.354)	19725	20.0000	19.24
8	Trichlorofluoromethane	101	1.899	1.899	(0.394)	35153	20.0000	19.34
9	Acrolein	56	2.270	2.270	(0.471)	2397	40.0000	33.57
10	Acetone	43	2.412	2.412	(0.501)	23436	40.0000	39.97
11	1,1-Dichloroethene	96	2.333	2.333	(0.484)	22140	20.0000	18.60
12	Isobutyl Alcohol	43	5.284	5.284	(1.096)	77253	400.000	350.03(a)
13	Acetonitrile	39	2.675	2.675	(0.555)	35153	200.000	205.87(a)
14	Allyl Chloride	41	2.675	2.675	(0.555)	78943	20.0000	20.33(a)
15	Iodomethane	142	2.472	2.472	(0.513)	9380	40.0000	36.59
16	Acrylonitrile	53	3.072	3.072	(0.638)	21490	40.0000	40.38
17	Methylene Chloride	84	2.798	2.798	(0.581)	29540	20.0000	19.80
18	Methyl tert-butyl ether	73	3.083	3.083	(0.640)	72150	20.0000	20.38
19	Carbon Disulfide	76	2.525	2.525	(0.524)	121598	40.0000	35.64
20	trans-1,2-Dichloroethene	96	3.061	3.061	(0.635)	24223	20.0000	19.05

21 Vinyl Acetate	43	4.343	4.343 (0.901)	29884	40.0000	37.13
22 1,1-Dichloroethane	63	3.514	3.514 (0.729)	49079	20.0000	19.48

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060507.D Page 2
Report Date: 21-Jun-2024 17:12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
23	Chloroprene	53	3.608	3.608	(0.749)	38424	20.0000	18.16
24	2-Butanone	43	4.268	4.268	(0.886)	28126	40.0000	36.27
25	Methacrylonitrile	41	4.496	4.496	(0.933)	16755	20.0000	19.18(aM)
26	2,2-Dichloropropane	77	4.182	4.182	(0.868)	30792	20.0000	17.43
27	cis-1,2-Dichloroethene	96	4.197	4.197	(0.871)	28739	20.0000	18.87
28	Chloroform	83	4.575	4.575	(0.949)	48343	20.0000	17.67
29	Bromochloromethane	128	4.470	4.470	(0.928)	14487	20.0000	19.09
$ 30	Dibromofluoromethane	113	4.748	4.748	(0.985)	28304	20.0000	18.92
31	1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	35464	20.0000	18.05
32	1,1-Dichloropropene	75	4.920	4.920	(0.886)	35383	20.0000	18.09
33	1,2-Dichloroethane	62	5.175	5.175	(0.932)	41071	20.0000	19.23
34	Carbon Tetrachloride	117	4.913	4.913	(0.885)	28402	20.0000	17.60
$ 35	1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	35341	20.0000	19.38
* 36	1,4-Difluorobenzene	114	5.554	5.554	(1.000)	302737	50.0000	
37	Benzene	78	5.137	5.137	(0.925)	106397	20.0000	18.62
38	Trichloroethene	130	5.786	5.786	(1.042)	27422	20.0000	18.18
39	Bromodichloromethane	83	6.277	6.277	(1.130)	31154	20.0000	17.34
40	Methyl Methacrylate	41	5.827	5.827	(1.209)	11132	20.0000	19.05(a)
41	2-Chloroethylvinyl ether	63	6.577	6.577	(1.184)	9480	40.0000	30.89
42	1,2-Dichloropropane	63	6.007	6.007	(1.082)	30155	20.0000	18.74
43	2-Nitropropane	43	6.509	6.509	(1.351)	5421	20.0000	18.12(M)
44	Dibromomethane	93	6.120	6.120	(1.102)	17413	20.0000	18.71
45	4-Methyl-2-Pentanone	43	6.854	6.854	(0.837)	56134	40.0000	35.43
46	cis-1,3-Dichloropropene	75	6.689	6.689	(1.205)	35170	20.0000	16.71
* 47	Chlorobenzene-d5	117	8.185	8.185	(1.000)	274071	50.0000	
$ 48	Toluene-d8	98	6.922	6.922	(0.846)	102740	20.0000	18.66
49	Ethyl Methacrylate	69	7.289	7.289	(1.312)	36653	20.0000	18.71(a)
50	Toluene	91	6.978	6.978	(0.853)	113021	20.0000	18.47
51	trans-1,3-Dichloropropene	75	7.195	7.195	(1.296)	29131	20.0000	16.77
52	2-Hexanone	43	7.214	7.214	(0.881)	50519	40.0000	43.38
53	1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	22461	20.0000	19.18
54	1,3-Dichloropropane	76	7.495	7.495	(0.916)	46487	20.0000	18.53
55	Dibromochloromethane	129	7.690	7.690	(0.940)	23412	20.0000	17.45
56	Tetrachloroethene	164	7.454	7.454	(0.911)	21877	20.0000	18.39
57	1,2-Dibromoethane	107	7.784	7.784	(0.951)	24396	20.0000	18.13
58	1-Chlorohexane	55	8.193	8.193	(1.475)	22935	20.0000	17.88
59	Chlorobenzene	112	8.208	8.208	(1.003)	72064	20.0000	18.80
60	1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	23386	20.0000	17.65
61	Ethylbenzene	106	8.305	8.305	(1.015)	35673	20.0000	18.25
62	m,p-Xylenes	106	8.406	8.406	(1.027)	90871	40.0000	37.42
63	o-Xylene	106	8.747	8.747	(1.069)	44936	20.0000	19.12
64	Styrene	104	8.759	8.759	(1.070)	71738	20.0000	18.87
66	Bromoform	173	8.916	8.916	(1.089)	12657	20.0000	16.21
67	Isopropylbenzene	105	9.062	9.062	(1.107)	108271	20.0000	19.39
68	1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	37438	20.0000	18.58
$ 69	4-Bromofluorobenzene	95	9.190	9.190	(1.123)	38568	20.0000	19.36
* 70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	150351	50.0000	
71	1,2,3-Trichloropropane	75	9.358	9.358	(0.920)	35060	20.0000	17.94
72	trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	7145	20.0000	17.24(a)
73	n-Propylbenzene	91	9.411	9.411	(0.926)	125437	20.0000	18.35
74	Bromobenzene	156	9.317	9.317	(0.916)	31330	20.0000	18.55
75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	83784	20.0000	18.61

76	2-Chlorotoluene	91	9.482	9.482 (0.933)	79803	20.0000	18.00
77	4-Chlorotoluene	91	9.576	9.576 (0.942)	91324	20.0000	17.89

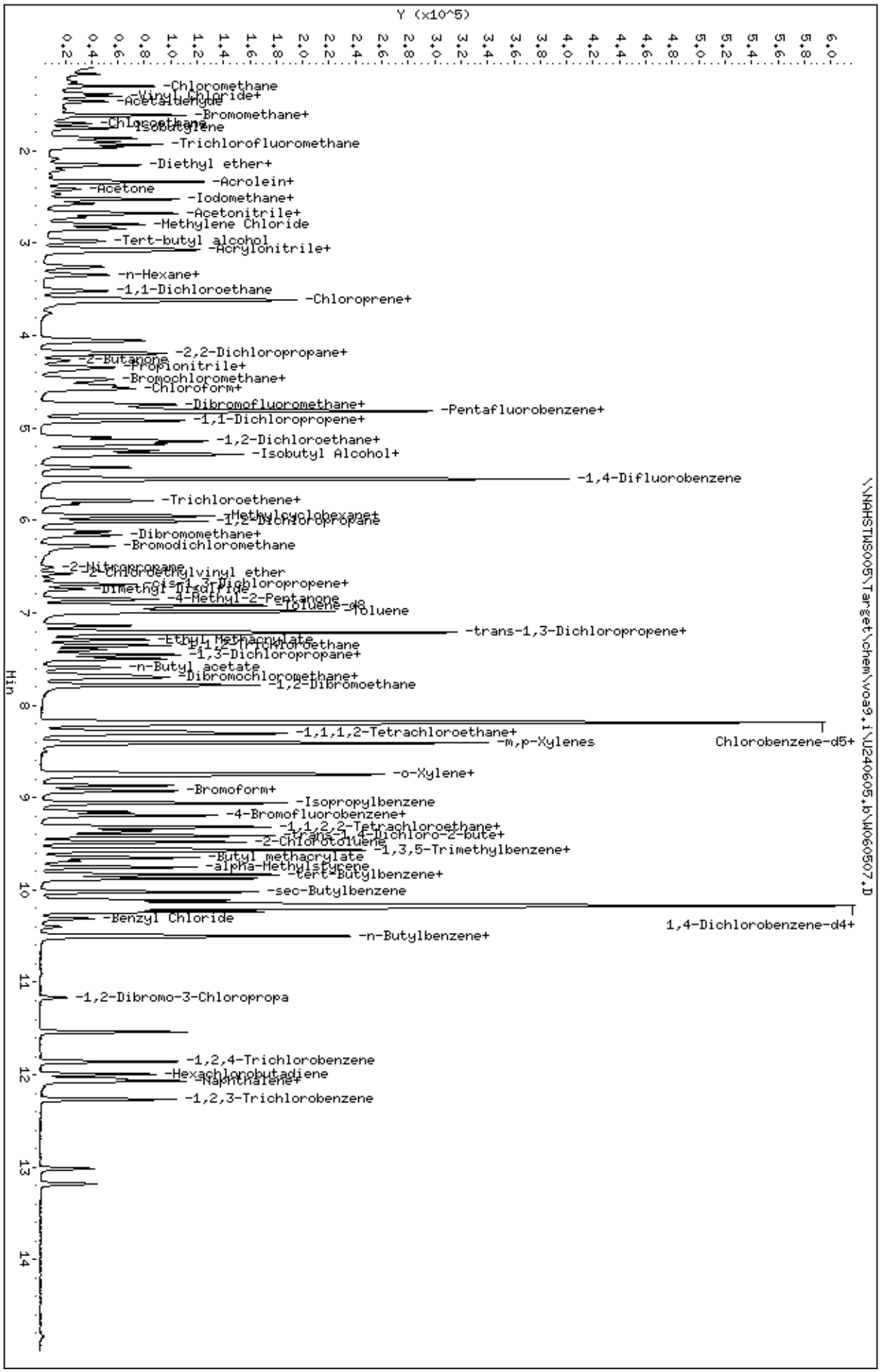
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Report Date: 21-Jun-2024 17:12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	76545	20.0000	18.61
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	82609	20.0000	17.74
81	sec-Butylbenzene	105	10.022	10.022	(0.986)	102428	20.0000	18.83
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	84606	20.0000	18.31
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	54495	20.0000	17.23
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	58041	20.0000	18.43
86	Benzyl Chloride	91	10.311	10.311	(1.260)	26276	20.0000	16.40
87	n-Butylbenzene	91	10.491	10.491	(1.032)	74719	20.0000	17.30
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	54965	20.0000	18.51
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	3946	20.0000	17.46
90	1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	31651	20.0000	17.09
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	15317	20.0000	17.79
92	Naphthalene	128	12.069	12.069	(1.187)	73366	20.0000	16.78
93	1,2,3-Trichlorobenzene	180	12.267	12.267	(1.206)	30365	20.0000	17.52
146	Methyl acetate	43	2.716	2.716	(0.564)	30705	20.0000	19.59
138	Freon TF	101	2.337	2.337	(0.485)	20004	20.0000	19.62
141	Cyclohexane	56	4.785	4.785	(0.993)	34880	20.0000	18.90
142	Tetrahydrofuran	42	4.545	4.545	(0.943)	9707	40.0000	35.66
147	Methylcyclohexane	55	5.947	5.947	(1.071)	62853	20.0000	18.04
135	1,4-Dioxane	88	6.168	6.168	(1.280)	6391	400.000	403.98
132	n-Butanol	56	5.823	5.823	(1.208)	14625	400.000	364.56(a)
136	n-Hexane	57	3.342	3.342	(0.694)	24049	20.0000	18.80
139	Diethyl ether	59	2.150	2.150	(0.446)	20646	20.0000	20.08
148	Tert-butyl alcohol	59	2.974	2.974	(0.617)	50600	400.000	402.91
149	Isopropyl alcohol	45	2.570	2.570	(0.533)	41045	400.000	406.00(T)
156	Diisopropyl ether	45	3.623	3.623	(0.752)	91920	20.0000	19.75(T)
162	Butyl acrylate	55	8.732	8.732	(1.067)	46737	20.0000	17.27
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	135389	20.0000	19.53
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	85948	20.0000	18.74
167	Ethanol	45	2.090	2.090	(0.434)	7529	400.000	403.05
172	tert-Butyl formate	59	5.242	5.242	(1.088)	46037	40.0000	37.64
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.299)	160068	400.000	380.85
140	1,3-Butadiene	54	1.408	1.408	(0.292)	13426	20.0000	19.75
182	Epichlorohydrin	57	6.633	6.633	(1.194)	6197	80.0000	78.37
M 94	1,2-Dichloroethylene (total)	96				52962	40.0000	(a)
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	32863	20.0000	17.95
130	Ethyl Acetate	43	4.538	4.538	(0.942)	13954	20.0000	23.56(M)
131	Methyl Acrylate	55	4.373	4.373	(0.907)	31993	20.0000	19.43
189	n-Butyl acetate	43	7.589	7.589	(0.927)	34863	20.0000	17.00(M)
134	Cyclohexanone	55	9.152	9.152	(0.900)	27032	400.000	415.01(a)
185	Isoprene	39	2.161	2.161	(0.449)	6647	20.0000	19.11
188	Isopropyl acetate	43	5.284	5.284	(0.951)	76293	20.0000	17.99
150	Allyl alcohol	57	3.342	3.342	(0.694)	24049	400.000	376.04
194	Acetaldehyde	44	1.464	1.464	(0.304)	24633	80.0000	80.00(M)
200	Dimethyl Disulfide	94	6.746	6.746	(0.824)	12285	20.0000	17.30
202	Isobutylene	41	1.752	1.752	(0.364)	13367	20.0000	19.69(M)
133	Ethyl Acrylate	55	5.947	5.947	(1.234)	62853	20.0000	17.92
163	Butyl methacrylate	41	9.647	9.647	(0.949)	32529	20.0000	20.98
159	Propylene oxide	43	2.206	2.206	(0.458)	4976	40.0000	42.74
178	Ethylene oxide	44	1.610	1.610	(0.334)	70538	40.0000	24.67(M)
203	2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	24452	20.0000	16.77
204	Tetrahydrothiophene	60	7.672	7.672	(0.937)	24742	20.0000	19.04(A)

205 sec-Butyl Ether	57	7.214	7.214 (0.881)	59356	20.0000	17.68(AM)
187 n-Amyl acetate	43	8.931	8.931 (1.091)	45186	20.0000	17.70(M)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
    exceeded maximum amount.
M - Compound response manually integrated.



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Sample Info: VSTD020;VSTD020;1;6
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Instrument: VOA9.i
Operator: TS
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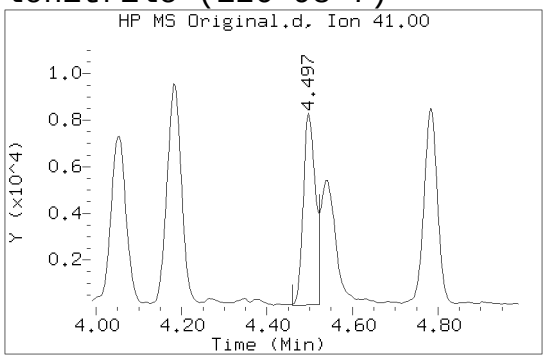
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InstruID : VOA9.i
LabSampID : VSTD020

Methacrylonitrile (126-98-7)

Reason Code:

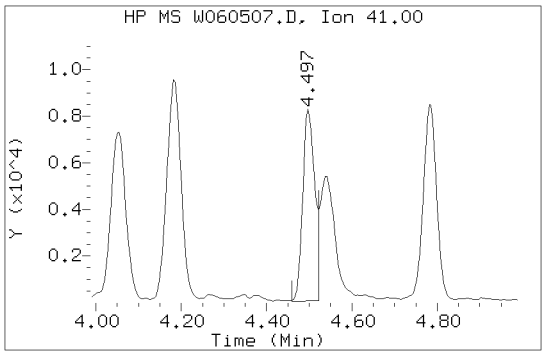
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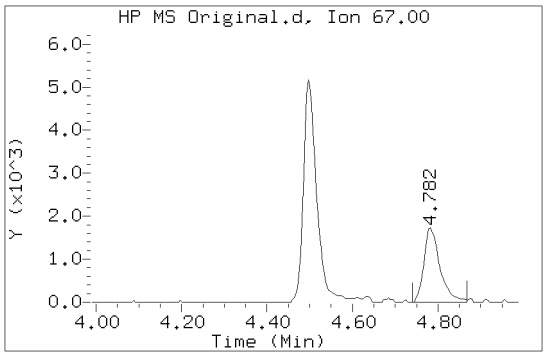
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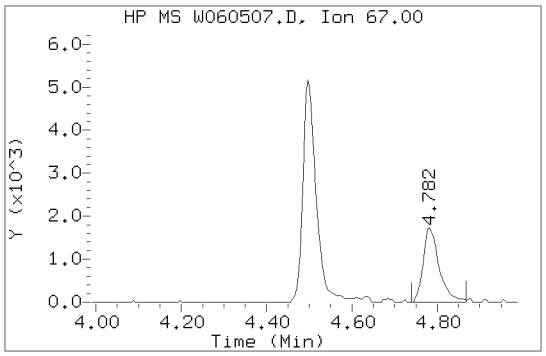
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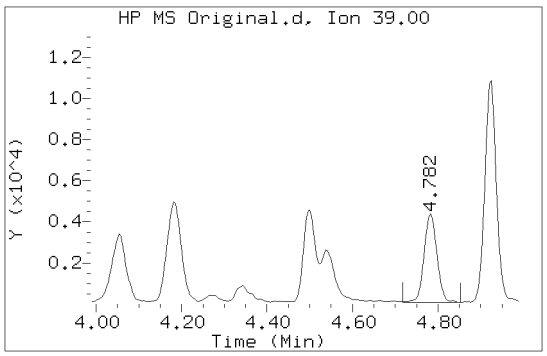
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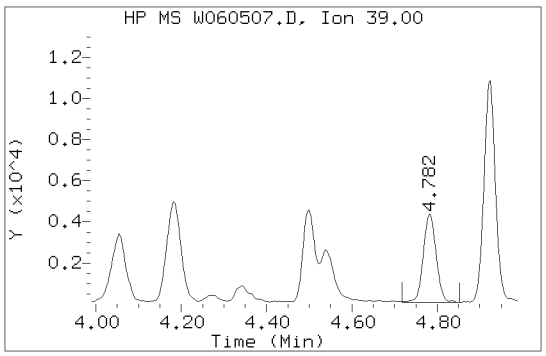
BEFORE

MASS
39
AREA
9004
HEIGHT
4310
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
39
AREA
9004
HEIGHT
4310
21-Jun-2024
17:11
RUCHA
PATEL

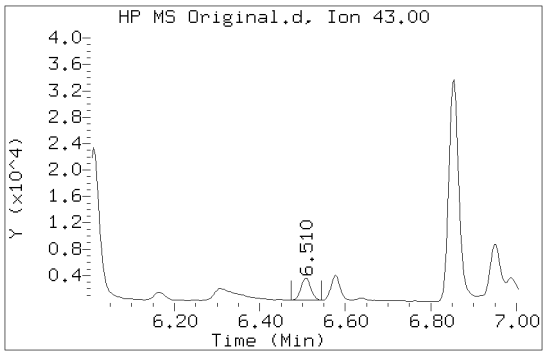


2-Nitropropane (79-46-9)

Reason Code:

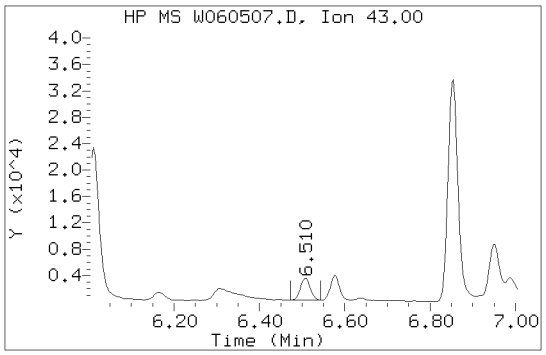
BEFORE

MASS
43
AREA
5421
HEIGHT
3336
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
43
AREA
5421
HEIGHT
3336
21-Jun-2024
17:11
RUCHA
PATEL



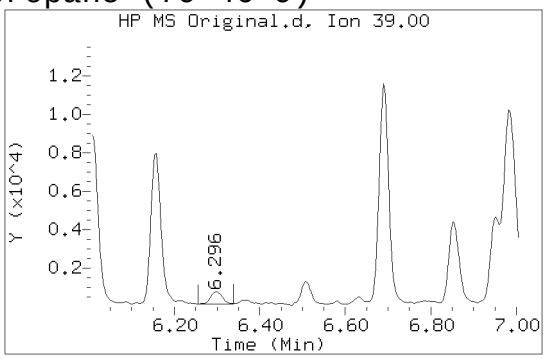
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Inj Date : 05-JUN-2024 20:46
InstruID : VOA9.i
LabSampID : VSTD020

2-Nitropropane (79-46-9)

Reason Code:

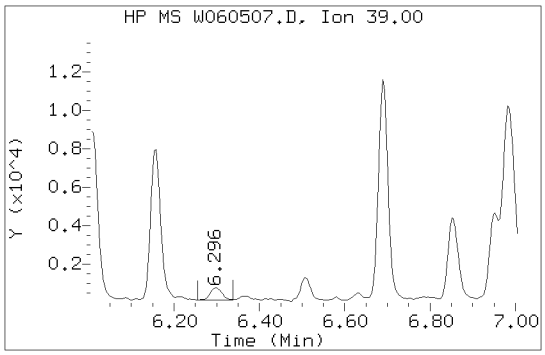
BEFORE

MASS
39
AREA
1184
HEIGHT
639
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
39
AREA
1184
HEIGHT
639
21-Jun-2024
17:11
RUCHA
PATEL

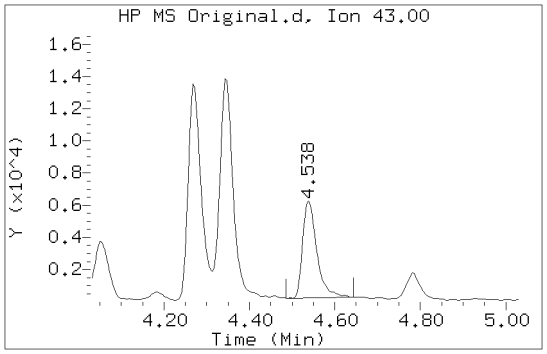


Ethyl Acetate (141-78-6)

Reason Code:

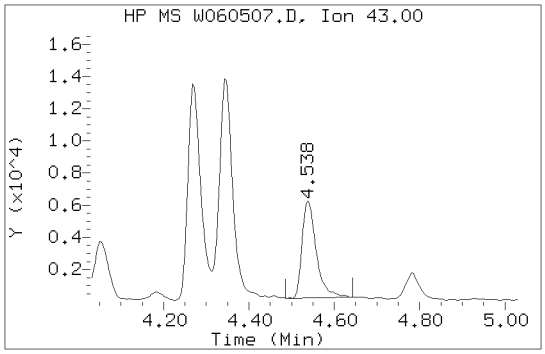
BEFORE

MASS
43
AREA
13954
HEIGHT
6020
21-Jun-2024
17:11
RUCHA
PATEL



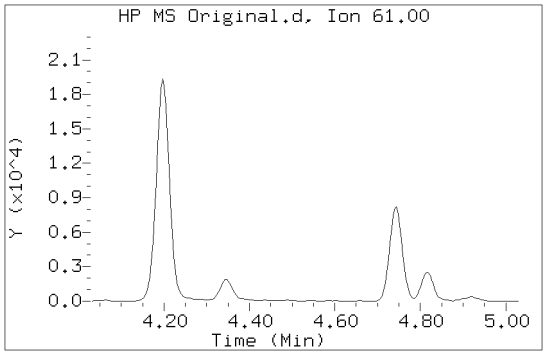
AFTER

MASS
43
AREA
13954
HEIGHT
6020
21-Jun-2024
17:11
RUCHA
PATEL



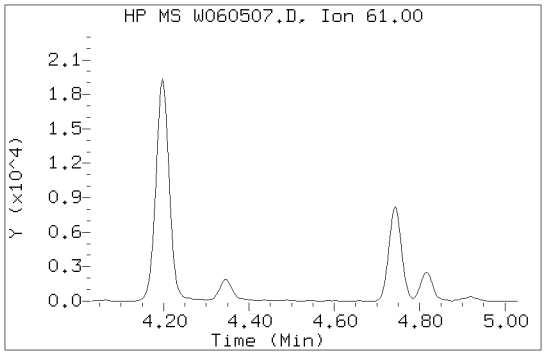
BEFORE

MASS
61
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



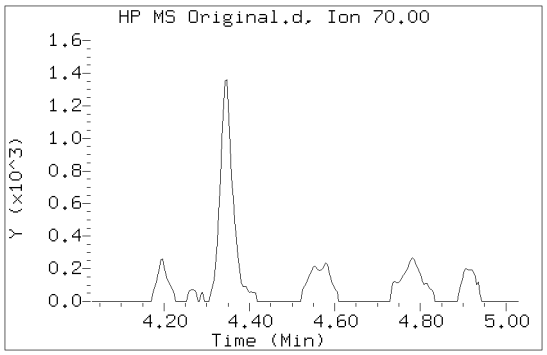
AFTER

MASS
61
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



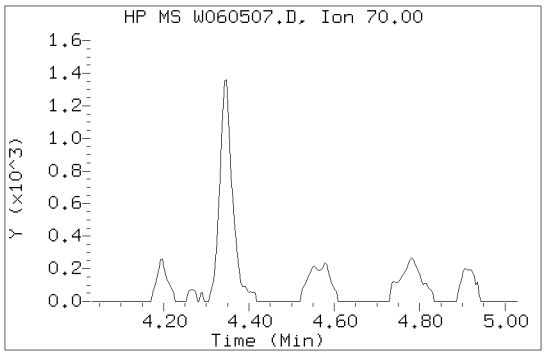
BEFORE

MASS
70
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
70
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



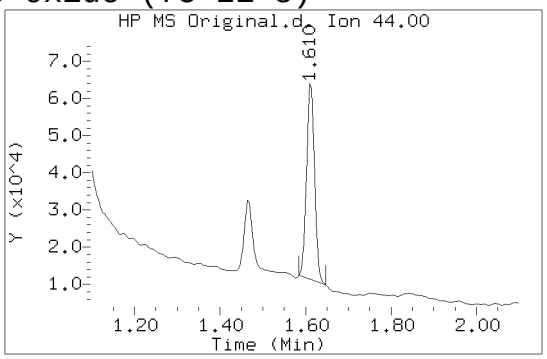
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Inj Date : 05-JUN-2024 20:46
InstruID : VOA9.i
LabSampID : VSTD020

Ethylene oxide (75-21-8)

Reason Code:

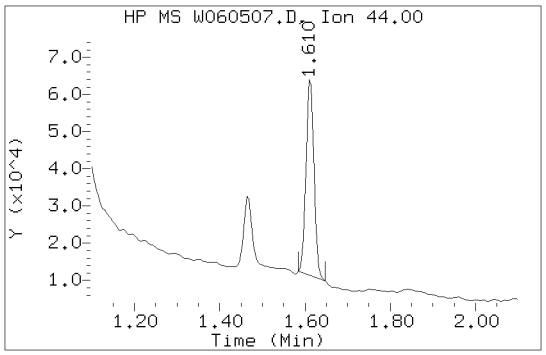
BEFORE

MASS
44
AREA
70538
HEIGHT
52621
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
44
AREA
70538
HEIGHT
52621
21-Jun-2024
17:11
RUCHA
PATEL

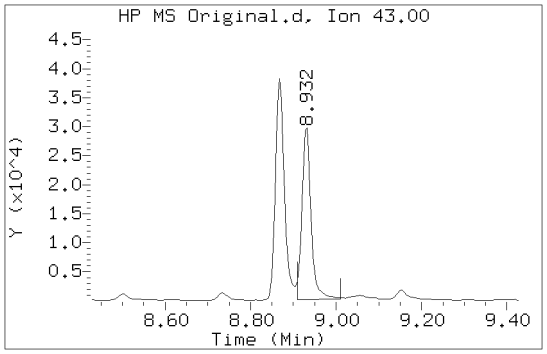


n-Amyl acetate (628-63-7)

Reason Code:

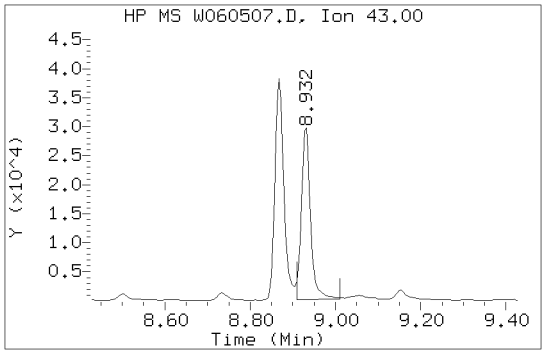
BEFORE

MASS
43
AREA
45186
HEIGHT
29581
21-Jun-2024
17:11
RUCHA
PATEL



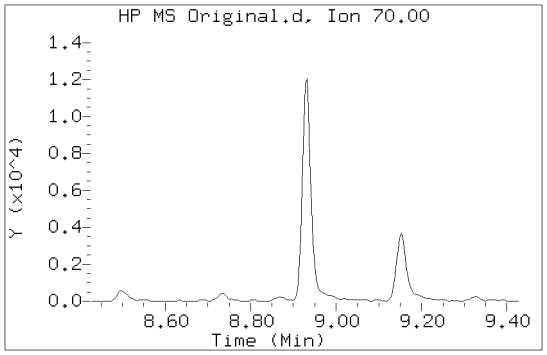
AFTER

MASS
43
AREA
45186
HEIGHT
29581
21-Jun-2024
17:11
RUCHA
PATEL



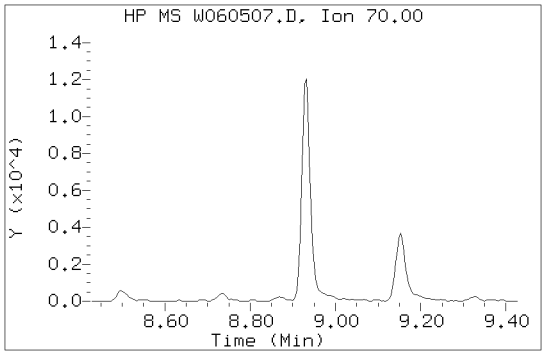
BEFORE

MASS
70
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



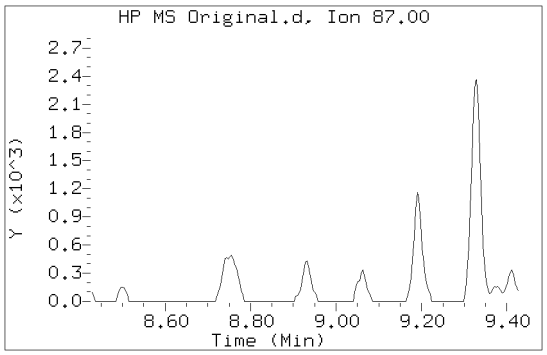
AFTER

MASS
70
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



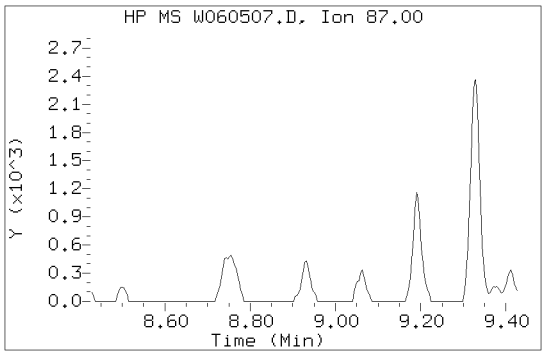
BEFORE

MASS
87
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
87
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



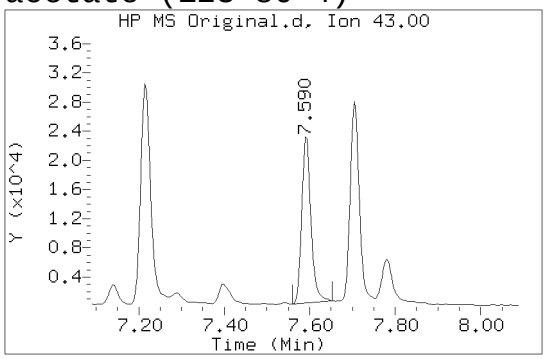
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060507.D
Inj Date : 05-JUN-2024 20:46
InstruID : VOA9.i
LabSampID : VSTD020

n-Butyl acetate (123-86-4)

Reason Code:

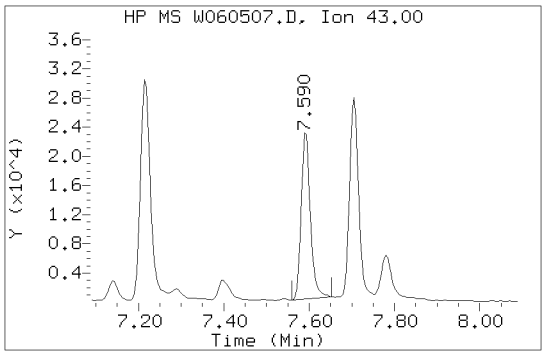
BEFORE

MASS
43
AREA
34863
HEIGHT
22760
21-Jun-2024
17:11
RUCHA
PATEL



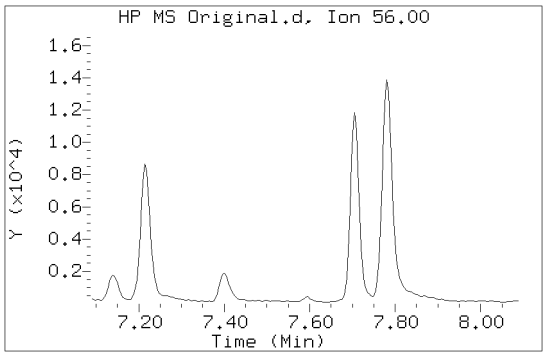
AFTER

MASS
43
AREA
34863
HEIGHT
22760
21-Jun-2024
17:11
RUCHA
PATEL



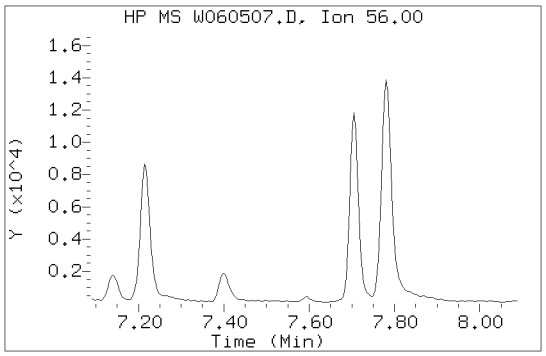
BEFORE

MASS
56
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



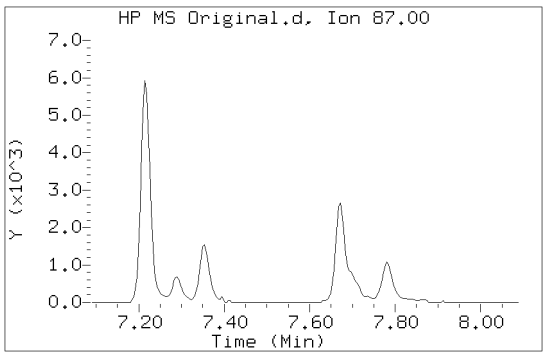
AFTER

MASS
56
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



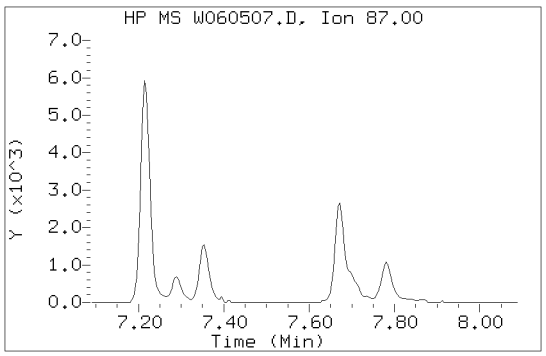
BEFORE

MASS
87
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
87
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

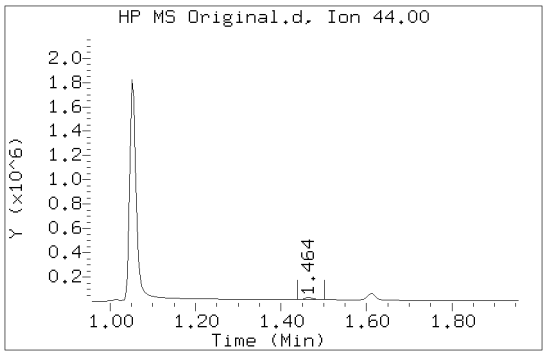


Acetaldehyde (75-07-0)

Reason Code:

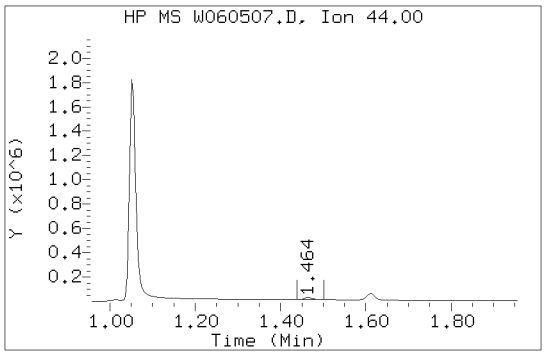
BEFORE

MASS
44
AREA
24633
HEIGHT
18756
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
44
AREA
24633
HEIGHT
18756
21-Jun-2024
17:11
RUCHA
PATEL



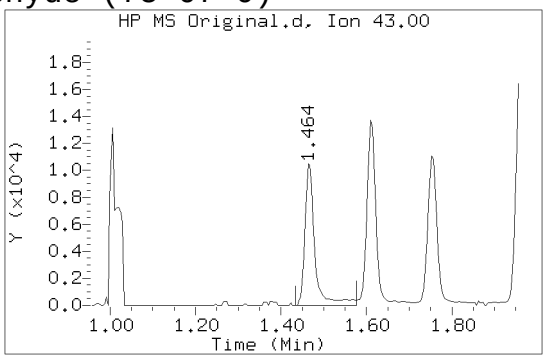
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Inj Date : 05-JUN-2024 20:46
InstruID : VOA9.i
LabSampID : VSTD020

Acetaldehyde (75-07-0)

Reason Code:

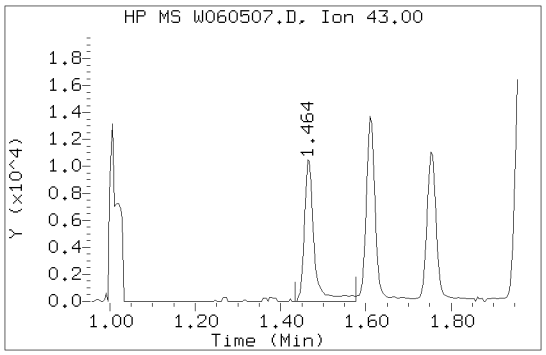
BEFORE

MASS
43
AREA
17437
HEIGHT
10514
21-Jun-2024
17:11
RUCHA
PATEL



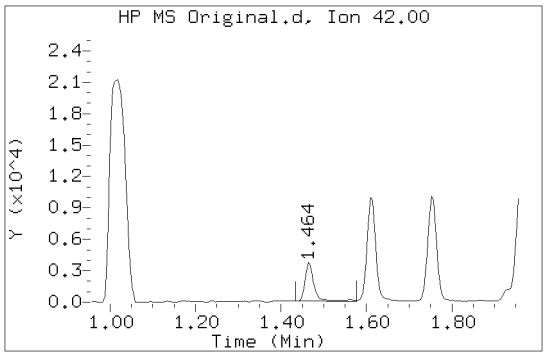
AFTER

MASS
43
AREA
17437
HEIGHT
10514
21-Jun-2024
17:11
RUCHA
PATEL



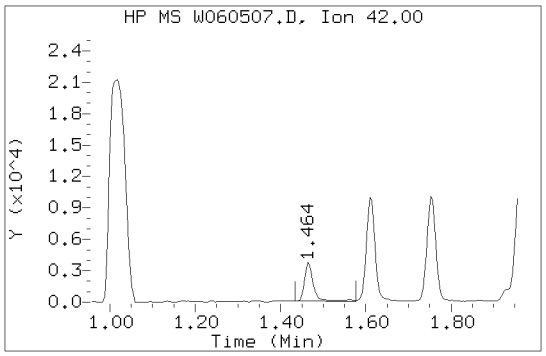
BEFORE

MASS
42
AREA
5563
HEIGHT
3680
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
42
AREA
5563
HEIGHT
3680
21-Jun-2024
17:11
RUCHA
PATEL

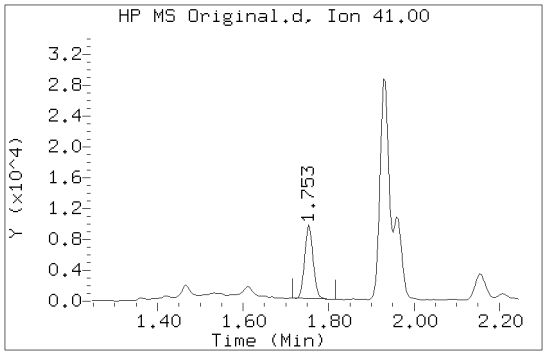


Isobutylene (115-11-7)

Reason Code:

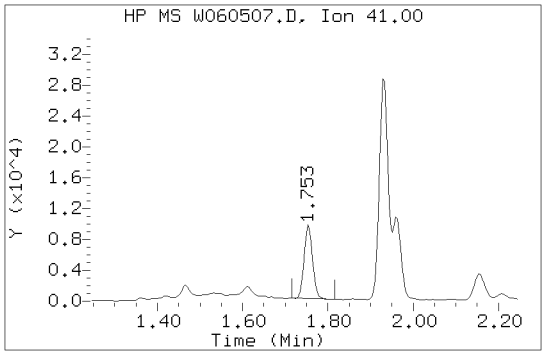
BEFORE

MASS
41
AREA
13367
HEIGHT
9527
21-Jun-2024
17:11
RUCHA
PATEL



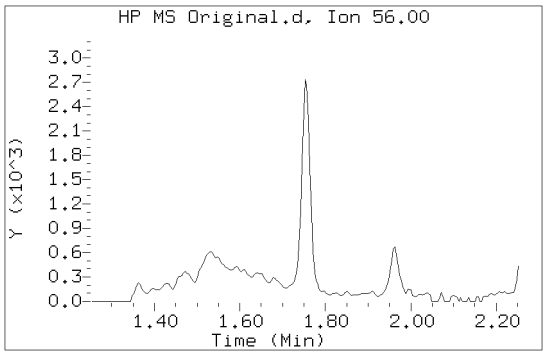
AFTER

MASS
41
AREA
13367
HEIGHT
9527
21-Jun-2024
17:11
RUCHA
PATEL



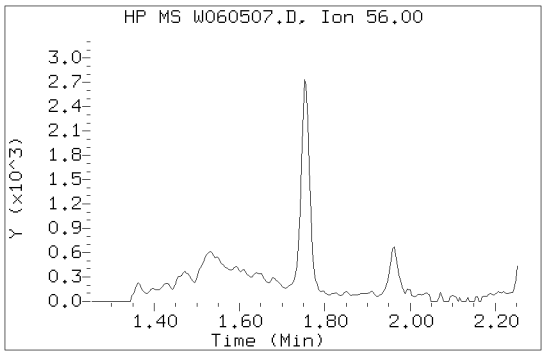
BEFORE

MASS
56
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
56
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

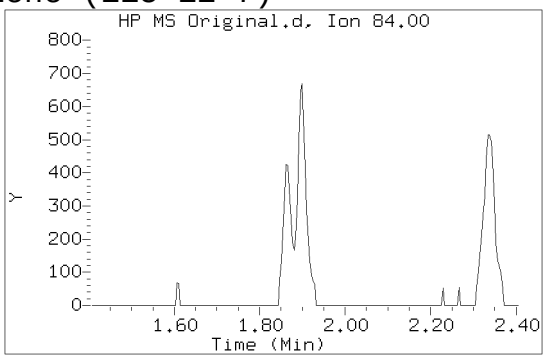


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Inj Date : 05-JUN-2024 20:46
InstruID : VOA9.i
LabSampID : VSTD020

Isobutylene (115-11-7)

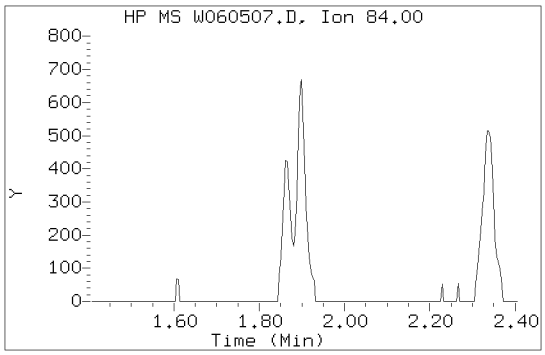
BEFORE

MASS
84
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
84
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

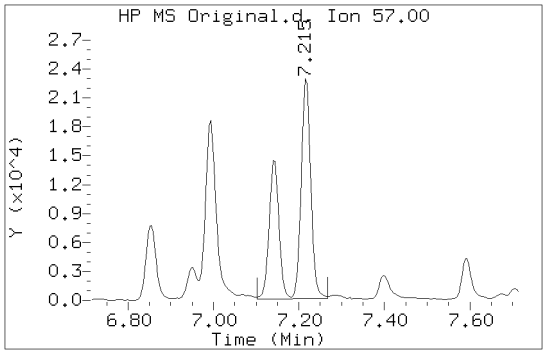


Reason Code:

sec-Butyl Ether (6863-58-7)

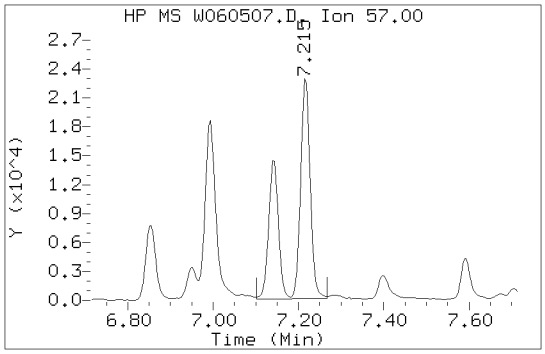
BEFORE

MASS
57
AREA
59356
HEIGHT
22830
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
57
AREA
59356
HEIGHT
22830
21-Jun-2024
17:11
RUCHA
PATEL



Reason Code:

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060508.D Page 1
Report Date: 21-Jun-2024 17:12

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060508.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 05-JUN-2024 21:07
Operator : TS Inst ID: VOA9.i
Smp Info : VSTD050;VSTD050;1;7
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240605.b\8260C.m
Meth Date : 21-Jun-2024 17:12 VOA9.i Quant Type: ISTD
Cal Date : 05-JUN-2024 20:46 Cal File: W060507.D
Als bottle: 10 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.815	4.815	(1.000)	216069	50.0000	
2	Dichlorodifluoromethane	85	1.164	1.164	(0.242)	33264	50.0000	49.59
3	Chloromethane	50	1.295	1.295	(0.269)	137470	50.0000	55.45
4	Propionitrile	54	4.335	4.335	(0.900)	106147	500.000	506.95
5	Vinyl Chloride	62	1.378	1.378	(0.286)	70607	50.0000	48.12
6	Bromomethane	94	1.610	1.610	(0.334)	32479	50.0000	48.87
7	Chloroethane	64	1.696	1.696	(0.352)	53556	50.0000	50.47
8	Trichlorofluoromethane	101	1.895	1.895	(0.394)	97764	50.0000	51.67
9	Acrolein	56	2.262	2.262	(0.470)	8034	100.000	114.23
10	Acetone	43	2.408	2.408	(0.500)	64098	100.000	111.98
11	1,1-Dichloroethene	96	2.330	2.330	(0.484)	59905	50.0000	48.34
12	Isobutyl Alcohol	43	5.284	5.284	(1.097)	228388	1000.00	993.85
13	Acetonitrile	39	2.671	2.671	(0.555)	88484	500.000	495.18
14	Allyl Chloride	41	2.671	2.671	(0.555)	201356	50.0000	49.69
15	Iodomethane	142	2.465	2.465	(0.512)	29057	100.000	101.38
16	Acrylonitrile	53	3.064	3.064	(0.636)	55197	100.000	101.80
17	Methylene Chloride	84	2.791	2.791	(0.580)	76359	50.0000	51.23
18	Methyl tert-butyl ether	73	3.079	3.079	(0.640)	184999	50.0000	50.27
19	Carbon Disulfide	76	2.517	2.517	(0.523)	339010	100.000	95.45
20	trans-1,2-Dichloroethene	96	3.053	3.053	(0.634)	66993	50.0000	50.49

21 Vinyl Acetate	43	4.339	4.339 (0.901)	86076	100.000	101.94
22 1,1-Dichloroethane	63	3.511	3.511 (0.729)	132515	50.0000	51.04

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060508.D Page 2
Report Date: 21-Jun-2024 17:12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	3.604	3.604	(0.749)	106274	50.0000	48.24
	24 2-Butanone	43	4.264	4.264	(0.886)	82452	100.000	103.53
	25 Methacrylonitrile	41	4.493	4.493	(0.933)	45303	50.0000	47.47(aM)
	26 2,2-Dichloropropane	77	4.182	4.182	(0.868)	89261	50.0000	48.54
	27 cis-1,2-Dichloroethene	96	4.193	4.193	(0.871)	80088	50.0000	50.22
	28 Chloroform	83	4.571	4.571	(0.949)	132876	50.0000	46.66
	29 Bromochloromethane	128	4.466	4.466	(0.928)	40291	50.0000	51.85
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	72926	50.0000	46.82
	31 1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	104403	50.0000	51.06
	32 1,1-Dichloropropene	75	4.920	4.920	(0.887)	96986	50.0000	48.45
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	111560	50.0000	52.12
	34 Carbon Tetrachloride	117	4.909	4.909	(0.885)	84585	50.0000	51.21
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	91744	50.0000	48.31
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	309899	50.0000	
	37 Benzene	78	5.138	5.138	(0.926)	297605	50.0000	50.67
	38 Trichloroethene	130	5.786	5.786	(1.043)	76169	50.0000	49.35
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	90810	50.0000	49.38
	40 Methyl Methacrylate	41	5.824	5.824	(1.209)	31423	50.0000	47.73
	41 2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	33395	100.000	88.87
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	83760	50.0000	50.98
	43 2-Nitropropane	43	6.506	6.506	(1.351)	16343	50.0000	52.49(M)
	44 Dibromomethane	93	6.116	6.116	(1.102)	48965	50.0000	51.72
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	166404	100.000	97.05
	46 cis-1,3-Dichloropropene	75	6.689	6.689	(1.205)	112080	50.0000	46.85
*	47 Chlorobenzene-d5	117	8.181	8.181	(1.000)	282267	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.846)	265972	50.0000	46.92
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	99022	50.0000	49.38
	50 Toluene	91	6.978	6.978	(0.853)	310355	50.0000	49.25
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	93193	50.0000	46.84
	52 2-Hexanone	43	7.214	7.214	(0.882)	117753	100.000	100.02
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	61653	50.0000	51.49
	54 1,3-Dichloropropane	76	7.495	7.495	(0.916)	132384	50.0000	51.34
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	72142	50.0000	48.43
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	60708	50.0000	49.56
	57 1,2-Dibromoethane	107	7.780	7.780	(0.951)	72541	50.0000	51.26
	58 1-Chlorohexane	55	8.193	8.193	(1.476)	61251	50.0000	46.87
	59 Chlorobenzene	112	8.208	8.208	(1.003)	201213	50.0000	51.23
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	70291	50.0000	51.53
	61 Ethylbenzene	106	8.305	8.305	(1.015)	102396	50.0000	50.88
	62 m,p-Xylenes	106	8.406	8.406	(1.027)	261535	100.000	104.58
	63 o-Xylene	106	8.744	8.744	(1.069)	127785	50.0000	52.79
	64 Styrene	104	8.759	8.759	(1.071)	210363	50.0000	53.74
	66 Bromoform	173	8.916	8.916	(1.090)	43376	50.0000	45.74
	67 Isopropylbenzene	105	9.059	9.059	(1.107)	319726	50.0000	55.61
	68 1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	105142	50.0000	51.81
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	100094	50.0000	48.80
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	152824	50.0000	
	71 1,2,3-Trichloropropane	75	9.359	9.359	(0.920)	102444	50.0000	49.20
	72 trans-1,4-Dichloro-2-butene	53	9.374	9.374	(1.146)	21076	50.0000	48.09
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	375572	50.0000	54.06
	74 Bromobenzene	156	9.314	9.314	(0.916)	88012	50.0000	50.74
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	256523	50.0000	56.07

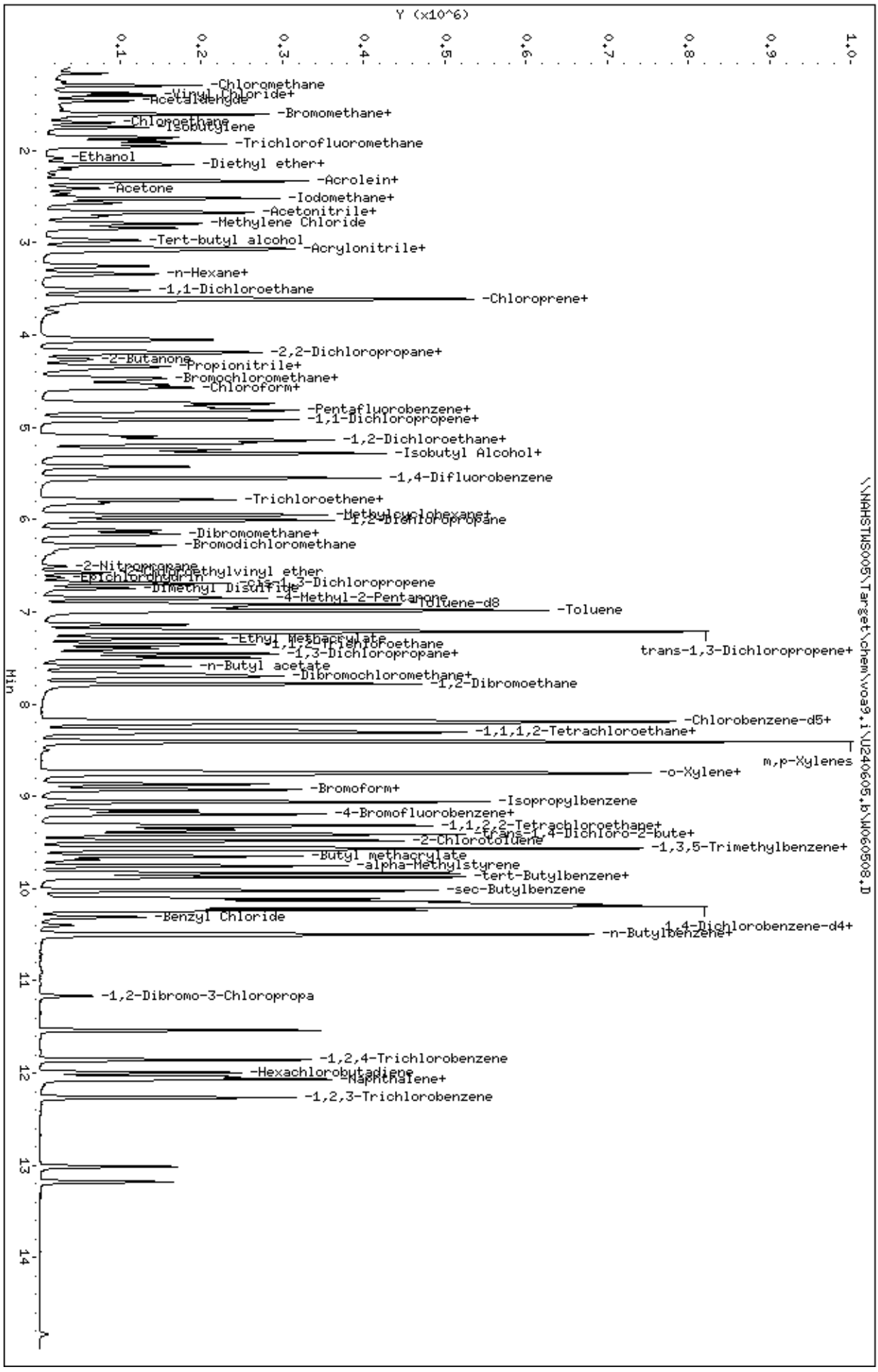
76	2-Chlorotoluene	91	9.478	9.478 (0.932)	225881	50.0000	50.14
77	4-Chlorotoluene	91	9.572	9.572 (0.941)	262494	50.0000	50.59

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	224789	50.0000	53.77
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	256377	50.0000	54.18
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	307852	50.0000	55.70
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	264990	50.0000	56.44
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	155724	50.0000	48.44
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	162529	50.0000	51.04
86	Benzyl Chloride	91	10.311	10.311	(1.260)	83027	50.0000	46.38
87	n-Butylbenzene	91	10.491	10.491	(1.032)	230022	50.0000	48.93
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	154054	50.0000	51.09
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	11983	50.0000	48.08
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	98804	50.0000	48.85
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	43986	50.0000	50.28
92	Naphthalene	128	12.065	12.065	(1.187)	238716	50.0000	49.57
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	92268	50.0000	52.39
146	Methyl acetate	43	2.712	2.712	(0.563)	81985	50.0000	52.63
138	Freon TF	101	2.333	2.333	(0.485)	55524	50.0000	52.32
141	Cyclohexane	56	4.781	4.781	(0.993)	96337	50.0000	49.73
142	Tetrahydrofuran	42	4.541	4.541	(0.943)	28656	100.000	102.88
147	Methylcyclohexane	55	5.943	5.943	(1.071)	174760	50.0000	49.02
135	1,4-Dioxane	88	6.165	6.165	(1.280)	16646	1000.00	1009.38
132	n-Butanol	56	5.824	5.824	(1.209)	42203	1000.00	911.61
136	n-Hexane	57	3.338	3.338	(0.693)	68438	50.0000	50.27
139	Diethyl ether	59	2.142	2.142	(0.445)	54574	50.0000	51.11
148	Tert-butyl alcohol	59	2.971	2.971	(0.617)	131660	1000.00	993.73
149	Isopropyl alcohol	45	2.566	2.566	(0.533)	107191	1000.00	1006.95
156	Diisopropyl ether	45	3.619	3.619	(0.752)	241287	50.0000	49.45
162	Butyl acrylate	55	8.732	8.732	(1.067)	131432	50.0000	47.16
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	352309	50.0000	48.51
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	240306	50.0000	50.00
167	Ethanol	45	2.082	2.082	(0.433)	19912	1000.00	1040.76
172	tert-Butyl formate	59	5.242	5.242	(1.089)	129054	100.000	100.43
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	434678	1000.00	917.10
140	1,3-Butadiene	54	1.404	1.404	(0.292)	35678	50.0000	49.63
182	Epichlorohydrin	57	6.629	6.629	(1.195)	17061	200.000	200.55
M 94	1,2-Dichloroethylene (total)	96				147081	100.000	(a)
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	101361	50.0000	54.47
130	Ethyl Acetate	43	4.534	4.534	(0.942)	32501	50.0000	56.30(M)
131	Methyl Acrylate	55	4.369	4.369	(0.907)	86917	50.0000	49.51
189	n-Butyl acetate	43	7.589	7.589	(0.928)	103100	50.0000	48.83(M)
134	Cyclohexanone	55	9.149	9.149	(0.900)	74333	1000.00	1120.82
185	Isoprene	39	2.154	2.154	(0.447)	17797	50.0000	49.16
188	Isopropyl acetate	43	5.284	5.284	(0.952)	228388	50.0000	51.53
150	Allyl alcohol	57	3.338	3.338	(0.693)	68438	1000.00	1005.48
194	Acetaldehyde	44	1.460	1.460	(0.303)	66813	200.000	206.63(M)
200	Dimethyl Disulfide	94	6.746	6.746	(0.825)	43586	50.0000	51.09
202	Isobutylene	41	1.749	1.749	(0.363)	34938	50.0000	49.44(M)
133	Ethyl Acrylate	55	5.943	5.943	(1.234)	174760	50.0000	47.87
163	Butyl methacrylate	41	9.647	9.647	(0.949)	83010	50.0000	52.52
159	Propylene oxide	43	2.199	2.199	(0.457)	11988	100.000	98.90
178	Ethylene oxide	44	1.602	1.602	(0.333)	290775	100.000	104.82
203	2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	84092	50.0000	51.14
204	Tetrahydrothiophene	60	7.672	7.672	(0.938)	69345	50.0000	51.82(A)

205 sec-Butyl Ether	57	7.214	7.214 (0.882)	150247	50.0000	43.46(AM)
187 n-Amyl acetate	43	8.927	8.927 (1.091)	130372	50.0000	49.60(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.



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Instrument: VOA9.i
Operator: TS
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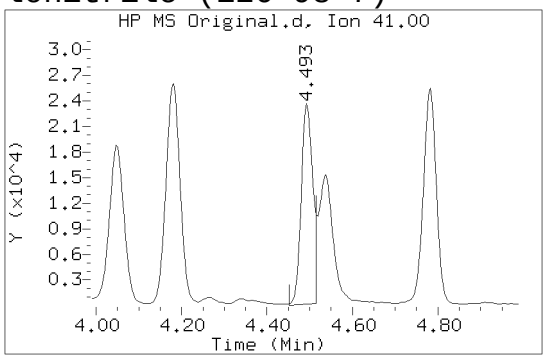
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LabSampID : VSTD050

Methacrylonitrile (126-98-7)

Reason Code:

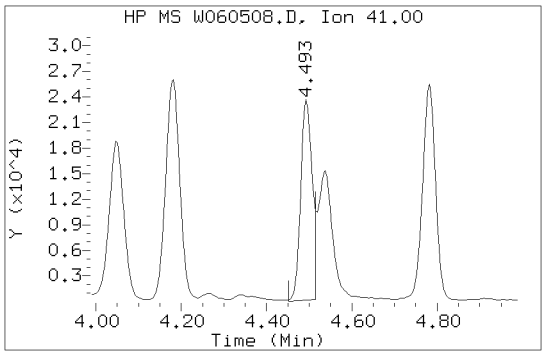
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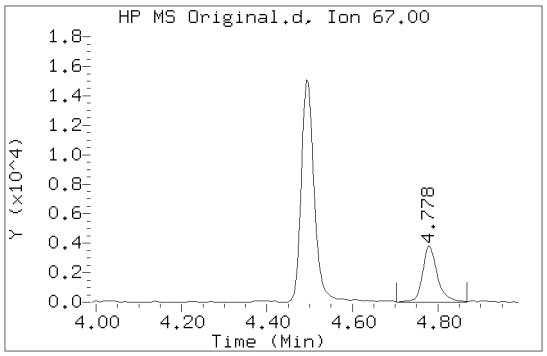
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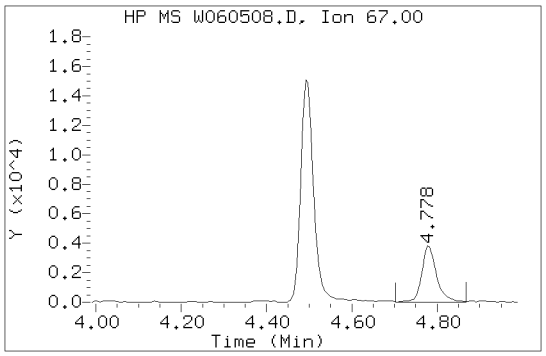
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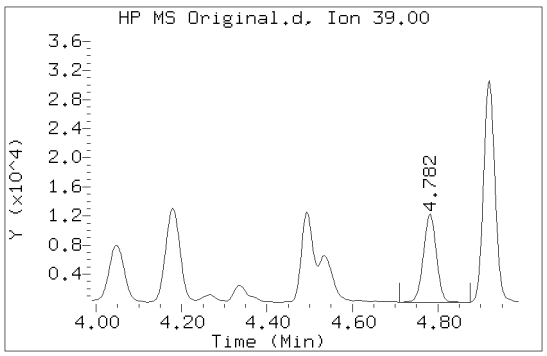
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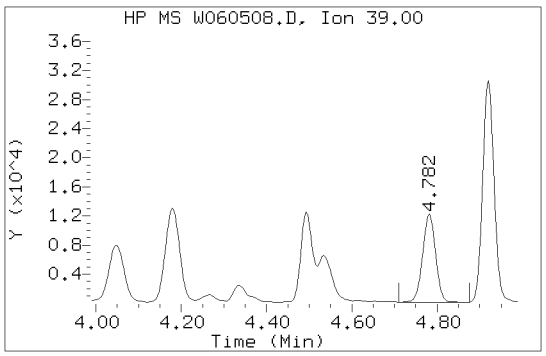
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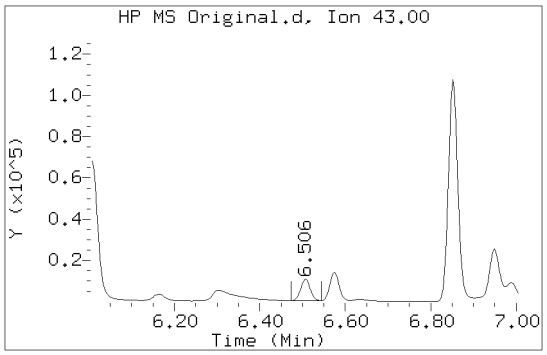


2-Nitropropane (79-46-9)

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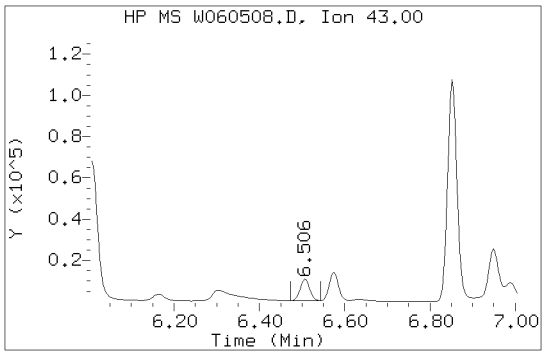
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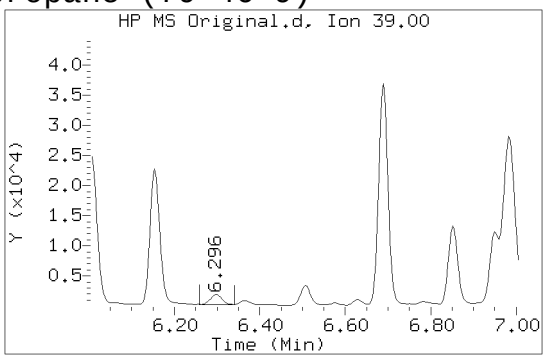
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LabSampID : VSTD050

2-Nitropropane (79-46-9)

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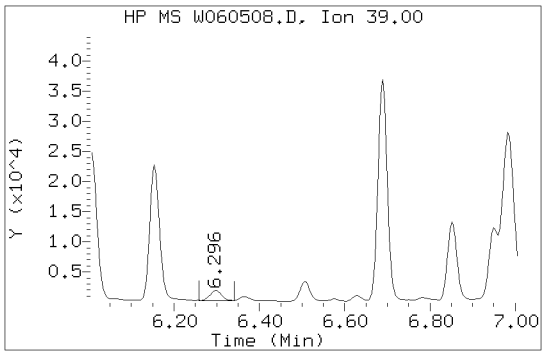
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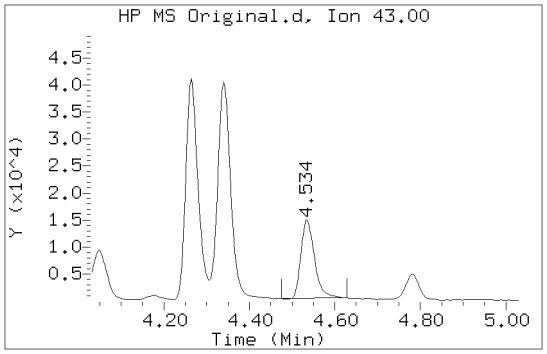


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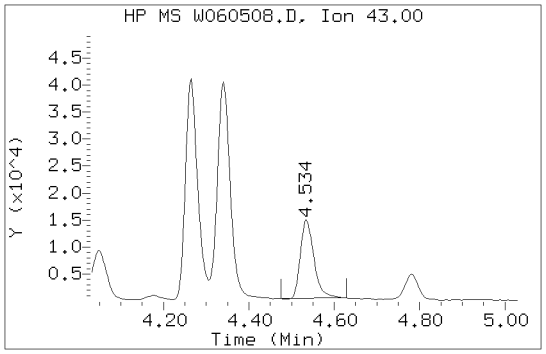
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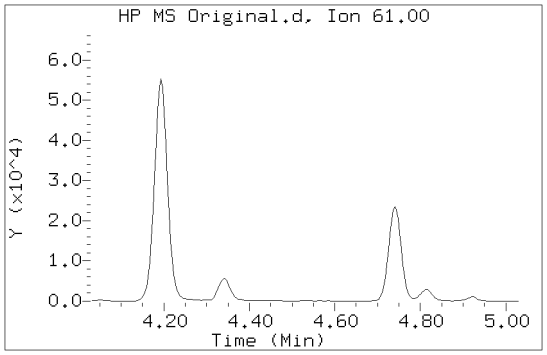
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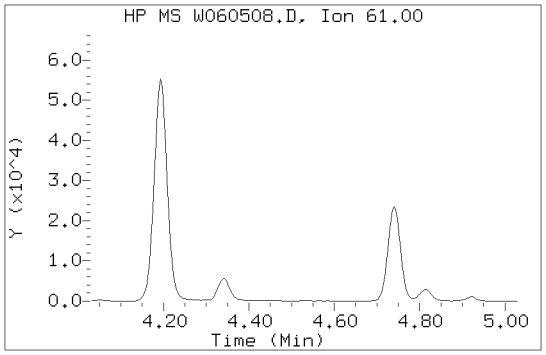
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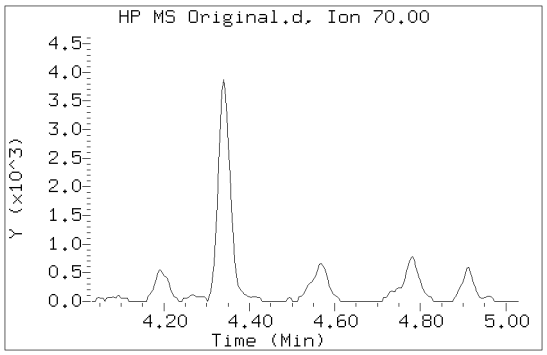
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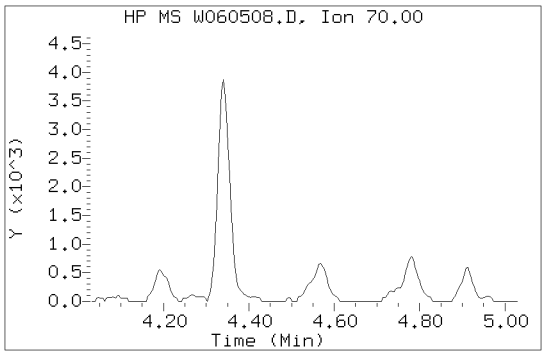
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AFTER

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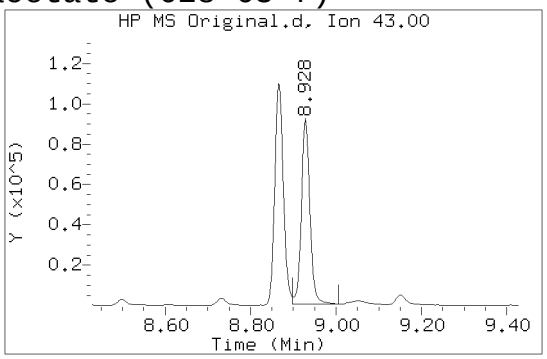
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Inj Date : 05-JUN-2024 21:07
InstruID : VOA9.i
LabSampID : VSTD050

n-Amyl acetate (628-63-7)

Reason Code:

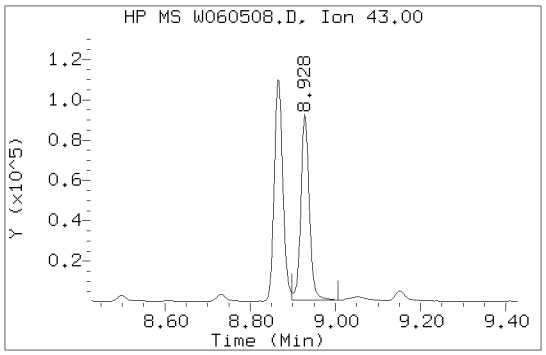
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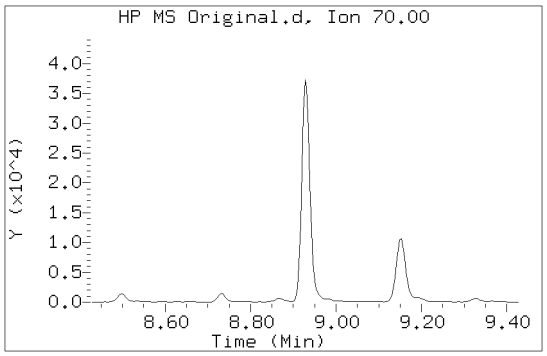
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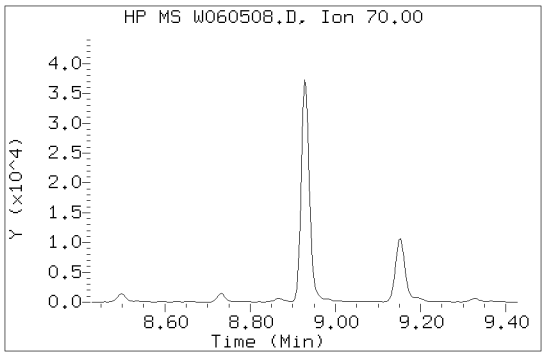
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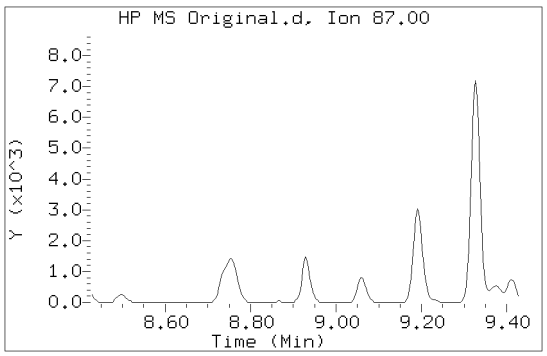
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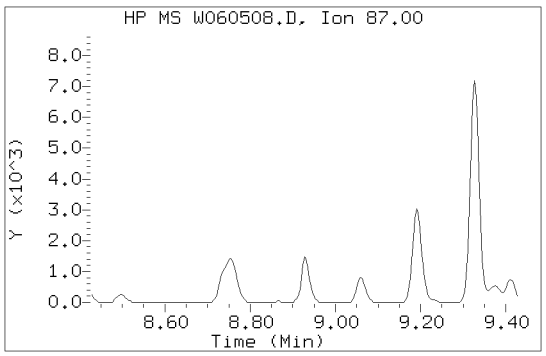
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AFTER

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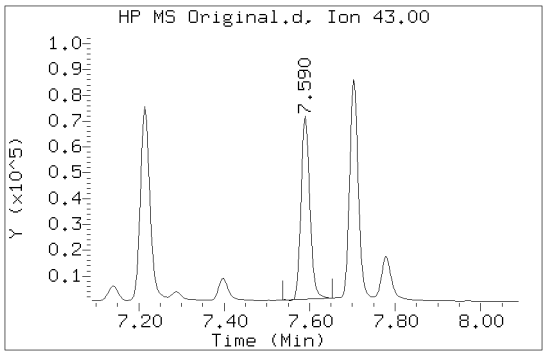


n-Butyl acetate (123-86-4)

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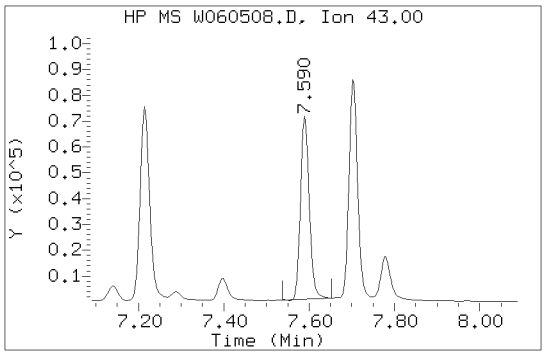
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AFTER

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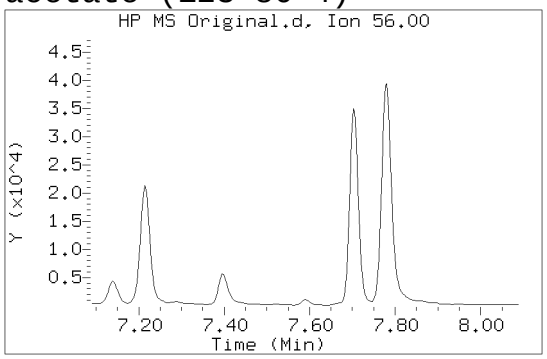
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InstruID : VOA9.i
LabSampID : VSTD050

n-Butyl acetate (123-86-4)

Reason Code:

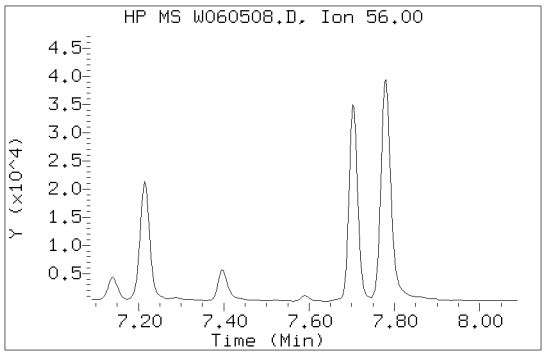
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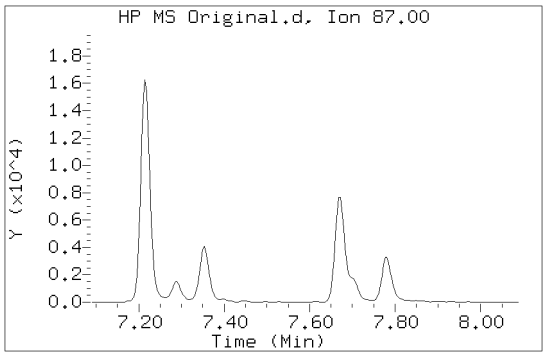
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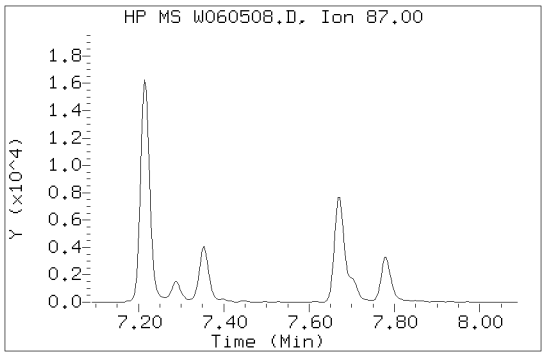
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AFTER

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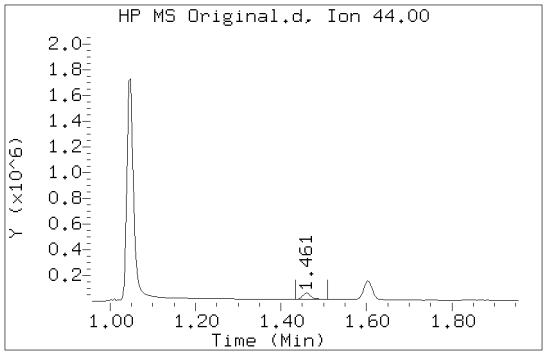


Acetaldehyde (75-07-0)

Reason Code:

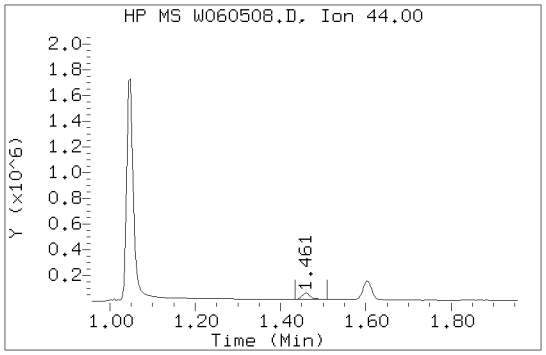
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17:11
RUCHA
PATEL



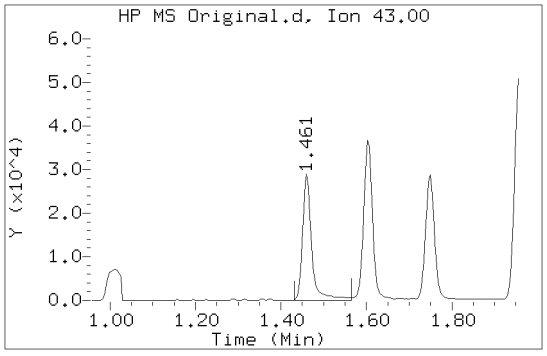
AFTER

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21-Jun-2024
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PATEL



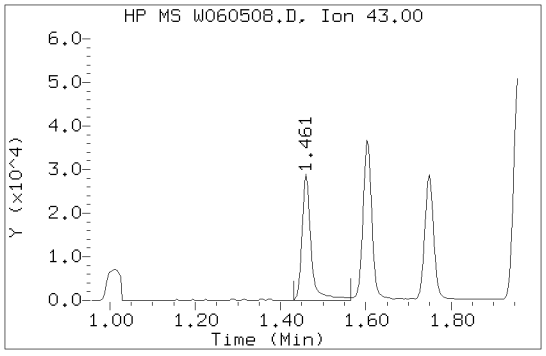
BEFORE

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21-Jun-2024
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AFTER

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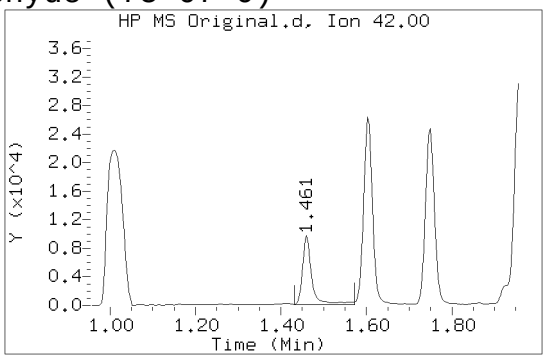
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Inj Date : 05-JUN-2024 21:07
InstruID : VOA9.i
LabSampID : VSTD050

Acetaldehyde (75-07-0)

Reason Code:

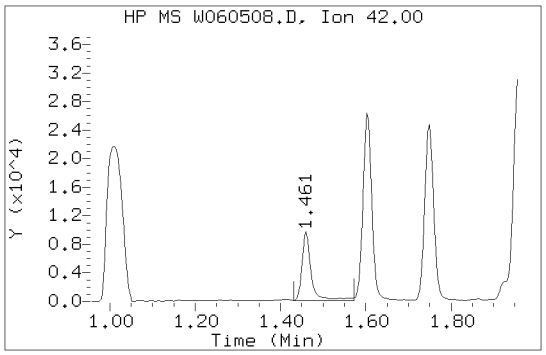
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AFTER

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21-Jun-2024
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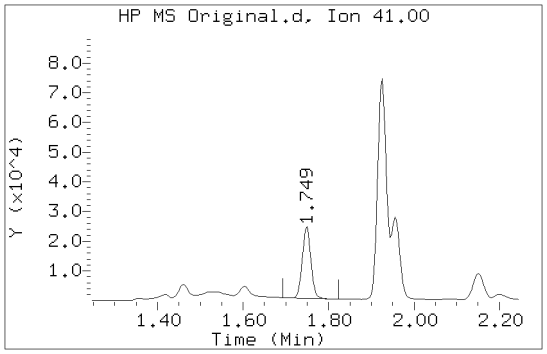


Isobutylene (115-11-7)

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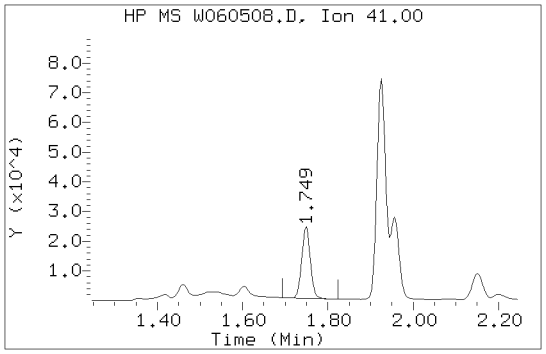
BEFORE

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HEIGHT
24145
21-Jun-2024
17:11
RUCHA
PATEL



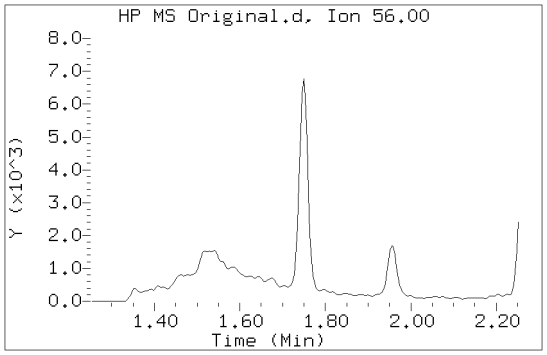
AFTER

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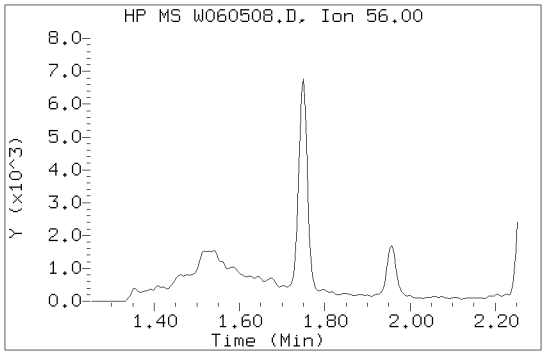
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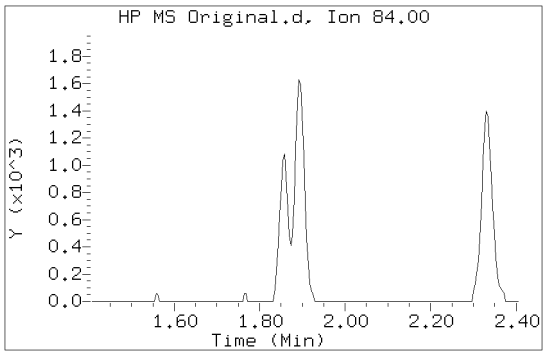
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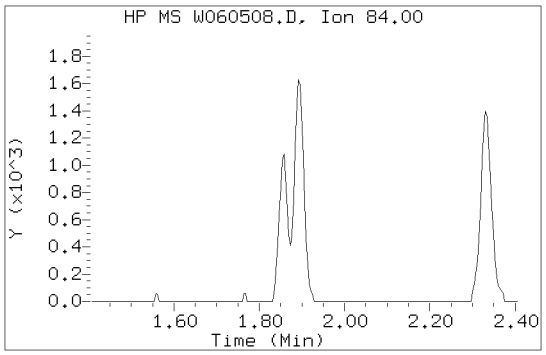
BEFORE

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21-Jun-2024
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AFTER

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PATEL



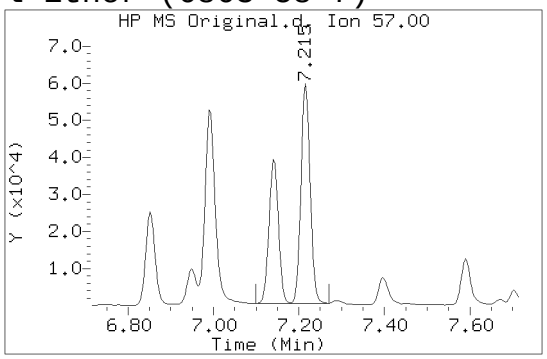
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Inj Date : 05-JUN-2024 21:07
InstruID : VOA9.i
LabSampID : VSTD050

sec-Butyl Ether (6863-58-7)

Reason Code:

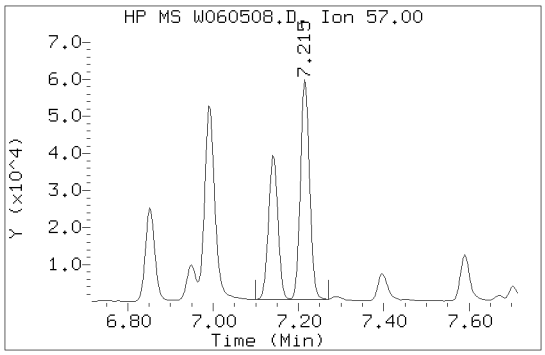
BEFORE

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21-Jun-2024
17:11
RUCHA
PATEL



AFTER

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HEIGHT
59255
21-Jun-2024
17:11
RUCHA
PATEL



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060509.D Page 1
Report Date: 21-Jun-2024 17:12

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060509.D
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Inj Date : 05-JUN-2024 21:29
Operator : TS Inst ID: VOA9.i
Smp Info : VSTD100;VSTD100;1;8
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240605.b\8260C.m
Meth Date : 21-Jun-2024 17:12 VOA9.i Quant Type: ISTD
Cal Date : 05-JUN-2024 21:07 Cal File: W060508.D
Als bottle: 11 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.811	4.811	(1.000)	225031	50.0000	
2	Dichlorodifluoromethane	85	1.156	1.156	(0.240)	66430	100.000	94.36
3	Chloromethane	50	1.288	1.288	(0.268)	266239	100.000	106.20
4	Propionitrile	54	4.332	4.332	(0.900)	209211	1000.00	958.09
5	Vinyl Chloride	62	1.370	1.370	(0.285)	144478	100.000	94.54
6	Bromomethane	94	1.602	1.602	(0.333)	66230	100.000	96.23
7	Chloroethane	64	1.689	1.689	(0.351)	107274	100.000	97.24
8	Trichlorofluoromethane	101	1.887	1.887	(0.392)	195200	100.000	99.06
9	Acrolein	56	2.259	2.259	(0.469)	15155	200.000	201.80
10	Acetone	43	2.401	2.401	(0.499)	112184	200.000	191.10
11	1,1-Dichloroethene	96	2.322	2.322	(0.483)	121301	100.000	93.98
12	Isobutyl Alcohol	43	5.280	5.280	(1.097)	469087	2000.00	1959.98
13	Acetonitrile	39	2.663	2.663	(0.554)	179078	1000.00	960.59
14	Allyl Chloride	41	2.663	2.663	(0.554)	407504	100.000	96.50
15	Iodomethane	142	2.457	2.457	(0.511)	88741	200.000	199.88
16	Acrylonitrile	53	3.061	3.061	(0.636)	110053	200.000	196.24
17	Methylene Chloride	84	2.787	2.787	(0.579)	153032	100.000	99.87
18	Methyl tert-butyl ether	73	3.076	3.076	(0.639)	370094	100.000	96.61
19	Carbon Disulfide	76	2.510	2.510	(0.522)	705942	200.000	190.84
20	trans-1,2-Dichloroethene	96	3.049	3.049	(0.634)	135099	100.000	97.70

21 Vinyl Acetate	43	4.335	4.335 (0.901)	178473	200.000	202.50
22 1,1-Dichloroethane	63	3.507	3.507 (0.729)	267743	100.000	99.32

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
23	Chloroprene	53	3.601	3.601	(0.748)	224261	100.000	97.75
24	2-Butanone	43	4.260	4.260	(0.885)	162105	200.000	196.12
25	Methacrylonitrile	41	4.489	4.489	(0.933)	97174	100.000	96.22(aM)
26	2,2-Dichloropropane	77	4.178	4.178	(0.868)	190715	100.000	99.60
27	cis-1,2-Dichloroethene	96	4.189	4.189	(0.871)	163681	100.000	98.40
28	Chloroform	83	4.568	4.568	(0.949)	271520	100.000	91.54
29	Bromochloromethane	128	4.463	4.463	(0.928)	81350	100.000	101.02
$ 30	Dibromofluoromethane	113	4.744	4.744	(0.986)	148274	100.000	91.41
31	1,1,1-Trichloroethane	97	4.736	4.736	(0.984)	213702	100.000	100.35
32	1,1-Dichloropropene	75	4.916	4.916	(0.886)	199957	100.000	95.96
33	1,2-Dichloroethane	62	5.171	5.171	(0.932)	223618	100.000	100.97
34	Carbon Tetrachloride	117	4.905	4.905	(0.884)	178678	100.000	103.91
$ 35	1,2-Dichloroethane-d4	65	5.093	5.093	(1.058)	182224	100.000	92.14
* 36	1,4-Difluorobenzene	114	5.550	5.550	(1.000)	322621	50.0000	
37	Benzene	78	5.134	5.134	(0.925)	606369	100.000	99.06
38	Trichloroethene	130	5.782	5.782	(1.042)	153227	100.000	95.36
39	Bromodichloromethane	83	6.273	6.273	(1.130)	195395	100.000	102.07
40	Methyl Methacrylate	41	5.820	5.820	(1.210)	66130	100.000	94.12
41	2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	88149	200.000	200.56
42	1,2-Dichloropropane	63	6.007	6.007	(1.082)	171059	100.000	100.08
43	2-Nitropropane	43	6.506	6.506	(1.352)	37820	100.000	116.63(M)
44	Dibromomethane	93	6.116	6.116	(1.102)	99903	100.000	101.54
45	4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	363354	200.000	197.84
46	cis-1,3-Dichloropropene	75	6.686	6.686	(1.205)	250907	100.000	97.92
* 47	Chlorobenzene-d5	117	8.181	8.181	(1.000)	298132	50.0000	
$ 48	Toluene-d8	98	6.918	6.918	(0.846)	544015	100.000	90.86
49	Ethyl Methacrylate	69	7.289	7.289	(1.313)	210327	100.000	100.76
50	Toluene	91	6.978	6.978	(0.853)	631065	100.000	94.81
51	trans-1,3-Dichloropropene	75	7.192	7.192	(1.296)	208066	100.000	97.47
52	2-Hexanone	43	7.214	7.214	(0.882)	231901	200.000	187.74
53	1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	125721	100.000	99.61
54	1,3-Dichloropropane	76	7.495	7.495	(0.916)	273313	100.000	100.40
55	Dibromochloromethane	129	7.690	7.690	(0.940)	157625	100.000	98.17
56	Tetrachloroethene	164	7.454	7.454	(0.911)	121906	100.000	94.23
57	1,2-Dibromoethane	107	7.780	7.780	(0.951)	148566	100.000	98.86
58	1-Chlorohexane	55	8.193	8.193	(1.476)	126267	100.000	92.96
59	Chlorobenzene	112	8.208	8.208	(1.003)	410301	100.000	99.03
60	1,1,1,2-Tetrachloroethane	131	8.279	8.279	(1.012)	149143	100.000	103.52
61	Ethylbenzene	106	8.305	8.305	(1.015)	210204	100.000	98.89
62	m,p-Xylenes	106	8.406	8.406	(1.027)	534206	200.000	202.25
63	o-Xylene	106	8.744	8.744	(1.069)	261877	100.000	102.43
64	Styrene	104	8.759	8.759	(1.071)	440672	100.000	106.58
66	Bromoform	173	8.916	8.916	(1.090)	98710	100.000	94.50
67	Isopropylbenzene	105	9.059	9.059	(1.107)	643259	100.000	105.94
68	1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	214761	100.000	100.86
$ 69	4-Bromofluorobenzene	95	9.190	9.190	(1.123)	202850	100.000	93.64
* 70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	160756	50.0000	
71	1,2,3-Trichloropropane	75	9.359	9.359	(0.920)	217627	100.000	98.07
72	trans-1,4-Dichloro-2-butene	53	9.374	9.374	(1.146)	46658	100.000	100.05
73	n-Propylbenzene	91	9.411	9.411	(0.926)	759885	100.000	103.98
74	Bromobenzene	156	9.314	9.314	(0.916)	180396	100.000	98.59
75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	525689	100.000	109.24

76	2-Chlorotoluene	91	9.478	9.478 (0.932)	458162	100.000	96.68
77	4-Chlorotoluene	91	9.572	9.572 (0.941)	536870	100.000	98.37

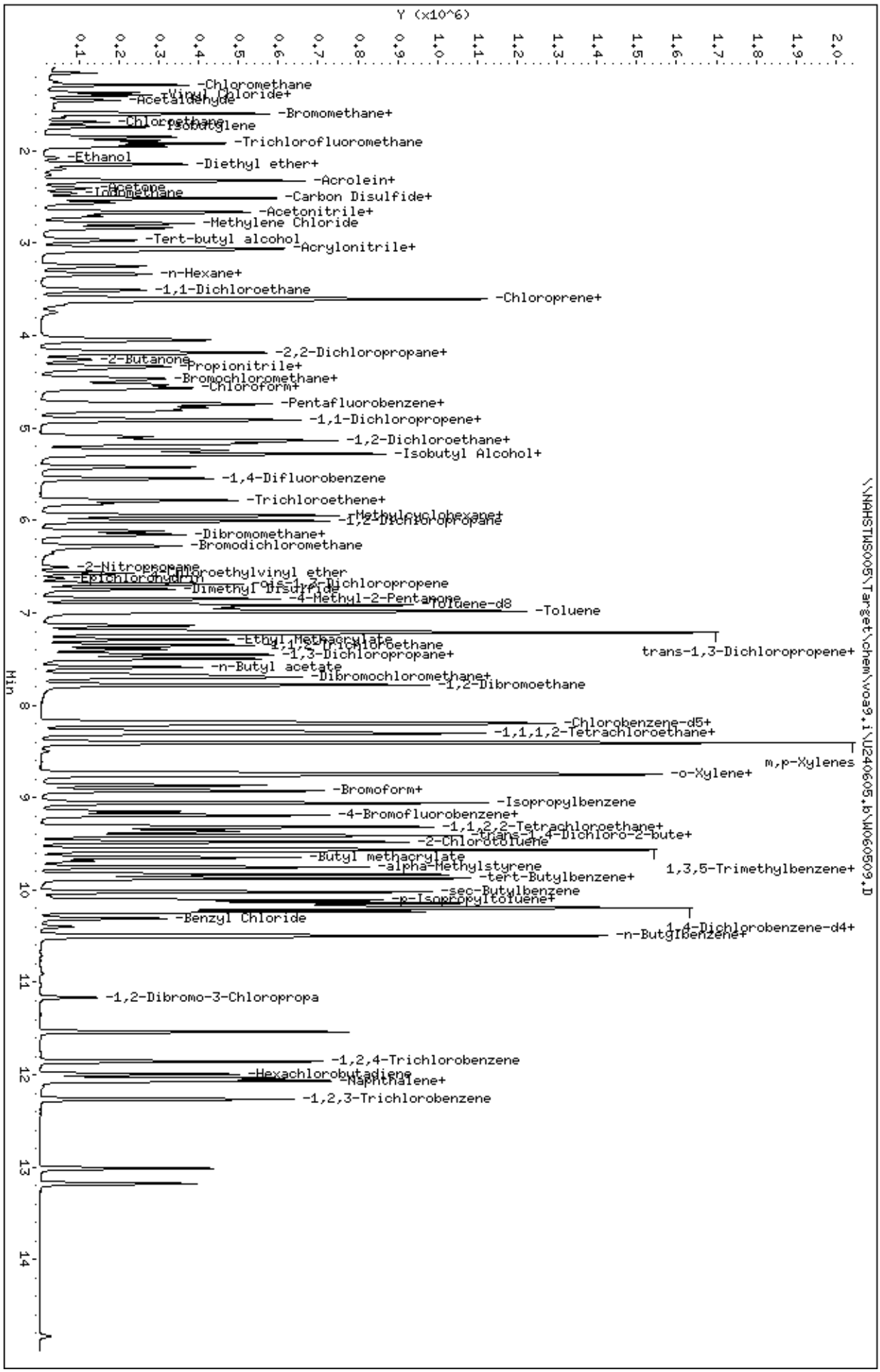
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Report Date: 21-Jun-2024 17:12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	455488	100.000	103.58
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	532911	100.000	107.07
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	622189	100.000	107.02
82	p-Isopropyltoluene	119	10.142	10.142	(0.997)	545184	100.000	110.40
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	317253	100.000	93.82
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	331801	100.000	99.20
86	Benzyl Chloride	91	10.307	10.307	(1.260)	204159	100.000	100.45
87	n-Butylbenzene	91	10.491	10.491	(1.032)	480120	100.000	95.41
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	315605	100.000	99.52
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	27833	100.000	99.74
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	207612	100.000	95.84
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	89949	100.000	97.75
92	Naphthalene	128	12.065	12.065	(1.187)	504584	100.000	97.70
93	1,2,3-Trichlorobenzene	180	12.267	12.267	(1.206)	187478	100.000	101.20
146	Methyl acetate	43	2.708	2.708	(0.563)	163229	100.000	102.01
138	Freon TF	101	2.326	2.326	(0.483)	113027	100.000	102.26
141	Cyclohexane	56	4.778	4.778	(0.993)	190312	100.000	94.10
142	Tetrahydrofuran	42	4.538	4.538	(0.943)	55300	200.000	191.44
147	Methylcyclohexane	55	5.943	5.943	(1.071)	374351	100.000	100.86(A)
135	1,4-Dioxane	88	6.165	6.165	(1.281)	31952	2000.00	1859.68
132	n-Butanol	56	5.820	5.820	(1.210)	92092	2000.00	1848.96
136	n-Hexane	57	3.334	3.334	(0.693)	135314	100.000	94.86
139	Diethyl ether	59	2.139	2.139	(0.445)	106371	100.000	95.73
148	Tert-butyl alcohol	59	2.967	2.967	(0.617)	261734	2000.00	1888.85
149	Isopropyl alcohol	45	2.562	2.562	(0.533)	210042	2000.00	1887.90
156	Diisopropyl ether	45	3.616	3.616	(0.751)	493317	100.000	96.84
162	Butyl acrylate	55	8.729	8.729	(1.067)	289806	100.000	98.47
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	722443	100.000	93.66
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	487628	100.000	95.63
167	Ethanol	45	2.079	2.079	(0.432)	37556	2000.00	1893.77
172	tert-Butyl formate	59	5.239	5.239	(1.089)	268682	200.000	200.21(A)
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	933229	2000.00	1831.42
140	1,3-Butadiene	54	1.396	1.396	(0.290)	71920	100.000	95.61
182	Epichlorohydrin	57	6.626	6.626	(1.194)	38464	400.000	400.28
M 94	1,2-Dichloroethylene (total)	96				298780	200.000	(a)
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	217535	100.000	111.14
130	Ethyl Acetate	43	4.530	4.530	(0.942)	57788	100.000	98.17(M)
131	Methyl Acrylate	55	4.362	4.362	(0.907)	176642	100.000	95.90
189	n-Butyl acetate	43	7.589	7.589	(0.928)	224409	100.000	100.64(M)
134	Cyclohexanone	55	9.149	9.149	(0.900)	134205	2000.00	1872.30
185	Isoprene	39	2.150	2.150	(0.447)	36929	100.000	97.94
188	Isopropyl acetate	43	5.280	5.280	(0.951)	465647	100.000	99.21
150	Allyl alcohol	57	3.334	3.334	(0.693)	135314	2000.00	1897.28
194	Acetaldehyde	44	1.453	1.453	(0.302)	131432	400.000	389.31(M)
200	Dimethyl Disulfide	94	6.746	6.746	(0.825)	129891	100.000	99.89
202	Isobutylene	41	1.741	1.741	(0.362)	74543	100.000	101.29(M)
133	Ethyl Acrylate	55	5.943	5.943	(1.235)	374351	100.000	98.47
163	Butyl methacrylate	41	9.647	9.647	(0.949)	165827	100.000	96.27
159	Propylene oxide	43	2.195	2.195	(0.456)	23375	200.000	185.16
178	Ethylene oxide	44	1.595	1.595	(0.332)	487526	200.000	200.35
203	2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	193513	100.000	100.02
204	Tetrahydrothiophene	60	7.668	7.668	(0.937)	140083	100.000	99.11(A)

205 sec-Butyl Ether	57	7.214	7.214 (0.882)	318993	100.000	87.37(AM)
187 n-Amyl acetate	43	8.927	8.927 (1.091)	282795	100.000	101.87(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.



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Sample Info: VSTD100;VSTD100;1;8
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Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

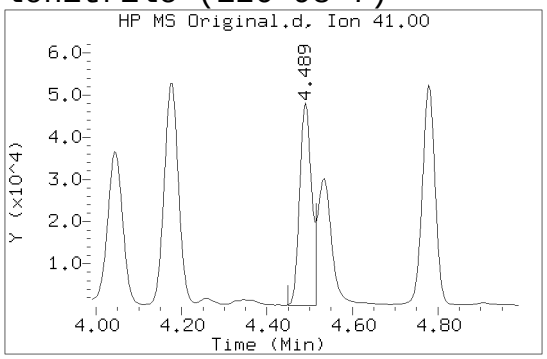
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LabSampID : VSTD100

Methacrylonitrile (126-98-7)

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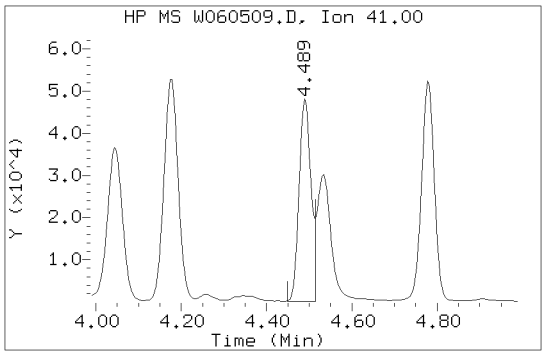
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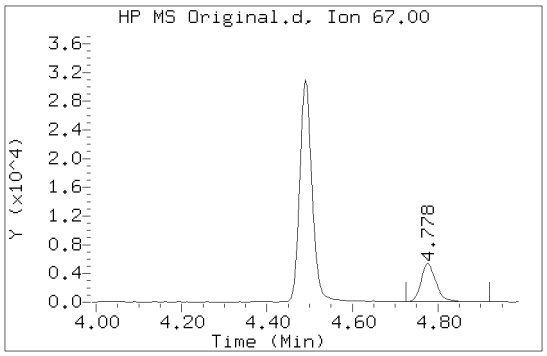
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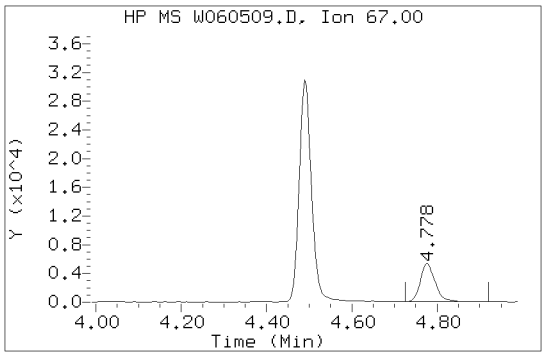
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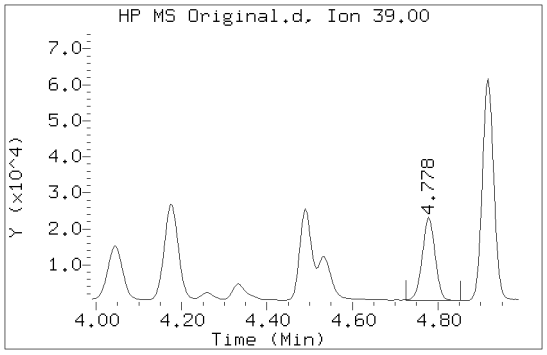
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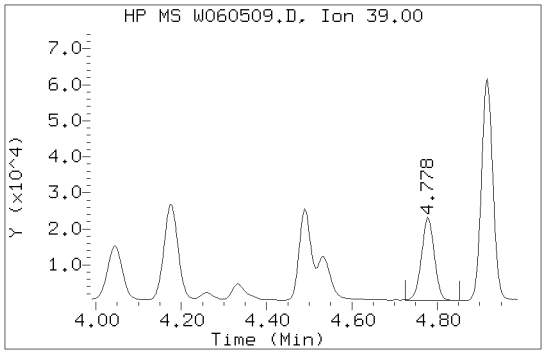
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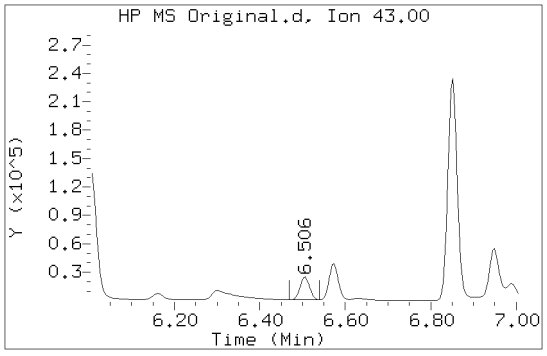


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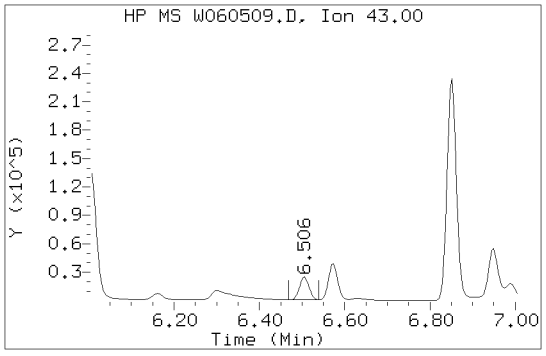
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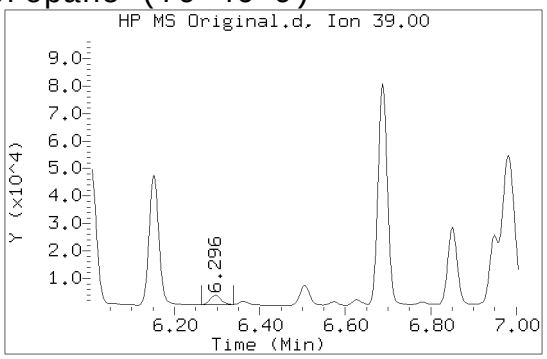
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LabSampID : VSTD100

2-Nitropropane (79-46-9)

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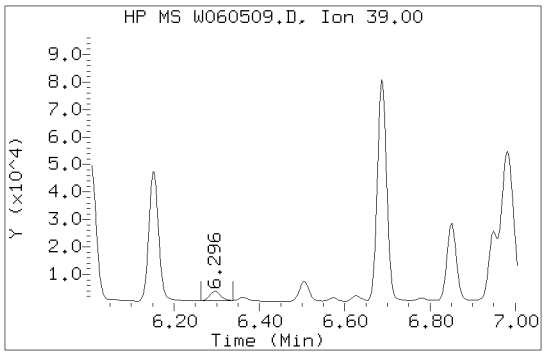
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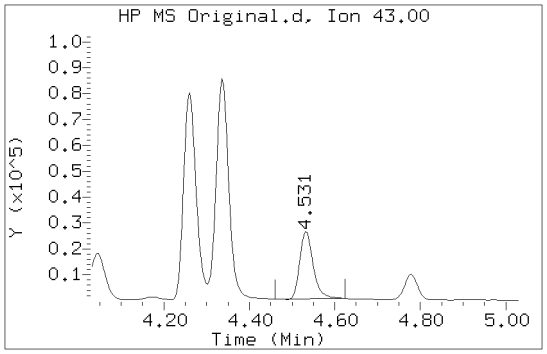


Ethyl Acetate (141-78-6)

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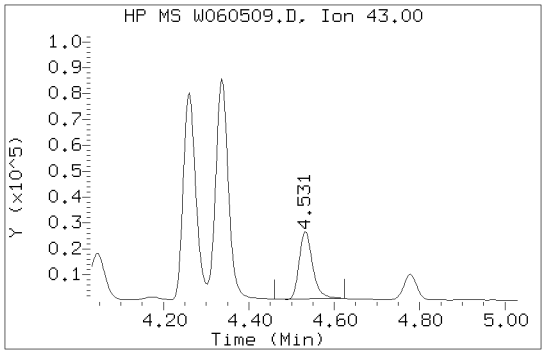
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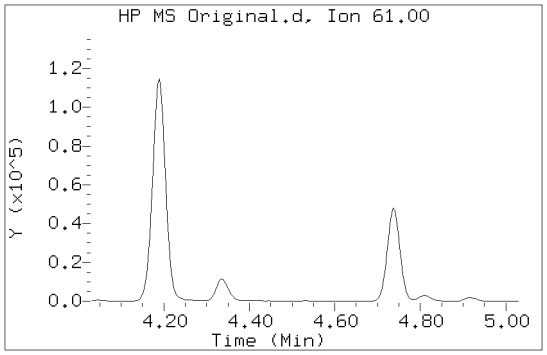
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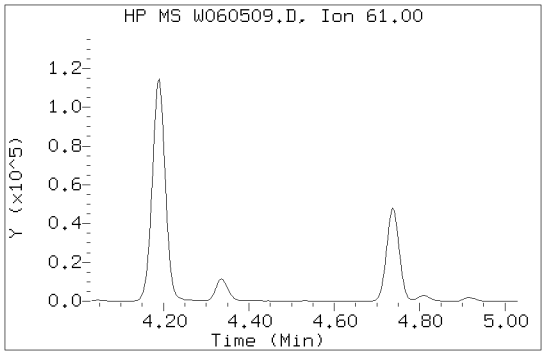
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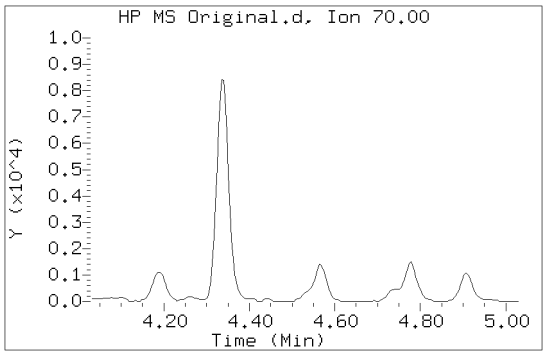
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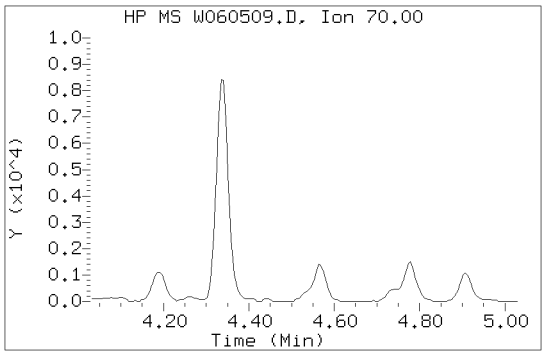
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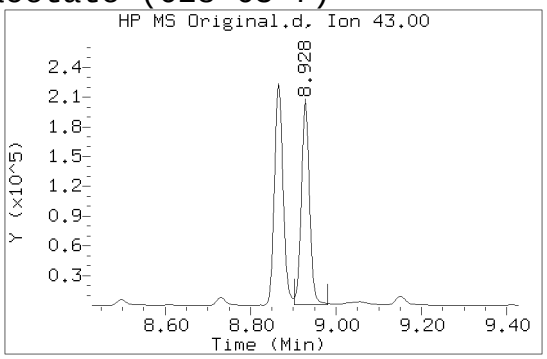
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InstruID : VOA9.i
LabSampID : VSTD100

n-Amyl acetate (628-63-7)

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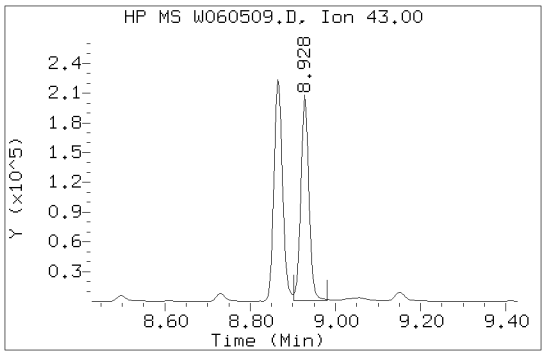
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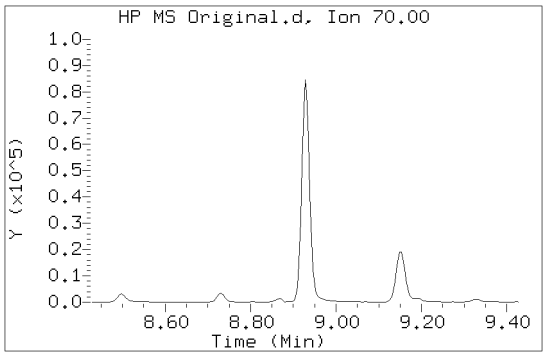
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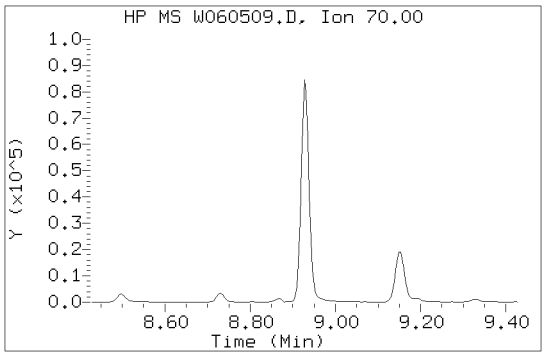
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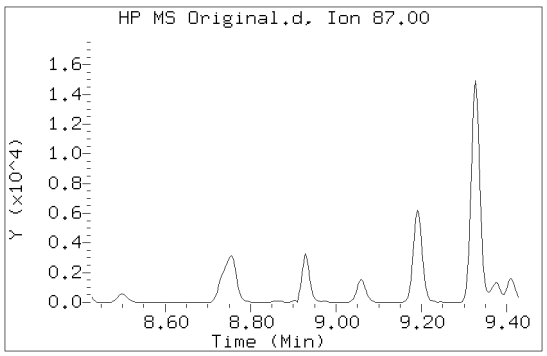
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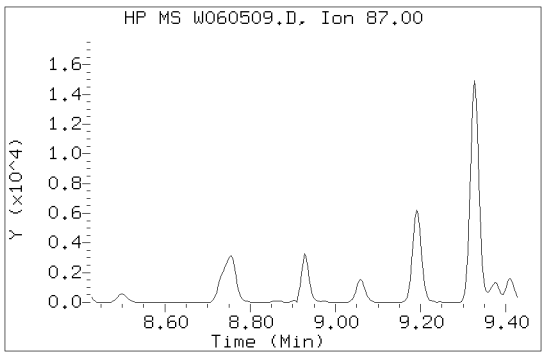
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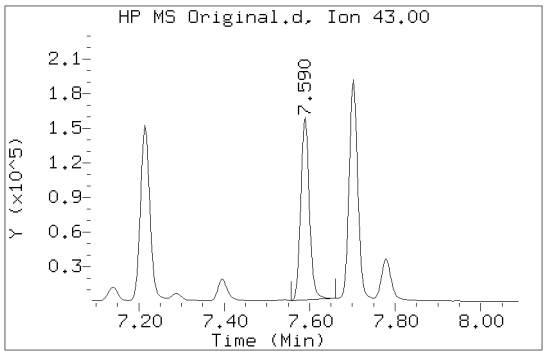


n-Butyl acetate (123-86-4)

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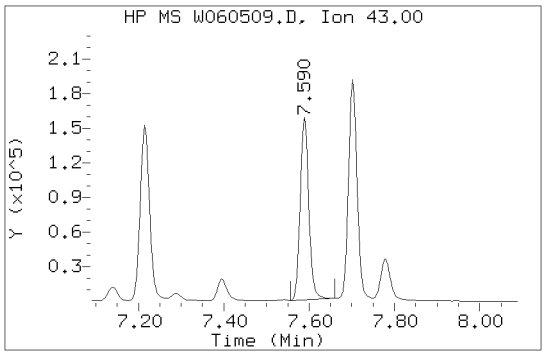
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AFTER

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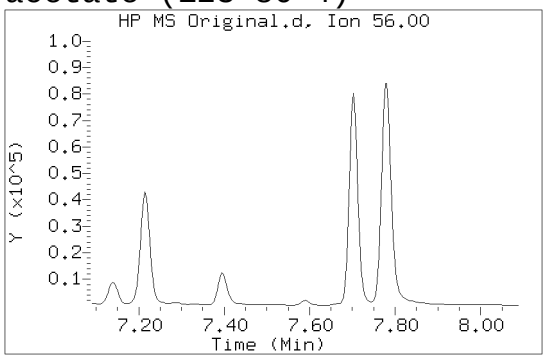
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InstruID : VOA9.i
LabSampID : VSTD100

n-Butyl acetate (123-86-4)

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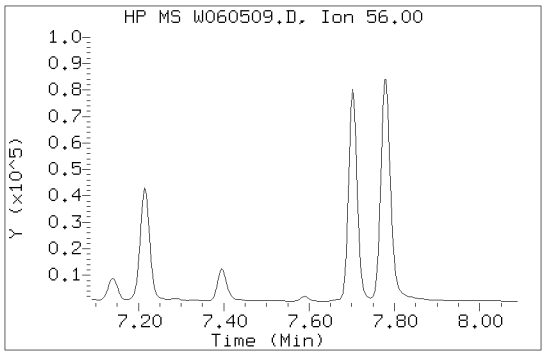
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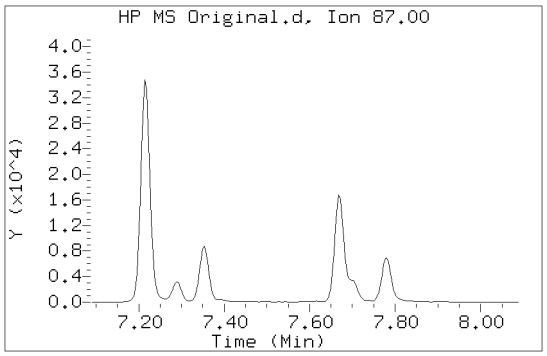
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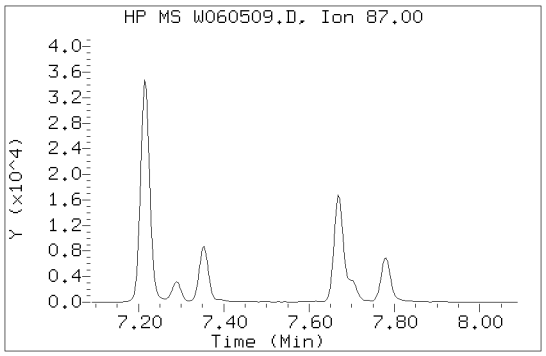
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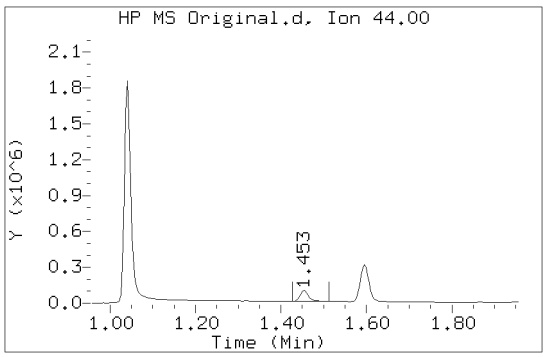


Acetaldehyde (75-07-0)

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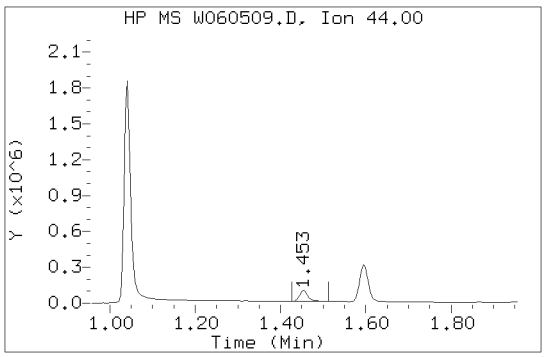
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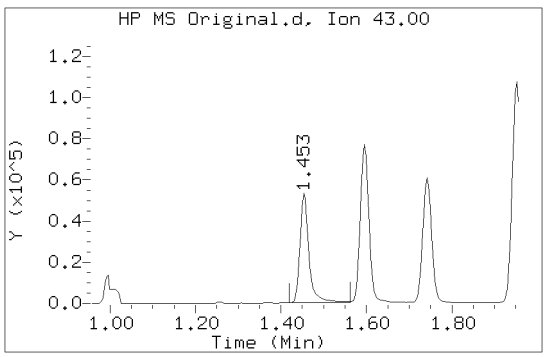
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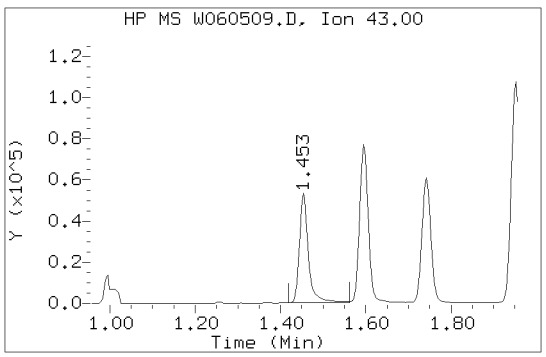
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AFTER

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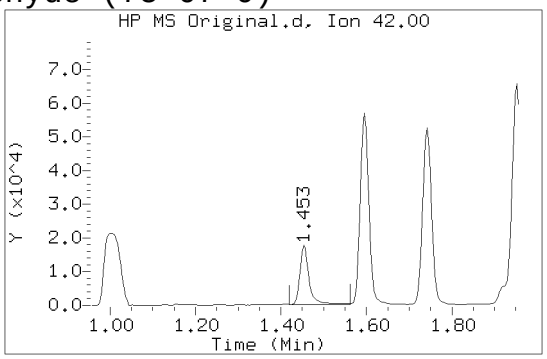
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LabSampID : VSTD100

Acetaldehyde (75-07-0)

Reason Code:

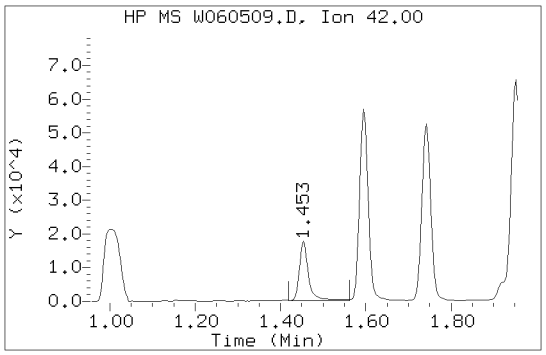
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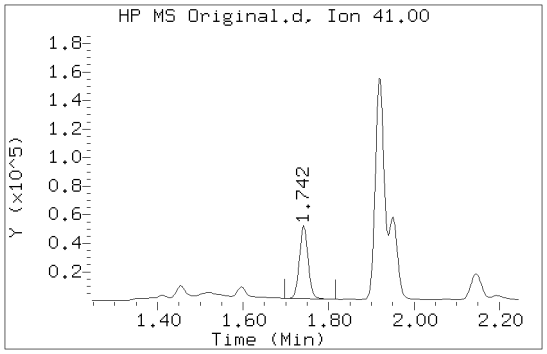


Isobutylene (115-11-7)

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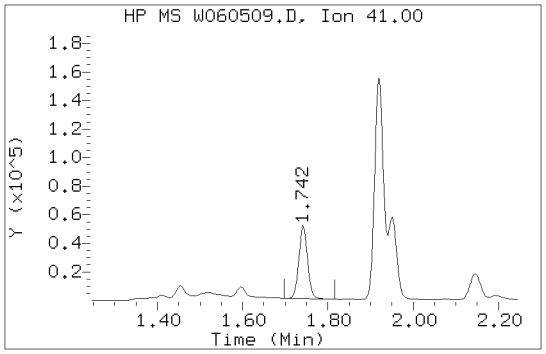
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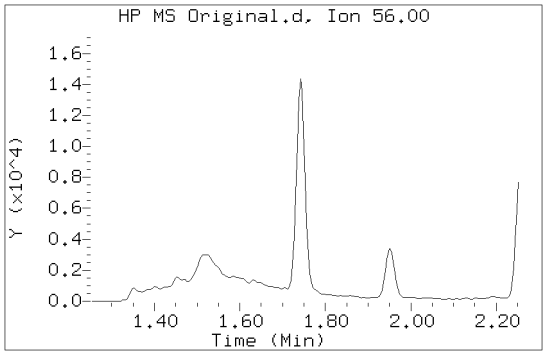
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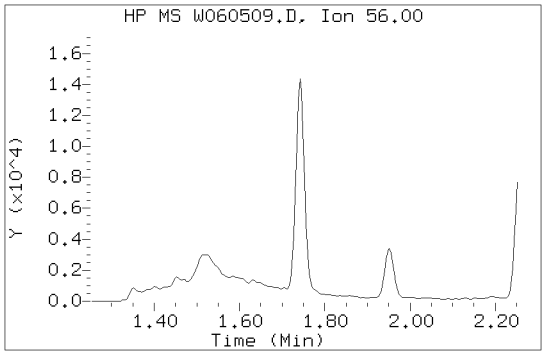
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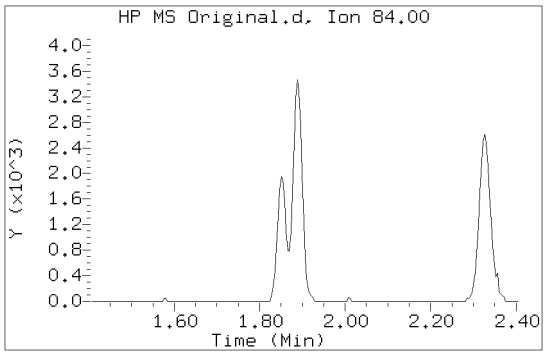
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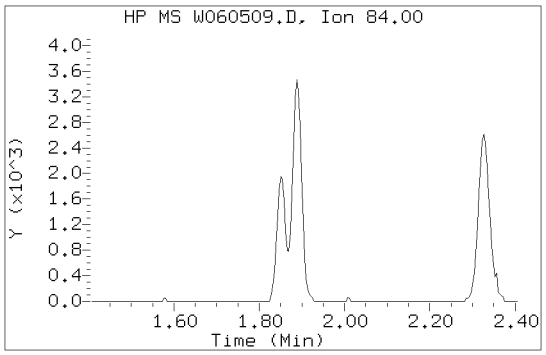
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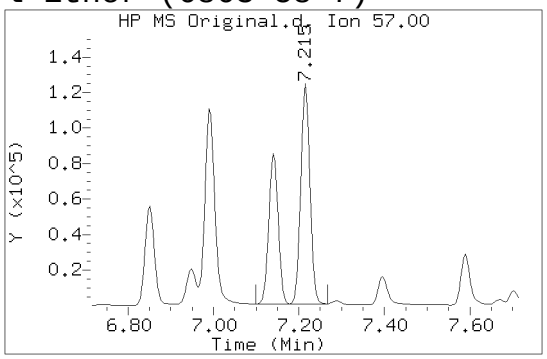
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Inj Date : 05-JUN-2024 21:29
InstruID : VOA9.i
LabSampID : VSTD100

sec-Butyl Ether (6863-58-7)

Reason Code:

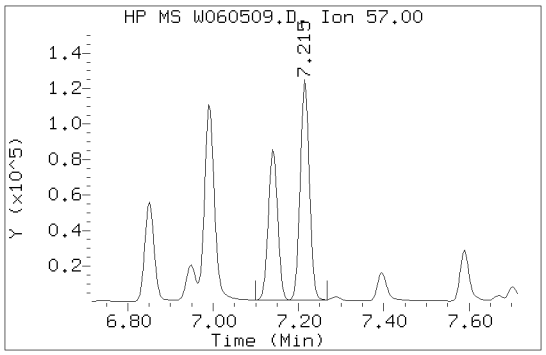
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AFTER

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Data File: \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060510.D Page 1
Report Date: 21-Jun-2024 17:12

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060510.D
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Inj Date : 05-JUN-2024 21:50
Operator : TS Inst ID: VOA9.i
Smp Info : VSTD150;VSTD150;1;9
Misc Info : V9;WATER;0;1;
Comment   :
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Cal Date : 05-JUN-2024 21:29 Cal File: W060509.D
Als bottle: 12 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.819	4.819	(1.000)	224098	50.0000	
2	Dichlorodifluoromethane	85	1.168	1.168	(0.242)	108701	150.000	154.54
3	Chloromethane	50	1.299	1.299	(0.270)	381192	150.000	154.26
4	Propionitrile	54	4.339	4.339	(0.900)	325941	1500.00	1498.05
5	Vinyl Chloride	62	1.381	1.381	(0.287)	229224	150.000	150.63
6	Bromomethane	94	1.610	1.610	(0.334)	103324	150.000	151.07
7	Chloroethane	64	1.700	1.700	(0.353)	167664	150.000	152.72
8	Trichlorofluoromethane	101	1.899	1.899	(0.394)	314695	150.000	160.37
9	Acrolein	56	2.270	2.270	(0.471)	22474	300.000	288.36
10	Acetone	43	2.412	2.412	(0.501)	171689	300.000	295.99
11	1,1-Dichloroethene	96	2.337	2.337	(0.485)	196399	150.000	152.80
12	Isobutyl Alcohol	43	5.287	5.287	(1.097)	720278	3000.00	3022.06
13	Acetonitrile	39	2.675	2.675	(0.555)	282036	1500.00	1518.14
14	Allyl Chloride	41	2.675	2.675	(0.555)	639130	150.000	151.94
15	Iodomethane	142	2.468	2.468	(0.512)	196790	300.000	25.98
16	Acrylonitrile	53	3.068	3.068	(0.637)	168175	300.000	301.92
17	Methylene Chloride	84	2.795	2.795	(0.580)	226783	150.000	149.30
18	Methyl tert-butyl ether	73	3.087	3.087	(0.641)	572755	150.000	150.17
19	Carbon Disulfide	76	2.521	2.521	(0.523)	1128055	300.000	306.23
20	trans-1,2-Dichloroethene	96	3.061	3.061	(0.635)	208803	150.000	151.60

21 Vinyl Acetate	43	4.343	4.343 (0.901)	258861	300.000	294.73
22 1,1-Dichloroethane	63	3.514	3.514 (0.729)	401447	150.000	149.69

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060510.D Page 2
Report Date: 21-Jun-2024 17:12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
23	Chloroprene	53	3.612	3.612	(0.750)	352949	150.000	154.48
24	2-Butanone	43	4.268	4.268	(0.886)	244157	300.000	297.02
25	Methacrylonitrile	41	4.496	4.496	(0.933)	148796	150.000	147.15(aM)
26	2,2-Dichloropropane	77	4.185	4.185	(0.869)	302510	150.000	158.64
27	cis-1,2-Dichloroethene	96	4.197	4.197	(0.871)	250121	150.000	150.90
28	Chloroform	83	4.575	4.575	(0.949)	409747	150.000	138.73
29	Bromochloromethane	128	4.470	4.470	(0.928)	119214	150.000	148.90
$ 30	Dibromofluoromethane	113	4.751	4.751	(0.986)	221107	150.000	136.88
31	1,1,1-Trichloroethane	97	4.744	4.744	(0.984)	343905	150.000	162.16
32	1,1-Dichloropropene	75	4.924	4.924	(0.887)	317027	150.000	152.76
33	1,2-Dichloroethane	62	5.175	5.175	(0.932)	330090	150.000	149.97
34	Carbon Tetrachloride	117	4.913	4.913	(0.885)	287928	150.000	168.14
$ 35	1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	271469	150.000	137.85
* 36	1,4-Difluorobenzene	114	5.554	5.554	(1.000)	321312	50.0000	
37	Benzene	78	5.141	5.141	(0.926)	918326	150.000	150.57
38	Trichloroethene	130	5.790	5.790	(1.043)	239586	150.000	149.72
39	Bromodichloromethane	83	6.277	6.277	(1.130)	297041	150.000	155.80
40	Methyl Methacrylate	41	5.823	5.823	(1.208)	106205	150.000	150.38
41	2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	150387	300.000	307.85
42	1,2-Dichloropropane	63	6.011	6.011	(1.082)	255544	150.000	150.16
43	2-Nitropropane	43	6.506	6.506	(1.350)	62473	150.000	193.47(M)
44	Dibromomethane	93	6.120	6.120	(1.102)	145069	150.000	148.14
45	4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	539055	300.000	296.99
46	cis-1,3-Dichloropropene	75	6.689	6.689	(1.205)	381863	150.000	148.34
* 47	Chlorobenzene-d5	117	8.185	8.185	(1.000)	293312	50.0000	
$ 48	Toluene-d8	98	6.922	6.922	(0.846)	817446	150.000	138.77
49	Ethyl Methacrylate	69	7.289	7.289	(1.313)	345145	150.000	166.03
50	Toluene	91	6.978	6.978	(0.853)	959577	150.000	146.54
51	trans-1,3-Dichloropropene	75	7.195	7.195	(1.296)	320938	150.000	149.52
52	2-Hexanone	43	7.218	7.218	(0.882)	365524	300.000	301.65
53	1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	185722	150.000	149.68
54	1,3-Dichloropropane	76	7.499	7.499	(0.916)	401664	150.000	149.99
55	Dibromochloromethane	129	7.690	7.690	(0.940)	236457	150.000	148.69
56	Tetrachloroethene	164	7.454	7.454	(0.911)	192012	150.000	150.85
57	1,2-Dibromoethane	107	7.784	7.784	(0.951)	220913	150.000	149.11
58	1-Chlorohexane	55	8.196	8.196	(1.476)	208843	150.000	154.46
59	Chlorobenzene	112	8.208	8.208	(1.003)	613010	150.000	150.47
60	1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	226553	150.000	159.84
61	Ethylbenzene	106	8.305	8.305	(1.015)	323660	150.000	154.77
62	m,p-Xylenes	106	8.406	8.406	(1.027)	820527	300.000	315.76
63	o-Xylene	106	8.744	8.744	(1.068)	393377	150.000	156.40
64	Styrene	104	8.759	8.759	(1.070)	665479	150.000	163.60
66	Bromoform	173	8.916	8.916	(1.089)	153936	150.000	147.73
67	Isopropylbenzene	105	9.059	9.059	(1.107)	1006051	150.000	168.41
68	1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	312825	150.000	148.51
$ 69	4-Bromofluorobenzene	95	9.190	9.190	(1.123)	302997	150.000	142.18
* 70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	159170	50.0000	
71	1,2,3-Trichloropropane	75	9.362	9.362	(0.921)	323632	150.000	146.65
72	trans-1,4-Dichloro-2-butene	53	9.373	9.373	(1.145)	71862	150.000	156.25
73	n-Propylbenzene	91	9.411	9.411	(0.926)	1197081	150.000	165.43
74	Bromobenzene	156	9.313	9.313	(0.916)	270926	150.000	149.39
75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	825853	150.000	173.32

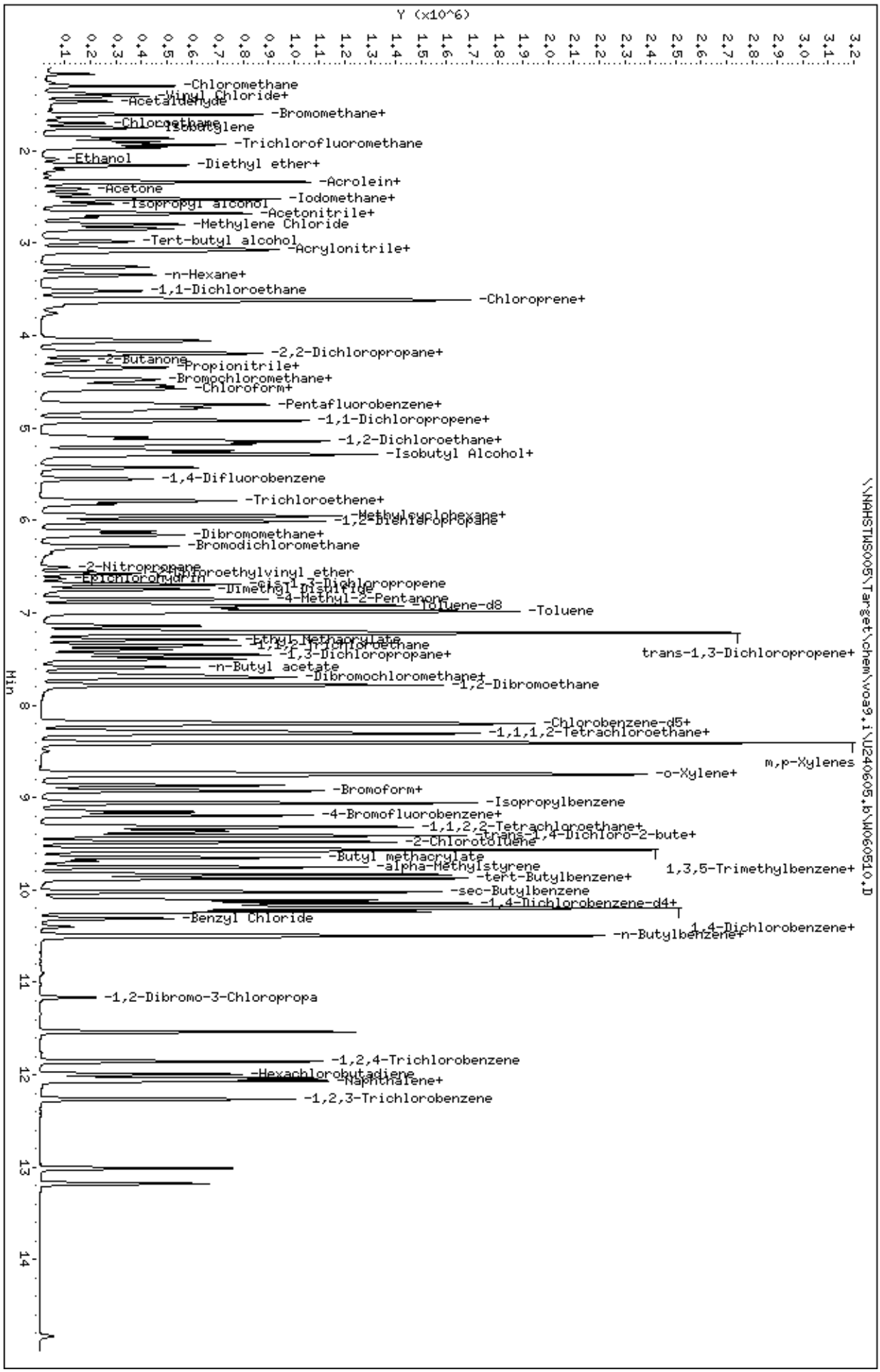
76	2-Chlorotoluene	91	9.482	9.482 (0.933)	700064	150.000	149.20
77	4-Chlorotoluene	91	9.572	9.572 (0.941)	817721	150.000	151.33

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	714556	150.000	164.12
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	827658	150.000	167.94
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	992445	150.000	172.42
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	865877	150.000	177.10
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	482857	150.000	144.23
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	499141	150.000	150.80
86	Benzyl Chloride	91	10.307	10.307	(1.259)	328807	150.000	152.98
87	n-Butylbenzene	91	10.491	10.491	(1.032)	771364	150.000	153.74
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	473254	150.000	150.73
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	44798	150.000	152.58
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	328333	150.000	152.03
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	143551	150.000	157.56
92	Naphthalene	128	12.065	12.065	(1.187)	774087	150.000	150.34
93	1,2,3-Trichlorobenzene	180	12.267	12.267	(1.206)	297539	150.000	162.22
146	Methyl acetate	43	2.720	2.720	(0.564)	236899	150.000	149.36
138	Freon TF	101	2.337	2.337	(0.485)	181462	150.000	164.87
141	Cyclohexane	56	4.785	4.785	(0.993)	310874	150.000	154.20
142	Tetrahydrofuran	42	4.545	4.545	(0.943)	87502	300.000	304.76
147	Methylcyclohexane	55	5.947	5.947	(1.071)	596883	150.000	161.48(A)
135	1,4-Dioxane	88	6.165	6.165	(1.279)	53042	3000.00	3099.50
132	n-Butanol	56	5.823	5.823	(1.208)	150194	3000.00	2992.50
136	n-Hexane	57	3.342	3.342	(0.694)	222995	150.000	156.56
139	Diethyl ether	59	2.150	2.150	(0.446)	167293	150.000	151.23
148	Tert-butyl alcohol	59	2.978	2.978	(0.618)	415397	3000.00	3005.07
149	Isopropyl alcohol	45	2.573	2.573	(0.534)	335539	3000.00	3023.89
156	Diisopropyl ether	45	3.627	3.627	(0.753)	763018	150.000	150.28
162	Butyl acrylate	55	8.729	8.729	(1.066)	499325	150.000	172.45
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	1167216	150.000	152.23
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	772417	150.000	152.45
167	Ethanol	45	2.094	2.094	(0.435)	60125	3000.00	3051.15
172	tert-Butyl formate	59	5.246	5.246	(1.089)	438392	300.000	327.69(A)
151	4-Methyl-2-pentanol	45	7.218	7.218	(1.300)	1550800	3000.00	3018.07
140	1,3-Butadiene	54	1.408	1.408	(0.292)	115416	150.000	153.77
182	Epichlorohydrin	57	6.629	6.629	(1.194)	63964	600.000	599.87
M 94	1,2-Dichloroethylene (total)	96				458924	300.000	(a)
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	344358	150.000	177.68
130	Ethyl Acetate	43	4.541	4.541	(0.942)	86452	150.000	148.94(M)
131	Methyl Acrylate	55	4.373	4.373	(0.907)	277014	150.000	150.59
189	n-Butyl acetate	43	7.589	7.589	(0.927)	345192	150.000	157.35(M)
134	Cyclohexanone	55	9.152	9.152	(0.900)	228370	3000.00	3039.92
185	Isoprene	39	2.161	2.161	(0.449)	58145	150.000	154.86
188	Isopropyl acetate	43	5.287	5.287	(0.952)	714858	150.000	150.33
150	Allyl alcohol	57	3.342	3.342	(0.694)	222995	3000.00	3131.28
194	Acetaldehyde	44	1.464	1.464	(0.304)	195750	600.000	581.69(M)
200	Dimethyl Disulfide	94	6.746	6.746	(0.824)	259716	150.000	64.51
202	Isobutylene	41	1.752	1.752	(0.364)	116080	150.000	158.39(M)
133	Ethyl Acrylate	55	5.947	5.947	(1.234)	596883	150.000	157.67
163	Butyl methacrylate	41	9.647	9.647	(0.949)	275621	150.000	151.94
159	Propylene oxide	43	2.206	2.206	(0.458)	39129	300.000	311.25(A)
178	Ethylene oxide	44	1.606	1.606	(0.333)	638320	300.000	300.31
203	2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	339518	150.000	149.93
204	Tetrahydrothiophene	60	7.668	7.668	(0.937)	218920	150.000	157.44(A)

205 sec-Butyl Ether	57	7.218	7.218 (0.882)	524832	150.000	146.12(AM)
187 n-Amyl acetate	43	8.927	8.927 (1.091)	447127	150.000	163.72(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.



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Client ID: VSTD150
Sample Info: VSTD150;VSTD150;1;9
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

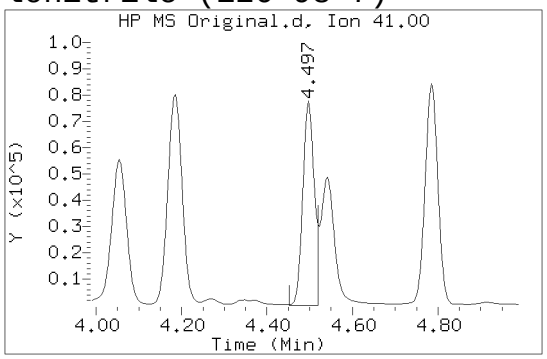
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InstruID : VOA9.i
LabSampID : VSTD150

Methacrylonitrile (126-98-7)

Reason Code:

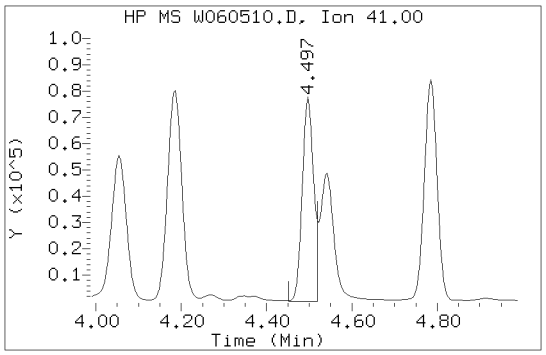
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17:11
RUCHA
PATEL



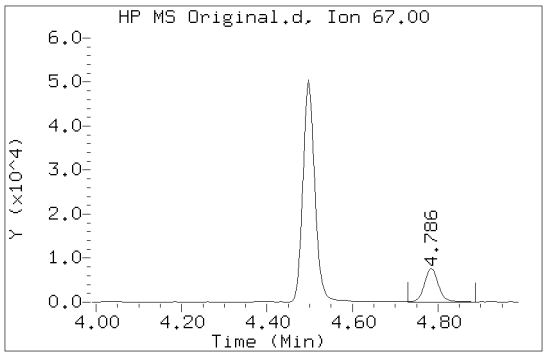
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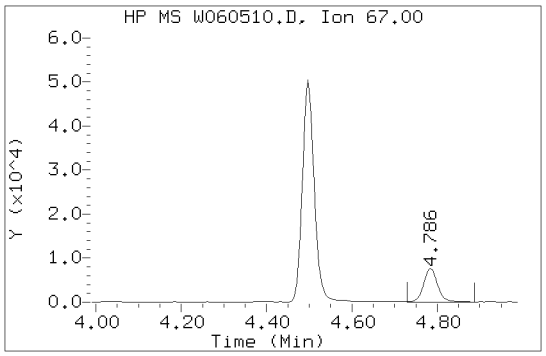
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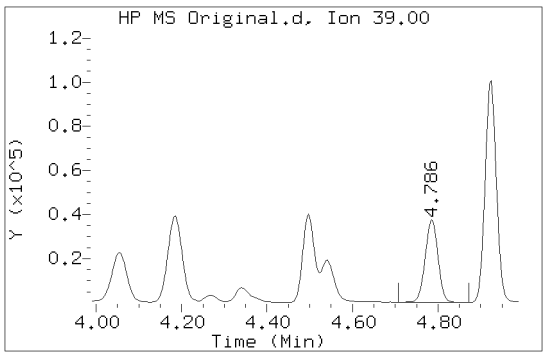
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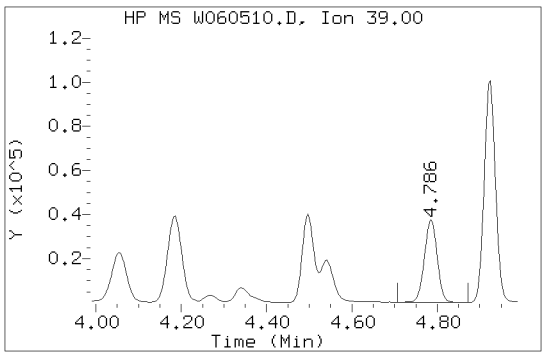
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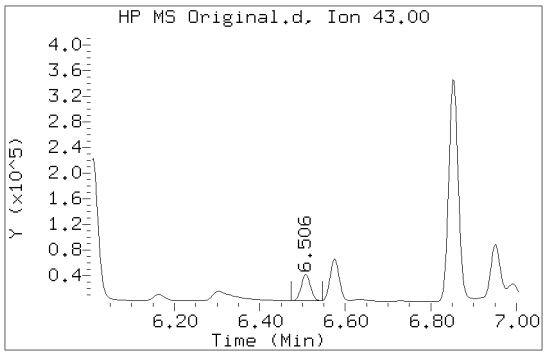


2-Nitropropane (79-46-9)

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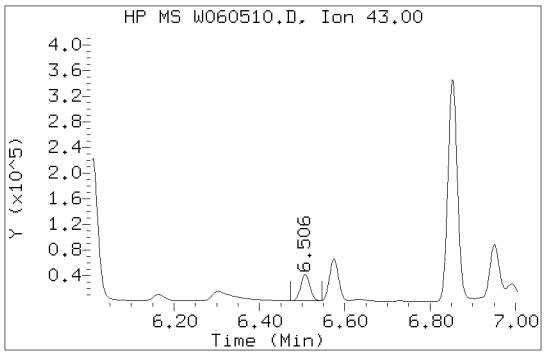
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21-Jun-2024
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AFTER

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HEIGHT
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17:11
RUCHA
PATEL



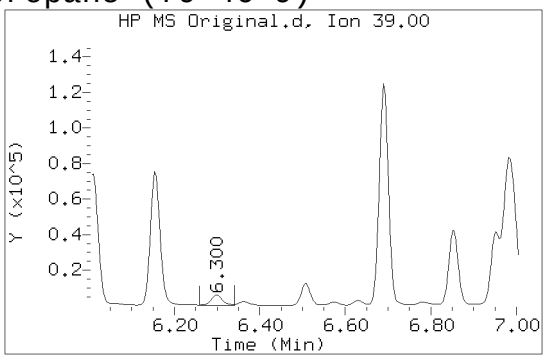
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InstruID : VOA9.i
LabSampID : VSTD150

2-Nitropropane (79-46-9)

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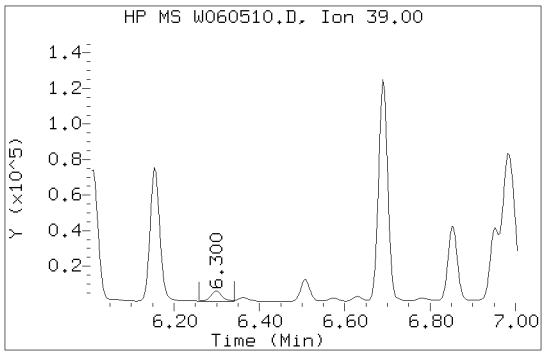
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AFTER

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21-Jun-2024
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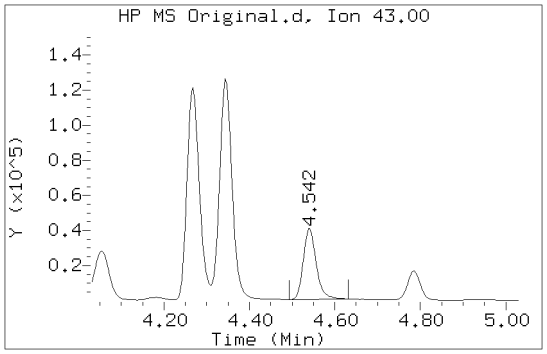


Ethyl Acetate (141-78-6)

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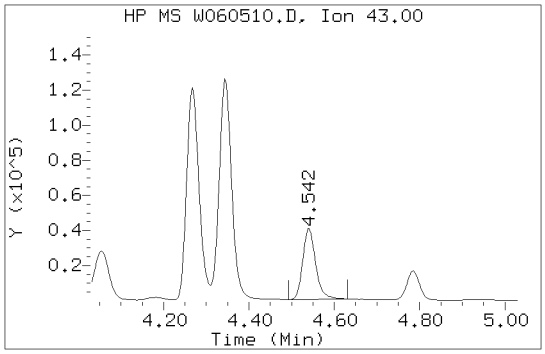
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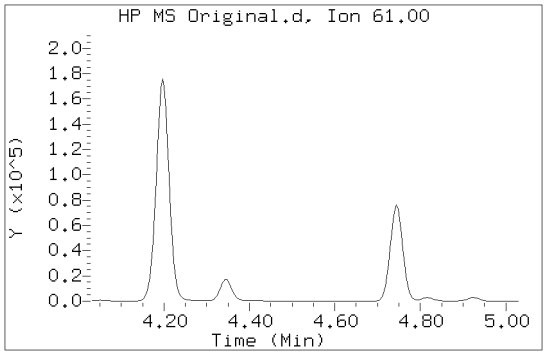
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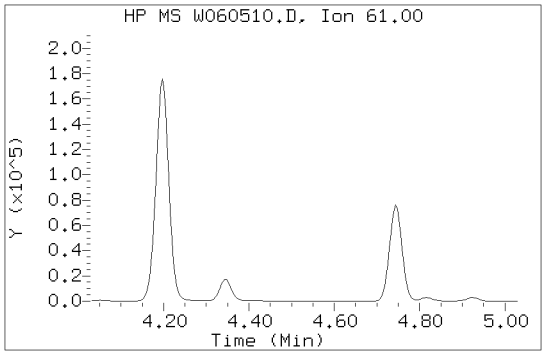
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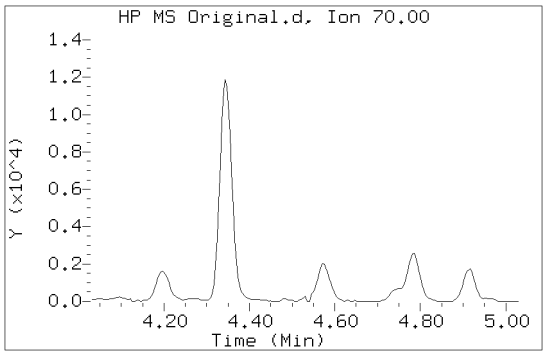
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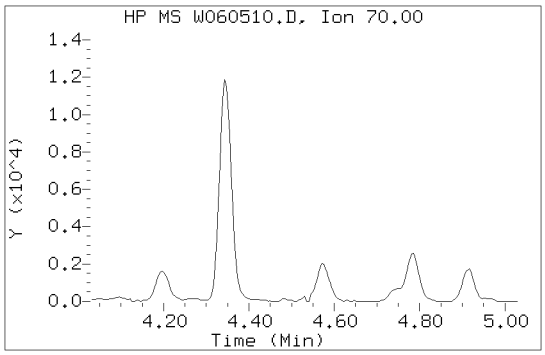
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AFTER

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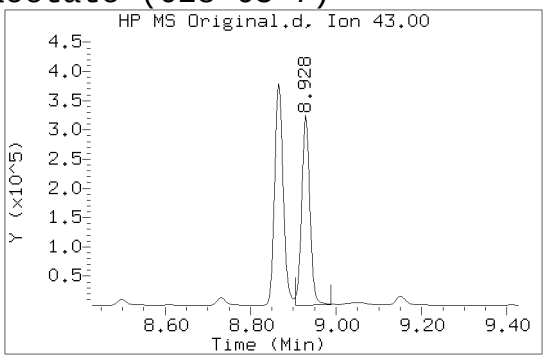
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Inj Date : 05-JUN-2024 21:50
InstruID : VOA9.i
LabSampID : VSTD150

n-Amyl acetate (628-63-7)

Reason Code:

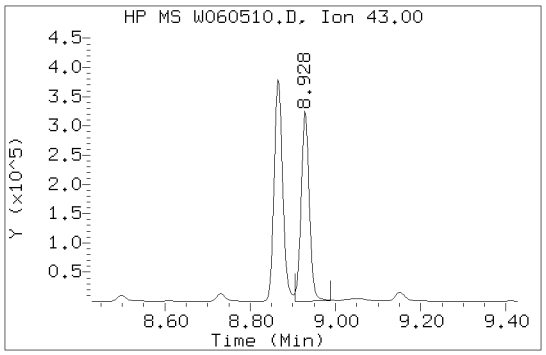
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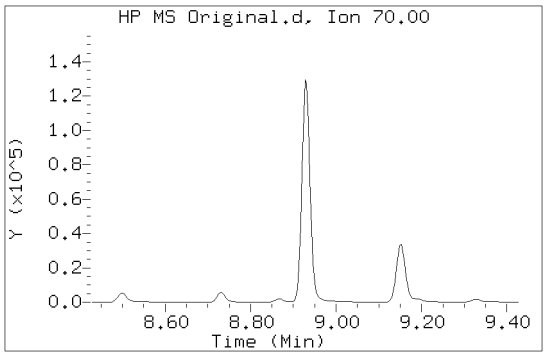
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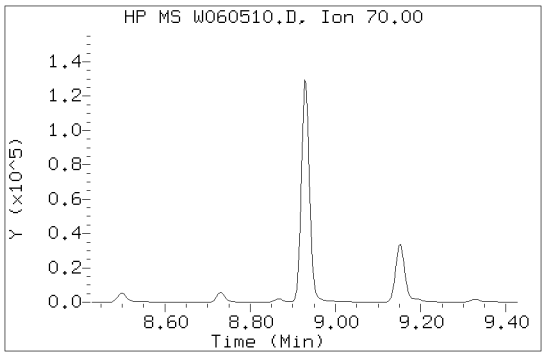
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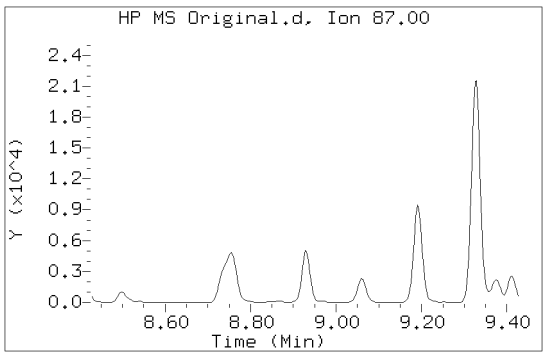
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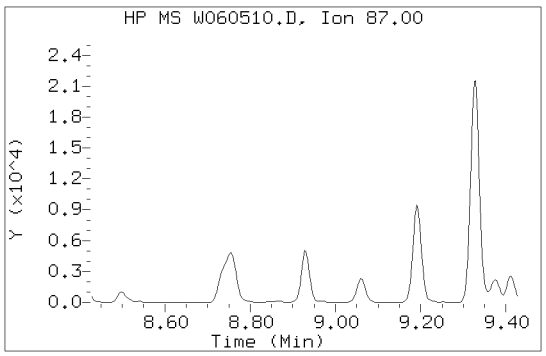
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AFTER

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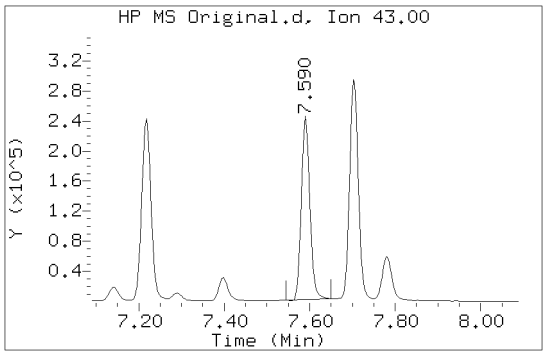


n-Butyl acetate (123-86-4)

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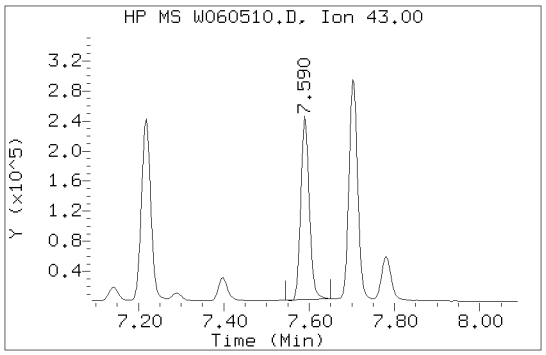
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AFTER

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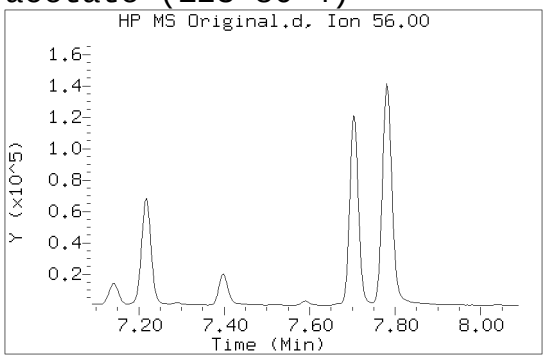


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Inj Date : 05-JUN-2024 21:50
InstruID : VOA9.i
LabSampID : VSTD150

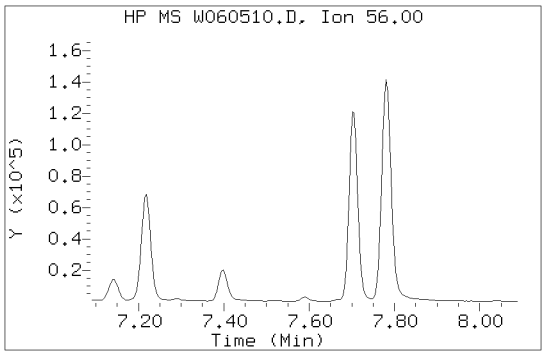
n-Butyl acetate (123-86-4)

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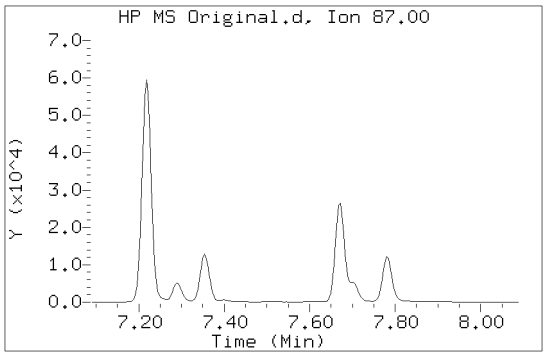
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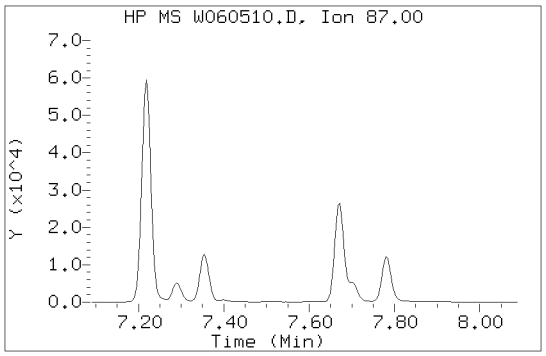
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BEFORE
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21-Jun-2024
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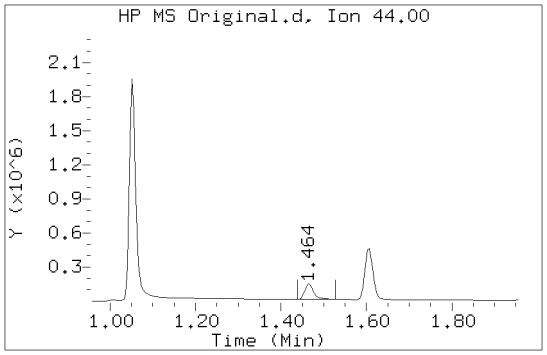
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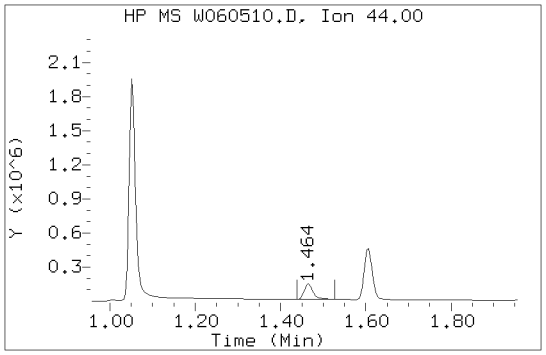
Acetaldehyde (75-07-0)

Reason Code:

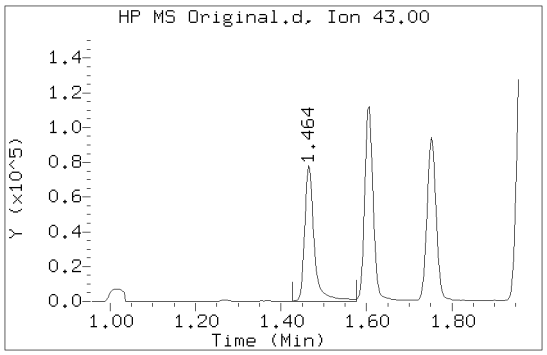
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21-Jun-2024
17:11
RUCHA
PATEL



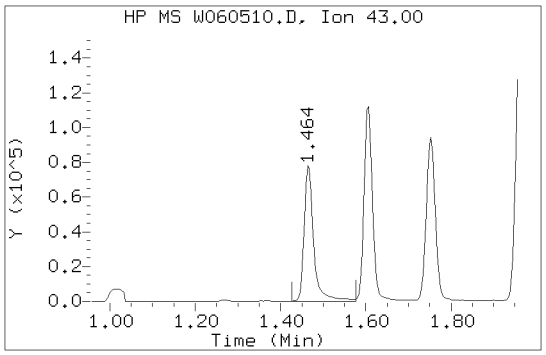
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BEFORE
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21-Jun-2024
17:11
RUCHA
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AFTER
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17:11
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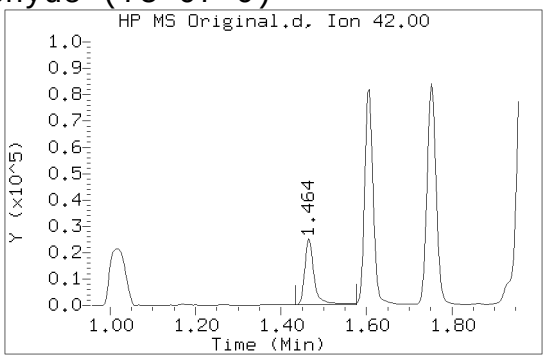
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Inj Date : 05-JUN-2024 21:50
InstruID : VOA9.i
LabSampID : VSTD150

Acetaldehyde (75-07-0)

Reason Code:

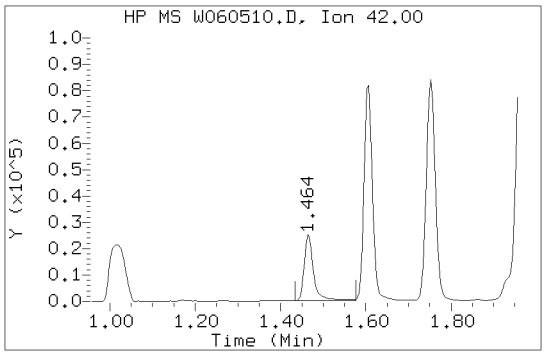
BEFORE

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AFTER

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24977
21-Jun-2024
17:11
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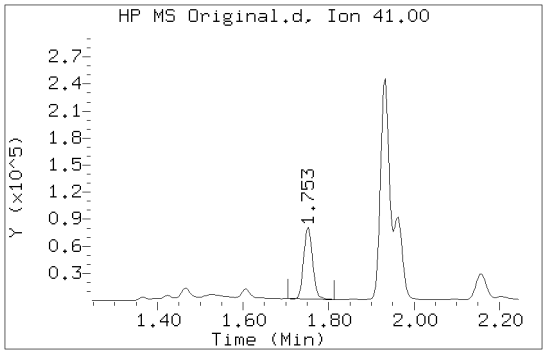


Isobutylene (115-11-7)

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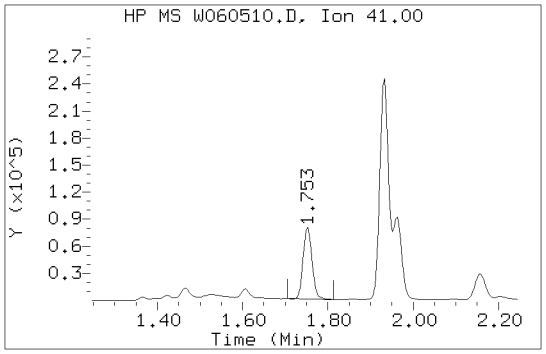
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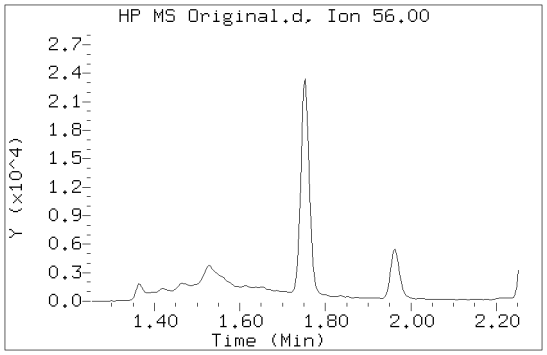
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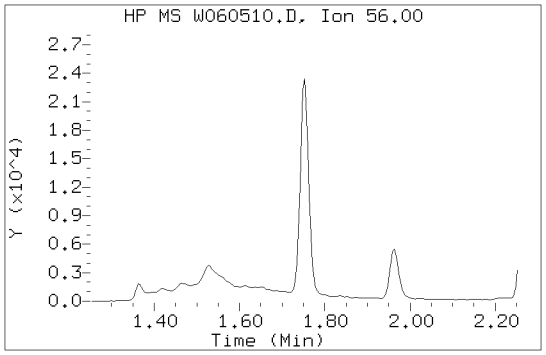
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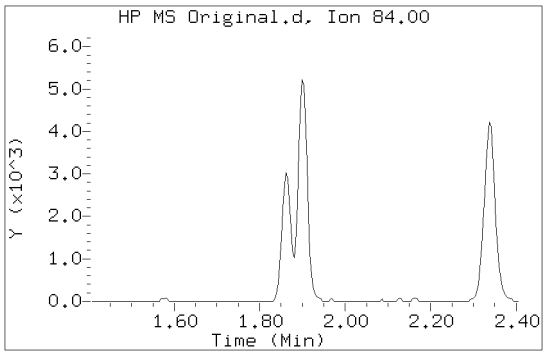
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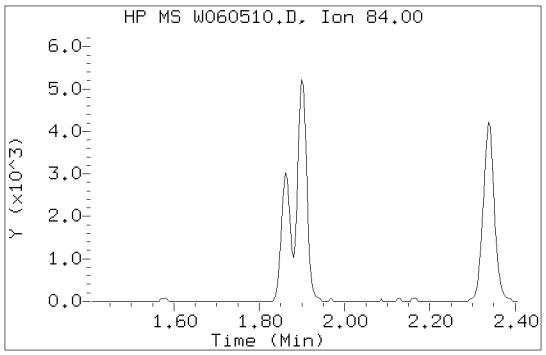
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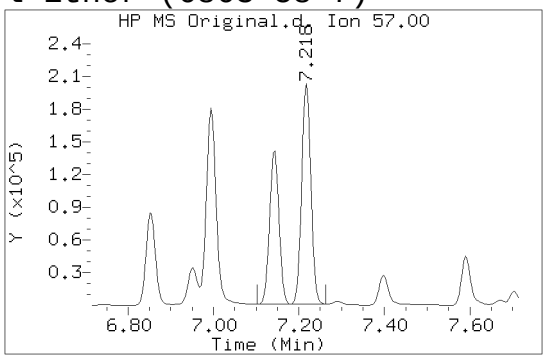
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InstruID : VOA9.i
LabSampID : VSTD150

sec-Butyl Ether (6863-58-7)

Reason Code:

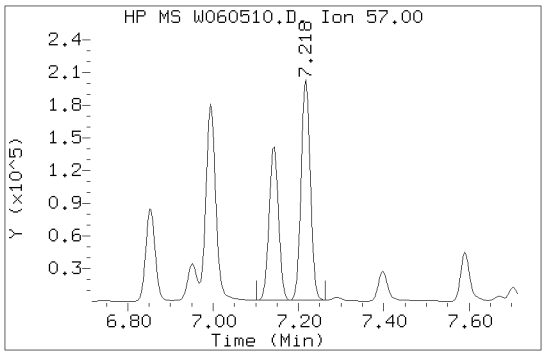
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Data File: \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060511.D Page 1
Report Date: 21-Jun-2024 17:12

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060511.D
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Inj Date : 05-JUN-2024 22:12
Operator : TS Inst ID: VOA9.i
Smp Info : VSTD200;VSTD200;1;10
Misc Info : V9;WATER;0;1;
Comment   :
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Meth Date : 21-Jun-2024 17:12 VOA9.i Quant Type: ISTD
Cal Date : 05-JUN-2024 21:50 Cal File: W060510.D
Als bottle: 13 Calibration Sample, Level: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.815	4.815	(1.000)	232560	50.0000	
2	Dichlorodifluoromethane	85	1.160	1.160	(0.241)	145581	200.000	199.21
3	Chloromethane	50	1.295	1.295	(0.269)	489120	200.000	191.58
4	Propionitrile	54	4.339	4.339	(0.901)	456063	2000.00	2019.33(A)
5	Vinyl Chloride	62	1.374	1.374	(0.285)	312778	200.000	198.05
6	Bromomethane	94	1.602	1.602	(0.333)	142717	200.000	201.26(A)
7	Chloroethane	64	1.689	1.689	(0.351)	226867	200.000	199.18
8	Trichlorofluoromethane	101	1.891	1.891	(0.393)	418028	200.000	205.28(A)
9	Acrolein	56	2.262	2.262	(0.470)	35211	400.000	403.92(A)
10	Acetone	43	2.408	2.408	(0.500)	242163	400.000	403.84(A)
11	1,1-Dichloroethene	96	2.330	2.330	(0.484)	264747	200.000	198.49
12	Isobutyl Alcohol	43	5.284	5.284	(1.097)	1008682	4000.00	4078.13(A)
13	Acetonitrile	39	2.671	2.671	(0.555)	386763	2000.00	2005.54(A)
14	Allyl Chloride	41	2.671	2.671	(0.555)	874172	200.000	200.23(A)
16	Acrylonitrile	53	3.064	3.064	(0.636)	230885	400.000	399.89
17	Methylene Chloride	84	2.791	2.791	(0.580)	314968	200.000	200.28(A)
18	Methyl tert-butyl ether	73	3.079	3.079	(0.640)	796968	200.000	201.37(A)
19	Carbon Disulfide	76	2.517	2.517	(0.523)	1538405	400.000	402.43(A)
20	trans-1,2-Dichloroethene	96	3.053	3.053	(0.634)	285675	200.000	199.84
21	Vinyl Acetate	43	4.339	4.339	(0.901)	366892	400.000	402.37(A)

22 1,1-Dichloroethane	63	3.510	3.510 (0.729)	557243	200.000	200.34(A)
23 Chloroprene	53	3.608	3.608 (0.749)	483807	200.000	204.06(A)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
24	2-Butanone	43	4.264	4.264	(0.886)	343950	400.000	403.47(A)
25	Methacrylonitrile	41	4.493	4.493	(0.933)	215084	200.000	204.40(aAM)
26	2,2-Dichloropropane	77	4.181	4.181	(0.868)	419144	200.000	211.80(A)
27	cis-1,2-Dichloroethene	96	4.193	4.193	(0.871)	344361	200.000	200.14(A)
28	Chloroform	83	4.571	4.571	(0.949)	564105	200.000	184.04
29	Bromochloromethane	128	4.466	4.466	(0.928)	165957	200.000	199.91
$ 30	Dibromofluoromethane	113	4.747	4.747	(0.986)	309447	200.000	184.60
31	1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	472130	200.000	214.52(A)
32	1,1-Dichloropropene	75	4.920	4.920	(0.887)	439215	200.000	202.87(A)
33	1,2-Dichloroethane	62	5.175	5.175	(0.932)	456558	200.000	199.05
34	Carbon Tetrachloride	117	4.909	4.909	(0.885)	399737	200.000	223.75(A)
$ 35	1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	374583	200.000	183.29
* 36	1,4-Difluorobenzene	114	5.550	5.550	(1.000)	335208	50.0000	
37	Benzene	78	5.137	5.137	(0.926)	1272684	200.000	199.98
38	Trichloroethene	130	5.786	5.786	(1.043)	332345	200.000	199.08
39	Bromodichloromethane	83	6.277	6.277	(1.131)	418090	200.000	210.21(A)
40	Methyl Methacrylate	41	5.823	5.823	(1.209)	149326	200.000	202.93(A)
41	2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	229637	400.000	396.53
42	1,2-Dichloropropane	63	6.007	6.007	(1.082)	354491	200.000	199.69
43	2-Nitropropane	43	6.506	6.506	(1.351)	90419	200.000	269.83(AM)
44	Dibromomethane	93	6.116	6.116	(1.102)	204532	200.000	200.27(A)
45	4-Methyl-2-Pentanone	43	6.850	6.850	(0.837)	765349	400.000	404.26(A)
46	cis-1,3-Dichloropropene	75	6.689	6.689	(1.205)	547834	200.000	203.08(A)
* 47	Chlorobenzene-d5	117	8.181	8.181	(1.000)	305222	50.0000	
$ 48	Toluene-d8	98	6.922	6.922	(0.846)	1145138	200.000	186.82
49	Ethyl Methacrylate	69	7.289	7.289	(1.313)	485004	200.000	223.63
50	Toluene	91	6.978	6.978	(0.853)	1315628	200.000	193.07
51	trans-1,3-Dichloropropene	75	7.195	7.195	(1.297)	455455	200.000	202.45(A)
52	2-Hexanone	43	7.218	7.218	(0.882)	508784	400.000	403.99(A)
53	1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	258307	200.000	200.12(A)
54	1,3-Dichloropropane	76	7.495	7.495	(0.916)	556124	200.000	199.59
55	Dibromochloromethane	129	7.690	7.690	(0.940)	336013	200.000	202.36(A)
56	Tetrachloroethene	164	7.454	7.454	(0.911)	264670	200.000	199.83
57	1,2-Dibromoethane	107	7.784	7.784	(0.951)	310250	200.000	201.04(A)
58	1-Chlorohexane	55	8.196	8.196	(1.477)	282886	200.000	200.60(A)
59	Chlorobenzene	112	8.207	8.207	(1.003)	847312	200.000	199.91
60	1,1,1,2-Tetrachloroethane	131	8.282	8.282	(1.012)	319946	200.000	216.93(A)
61	Ethylbenzene	106	8.305	8.305	(1.015)	445587	200.000	204.77(A)
62	m,p-Xylenes	106	8.406	8.406	(1.027)	1121517	400.000	414.75(A)
63	o-Xylene	106	8.744	8.744	(1.069)	544401	200.000	208.00(A)
64	Styrene	104	8.759	8.759	(1.071)	915941	200.000	216.39(A)
66	Bromoform	173	8.916	8.916	(1.090)	223996	200.000	205.17(A)
67	Isopropylbenzene	105	9.062	9.062	(1.108)	1367969	200.000	220.07(A)
68	1,1,2,2-Tetrachloroethane	83	9.328	9.328	(0.917)	431182	200.000	200.33(A)
$ 69	4-Bromofluorobenzene	95	9.190	9.190	(1.123)	423545	200.000	190.99
* 70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	162721	50.0000	
71	1,2,3-Trichloropropane	75	9.362	9.362	(0.921)	460553	200.000	203.65(A)
72	trans-1,4-Dichloro-2-butene	53	9.373	9.373	(1.146)	93721	200.000	195.65
73	n-Propylbenzene	91	9.411	9.411	(0.926)	1565829	200.000	211.67(A)
74	Bromobenzene	156	9.317	9.317	(0.916)	372976	200.000	201.07(A)
75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	1108013	200.000	227.47(A)
76	2-Chlorotoluene	91	9.482	9.482	(0.933)	942887	200.000	196.56

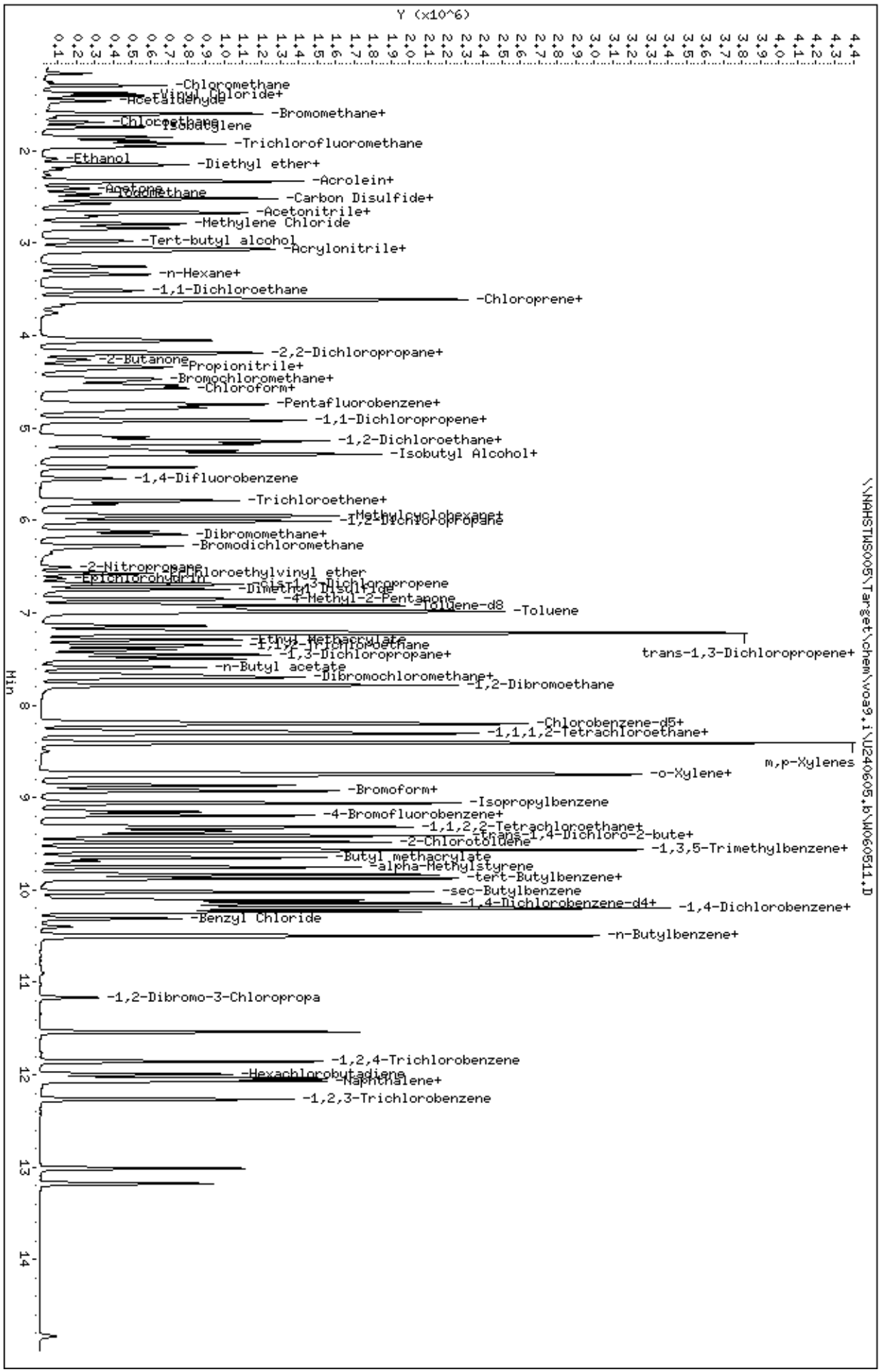
77	4-Chlorotoluene	91	9.572	9.572 (0.941)	1102750	200.000	199.62
78	tert-Butylbenzene	119	9.834	9.834 (0.967)	949398	200.000	213.30(A)

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060511.D Page 3
Report Date: 21-Jun-2024 17:12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	1104387	200.000	219.20(A)
81	sec-Butylbenzene	105	10.022	10.022	(0.986)	1311665	200.000	222.90(A)
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	1150930	200.000	230.26(A)
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	643564	200.000	188.03
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	675420	200.000	199.65
86	Benzyl Chloride	91	10.311	10.311	(1.260)	479644	200.000	198.53
87	n-Butylbenzene	91	10.490	10.490	(1.032)	1027127	200.000	199.73
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	640427	200.000	199.53
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	63420	200.000	198.79
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	444784	200.000	200.89(A)
91	Hexachlorobutadiene	225	11.997	11.997	(1.180)	193760	200.000	208.03(A)
92	Naphthalene	128	12.065	12.065	(1.187)	1062354	200.000	201.17(A)
93	1,2,3-Trichlorobenzene	180	12.267	12.267	(1.206)	403090	200.000	214.97(A)
146	Methyl acetate	43	2.712	2.712	(0.563)	326381	200.000	198.79
138	Freon TF	101	2.330	2.330	(0.484)	242521	200.000	212.33(A)
141	Cyclohexane	56	4.781	4.781	(0.993)	417740	200.000	199.60
142	Tetrahydrofuran	42	4.541	4.541	(0.943)	118208	400.000	397.01
147	Methylcyclohexane	55	5.943	5.943	(1.071)	832663	200.000	215.93(A)
135	1,4-Dioxane	88	6.164	6.164	(1.280)	70775	4000.00	3985.02
132	n-Butanol	56	5.823	5.823	(1.209)	214255	4000.00	4092.65(A)
136	n-Hexane	57	3.338	3.338	(0.693)	291830	200.000	197.27
139	Diethyl ether	59	2.142	2.142	(0.445)	230475	200.000	200.79(A)
148	Tert-butyl alcohol	59	2.974	2.974	(0.618)	581208	4000.00	4048.54(A)
149	Isopropyl alcohol	45	2.569	2.569	(0.534)	464562	4000.00	4031.79(A)
156	Diisopropyl ether	45	3.619	3.619	(0.752)	1061760	200.000	201.43(A)
162	Butyl acrylate	55	8.729	8.729	(1.067)	724445	200.000	240.43(A)
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	1582575	200.000	201.58(A)
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	1038910	200.000	200.30(A)
167	Ethanol	45	2.086	2.086	(0.433)	85510	4000.00	4185.56(A)
172	tert-Butyl formate	59	5.246	5.246	(1.090)	628535	400.000	452.52(A)
151	4-Methyl-2-pentanol	45	7.218	7.218	(1.301)	2197622	4000.00	4079.36(A)
140	1,3-Butadiene	54	1.400	1.400	(0.291)	155339	200.000	199.28
182	Epichlorohydrin	57	6.629	6.629	(1.195)	92526	800.000	740.88
M 94	1,2-Dichloroethylene (total)	96				630036	400.000	(a)
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	469291	200.000	236.86(A)
130	Ethyl Acetate	43	4.538	4.538	(0.942)	119573	200.000	199.48(T)
131	Methyl Acrylate	55	4.369	4.369	(0.907)	385399	200.000	201.64(A)
189	n-Butyl acetate	43	7.589	7.589	(0.928)	516846	200.000	226.41(TA)
134	Cyclohexanone	55	9.152	9.152	(0.900)	325494	4000.00	3994.44
185	Isoprene	39	2.153	2.153	(0.447)	78886	200.000	202.45(A)
188	Isopropyl acetate	43	5.284	5.284	(0.952)	1008682	200.000	199.92
150	Allyl alcohol	57	3.338	3.338	(0.693)	291830	4000.00	3945.40
194	Acetaldehyde	44	1.460	1.460	(0.303)	285245	800.000	816.35(AM)
202	Isobutylene	41	1.741	1.741	(0.362)	158283	200.000	208.11(AM)
133	Ethyl Acrylate	55	5.943	5.943	(1.234)	832663	200.000	211.95(A)
163	Butyl methacrylate	41	9.647	9.647	(0.949)	396264	200.000	199.55
159	Propylene oxide	43	2.198	2.198	(0.457)	50174	400.000	384.59(A)
178	Ethylene oxide	44	1.599	1.599	(0.332)	796045	400.000	399.04
203	2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	482819	200.000	175.12
204	Tetrahydrothiophene	60	7.668	7.668	(0.937)	303778	200.000	209.95(A)
205	sec-Butyl Ether	57	7.218	7.218	(0.882)	745434	200.000	199.44(AM)
187	n-Amyl acetate	43	8.927	8.927	(1.091)	634119	200.000	223.13(AM)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.



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Sample Info: VSTD200;VSTD200;1;10
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Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

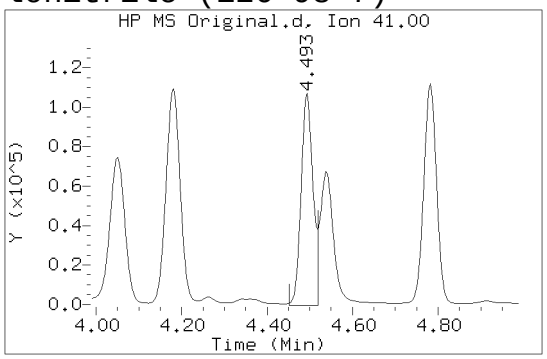
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Inj Date : 05-JUN-2024 22:12
InstruID : VOA9.i
LabSampID : VSTD200

Methacrylonitrile (126-98-7)

Reason Code:

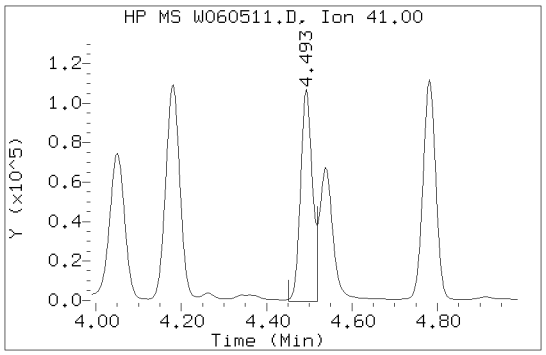
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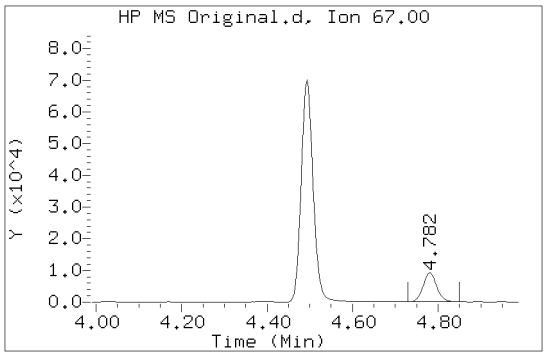
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HEIGHT
107787
21-Jun-2024
17:11
RUCHA
PATEL



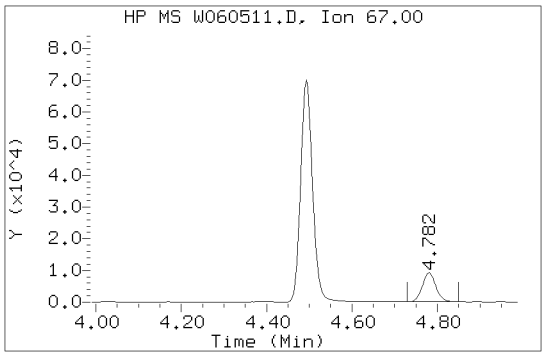
BEFORE

MASS
67
AREA
20135
HEIGHT
9126
21-Jun-2024
17:11
RUCHA
PATEL



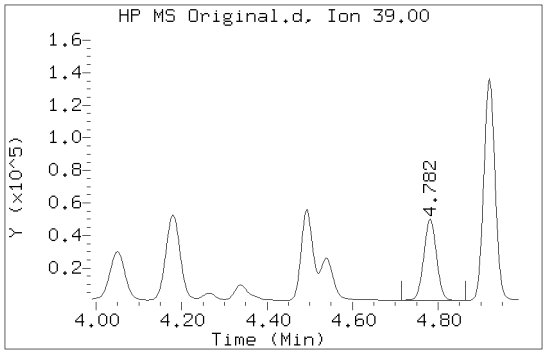
AFTER

MASS
67
AREA
20135
HEIGHT
9126
21-Jun-2024
17:11
RUCHA
PATEL



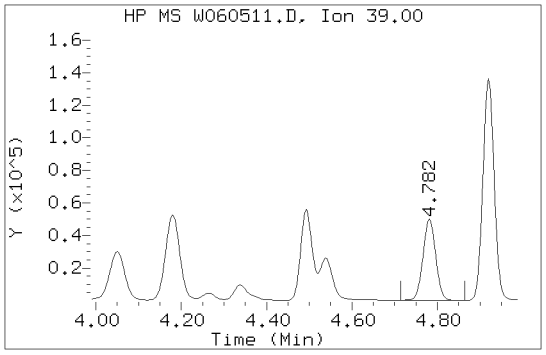
BEFORE

MASS
39
AREA
103291
HEIGHT
50039
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
39
AREA
103291
HEIGHT
50039
21-Jun-2024
17:11
RUCHA
PATEL

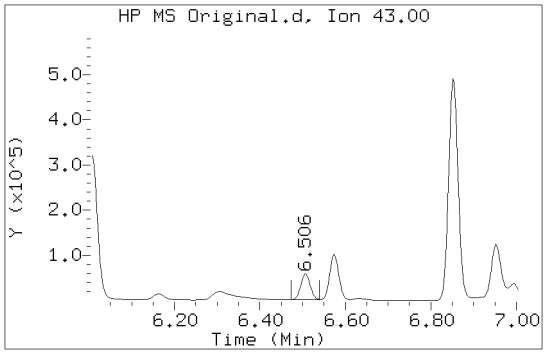


2-Nitropropane (79-46-9)

Reason Code:

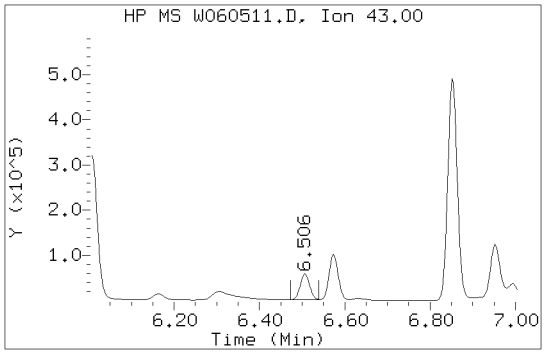
BEFORE

MASS
43
AREA
90419
HEIGHT
58439
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
43
AREA
90419
HEIGHT
58439
21-Jun-2024
17:11
RUCHA
PATEL



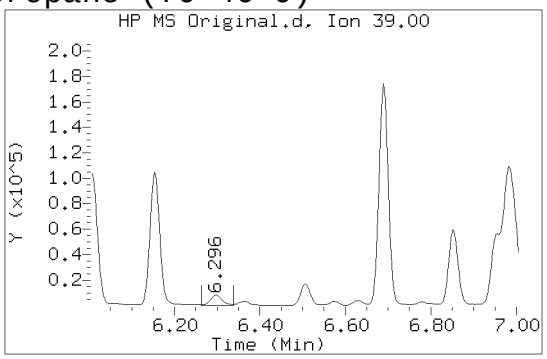
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060511.D
Inj Date : 05-JUN-2024 22:12
InstruID : VOA9.i
LabSampID : VSTD200

2-Nitropropane (79-46-9)

Reason Code:

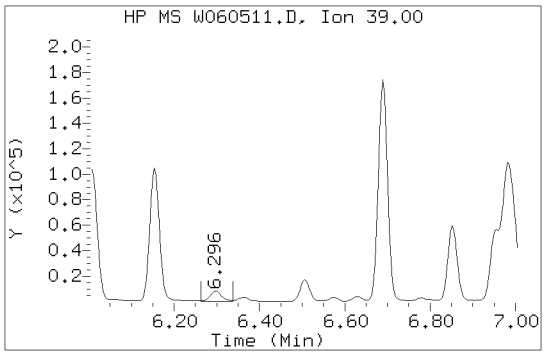
BEFORE

MASS
39
AREA
14579
HEIGHT
7886
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
39
AREA
14579
HEIGHT
7886
21-Jun-2024
17:11
RUCHA
PATEL

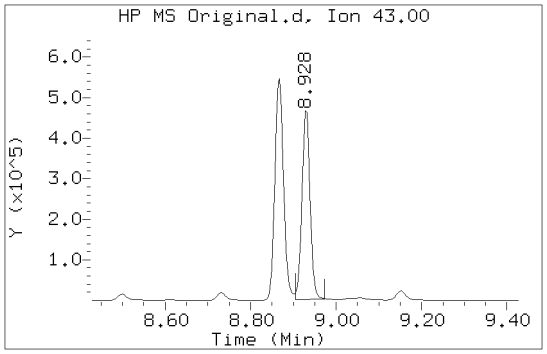


n-Amyl acetate (628-63-7)

Reason Code:

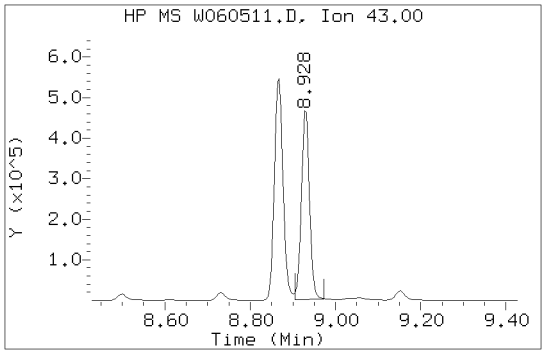
BEFORE

MASS
43
AREA
634119
HEIGHT
465302
21-Jun-2024
17:11
RUCHA
PATEL



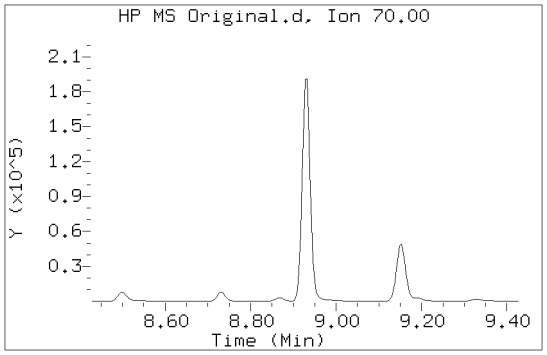
AFTER

MASS
43
AREA
634119
HEIGHT
465302
21-Jun-2024
17:11
RUCHA
PATEL



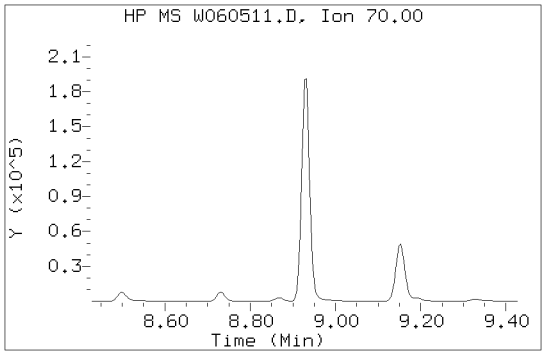
BEFORE

MASS
70
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



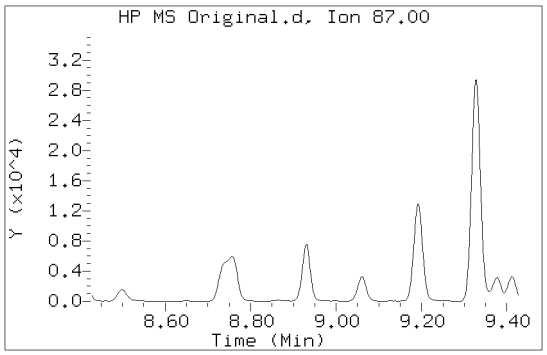
AFTER

MASS
70
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



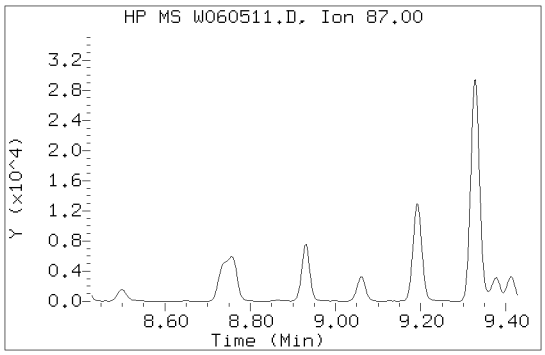
BEFORE

MASS
87
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
87
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



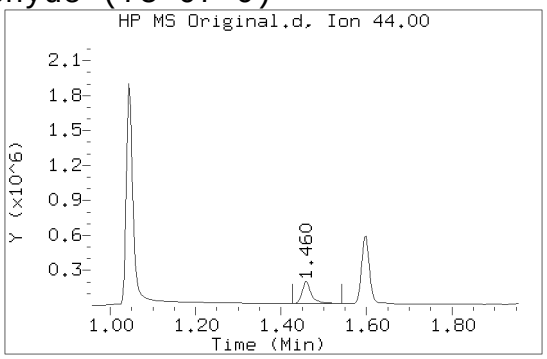
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060511.D
Inj Date : 05-JUN-2024 22:12
InstruID : VOA9.i
LabSampID : VSTD200

Acetaldehyde (75-07-0)

Reason Code:

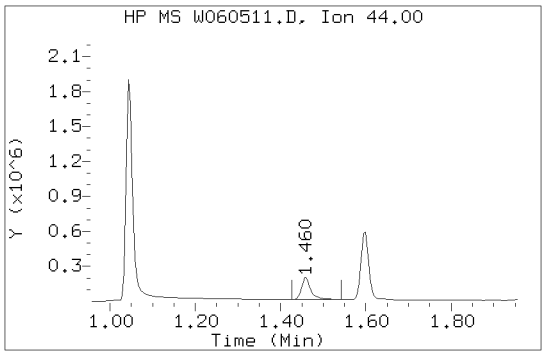
BEFORE

MASS
44
AREA
285245
HEIGHT
188568
21-Jun-2024
17:11
RUCHA
PATEL



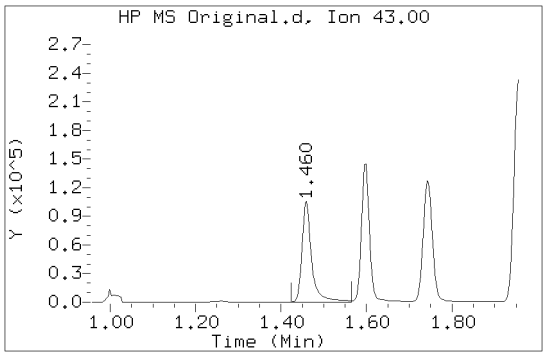
AFTER

MASS
44
AREA
285245
HEIGHT
188568
21-Jun-2024
17:11
RUCHA
PATEL



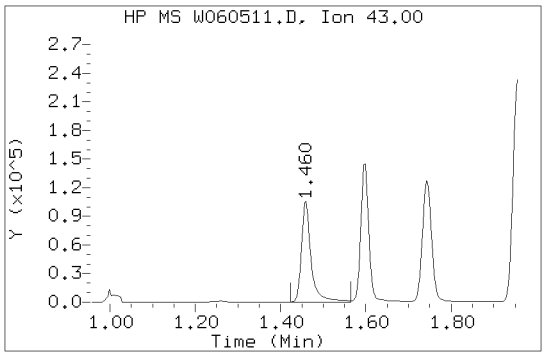
BEFORE

MASS
43
AREA
172294
HEIGHT
105936
21-Jun-2024
17:11
RUCHA
PATEL



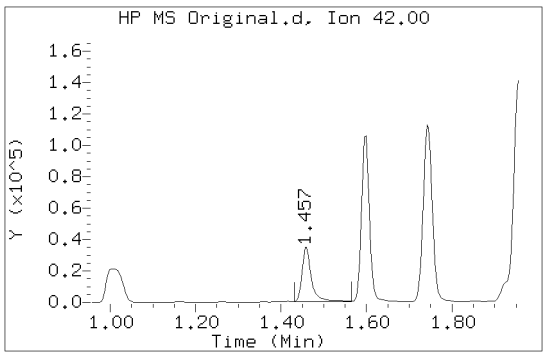
AFTER

MASS
43
AREA
172294
HEIGHT
105936
21-Jun-2024
17:11
RUCHA
PATEL



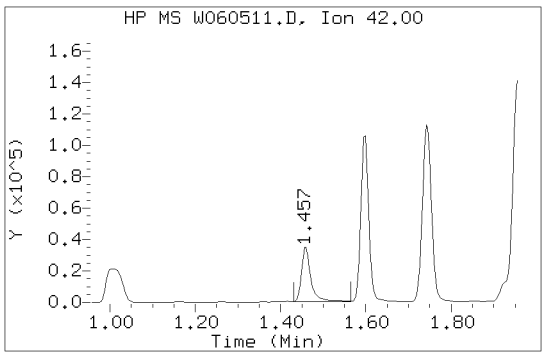
BEFORE

MASS
42
AREA
54743
HEIGHT
34621
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
42
AREA
54743
HEIGHT
34621
21-Jun-2024
17:11
RUCHA
PATEL

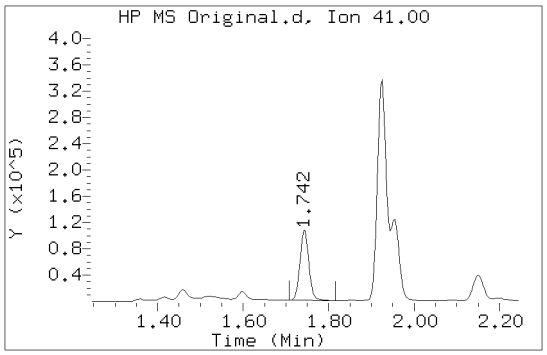


Isobutylene (115-11-7)

Reason Code:

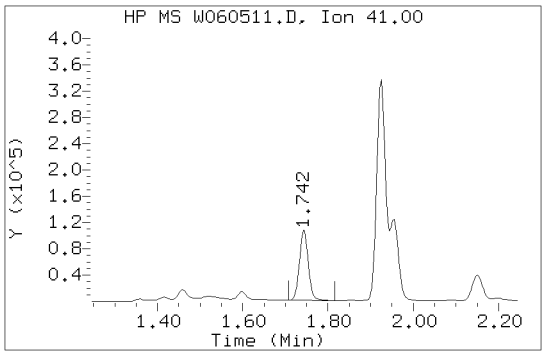
BEFORE

MASS
41
AREA
158283
HEIGHT
106373
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
41
AREA
158283
HEIGHT
106373
21-Jun-2024
17:11
RUCHA
PATEL



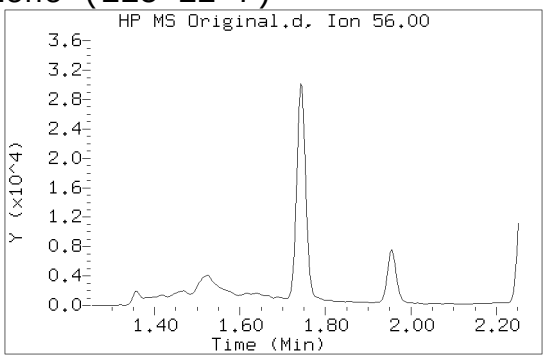
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060511.D
Inj Date : 05-JUN-2024 22:12
InstruID : VOA9.i
LabSampID : VSTD200

Isobutylene (115-11-7)

Reason Code:

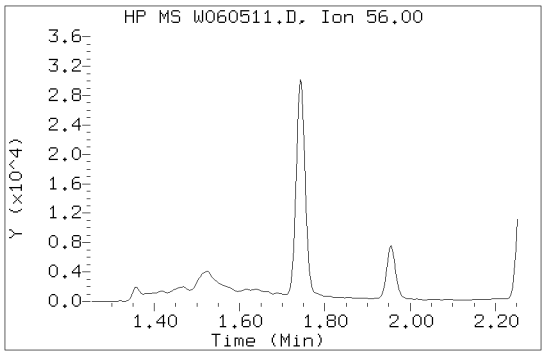
BEFORE

MASS
56
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



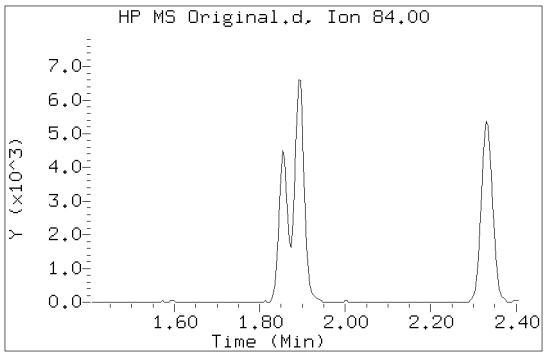
AFTER

MASS
56
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



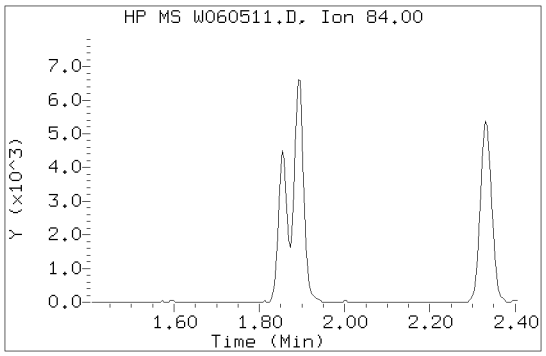
BEFORE

MASS
84
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
84
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

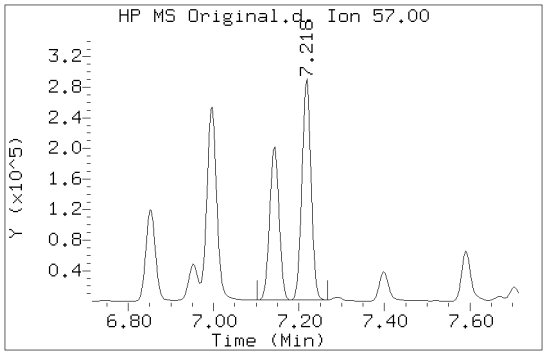


sec-Butyl Ether (6863-58-7)

Reason Code:

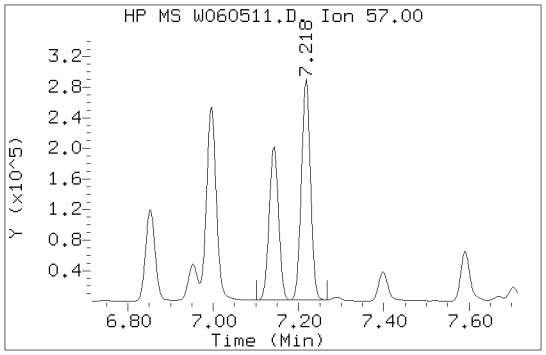
BEFORE

MASS
57
AREA
745434
HEIGHT
289034
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
57
AREA
745434
HEIGHT
289034
21-Jun-2024
17:11
RUCHA
PATEL



Data File: \\nahstws005\Target\chem\voa9.i\U240605.b\W060513.D Page 1
Report Date: 06-Jun-2024 09:23

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240605.b\W060513.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 05-JUN-2024 22:55
Operator : TS Inst ID: VOA9.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V9;WATER;0;1;
Comment :
Method : \\nahstws005\Target\chem\voa9.i\U240605.b\bfb.m
Meth Date : 27-Jan-2023 08:08 apoluri Quant Type: ISTD
Cal Date : 30-MAR-2018 18:09 Cal File: U033003.d
Als bottle: 15 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAHSTW7066

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	2.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/l)	TARGET RANGE	RATIO
RT	EXP RT	REL RT	MASS	RESPONSE				
1 bfb							CAS #: 460-00-4	
9.194	9.180	(0.000)	95	63184			0.00- 100.00	100.00
9.194	9.180	(0.000)	50	12615			15.00- 40.00	19.97
9.194	9.180	(0.000)	75	32128			30.00- 60.00	50.85
9.194	9.180	(0.000)	96	4258			5.00- 9.00	6.74
9.194	9.180	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
9.194	9.180	(0.000)	174	52920			50.00- 0.00	83.76
9.194	9.180	(0.000)	175	4655			5.00- 9.00	8.80
9.194	9.180	(0.000)	176	50952			95.00- 101.00	96.28
9.194	9.180	(0.000)	177	3663			5.00- 9.00	7.19

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.97
75	30.00 - 60.00% of mass 95	50.85
96	5.00 - 9.00% of mass 95	6.74
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	83.76
175	5.00 - 9.00% of mass 174	7.37 (8.80)
176	95.00 - 101.00% of mass 174	80.64 (96.28)
177	5.00 - 9.00% of mass 176	5.80 (7.19)

Data File: W060513.D
Spectrum: Scan 2293 (9.19)
Location of Maximum: 95.00
Number of points: 91

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	613	62.00	3058	92.00	1798	136.80	122
37.00	3534	63.00	2210	93.00	2781	138.90	57
38.00	3181	63.90	282	94.00	7778	140.90	693
39.00	1197	65.00	230	95.00	63184	142.00	67
39.90	184	67.20	227	96.00	4258	142.80	512
43.00	81	68.00	6581	97.00	143	144.90	81
44.00	628	69.00	6824	103.00	56	145.90	123
45.00	664	70.00	481	103.80	329	147.80	116
46.20	81	72.10	364	104.90	116	149.90	79
47.00	1040	73.00	3062	105.90	231	153.00	63
47.90	457	74.00	10791	106.90	57	154.30	54
49.00	2550	75.00	32128	110.70	60	154.80	150
50.00	12615	76.00	2866	111.90	51	156.70	122
51.00	4062	77.00	457	114.80	74	158.80	85
52.10	206	78.00	285	115.80	202	161.00	96
52.80	56	78.90	1689	116.90	453	171.00	93
55.00	180	79.90	590	117.90	209	171.90	382
56.00	991	80.90	1846	118.80	358	173.90	52920
57.00	1852	81.90	342	127.80	209	175.00	4655
57.90	157	85.80	95	128.90	125	175.90	50952
58.70	51	86.90	3018	129.90	233	176.90	3663
60.00	703	87.90	3017	130.90	107	177.90	87
61.00	3174	91.00	287	134.90	130		

Data File: \\nahstws005\Target\chem\voa9.i\U240605.b\W060513.D Page 1

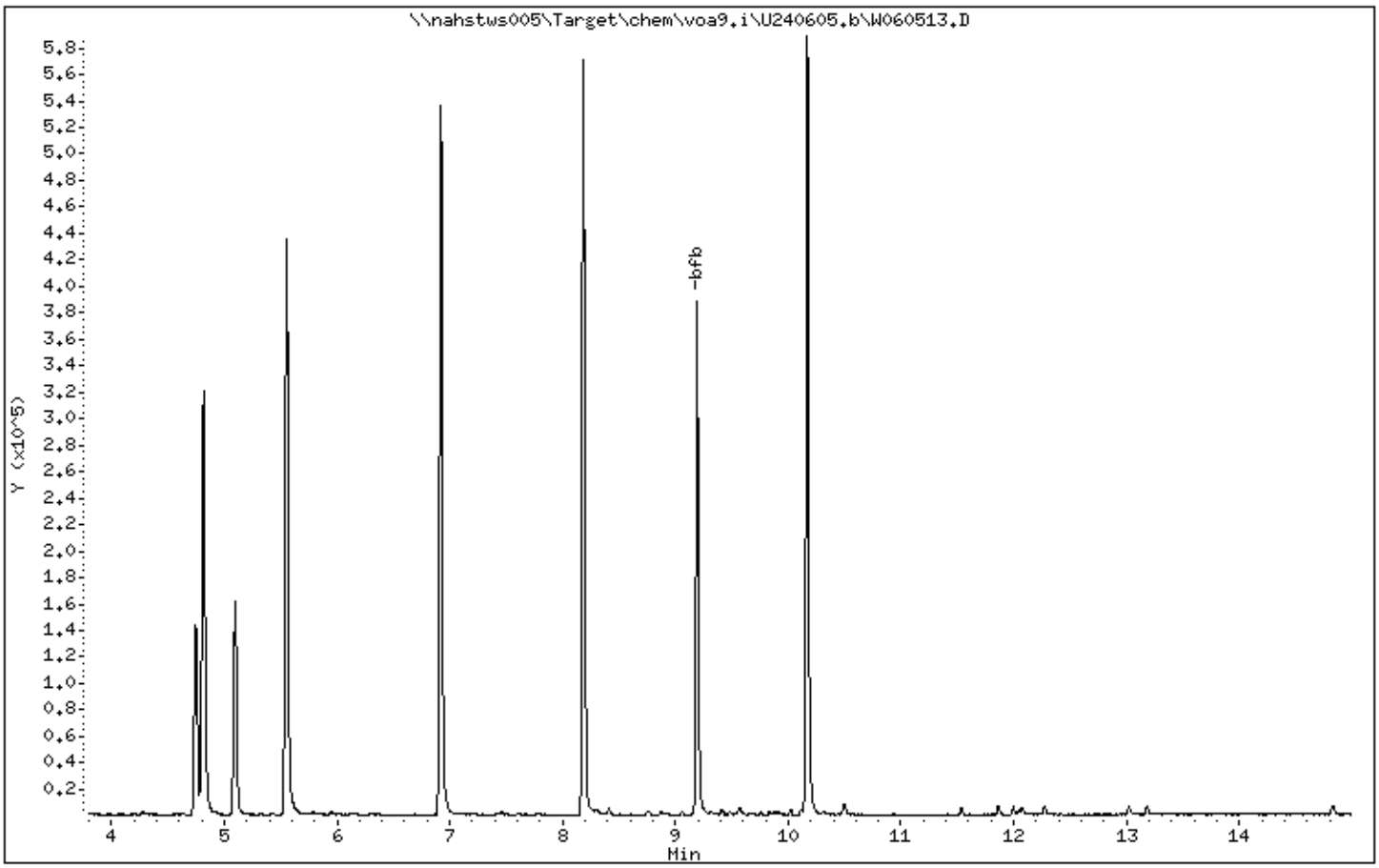
Date : 05-JUN-2024 22:55

Client ID: BFB Instrument: VOA9.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: TS

Column phase: DB624 Column diameter: 0.25



Data File: \\nahstws005\Target\chem\voa9.i\U240605.b\W060513.D Page 2

Date : 05-JUN-2024 22:55

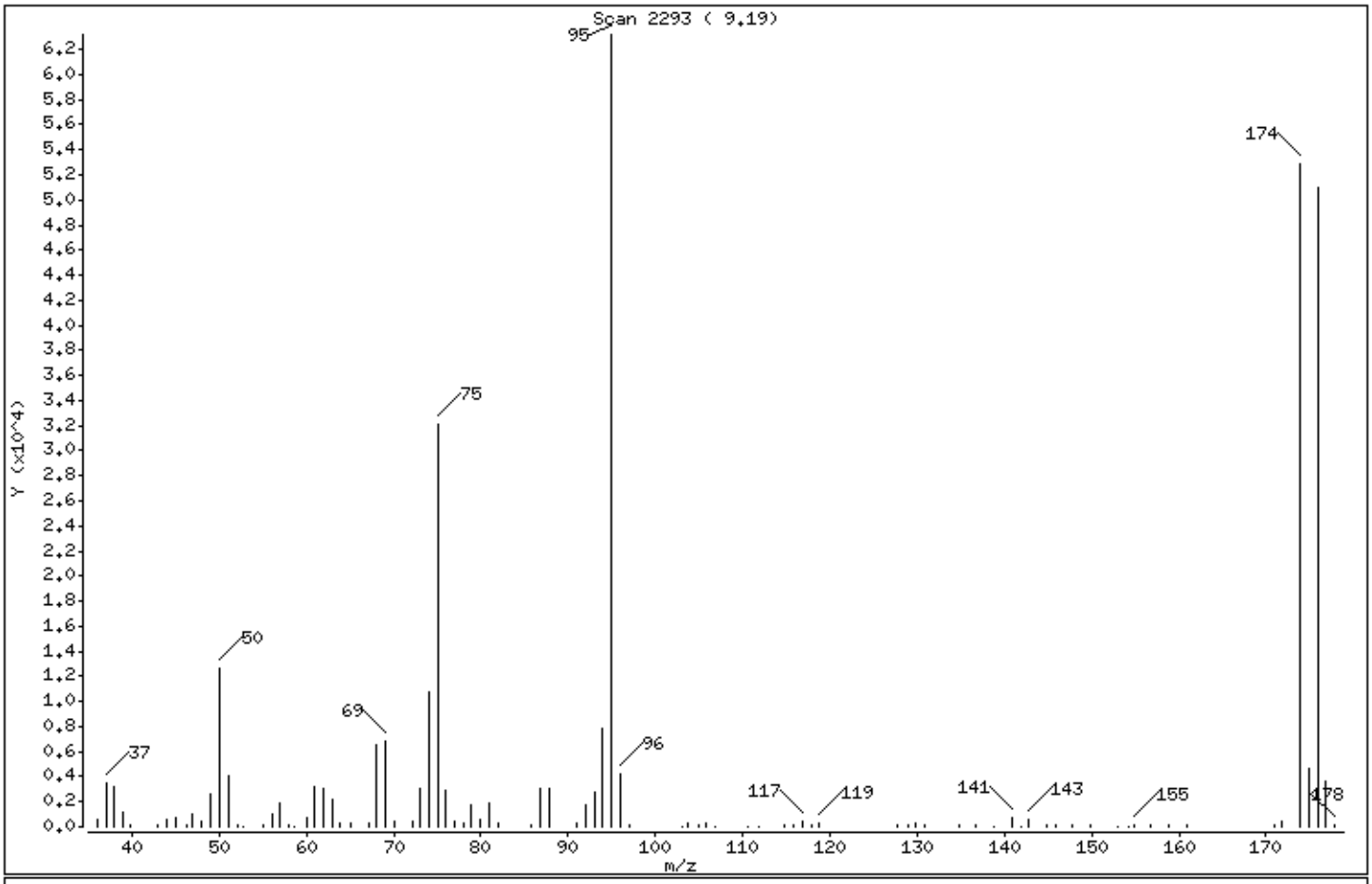
Client ID: BFB Instrument: VOA9.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: TS

Column phase: DB624 Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.97
75	30.00 - 60.00% of mass 95	50.85
96	5.00 - 9.00% of mass 95	6.74
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	83.76
175	5.00 - 9.00% of mass 174	7.37 (8.80)
176	95.00 - 101.00% of mass 174	80.64 (96.28)
177	5.00 - 9.00% of mass 176	5.80 (7.19)

Data File: \\nahstws005\Target\chem\voa9.i\U240605.b\W060513.D Page 3

Date : 05-JUN-2024 22:55

Client ID: BFB Instrument: VOA9.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: TS

Column phase: DB624 Column diameter: 0.25

Data File: W060513.D
Spectrum: Scan 2293 (9.19)
Location of Maximum: 95.00
Number of points: 91

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	613	62.00	3058	92.00	1798	136.80	122
37.00	3534	63.00	2210	93.00	2781	138.90	57
38.00	3181	63.90	282	94.00	7778	140.90	693
39.00	1197	65.00	230	95.00	63184	142.00	67
39.90	184	67.20	227	96.00	4258	142.80	512
43.00	81	68.00	6581	97.00	143	144.90	81
44.00	628	69.00	6824	103.00	56	145.90	123
45.00	664	70.00	481	103.80	329	147.80	116
46.20	81	72.10	364	104.90	116	149.90	79
47.00	1040	73.00	3062	105.90	231	153.00	63
47.90	457	74.00	10791	106.90	57	154.30	54
49.00	2550	75.00	32128	110.70	60	154.80	150
50.00	12615	76.00	2866	111.90	51	156.70	122
51.00	4062	77.00	457	114.80	74	158.80	85
52.10	206	78.00	285	115.80	202	161.00	96
52.80	56	78.90	1689	116.90	453	171.00	93
55.00	180	79.90	590	117.90	209	171.90	382
56.00	991	80.90	1846	118.80	358	173.90	52920
57.00	1852	81.90	342	127.80	209	175.00	4655
57.90	157	85.80	95	128.90	125	175.90	50952
58.70	51	86.90	3018	129.90	233	176.90	3663
60.00	703	87.90	3017	130.90	107	177.90	87
61.00	3174	91.00	287	134.90	130		

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060514A.D Page 1
Report Date: 21-Jun-2024 17:35

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060514A.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 05-JUN-2024 23:38
Operator : TS Inst ID: VOA9.i
Smp Info : VSTD050;VSTD050;2;;ICV
Misc Info : V9;WATER;0;1;
Comment :
Method : \\nahstws005\Target\chem\voa9.i\U240605.b\8260C.m
Meth Date : 21-Jun-2024 17:31 r.patel Quant Type: ISTD
Cal Date : 05-JUN-2024 22:12 Cal File: W060511.D
Als bottle: 16 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.811	4.811	(1.000)	228419	50.0000	
2 Dichlorodifluoromethane	85	1.160	1.160	(0.241)	31626	44.6835	44.68
3 Chloromethane	50	1.291	1.291	(0.268)	118211	44.4405	44.44
4 Propionitrile	54	4.332	4.332	(0.900)	107451	485.496	485.49
5 Vinyl Chloride	62	1.370	1.370	(0.285)	69716	44.9462	44.94
6 Bromomethane	94	1.610	1.610	(0.335)	37936	54.0625	54.06
7 Chloroethane	64	1.693	1.693	(0.352)	53509	47.6944	47.69
8 Trichlorofluoromethane	101	1.887	1.887	(0.392)	92857	46.4269	46.42
9 Acrolein	56	2.259	2.259	(0.469)	8701	116.991	116.99
10 Acetone	43	2.401	2.401	(0.499)	65359	107.861	107.86
11 1,1-Dichloroethene	96	2.326	2.326	(0.483)	58978	45.0200	45.02
12 Isobutyl Alcohol	43	5.280	5.280	(1.097)	229371	944.166	944.16
13 Acetonitrile	39	2.663	2.663	(0.554)	85247	451.430	451.42
14 Allyl Chloride	41	2.667	2.667	(0.554)	198055	46.2451	46.24
15 Iodomethane	142	2.461	2.461	(0.512)	55906	159.565	159.56(R)
16 Acrylonitrile	53	3.061	3.061	(0.636)	54820	95.5499	95.54
17 Methylene Chloride	84	2.787	2.787	(0.579)	74947	47.4672	47.46
18 Methyl tert-butyl ether	73	3.076	3.076	(0.639)	188658	48.4963	48.49
19 Carbon Disulfide	76	2.513	2.513	(0.522)	336625	89.6546	89.65
20 trans-1,2-Dichloroethene	96	3.053	3.053	(0.635)	65537	46.7348	46.73

21 Vinyl Acetate	43	4.335	4.335 (0.901)	85411	95.7131	95.71
22 1,1-Dichloroethane	63	3.507	3.507 (0.729)	128585	46.8234	46.82

			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)
	23	Chloroprene	53	3.604	3.604	(0.749)	106285	45.6419	45.64
	24	2-Butanone	43	4.260	4.260	(0.885)	83330	98.9454	98.94
	25	Methacrylonitrile	41	4.489	4.489	(0.933)	45265	44.9519	44.95(a)
	26	2,2-Dichloropropane	77	4.178	4.178	(0.868)	84857	43.6589	43.65
	27	cis-1,2-Dichloroethene	96	4.189	4.189	(0.871)	79256	47.0292	47.02
	28	Chloroform	83	4.568	4.568	(0.949)	131157	43.5668	43.56
	29	Bromochloromethane	128	4.463	4.463	(0.928)	40306	49.0446	49.04
$	30	Dibromofluoromethane	113	4.744	4.744	(0.986)	72535	44.0558	44.05
	31	1,1,1-Trichloroethane	97	4.736	4.736	(0.984)	101870	47.1275	47.12
	32	1,1-Dichloropropene	75	4.916	4.916	(0.886)	96086	44.5131	44.51
	33	1,2-Dichloroethane	62	5.171	5.171	(0.932)	110560	47.8501	47.85
	34	Carbon Tetrachloride	117	4.905	4.905	(0.884)	82548	46.3438	46.34
$	35	1,2-Dichloroethane-d4	65	5.093	5.093	(1.058)	91320	45.4950	45.49
*	36	1,4-Difluorobenzene	114	5.550	5.550	(1.000)	334220	50.0000	
	37	Benzene	78	5.134	5.134	(0.925)	291791	46.0832	46.08
	38	Trichloroethene	130	5.786	5.786	(1.043)	76559	45.9965	45.99
	39	Bromodichloromethane	83	6.273	6.273	(1.130)	89820	45.2942	45.29
	40	Methyl Methacrylate	41	5.820	5.820	(1.210)	31995	46.0616	46.06
	41	2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	38357	93.9890	93.98
	42	1,2-Dichloropropane	63	6.004	6.004	(1.082)	81881	46.2083	46.20
	43	2-Nitropropane	43	6.506	6.506	(1.352)	18585	56.4673	56.46
	44	Dibromomethane	93	6.116	6.116	(1.102)	48157	47.1535	47.15
	45	4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	172323	95.0355	95.03
	46	cis-1,3-Dichloropropene	75	6.686	6.686	(1.205)	113717	44.2255	44.22
*	47	Chlorobenzene-d5	117	8.182	8.182	(1.000)	298689	50.0000	
$	48	Toluene-d8	98	6.918	6.918	(0.846)	266334	44.4018	44.40
	49	Ethyl Methacrylate	69	7.289	7.289	(1.313)	102846	47.5629	47.56
	50	Toluene	91	6.978	6.978	(0.853)	304949	45.7326	45.73
	51	trans-1,3-Dichloropropene	75	7.192	7.192	(1.296)	92803	43.4583	43.45
	52	2-Hexanone	43	7.214	7.214	(0.882)	115636	92.7181	92.71
	53	1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	61103	48.2157	48.21
	54	1,3-Dichloropropane	76	7.495	7.495	(0.916)	132853	48.6872	48.68
	55	Dibromochloromethane	129	7.690	7.690	(0.940)	73258	46.5595	46.55
	56	Tetrachloroethene	164	7.454	7.454	(0.911)	60270	46.5004	46.50
	57	1,2-Dibromoethane	107	7.780	7.780	(0.951)	72148	48.2198	48.21
	58	1-Chlorohexane	55	8.193	8.193	(1.476)	59006	41.8607	41.86
	59	Chlorobenzene	112	8.208	8.208	(1.003)	196375	47.2401	47.24
	60	1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	69302	48.0169	48.01
	61	Ethylbenzene	106	8.305	8.305	(1.015)	100296	47.0994	47.09
	62	m,p-Xylenes	106	8.406	8.406	(1.027)	253936	95.9638	95.96
	63	o-Xylene	106	8.744	8.744	(1.069)	127107	49.6284	49.62
	64	Styrene	104	8.759	8.759	(1.071)	208270	50.2811	50.28
	66	Bromoform	173	8.916	8.916	(1.090)	43410	43.4563	43.45
	67	Isopropylbenzene	105	9.059	9.059	(1.107)	313299	51.5040	51.50
	68	1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	102684	47.9350	47.93
$	69	4-Bromofluorobenzene	95	9.190	9.190	(1.123)	99158	45.6926	45.69
*	70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	161263	50.0000	
	71	1,2,3-Trichloropropane	75	9.359	9.359	(0.920)	100868	45.9955	45.99
	72	trans-1,4-Dichloro-2-butene	53	9.374	9.374	(1.146)	20671	44.6307	44.63
	73	n-Propylbenzene	91	9.411	9.411	(0.926)	362682	49.4730	49.47
	74	Bromobenzene	156	9.314	9.314	(0.916)	87392	47.7681	47.76
	75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	250094	51.8076	51.80

76	2-Chlorotoluene	91	9.479	9.479 (0.932)	222145	46.7303	46.73
77	4-Chlorotoluene	91	9.572	9.572 (0.941)	256810	46.9102	46.91

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060514A.D Page 3
Report Date: 21-Jun-2024 17:35

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	217109	49.2204	49.22
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	254173	50.9067	50.90
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	298422	51.1733	51.17
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	257701	52.0243	52.02
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	150600	44.4008	44.40
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	158770	47.2427	47.24
86	Benzyl Chloride	91	10.307	10.307	(1.260)	78251	41.6391	41.63
87	n-Butylbenzene	91	10.491	10.491	(1.032)	225914	45.6651	45.66
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	150862	47.4130	47.41
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	12760	48.4921	48.49
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	98241	46.1363	46.13
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	42586	46.1362	46.13
92	Naphthalene	128	12.065	12.065	(1.187)	246568	48.5630	48.56
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	91833	49.4188	49.41
146	Methyl acetate	43	2.708	2.708	(0.563)	78973	47.8278	47.82
138	Freon TF	101	2.330	2.330	(0.484)	53225	47.4448	47.44
141	Cyclohexane	56	4.778	4.778	(0.993)	94821	46.3186	46.31
142	Tetrahydrofuran	42	4.538	4.538	(0.943)	26932	91.3568	91.35
147	Methylcyclohexane	55	5.944	5.944	(1.071)	177105	46.0635	46.06
135	1,4-Dioxane	88	6.165	6.165	(1.281)	15945	914.678	914.67
132	n-Butanol	56	5.820	5.820	(1.210)	42778	876.372	876.37
136	n-Hexane	57	3.334	3.334	(0.693)	63447	44.1668	44.16
139	Diethyl ether	59	2.139	2.139	(0.445)	53815	47.6768	47.67
148	Tert-butyl alcohol	59	2.967	2.967	(0.617)	134064	957.494	957.49
149	Isopropyl alcohol	45	2.558	2.558	(0.532)	104013	924.889	924.88
156	Diisopropyl ether	45	3.616	3.616	(0.751)	244287	47.3683	47.36
162	Butyl acrylate	55	8.729	8.729	(1.067)	132887	45.0688	45.06
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	339445	44.3803	44.38
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	238356	47.0540	47.05
167	Ethanol	45	2.079	2.079	(0.432)	18253	901.003	901.00
172	tert-Butyl formate	59	5.239	5.239	(1.089)	134123	98.7424	98.74
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	440911	865.920	865.92
140	1,3-Butadiene	54	1.396	1.396	(0.290)	35874	47.2363	47.23
182	Epichlorohydrin	57	6.630	6.630	(1.195)	18379	200.342	200.34
M 94	1,2-Dichloroethylene (total)	96				144793	85.2775	85.27
M 95	Xylenes (total)	106				381043	144.137	144.13
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	101514	51.7012	51.70
130	Ethyl Acetate	43	4.530	4.530	(0.942)	28690	46.5334	46.53(M)
131	Methyl Acrylate	55	4.365	4.365	(0.907)	87977	47.4396	47.43
189	n-Butyl acetate	43	7.589	7.589	(0.928)	103554	46.3561	46.35(M)
134	Cyclohexanone	55	9.149	9.149	(0.900)	72611	1039.82	1039.81
185	Isoprene	39	2.150	2.150	(0.447)	16927	44.2304	44.23
188	Isopropyl acetate	43	5.280	5.280	(0.951)	230311	48.2549	48.25
150	Allyl alcohol	57	3.334	3.334	(0.693)	63447	883.337	883.33
194	Acetaldehyde	44	1.456	1.456	(0.303)	68825	201.378	201.37(M)
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	49007	53.6718	53.67
202	Isobutylene	41	1.745	1.745	(0.363)	32149	43.0375	43.03(M)
133	Ethyl Acrylate	55	5.944	5.944	(1.235)	177105	45.8988	45.89
163	Butyl methacrylate	41	9.647	9.647	(0.949)	82328	49.4512	49.45
159	Propylene oxide	43	2.195	2.195	(0.456)	12460	97.2392	97.23
178	Ethylene oxide	44	1.599	1.599	(0.332)	292017	98.1936	98.19(M)
203	2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	82530	47.9125	47.91

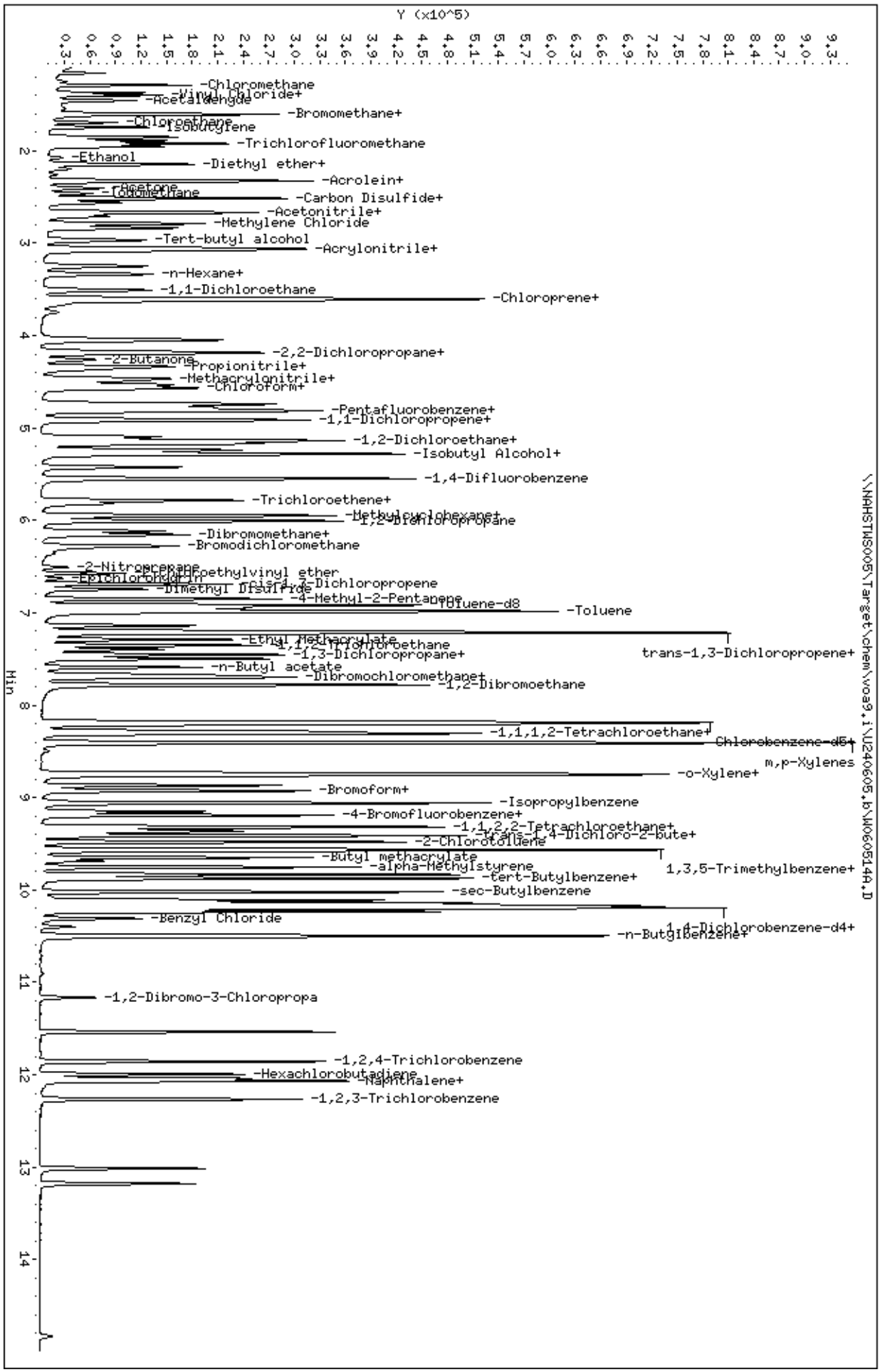
204 Tetrahydrothiophene	60	7.668	7.668 (0.937)	70049	49.4725	49.47(A)
205 sec-Butyl Ether	57	7.214	7.214 (0.882)	152533	41.7028	41.70(AM)

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060514A.D Page 4
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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
187 n-Amyl acetate	43	8.927	8.927	(1.091)	131153	47.1595	47.15(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
    exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060514A.D
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Client ID: VSTD050
Sample Info: VSTD050;VSTD050;2;;ICV
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

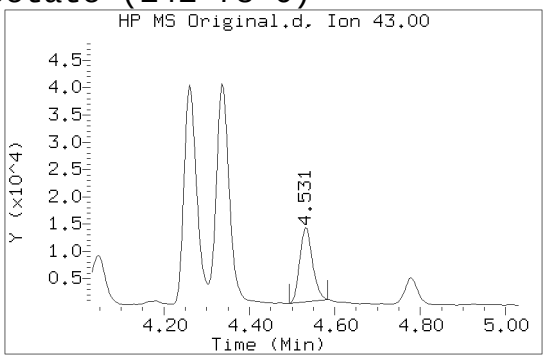
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Inj Date : 05-JUN-2024 23:38
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LabSampID : VSTD050

Ethyl Acetate (141-78-6)

Reason Code:

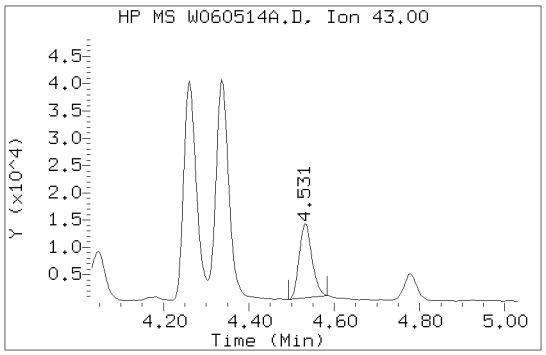
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21-Jun-2024
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PATEL



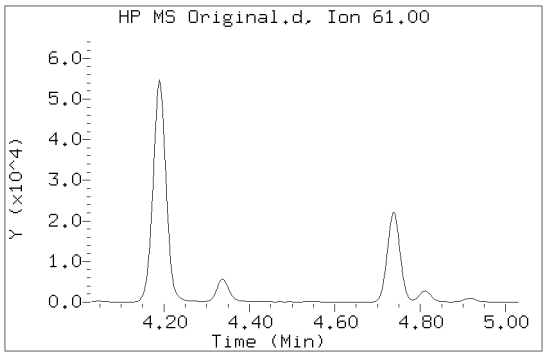
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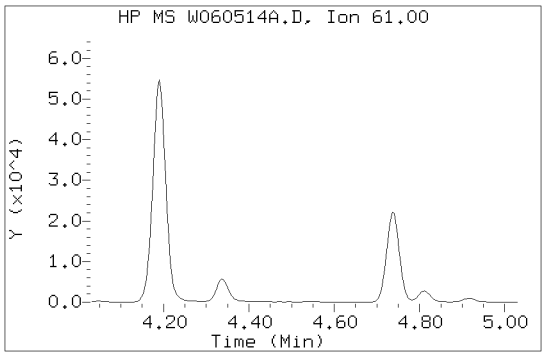
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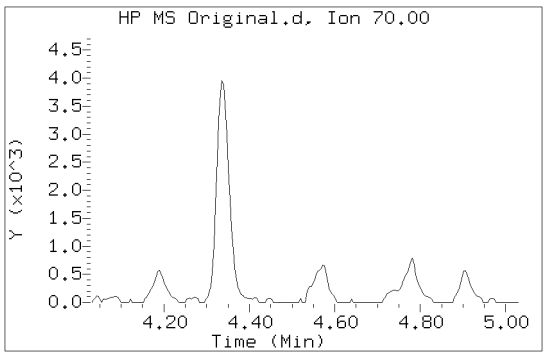
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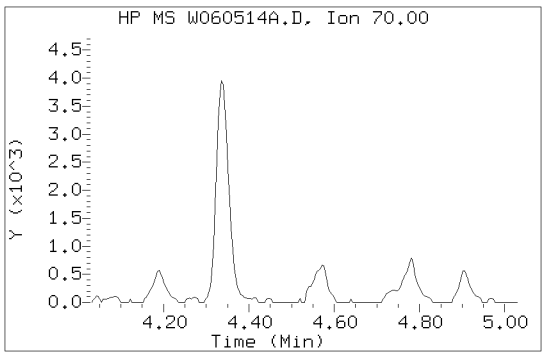
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AFTER

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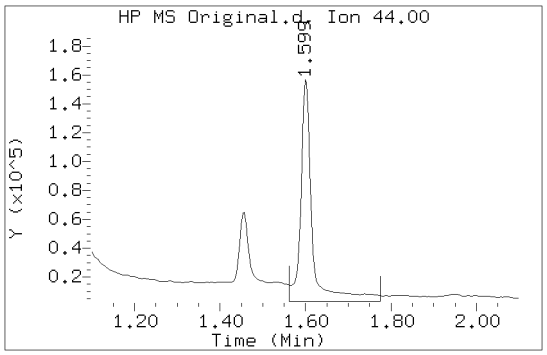


Ethylene oxide (75-21-8)

Reason Code:

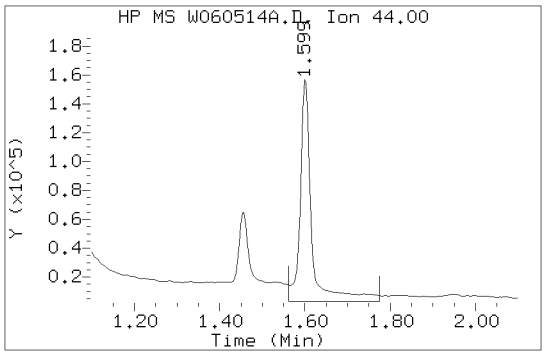
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21-Jun-2024
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PATEL



AFTER

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21-Jun-2024
17:35
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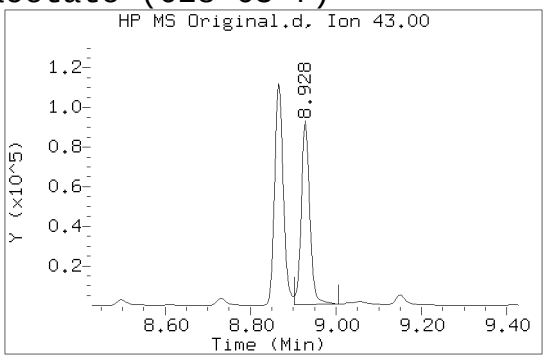
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Inj Date : 05-JUN-2024 23:38
InstruID : VOA9.i
LabSampID : VSTD050

n-Amyl acetate (628-63-7)

Reason Code:

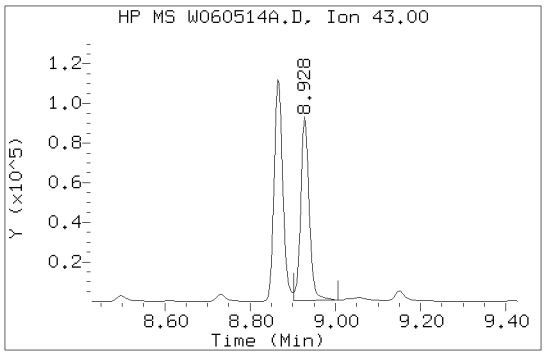
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21-Jun-2024
17:11
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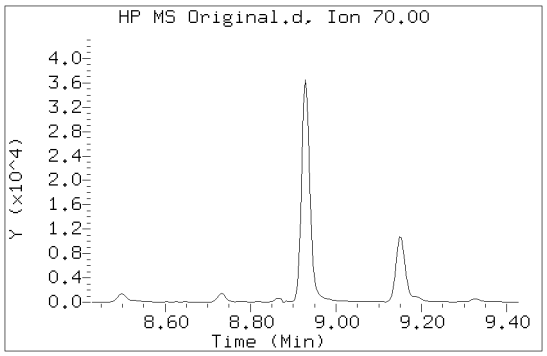
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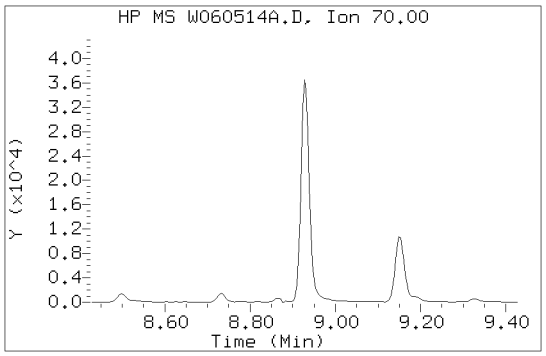
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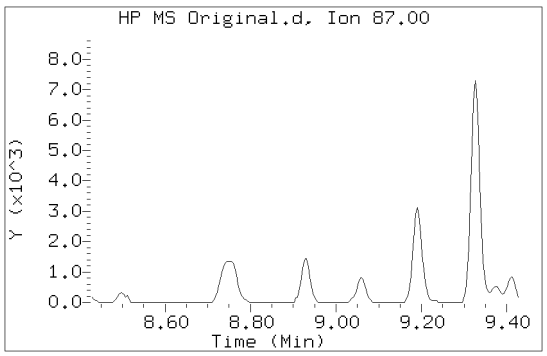
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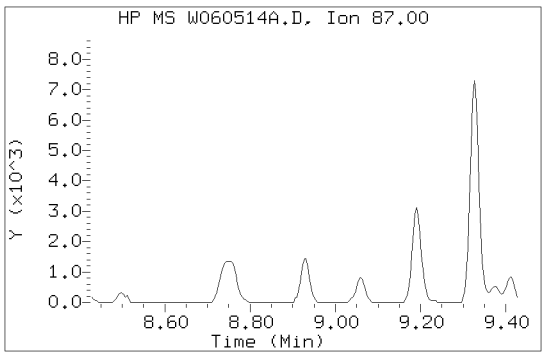
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AFTER

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RUCHA
PATEL

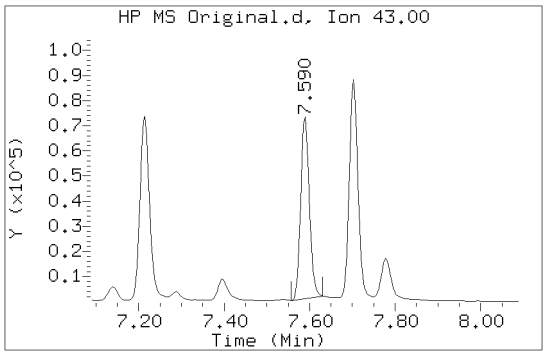


n-Butyl acetate (123-86-4)

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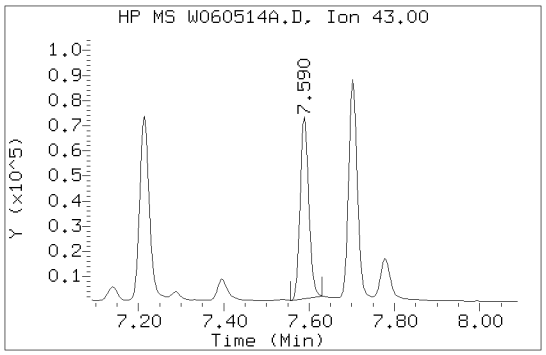
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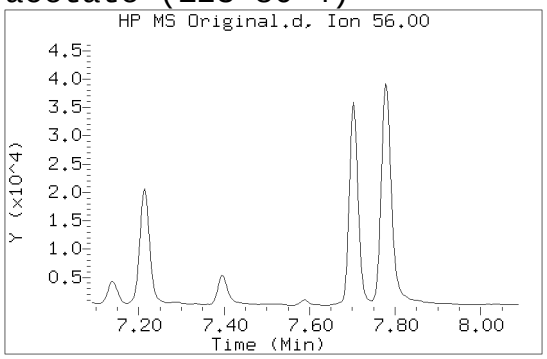
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InstruID : VOA9.i
LabSampID : VSTD050

n-Butyl acetate (123-86-4)

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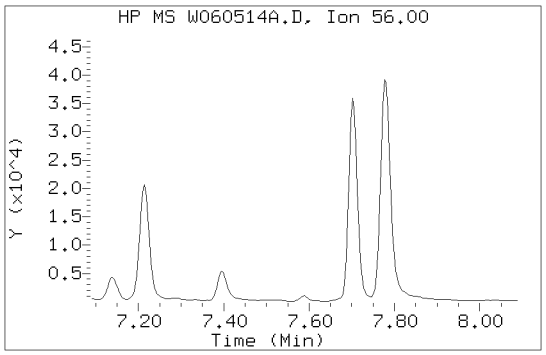
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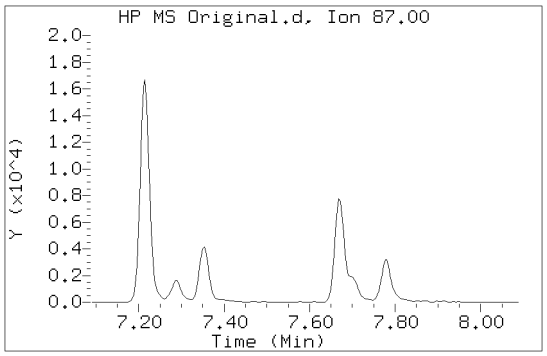
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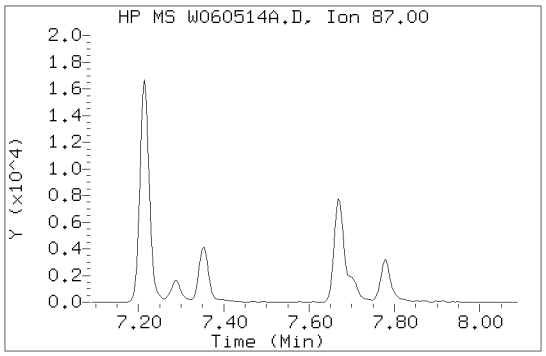
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AFTER

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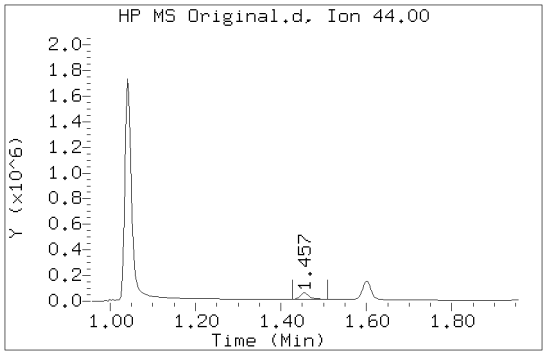


Acetaldehyde (75-07-0)

Reason Code:

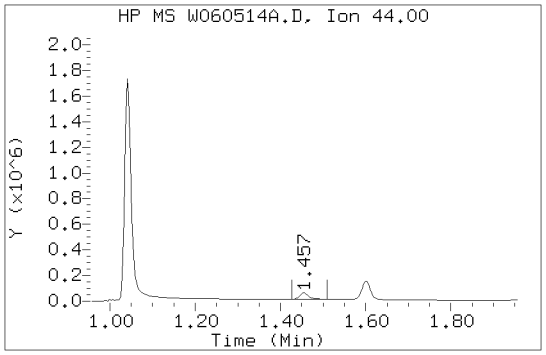
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17:11
RUCHA
PATEL



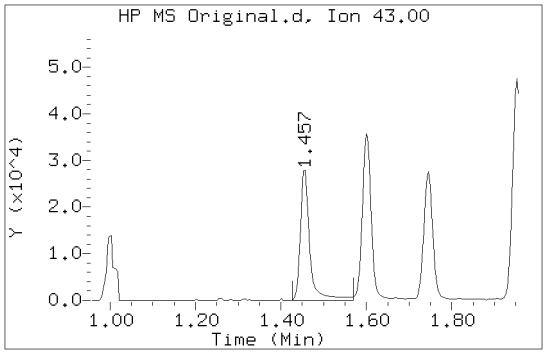
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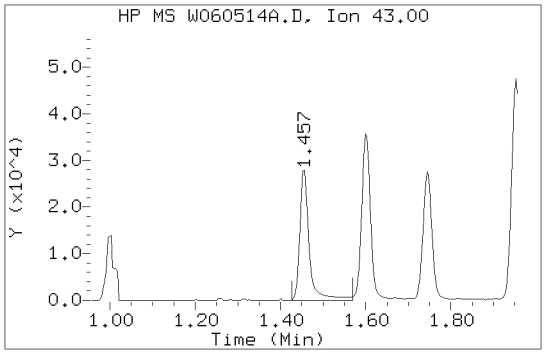
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21-Jun-2024
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AFTER

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17:35
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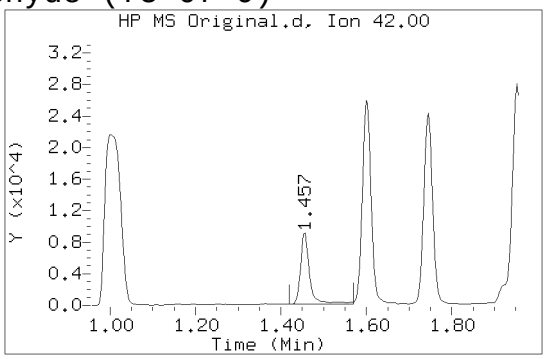
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Inj Date : 05-JUN-2024 23:38
InstruID : VOA9.i
LabSampID : VSTD050

Acetaldehyde (75-07-0)

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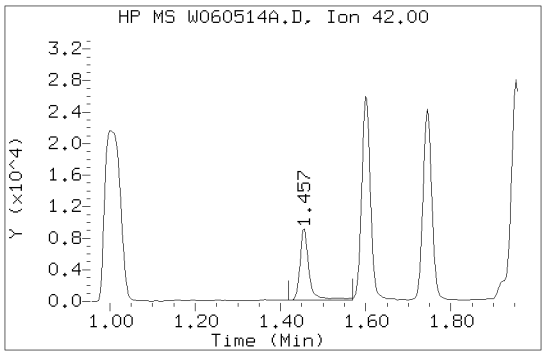
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AFTER

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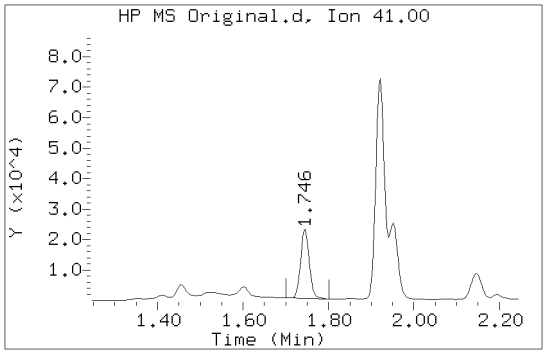


Isobutylene (115-11-7)

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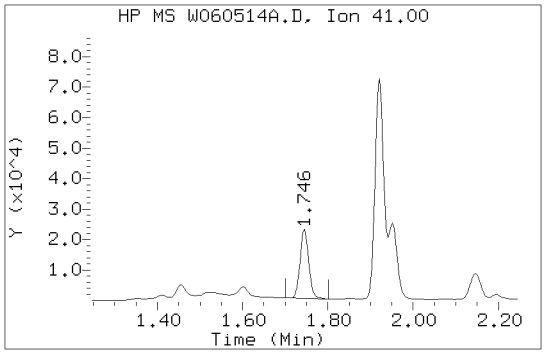
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21-Jun-2024
17:11
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PATEL



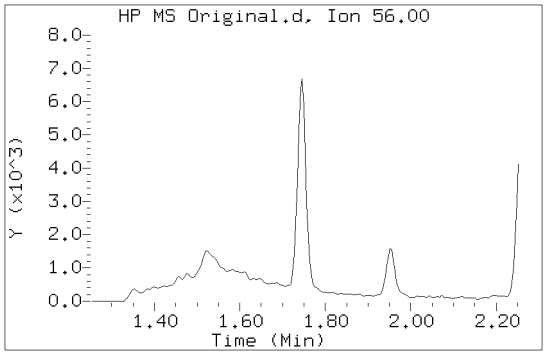
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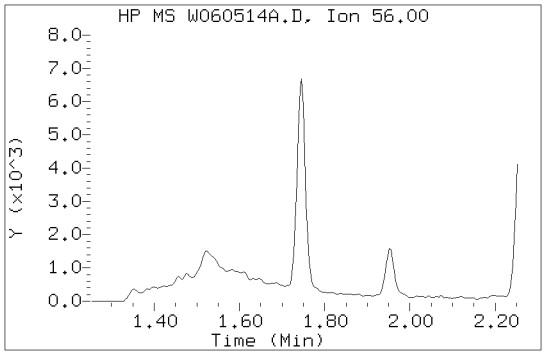
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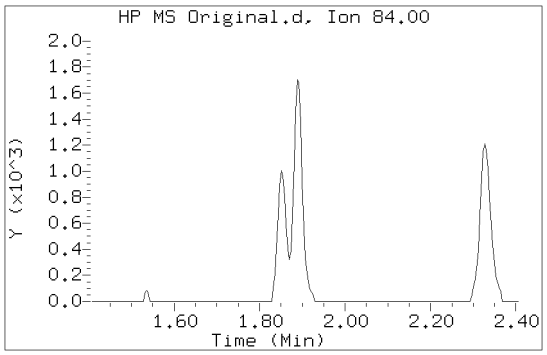
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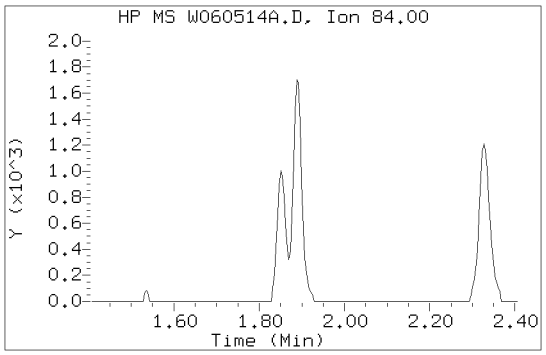
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AFTER

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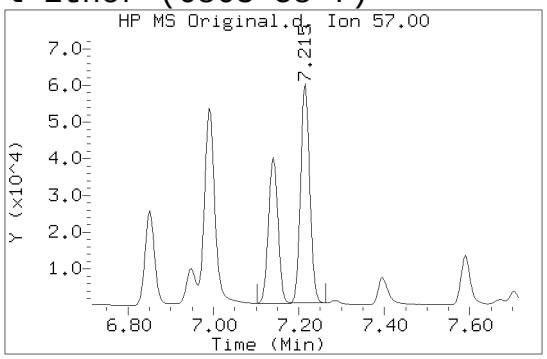
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Inj Date : 05-JUN-2024 23:38
InstruID : VOA9.i
LabSampID : VSTD050

sec-Butyl Ether (6863-58-7)

Reason Code:

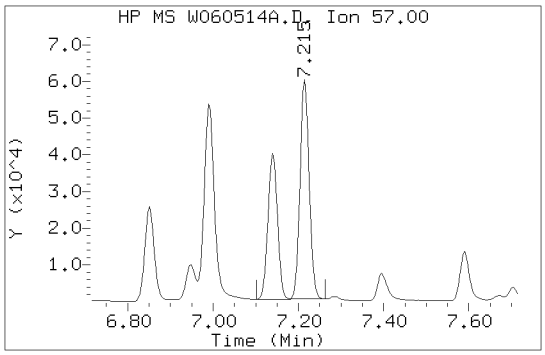
BEFORE

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17:11
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PATEL



AFTER

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57
AREA
152533
HEIGHT
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21-Jun-2024
17:35
RUCHA
PATEL



right solutions.
right partner.

RawData

<textMethods>

Workorder

HS24051535

Client

Bhate Environmental Associates, Inc.

Project

LHAAP-58

06/24/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Data File: \\nahstws005\Target\chem\voa9.i\U240606.b\U060601.D Page 1
Report Date: 06-Jun-2024 17:16

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240606.b\U060601.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 06-JUN-2024 10:07
Operator : TS Inst ID: VOA9.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240606.b\bfb.m
Meth Date : 27-Jan-2023 08:08 apoluri Quant Type: ISTD
Cal Date : 30-MAR-2018 18:09 Cal File: U033003.d
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAHSTW7026

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	2.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/l)		
RT	EXP RT	REL RT	MASS	RESPONSE			TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
9.194	9.180	(0.000)	95	61664			0.00- 100.00	100.00
9.194	9.180	(0.000)	50	11878			15.00- 40.00	19.26
9.194	9.180	(0.000)	75	31160			30.00- 60.00	50.53
9.194	9.180	(0.000)	96	4198			5.00- 9.00	6.81
9.194	9.180	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
9.194	9.180	(0.000)	174	59216			50.00- 0.00	96.03
9.194	9.180	(0.000)	175	4752			5.00- 9.00	8.02
9.194	9.180	(0.000)	176	56280			95.00- 101.00	95.04
9.194	9.180	(0.000)	177	3488			5.00- 9.00	6.20

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060602.D Page 1
Report Date: 21-Jun-2024 17:22

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060602.D
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Smp Info : VSTD050;VSTD050;2;;CCV
Misc Info : V9;WATER;0;1;
Comment   :
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Meth Date : 21-Jun-2024 17:22 VOA9.i Quant Type: ISTD
Cal Date : 05-JUN-2024 20:24 Cal File: W060506.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.812	4.812	(1.000)	236447	50.0000	
2	Dichlorodifluoromethane	85	1.157	1.157	(0.240)	38455	50.0000	52.34
3	Chloromethane	50	1.288	1.288	(0.268)	140431	50.0000	51.53
4	Propionitrile	54	4.328	4.328	(0.900)	102933	500.000	449.39
5	Vinyl Chloride	62	1.370	1.370	(0.285)	76052	50.0000	47.36
6	Bromomethane	94	1.599	1.599	(0.332)	34908	50.0000	47.99
7	Chloroethane	64	1.685	1.685	(0.350)	55028	50.0000	47.38
8	Trichlorofluoromethane	101	1.884	1.884	(0.392)	100285	50.0000	48.43
9	Acrolein	56	2.255	2.255	(0.469)	6939	100.000	90.18
10	Acetone	43	2.401	2.401	(0.499)	57518	100.000	91.05
11	1,1-Dichloroethene	96	2.322	2.322	(0.483)	62047	50.0000	45.75
12	Isobutyl Alcohol	43	5.280	5.280	(1.097)	224274	1000.00	891.84
13	Acetonitrile	39	2.664	2.664	(0.554)	89258	500.000	456.60
14	Allyl Chloride	41	2.664	2.664	(0.554)	202246	50.0000	45.62
15	Iodomethane	142	2.457	2.457	(0.511)	52258	100.000	149.08
16	Acrylonitrile	53	3.057	3.057	(0.635)	53890	100.000	90.66
17	Methylene Chloride	84	2.787	2.787	(0.579)	80129	50.0000	49.07
18	Methyl tert-butyl ether	73	3.072	3.072	(0.639)	181644	50.0000	45.10
19	Carbon Disulfide	76	2.510	2.510	(0.522)	359201	100.000	92.41
20	trans-1,2-Dichloroethene	96	3.050	3.050	(0.634)	69406	50.0000	47.81

21 Vinyl Acetate	43	4.332	4.332 (0.900)	87721	100.000	94.96
22 1,1-Dichloroethane	63	3.503	3.503 (0.728)	135603	50.0000	47.70

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
23	Chloroprene	53	3.601	3.601	(0.748)	109844	50.0000	45.56
24	2-Butanone	43	4.257	4.257	(0.885)	80235	100.000	91.98
25	Methacrylonitrile	41	4.485	4.485	(0.932)	47762	50.0000	45.79(a)
26	2,2-Dichloropropane	77	4.174	4.174	(0.868)	96468	50.0000	47.94
27	cis-1,2-Dichloroethene	96	4.189	4.189	(0.871)	83187	50.0000	47.68
28	Chloroform	83	4.568	4.568	(0.949)	139524	50.0000	44.77
29	Bromochloromethane	128	4.463	4.463	(0.928)	42023	50.0000	49.40
$ 30	Dibromofluoromethane	113	4.740	4.740	(0.985)	88627	50.0000	52.00
31	1,1,1-Trichloroethane	97	4.737	4.737	(0.984)	106730	50.0000	47.69
32	1,1-Dichloropropene	75	4.917	4.917	(0.886)	101109	50.0000	45.84
33	1,2-Dichloroethane	62	5.171	5.171	(0.932)	116129	50.0000	49.21
34	Carbon Tetrachloride	117	4.905	4.905	(0.884)	85760	50.0000	47.12
$ 35	1,2-Dichloroethane-d4	65	5.093	5.093	(1.058)	107750	50.0000	51.85
* 36	1,4-Difluorobenzene	114	5.546	5.546	(1.000)	341467	50.0000	
37	Benzene	78	5.134	5.134	(0.926)	312564	50.0000	48.31
38	Trichloroethene	130	5.782	5.782	(1.043)	77442	50.0000	45.53
39	Bromodichloromethane	83	6.274	6.274	(1.131)	94360	50.0000	46.57
40	Methyl Methacrylate	41	5.820	5.820	(1.210)	31304	50.0000	43.66
41	2-Chloroethylvinyl ether	63	6.573	6.573	(1.185)	35779	100.000	86.69
42	1,2-Dichloropropane	63	6.004	6.004	(1.082)	86178	50.0000	47.60
43	2-Nitropropane	43	6.502	6.502	(1.351)	17236	50.0000	50.59
44	Dibromomethane	93	6.116	6.116	(1.103)	51067	50.0000	48.94
45	4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	165099	100.000	87.87
46	cis-1,3-Dichloropropene	75	6.686	6.686	(1.205)	117216	50.0000	44.59
* 47	Chlorobenzene-d5	117	8.182	8.182	(1.000)	310220	50.0000	
$ 48	Toluene-d8	98	6.918	6.918	(0.846)	344985	50.0000	55.37
49	Ethyl Methacrylate	69	7.286	7.286	(1.314)	98289	50.0000	44.49
50	Toluene	91	6.978	6.978	(0.853)	323841	50.0000	46.76
51	trans-1,3-Dichloropropene	75	7.192	7.192	(1.297)	94963	50.0000	43.52
52	2-Hexanone	43	7.211	7.211	(0.881)	111223	100.000	85.75
53	1,1,2-Trichloroethane	83	7.349	7.349	(0.898)	63758	50.0000	48.44
54	1,3-Dichloropropane	76	7.496	7.496	(0.916)	137968	50.0000	48.68
55	Dibromochloromethane	129	7.687	7.687	(0.940)	75161	50.0000	46.01
56	Tetrachloroethene	164	7.454	7.454	(0.911)	63077	50.0000	46.85
57	1,2-Dibromoethane	107	7.781	7.781	(0.951)	73397	50.0000	47.24
58	1-Chlorohexane	55	8.193	8.193	(1.477)	64060	50.0000	44.49
59	Chlorobenzene	112	8.208	8.208	(1.003)	210412	50.0000	48.73
60	1,1,1,2-Tetrachloroethane	131	8.279	8.279	(1.012)	72343	50.0000	48.26
61	Ethylbenzene	106	8.302	8.302	(1.015)	105162	50.0000	47.54
62	m,p-Xylenes	106	8.407	8.407	(1.027)	269996	100.000	98.24
63	o-Xylene	106	8.744	8.744	(1.069)	133646	50.0000	50.24
64	Styrene	104	8.759	8.759	(1.071)	222365	50.0000	51.68
66	Bromoform	173	8.916	8.916	(1.090)	43245	50.0000	41.82
67	Isopropylbenzene	105	9.059	9.059	(1.107)	326351	50.0000	51.65
68	1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	107383	50.0000	48.55
$ 69	4-Bromofluorobenzene	95	9.190	9.190	(1.123)	128908	50.0000	57.19
* 70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	166510	50.0000	
71	1,2,3-Trichloropropane	75	9.359	9.359	(0.920)	103758	50.0000	45.82
72	trans-1,4-Dichloro-2-butene	53	9.374	9.374	(1.146)	21213	50.0000	44.10
73	n-Propylbenzene	91	9.407	9.407	(0.925)	386783	50.0000	51.09
74	Bromobenzene	156	9.314	9.314	(0.916)	91386	50.0000	48.37
75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	264942	50.0000	53.15

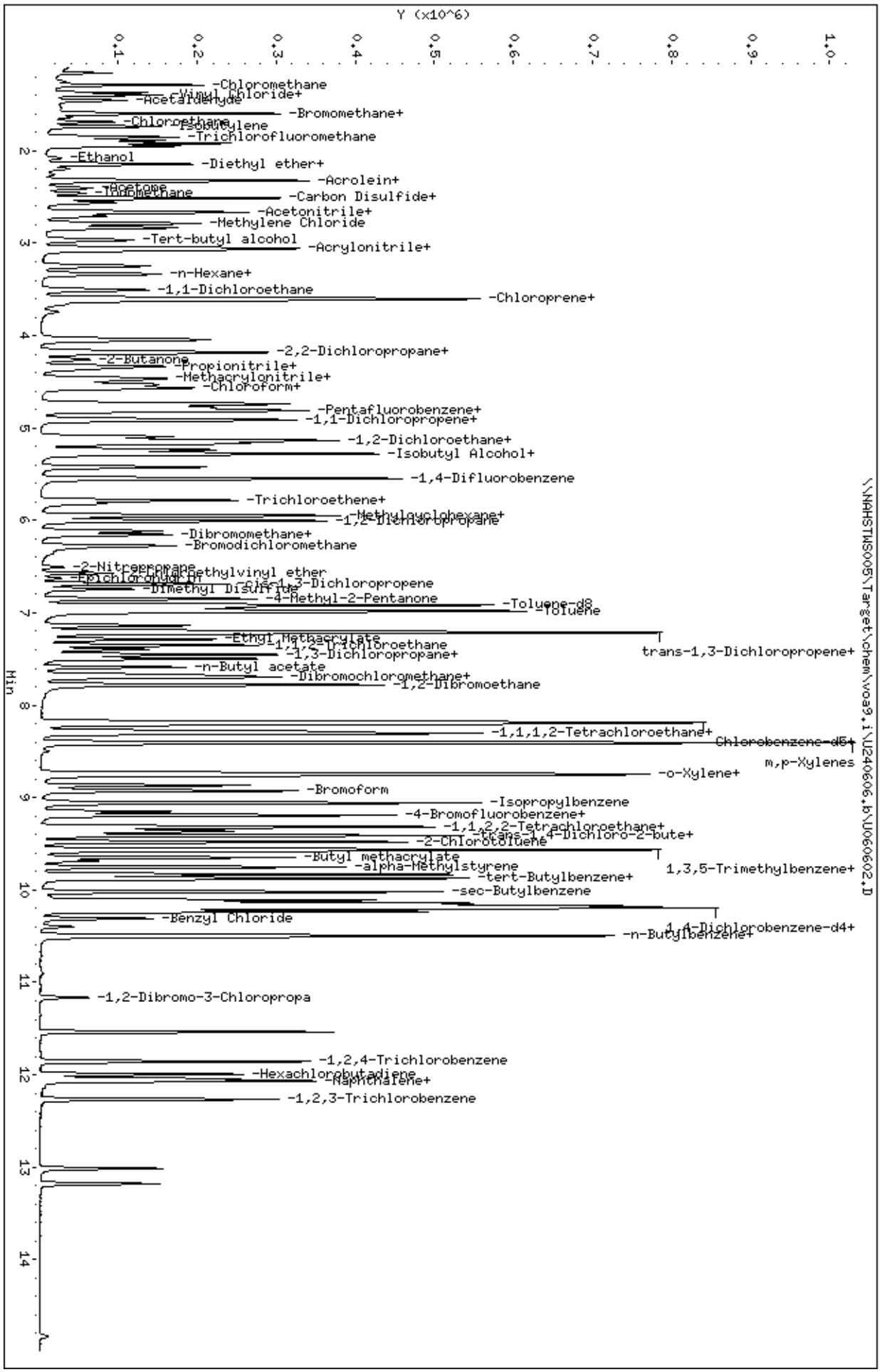
76	2-Chlorotoluene	91	9.479	9.479 (0.932)	235513	50.0000	47.98
77	4-Chlorotoluene	91	9.572	9.572 (0.941)	272846	50.0000	48.26

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	78 tert-Butylbenzene	119	9.835	9.835	(0.967)	229695	50.0000	50.43
	79 1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	268045	50.0000	51.99
	81 sec-Butylbenzene	105	10.019	10.019	(0.985)	315249	50.0000	52.35
	82 p-Isopropyltoluene	119	10.142	10.142	(0.997)	274708	50.0000	53.71
	83 1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	160454	50.0000	45.81
	84 1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	169647	50.0000	48.89
	86 Benzyl Chloride	91	10.307	10.307	(1.260)	91172	50.0000	46.34
	87 n-Butylbenzene	91	10.491	10.491	(1.032)	240821	50.0000	47.08
	88 1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	161221	50.0000	49.07
	89 1,2-Dibromo-3-Chloropropane	155	11.166	11.166	(1.098)	12046	50.0000	44.60
	90 1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	103456	50.0000	47.01
	91 Hexachlorobutadiene	225	11.994	11.994	(1.180)	46491	50.0000	48.77
	92 Naphthalene	128	12.065	12.065	(1.187)	235498	50.0000	45.06
	93 1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	91386	50.0000	47.62
	146 Methyl acetate	43	2.705	2.705	(0.562)	83079	50.0000	48.63
	138 Freon TF	101	2.326	2.326	(0.484)	59081	50.0000	50.87
	141 Cyclohexane	56	4.778	4.778	(0.993)	99364	50.0000	46.88
	142 Tetrahydrofuran	42	4.534	4.534	(0.942)	26189	100.000	85.76
	147 Methylcyclohexane	55	5.944	5.944	(1.072)	180909	50.0000	46.05
	135 1,4-Dioxane	88	6.161	6.161	(1.280)	16519	1000.00	914.98
	132 n-Butanol	56	5.820	5.820	(1.210)	41387	1000.00	822.73
	136 n-Hexane	57	3.335	3.335	(0.693)	74133	50.0000	49.77
	139 Diethyl ether	59	2.139	2.139	(0.445)	53088	50.0000	45.43
	148 Tert-butyl alcohol	59	2.963	2.963	(0.616)	122888	1000.00	848.87
	149 Isopropyl alcohol	45	2.559	2.559	(0.532)	100296	1000.00	862.07
	156 Diisopropyl ether	45	3.612	3.612	(0.751)	249554	50.0000	46.74
	162 Butyl acrylate	55	8.729	8.729	(1.067)	130435	50.0000	42.59
	164 Dicyclopentadiene	66	10.198	10.198	(1.003)	364301	50.0000	46.09
	166 1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	247698	50.0000	47.35
	167 Ethanol	45	2.079	2.079	(0.432)	18965	1000.00	904.40
	172 tert-Butyl formate	59	5.239	5.239	(1.089)	121552	100.000	86.51
	151 4-Methyl-2-pentanol	45	7.214	7.214	(1.301)	422645	1000.00	815.91(M)
	140 1,3-Butadiene	54	1.397	1.397	(0.290)	38054	50.0000	48.39
	182 Epichlorohydrin	57	6.626	6.626	(1.195)	17292	200.000	185.53
M	94 1,2-Dichloroethylene (total)	96				152593	100.000	(a)
	145 alpha-Methylstyrene	118	9.752	9.752	(0.959)	104441	50.0000	51.51
	130 Ethyl Acetate	43	4.530	4.530	(0.942)	32009	50.0000	50.38(M)
	131 Methyl Acrylate	55	4.362	4.362	(0.907)	84346	50.0000	43.99
	189 n-Butyl acetate	43	7.589	7.589	(0.928)	102576	50.0000	44.21(M)
	134 Cyclohexanone	55	9.153	9.153	(0.900)	62505	1000.00	870.08
	185 Isoprene	39	2.146	2.146	(0.446)	18197	50.0000	45.93
	188 Isopropyl acetate	43	5.280	5.280	(0.952)	224274	50.0000	46.03
	150 Allyl alcohol	57	3.335	3.335	(0.693)	74133	1000.00	995.41
	194 Acetaldehyde	44	1.453	1.453	(0.302)	96204	200.000	271.54
	200 Dimethyl Disulfide	94	6.742	6.742	(0.824)	44022	50.0000	47.65
	202 Isobutylene	41	1.738	1.738	(0.361)	39393	50.0000	50.94(M)
	133 Ethyl Acrylate	55	5.944	5.944	(1.235)	180909	50.0000	45.29
	163 Butyl methacrylate	41	9.647	9.647	(0.949)	85742	50.0000	49.86
	159 Propylene oxide	43	2.195	2.195	(0.456)	11684	100.000	88.08
	178 Ethylene oxide	44	1.591	1.591	(0.331)	268978	100.000	84.90
	203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	84511	50.0000	47.55
	204 Tetrahydrothiophene	60	7.668	7.668	(0.937)	68079	50.0000	46.29(A)

205 sec-Butyl Ether	57	7.214	7.214 (0.882)	153850	50.0000	40.49(AM)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.



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Client ID: VSTD050
Sample Info: VSTD050;VSTD050;2;;CCV
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

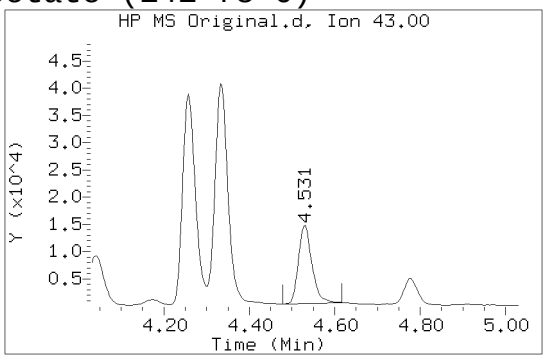
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LabSampID : VSTD050

Ethyl Acetate (141-78-6)

Reason Code:

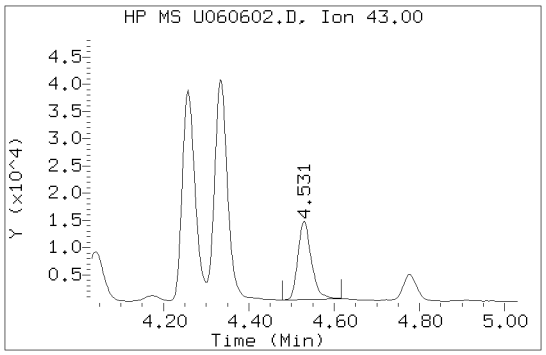
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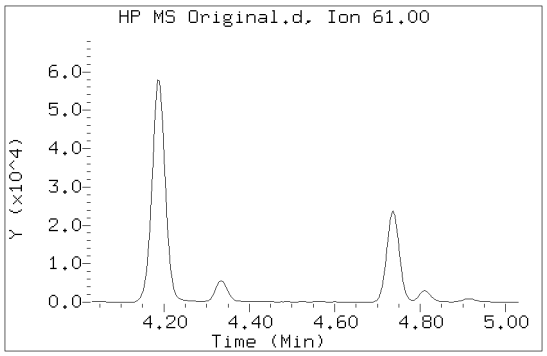
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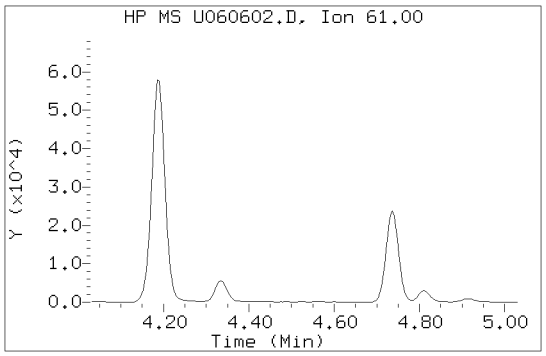
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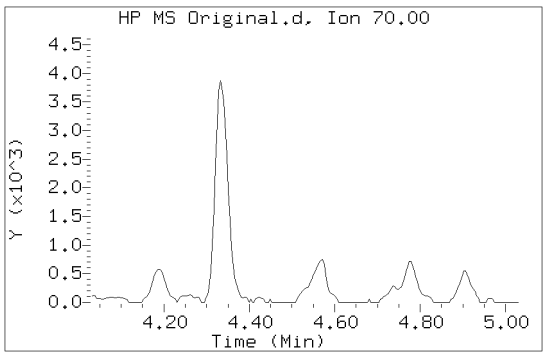
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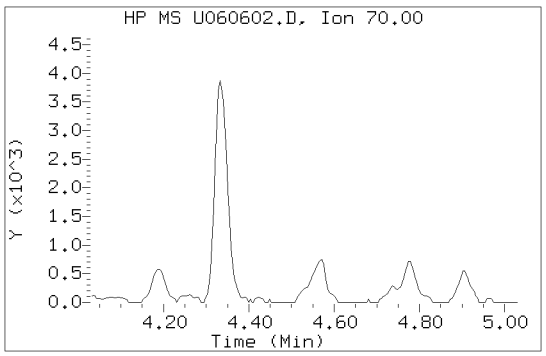
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AFTER

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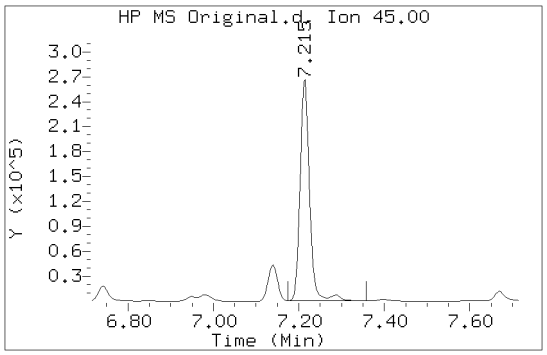


4-Methyl-2-pentanol (108-11-2)

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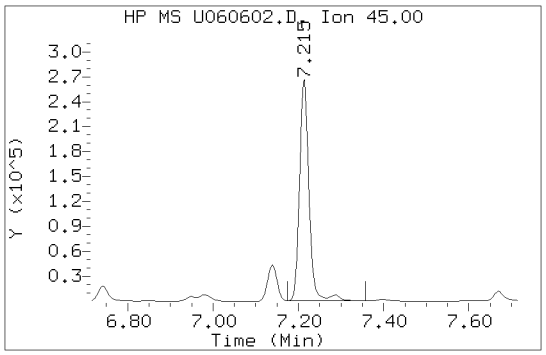
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21-Jun-2024
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AFTER

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17:22
RUCHA
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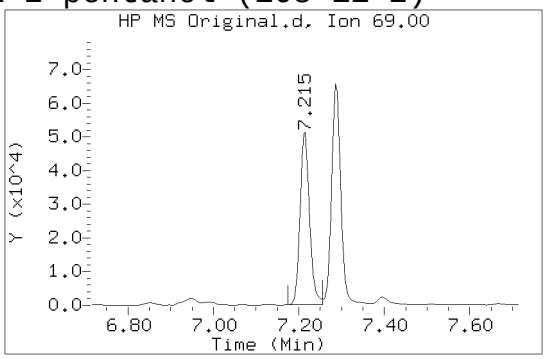
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InstruID : VOA9.i
LabSampID : VSTD050

4-Methyl-2-pentanol (108-11-2)

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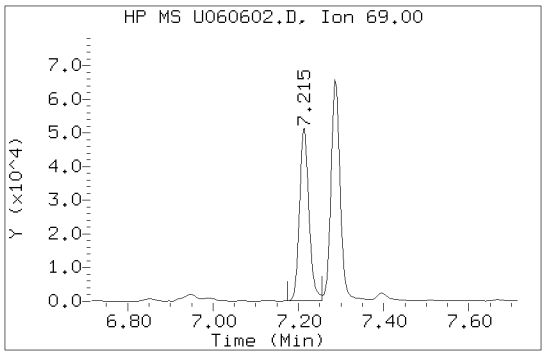
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21-Jun-2024
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AFTER

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HEIGHT
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21-Jun-2024
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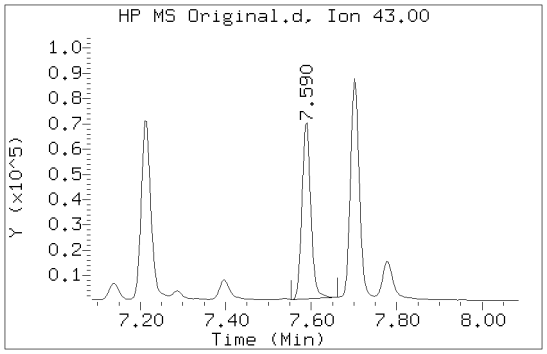


n-Butyl acetate (123-86-4)

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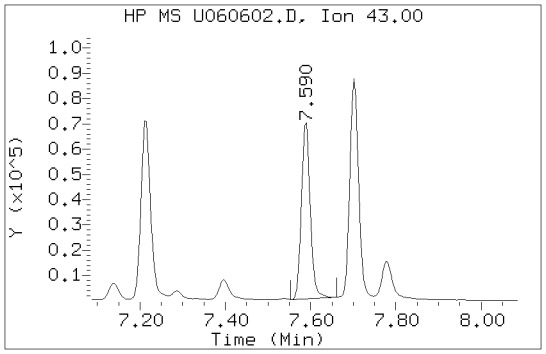
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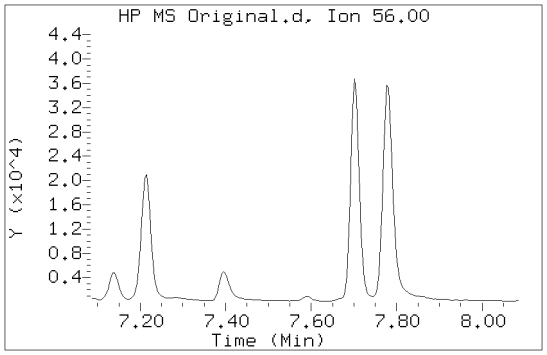
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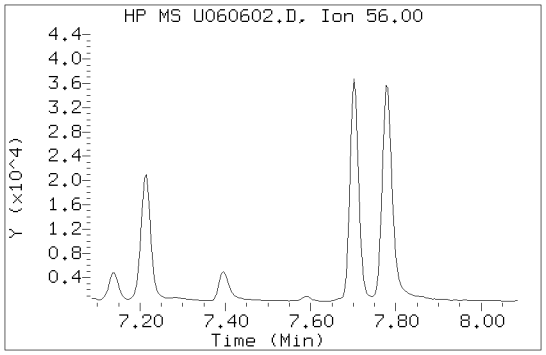
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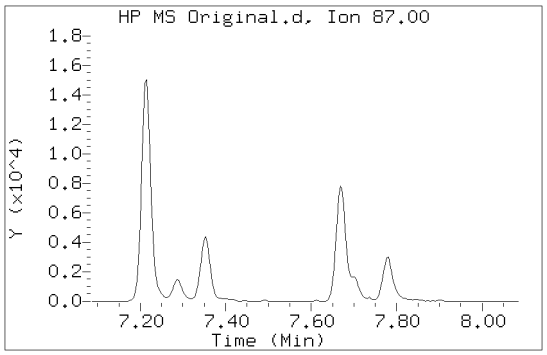
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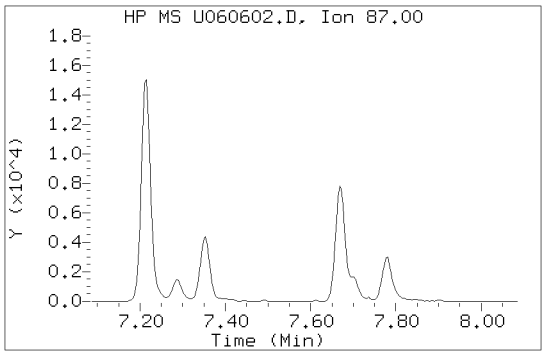
BEFORE

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AFTER

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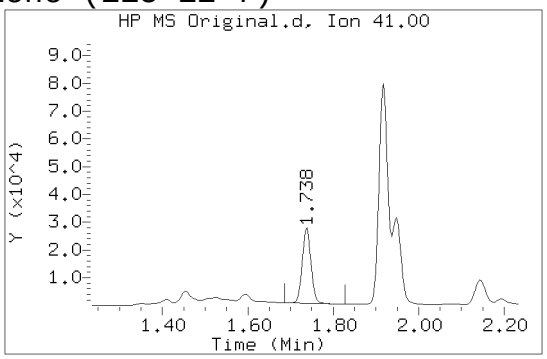
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InstruID : VOA9.i
LabSampID : VSTD050

Isobutylene (115-11-7)

Reason Code:

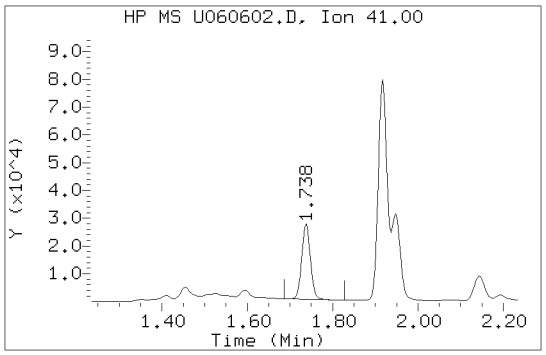
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PATEL



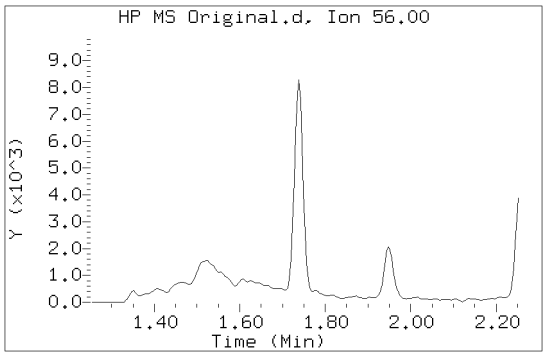
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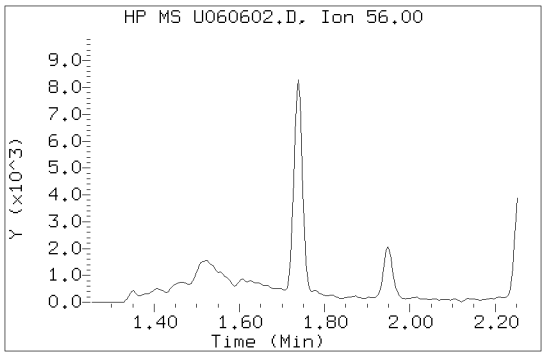
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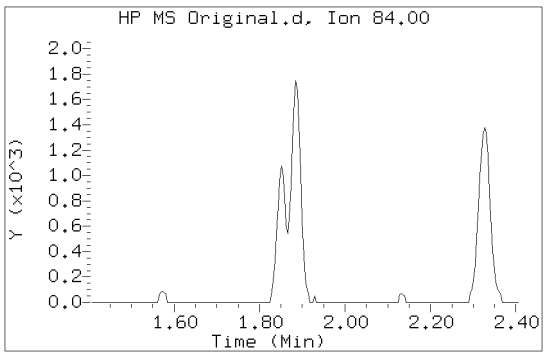
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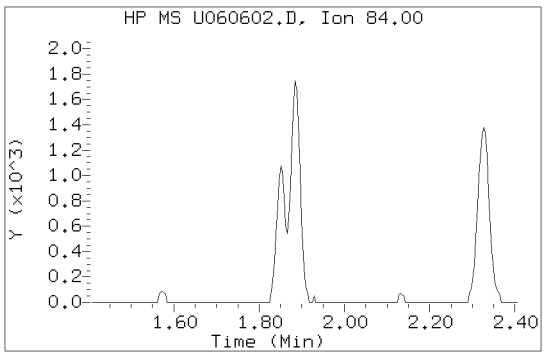
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AFTER

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PATEL

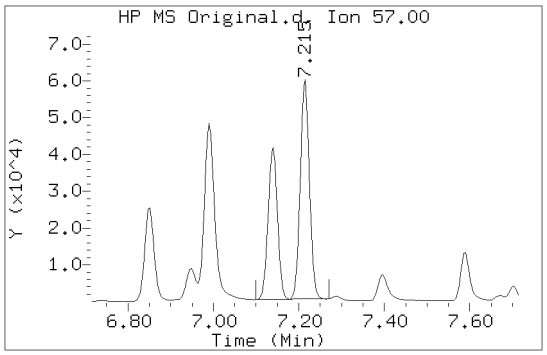


sec-Butyl Ether (6863-58-7)

Reason Code:

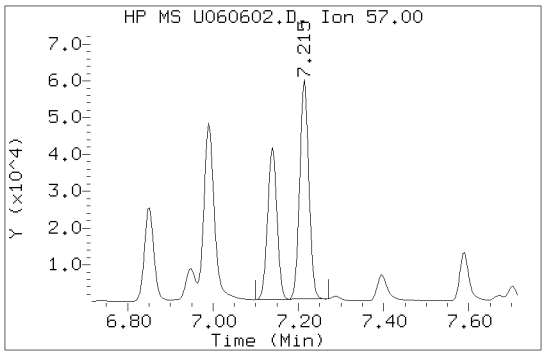
BEFORE

MASS
57
AREA
153850
HEIGHT
59604
21-Jun-2024
17:22
RUCHA
PATEL



AFTER

MASS
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AREA
153850
HEIGHT
59604
21-Jun-2024
17:22
RUCHA
PATEL



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060603.D Page 1
Report Date: 21-Jun-2024 17:22

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060603.D
Lab Smp Id: VLCSW-240606 Client Smp ID: VLCSW-240606
Inj Date : 06-JUN-2024 11:12
Operator : TS Inst ID: VOA9.i
Smp Info : VLCSW-240606;VLCSW-240606;3;;LCS
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240606.b\8260C.m
Meth Date : 21-Jun-2024 17:22 VOA9.i Quant Type: ISTD
Cal Date : 05-JUN-2024 20:24 Cal File: W060506.D
Als bottle: 3 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.812	4.812	(1.000)	236067	50.0000	
2 Dichlorodifluoromethane	85	1.160	1.157	(0.241)	15460	21.5556	21.55
3 Chloromethane	50	1.292	1.288	(0.269)	60203	20.0827	20.08
4 Propionitrile	54	4.332	4.328	(0.900)	44005	193.263	193.26(a)
5 Vinyl Chloride	62	1.374	1.370	(0.286)	31994	19.9584	19.95
6 Bromomethane	94	1.603	1.599	(0.333)	15828	21.4937	21.49
7 Chloroethane	64	1.693	1.685	(0.352)	23553	20.2090	20.20
8 Trichlorofluoromethane	101	1.888	1.884	(0.392)	41735	20.1908	20.19
9 Acrolein	56	2.259	2.255	(0.469)	2757	33.9962	33.99
10 Acetone	43	2.405	2.401	(0.500)	25317	37.7448	37.74
11 1,1-Dichloroethene	96	2.326	2.322	(0.484)	26396	19.4962	19.49
12 Isobutyl Alcohol	43	5.280	5.280	(1.097)	87231	347.438	347.43(a)
13 Acetonitrile	39	2.667	2.664	(0.554)	37611	193.731	193.73(a)
14 Allyl Chloride	41	2.667	2.664	(0.554)	86067	19.4877	19.48(a)
15 Iodomethane	142	2.461	2.457	(0.512)	21051	70.4889	70.48
16 Acrylonitrile	53	3.061	3.057	(0.636)	23119	38.1153	38.11
17 Methylene Chloride	84	2.787	2.787	(0.579)	32840	19.3238	19.32
18 Methyl tert-butyl ether	73	3.076	3.072	(0.639)	78359	19.4612	19.46
19 Carbon Disulfide	76	2.514	2.510	(0.522)	144662	37.2801	37.28
20 trans-1,2-Dichloroethene	96	3.053	3.050	(0.635)	28411	19.6463	19.64

21 Vinyl Acetate	43	4.336	4.332 (0.901)	32350	35.3629	35.36
22 1,1-Dichloroethane	63	3.507	3.503 (0.729)	55540	19.3836	19.38

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060603.D Page 2
Report Date: 21-Jun-2024 17:22

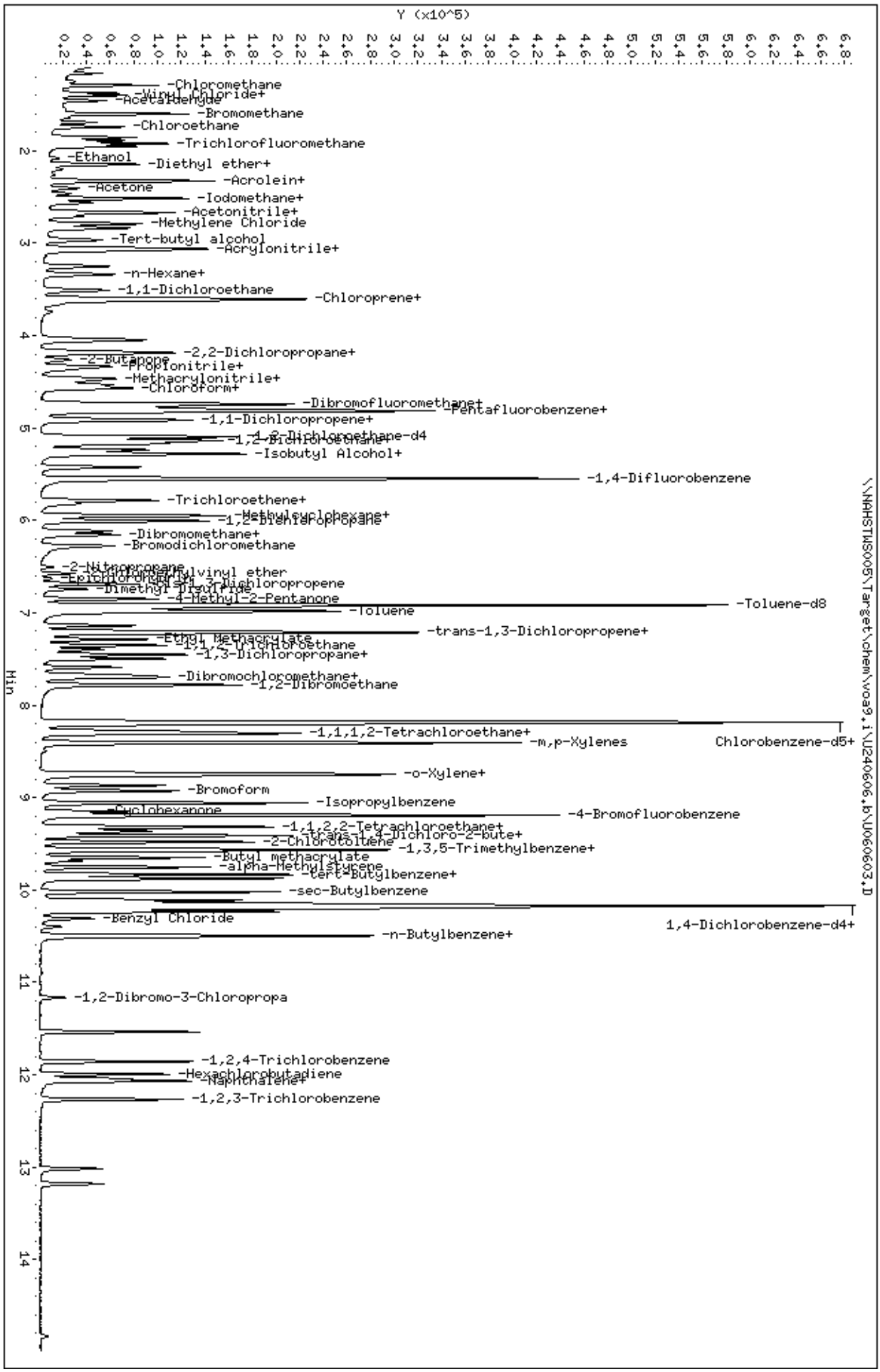
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	23 Chloroprene	53	3.605	3.601	(0.749)	44613	18.5374	18.53
	24 2-Butanone	43	4.261	4.257	(0.885)	33786	38.3509	38.35
	25 Methacrylonitrile	41	4.493	4.485	(0.934)	17670	17.8942	17.89(a)
	26 2,2-Dichloropropane	77	4.174	4.174	(0.868)	38054	18.9445	18.94
	27 cis-1,2-Dichloroethene	96	4.189	4.189	(0.871)	33106	19.1098	19.10
	28 Chloroform	83	4.568	4.568	(0.949)	56156	18.0492	18.04
	29 Bromochloromethane	128	4.463	4.463	(0.928)	16788	19.4569	19.45
$	30 Dibromofluoromethane	113	4.744	4.740	(0.986)	90046	52.9196	52.91
	31 1,1,1-Trichloroethane	97	4.737	4.737	(0.984)	41968	18.7864	18.78
	32 1,1-Dichloropropene	75	4.917	4.917	(0.886)	42267	18.8783	18.87
	33 1,2-Dichloroethane	62	5.171	5.171	(0.932)	46341	18.9477	18.94
	34 Carbon Tetrachloride	117	4.905	4.905	(0.884)	33206	17.9736	17.97
$	35 1,2-Dichloroethane-d4	65	5.093	5.093	(1.058)	108803	52.4487	52.44
*	36 1,4-Difluorobenzene	114	5.550	5.546	(1.000)	346656	50.0000	
	37 Benzene	78	5.134	5.134	(0.925)	126391	19.3189	19.31
	38 Trichloroethene	130	5.786	5.782	(1.043)	31743	18.3870	18.38
	39 Bromodichloromethane	83	6.274	6.274	(1.130)	34144	16.6004	16.60
	40 Methyl Methacrylate	41	5.824	5.820	(1.210)	12991	19.4872	19.48(a)
	41 2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	11154	31.5730	31.57
	42 1,2-Dichloropropane	63	6.004	6.004	(1.082)	34235	18.5844	18.58
	43 2-Nitropropane	43	6.506	6.502	(1.352)	6265	18.4184	18.41
	44 Dibromomethane	93	6.116	6.116	(1.102)	20038	18.8071	18.80
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	61147	33.7004	33.70
	46 cis-1,3-Dichloropropene	75	6.686	6.686	(1.205)	41140	17.0265	17.02
*	47 Chlorobenzene-d5	117	8.182	8.182	(1.000)	315190	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.846)	345361	54.5625	54.56
	49 Ethyl Methacrylate	69	7.289	7.286	(1.313)	40435	18.0290	18.02(a)
	50 Toluene	91	6.978	6.978	(0.853)	131948	18.7520	18.75
	51 trans-1,3-Dichloropropene	75	7.192	7.192	(1.296)	32329	16.3367	16.33
	52 2-Hexanone	43	7.211	7.211	(0.881)	50656	37.6450	37.64
	53 1,1,2-Trichloroethane	83	7.353	7.349	(0.899)	25931	19.2644	19.26
	54 1,3-Dichloropropane	76	7.496	7.496	(0.916)	52645	18.2526	18.25
	55 Dibromochloromethane	129	7.687	7.687	(0.940)	25887	16.8527	16.85
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	26404	19.3051	19.30
	57 1,2-Dibromoethane	107	7.781	7.781	(0.951)	28084	18.1546	18.15
	58 1-Chlorohexane	55	8.193	8.193	(1.476)	28852	19.6636	19.66
	59 Chlorobenzene	112	8.208	8.208	(1.003)	85629	19.4394	19.43
	60 1,1,1,2-Tetrachloroethane	131	8.279	8.279	(1.012)	27160	17.8330	17.83
	61 Ethylbenzene	106	8.305	8.302	(1.015)	42101	18.7357	18.73
	62 m,p-Xylenes	106	8.407	8.407	(1.027)	108198	38.7480	38.74
	63 o-Xylene	106	8.744	8.744	(1.069)	51669	19.1178	19.11
	64 Styrene	104	8.759	8.759	(1.071)	84900	19.4237	19.42
	66 Bromoform	173	8.916	8.916	(1.090)	14170	15.8738	15.87
	67 Isopropylbenzene	105	9.059	9.059	(1.107)	130643	20.3524	20.35
	68 1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	41307	18.7027	18.70
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	127791	55.8040	55.80
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	164829	50.0000	
	71 1,2,3-Trichloropropane	75	9.359	9.359	(0.920)	38827	18.1138	18.11
	72 trans-1,4-Dichloro-2-butene	53	9.374	9.374	(1.146)	7629	16.0570	16.05(a)
	73 n-Propylbenzene	91	9.411	9.407	(0.926)	150196	20.0448	20.04
	74 Bromobenzene	156	9.314	9.314	(0.916)	36394	19.6402	19.64
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	103836	21.0445	21.04

76	2-Chlorotoluene	91	9.479	9.479 (0.932)	93693	19.2828	19.28
77	4-Chlorotoluene	91	9.572	9.572 (0.941)	108460	19.3832	19.38

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	93122	20.6548	20.65
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	104927	20.5605	20.56
81	sec-Butylbenzene	105	10.019	10.019	(0.985)	125963	21.1328	21.13
82	p-Isopropyltoluene	119	10.142	10.142	(0.997)	106679	21.0703	21.07
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	64943	18.7327	18.73
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	68439	19.8366	19.83
86	Benzyl Chloride	91	10.311	10.307	(1.260)	29218	15.9097	15.90
87	n-Butylbenzene	91	10.491	10.491	(1.032)	96222	20.0313	20.03
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	63649	19.5589	19.55
89	1,2-Dibromo-3-Chloropropane	155	11.166	11.166	(1.098)	4105	16.6601	16.66
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	39359	19.1509	19.15
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	19315	20.4725	20.47
92	Naphthalene	128	12.065	12.065	(1.187)	84940	17.6212	17.62
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	36721	19.3334	19.33
146	Methyl acetate	43	2.709	2.705	(0.563)	33111	18.4987	18.49
138	Freon TF	101	2.330	2.326	(0.484)	24239	20.9066	20.90
141	Cyclohexane	56	4.778	4.778	(0.993)	43884	20.8786	20.87
142	Tetrahydrofuran	42	4.538	4.534	(0.943)	10506	33.8853	33.88
147	Methylcyclohexane	55	5.944	5.944	(1.071)	72850	18.2679	18.26
135	1,4-Dioxane	88	6.165	6.161	(1.281)	7050	391.207	391.20
132	n-Butanol	56	5.820	5.820	(1.210)	17155	374.180	374.18(a)
136	n-Hexane	57	3.335	3.335	(0.693)	30233	20.7105	20.71
139	Diethyl ether	59	2.139	2.139	(0.445)	23144	19.7951	19.79
148	Tert-butyl alcohol	59	2.964	2.963	(0.616)	53137	372.618	372.61
149	Isopropyl alcohol	45	2.562	2.559	(0.533)	42447	369.780	369.77
156	Diisopropyl ether	45	3.616	3.612	(0.751)	106031	20.0315	20.03
162	Butyl acrylate	55	8.733	8.729	(1.067)	51268	16.4773	16.47
164	Dicyclopentadiene	66	10.195	10.198	(1.003)	159246	20.8883	20.88
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	101225	20.0704	20.07
167	Ethanol	45	2.083	2.079	(0.433)	8667	407.988	407.98
172	tert-Butyl formate	59	5.235	5.239	(1.088)	48416	34.8456	34.84
151	4-Methyl-2-pentanol	45	7.215	7.214	(1.300)	164153	346.978	346.97
140	1,3-Butadiene	54	1.397	1.397	(0.290)	15751	20.3530	20.35
182	Epichlorohydrin	57	6.630	6.626	(1.195)	7262	80.1406	80.14
M 94	1,2-Dichloroethylene (total)	96				61517	35.0574	35.05
M 95	Xylenes (total)	106				159867	58.3036	58.30
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	39209	19.5372	19.53
131	Methyl Acrylate	55	4.366	4.362	(0.907)	33768	18.0897	18.08
134	Cyclohexanone	55	9.153	9.153	(0.900)	29033	406.359	406.35(a)
185	Isoprene	39	2.150	2.146	(0.447)	7701	19.4708	19.47
188	Isopropyl acetate	43	5.280	5.280	(0.951)	87260	17.9765	17.97
150	Allyl alcohol	57	3.335	3.335	(0.693)	30233	414.210	414.21
194	Acetaldehyde	44	1.457	1.453	(0.303)	47451	134.709	134.70
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	14396	17.5968	17.59
133	Ethyl Acrylate	55	5.944	5.944	(1.235)	72850	18.2683	18.26
163	Butyl methacrylate	41	9.647	9.647	(0.949)	36422	21.4457	21.44
159	Propylene oxide	43	2.195	2.195	(0.456)	4958	37.4392	37.43
203	2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	30209	18.7044	18.70
204	Tetrahydrothiophene	60	7.672	7.668	(0.938)	27288	18.2633	18.26(A)
205	sec-Butyl Ether	57	7.215	7.214	(0.882)	39634	10.2687	10.26(A)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060603.D
Date : 06-JUN-2024 11:12
Client ID: VLCSW-240606
Sample Info: VLCSW-240606;VLCSW-240606;3;LCS
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

\\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060603.D

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060603.D
Inj Date : 06-JUN-2024 11:12
InstruID : VOA9.i
LabSampID : VLCSW-240606

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060604.D Page 1
Report Date: 21-Jun-2024 17:22

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060604.D
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Inj Date : 06-JUN-2024 11:33
Operator : TS Inst ID: VOA9.i
Smp Info : VLCSDW-240606;VLCSDW-240606;3;;LCSD
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240606.b\8260C.m
Meth Date : 21-Jun-2024 17:22 VOA9.i Quant Type: ISTD
Cal Date : 05-JUN-2024 20:24 Cal File: W060506.D
Als bottle: 3 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
*	1 Pentafluorobenzene	168	4.815	4.812	(1.000)	244305	50.0000	
	2 Dichlorodifluoromethane	85	1.164	1.157	(0.242)	14512	19.6256	19.62
	3 Chloromethane	50	1.295	1.288	(0.269)	56967	18.0555	18.05
	4 Propionitrile	54	4.335	4.328	(0.900)	41294	175.377	175.37(a)
	5 Vinyl Chloride	62	1.378	1.370	(0.286)	28804	17.3625	17.36
	6 Bromomethane	94	1.606	1.599	(0.334)	15002	19.6382	19.63
	7 Chloroethane	64	1.696	1.685	(0.352)	21345	17.6743	17.67
	8 Trichlorofluoromethane	101	1.891	1.884	(0.393)	38726	18.1033	18.10
	9 Acrolein	56	2.262	2.255	(0.470)	2579	30.3345	30.33
	10 Acetone	43	2.405	2.401	(0.499)	26969	38.9778	38.97
	11 1,1-Dichloroethene	96	2.330	2.322	(0.484)	24445	17.4464	17.44
	12 Isobutyl Alcohol	43	5.280	5.280	(1.097)	83201	320.212	320.21(a)
	13 Acetonitrile	39	2.667	2.664	(0.554)	36143	180.018	180.01(a)
	14 Allyl Chloride	41	2.671	2.664	(0.555)	82537	18.0636	18.06(a)
	15 Iodomethane	142	2.465	2.457	(0.512)	19172	62.5973	62.59
	16 Acrylonitrile	53	3.065	3.057	(0.636)	23024	36.6230	36.62
	17 Methylene Chloride	84	2.791	2.787	(0.580)	31874	18.0365	18.03
	18 Methyl tert-butyl ether	73	3.076	3.072	(0.639)	76092	18.2579	18.25
	19 Carbon Disulfide	76	2.517	2.510	(0.523)	135406	33.7182	33.71
	20 trans-1,2-Dichloroethene	96	3.053	3.050	(0.634)	26982	18.0351	18.03

21 Vinyl Acetate	43	4.339	4.332 (0.901)	31817	33.6298	33.62
22 1,1-Dichloroethane	63	3.511	3.503 (0.729)	52254	17.5928	17.59

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060604.D Page 2
Report Date: 21-Jun-2024 17:22

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	23 Chloroprene	53	3.604	3.601	(0.749)	43763	17.5711	17.57
	24 2-Butanone	43	4.264	4.257	(0.886)	32740	35.8615	35.86
	25 Methacrylonitrile	41	4.493	4.485	(0.933)	31908	30.1281	30.12(a)
	26 2,2-Dichloropropane	77	4.178	4.174	(0.868)	34718	16.7009	16.70
	27 cis-1,2-Dichloroethene	96	4.193	4.189	(0.871)	32516	18.1450	18.14
	28 Chloroform	83	4.572	4.568	(0.949)	53284	16.5486	16.54
	29 Bromochloromethane	128	4.467	4.463	(0.928)	16043	17.9269	17.92
$	30 Dibromofluoromethane	113	4.744	4.740	(0.985)	89561	50.8597	50.85
	31 1,1,1-Trichloroethane	97	4.740	4.737	(0.984)	40295	17.4293	17.42
	32 1,1-Dichloropropene	75	4.920	4.917	(0.887)	38737	16.8273	16.82
	33 1,2-Dichloroethane	62	5.171	5.171	(0.932)	45063	17.8846	17.88
	34 Carbon Tetrachloride	117	4.909	4.905	(0.885)	31594	16.6322	16.63
$	35 1,2-Dichloroethane-d4	65	5.093	5.093	(1.058)	110136	51.3011	51.30
*	36 1,4-Difluorobenzene	114	5.550	5.546	(1.000)	356428	50.0000	
	37 Benzene	78	5.138	5.134	(0.926)	119511	17.7767	17.77
	38 Trichloroethene	130	5.786	5.782	(1.043)	30397	17.1246	17.12
	39 Bromodichloromethane	83	6.274	6.274	(1.130)	34205	16.1741	16.17(M)
	40 Methyl Methacrylate	41	5.820	5.820	(1.209)	12059	17.7152	17.71(a)
	41 2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	10504	29.4485	29.44
	42 1,2-Dichloropropane	63	6.007	6.004	(1.082)	32356	17.0770	17.07
	43 2-Nitropropane	43	6.506	6.502	(1.351)	6020	17.1014	17.10
	44 Dibromomethane	93	6.116	6.116	(1.102)	19390	17.6892	17.68
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	60830	33.2008	33.20
	46 cis-1,3-Dichloropropene	75	6.690	6.686	(1.205)	40176	16.2951	16.29
*	47 Chlorobenzene-d5	117	8.182	8.182	(1.000)	318679	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.846)	348747	54.4942	54.49
	49 Ethyl Methacrylate	69	7.289	7.286	(1.313)	40482	17.5551	17.55(a)
	50 Toluene	91	6.978	6.978	(0.853)	123944	17.4217	17.42
	51 trans-1,3-Dichloropropene	75	7.196	7.192	(1.296)	31281	15.5282	15.52
	52 2-Hexanone	43	7.214	7.211	(0.882)	49390	36.2508	36.25
	53 1,1,2-Trichloroethane	83	7.353	7.349	(0.899)	24701	18.1375	18.13
	54 1,3-Dichloropropane	76	7.496	7.496	(0.916)	52067	17.8535	17.85
	55 Dibromochloromethane	129	7.691	7.687	(0.940)	25225	16.3107	16.31
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	24627	17.8087	17.80
	57 1,2-Dibromoethane	107	7.780	7.781	(0.951)	27287	17.4689	17.46
	58 1-Chlorohexane	55	8.193	8.193	(1.476)	26808	17.7568	17.75
	59 Chlorobenzene	112	8.208	8.208	(1.003)	82105	18.4282	18.42
	60 1,1,1,2-Tetrachloroethane	131	8.279	8.279	(1.012)	25623	16.6396	16.63
	61 Ethylbenzene	106	8.305	8.302	(1.015)	40489	17.8211	17.82
	62 m,p-Xylenes	106	8.407	8.407	(1.027)	103641	36.7097	36.70
	63 o-Xylene	106	8.744	8.744	(1.069)	49637	18.1649	18.16
	64 Styrene	104	8.759	8.759	(1.071)	82090	18.5752	18.57
	66 Bromoform	173	8.916	8.916	(1.090)	13455	15.1220	15.12
	67 Isopropylbenzene	105	9.059	9.059	(1.107)	125343	19.3129	19.31
	68 1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	40475	17.8212	17.82
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	128404	55.4578	55.45
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	169379	50.0000	
	71 1,2,3-Trichloropropane	75	9.359	9.359	(0.920)	37890	17.2658	17.26
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.374	(1.146)	8173	16.9726	16.97(a)
	73 n-Propylbenzene	91	9.411	9.407	(0.926)	141841	18.4212	18.42
	74 Bromobenzene	156	9.314	9.314	(0.916)	34743	18.2669	18.26
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	97551	19.2396	19.23

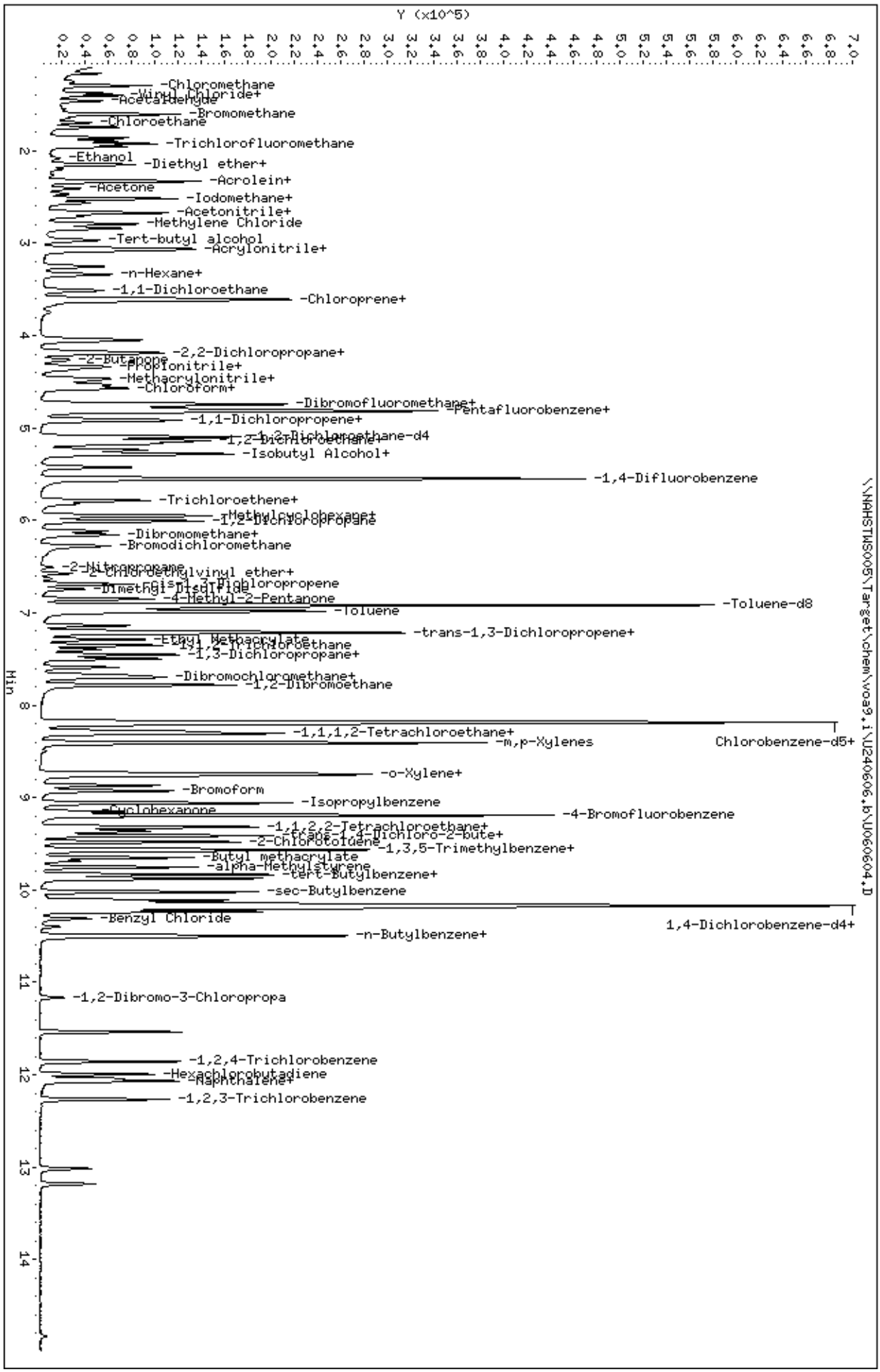
76	2-Chlorotoluene	91	9.479	9.479 (0.932)	89978	18.0208	18.02
77	4-Chlorotoluene	91	9.572	9.572 (0.941)	103862	18.0629	18.06

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060604.D Page 3
Report Date: 21-Jun-2024 17:22

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	86373	18.6432	18.64
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	96914	18.4802	18.48
81	sec-Butylbenzene	105	10.018	10.019	(0.985)	119362	19.4874	19.48
82	p-Isopropyltoluene	119	10.146	10.142	(0.998)	99962	19.2132	19.21
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	62297	17.4867	17.48
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	65651	18.5073	18.50
86	Benzyl Chloride	91	10.311	10.307	(1.260)	28050	15.1807	15.18
87	n-Butylbenzene	91	10.491	10.491	(1.032)	90820	18.5389	18.53
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	61537	18.4007	18.40
89	1,2-Dibromo-3-Chloropropane	155	11.166	11.166	(1.098)	3916	15.5840	15.58
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	36284	17.3609	17.36
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	17675	18.2310	18.23
92	Naphthalene	128	12.065	12.065	(1.187)	80821	16.4564	16.45
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	33990	17.4148	17.41
146	Methyl acetate	43	2.712	2.705	(0.563)	32138	17.2551	17.25
138	Freon TF	101	2.330	2.326	(0.484)	22980	19.1524	19.15
141	Cyclohexane	56	4.778	4.778	(0.992)	42003	19.3284	19.32
142	Tetrahydrofuran	42	4.542	4.534	(0.943)	10842	33.7872	33.78
147	Methylcyclohexane	55	5.947	5.944	(1.072)	69579	16.9693	16.96
135	1,4-Dioxane	88	6.165	6.161	(1.280)	7335	393.296	393.29
132	n-Butanol	56	5.824	5.820	(1.209)	16469	351.139	351.13(a)
136	n-Hexane	57	3.338	3.335	(0.693)	28723	19.0653	19.06
139	Diethyl ether	59	2.142	2.139	(0.445)	22451	18.5501	18.55
148	Tert-butyl alcohol	59	2.967	2.963	(0.616)	52471	355.943	355.94
149	Isopropyl alcohol	45	2.562	2.559	(0.532)	41955	353.508	353.50
156	Diisopropyl ether	45	3.619	3.612	(0.752)	103551	18.9167	18.91
162	Butyl acrylate	55	8.733	8.729	(1.067)	51624	16.4101	16.41
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	149127	19.1205	19.12
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	95857	18.5653	18.56
167	Ethanol	45	2.082	2.079	(0.433)	8443	383.393	383.39
172	tert-Butyl formate	59	5.239	5.239	(1.088)	48211	33.5487	33.54
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	159232	330.539	330.53
140	1,3-Butadiene	54	1.400	1.397	(0.291)	15093	18.8818	18.88
182	Epichlorohydrin	57	6.630	6.626	(1.195)	5892	63.8175	63.81
M 94	1,2-Dichloroethylene (total)	96				59498	32.7634	32.76
M 95	Xylenes (total)	106				153278	54.3680	54.36
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	36468	17.6833	17.68
131	Methyl Acrylate	55	4.369	4.362	(0.907)	34146	17.6926	17.69
134	Cyclohexanone	55	9.153	9.153	(0.900)	29439	400.821	400.82(a)
185	Isoprene	39	2.154	2.146	(0.447)	6765	16.5275	16.52
188	Isopropyl acetate	43	5.280	5.280	(0.951)	83823	16.8207	16.82
150	Allyl alcohol	57	3.338	3.335	(0.693)	28723	381.307	381.30
194	Acetaldehyde	44	1.460	1.453	(0.303)	48694	133.586	133.58
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	14129	17.1339	17.13
133	Ethyl Acrylate	55	5.947	5.944	(1.235)	69579	16.8597	16.85
163	Butyl methacrylate	41	9.647	9.647	(0.949)	41014	23.5419	23.54
159	Propylene oxide	43	2.199	2.195	(0.457)	5855	42.7218	42.72
203	2-Ethylhexyl Acrylate	55	12.043	12.039	(1.184)	27291	16.6313	16.63
204	Tetrahydrothiophene	60	7.672	7.668	(0.938)	26705	17.6775	17.67(A)
205	sec-Butyl Ether	57	7.214	7.214	(0.882)	38884	9.96410	9.96(A)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060604.D
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Sample Info: VLCSDW-240606;VLCSDW-240606;3;;LCSD
Purge Volume: 5.0
Column phase: DB624

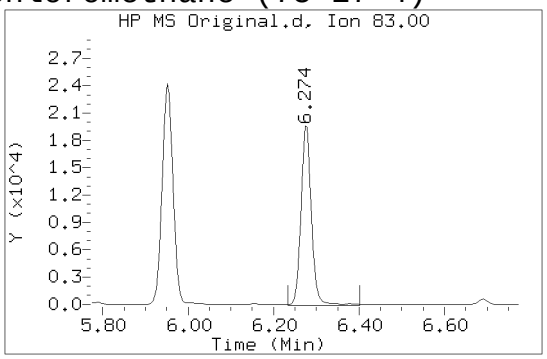
Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

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InstruID : VOA9.i
LabSampID : VLCSDW-240606

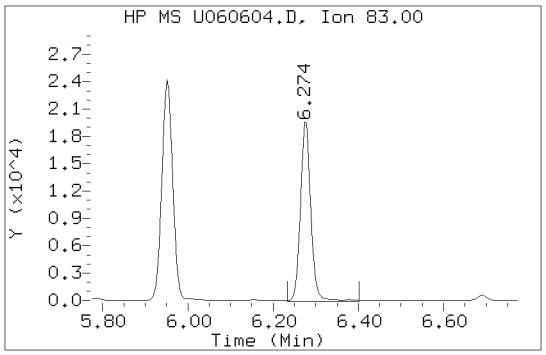
Bromodichloromethane (75-27-4)

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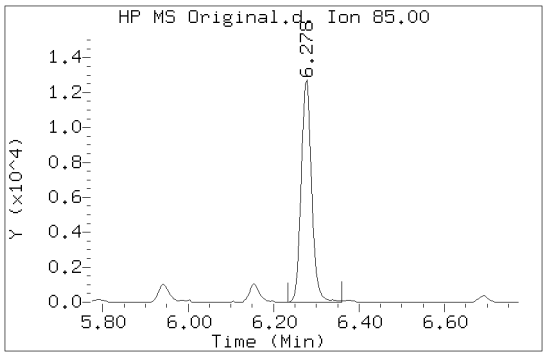
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21-Jun-2024
17:22
RUCHA
PATEL



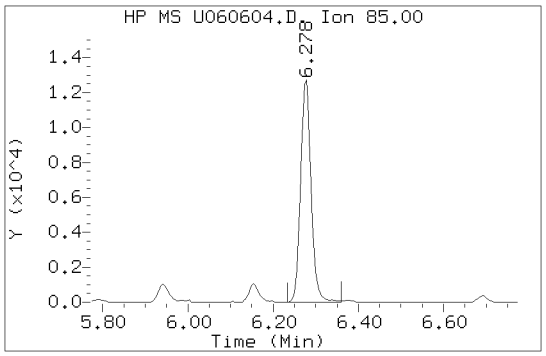
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21-Jun-2024
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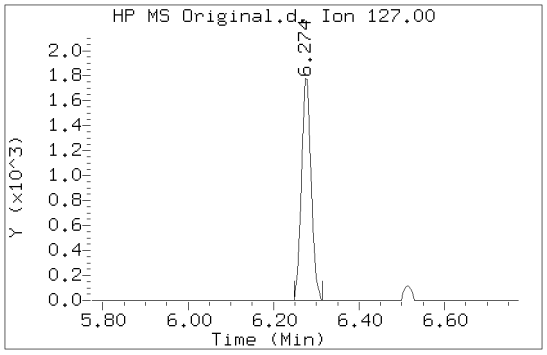
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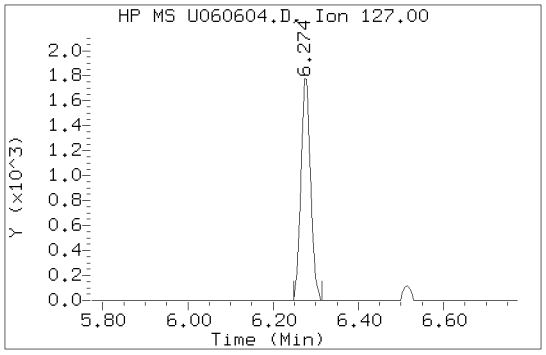
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AFTER
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Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060606.D Page 1
Report Date: 21-Jun-2024 17:22

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060606.D
Lab Smp Id: VBLKW-240606 Client Smp ID: VBLKW-240606
Inj Date : 06-JUN-2024 12:16
Operator : TS Inst ID: VOA9.i
Smp Info : VBLKW-240606;VBLKW-240606;3;;BLANK
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240606.b\8260C.m
Meth Date : 21-Jun-2024 17:22 VOA9.i Quant Type: ISTD
Cal Date : 05-JUN-2024 20:24 Cal File: W060506.D
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.815	4.812	(1.000)	235132	50.0000	
$ 30 Dibromofluoromethane	113	4.748	4.740	(0.986)	86409	50.9841	50.98
$ 35 1,2-Dichloroethane-d4	65	5.096	5.093	(1.058)	111348	53.8890	53.88
* 36 1,4-Difluorobenzene	114	5.554	5.546	(1.000)	345676	50.0000	
* 47 Chlorobenzene-d5	117	8.185	8.182	(1.000)	308803	50.0000	
$ 48 Toluene-d8	98	6.922	6.918	(0.846)	336409	54.2474	54.24
$ 69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	116935	52.1196	52.11
* 70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	156761	50.0000	

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060606.D

Date : 06-JUN-2024 12:16

Client ID: VBLKW-240606

Instrument: VOA9.i

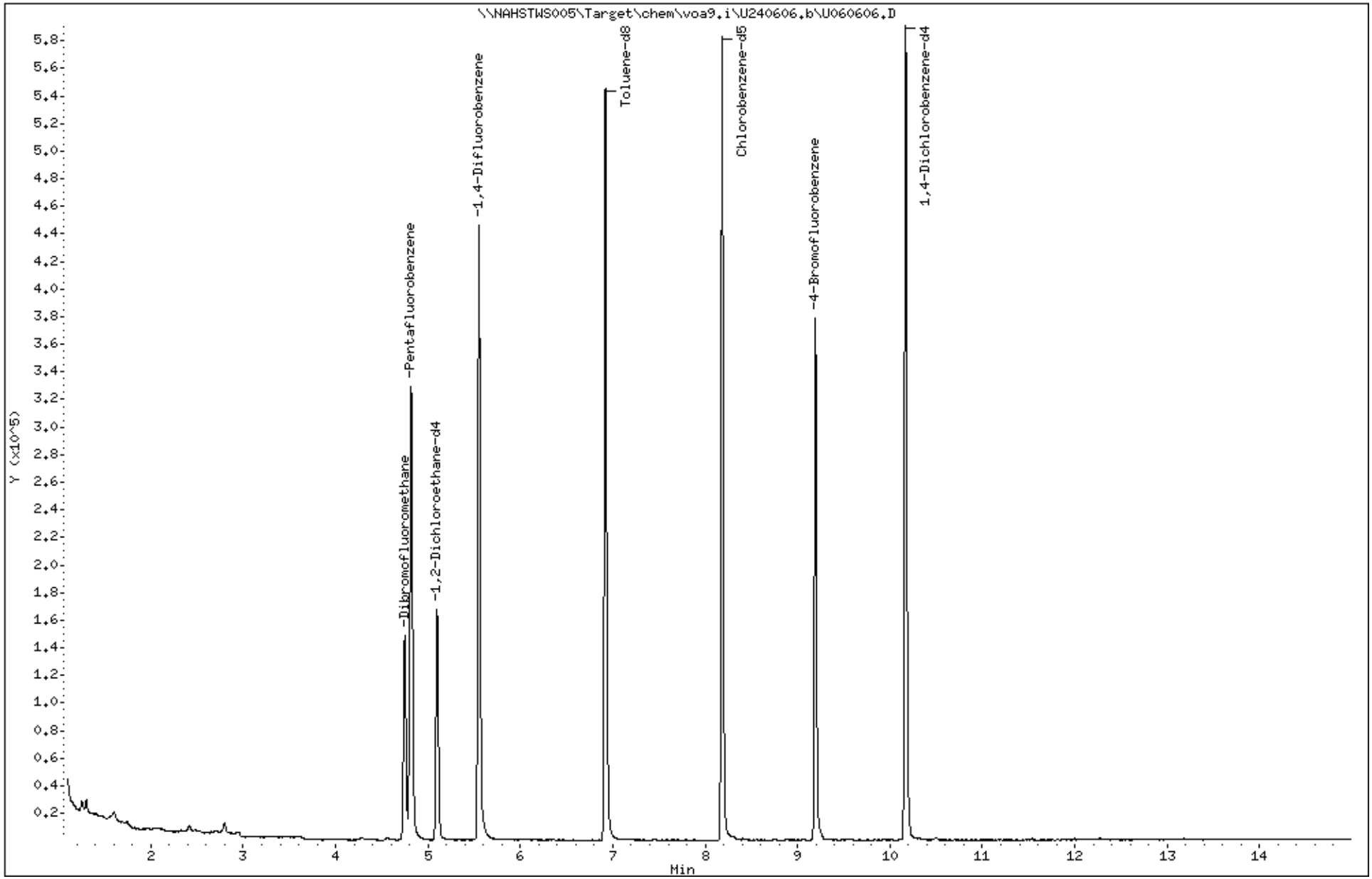
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Purge Volume: 5.0

Operator: TS

Column phase: DB624

Column diameter: 0.18



Data File : \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060606.D
Inj Date : 06-JUN-2024 12:16
InstruID : VOA9.i
LabSampID : VBLKW-240606

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060608.D Page 1
Report Date: 21-Jun-2024 17:22

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060608.D
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Inj Date : 06-JUN-2024 12:59
Operator : TS Inst ID: VOA9.i
Smp Info : HS24051959-07MS;HS24051959-07MS;3;;MS
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240606.b\8260C.m
Meth Date : 21-Jun-2024 17:22 VOA9.i Quant Type: ISTD
Cal Date : 05-JUN-2024 20:24 Cal File: W060506.D
Als bottle: 7 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1	Pentafluorobenzene	168	4.811	4.812	(1.000)	241452	50.0000	
2	Dichlorodifluoromethane	85	1.156	1.157	(0.240)	14316	19.5908	19.59
3	Chloromethane	50	1.291	1.288	(0.268)	53921	17.1406	17.14
4	Propionitrile	54	4.332	4.328	(0.900)	39985	171.854	171.85(a)
5	Vinyl Chloride	62	1.370	1.370	(0.285)	29082	17.7372	17.73
6	Bromomethane	94	1.599	1.599	(0.332)	12766	16.8313	16.83
7	Chloroethane	64	1.689	1.685	(0.351)	19644	16.4455	16.44
8	Trichlorofluoromethane	101	1.887	1.884	(0.392)	37354	17.6683	17.66
9	Acrolein	56	2.259	2.255	(0.469)	2181	25.3463	25.34
10	Acetone	43	2.401	2.401	(0.499)	21443	30.5187	30.51
11	1,1-Dichloroethene	96	2.326	2.322	(0.483)	29400	21.2307	21.23
12	Isobutyl Alcohol	43	5.280	5.280	(1.097)	79263	308.661	308.66(a)
13	Acetonitrile	39	2.663	2.664	(0.554)	37397	188.382	188.38(a)
14	Allyl Chloride	41	2.667	2.664	(0.554)	82814	18.3372	18.33(a)
15	Iodomethane	142	2.461	2.457	(0.512)	13318	44.6091	44.60
16	Acrylonitrile	53	3.061	3.057	(0.636)	21252	34.1061	34.10
17	Methylene Chloride	84	2.787	2.787	(0.579)	27750	15.7227	15.72
18	Methyl tert-butyl ether	73	3.076	3.072	(0.639)	72957	17.7111	17.71
19	Carbon Disulfide	76	2.513	2.510	(0.522)	120939	30.4715	30.47
20	trans-1,2-Dichloroethene	96	3.050	3.050	(0.634)	24097	16.3041	16.30

21 Vinyl Acetate	43	4.335	4.332 (0.901)	28877	30.9197	30.91
22 1,1-Dichloroethane	63	3.507	3.503 (0.729)	60543	20.6793	20.67

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060608.D Page 2
Report Date: 21-Jun-2024 17:22

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	23 Chloroprene	53	3.601	3.601	(0.748)	38700	15.7219	15.72
	24 2-Butanone	43	4.260	4.257	(0.885)	28837	31.8760	31.87
	25 Methacrylonitrile	41	4.489	4.485	(0.933)	18112	17.9296	17.92(a)
	26 2,2-Dichloropropane	77	4.174	4.174	(0.868)	32249	15.6965	15.69
	27 cis-1,2-Dichloroethene	96	4.189	4.189	(0.871)	29647	16.7527	16.75
	28 Chloroform	83	4.568	4.568	(0.949)	48162	15.1346	15.13
	29 Bromochloromethane	128	4.463	4.463	(0.928)	14047	15.8229	15.82
$	30 Dibromofluoromethane	113	4.744	4.740	(0.986)	90132	51.7888	51.78
	31 1,1,1-Trichloroethane	97	4.736	4.737	(0.984)	37629	16.4684	16.46
	32 1,1-Dichloropropene	75	4.916	4.917	(0.886)	36780	15.9564	15.95
	33 1,2-Dichloroethane	62	5.171	5.171	(0.932)	39846	15.7172	15.71
	34 Carbon Tetrachloride	117	4.905	4.905	(0.884)	30133	15.8425	15.84
$	35 1,2-Dichloroethane-d4	65	5.093	5.093	(1.058)	112513	53.0275	53.02
*	36 1,4-Difluorobenzene	114	5.550	5.546	(1.000)	356892	50.0000	
	37 Benzene	78	5.134	5.134	(0.925)	108362	16.1093	16.10
	38 Trichloroethene	130	5.782	5.782	(1.042)	29292	16.4806	16.48
	39 Bromodichloromethane	83	6.273	6.274	(1.130)	29294	13.8339	13.83
	40 Methyl Methacrylate	41	5.824	5.820	(1.210)	11047	16.5877	16.58(a)
	42 1,2-Dichloropropane	63	6.003	6.004	(1.082)	29247	15.4091	15.40
	43 2-Nitropropane	43	6.502	6.502	(1.351)	5734	16.4814	16.48
	44 Dibromomethane	93	6.116	6.116	(1.102)	16776	15.2597	15.25
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	57300	31.0919	31.09
	46 cis-1,3-Dichloropropene	75	6.690	6.686	(1.205)	32902	13.7751	13.77
*	47 Chlorobenzene-d5	117	8.181	8.182	(1.000)	322426	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.846)	352174	54.3902	54.39
	49 Ethyl Methacrylate	69	7.289	7.286	(1.313)	37024	16.0347	16.03(a)
	50 Toluene	91	6.978	6.978	(0.853)	115659	16.0682	16.06
	51 trans-1,3-Dichloropropene	75	7.196	7.192	(1.296)	26307	13.4617	13.46
	52 2-Hexanone	43	7.214	7.211	(0.882)	49241	35.7003	35.70
	53 1,1,2-Trichloroethane	83	7.353	7.349	(0.899)	21959	15.9111	15.91
	54 1,3-Dichloropropane	76	7.495	7.496	(0.916)	45709	15.4848	15.48
	55 Dibromochloromethane	129	7.690	7.687	(0.940)	21561	14.0738	14.07
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	25490	18.2186	18.21
	57 1,2-Dibromoethane	107	7.780	7.781	(0.951)	23435	14.9165	14.91
	58 1-Chlorohexane	55	8.193	8.193	(1.476)	27394	18.1241	18.12
	59 Chlorobenzene	112	8.208	8.208	(1.003)	73951	16.3900	16.39
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.279	(1.012)	23770	15.2569	15.25
	61 Ethylbenzene	106	8.305	8.302	(1.015)	38594	16.7896	16.78
	62 m,p-Xylenes	106	8.406	8.407	(1.027)	98782	34.5820	34.58
	63 o-Xylene	106	8.744	8.744	(1.069)	47947	17.3425	17.34
	64 Styrene	104	8.759	8.759	(1.071)	74157	16.5851	16.58
	66 Bromoform	173	8.916	8.916	(1.090)	11914	13.6739	13.67
	67 Isopropylbenzene	105	9.059	9.059	(1.107)	123449	18.8000	18.80
	68 1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	35995	15.7188	15.71
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	129723	55.3764	55.37
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	170439	50.0000	
	71 1,2,3-Trichloropropane	75	9.359	9.359	(0.920)	34481	15.7362	15.73
	72 trans-1,4-Dichloro-2-butene	53	9.374	9.374	(1.146)	6183	12.8644	12.86(a)
	73 n-Propylbenzene	91	9.411	9.407	(0.926)	146894	18.9588	18.95
	74 Bromobenzene	156	9.314	9.314	(0.916)	32200	16.8483	16.84
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	95379	18.6943	18.69
	76 2-Chlorotoluene	91	9.479	9.479	(0.932)	86835	17.2831	17.28

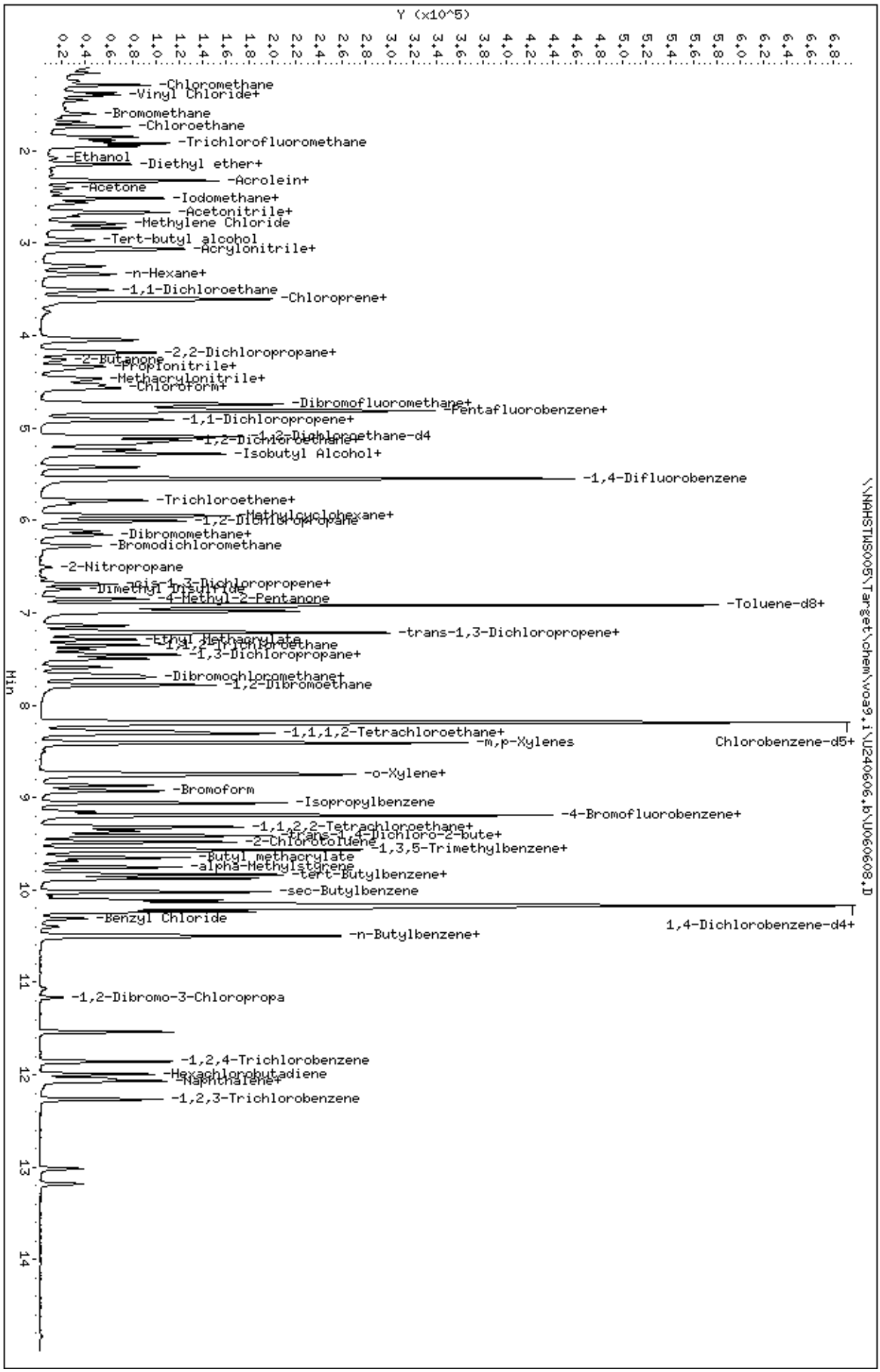
77	4-Chlorotoluene	91	9.572	9.572 (0.941)	101246	17.4984	17.49
78	tert-Butylbenzene	119	9.835	9.835 (0.967)	89854	19.2740	19.27

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060608.D Page 3
Report Date: 21-Jun-2024 17:22

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	93883	17.7909	17.79
81	sec-Butylbenzene	105	10.018	10.019	(0.985)	123446	20.0288	20.02
82	p-Isopropyltoluene	119	10.146	10.142	(0.998)	101999	19.4828	19.48
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	58449	16.3046	16.30
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	63153	17.6858	17.68
86	Benzyl Chloride	91	10.307	10.307	(1.260)	25906	13.9834	13.98
87	n-Butylbenzene	91	10.491	10.491	(1.032)	89967	18.2773	18.27
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	58531	17.3919	17.39
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.166	(1.098)	3911	15.4795	15.47
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	34831	16.6428	16.64
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	17192	17.6225	17.62
92	Naphthalene	128	12.065	12.065	(1.187)	71270	14.6552	14.65
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	31868	16.2261	16.22
146	Methyl acetate	43	2.708	2.705	(0.563)	30100	16.2722	16.27
138	Freon TF	101	2.326	2.326	(0.483)	23436	19.7632	19.76
141	Cyclohexane	56	4.778	4.778	(0.993)	42372	19.7235	19.72
142	Tetrahydrofuran	42	4.538	4.534	(0.943)	9930	31.2404	31.24
147	Methylcyclohexane	55	5.944	5.944	(1.071)	72562	17.6738	17.67
135	1,4-Dioxane	88	6.165	6.161	(1.281)	6555	355.640	355.63
132	n-Butanol	56	5.824	5.820	(1.210)	14606	320.820	320.82(a)
136	n-Hexane	57	3.334	3.335	(0.693)	30180	20.2286	20.22
139	Diethyl ether	59	2.139	2.139	(0.445)	21819	18.2396	18.23
148	Tert-butyl alcohol	59	2.963	2.963	(0.616)	48806	335.509	335.50
149	Isopropyl alcohol	45	2.562	2.559	(0.533)	39900	340.450	340.45
156	Diisopropyl ether	45	3.616	3.612	(0.751)	102191	18.8892	18.88
162	Butyl acrylate	55	8.733	8.729	(1.067)	48125	15.1201	15.12
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	152951	19.4704	19.47
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	92019	17.7520	17.75
167	Ethanol	45	2.079	2.079	(0.432)	7694	352.649	352.64
172	tert-Butyl formate	59	5.235	5.239	(1.088)	43317	30.5490	30.54
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	148695	312.066	312.06
140	1,3-Butadiene	54	1.396	1.397	(0.290)	13773	17.4721	17.47
182	Epichlorohydrin	57	6.630	6.626	(1.195)	4073	44.6995	44.69
M 94	1,2-Dichloroethylene (total)	96				53744	29.9446	29.94
M 95	Xylenes (total)	106				146729	51.9774	51.97
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	33060	15.9310	15.93
131	Methyl Acrylate	55	4.365	4.362	(0.907)	31877	16.7536	16.75
189	n-Butyl acetate	43	7.672	7.589	(0.938)	3759	1.55884	1.55(a)
134	Cyclohexanone	55	9.152	9.153	(0.900)	18796	249.198	249.19(a)
185	Isoprene	39	2.146	2.146	(0.446)	6828	16.8786	16.87
188	Isopropyl acetate	43	5.280	5.280	(0.951)	79667	15.9853	15.98
150	Allyl alcohol	57	3.334	3.335	(0.693)	30180	404.571	404.57
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	13257	16.0149	16.01
133	Ethyl Acrylate	55	5.944	5.944	(1.235)	72562	17.7902	17.79
163	Butyl methacrylate	41	9.647	9.647	(0.949)	33028	18.7434	18.74
203	2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	25147	15.3538	15.35
204	Tetrahydrothiophene	60	7.672	7.668	(0.938)	23234	15.2011	15.20(A)
205	sec-Butyl Ether	57	7.214	7.214	(0.882)	38441	9.73610	9.73(A)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
    exceeded maximum amount.



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060608.D
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Client ID: HS24051959-07MS
Sample Info: HS24051959-07MS;HS24051959-07MS;3;;MS
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060608.D
Inj Date : 06-JUN-2024 12:59
InstruID : VOA9.i
LabSampID : HS24051959-07MS

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060609.D Page 1
Report Date: 21-Jun-2024 17:22

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060609.D
Lab Smp Id: HS24051959-07MSD Client Smp ID: HS24051959-07MSD
Inj Date : 06-JUN-2024 13:20
Operator : TS Inst ID: VOA9.i
Smp Info : HS24051959-07MSD;HS24051959-07MSD;3;;MSD
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240606.b\8260C.m
Meth Date : 21-Jun-2024 17:22 VOA9.i Quant Type: ISTD
Cal Date : 05-JUN-2024 20:24 Cal File: W060506.D
Als bottle: 7 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1	Pentafluorobenzene	168	4.819	4.812	(1.000)	239403	50.0000	
2	Dichlorodifluoromethane	85	1.171	1.157	(0.243)	13438	18.5892	18.58
3	Chloromethane	50	1.303	1.288	(0.270)	52432	16.7408	16.74
4	Propionitrile	54	4.339	4.328	(0.900)	38967	168.937	168.93(a)
5	Vinyl Chloride	62	1.385	1.370	(0.287)	27485	16.9067	16.90
6	Bromomethane	94	1.614	1.599	(0.335)	12340	16.3949	16.39
7	Chloroethane	64	1.700	1.685	(0.353)	19364	16.3488	16.34
8	Trichlorofluoromethane	101	1.899	1.884	(0.394)	35783	17.0700	17.07
9	Acrolein	56	2.270	2.255	(0.471)	2103	24.5308	24.53
10	Acetone	43	2.416	2.401	(0.501)	20196	28.7751	28.77
11	1,1-Dichloroethene	96	2.337	2.322	(0.485)	27764	20.2209	20.22
12	Isobutyl Alcohol	43	5.284	5.280	(1.096)	78142	306.900	306.90(a)
13	Acetonitrile	39	2.675	2.664	(0.555)	35500	180.432	180.43(a)
14	Allyl Chloride	41	2.678	2.664	(0.556)	79955	17.8576	17.85(a)
15	Iodomethane	142	2.472	2.457	(0.513)	12799	43.2588	43.25
16	Acrylonitrile	53	3.068	3.057	(0.637)	20676	33.4380	33.43
17	Methylene Chloride	84	2.798	2.787	(0.581)	26349	14.9978	14.99
18	Methyl tert-butyl ether	73	3.083	3.072	(0.640)	72595	17.7742	17.77
19	Carbon Disulfide	76	2.525	2.510	(0.524)	115905	29.4531	29.45
20	trans-1,2-Dichloroethene	96	3.064	3.050	(0.636)	23565	16.0816	16.08

22 1,1-Dichloroethane	63	3.518	3.503 (0.730)	58848	20.2662	20.26
23 Chloroprene	53	3.612	3.601 (0.750)	37494	15.3623	15.36

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060609.D Page 2
Report Date: 21-Jun-2024 17:22

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	24 2-Butanone	43	4.268	4.257	(0.886)	28576	31.8575	31.85
	25 Methacrylonitrile	41	4.500	4.485	(0.934)	15841	15.9890	15.98(a)
	26 2,2-Dichloropropane	77	4.185	4.174	(0.869)	30865	15.1514	15.15
	27 cis-1,2-Dichloroethene	96	4.200	4.189	(0.872)	28972	16.5138	16.51
	28 Chloroform	83	4.575	4.568	(0.949)	46118	14.6163	14.61
	29 Bromochloromethane	128	4.470	4.463	(0.928)	13445	15.2565	15.25
$	30 Dibromofluoromethane	113	4.751	4.740	(0.986)	89367	51.7887	51.78
	31 1,1,1-Trichloroethane	97	4.744	4.737	(0.984)	35722	15.7676	15.76
	32 1,1-Dichloropropene	75	4.924	4.917	(0.887)	35257	15.6339	15.63
	33 1,2-Dichloroethane	62	5.175	5.171	(0.932)	39522	15.9431	15.94
	34 Carbon Tetrachloride	117	4.913	4.905	(0.885)	29040	15.6055	15.60
$	35 1,2-Dichloroethane-d4	65	5.096	5.093	(1.058)	110581	52.5630	52.56
*	36 1,4-Difluorobenzene	114	5.554	5.546	(1.000)	349170	50.0000	
	37 Benzene	78	5.141	5.134	(0.926)	104105	15.8210	15.82
	38 Trichloroethene	130	5.790	5.782	(1.043)	28322	16.2873	16.28
	39 Bromodichloromethane	83	6.277	6.274	(1.130)	28076	13.5519	13.55
	40 Methyl Methacrylate	41	5.824	5.820	(1.208)	11313	17.0573	17.05(a)
	42 1,2-Dichloropropane	63	6.007	6.004	(1.082)	27935	15.0417	15.04
	43 2-Nitropropane	43	6.506	6.502	(1.350)	5259	15.2454	15.24
	44 Dibromomethane	93	6.120	6.116	(1.102)	16213	15.0715	15.07
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	56438	31.2719	31.27
	46 cis-1,3-Dichloropropene	75	6.689	6.686	(1.205)	31703	13.6039	13.60
*	47 Chlorobenzene-d5	117	8.185	8.182	(1.000)	315580	50.0000	
$	48 Toluene-d8	98	6.922	6.918	(0.846)	346843	54.7289	54.72
	49 Ethyl Methacrylate	69	7.289	7.286	(1.312)	38079	16.8563	16.85(a)
	50 Toluene	91	6.978	6.978	(0.853)	112092	15.9105	15.91
	51 trans-1,3-Dichloropropene	75	7.196	7.192	(1.296)	26077	13.6046	13.60
	52 2-Hexanone	43	7.214	7.211	(0.881)	48275	35.7616	35.76
	53 1,1,2-Trichloroethane	83	7.353	7.349	(0.898)	21581	15.9773	15.97
	54 1,3-Dichloropropane	76	7.495	7.496	(0.916)	45273	15.6704	15.67
	55 Dibromochloromethane	129	7.690	7.687	(0.940)	21017	14.0241	14.02
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	24448	17.8529	17.85
	57 1,2-Dibromoethane	107	7.784	7.781	(0.951)	23038	14.9794	14.97
	58 1-Chlorohexane	55	8.193	8.193	(1.475)	26389	17.8433	17.84
	59 Chlorobenzene	112	8.208	8.208	(1.003)	70947	16.0626	16.06
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.279	(1.012)	22294	14.6200	14.61
	61 Ethylbenzene	106	8.305	8.302	(1.015)	37639	16.7294	16.72
	62 m,p-Xylenes	106	8.406	8.407	(1.027)	96469	34.5049	34.50
	63 o-Xylene	106	8.744	8.744	(1.068)	46114	17.0413	17.04
	64 Styrene	104	8.759	8.759	(1.070)	72901	16.6579	16.65
	66 Bromoform	173	8.916	8.916	(1.089)	11842	13.8314	13.83
	67 Isopropylbenzene	105	9.059	9.059	(1.107)	121225	18.8618	18.86
	68 1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	36642	16.0657	16.06
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	129444	56.4560	56.45
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	169818	50.0000	
	71 1,2,3-Trichloropropane	75	9.359	9.359	(0.920)	34674	15.8703	15.87
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.374	(1.146)	7316	15.4082	15.40(a)
	73 n-Propylbenzene	91	9.411	9.407	(0.926)	140866	18.2473	18.24
	74 Bromobenzene	156	9.317	9.314	(0.916)	31322	16.4559	16.45
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	95407	18.7681	18.76
	76 2-Chlorotoluene	91	9.478	9.479	(0.932)	85675	17.1146	17.11
	77 4-Chlorotoluene	91	9.572	9.572	(0.941)	98404	17.0694	17.06

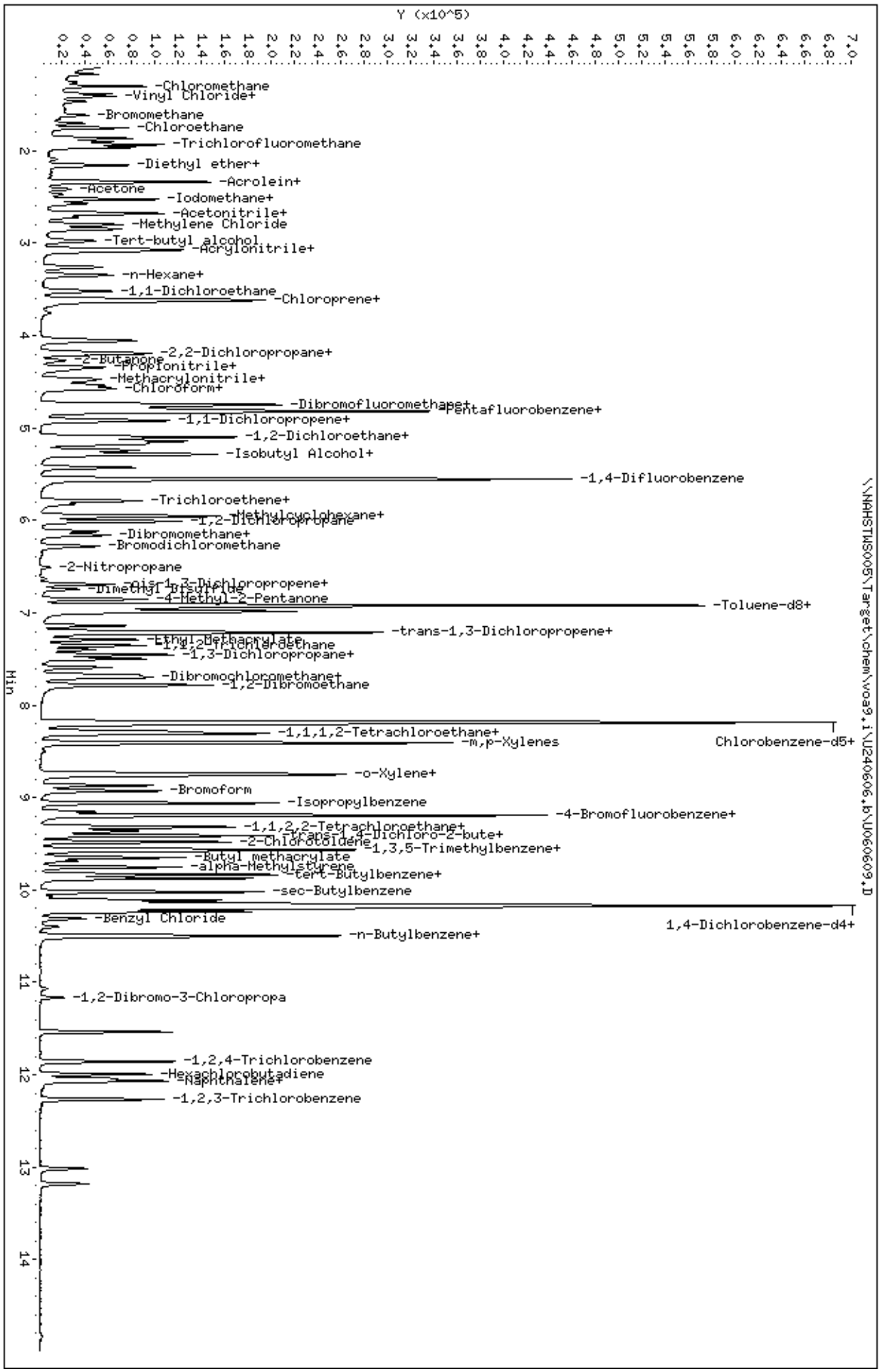
78	tert-Butylbenzene	119	9.835	9.835 (0.967)	87701	18.8809	18.88
79	1,2,4-Trimethylbenzene	105	9.876	9.876 (0.971)	93811	17.8423	17.84

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
81	sec-Butylbenzene	105	10.018	10.019	(0.985)	120448	19.6138	19.61
82	p-Isopropyltoluene	119	10.146	10.142	(0.998)	100176	19.2046	19.20
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	58763	16.4521	16.45
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	61610	17.3136	17.31
86	Benzyl Chloride	91	10.311	10.307	(1.260)	25163	13.8879	13.88
87	n-Butylbenzene	91	10.491	10.491	(1.032)	89110	18.1795	18.17
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	58826	17.5436	17.54
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.166	(1.098)	3862	15.3560	15.35
90	1,2,4-Trichlorobenzene	180	11.859	11.855	(1.166)	34941	16.7444	16.74
91	Hexachlorobutadiene	225	11.998	11.994	(1.180)	16711	17.1921	17.19
92	Naphthalene	128	12.065	12.065	(1.187)	74756	15.3285	15.32
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	32314	16.5133	16.51
146	Methyl acetate	43	2.720	2.705	(0.564)	29770	16.2277	16.22
138	Freon TF	101	2.341	2.326	(0.486)	22061	18.7629	18.76
141	Cyclohexane	56	4.785	4.778	(0.993)	40034	18.8063	18.80
142	Tetrahydrofuran	42	4.545	4.534	(0.943)	10186	32.3532	32.35
147	Methylcyclohexane	55	5.947	5.944	(1.071)	70746	17.6126	17.61
135	1,4-Dioxane	88	6.168	6.161	(1.280)	6814	372.849	372.84
132	n-Butanol	56	5.827	5.820	(1.209)	14451	320.252	320.25(a)
136	n-Hexane	57	3.346	3.335	(0.694)	29302	19.8215	19.82
139	Diethyl ether	59	2.150	2.139	(0.446)	20204	17.0291	17.02
148	Tert-butyl alcohol	59	2.975	2.963	(0.617)	49438	342.573	342.57
149	Isopropyl alcohol	45	2.570	2.559	(0.533)	39367	338.814	338.81
156	Diisopropyl ether	45	3.623	3.612	(0.752)	97766	18.2343	18.23
162	Butyl acrylate	55	8.732	8.729	(1.067)	47428	15.2243	15.22
164	Dicyclopentadiene	66	10.194	10.198	(1.003)	148635	19.0138	19.01
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	92932	17.9816	17.98
167	Ethanol	45	2.090	2.079	(0.434)	7833	362.388	362.38
172	tert-Butyl formate	59	5.242	5.239	(1.088)	43832	31.1655	31.16
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.299)	149381	318.926	318.92
140	1,3-Butadiene	54	1.408	1.397	(0.292)	13266	16.9871	16.98
182	Epichlorohydrin	57	6.633	6.626	(1.194)	4075	45.6690	45.66
M 94	1,2-Dichloroethylene (total)	96				52537	29.5226	29.52
M 95	Xylenes (total)	106				142583	51.6257	51.62
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	32892	15.9080	15.90
131	Methyl Acrylate	55	4.373	4.362	(0.907)	31488	16.6936	16.69
189	n-Butyl acetate	43	7.672	7.589	(0.937)	3201	1.35624	1.35(a)
134	Cyclohexanone	55	9.152	9.153	(0.900)	19465	259.620	259.62(a)
185	Isoprene	39	2.161	2.146	(0.449)	6511	16.2327	16.23
188	Isopropyl acetate	43	5.284	5.280	(0.951)	77963	15.9893	15.98
150	Allyl alcohol	57	3.346	3.335	(0.694)	29302	396.430	396.43
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	12544	15.5375	15.53
133	Ethyl Acrylate	55	5.947	5.944	(1.234)	70746	17.4934	17.49
163	Butyl methacrylate	41	9.647	9.647	(0.949)	37817	21.6166	21.61
203	2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	25281	15.4790	15.47
204	Tetrahydrothiophene	60	7.672	7.668	(0.937)	24116	16.1204	16.12(A)
205	sec-Butyl Ether	57	7.214	7.214	(0.881)	37394	9.67638	9.67(A)

QC Flag Legend

a - Target compound detected but, quantitated amount

Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060609.D
Date : 06-JUN-2024 13:20
Client ID: HS24051959-07MSD
Sample Info: HS24051959-07MSD;HS24051959-07MSD;3;;MSD
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060609.D
Inj Date : 06-JUN-2024 13:20
InstruID : VOA9.i
LabSampID : HS24051959-07MSD

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060610.D Page 1
Report Date: 24-Jun-2024 09:20

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060610.D
Lab Smp Id: HS24051535-03
Inj Date : 06-JUN-2024 13:44
Operator : TS   Inst ID: VOA9.i
Smp Info : HS24051535-03
Misc Info : V9;WATER;0;25;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240606.b\8260C.m
Meth Date : 24-Jun-2024 09:19 r.patel   Quant Type: ISTD
Cal Date : 05-JUN-2024 20:24   Cal File: W060506.D
Als bottle: 8
Dil Factor: 25.00000
Integrator: HP RTE   Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

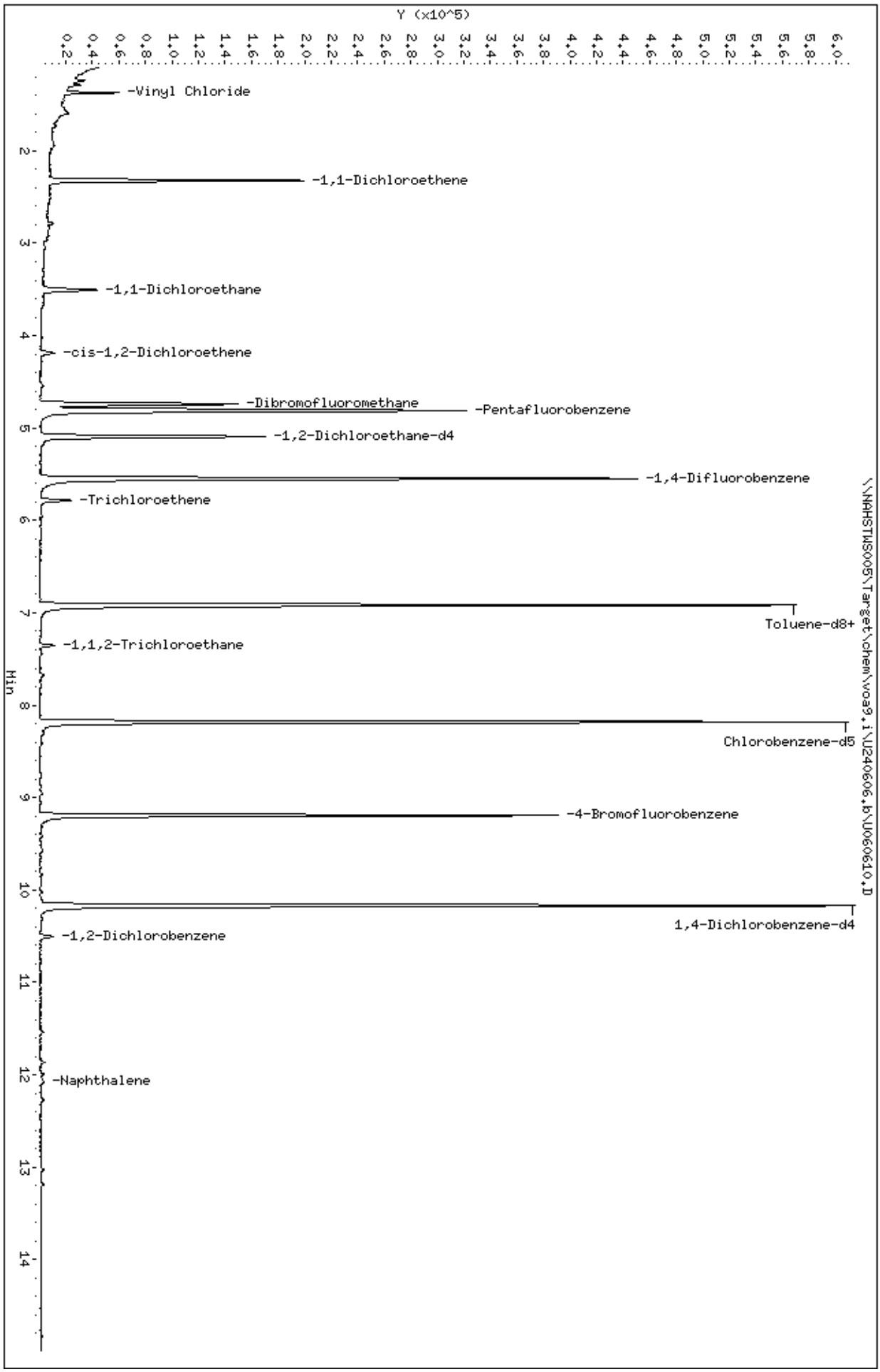
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	25.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
*	1 Pentafluorobenzene	168	4.811	4.812	(1.000)	238508	50.0000	
	5 Vinyl Chloride	62	1.370	1.374	(0.285)	25918	16.0026	400.06(H)
	11 1,1-Dichloroethene	96	2.322	2.326	(0.483)	62061	45.3695	1134.23
	22 1,1-Dichloroethane	63	3.503	3.507	(0.728)	40983	14.0707	351.76
	27 cis-1,2-Dichloroethene	96	4.189	4.189	(0.871)	4913	2.95245	73.81
$	30 Dibromofluoromethane	113	4.740	4.744	(0.985)	87858	51.1053	51.10
$	35 1,2-Dichloroethane-d4	65	5.089	5.093	(1.058)	113751	54.2727	54.27
*	36 1,4-Difluorobenzene	114	5.546	5.550	(1.000)	350016	50.0000	
	38 Trichloroethene	130	5.782	5.786	(1.043)	7273	4.17241	104.31(a)
*	47 Chlorobenzene-d5	117	8.181	8.182	(1.000)	318272	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.846)	345333	54.0297	54.02
	49 Ethyl Methacrylate	69	6.918	7.289	(1.247)	1369	0.60454	15.11(a)
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	2529	1.66990	41.74(aH)
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	119815	51.8144	51.81
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	161314	50.0000	
	88 1,2-Dichlorobenzene	146	10.506	10.502	(1.033)	3373	1.03972	25.99(a)
	92 Naphthalene	128	12.076	12.065	(1.188)	2199	2.30724	57.68(a)
M	94 1,2-Dichloroethylene (total)	96				4913	2.77117	69.27(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
H - Operator selected an alternate compound hit.



Data File: \\NAHSTWS005\Target\chem\voa9,i\U240606,b\U060610.D
Date : 06-JUN-2024 13:44
Client ID:
Sample Info: HS24051535-03
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: TS
Column diameter: 0.18

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060610.D

Date : 06-JUN-2024 13:44

Client ID:

Instrument: VOA9.i

Sample Info: HS24051535-03

Purge Volume: 5.0

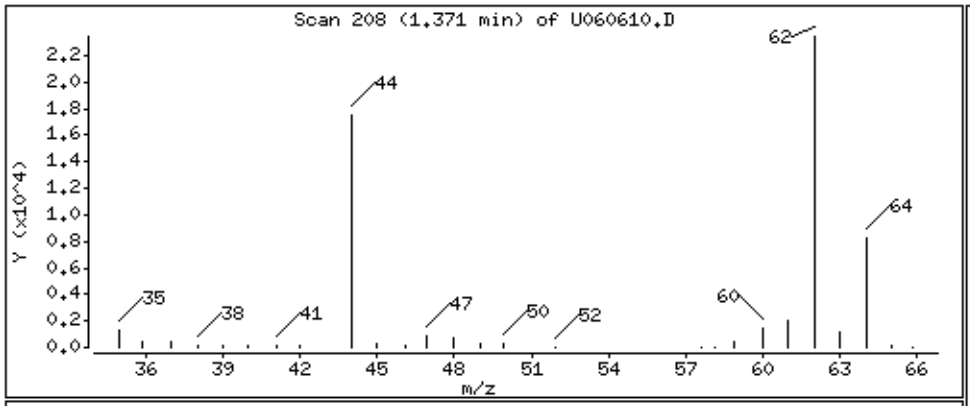
Operator: TS

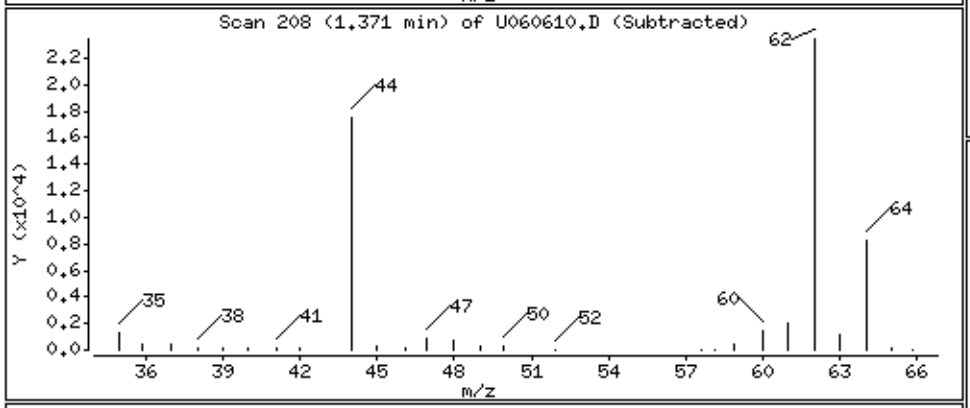
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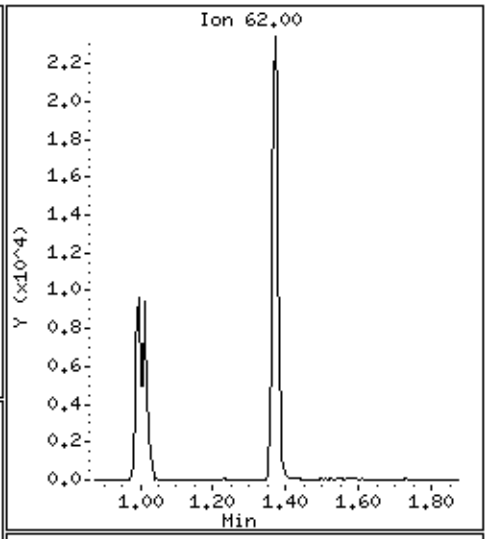
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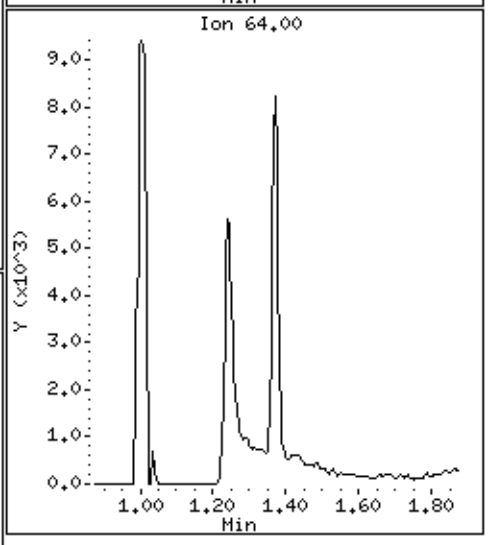
5 Vinyl Chloride

Concentration: 400.06 ug/l









Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060610.D Page 3

Date : 06-JUN-2024 13:44

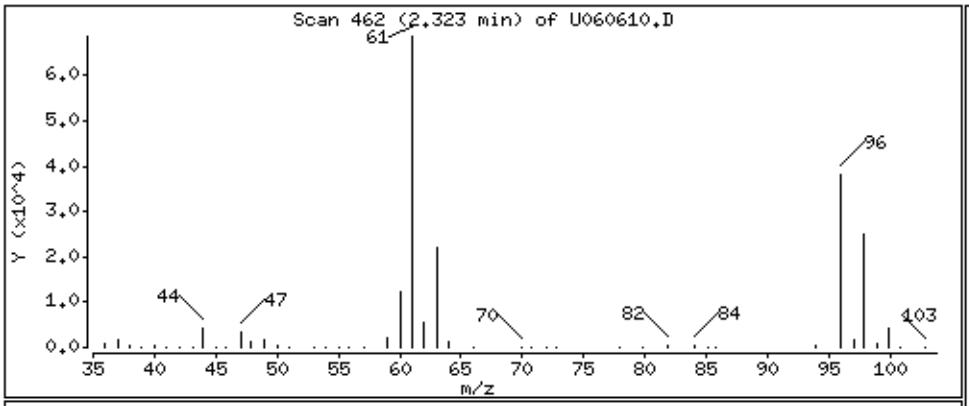
Client ID: Instrument: VOA9.i

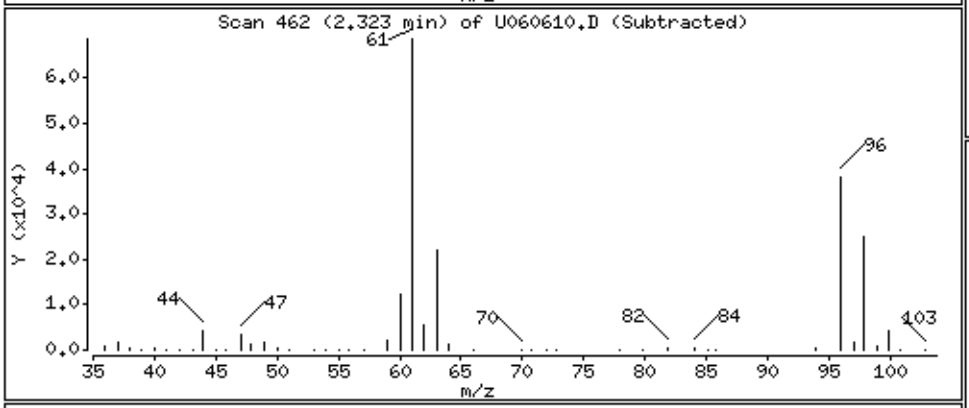
Sample Info: HS24051535-03

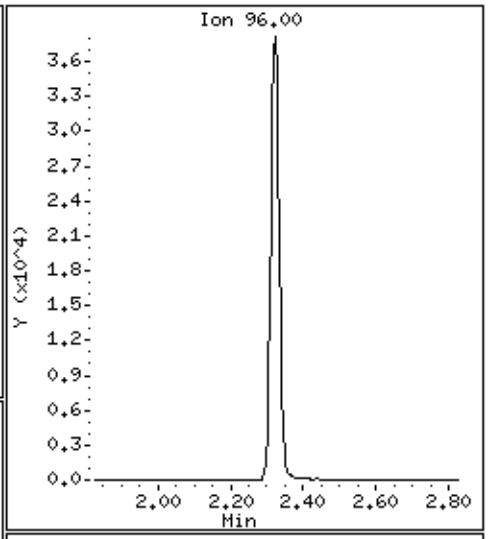
Purge Volume: 5.0 Operator: TS

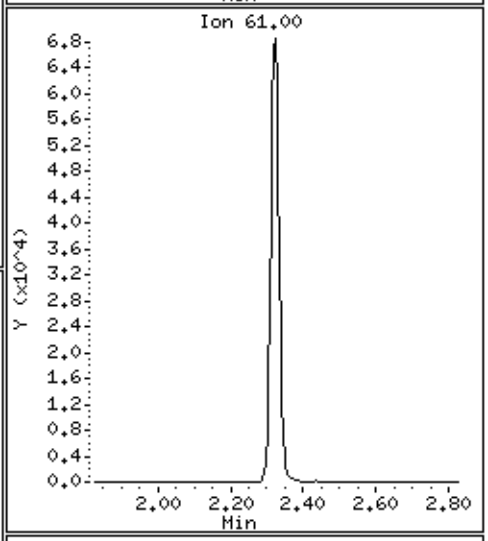
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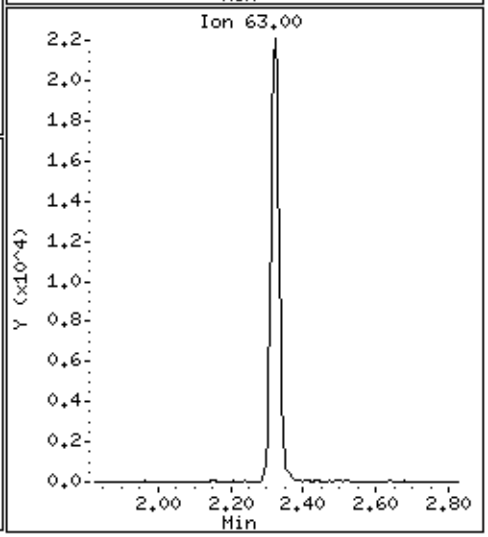
11 1,1-Dichloroethene Concentration: 1134.23 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060610.D

Date : 06-JUN-2024 13:44

Client ID:

Instrument: VOA9.i

Sample Info: HS24051535-03

Purge Volume: 5.0

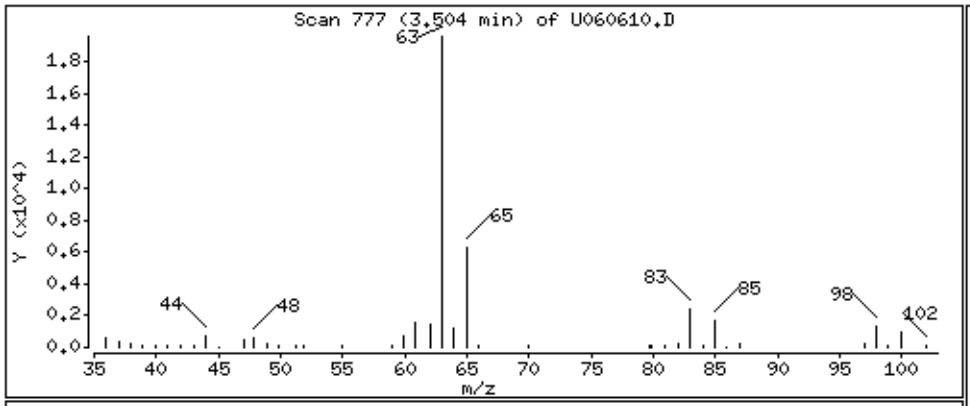
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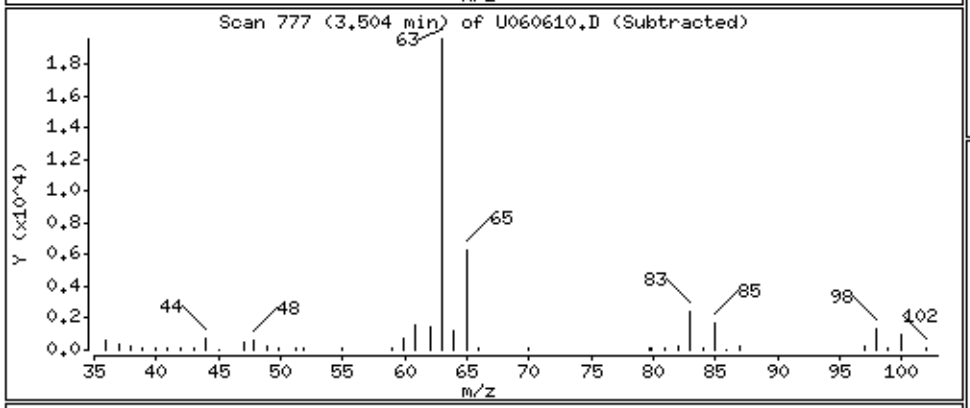
Column phase: DB624

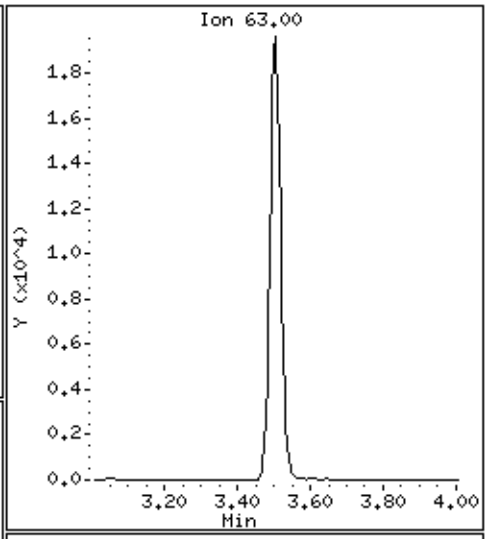
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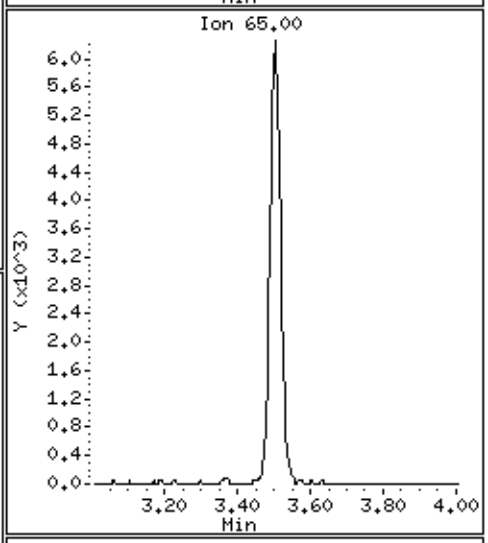
22 1,1-Dichloroethane

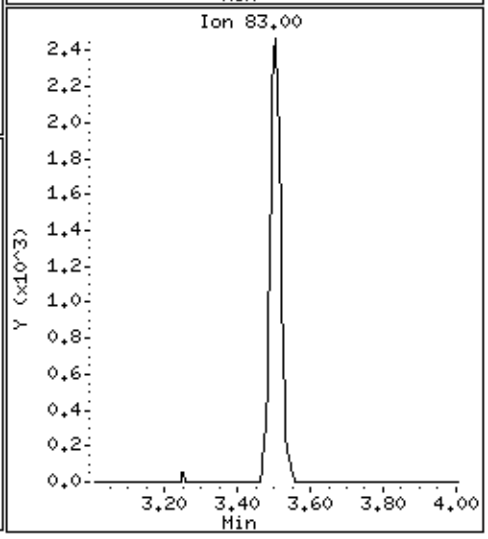
Concentration: 351.76 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060610.D

Date : 06-JUN-2024 13:44

Client ID:

Instrument: VOA9.i

Sample Info: HS24051535-03

Purge Volume: 5.0

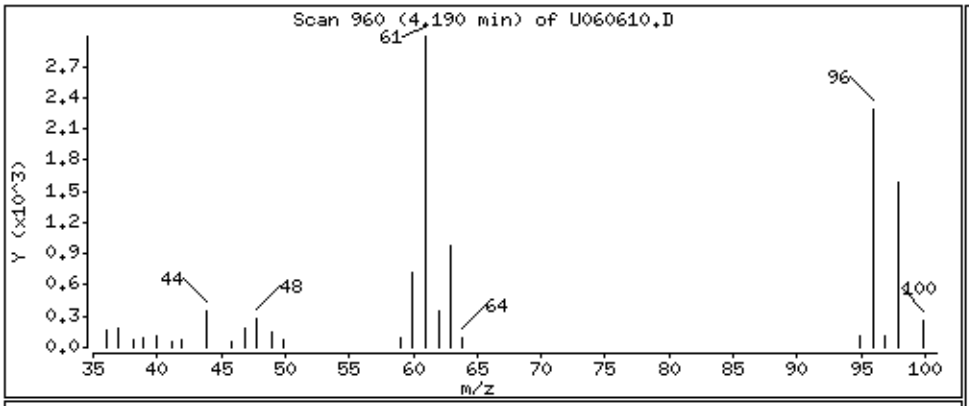
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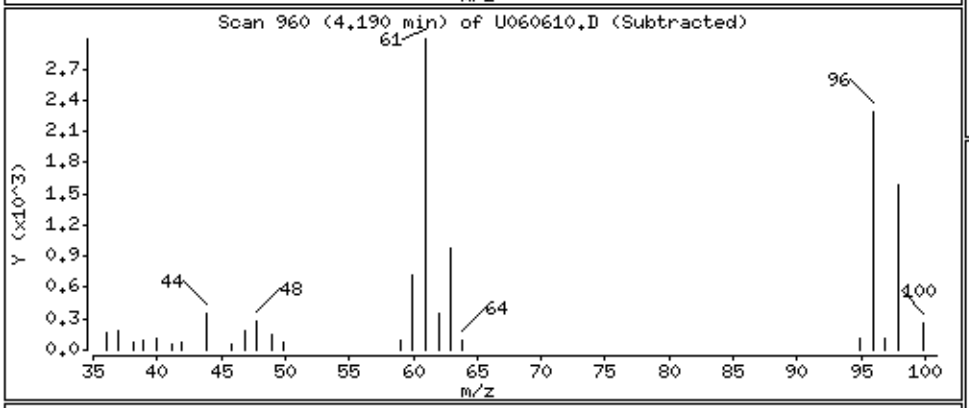
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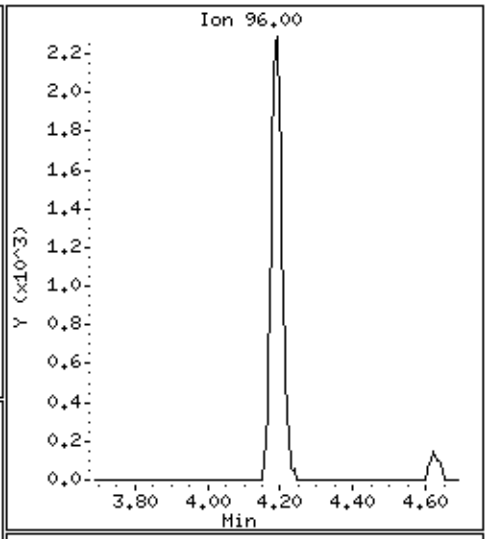
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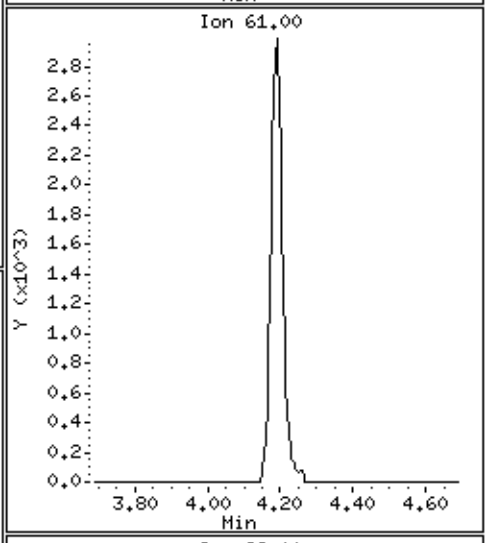
27 cis-1,2-Dichloroethene

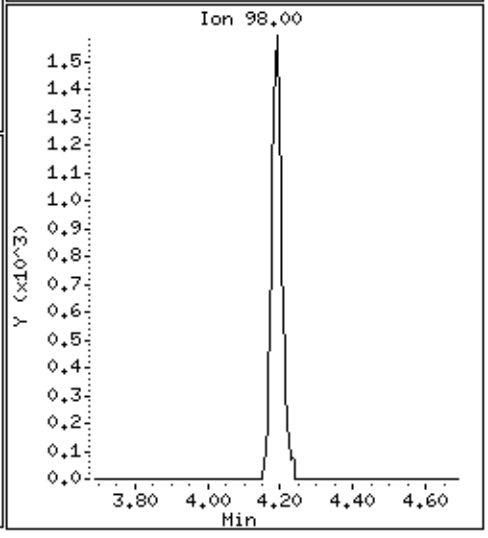
Concentration: 73.81 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060610.D Page 6

Date : 06-JUN-2024 13:44

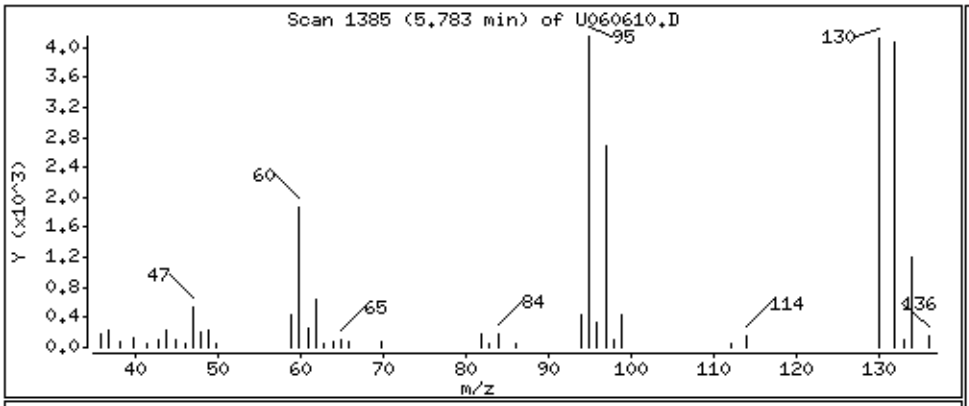
Client ID: Instrument: VOA9.i

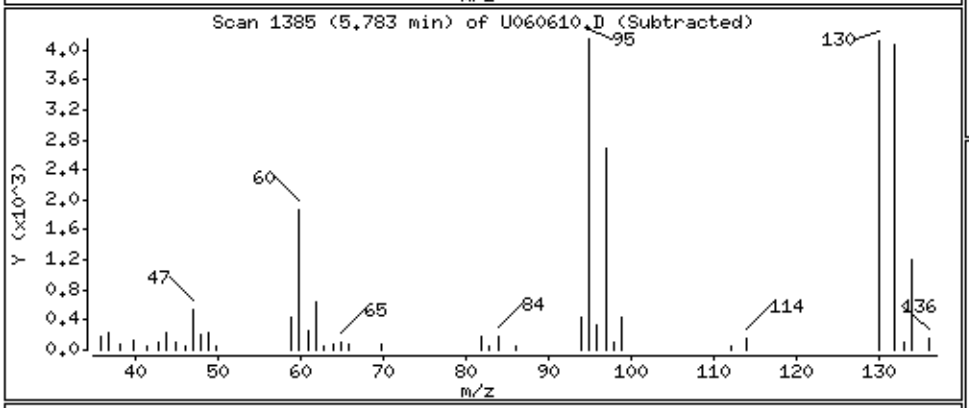
Sample Info: HS24051535-03

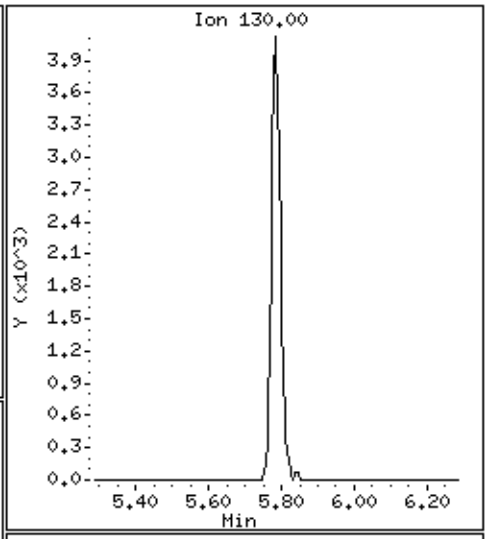
Purge Volume: 5.0 Operator: TS

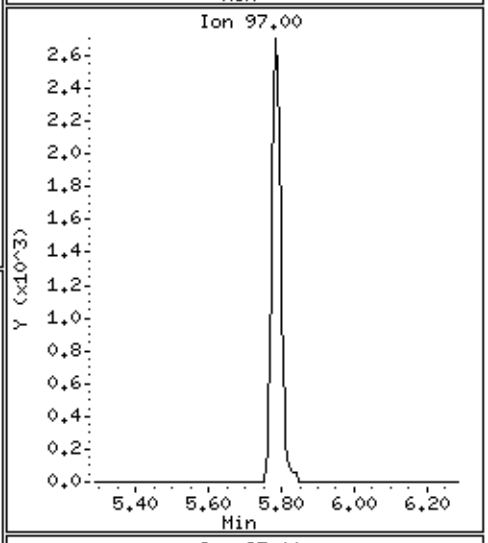
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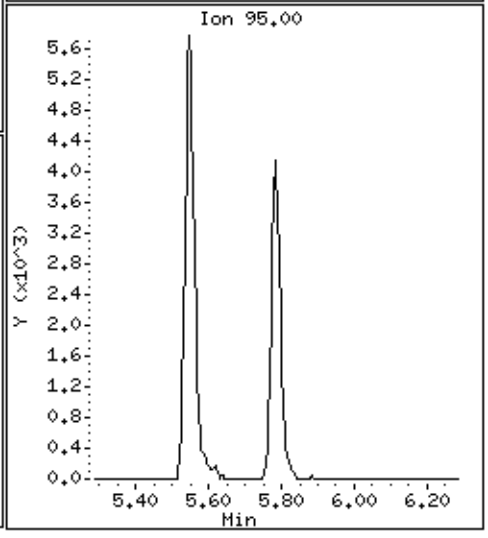
38 Trichloroethene Concentration: 104.31 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060610.D

Date : 06-JUN-2024 13:44

Client ID:

Instrument: VOA9.i

Sample Info: HS24051535-03

Purge Volume: 5.0

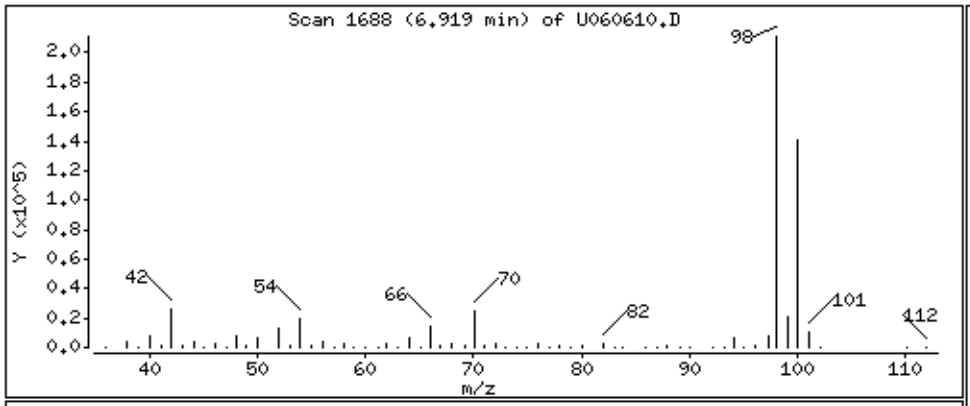
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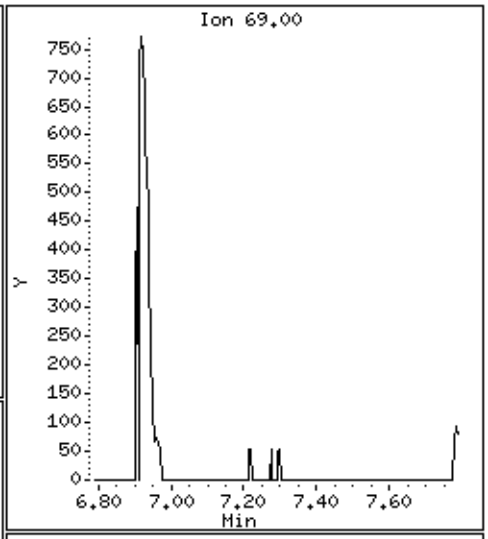
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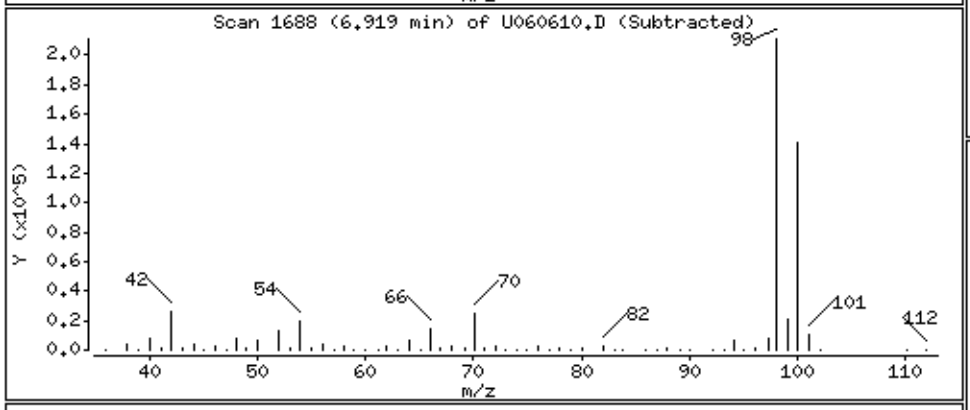
Column diameter: 0.18

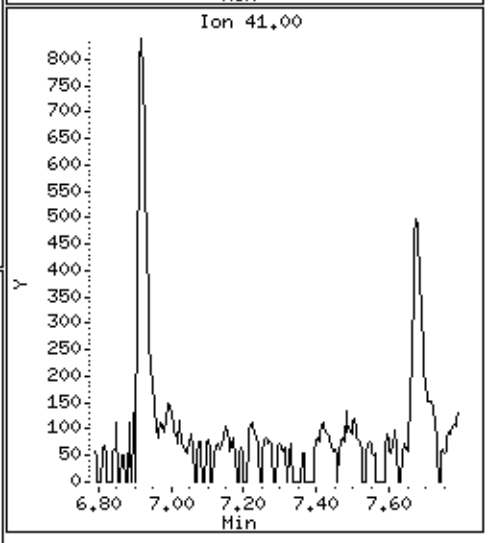
49 Ethyl Methacrylate

Concentration: 15.11 ug/l









Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060610.D Page 8

Date : 06-JUN-2024 13:44

Client ID:

Instrument: VOA9.i

Sample Info: HS24051535-03

Purge Volume: 5.0

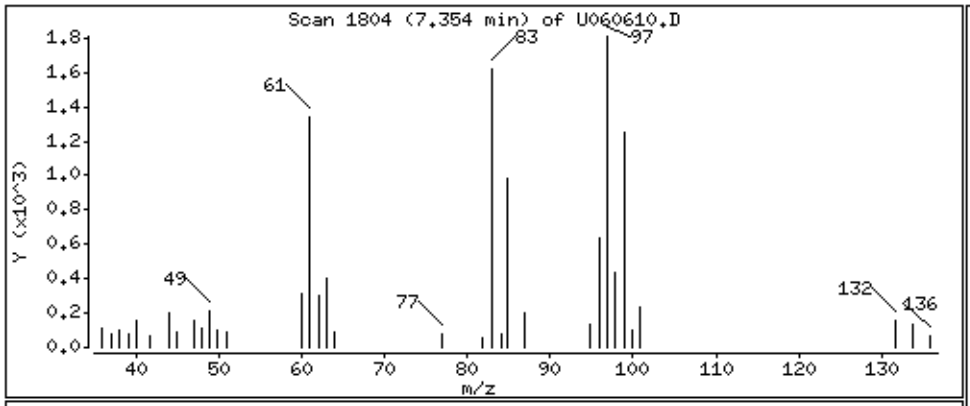
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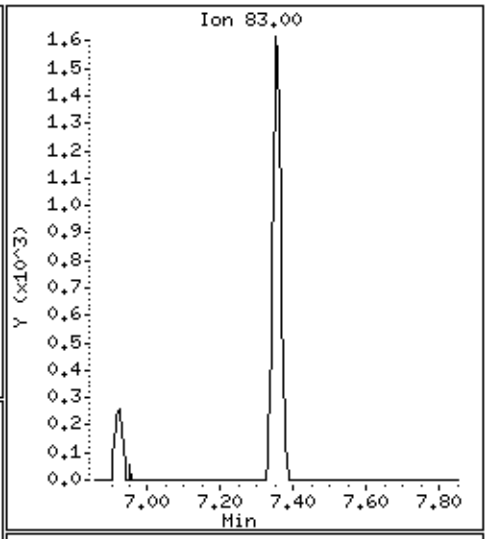
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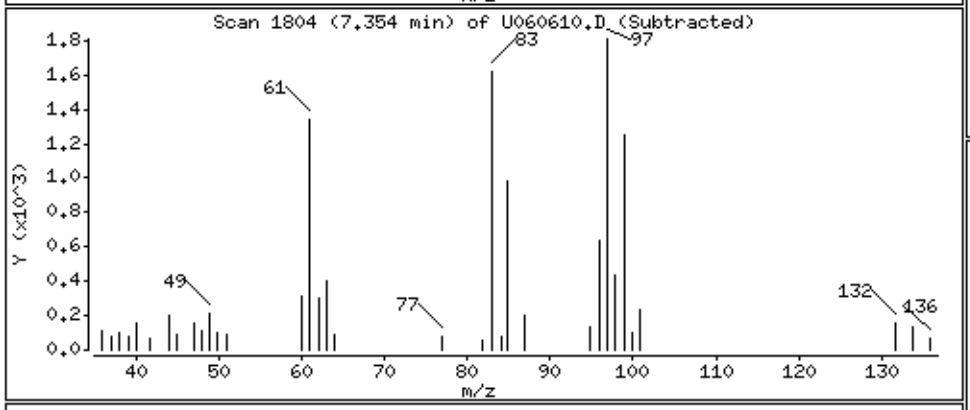
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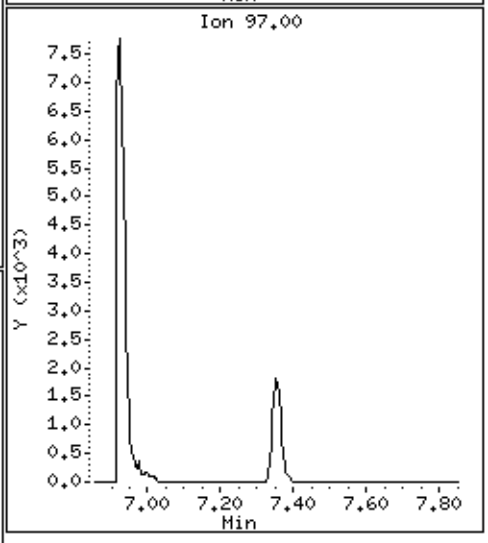
53 1,1,2-Trichloroethane

Concentration: 41.74 ug/l









Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060610.D

Date : 06-JUN-2024 13:44

Client ID:

Instrument: VOA9.i

Sample Info: HS24051535-03

Purge Volume: 5.0

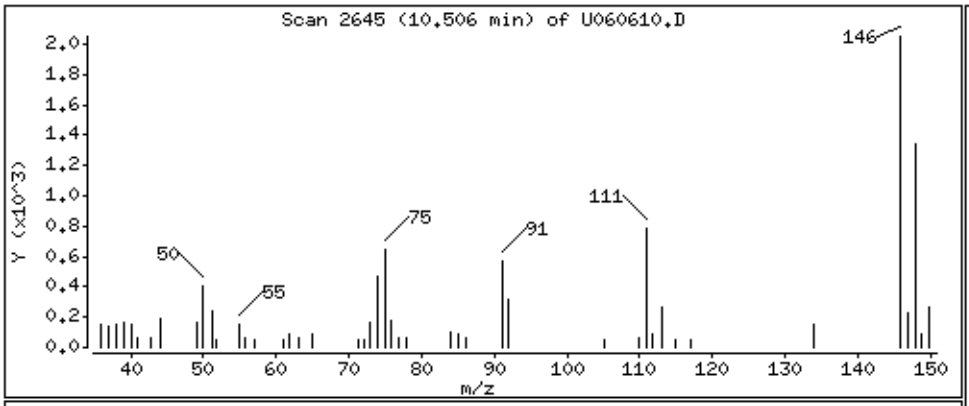
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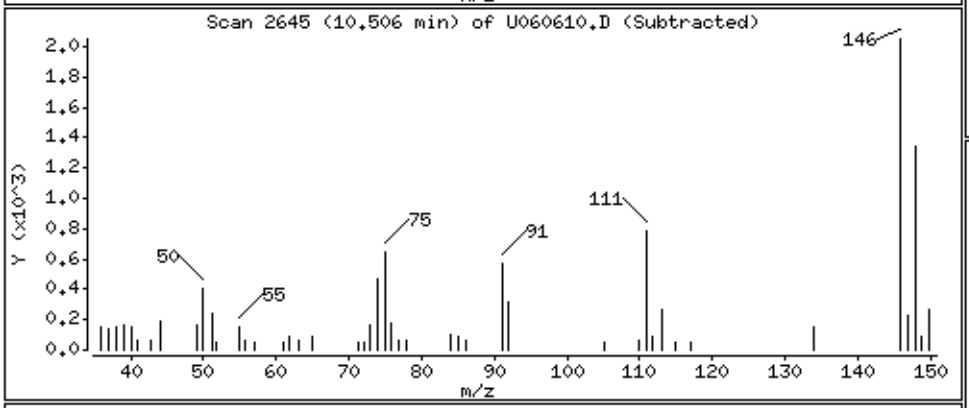
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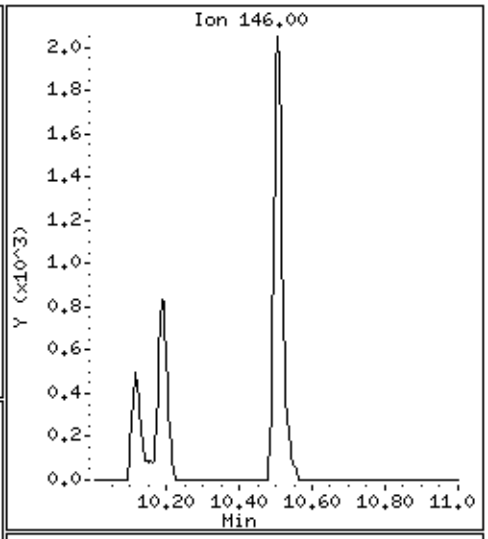
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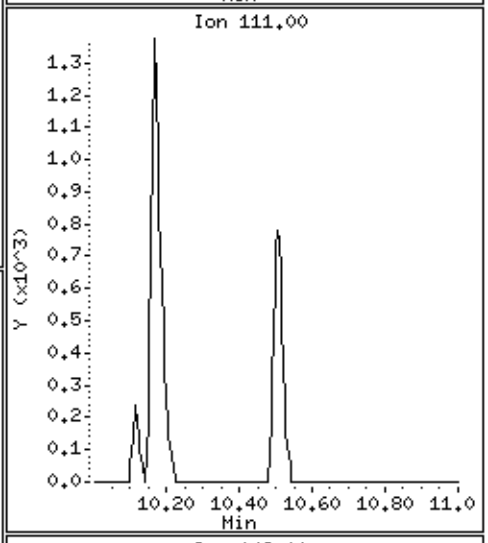
88 1,2-Dichlorobenzene

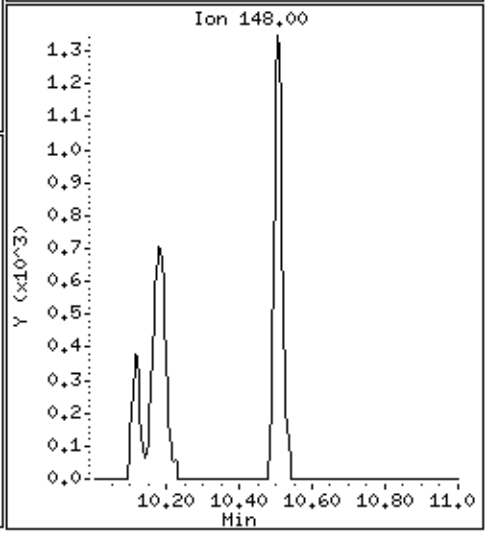
Concentration: 25.99 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060610.D

Date : 06-JUN-2024 13:44

Client ID:

Instrument: VOA9.i

Sample Info: HS24051535-03

Purge Volume: 5.0

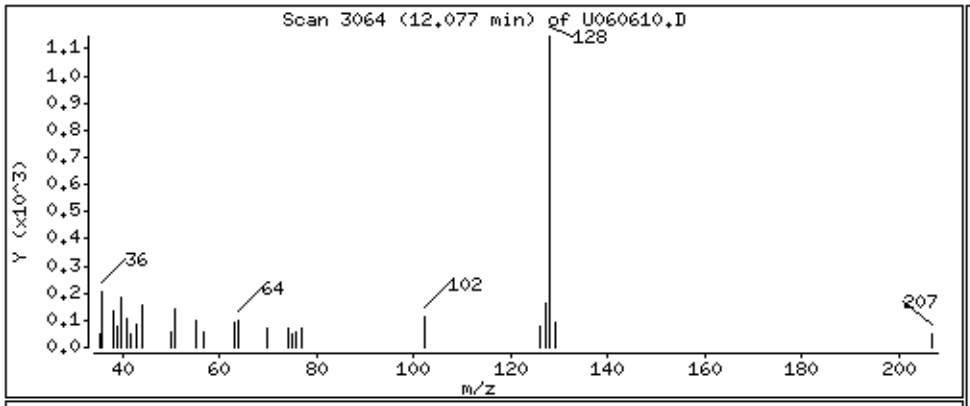
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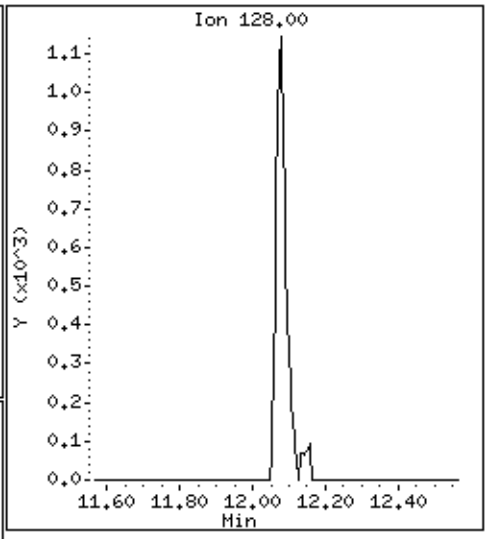
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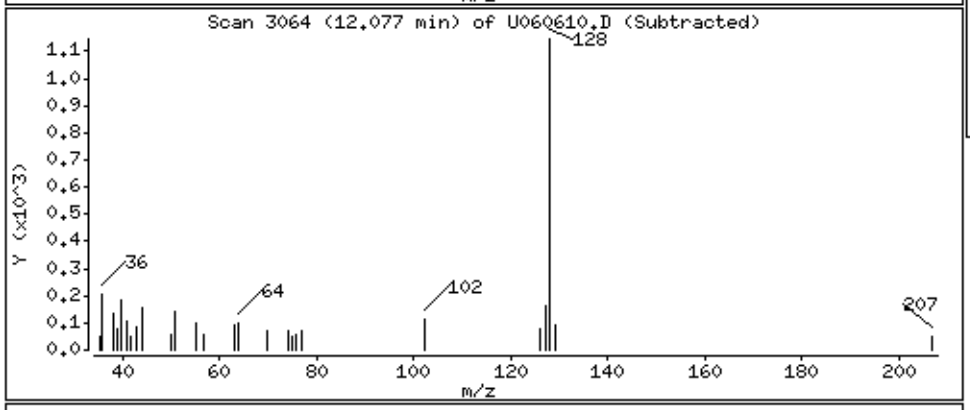
Column diameter: 0.18

92 Naphthalene

Concentration: 57.68 ug/l







Data File : \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060610.D
Inj Date : 06-JUN-2024 13:44
InstruID : VOA9.i
LabSampID : HS24051535-03

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060629.D Page 1
Report Date: 21-Jun-2024 17:22

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060629.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 06-JUN-2024 20:37
Operator : TS Inst ID: VOA9.i
Smp Info : VSTD050;VSTD050;2;;CCV
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240606.b\8260C.m
Meth Date : 21-Jun-2024 17:22 VOA9.i Quant Type: ISTD
Cal Date : 05-JUN-2024 20:24 Cal File: W060506.D
Als bottle: 27 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.815	4.815	(1.000)	232111	50.0000	
2	Dichlorodifluoromethane	85	1.164	1.164	(0.242)	38380	50.0000	53.20
3	Chloromethane	50	1.295	1.295	(0.269)	146158	50.0000	54.84
4	Propionitrile	54	4.335	4.335	(0.900)	95679	500.000	425.60
5	Vinyl Chloride	62	1.378	1.378	(0.286)	77513	50.0000	49.17
6	Bromomethane	94	1.606	1.606	(0.334)	32936	50.0000	46.10
7	Chloroethane	64	1.693	1.693	(0.352)	56014	50.0000	49.13
8	Trichlorofluoromethane	101	1.895	1.895	(0.394)	103466	50.0000	50.90
9	Acrolein	56	2.262	2.262	(0.470)	6822	100.000	90.32
10	Acetone	43	2.409	2.409	(0.500)	48615	100.000	77.80
11	1,1-Dichloroethene	96	2.330	2.330	(0.484)	63123	50.0000	47.41
12	Isobutyl Alcohol	43	5.284	5.284	(1.097)	206621	1000.00	836.99
13	Acetonitrile	39	2.671	2.671	(0.555)	85175	500.000	443.90
14	Allyl Chloride	41	2.671	2.671	(0.555)	190361	50.0000	43.74
15	Iodomethane	142	2.465	2.465	(0.512)	37505	100.000	117.92
16	Acrylonitrile	53	3.065	3.065	(0.636)	50980	100.000	87.31
17	Methylene Chloride	84	2.795	2.795	(0.580)	77227	50.0000	48.15
18	Methyl tert-butyl ether	73	3.080	3.080	(0.640)	171777	50.0000	43.44
19	Carbon Disulfide	76	2.517	2.517	(0.523)	354606	100.000	92.94
20	trans-1,2-Dichloroethene	96	3.057	3.057	(0.635)	67836	50.0000	47.60

21 Vinyl Acetate	43	4.339	4.339 (0.901)	79488	100.000	87.69
22 1,1-Dichloroethane	63	3.511	3.511 (0.729)	134611	50.0000	48.24

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
23	Chloroprene	53	3.608	3.608	(0.749)	112841	50.0000	47.68
24	2-Butanone	43	4.264	4.264	(0.886)	71788	100.000	83.76
25	Methacrylonitrile	41	4.493	4.493	(0.933)	44765	50.0000	43.78(a)
26	2,2-Dichloropropane	77	4.182	4.182	(0.868)	88136	50.0000	44.62
27	cis-1,2-Dichloroethene	96	4.193	4.193	(0.871)	81033	50.0000	47.31
28	Chloroform	83	4.572	4.572	(0.949)	136856	50.0000	44.73
29	Bromochloromethane	128	4.467	4.467	(0.928)	40396	50.0000	48.36
$ 30	Dibromofluoromethane	113	4.744	4.744	(0.985)	87367	50.0000	52.22
31	1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	106414	50.0000	48.44
32	1,1-Dichloropropene	75	4.920	4.920	(0.887)	100296	50.0000	46.03
33	1,2-Dichloroethane	62	5.175	5.175	(0.932)	111362	50.0000	47.75
34	Carbon Tetrachloride	117	4.909	4.909	(0.885)	86635	50.0000	48.19
$ 35	1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	107279	50.0000	52.59
* 36	1,4-Difluorobenzene	114	5.550	5.550	(1.000)	337309	50.0000	
37	Benzene	78	5.138	5.138	(0.926)	306020	50.0000	47.88
38	Trichloroethene	130	5.786	5.786	(1.043)	78329	50.0000	46.62
39	Bromodichloromethane	83	6.277	6.277	(1.131)	89997	50.0000	44.96
40	Methyl Methacrylate	41	5.820	5.820	(1.209)	28514	50.0000	40.67
41	2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	28707	100.000	72.11
42	1,2-Dichloropropane	63	6.007	6.007	(1.082)	83534	50.0000	46.71
43	2-Nitropropane	43	6.506	6.506	(1.351)	15714	50.0000	46.98
44	Dibromomethane	93	6.116	6.116	(1.102)	48005	50.0000	46.57
45	4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	149041	100.000	80.45
46	cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	109004	50.0000	42.12
* 47	Chlorobenzene-d5	117	8.182	8.182	(1.000)	306739	50.0000	
$ 48	Toluene-d8	98	6.918	6.918	(0.846)	341105	50.0000	55.37
49	Ethyl Methacrylate	69	7.289	7.289	(1.313)	89281	50.0000	40.91
50	Toluene	91	6.978	6.978	(0.853)	318649	50.0000	46.53
51	trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	88094	50.0000	41.03
52	2-Hexanone	43	7.214	7.214	(0.882)	106112	100.000	82.69
53	1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	60899	50.0000	46.78
54	1,3-Dichloropropane	76	7.496	7.496	(0.916)	130852	50.0000	46.69
55	Dibromochloromethane	129	7.690	7.690	(0.940)	69904	50.0000	43.39
56	Tetrachloroethene	164	7.454	7.454	(0.911)	64628	50.0000	48.55
57	1,2-Dibromoethane	107	7.780	7.780	(0.951)	69673	50.0000	45.37
58	1-Chlorohexane	55	8.193	8.193	(1.476)	61985	50.0000	43.57
59	Chlorobenzene	112	8.208	8.208	(1.003)	205829	50.0000	48.21
60	1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	70187	50.0000	47.35
61	Ethylbenzene	106	8.305	8.305	(1.015)	103094	50.0000	47.14
62	m,p-Xylenes	106	8.406	8.406	(1.027)	264821	100.000	97.45
63	o-Xylene	106	8.744	8.744	(1.069)	129961	50.0000	49.41
64	Styrene	104	8.759	8.759	(1.071)	209763	50.0000	49.31
66	Bromoform	173	8.916	8.916	(1.090)	39968	50.0000	39.32
67	Isopropylbenzene	105	9.059	9.059	(1.107)	324129	50.0000	51.88
68	1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	98749	50.0000	44.07
$ 69	4-Bromofluorobenzene	95	9.190	9.190	(1.123)	125771	50.0000	56.43
* 70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	168595	50.0000	
71	1,2,3-Trichloropropane	75	9.359	9.359	(0.920)	93901	50.0000	41.09
72	trans-1,4-Dichloro-2-butene	53	9.374	9.374	(1.146)	19030	50.0000	40.08
73	n-Propylbenzene	91	9.411	9.411	(0.926)	372900	50.0000	48.65
74	Bromobenzene	156	9.314	9.314	(0.916)	88909	50.0000	46.49
75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	259061	50.0000	51.33

76	2-Chlorotoluene	91	9.479	9.479 (0.932)	230710	50.0000	46.42
77	4-Chlorotoluene	91	9.572	9.572 (0.941)	268324	50.0000	46.88

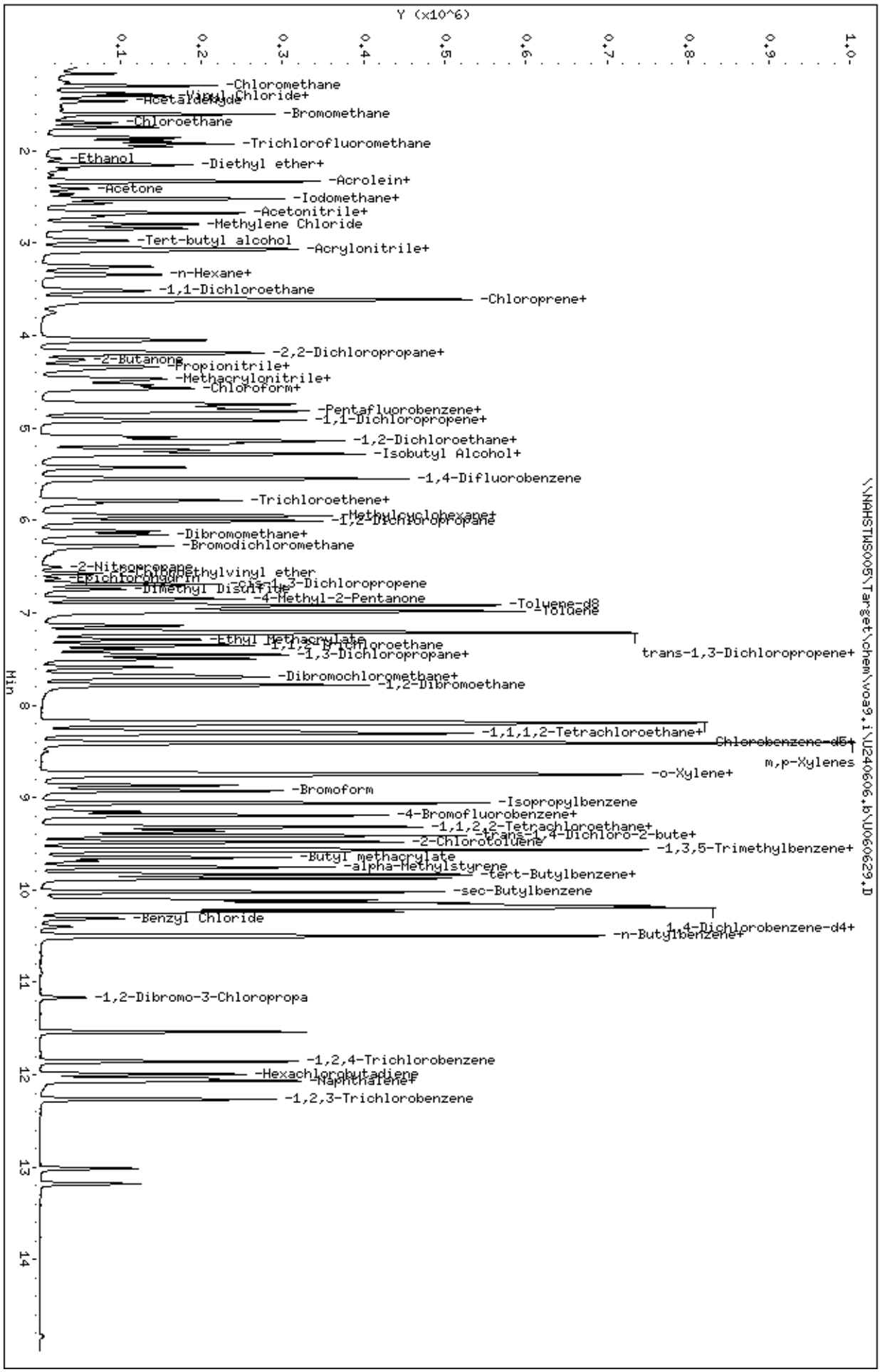
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	230179	50.0000	49.91	
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	252535	50.0000	48.37	
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	312651	50.0000	51.28	
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	264335	50.0000	51.04	
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	156009	50.0000	43.99	
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	164820	50.0000	46.90	
86	Benzyl Chloride	91	10.307	10.307	(1.260)	66664	50.0000	34.97	
87	n-Butylbenzene	91	10.491	10.491	(1.032)	232561	50.0000	44.99	
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	154951	50.0000	46.57	
89	1,2-Dibromo-3-Chloropropane	155	11.166	11.166	(1.098)	11127	50.0000	40.93	
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	95729	50.0000	43.12	
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	45358	50.0000	47.00	
92	Naphthalene	128	12.065	12.065	(1.187)	215323	50.0000	40.87	
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	86381	50.0000	44.46	
146	Methyl acetate	43	2.712	2.712	(0.563)	78673	50.0000	46.85	
138	Freon TF	101	2.334	2.334	(0.485)	58767	50.0000	51.55	
141	Cyclohexane	56	4.782	4.782	(0.993)	100245	50.0000	48.17	
142	Tetrahydrofuran	42	4.542	4.542	(0.943)	25272	100.000	84.28	
147	Methylcyclohexane	55	5.944	5.944	(1.071)	168518	50.0000	43.42	
135	1,4-Dioxane	88	6.165	6.165	(1.280)	14842	1000.00	837.46	
132	n-Butanol	56	5.820	5.820	(1.209)	36112	1000.00	737.47	
136	n-Hexane	57	3.338	3.338	(0.693)	72062	50.0000	49.29	
139	Diethyl ether	59	2.146	2.146	(0.446)	50484	50.0000	44.00	
148	Tert-butyl alcohol	59	2.971	2.971	(0.617)	114738	1000.00	807.81	
149	Isopropyl alcohol	45	2.566	2.566	(0.533)	91428	1000.00	801.07	
156	Diisopropyl ether	45	3.619	3.619	(0.752)	240523	50.0000	45.90	
162	Butyl acrylate	55	8.733	8.733	(1.067)	119077	50.0000	39.32	
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	345388	50.0000	43.21	
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	230574	50.0000	43.60	
167	Ethanol	45	2.086	2.086	(0.433)	17388	1000.00	843.96	
172	tert-Butyl formate	59	5.239	5.239	(1.088)	109467	100.000	79.41	
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	378467	1000.00	744.90	
140	1,3-Butadiene	54	1.404	1.404	(0.292)	39157	50.0000	50.70	
182	Epichlorohydrin	57	6.630	6.630	(1.195)	14361	200.000	157.64	
M 94	1,2-Dichloroethylene (total)	96				148869	100.000	(a)	
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	97394	50.0000	47.44	
131	Methyl Acrylate	55	4.365	4.365	(0.907)	78509	50.0000	41.75	
134	Cyclohexanone	55	9.152	9.152	(0.900)	47483	1000.00	654.09	
185	Isoprene	39	2.154	2.154	(0.447)	18127	50.0000	46.61	
188	Isopropyl acetate	43	5.284	5.284	(0.952)	207042	50.0000	43.08	
150	Allyl alcohol	57	3.338	3.338	(0.693)	72062	1000.00	985.80	
194	Acetaldehyde	44	1.460	1.460	(0.303)	101922	200.000	292.96	
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	38765	50.0000	43.23	
133	Ethyl Acrylate	55	5.944	5.944	(1.234)	168518	50.0000	42.97	
163	Butyl methacrylate	41	9.647	9.647	(0.949)	79637	50.0000	45.84	
159	Propylene oxide	43	2.199	2.199	(0.457)	10081	100.000	77.42	
203	2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	75020	50.0000	42.20	
204	Tetrahydrothiophene	60	7.668	7.668	(0.937)	61631	50.0000	42.38(A)	
205	sec-Butyl Ether	57	7.214	7.214	(0.882)	84780	50.0000	22.57(A)	

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

QC Flag Legend

A - Target compound detected but, quantitated amount
exceeded maximum amount.



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060629.D
Date : 06-JUN-2024 20:37
Client ID: VSTD050
Sample Info: VSTD050;VSTD050;2;;CCV
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060629.D
Inj Date : 06-JUN-2024 20:37
InstruID : VOA9.i
LabSampID : VSTD050

NO MANUAL INTEGRATIONS

HS24051535-GCSEMI-RSK-175

ALS WO# HS24051535

right solutions.
right partner.

Form 1

Organic Analysis Data Sheet

Dissolved Gasses by Dissolved Gases by RSK-175

Workorder

HS24051535

Client

Bhate Environmental Associates, Inc.

Project

LHAAP-58

06/24/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051535

Dissolved Gasses by Dissolved Gases by RSK-175

35AWW19_052324	Collected	Received	Matrix	Basis
HS24051535-01	05/23/24 07:40	05/24/24 09:50	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Ethane	ug/L	0.691	J	0.144	1.00	1.00	1	06/05/24 14:52	FID-4_468585	020.D
Ethene	ug/L	1.00	U	0.234	1.00	1.00	1	06/05/24 14:52	FID-4_468585	020.D
Methane	ug/L	1.15		0.107	0.500	0.500	1	06/05/24 14:52	FID-4_468585	020.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051535

Dissolved Gasses by Dissolved Gases by RSK-175

LHSMW07_052324	Collected	Received	Matrix	Basis
HS24051535-02	05/23/24 08:30	05/24/24 09:50	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Ethane	ug/L	9.80		0.144	1.00	1.00	1	06/05/24 15:01	FID-4_468585	021.D
Ethene	ug/L	15.5		0.234	1.00	1.00	1	06/05/24 15:01	FID-4_468585	021.D
Methane	ug/L	1,490		5.35	25.0	25.0	50	06/05/24 15:55	FID-4_468585	027.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051535

Dissolved Gasses by Dissolved Gases by RSK-175

35AWW20_052324	Collected	Received	Matrix	Basis
HS24051535-03	05/23/24 09:20	05/24/24 09:50	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Ethane	ug/L	1.00	U	0.144	1.00	1.00	1	06/05/24 15:10	FID-4_468585	022.D
Ethene	ug/L	6.89		0.234	1.00	1.00	1	06/05/24 15:10	FID-4_468585	022.D
Methane	ug/L	473		2.14	10.0	10.0	20	06/05/24 16:04	FID-4_468585	028.D

Form 1 - Organic Analysis Data Sheet

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	LHAAP-58	HS24051535	

Dissolved Gasses by Dissolved Gases by RSK-175

35AWW11_052324	Collected	Received	Matrix	Basis
HS24051535-04	05/23/24 10:10	05/24/24 09:50	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Ethane	ug/L	1.00	U	0.144	1.00	1.00	1	06/05/24 15:18	FID-4_468585	023.D
Ethene	ug/L	1.00	U	0.234	1.00	1.00	1	06/05/24 15:18	FID-4_468585	023.D
Methane	ug/L	1,630		5.35	25.0	25.0	50	06/05/24 16:16	FID-4_468585	029.D

Form 1 - Organic Analysis Data Sheet

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	LHAAP-58	HS24051535	

Dissolved Gasses by Dissolved Gases by RSK-175

35AWW23_052324	Collected	Received	Matrix	Basis
HS24051535-05	05/23/24 11:00	05/24/24 09:50	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Ethane	ug/L	1.00	U	0.144	1.00	1.00	1	06/05/24 15:27	FID-4_468585	024.D
Ethene	ug/L	1.00	U	0.234	1.00	1.00	1	06/05/24 15:27	FID-4_468585	024.D
Methane	ug/L	4,150		21.4	100	100	200	06/05/24 16:27	FID-4_468585	030.D

Form 1 - Organic Analysis Data Sheet

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	LHAAP-58	HS24051535	

Dissolved Gasses by Dissolved Gases by RSK-175

35AWW06_052324	Collected	Received	Matrix	Basis
HS24051535-06	05/23/24 11:50	05/24/24 09:50	Groundwater	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Ethane	ug/L	1.00	U	0.144	1.00	1.00	1	06/05/24 15:35	FID-4_468585	025.D
Ethene	ug/L	1.00	U	0.234	1.00	1.00	1	06/05/24 15:35	FID-4_468585	025.D
Methane	ug/L	1,830		5.35	25.0	25.0	50	06/05/24 16:36	FID-4_468585	031.D

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Form 3B

Laboratory Control Sample Recovery

Dissolved Gasses by Dissolved Gases by RSK-175

Workorder

HS24051535

Client

Bhate Environmental Associates, Inc.

Project

LHAAP-58

06/24/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051535

Dissolved Gasses by Dissolved Gases by RSK-175

SAMPLENUM LCS-240605

FID-4_468585			LCS-240605			LCSD-240605					
Spike Matrix Aqueous	Result Units ug/L		Run Date 06/05/24 Run Time 12:21			Run Date 06/05/24 Run Time 12:36					
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q	LCSD Result	%R	Q	RPD Limit	RPD	Q
Ethane	74-131	18.04	15.38	85		15.71	87		30	2.13	
Ethene	72-133	16.8	15.64	93		16.3	97		30	4.09	
Methane	73-125	9.647	8.602	89		9.064	94		30	5.23	

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Form 4

Method Blank Summary

Dissolved Gasses by Dissolved Gases by RSK-175

Workorder

HS24051535

Client

Bhate Environmental Associates, Inc.

Project

LHAAP-58

06/24/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 4 - Method Blank Summary

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051535

Dissolved Gasses by Dissolved Gases by RSK-175

METHOD BLANK	Matrix	Analysis Date	Analysis Batch	Inst ID
MBLK-240605	Aqueous	06/05/24 12:11	R468585	FID4

Client Sample ID	Lab Sample ID	Type	Analysis Date	Analysis Batch	Inst ID	FileID
LCS-240605	LCS-240605	LCS	06/05/24 12:21	R468585	FID4	006.D
LCSD-240605	LCSD-240605	LCSD	06/05/24 12:36	R468585	FID4	007.D
35AWW19_052324	HS24051535-01	SAMP	06/05/24 14:52	R468585	FID4	020.D
LHSMW07_052324	HS24051535-02	SAMP	06/05/24 15:01	R468585	FID4	021.D
35AWW20_052324	HS24051535-03	SAMP	06/05/24 15:10	R468585	FID4	022.D
35AWW11_052324	HS24051535-04	SAMP	06/05/24 15:18	R468585	FID4	023.D
35AWW23_052324	HS24051535-05	SAMP	06/05/24 15:27	R468585	FID4	024.D
35AWW06_052324	HS24051535-06	SAMP	06/05/24 15:35	R468585	FID4	025.D
LHSMW07_052324	HS24051535-02	SAMP	06/05/24 15:55	R468585	FID4	027.D
35AWW20_052324	HS24051535-03	SAMP	06/05/24 16:04	R468585	FID4	028.D
35AWW11_052324	HS24051535-04	SAMP	06/05/24 16:16	R468585	FID4	029.D
35AWW23_052324	HS24051535-05	SAMP	06/05/24 16:27	R468585	FID4	030.D
35AWW06_052324	HS24051535-06	SAMP	06/05/24 16:36	R468585	FID4	031.D

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 24-JAN-2017 09:06
End Cal Date : 01-MAR-2024 15:48
Quant Method : ESTD
Origin : Disabled
Target Version : 4.14
Integrator : Falcon
Method file : \\NAHSTWS005\Target\chem\FID-4.i\240301.b\RSKNI2.m
Last Edit : 02-Mar-2024 07:11 Samy.Mata
Curve Type : Average

Calibration File Names:
Level 1: \\NAHSTWS005\Target\chem\FID-4.i\240301ICAL.b\009.D
Level 2: \\NAHSTWS005\Target\chem\FID-4.i\240301ICAL.b\003.D
Level 3: \\NAHSTWS005\Target\chem\FID-4.i\240301ICAL.b\004.D
Level 4: \\NAHSTWS005\Target\chem\FID-4.i\240301ICAL.b\005.D
Level 5: \\NAHSTWS005\Target\chem\FID-4.i\240301ICAL.b\006.D
Level 6: \\NAHSTWS005\Target\chem\FID-4.i\240301ICAL.b\007.D
Level 7: \\NAHSTWS005\Target\chem\FID-4.i\240301ICAL.b\008.D

Compound	10.000 Level 1	25.000 Level 2	50.000 Level 3	100.000 Level 4	250.000 Level 5	500.000 Level 6	RRF	% RSD
	1000.000 Level 7							
1 Methane	1275	1233	1158	1053	1089	1052		
	1015						1125	8.811
2 Ethene	596	725	776	798	843	513		
	811						723	16.997
3 Ethane	712	946	1023	1035	1159	1061		
	1092						1004	14.380
4 Propane	642	946	932	951	1024	999		
	987						926	13.969
5 N-Butane	563	912	953	953	1015	990		
	988						911	17.229
6 Pentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
7 Hexane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

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Form 6I

Initial Calibration Verification (ICV)

Dissolved Gasses by Dissolved Gases by RSK-175

Workorder

HS24051535

Client

Bhate Environmental Associates, Inc.

Project

LHAAP-58

06/24/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder HS24051535

RunID 010.D

Dissolved Gasses by Dissolved Gases by RSK-175

Sample Matrix LIQUID
Lab Smp Id RSK-ICV
Data Type GC DATA
File ID 010.D

Fraction GASES
Client Smp ID RSK-ICV
SampleType METHSPIKE
Inj Date 01-MAR-2024 1700

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
Methane	9.62	8.09	84.1	80-120	
Ethene	16.8	16.5	98.0	80-120	
Ethane	18.0	17.0	94.4	80-120	
Propane	26.5	24.6	92.9	80-120	
N-Butane	34.9	32.9	94.4	80-120	
Pentane	43.3	0.000		80-120	*
Hexane	51.7	0.000		80-120	*

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Form 7

Continuing Calibration Verification (CCV)

Dissolved Gasses by Dissolved Gases by RSK-175

Workorder

HS24051535

Client

Bhate Environmental Associates, Inc.

Project

LHAAP-58

06/24/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder HS24051535

RunID 004.D

Dissolved Gasses by Dissolved Gases by RSK-175

Instrument ID FID-4.i
Lab File ID 004.D
Analysis Type WATER
Lab Sample ID RSK-CCV

Injection Date 05-JUN-2024 1153
ICAL Date(s) 24-JAN-2017, 01-MAR-2024
ICAL Times 09:06, 15:48
Quant Type ESTD

Compound	RRF / Conc	RF250	CCV RRF250	Min RRF	%D / %DRIFT	Max %D / %DRIFT	CURVE TYPE	Q
Methane	1125	1058	1058	0.010	5.99	20.0	Averaged	
Ethene	723	668	668	0.010	7.68	20.0	Averaged	
Ethane	1004	967	967	0.010	3.70	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder HS24051535

RunID 014.D

Dissolved Gasses by Dissolved Gases by RSK-175

Instrument ID FID-4.i
Lab File ID 014.D
Analysis Type WATER
Lab Sample ID RSK-CCV

Injection Date 05-JUN-2024 1352
ICAL Date(s) 24-JAN-2017, 01-MAR-2024
ICAL Times 09:06, 15:48
Quant Type ESTD

Compound	RRF / Conc	RF250	CCV RRF250	Min RRF	%D / %DRIFT	Max %D / %DRIFT	CURVE TYPE	Q
Methane	1125	1068	1068	0.010	5.11	20.0	Averaged	
Ethene	723	661	661	0.010	8.65	20.0	Averaged	
Ethane	1004	892	892	0.010	11.2	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder HS24051535

RunID 026.D

Dissolved Gasses by Dissolved Gases by RSK-175

Instrument ID FID-4.i
Lab File ID 026.D
Analysis Type WATER
Lab Sample ID RSK-CCV

Injection Date 05-JUN-2024 1544
ICAL Date(s) 24-JAN-2017, 01-MAR-2024
ICAL Times 09:06, 15:48
Quant Type ESTD

Compound	RRF / Conc	RF250	CCV RRF250	Min RRF	%D / %DRIFT	Max %D / %DRIFT	CURVE TYPE	Q
Methane	1125	998	998	0.010	11.3	20.0	Averaged	
Ethene	723	633	633	0.010	12.5	20.0	Averaged	
Ethane	1004	852	852	0.010	15.1	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder HS24051535

RunID 037.D

Dissolved Gasses by Dissolved Gases by RSK-175

Instrument ID FID-4.i
Lab File ID 037.D
Analysis Type WATER
Lab Sample ID RSK-CCV

Injection Date 05-JUN-2024 1741
ICAL Date(s) 24-JAN-2017, 01-MAR-2024
ICAL Times 09:06, 15:48
Quant Type ESTD

Compound	RRF / Conc	RF250	CCV RRF250	Min RRF	%D / %DRIFT	Max %D / %DRIFT	CURVE TYPE	Q
Methane	1125	1032	1032	0.010	8.25	20.0	Averaged	
Ethene	723	653	653	0.010	9.68	20.0	Averaged	
Ethane	1004	849	849	0.010	15.4	20.0	Averaged	

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Analysis Run Log

Dissolved Gasses by Dissolved Gases by RSK-175

Workorder

HS24051535

Client

Bhate Environmental Associates, Inc.

Project

LHAAP-58

06/24/2024

ALS Environmental–Houston Laboratory
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Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder **HS24051535**

RUNID FID-4-461015

Dissolved Gasses by Dissolved Gases by RSK-175

Run ID FID-4_461015 **Start Date** 03/01/24 **EndDate** 03/01/24

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
09:20	RSK-ICAL L2	ICAL2	RSK-ICAL L2	003.D	03/01/24	1
09:42	RSK-ICAL L3	ICAL3	RSK-ICAL L3	004.D	03/01/24	1
10:01	RSK-ICAL L4	ICAL4	RSK-ICAL L4	005.D	03/01/24	1
10:22	RSK-ICAL L5	ICAL5	RSK-ICAL L5	006.D	03/01/24	1
10:37	RSK-ICAL L6	ICAL6	RSK-ICAL L6	007.D	03/01/24	1
11:04	RSK-ICAL L7	ICAL7	RSK-ICAL L7	008.D	03/01/24	1
15:48	RSK-ICAL L1	ICAL1	RSK-ICAL L1	009.D	03/01/24	1
17:00	RSK-ICV	ICV	RSK-ICV	010.D	03/01/24	1

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder **HS24051535**

Dissolved Gasses by Dissolved Gases by RSK-175

RUNID FID-4-468585

Run ID FID-4_468585 **Start Date** 06/05/24 **EndDate** 06/05/24

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
11:53	RSK-CCV	CCV	RSK-CCV	004.D	06/05/24	1
12:11	MBLK-240605	MBLK	MBLK-240605	005.D	06/05/24	1
12:21	LCS-240605	LCS	LCS-240605	006.D	06/05/24	1
12:36	LCSD-240605	LCSD	LCSD-240605	007.D	06/05/24	1
13:52	RSK-CCV	CCV	RSK-CCV	014.D	06/05/24	1
14:52	HS24051535-01	SAMP	35AWW19_052324	020.D	06/05/24	1
15:01	HS24051535-02	SAMP	LHSMW07_052324	021.D	06/05/24	1
15:10	HS24051535-03	SAMP	35AWW20_052324	022.D	06/05/24	1
15:18	HS24051535-04	SAMP	35AWW11_052324	023.D	06/05/24	1
15:27	HS24051535-05	SAMP	35AWW23_052324	024.D	06/05/24	1
15:35	HS24051535-06	SAMP	35AWW06_052324	025.D	06/05/24	1
15:44	RSK-CCV	CCV	RSK-CCV	026.D	06/05/24	1
15:55	HS24051535-02	SAMP	LHSMW07_052324	027.D	06/05/24	50
16:04	HS24051535-03	SAMP	35AWW20_052324	028.D	06/05/24	20
16:16	HS24051535-04	SAMP	35AWW11_052324	029.D	06/05/24	50
16:27	HS24051535-05	SAMP	35AWW23_052324	030.D	06/05/24	200
16:36	HS24051535-06	SAMP	35AWW06_052324	031.D	06/05/24	50
17:41	RSK-CCV	CCV	RSK-CCV	037.D	06/05/24	1

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RawData

<textMethods>

Workorder

HS24051535

Client

Bhate Environmental Associates, Inc.

Project

LHAAP-58

06/24/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
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Data File: \\NAHSTWS005\Target\chem\FID-4.i\240301.b\003.D Page 1
Report Date: 11-Mar-2024 18:09

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\240301.b\003.D
Lab Smp Id: RSK-ICAL L2 Client Smp ID: RSK-ICAL L2
Inj Date : 01-MAR-2024 09:20
Operator : PL Inst ID: FID-4.i
Smp Info : RSK-ICAL L2;RSK-ICAL L2;2;4
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\240301.b\RSKNI2.m
Meth Date : 11-Mar-2024 18:06 FID-4.i Quant Type: ESTD
Cal Date : 01-MAR-2024 15:48 Cal File: 009.D
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: stdNI2.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	0.446	0.440	0.006	1190	0.96500	1.057(M)
2 Ethene	0.646	0.643	0.003	1221	1.68500	1.688
3 Ethane	0.710	0.710	0.000	1707	1.80400	1.700(M)
4 Propane	2.030	2.016	0.014	2502	2.64600	2.702
5 N-Butane	4.910	4.886	0.024	3190	3.49600	3.503

QC Flag Legend

M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\FID-4.i\240301.b\003.D

Date : 01-MAR-2024 09:20

Client ID: RSK-ICAL L2

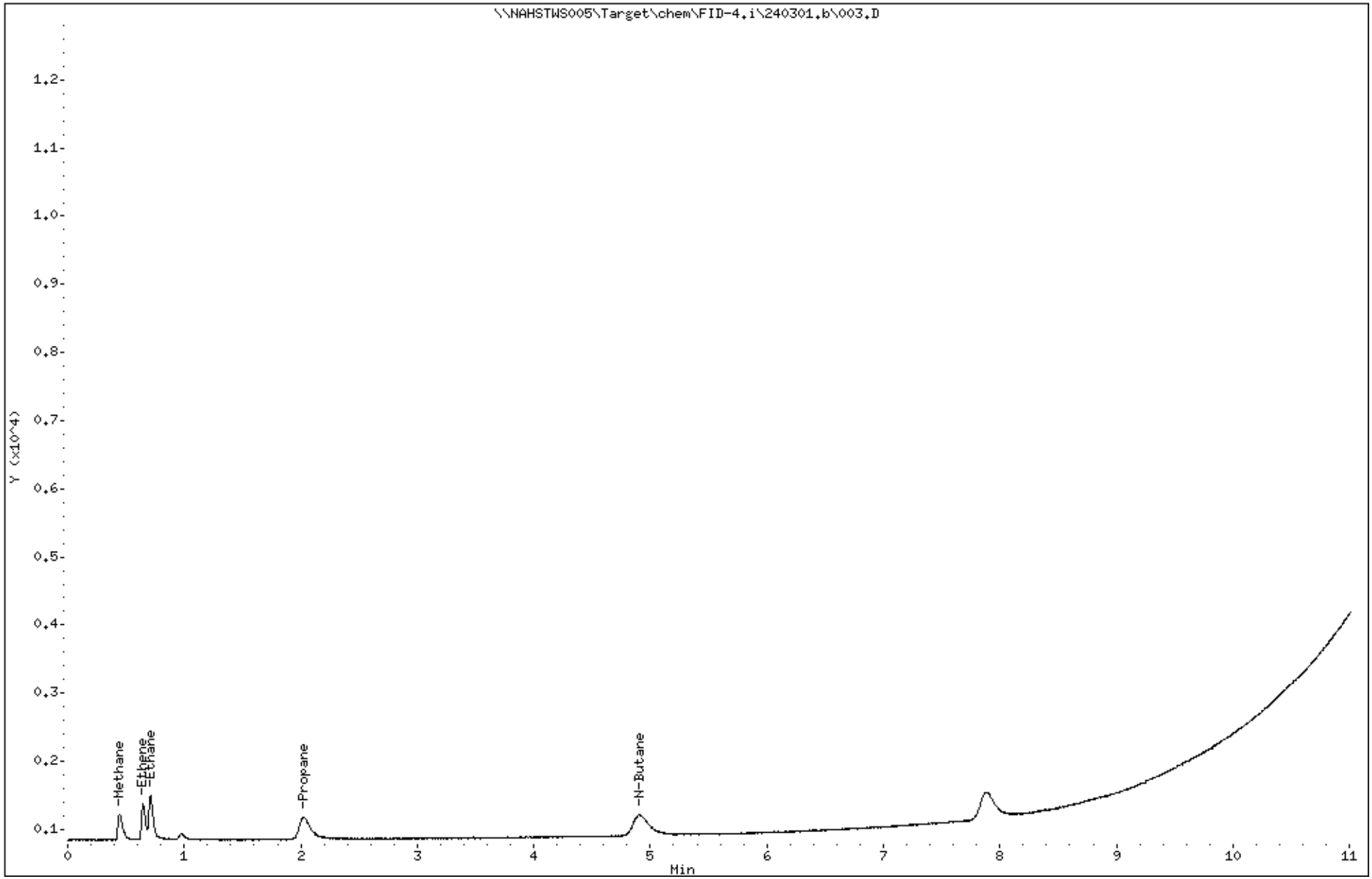
Instrument: FID-4.i

Sample Info: RSK-ICAL L2;RSK-ICAL L2;2;4

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53



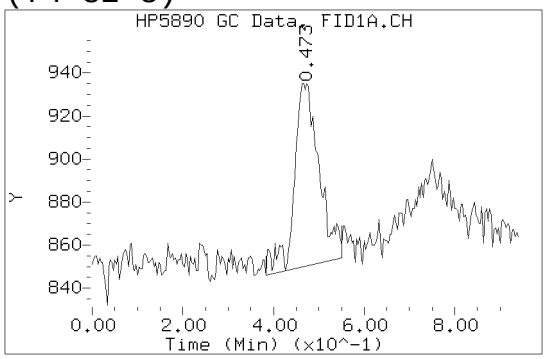
Data File : \\NAHSTWS005\Target\chem\FID-4.i\240301.b\003.D
Inj Date : 01-MAR-2024 09:20
InstruID : FID-4.i
LabSampID : RSK-ICAL L2

Methane (74-82-8)

Reason Code: MIP

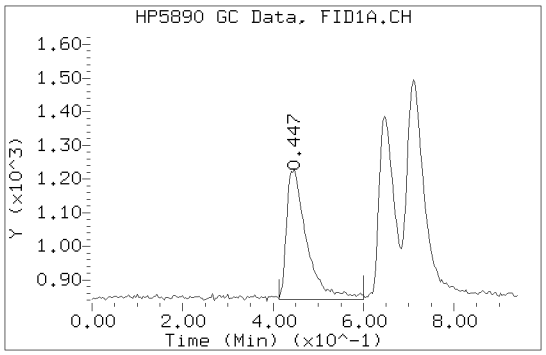
BEFORE

MASS
100
AREA
0
HEIGHT
0
01-Mar-2024
09:14
ALSHS
Server



AFTER

MASS
100
AREA
1190
HEIGHT
385
11-Mar-2024
18:09
ALSHS
Ser

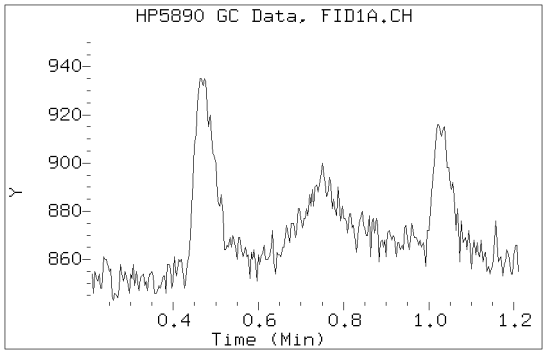


Ethane (74-84-0)

Reason Code: MIP

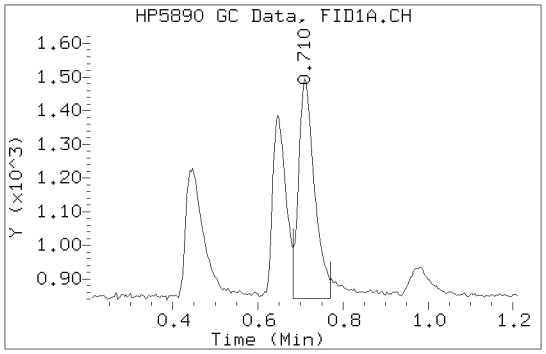
BEFORE

MASS
100
AREA
0
HEIGHT
0
01-Mar-2024
09:14
ALSHS
Server



AFTER

MASS
44
AREA
1707
HEIGHT
652
11-Mar-2024
18:09
ALSHS
Ser



Data File: \\NAHSTWS005\Target\chem\FID-4.i\240301.b\004.D Page 1
Report Date: 11-Mar-2024 18:12

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\240301.b\004.D
Lab Smp Id: RSK-ICAL L3 Client Smp ID: RSK-ICAL L3
Inj Date : 01-MAR-2024 09:42
Operator : PL Inst ID: FID-4.i
Smp Info : RSK-ICAL L3;RSK-ICAL L3;2;4
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\240301.b\RSKNI2.m
Meth Date : 11-Mar-2024 18:06 FID-4.i Quant Type: ESTD
Cal Date : 01-MAR-2024 09:20 Cal File: 003.D
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: stdNI2.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	0.443	0.440	0.003	2234	1.92900	1.985(M)
2 Ethene	0.650	0.643	0.007	2615	3.37000	3.615(M)
3 Ethane	0.713	0.710	0.003	3691	3.60900	3.676(M)
4 Propane	2.023	2.016	0.007	4935	5.29300	5.329
5 N-Butane	4.903	4.886	0.017	6664	6.99100	7.317

QC Flag Legend

M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\FID-4.i\240301.b\004.D

Date : 01-MAR-2024 09:42

Client ID: RSK-ICAL L3

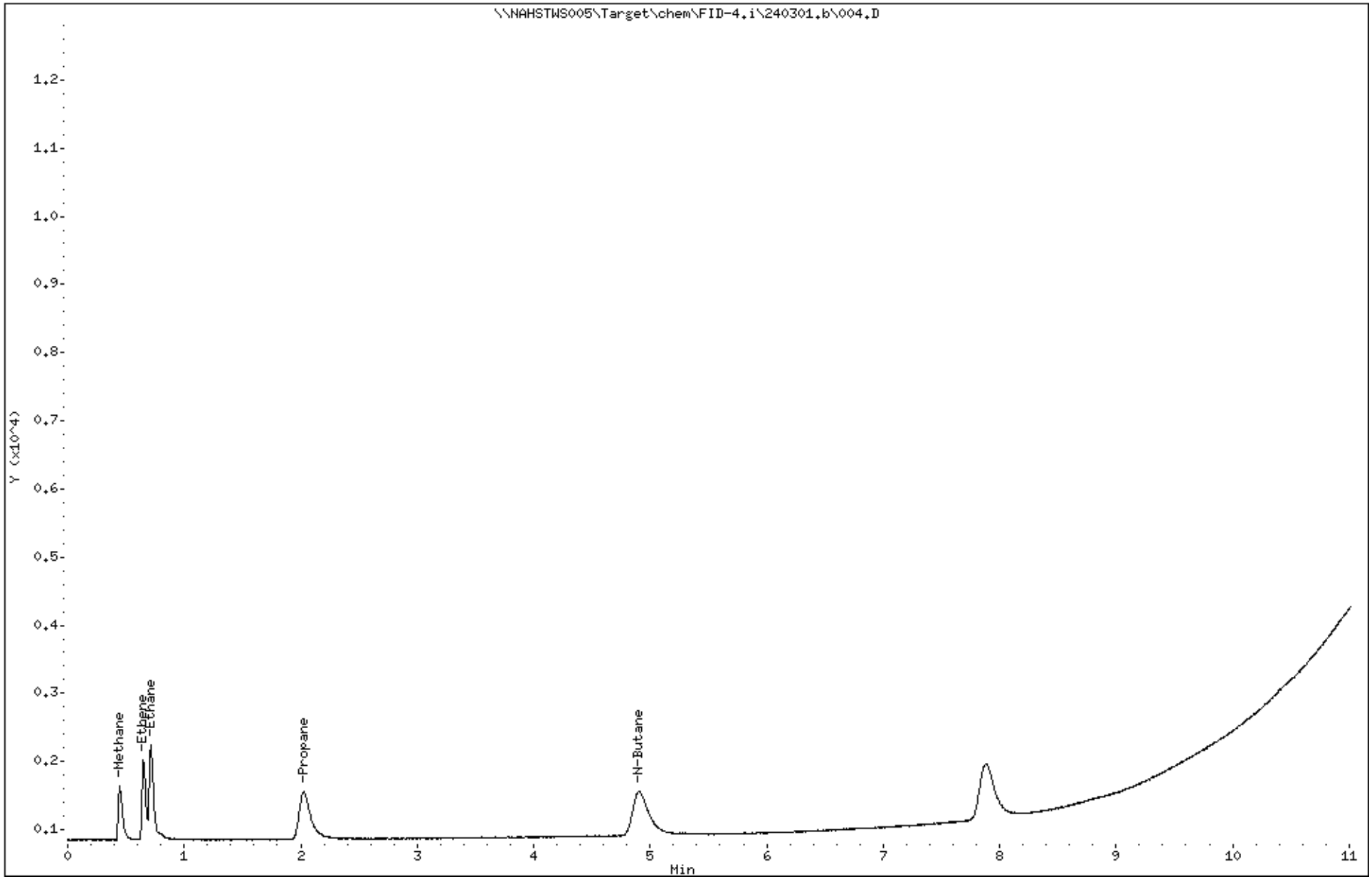
Instrument: FID-4.i

Sample Info: RSK-ICAL L3;RSK-ICAL L3;2;4

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53



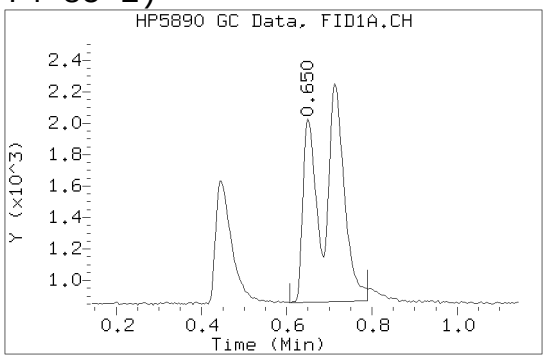
Data File : \\NAHSTWS005\Target\chem\FID-4.i\240301.b\004.D
Inj Date : 01-MAR-2024 09:42
InstruID : FID-4.i
LabSampID : RSK-ICAL L3

Ethene (74-85-1)

Reason Code: MIA

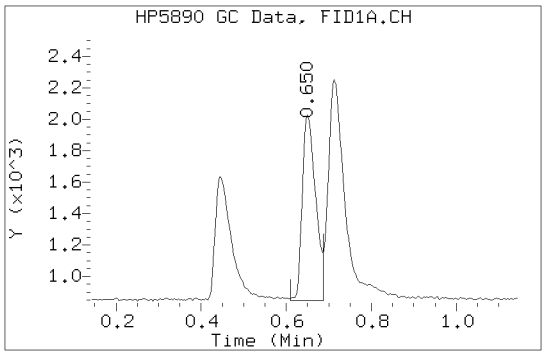
BEFORE

MASS
100
AREA
6051
HEIGHT
1172
11-Mar-2024
18:03
linh
pham



AFTER

MASS
100
AREA
2615
HEIGHT
1185
11-Mar-2024
18:12
linh
pham

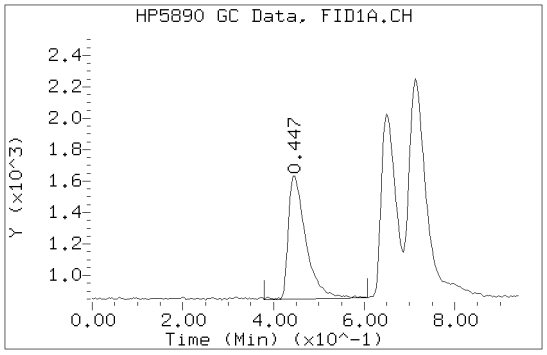


Methane (74-82-8)

Reason Code: MBA

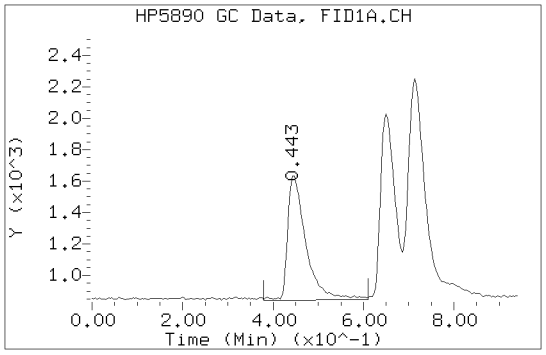
BEFORE

MASS
100
AREA
2128
HEIGHT
786
11-Mar-2024
18:03
linh
pham



AFTER

MASS
100
AREA
2234
HEIGHT
791
11-Mar-2024
18:12
linh
pham

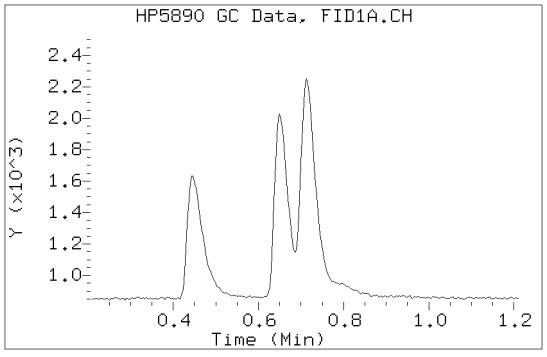


Ethane (74-84-0)

Reason Code: MUP

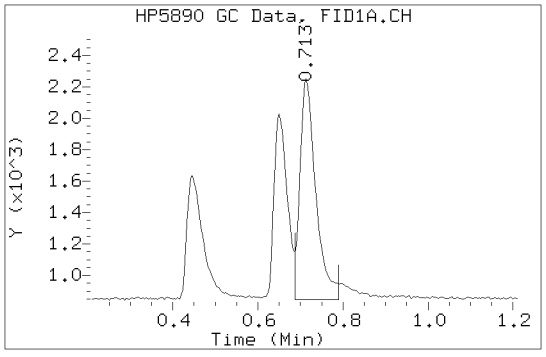
BEFORE

MASS
44
AREA
0
HEIGHT
0
11-Mar-2024
18:03
linh
pham



AFTER

MASS
44
AREA
3691
HEIGHT
1406
11-Mar-2024
18:12
linh
pham



Data File: \\NAHSTWS005\Target\chem\FID-4.i\240301.b\005.D Page 1
Report Date: 11-Mar-2024 18:11

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\240301.b\005.D
Lab Smp Id: RSK-ICAL L4 Client Smp ID: RSK-ICAL L4
Inj Date : 01-MAR-2024 10:01
Operator : PL Inst ID: FID-4.i
Smp Info : RSK-ICAL L4;RSK-ICAL L4;2;4
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\240301.b\RSKNI2.m
Meth Date : 11-Mar-2024 18:06 FID-4.i Quant Type: ESTD
Cal Date : 01-MAR-2024 09:42 Cal File: 004.D
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: stdNI2.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	0.443	0.440	0.003	4065	3.85900	3.613
2 Ethene	0.650	0.643	0.007	5379	6.74000	7.437(M)
3 Ethane	0.713	0.710	0.003	7470	7.21700	7.440(M)
4 Propane	2.023	2.016	0.007	10070	10.5850	10.875
5 N-Butane	4.906	4.886	0.020	13319	13.9820	14.625

QC Flag Legend

M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\FID-4.i\240301.b\005.D

Date : 01-MAR-2024 10:01

Client ID: RSK-ICAL L4

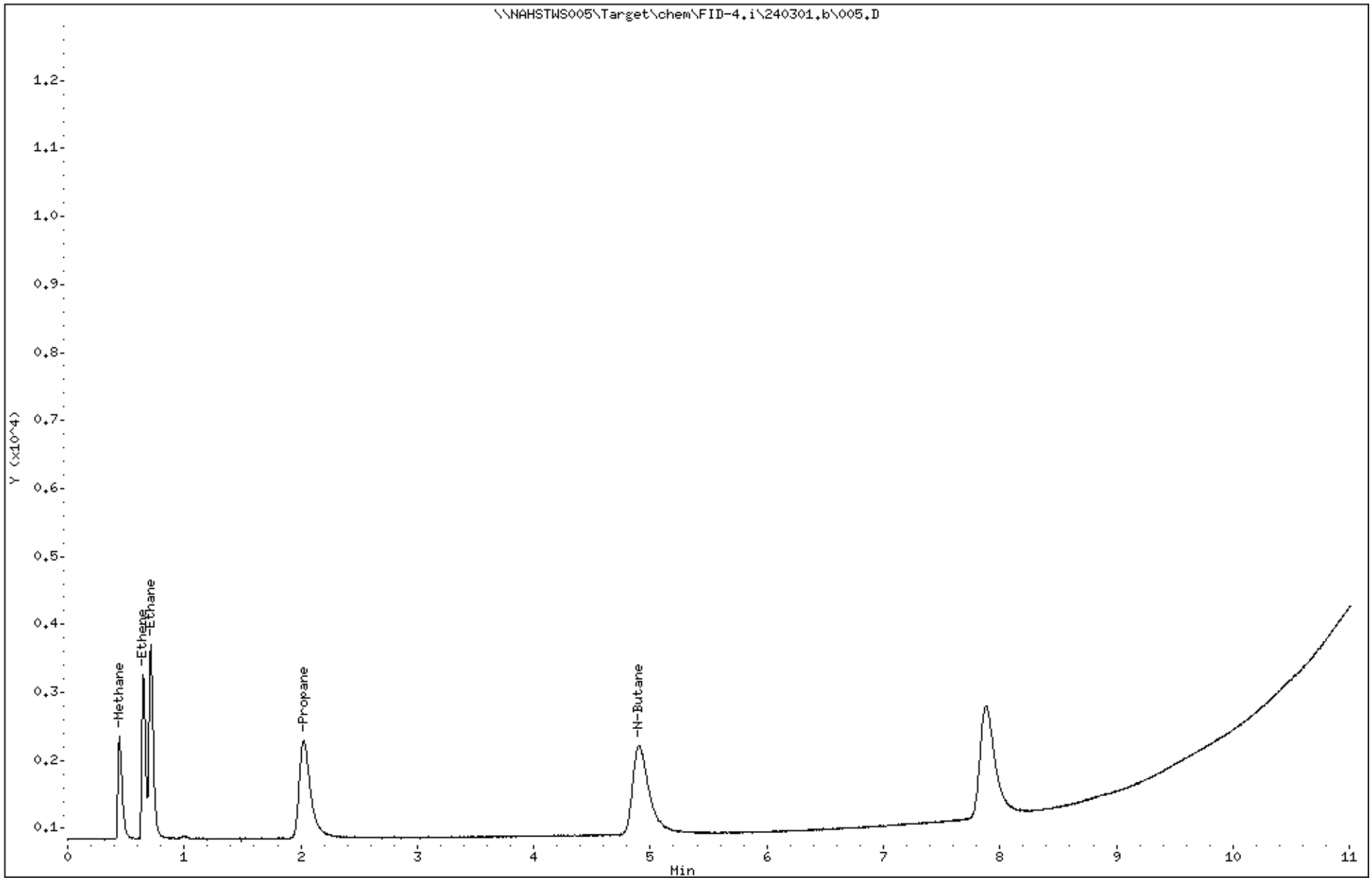
Instrument: FID-4.i

Sample Info: RSK-ICAL L4;RSK-ICAL L4;2;4

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53



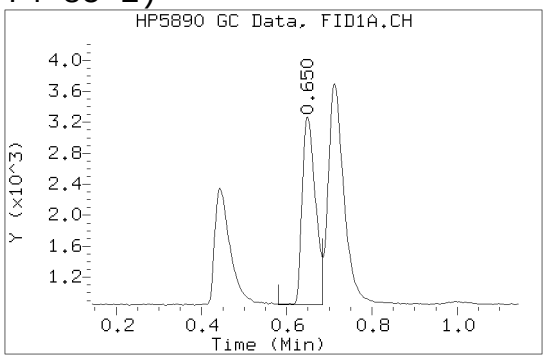
Data File : \\NAHSTWS005\Target\chem\FID-4.i\240301.b\005.D
Inj Date : 01-MAR-2024 10:01
InstruID : FID-4.i
LabSampID : RSK-ICAL L4

Ethene (74-85-1)

Reason Code: MIA

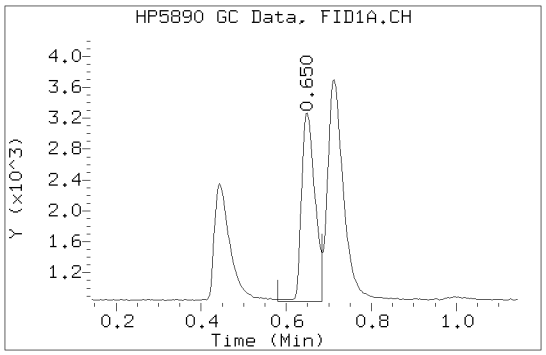
BEFORE

MASS
100
AREA
5231
HEIGHT
2425
11-Mar-2024
18:03
linh
pham



AFTER

MASS
100
AREA
5379
HEIGHT
2438
11-Mar-2024
18:11
linh
pham

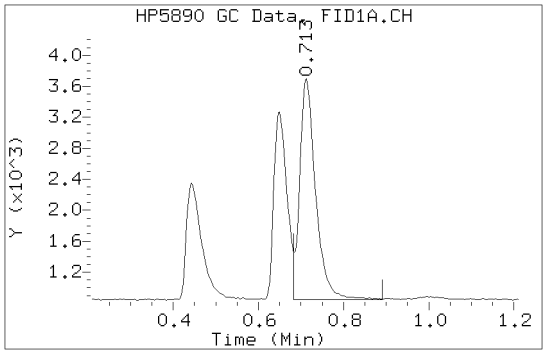


Ethane (74-84-0)

Reason Code: MIA

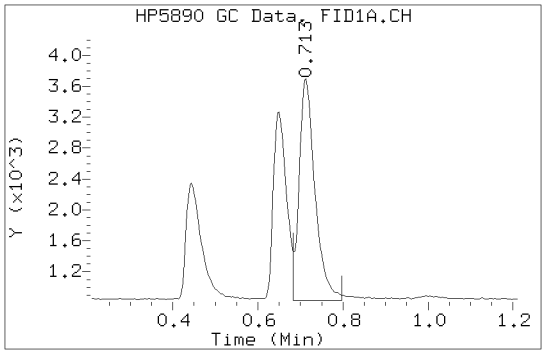
BEFORE

MASS
44
AREA
7464
HEIGHT
2855
11-Mar-2024
18:03
linh
pham



AFTER

MASS
44
AREA
7470
HEIGHT
2867
11-Mar-2024
18:11
linh
pham



Data File: \\NAHSTWS005\Target\chem\FID-4.i\240301.b\006.D Page 1
Report Date: 11-Mar-2024 18:06

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\240301.b\006.D
Lab Smp Id: RSK-ICAL L5 Client Smp ID: RSK-ICAL L5
Inj Date : 01-MAR-2024 10:22
Operator : PL Inst ID: FID-4.i
Smp Info : RSK-ICAL L5;RSK-ICAL L5;2;4
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\240301.b\RSKNI2.m
Meth Date : 11-Mar-2024 18:06 FID-4.i Quant Type: ESTD
Cal Date : 01-MAR-2024 10:01 Cal File: 005.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: stdNI2.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	0.436	0.436	0.000	10502	9.64700	9.334
2 Ethene	0.640	0.640	0.000	14206	16.8500	19.642
3 Ethane	0.703	0.703	0.000	20920	18.0430	20.836
4 Propane	2.020	2.020	0.000	27110	26.4630	29.277
5 N-Butane	4.900	4.900	0.000	35491	34.9550	38.973

Data File: \\NAHSTWS005\Target\chem\FID-4.i\240301.b\006.D

Date : 01-MAR-2024 10:22

Client ID: RSK-ICAL L5

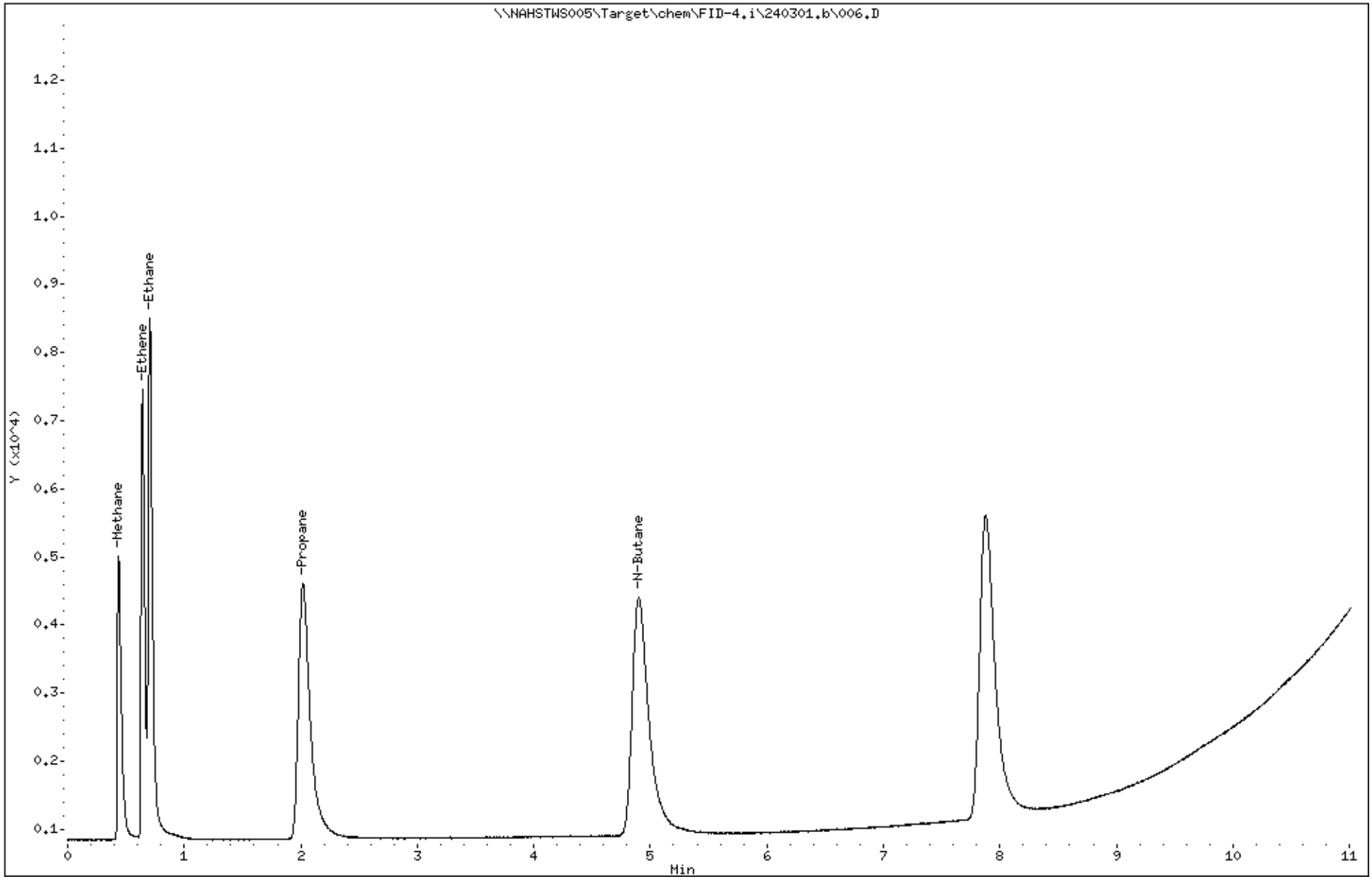
Instrument: FID-4.i

Sample Info: RSK-ICAL L5;RSK-ICAL L5;2;4

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53



Data File : \\NAHSTWS005\Target\chem\FID-4.i\240301.b\006.D
Inj Date : 01-MAR-2024 10:22
InstruID : FID-4.i
LabSampID : RSK-ICAL L5

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\FID-4.i\240301.b\007.D Page 1
Report Date: 11-Mar-2024 18:14

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\240301.b\007.D
Lab Smp Id: RSK-ICAL L6 Client Smp ID: RSK-ICAL L6
Inj Date : 01-MAR-2024 10:37
Operator : PL Inst ID: FID-4.i
Smp Info : RSK-ICAL L6;RSK-ICAL L6;2;4
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\240301.b\RSKNI2.m
Meth Date : 11-Mar-2024 18:06 FID-4.i Quant Type: ESTD
Cal Date : 01-MAR-2024 10:22 Cal File: 006.D
Als bottle: 7 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: stdNI2.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	0.426	0.440	-0.014	20304	19.2940	18.046
2 Ethene	0.633	0.643	-0.010	27621	53.8200	38.191(M)
3 Ethane	0.696	0.710	-0.014	38290	36.0860	38.137(M)
4 Propane	2.013	2.016	-0.003	52875	52.9260	57.102
5 N-Butane	4.893	4.886	0.007	69190	69.9110	75.979

QC Flag Legend

M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\FID-4.i\240301.b\007.D

Date : 01-MAR-2024 10:37

Client ID: RSK-ICAL L6

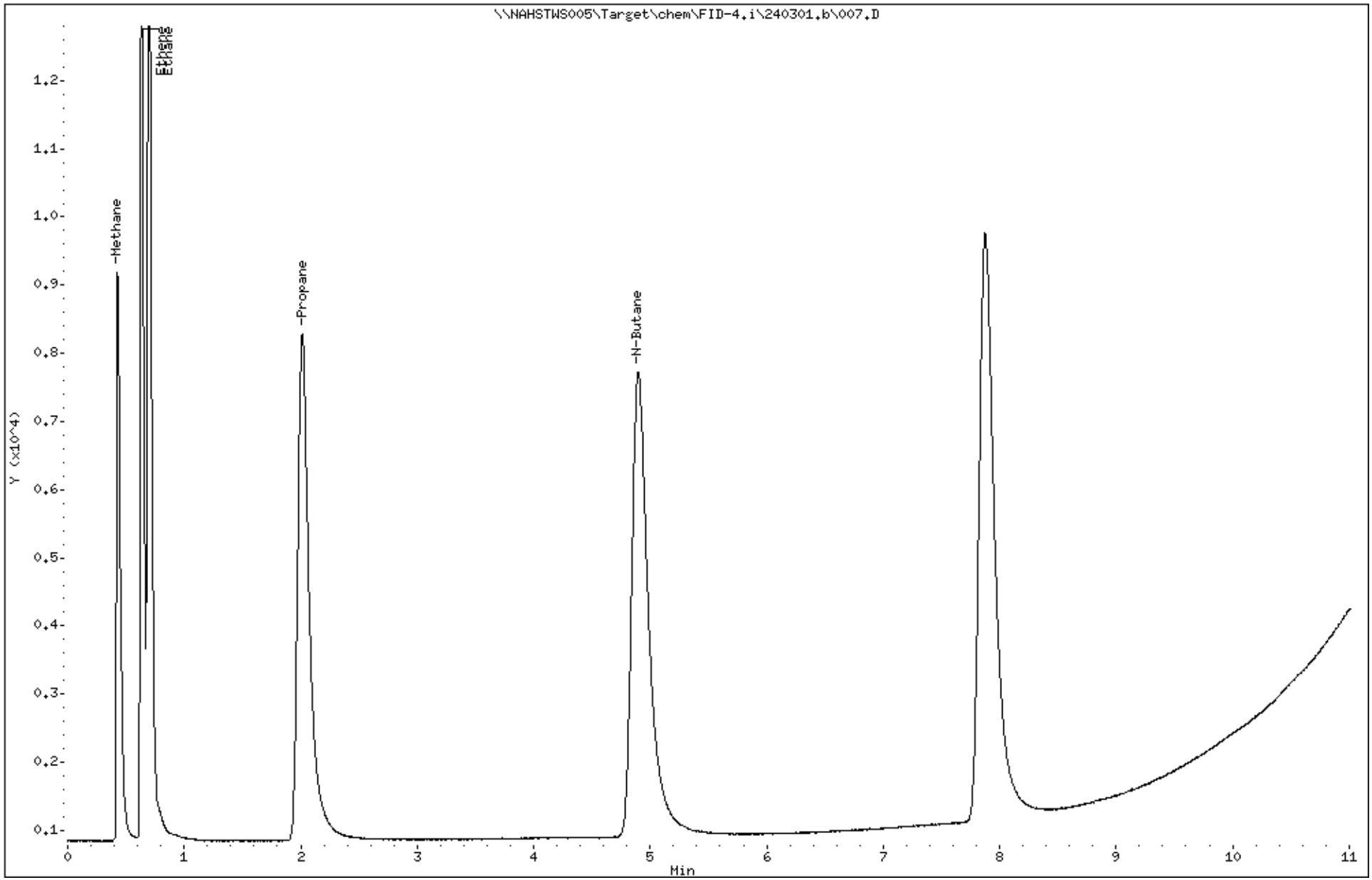
Instrument: FID-4.i

Sample Info: RSK-ICAL L6;RSK-ICAL L6;2;4

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53



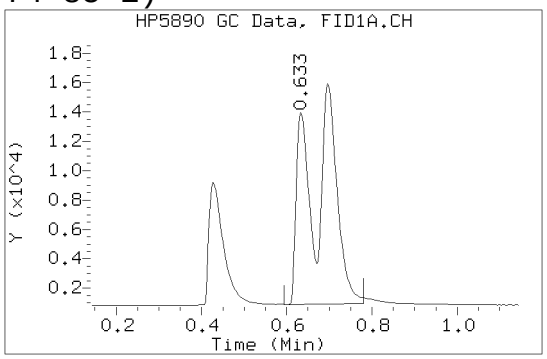
Data File : \\NAHSTWS005\Target\chem\FID-4.i\240301.b\007.D
Inj Date : 01-MAR-2024 10:37
InstruID : FID-4.i
LabSampID : RSK-ICAL L6

Ethene (74-85-1)

Reason Code: MUP

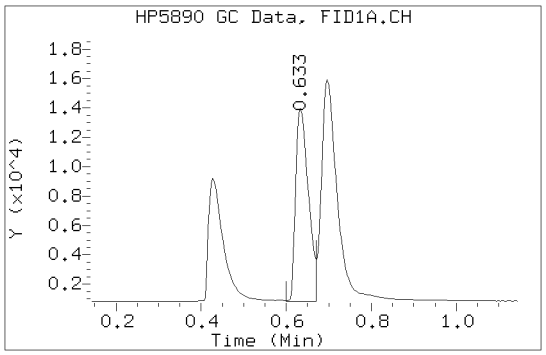
BEFORE

MASS
100
AREA
64499
HEIGHT
13052
11-Mar-2024
18:03
linh
pham



AFTER

MASS
100
AREA
27621
HEIGHT
13106
11-Mar-2024
18:14
linh
pham

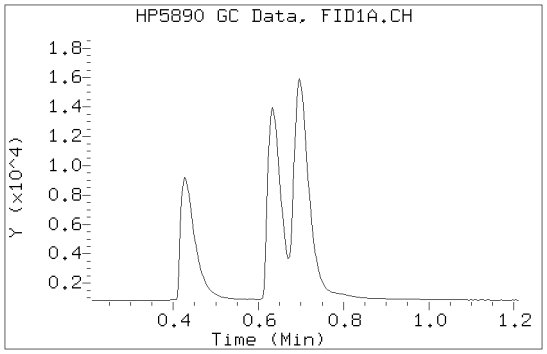


Ethane (74-84-0)

Reason Code: MUP

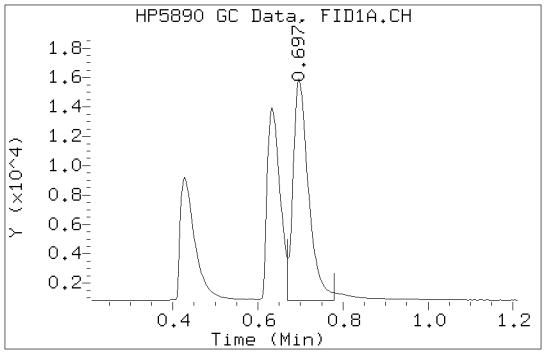
BEFORE

MASS
44
AREA
0
HEIGHT
0
11-Mar-2024
18:03
linh
pham



AFTER

MASS
44
AREA
38290
HEIGHT
15074
11-Mar-2024
18:14
linh
pham



Data File: \\NAHSTWS005\Target\chem\FID-4.i\240301.b\008.D Page 1
Report Date: 11-Mar-2024 18:12

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\240301.b\008.D
Lab Smp Id: RSK-ICAL L7 Client Smp ID: RSK-ICAL L7
Inj Date : 01-MAR-2024 11:04
Operator : PL Inst ID: FID-4.i
Smp Info : RSK-ICAL L7;RSK-ICAL L7;2;4
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\240301.b\RSKNI2.m
Meth Date : 11-Mar-2024 18:06 FID-4.i Quant Type: ESTD
Cal Date : 01-MAR-2024 10:37 Cal File: 007.D
Als bottle: 8 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: stdNI2.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	0.436	0.440	-0.004	39175	38.5880	34.820
2 Ethene	0.640	0.643	-0.003	54673	67.4000	75.596(A)
3 Ethane	0.703	0.710	-0.007	78784	72.1720	78.469(AM)
4 Propane	2.016	2.016	0.000	104463	105.852	112.815(A)
5 N-Butane	4.896	4.886	0.010	138179	139.821	151.737(A)

QC Flag Legend

A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\FID-4.i\240301.b\008.D

Date : 01-MAR-2024 11:04

Client ID: RSK-ICAL L7

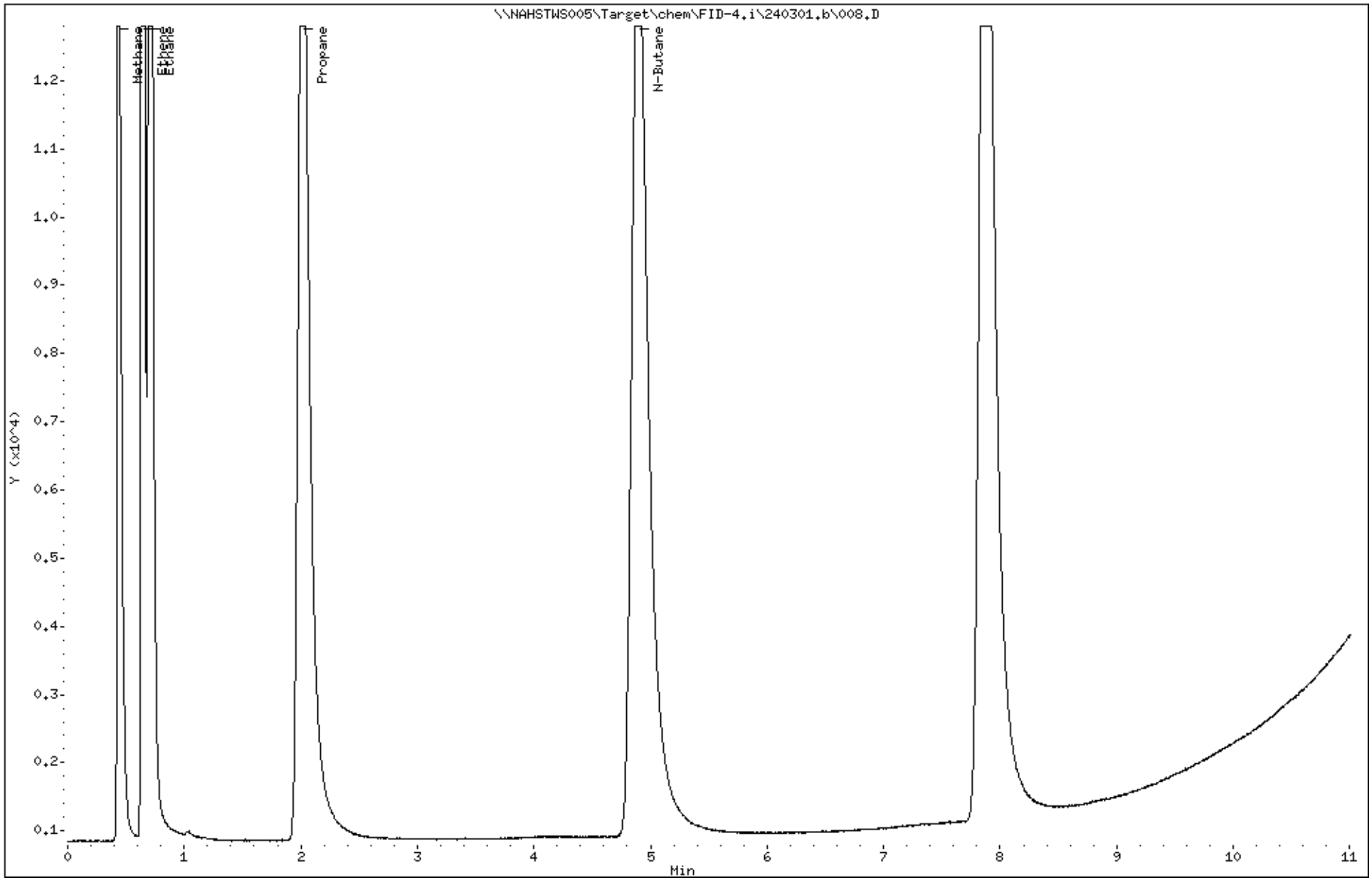
Instrument: FID-4.i

Sample Info: RSK-ICAL L7;RSK-ICAL L7;2;4

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53



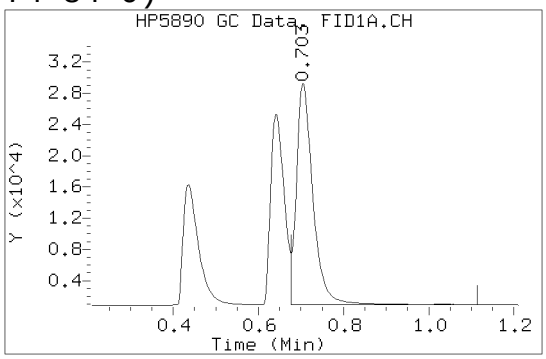
Data File : \\NAHSTWS005\Target\chem\FID-4.i\240301.b\008.D
Inj Date : 01-MAR-2024 11:04
InstruID : FID-4.i
LabSampID : RSK-ICAL L7

Ethane (74-84-0)

Reason Code: MBA

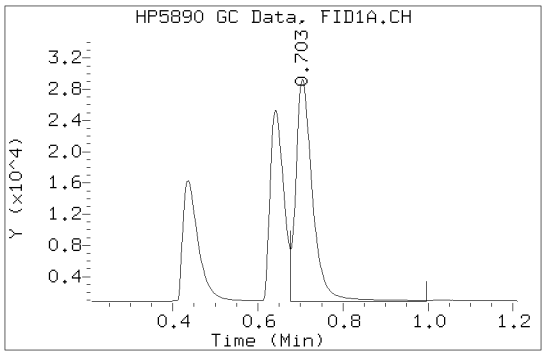
BEFORE

MASS
100
AREA
104463
HEIGHT
14645
01-Mar-2024
11:18
ALSHS
Server



AFTER

MASS
44
AREA
78784
HEIGHT
28380
11-Mar-2024
18:12
ALSHS
Ser



Data File: \\NAHSTWS005\Target\chem\FID-4.i\240301.b\009.D Page 1
Report Date: 11-Mar-2024 18:13

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\240301.b\009.D
Lab Smp Id: RSK-ICAL L1 Client Smp ID: RSK-ICAL L1
Inj Date : 01-MAR-2024 15:48
Operator : PL Inst ID: FID-4.i
Smp Info : RSK-ICAL L1;RSK-ICAL L1;2;4
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\240301.b\RSKNI2.m
Meth Date : 11-Mar-2024 18:06 FID-4.i Quant Type: ESTD
Cal Date : 01-MAR-2024 11:04 Cal File: 008.D
Als bottle: 9 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: stdNI2.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	0.440	0.440	0.000	492	0.38600	0.437(aM)
2 Ethene	0.643	0.643	0.000	402	0.67400	0.555(aM)
3 Ethane	0.710	0.710	0.000	514	0.72200	0.511(a)
4 Propane	2.016	2.016	0.000	680	1.05900	0.734
5 N-Butane	4.886	4.886	0.000	787	1.39800	0.864(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

01337137

Data File: \\NAHSTWS005\Target\chem\FID-4.i\240301.b\009.D

Page 1

Date : 01-MAR-2024 15:48

Client ID: RSK-ICAL L1

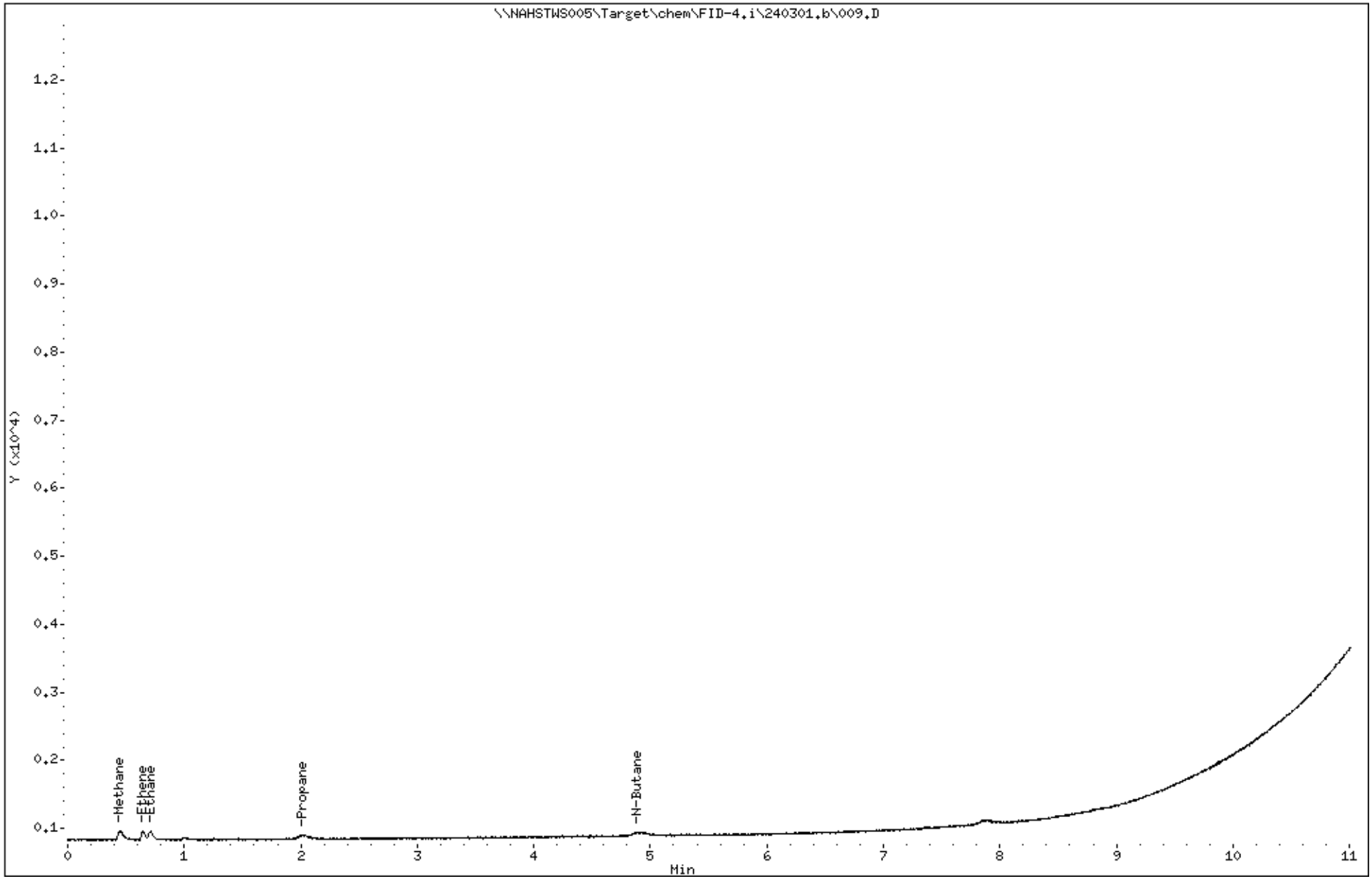
Instrument: FID-4.i

Sample Info: RSK-ICAL L1;RSK-ICAL L1;2;4

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53



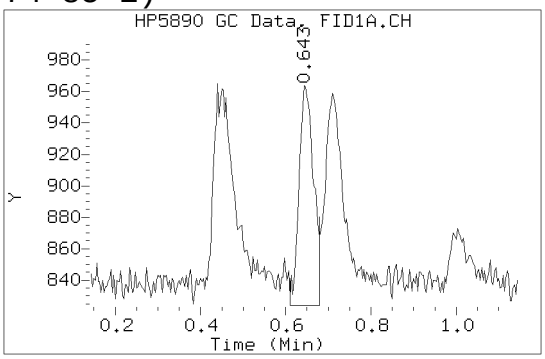
Data File : \\NAHSTWS005\Target\chem\FID-4.i\240301.b\009.D
Inj Date : 01-MAR-2024 15:48
InstruID : FID-4.i
LabSampID : RSK-ICAL L1

Ethene (74-85-1)

Reason Code: MBA

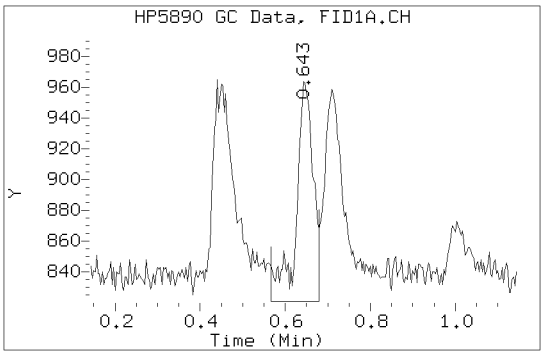
BEFORE

MASS
100
AREA
330
HEIGHT
140
11-Mar-2024
18:03
linh
pham



AFTER

MASS
100
AREA
402
HEIGHT
143
11-Mar-2024
18:13
linh
pham

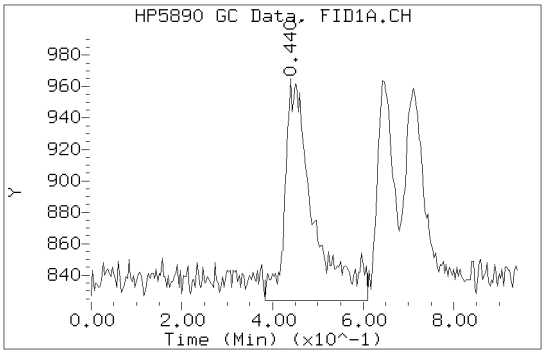


Methane (74-82-8)

Reason Code: MPT

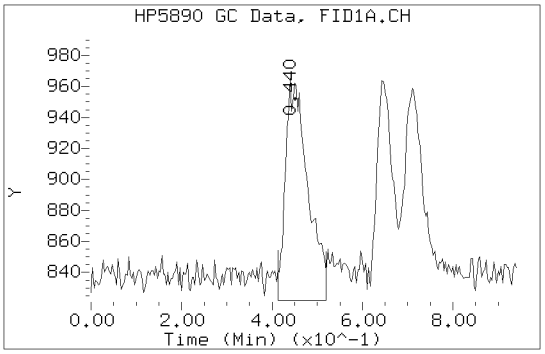
BEFORE

MASS
100
AREA
606
HEIGHT
141
11-Mar-2024
18:03
linh
pham



AFTER

MASS
100
AREA
492
HEIGHT
143
11-Mar-2024
18:13
linh
pham

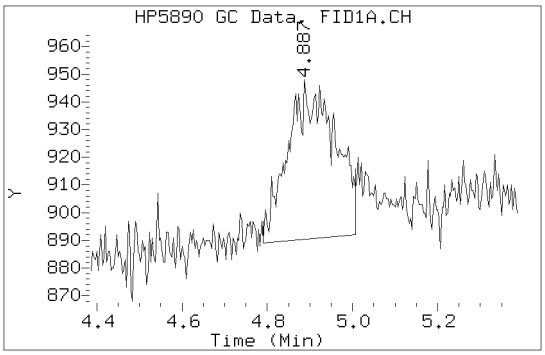


N-Butane (106-97-8)

Reason Code: MBA

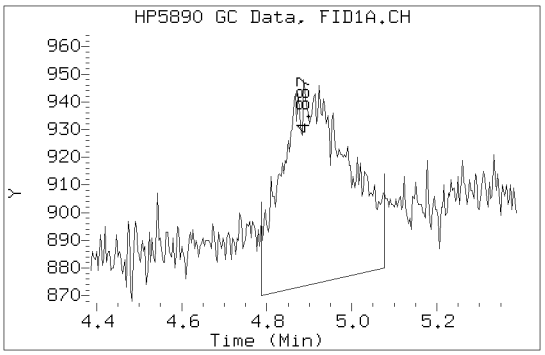
BEFORE

MASS
100
AREA
435
HEIGHT
58
11-Mar-2024
18:03
linh
pham



AFTER

MASS
100
AREA
787
HEIGHT
74
11-Mar-2024
18:13
linh
pham



Data File: \\NAHSTWS005\Target\chem\FID-4.i\240301.b\010.D Page 1
Report Date: 11-Mar-2024 18:14

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\240301.b\010.D
Lab Smp Id: RSK-ICV Client Smp ID: RSK-ICV
Inj Date : 01-MAR-2024 17:00
Operator : PL Inst ID: FID-4.i
Smp Info : RSK-ICV;RSK-ICV;2;4
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\240301.b\RSKNI2.m
Meth Date : 11-Mar-2024 18:06 FID-4.i Quant Type: ESTD
Cal Date : 01-MAR-2024 15:48 Cal File: 009.D
Als bottle: 10 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: stdNI2.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Methane	0.433	0.440	-0.007	9107	8.09464	8.094(M)
2 Ethene	0.640	0.643	-0.003	11911	16.4693	16.469(M)
3 Ethane	0.703	0.710	-0.007	17066	16.9979	16.997(M)
4 Propane	2.016	2.016	0.000	22796	24.6186	24.618
5 N-Butane	4.866	4.886	-0.020	30004	32.9481	32.948

QC Flag Legend

M - Compound response manually integrated.

01337140

Data File: \\NAHSTWS005\Target\chem\FID-4.i\240301.b\010.D

Page 1

Date : 01-MAR-2024 17:00

Client ID: RSK-ICV

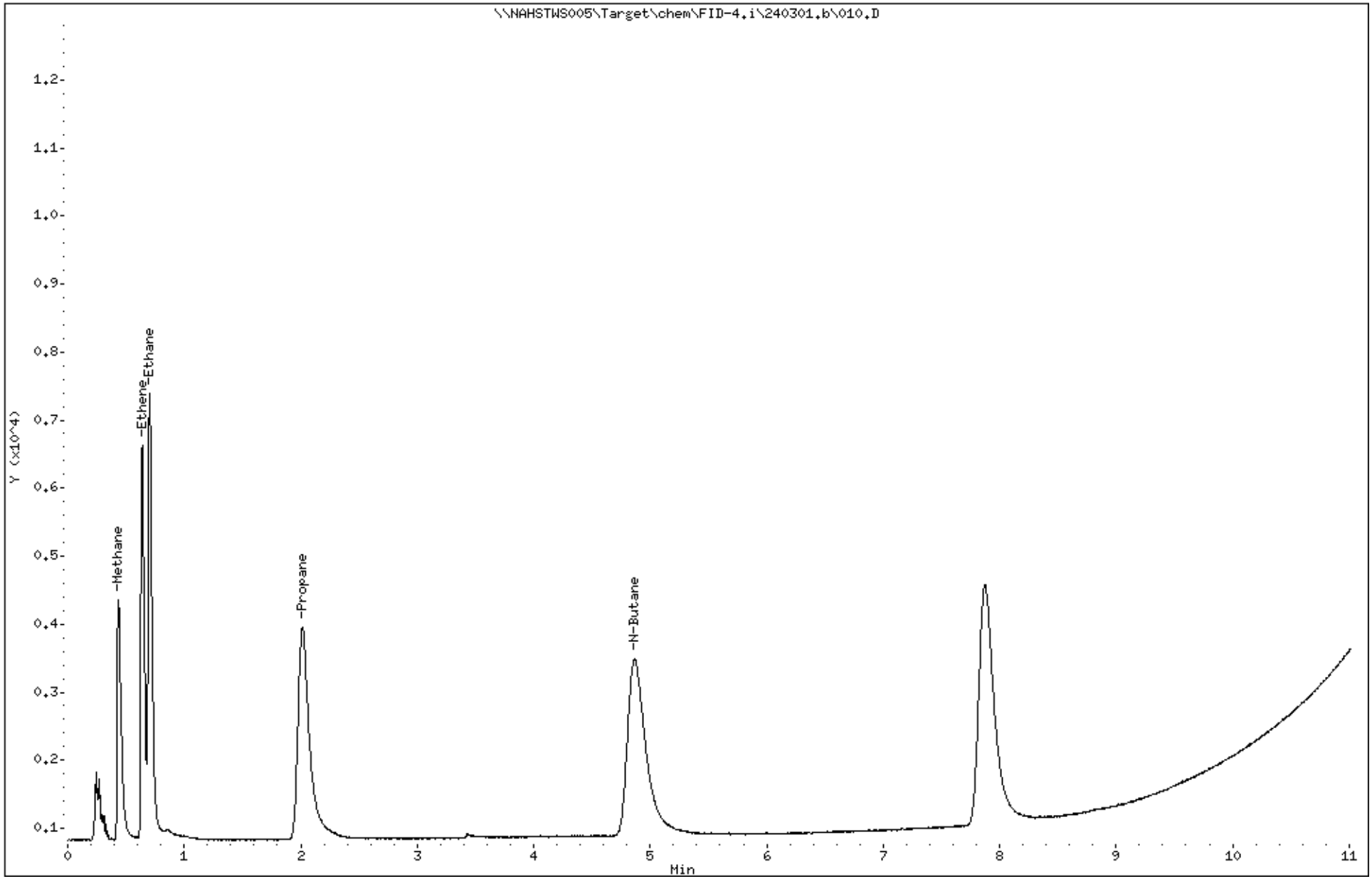
Instrument: FID-4.i

Sample Info: RSK-ICV;RSK-ICV;2;4

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53



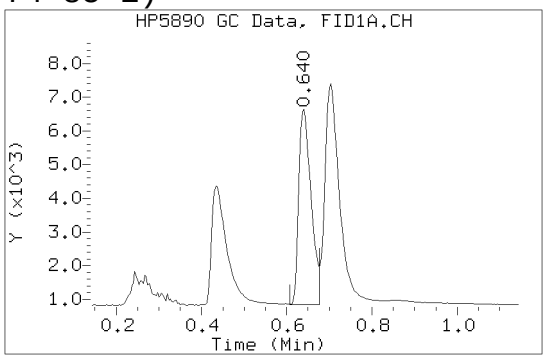
Data File : \\NAHSTWS005\Target\chem\FID-4.i\240301.b\010.D
Inj Date : 01-MAR-2024 17:00
InstruID : FID-4.i
LabSampID : RSK-ICV

Ethene (74-85-1)

Reason Code: MBA

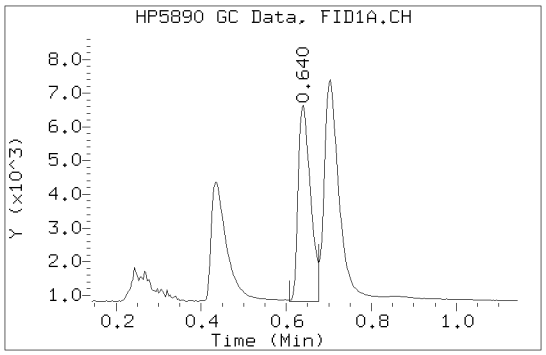
BEFORE

MASS
100
AREA
11711
HEIGHT
5791
11-Mar-2024
18:03
linh
pham



AFTER

MASS
100
AREA
11911
HEIGHT
5810
11-Mar-2024
18:14
linh
pham

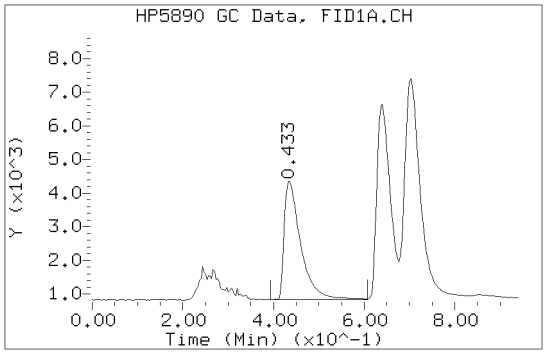


Methane (74-82-8)

Reason Code: MBA

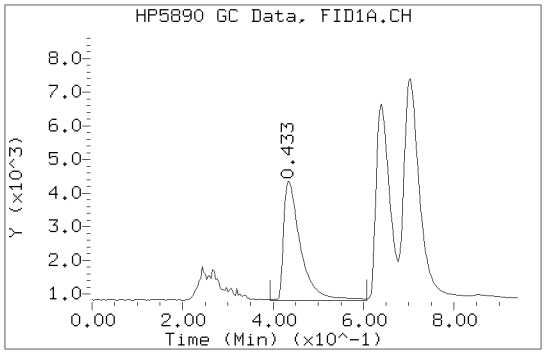
BEFORE

MASS
100
AREA
8956
HEIGHT
3536
11-Mar-2024
18:03
linh
pham



AFTER

MASS
100
AREA
9107
HEIGHT
3542
11-Mar-2024
18:14
linh
pham

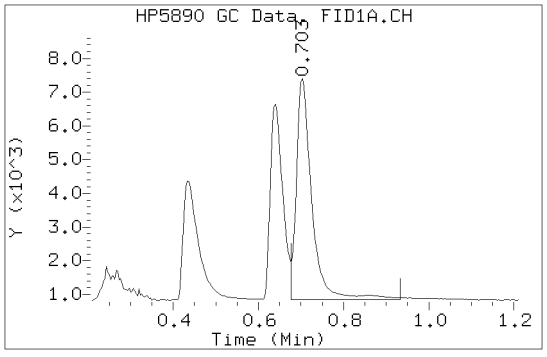


Ethane (74-84-0)

Reason Code: MBA

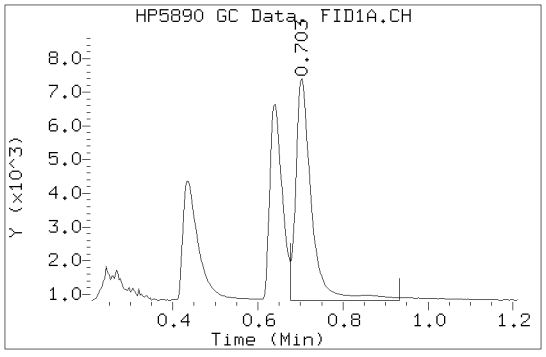
BEFORE

MASS
44
AREA
16654
HEIGHT
6554
11-Mar-2024
18:03
linh
pham



AFTER

MASS
44
AREA
17066
HEIGHT
6573
11-Mar-2024
18:14
linh
pham



right solutions.
right partner.

RawData

<textMethods>

Workorder

HS24051535

Client

Bhate Environmental Associates, Inc.

Project

LHAAP-58

06/24/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Data File: \\nahstws005\Target\chem\FID-4.i\240605.b\004.D Page 1
Report Date: 05-Jun-2024 16:20

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\nahstws005\Target\chem\FID-4.i\240605.b\004.D
Lab Smp Id: RSK-CCV Client Smp ID: RSK-CCV
Inj Date : 05-JUN-2024 11:53
Operator : PL Inst ID: FID-4.i
Smp Info : RSK-CCV;RSK-CCV;2;4
Misc Info : ;1;0;1
Comment :
Method : \\nahstws005\Target\chem\FID-4.i\240605.b\RSKNI3.m
Meth Date : 05-Jun-2024 15:53 elona.hasa Quant Type: ESTD
Cal Date : 01-MAR-2024 11:04 Cal File: 008.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	0.440	0.440	0.000	10203	9.64700	9.068
2 Ethene	0.643	0.643	0.000	11251	16.8500	15.556
3 Ethane	0.706	0.706	0.000	17445	18.0430	17.375(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\nahstws005\Target\chem\FID-4.i\240605.b\004.D

Date : 05-JUN-2024 11:53

Client ID: RSK-CCV

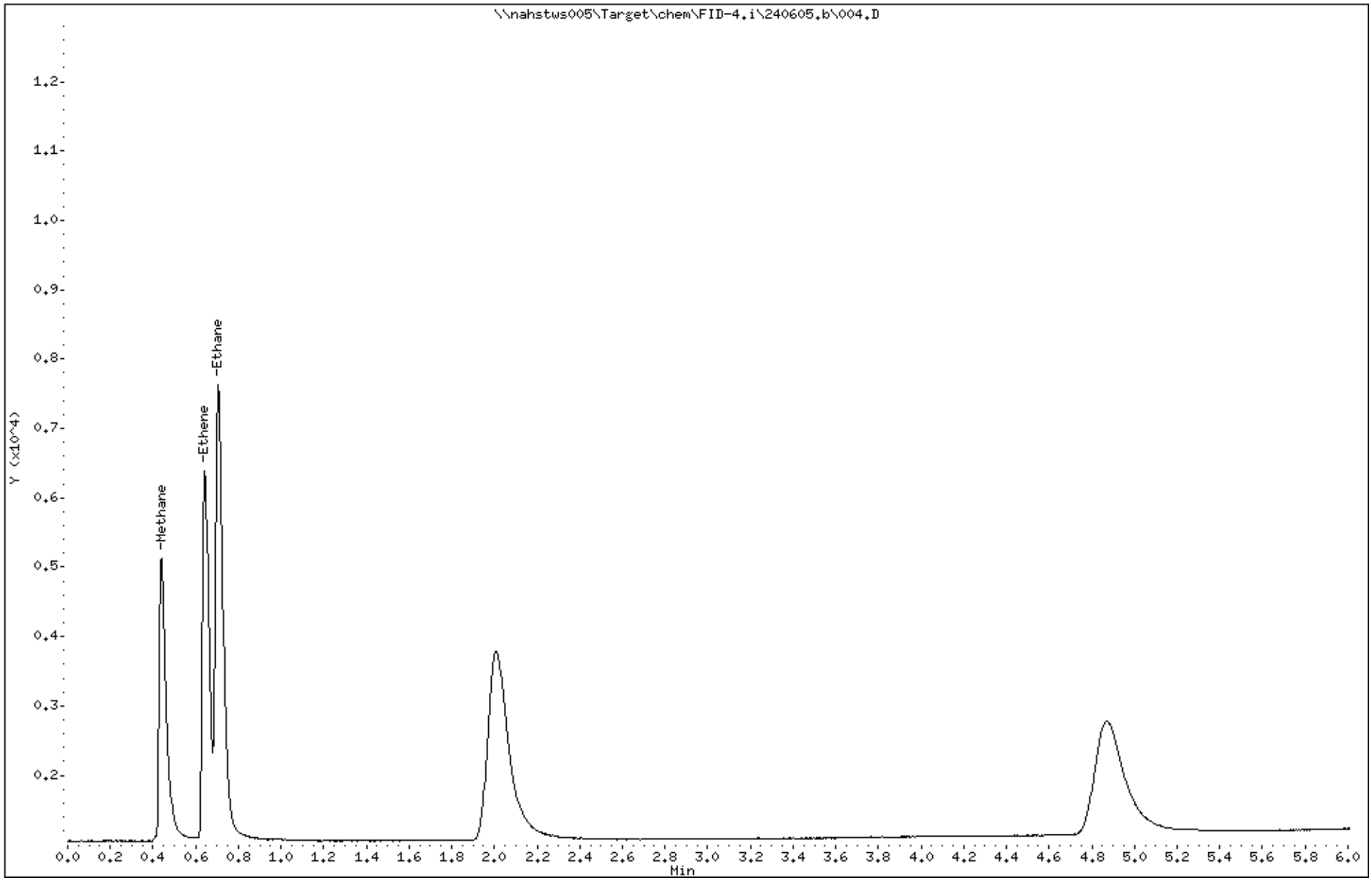
Instrument: FID-4.i

Sample Info: RSK-CCV;RSK-CCV;2;4

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53



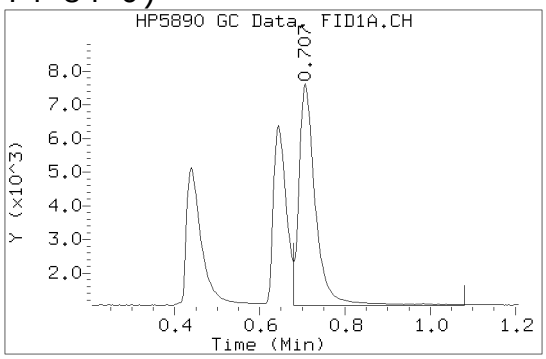
Data File : \\nahstws005\Target\chem\FID-4.i\240605.b\004.D
Inj Date : 05-JUN-2024 11:53
InstruID : FID-4.i
LabSampID : RSK-CCV

Ethane (74-84-0)

Reason Code: MUP

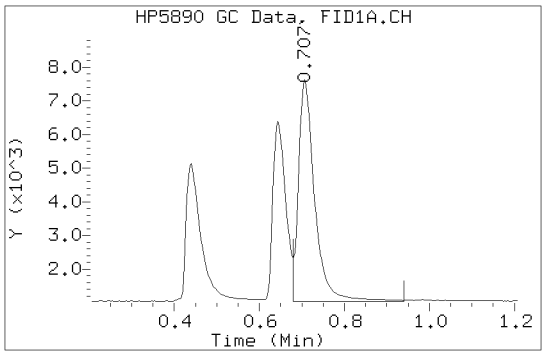
BEFORE

MASS
44
AREA
17510
HEIGHT
6582
05-Jun-2024
12:02
ALSHS
Server



AFTER

MASS
44
AREA
17445
HEIGHT
6582
05-Jun-2024
16:20
ALSHS
Server



Data File: \\NAHSTWS005\Target\chem\FID-4.i\240605.b\005.D Page 1
Report Date: 05-Jun-2024 12:59

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\240605.b\005.D
Lab Smp Id: MBLK-240605 Client Smp ID: MBLK-240605
Inj Date : 05-JUN-2024 12:11
Operator : PL Inst ID: FID-4.i
Smp Info : MBLK-240605;MBLK-240605;3;;BLANK
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\240605.b\RSKNI3.m
Meth Date : 05-Jun-2024 12:10 elona.hasa Quant Type: ESTD
Cal Date : 01-MAR-2024 11:04 Cal File: 008.D
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7025

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
==========	====	========	========	========	=======	=======

Data File: \\NAHSTWS005\Target\chem\FID-4.i\240605.b\005.D

Date : 05-JUN-2024 12:11

Client ID: MBLK-240605

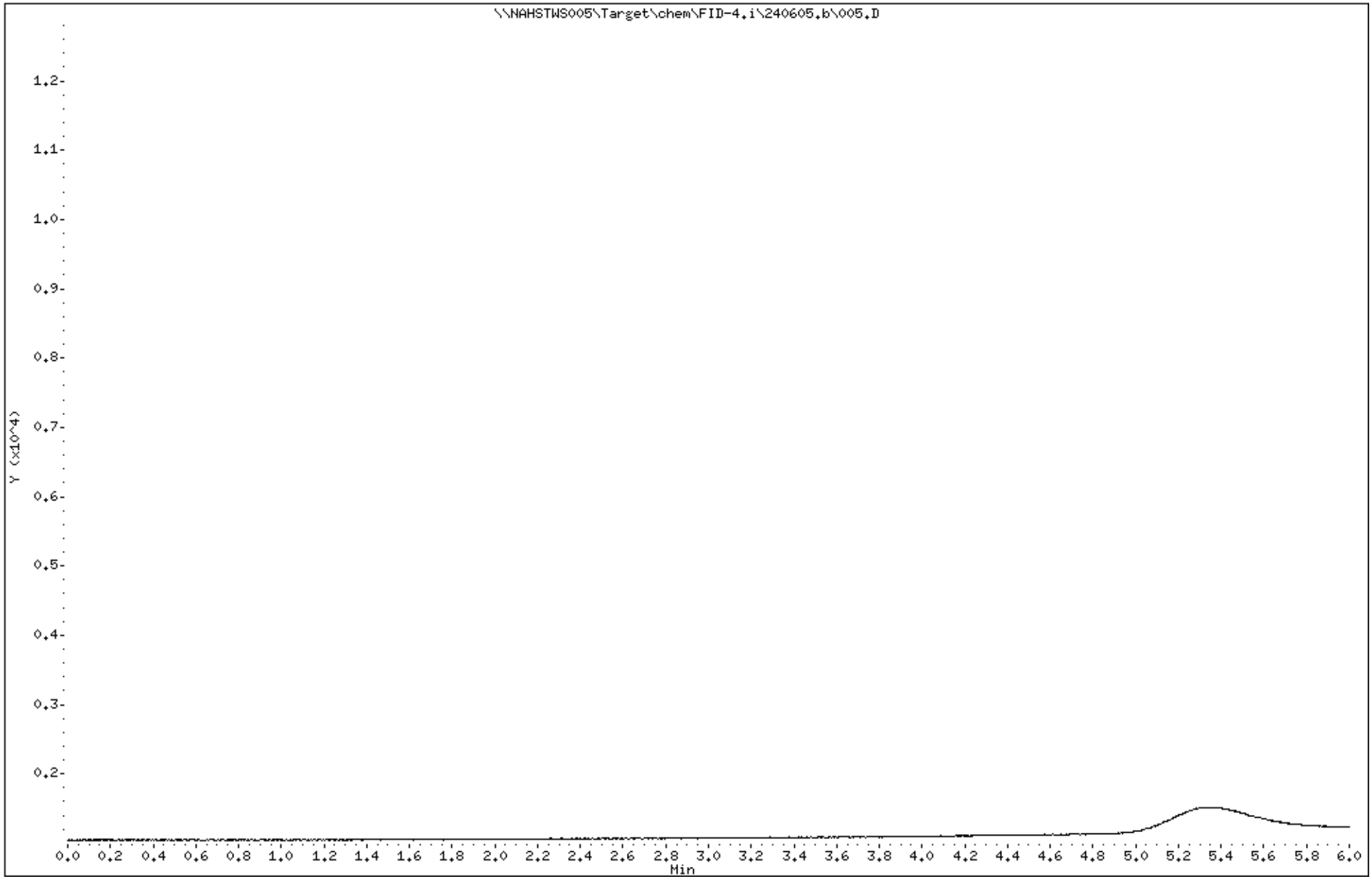
Instrument: FID-4.i

Sample Info: MBLK-240605;MBLK-240605;3;;BLANK

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53



Data File : \\NAHSTWS005\Target\chem\FID-4.i\240605.b\005.D
Inj Date : 05-JUN-2024 12:11
InstruID : FID-4.i
LabSampID : MBLK-240605

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\FID-4.i\240605.b\006.D Page 1
Report Date: 05-Jun-2024 12:59

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\240605.b\006.D
Lab Smp Id: LCS-240605 Client Smp ID: LCS-240605
Inj Date : 05-JUN-2024 12:21
Operator : PL Inst ID: FID-4.i
Smp Info : LCS-240605;LCS-240605;3;;LCS
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\240605.b\RSKNI3.m
Meth Date : 05-Jun-2024 12:10 elona.hasa Quant Type: ESTD
Cal Date : 01-MAR-2024 11:04 Cal File: 008.D
Als bottle: 6 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7025

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Methane	0.433	0.440	-0.007	9678	8.60217	8.602
2 Ethene	0.640	0.643	-0.003	11313	15.6424	15.642
3 Ethane	0.703	0.706	-0.003	15445	15.3833	15.383

Data File: \\NAHSTWS005\Target\chem\FID-4.i\240605.b\006.D

Date : 05-JUN-2024 12:21

Client ID: LCS-240605

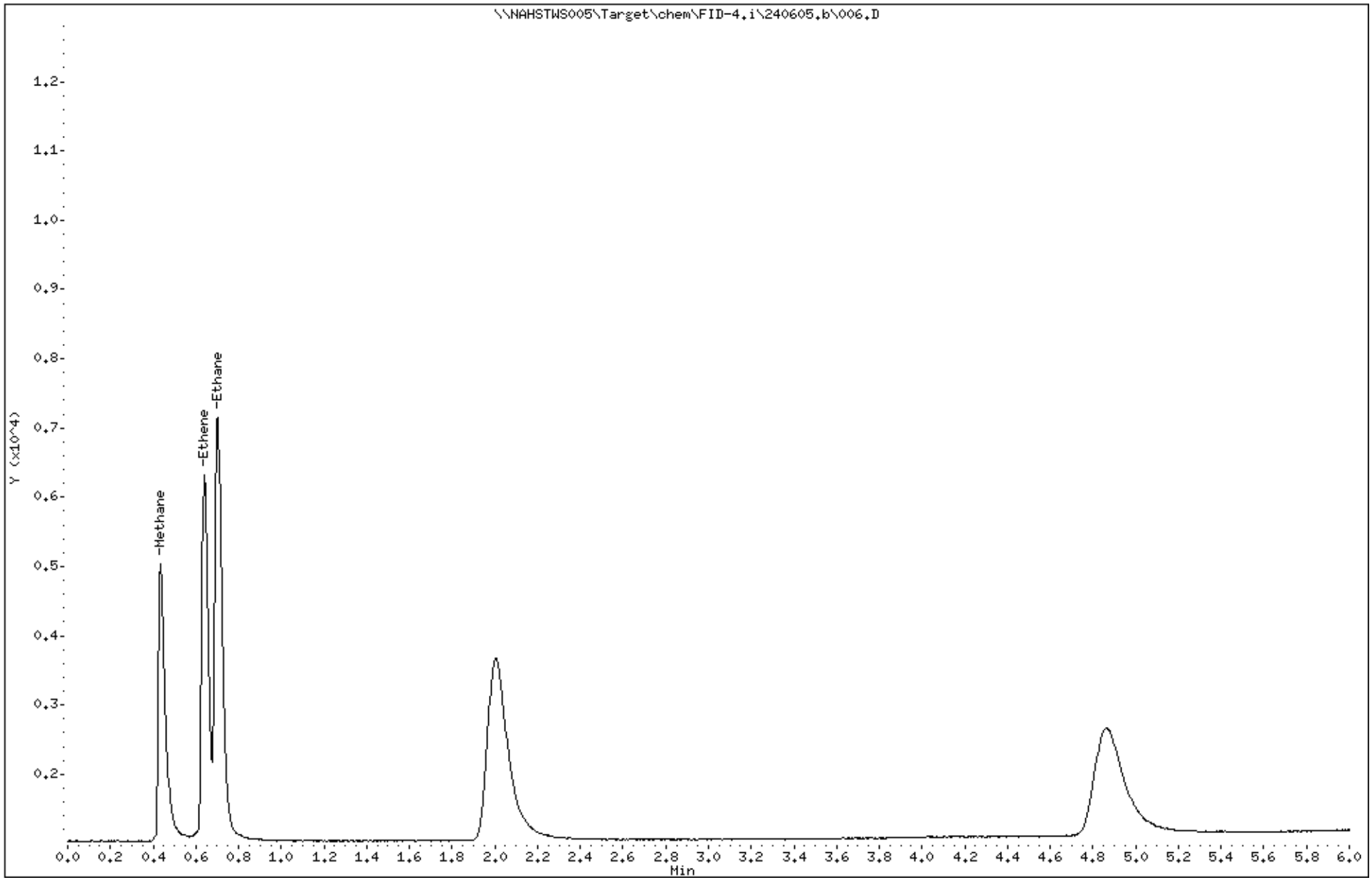
Instrument: FID-4.i

Sample Info: LCS-240605;LCS-240605;3;;LCS

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53



Data File : \\NAHSTWS005\Target\chem\FID-4.i\240605.b\006.D
Inj Date : 05-JUN-2024 12:21
InstruID : FID-4.i
LabSampID : LCS-240605

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\FID-4.i\240605.b\007.D Page 1
Report Date: 05-Jun-2024 13:00

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\240605.b\007.D
Lab Smp Id: LCSD-240605 Client Smp ID: LCSD-240605
Inj Date : 05-JUN-2024 12:36
Operator : PL Inst ID: FID-4.i
Smp Info : LCSD-240605;LCSD-240605;3;;LCSD
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\240605.b\RSKNI3.m
Meth Date : 05-Jun-2024 12:10 elona.hasa Quant Type: ESTD
Cal Date : 01-MAR-2024 11:04 Cal File: 008.D
Als bottle: 7 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7025

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Methane	0.436	0.440	-0.004	10198	9.06436	9.064
2 Ethene	0.640	0.643	-0.003	11785	16.2951	16.295
3 Ethane	0.703	0.706	-0.003	15777	15.7140	15.714(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\FID-4.i\240605.b\007.D

Date : 05-JUN-2024 12:36

Client ID: LCSD-240605

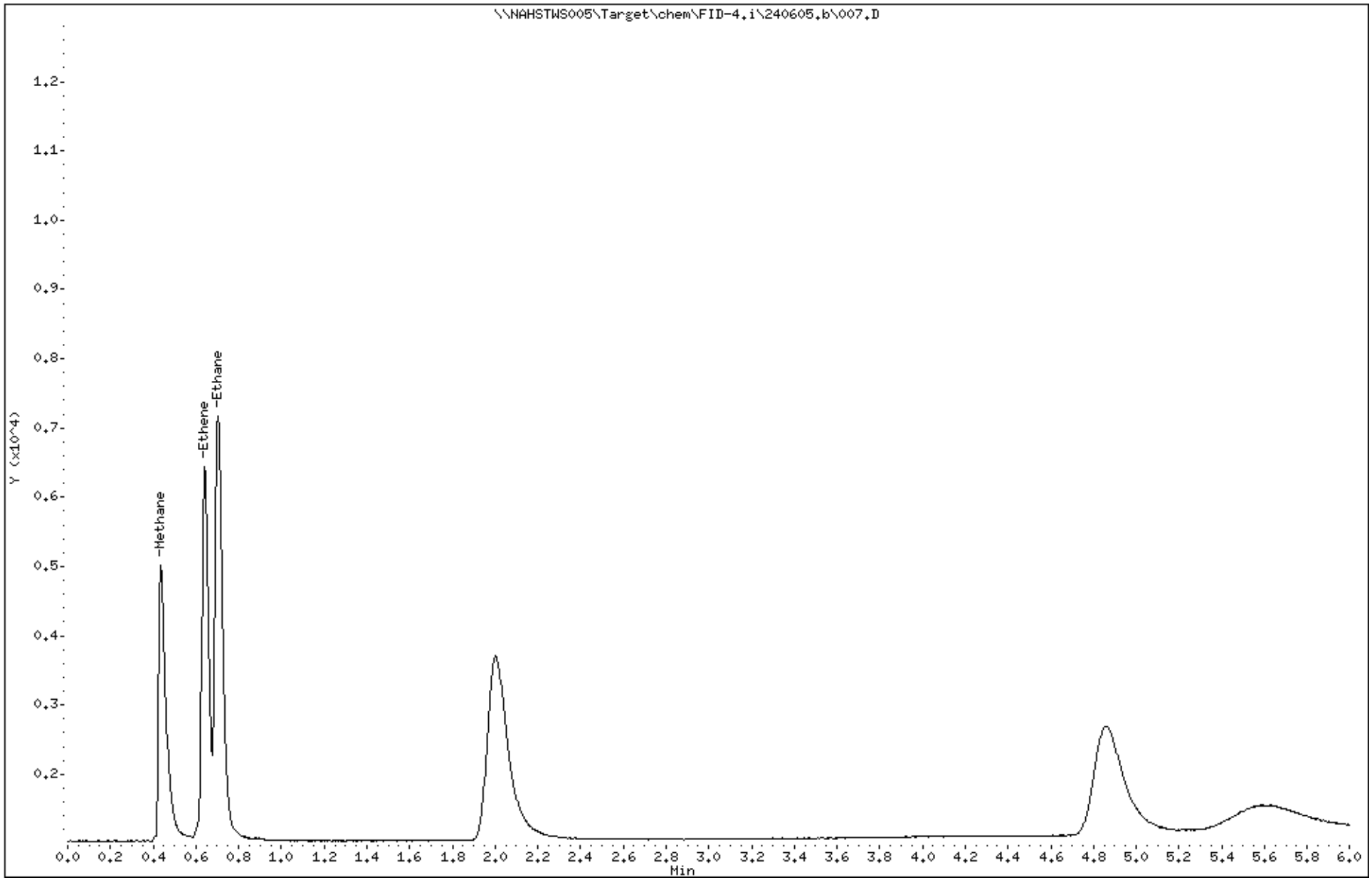
Instrument: FID-4.i

Sample Info: LCSD-240605;LCSD-240605;3;;LCSD

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53



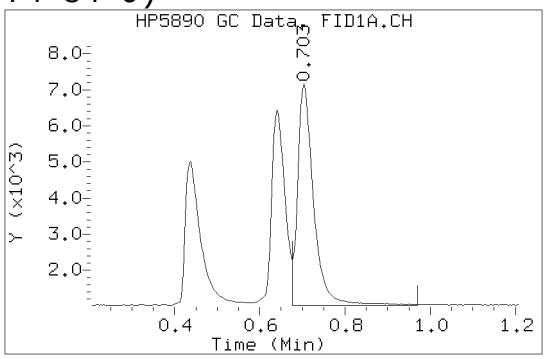
Data File : \\NAHSTWS005\Target\chem\FID-4.i\240605.b\007.D
Inj Date : 05-JUN-2024 12:36
InstruID : FID-4.i
LabSampID : LCSD-240605

Ethane (74-84-0)

Reason Code:

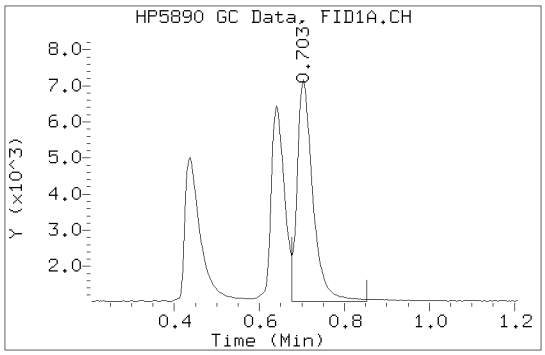
BEFORE

MASS
44
AREA
15843
HEIGHT
6130
05-Jun-2024
12:44
ALSHS
Server



AFTER

MASS
44
AREA
15777
HEIGHT
6130
05-Jun-2024
13:00
ALSHS
Server



Data File: \\NAHSTWS005\Target\chem\FID-4.i\240605.b\014.D Page 1
Report Date: 05-Jun-2024 14:05

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\240605.b\014.D
Lab Smp Id: RSK-CCV Client Smp ID: RSK-CCV
Inj Date : 05-JUN-2024 13:52
Operator : PL Inst ID: FID-4.i
Smp Info : RSK-CCV;RSK-CCV;2;4
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\240605.b\RSKNI3.m
Meth Date : 05-Jun-2024 14:03 elona.hasa Quant Type: ESTD
Cal Date : 01-MAR-2024 11:04 Cal File: 008.D
Als bottle: 14 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7025

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	0.440	0.440	0.000	10299	9.64700	9.154
2 Ethene	0.643	0.643	0.000	11132	16.8500	15.392
3 Ethane	0.706	0.706	0.000	16088	18.0430	16.023

Data File: \\NAHSTWS005\Target\chem\FID-4.i\240605.b\014.D

Date : 05-JUN-2024 13:52

Client ID: RSK-CCV

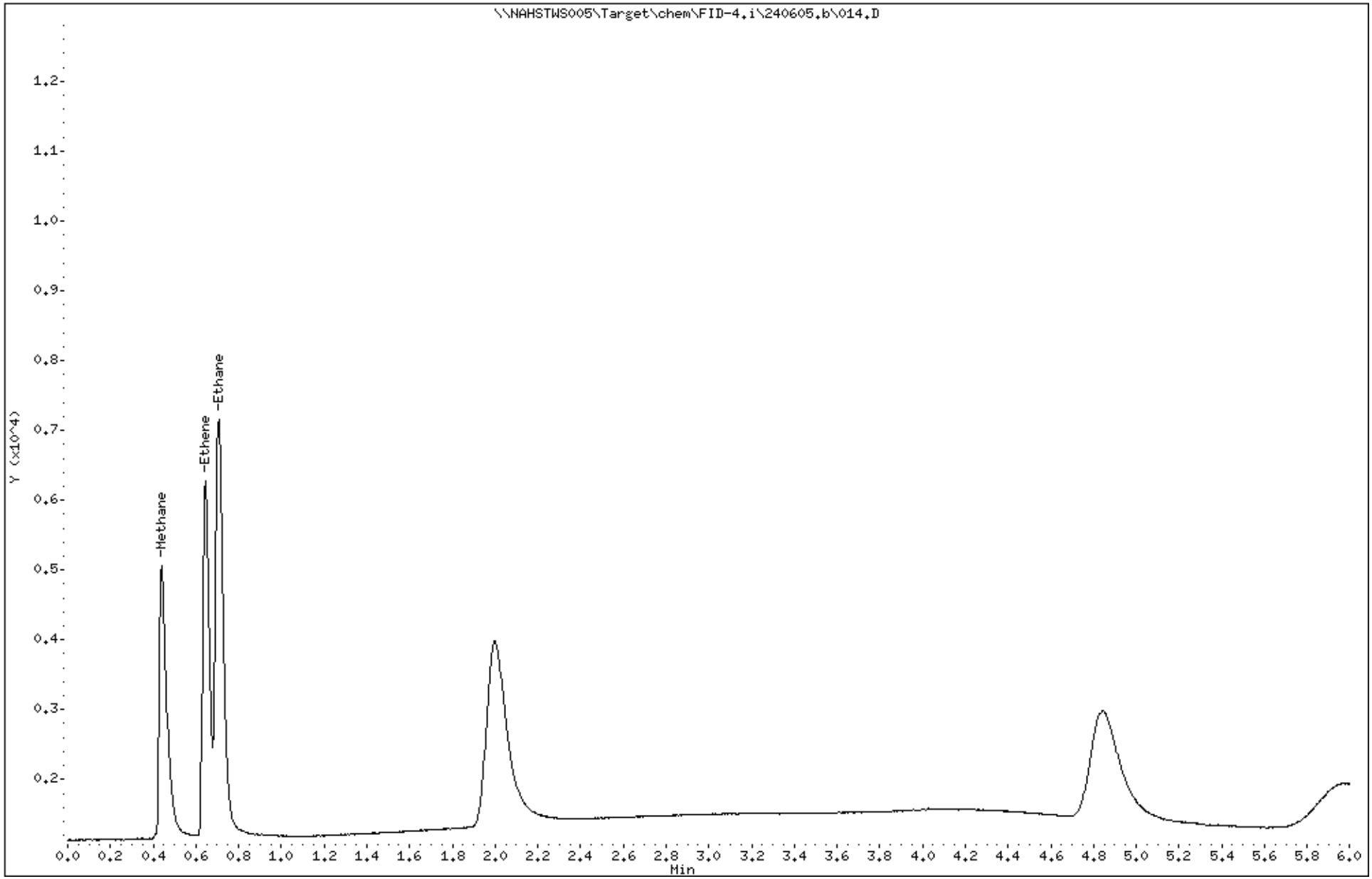
Instrument: FID-4.i

Sample Info: RSK-CCV;RSK-CCV;2;4

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53



Data File : \\NAHSTWS005\Target\chem\FID-4.i\240605.b\014.D
Inj Date : 05-JUN-2024 13:52
InstruID : FID-4.i
LabSampID : RSK-CCV

NO MANUAL INTEGRATIONS

Data File: \\nahstws005\Target\chem\FID-4.i\240605.b\020.D Page 1
Report Date: 05-Jun-2024 16:30

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\nahstws005\Target\chem\FID-4.i\240605.b\020.D
Lab Smp Id: HS24051535-01 Client Smp ID: HS24051535-01
Inj Date : 05-JUN-2024 14:52
Operator : PL Inst ID: FID-4.i
Smp Info : HS24051535-01;HS24051535-01
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\240605.b\RSKNI3.m
Meth Date : 05-Jun-2024 15:53 elona.hasa Quant Type: ESTD
Cal Date : 01-MAR-2024 11:04 Cal File: 008.D
Als bottle: 20
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7025

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Methane	0.436	0.440	-0.004	1295	1.15104	1.151(M)
3 Ethane	0.680	0.706	-0.026	694	0.69123	0.691(aMH)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\nahstws005\Target\chem\FID-4.i\240605.b\020.D

Date : 05-JUN-2024 14:52

Client ID: HS24051535-01

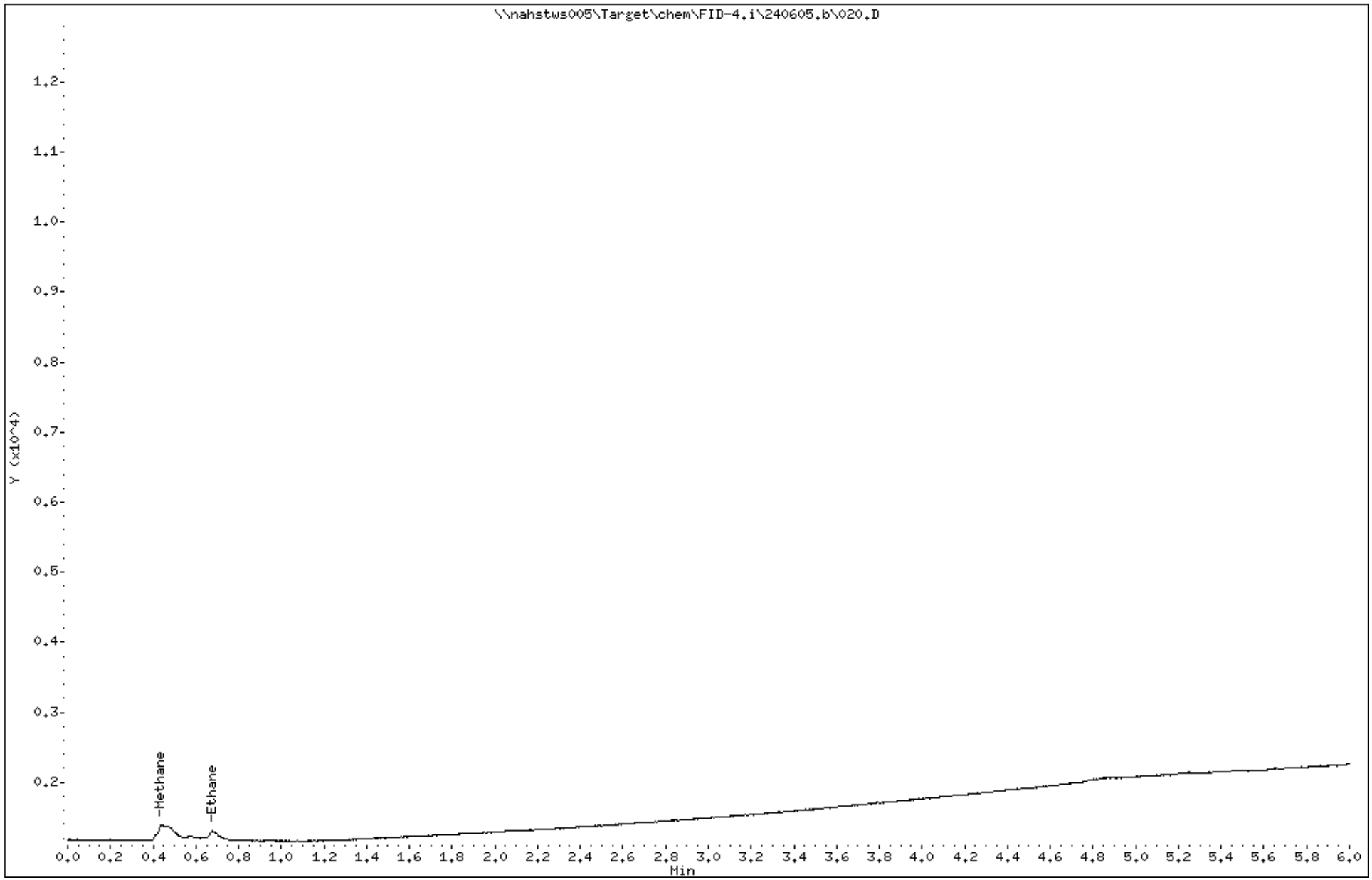
Instrument: FID-4.i

Sample Info: HS24051535-01;HS24051535-01

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53



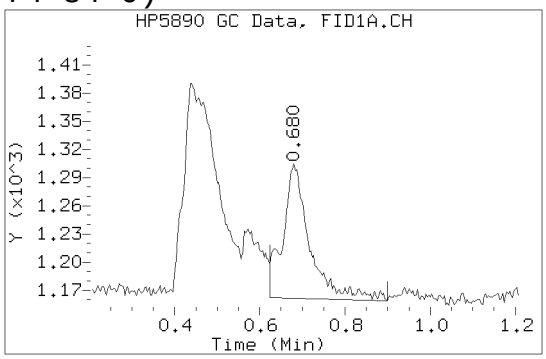
Data File : \\nahstws005\Target\chem\FID-4.i\240605.b\020.D
Inj Date : 05-JUN-2024 14:52
InstruID : FID-4.i
LabSampID : HS24051535-01

Ethane (74-84-0)

Reason Code: MIP

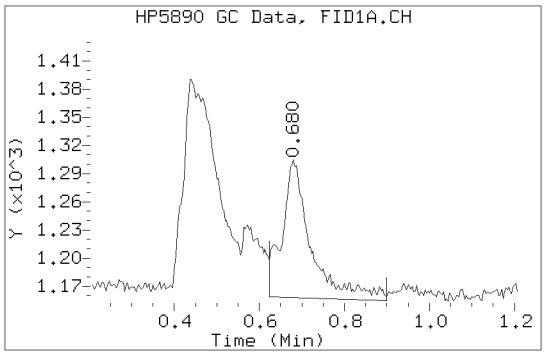
BEFORE

MASS
44
AREA
632
HEIGHT
144
05-Jun-2024
15:03
ALSHS
Server



AFTER

MASS
44
AREA
694
HEIGHT
146
05-Jun-2024
16:29
ALSHS
Server

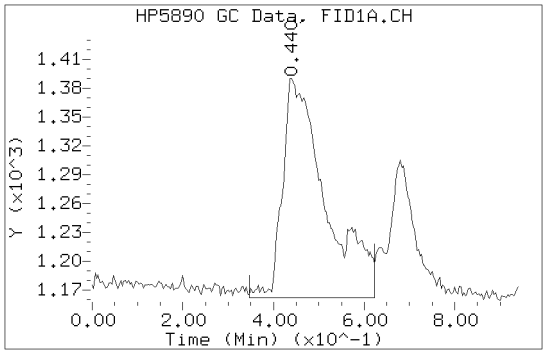


Methane (74-82-8)

Reason Code: MIP

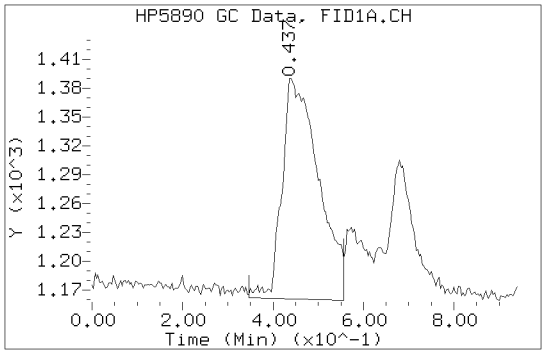
BEFORE

MASS
100
AREA
303
HEIGHT
26
05-Jun-2024
15:03
ALSHS
Server



AFTER

MASS
100
AREA
1295
HEIGHT
229
05-Jun-2024
16:29
ALSHS
Server



Data File: \\NAHSTWS005\Target\chem\FID-4.i\240605.b\021.D Page 1
Report Date: 24-Jun-2024 09:38

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\240605.b\021.D
Lab Smp Id: HS24051535-02 Client Smp ID: HS24051535-02
Inj Date : 05-JUN-2024 15:01
Operator : PL Inst ID: FID-4.i
Smp Info : HS24051535-02;HS24051535-02
Misc Info : ;1;0;1
Comment :
Method : \\nahstws005\Target\chem\FID-4.i\240605.b\RSKNI3.m
Meth Date : 24-Jun-2024 09:36 r.patel Quant Type: ESTD
Cal Date : 05-JUN-2024 17:57 Cal File: 039.D
Als bottle: 21
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Methane	0.440	0.436	0.004	1861386	1371.18	1371.177(AM)
2 Ethene	0.630	0.640	-0.010	11186	13.3644	13.364(M)
3 Ethane	0.690	0.703	-0.013	9838	8.48545	8.485(M)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\FID-4.i\240605.b\021.D

Date : 05-JUN-2024 15:01

Client ID: HS24051535-02

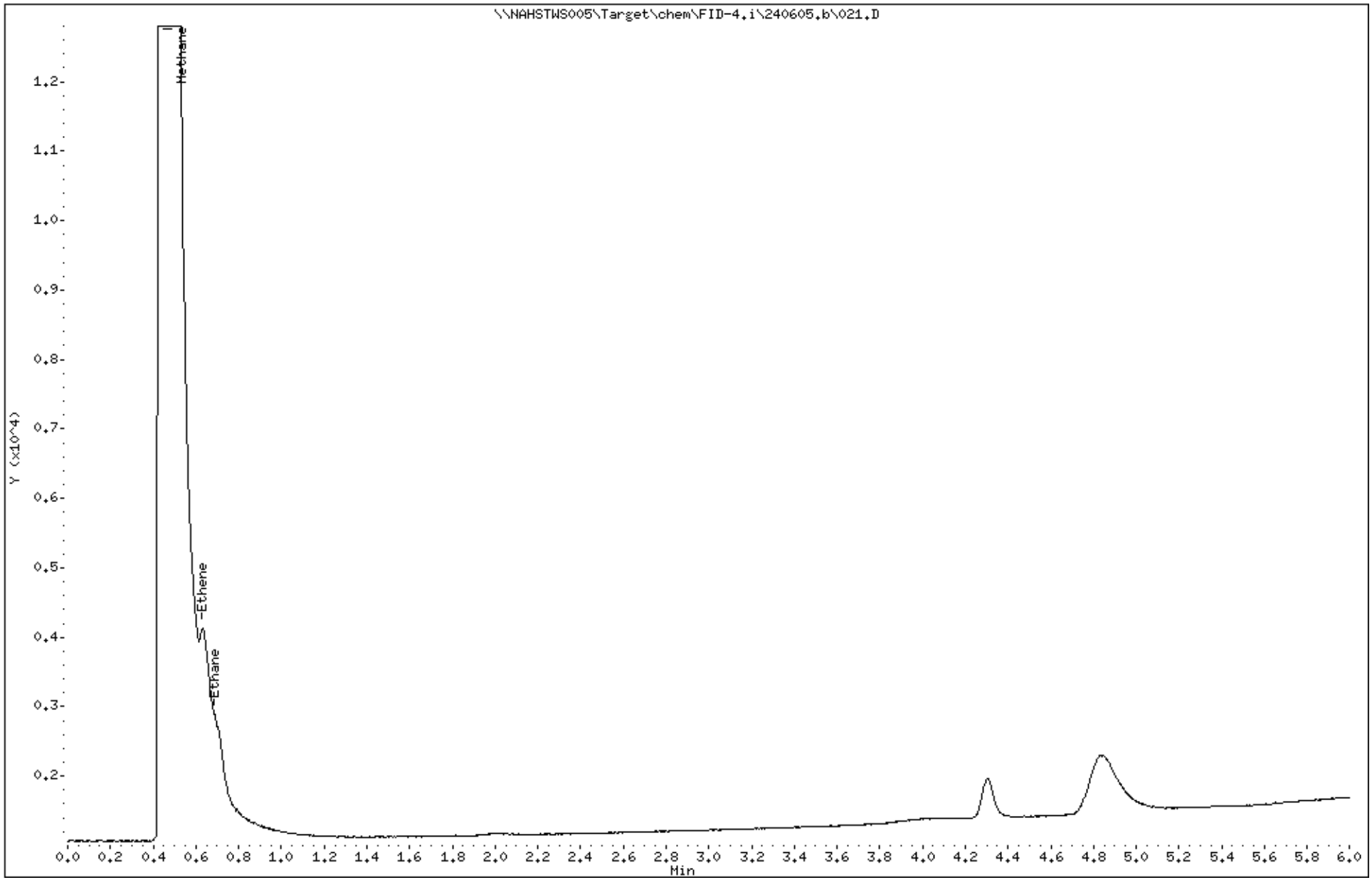
Instrument: FID-4.i

Sample Info: HS24051535-02;HS24051535-02

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53



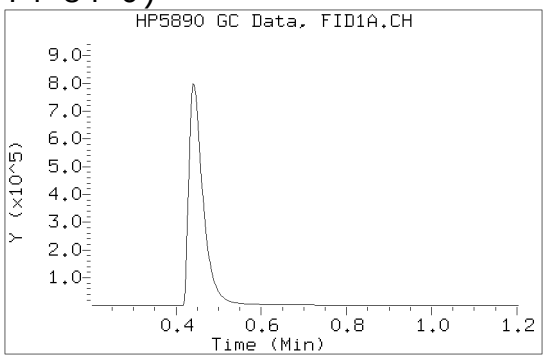
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Inj Date : 05-JUN-2024 15:01
InstruID : FID-4.i
LabSampID : HS24051535-02

Ethane (74-84-0)

Reason Code:

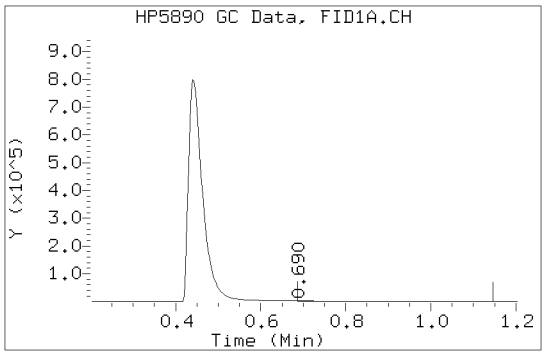
BEFORE

MASS
44
AREA
0
HEIGHT
0
05-Jun-2024
15:08
ALSHS
Server



AFTER

MASS
44
AREA
9838
HEIGHT
1819
24-Jun-2024
09:38
ALSHS
Serve

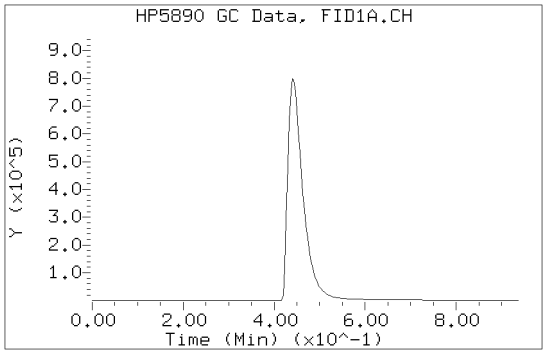


Methane (74-82-8)

Reason Code:

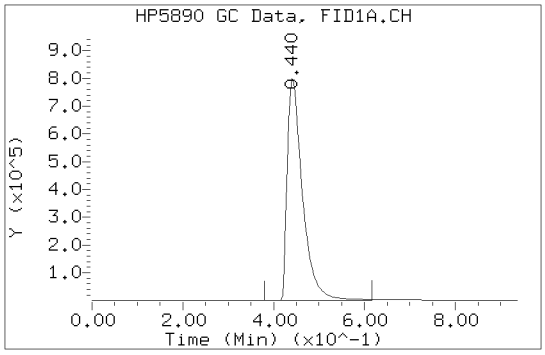
BEFORE

MASS
100
AREA
9244
HEIGHT
858
05-Jun-2024
15:08
ALSHS
Server



AFTER

MASS
100
AREA
1861386
HEIGHT
797581
24-Jun-2024
09:38
ALSHS
Serve

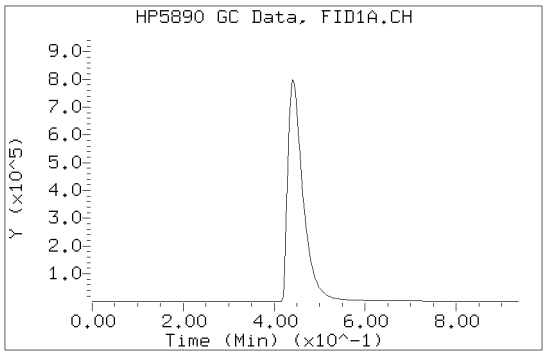


Ethene (74-85-1)

Reason Code:

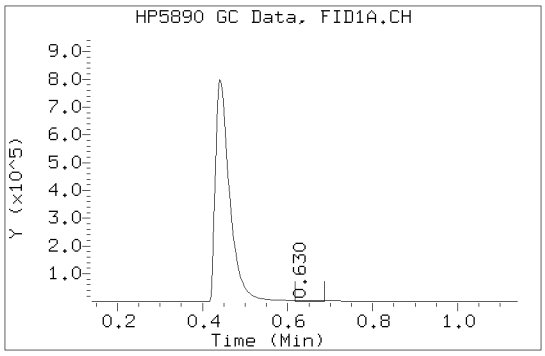
BEFORE

MASS
100
AREA
0
HEIGHT
0
05-Jun-2024
15:08
ALSHS
Server



AFTER

MASS
100
AREA
11186
HEIGHT
3056
24-Jun-2024
09:38
ALSHS
Serve



Data File: \\NAHSTWS005\Target\chem\FID-4.i\240605.b\022.D Page 1
Report Date: 24-Jun-2024 09:38

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\240605.b\022.D
Lab Smp Id: HS24051535-03 Client Smp ID: HS24051535-03
Inj Date : 05-JUN-2024 15:10
Operator : PL Inst ID: FID-4.i
Smp Info : HS24051535-03;HS24051535-03
Misc Info : ;1;0;1
Comment :
Method : \\nahstws005\Target\chem\FID-4.i\240605.b\RSKNI3.m
Meth Date : 24-Jun-2024 09:36 r.patel Quant Type: ESTD
Cal Date : 05-JUN-2024 17:57 Cal File: 039.D
Als bottle: 22
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Methane	0.436	0.436	0.000	562271	414.193	414.193(AM)
2 Ethene	0.630	0.640	-0.010	4980	5.94981	5.949(M)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\FID-4.i\240605.b\022.D

Date : 05-JUN-2024 15:10

Client ID: HS24051535-03

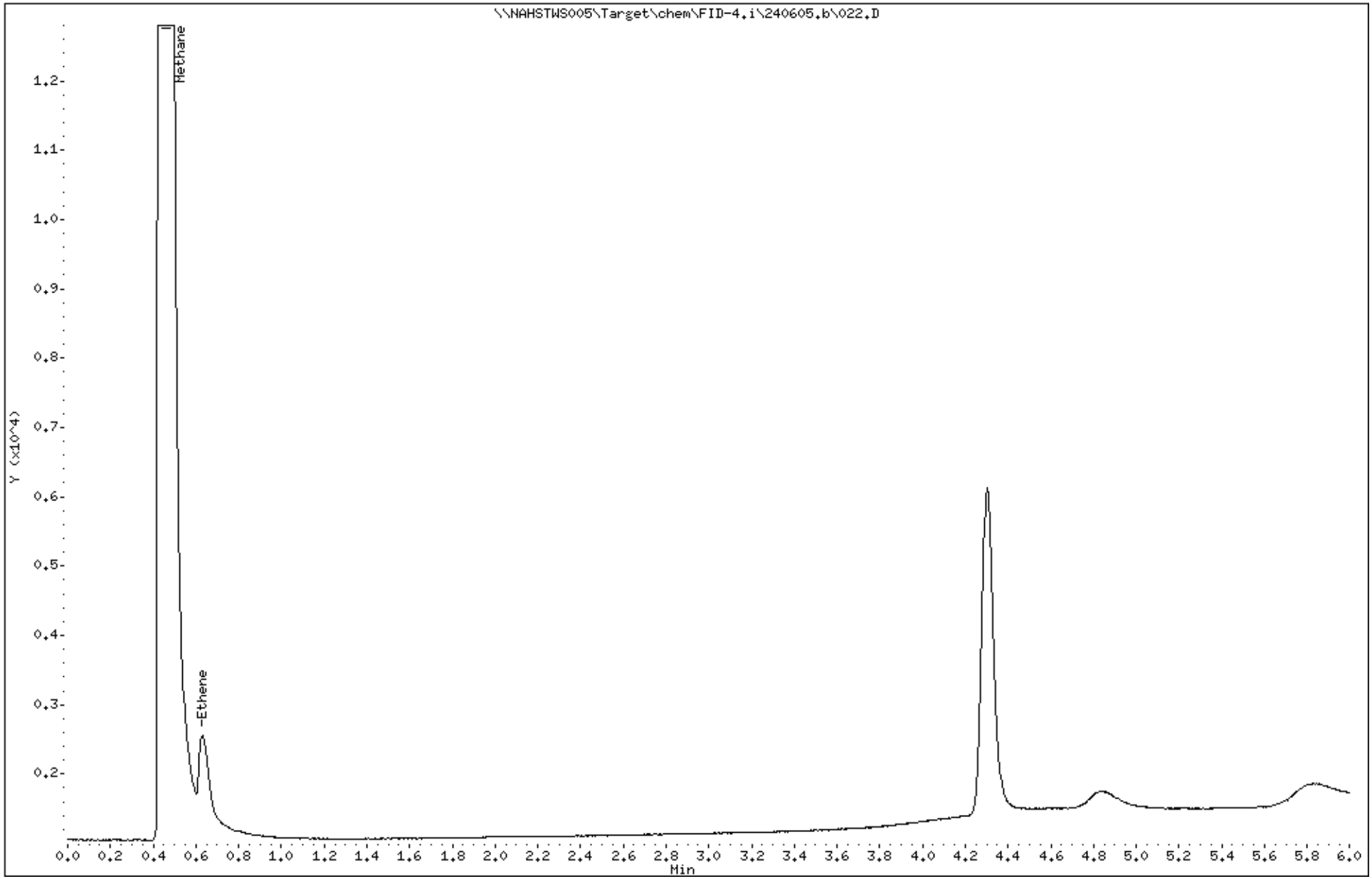
Instrument: FID-4.i

Sample Info: HS24051535-03;HS24051535-03

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53

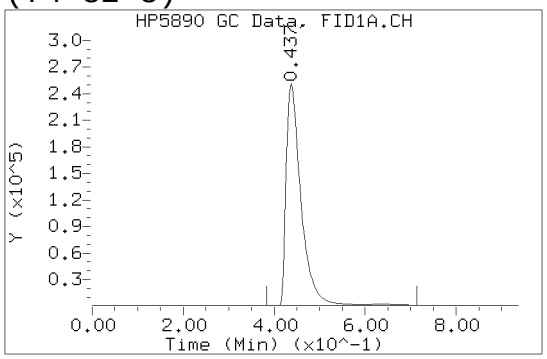


Data File : \\NAHSTWS005\Target\chem\FID-4.i\240605.b\022.D
Inj Date : 05-JUN-2024 15:10
InstruID : FID-4.i
LabSampID : HS24051535-03

Methane (74-82-8)

BEFORE

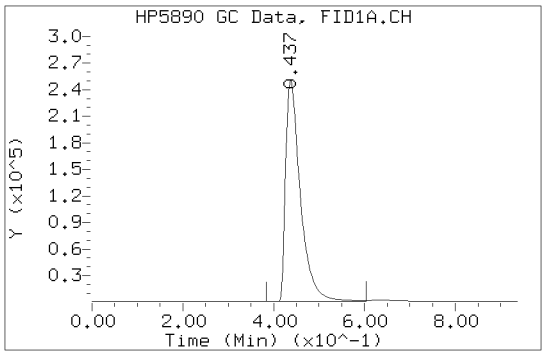
MASS
100
AREA
3822
HEIGHT
313
05-Jun-2024
15:17
ALSHS
Server



AFTER

MASS
100
AREA
562271
HEIGHT
250219
24-Jun-2024
09:38
ALSHS
Serve

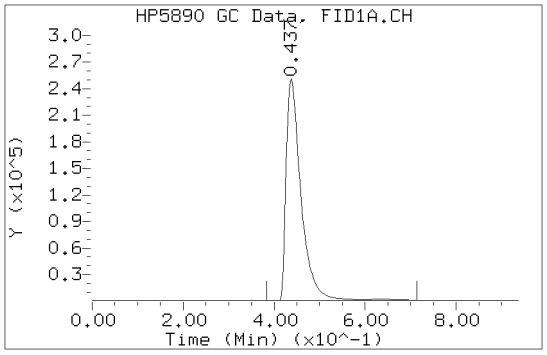
Reason Code:



Ethene (74-85-1)

BEFORE

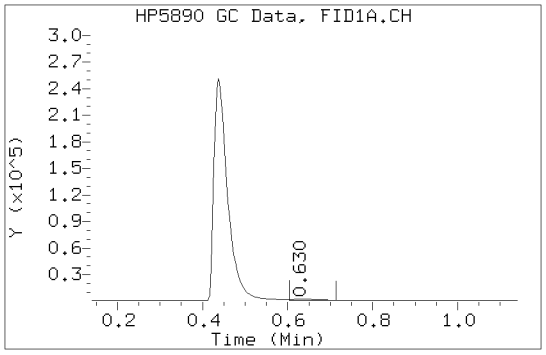
MASS
100
AREA
0
HEIGHT
0
05-Jun-2024
15:17
ALSHS
Server



AFTER

MASS
100
AREA
4980
HEIGHT
1417
24-Jun-2024
09:38
ALSHS
Serve

Reason Code:



Data File: \\NAHSTWS005\Target\chem\FID-4.i\240605.b\023.D Page 1
Report Date: 05-Jun-2024 15:46

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\240605.b\023.D
Lab Smp Id: HS24051535-04 Client Smp ID: HS24051535-04
Inj Date : 05-JUN-2024 15:18
Operator : PL Inst ID: FID-4.i
Smp Info : HS24051535-04;HS24051535-04
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\240605.b\RSKNI3.m
Meth Date : 05-Jun-2024 14:03 elona.hasa Quant Type: ESTD
Cal Date : 01-MAR-2024 11:04 Cal File: 008.D
Als bottle: 23
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7025

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	0.436	0.440	-0.004	1825440	1622.52	1622.519(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\NAHSTWS005\Target\chem\FID-4.i\240605.b\023.D

Date : 05-JUN-2024 15:18

Client ID: HS24051535-04

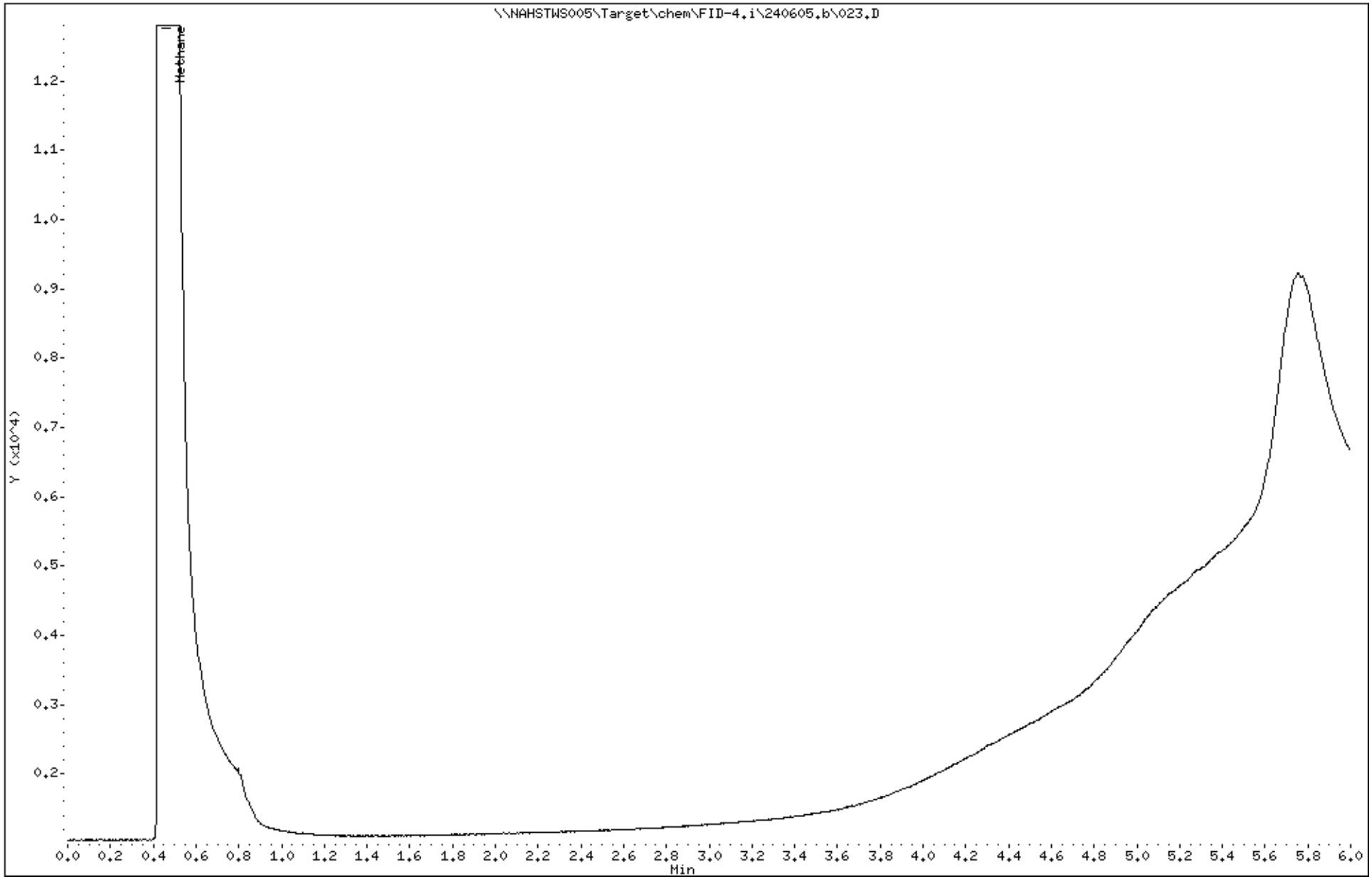
Instrument: FID-4.i

Sample Info: HS24051535-04;HS24051535-04

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53



Data File : \\NAHSTWS005\Target\chem\FID-4.i\240605.b\023.D
Inj Date : 05-JUN-2024 15:18
InstruID : FID-4.i
LabSampID : HS24051535-04

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\FID-4.i\240605.b\024.D Page 1
Report Date: 05-Jun-2024 15:46

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\240605.b\024.D
Lab Smp Id: HS24051535-05 Client Smp ID: HS24051535-05
Inj Date : 05-JUN-2024 15:27
Operator : PL Inst ID: FID-4.i
Smp Info : HS24051535-05;HS24051535-05
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\240605.b\RSKNI3.m
Meth Date : 05-Jun-2024 14:03 elona.hasa Quant Type: ESTD
Cal Date : 01-MAR-2024 11:04 Cal File: 008.D
Als bottle: 24
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7025

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	0.436	0.440	-0.004	6239360	5545.78	5545.777(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\NAHSTWS005\Target\chem\FID-4.i\240605.b\024.D

Date : 05-JUN-2024 15:27

Client ID: HS24051535-05

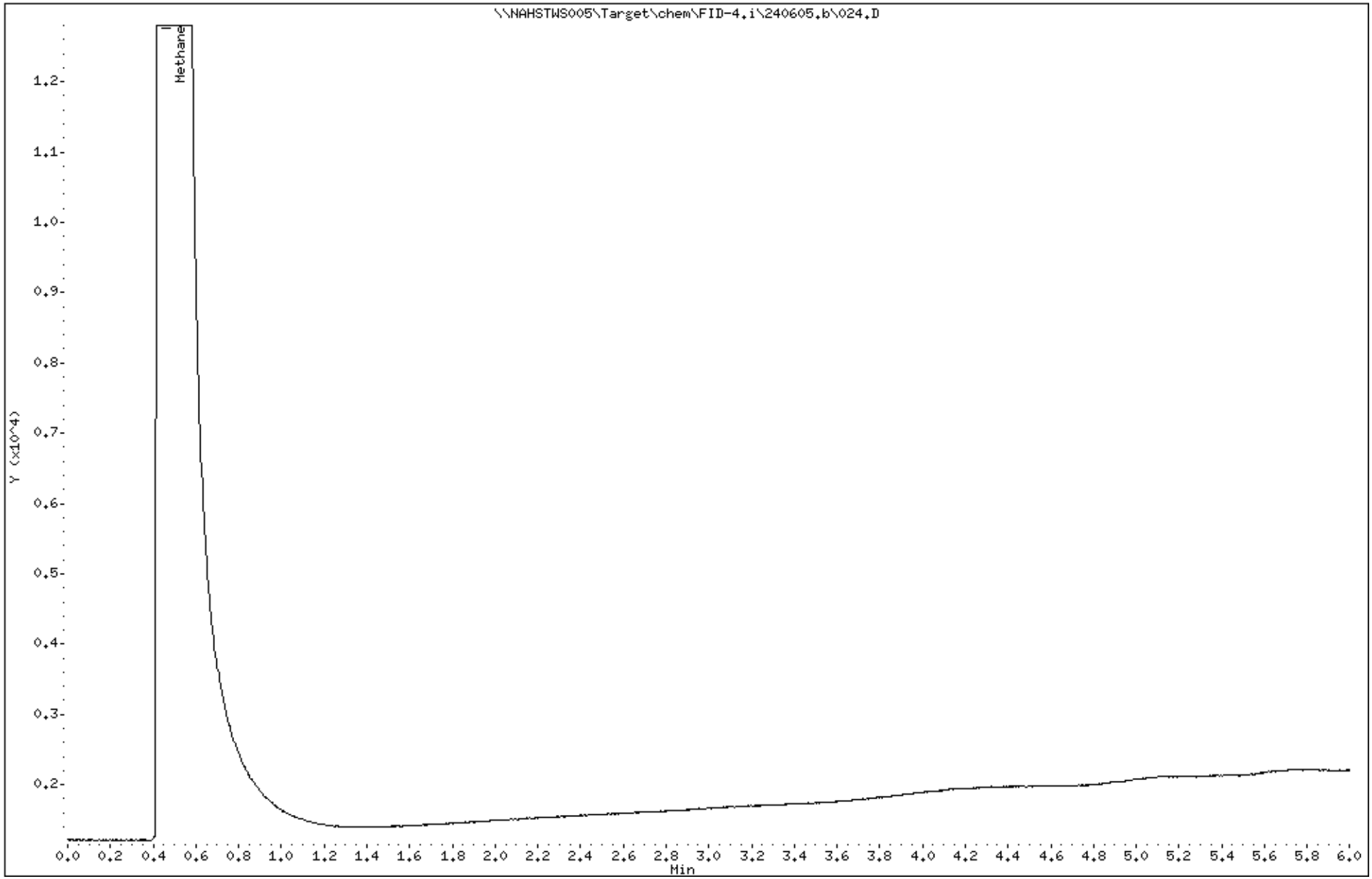
Instrument: FID-4.i

Sample Info: HS24051535-05;HS24051535-05

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53



Data File : \\NAHSTWS005\Target\chem\FID-4.i\240605.b\024.D
Inj Date : 05-JUN-2024 15:27
InstruID : FID-4.i
LabSampID : HS24051535-05

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\FID-4.i\240605.b\025.D Page 1
Report Date: 24-Jun-2024 09:38

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\240605.b\025.D
Lab Smp Id: HS24051535-06 Client Smp ID: HS24051535-06
Inj Date : 05-JUN-2024 15:35
Operator : PL Inst ID: FID-4.i
Smp Info : HS24051535-06;HS24051535-06
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\240605.b\RSKNI3.m
Meth Date : 24-Jun-2024 09:36 r.patel Quant Type: ESTD
Cal Date : 05-JUN-2024 17:57 Cal File: 039.D
Als bottle: 25
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	0.440	0.436	0.004	2127498	1567.21	1567.207(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\NAHSTWS005\Target\chem\FID-4.i\240605.b\025.D

Date : 05-JUN-2024 15:35

Client ID: HS24051535-06

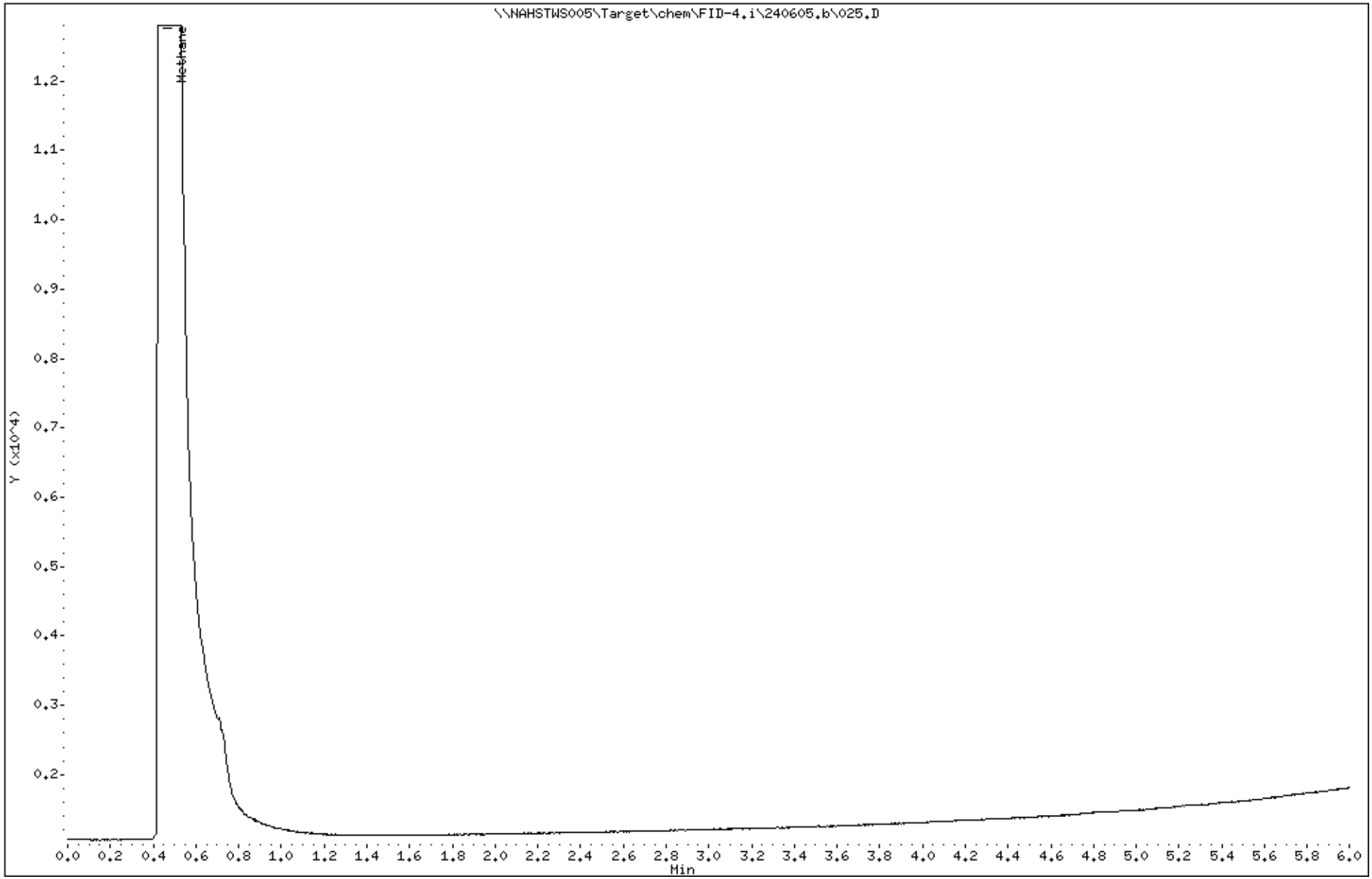
Instrument: FID-4.i

Sample Info: HS24051535-06;HS24051535-06

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53



Data File : \\NAHSTWS005\Target\chem\FID-4.i\240605.b\025.D
Inj Date : 05-JUN-2024 15:35
InstruID : FID-4.i
LabSampID : HS24051535-06

NO MANUAL INTEGRATIONS

Data File: \\nahstws005\Target\chem\FID-4.i\240605.b\026.D Page 1
Report Date: 05-Jun-2024 16:35

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\nahstws005\Target\chem\FID-4.i\240605.b\026.D
Lab Smp Id: RSK-CCV Client Smp ID: RSK-CCV
Inj Date : 05-JUN-2024 15:44
Operator : PL Inst ID: FID-4.i
Smp Info : RSK-CCV;RSK-CCV;2;4
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\FID-4.i\240605.b\RSKNI3.m
Meth Date : 05-Jun-2024 15:53 elona.hasa Quant Type: ESTD
Cal Date : 01-MAR-2024 11:04 Cal File: 008.D
Als bottle: 26 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7025

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	0.436	0.440	-0.004	9627	9.64700	8.556
2 Ethene	0.640	0.643	-0.003	10667	16.8500	14.749
3 Ethane	0.700	0.706	-0.006	15379	18.0430	15.317

Data File: \\nahstws005\Target\chem\FID-4.i\240605.b\026.D

Page 1

Date : 05-JUN-2024 15:44

Client ID: RSK-CCV

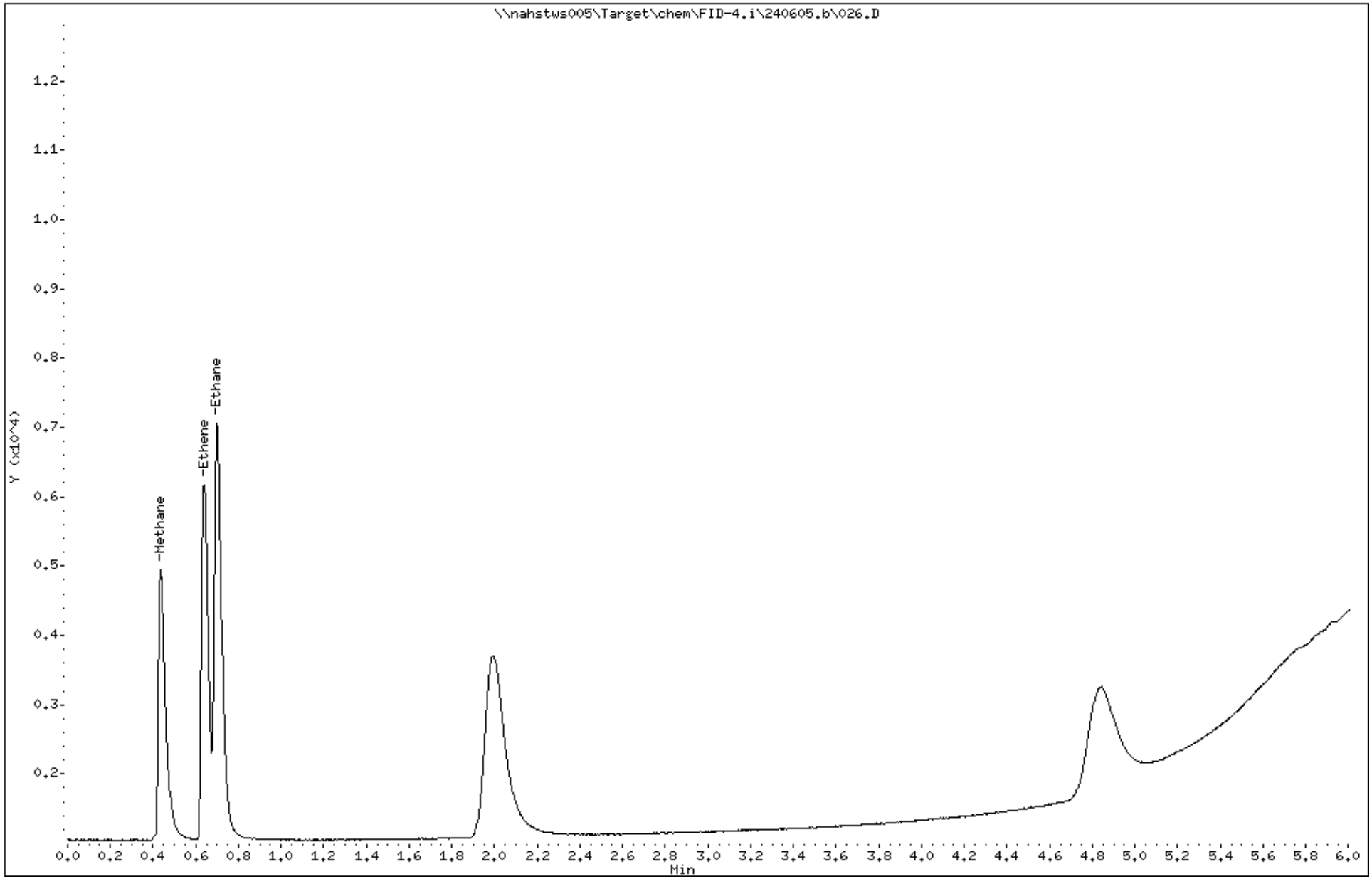
Instrument: FID-4.i

Sample Info: RSK-CCV;RSK-CCV;2;4

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53



Data File : \\nahstws005\Target\chem\FID-4.i\240605.b\026.D
Inj Date : 05-JUN-2024 15:44
InstruID : FID-4.i
LabSampID : RSK-CCV

NO MANUAL INTEGRATIONS

Data File: \\nahstws005\Target\chem\FID-4.i\240605.b\027.D Page 1
Report Date: 05-Jun-2024 16:44

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\nahstws005\Target\chem\FID-4.i\240605.b\027.D
Lab Smp Id: HS24051535-02 Client Smp ID: HS24051535-02
Inj Date : 05-JUN-2024 15:55
Operator : PL Inst ID: FID-4.i
Smp Info : HS24051535-02;HS24051535-02
Misc Info : ;1;0;50
Comment :
Method : \\nahstws005\Target\chem\FID-4.i\240605.b\RSKNI3.m
Meth Date : 05-Jun-2024 15:53 elona.hasa Quant Type: ESTD
Cal Date : 01-MAR-2024 11:04 Cal File: 008.D
Als bottle: 27
Dil Factor: 50.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7021

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	0.443	0.440	0.003	33498	29.7743	1488.713(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\nahstws005\Target\chem\FID-4.i\240605.b\027.D

Date : 05-JUN-2024 15:55

Client ID: HS24051535-02

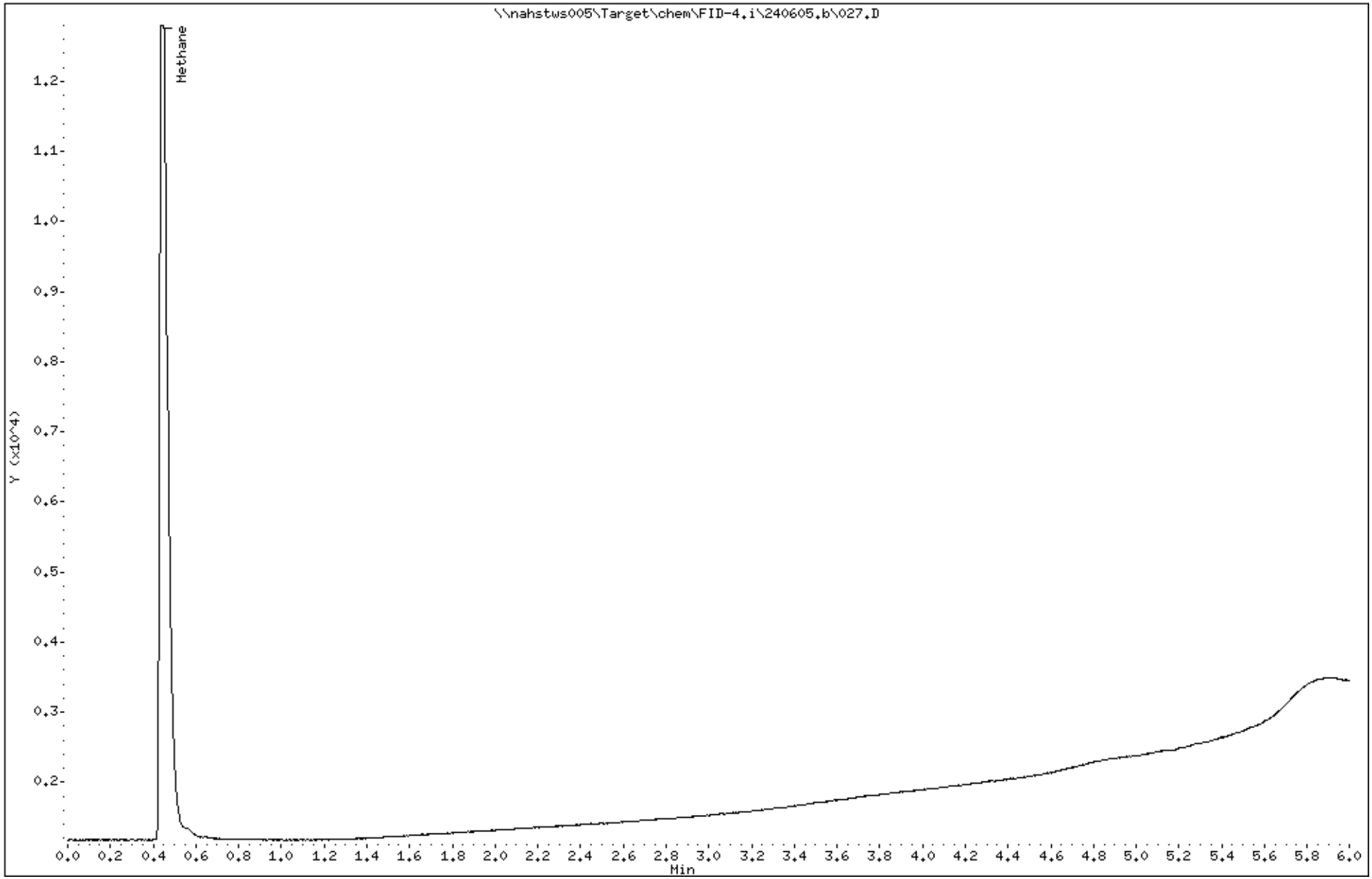
Instrument: FID-4.i

Sample Info: HS24051535-02;HS24051535-02

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53



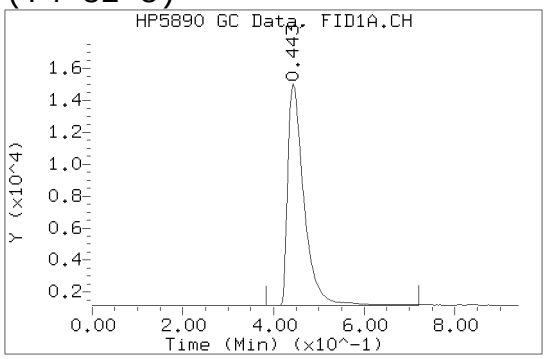
Data File : \\nahstws005\Target\chem\FID-4.i\240605.b\027.D
Inj Date : 05-JUN-2024 15:55
InstruID : FID-4.i
LabSampID : HS24051535-02

Methane (74-82-8)

Reason Code: MUP

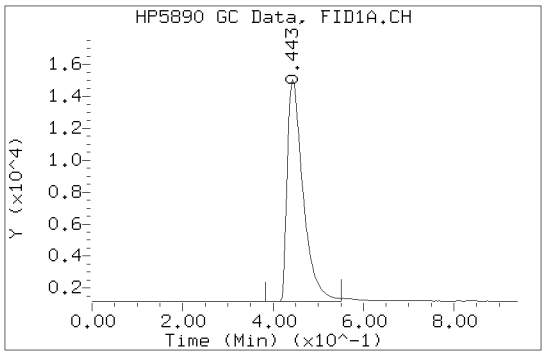
BEFORE

MASS
100
AREA
0
HEIGHT
0
05-Jun-2024
16:06
ALSHS
Server



AFTER

MASS
100
AREA
33498
HEIGHT
13866
05-Jun-2024
16:44
ALSHS
Server



Data File: \\nahstws005\Target\chem\FID-4.i\240605.b\028.D Page 1
Report Date: 05-Jun-2024 16:53

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\nahstws005\Target\chem\FID-4.i\240605.b\028.D
Lab Smp Id: HS24051535-03 Client Smp ID: HS24051535-03
Inj Date : 05-JUN-2024 16:04
Operator : PL Inst ID: FID-4.i
Smp Info : HS24051535-03;HS24051535-03
Misc Info : ;1;0;20
Comment :
Method : \\nahstws005\Target\chem\FID-4.i\240605.b\RSKNI3.m
Meth Date : 05-Jun-2024 15:53 elona.hasa Quant Type: ESTD
Cal Date : 01-MAR-2024 11:04 Cal File: 008.D
Als bottle: 28
Dil Factor: 20.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7021

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Methane	0.440	0.440	0.000	26587	23.6315	472.630(M)
2 Ethene	0.640	0.643	-0.003	287	0.39683	7.936(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\nahstws005\Target\chem\FID-4.i\240605.b\028.D

Page 1

Date : 05-JUN-2024 16:04

Client ID: HS24051535-03

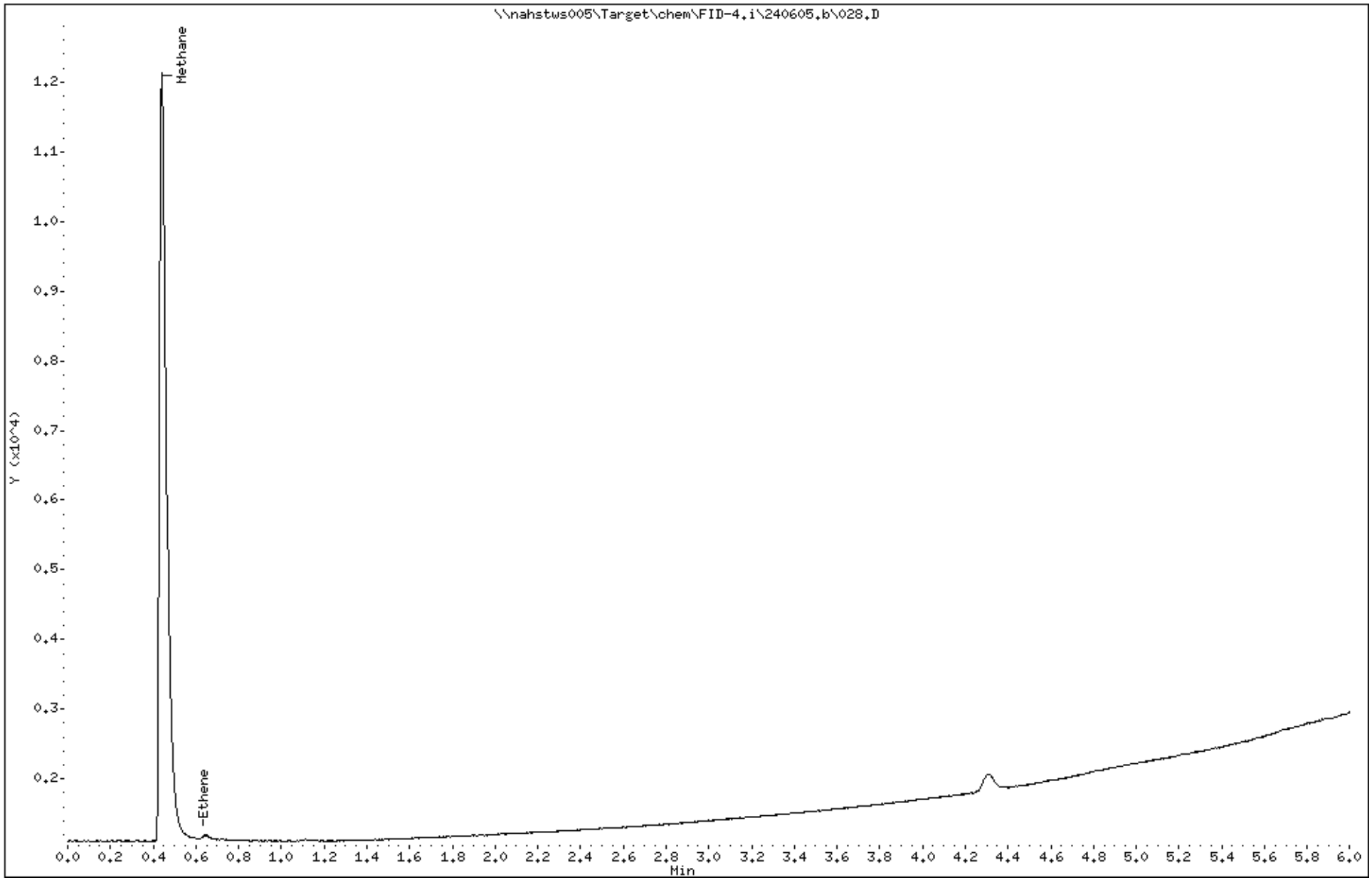
Instrument: FID-4.i

Sample Info: HS24051535-03;HS24051535-03

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53



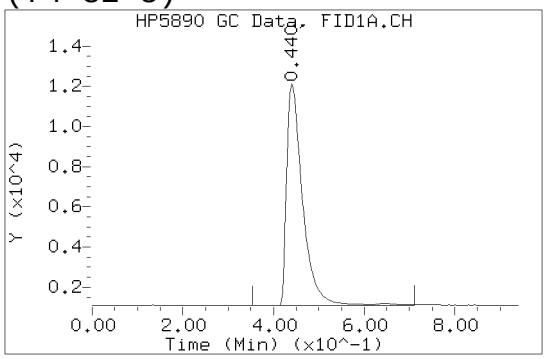
Data File : \\nahstws005\Target\chem\FID-4.i\240605.b\028.D
Inj Date : 05-JUN-2024 16:04
InstruID : FID-4.i
LabSampID : HS24051535-03

Methane (74-82-8)

Reason Code: MUP

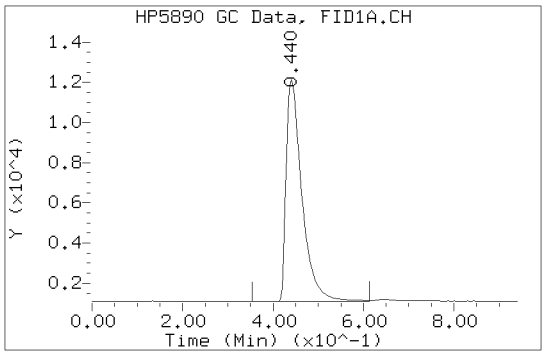
BEFORE

MASS
100
AREA
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HEIGHT
0
05-Jun-2024
16:11
ALSHS
Server



AFTER

MASS
100
AREA
26587
HEIGHT
11027
05-Jun-2024
16:53
ALSHS
Server

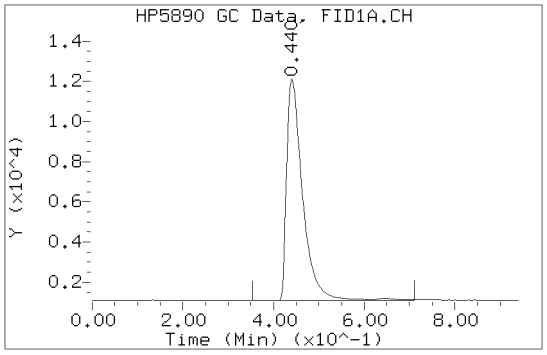


Ethene (74-85-1)

Reason Code: MUP

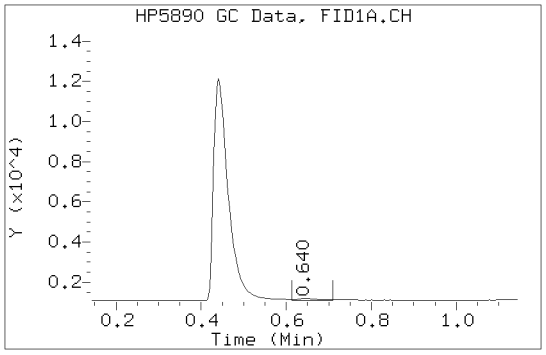
BEFORE

MASS
100
AREA
0
HEIGHT
0
05-Jun-2024
16:11
ALSHS
Server



AFTER

MASS
100
AREA
287
HEIGHT
91
05-Jun-2024
16:53
ALSHS
Server



Data File: \\nahstws005\Target\chem\FID-4.i\240605.b\029.D Page 1
Report Date: 05-Jun-2024 16:38

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\nahstws005\Target\chem\FID-4.i\240605.b\029.D
Lab Smp Id: HS24051535-04 Client Smp ID: HS24051535-04
Inj Date : 05-JUN-2024 16:16
Operator : PL Inst ID: FID-4.i
Smp Info : HS24051535-04;HS24051535-04
Misc Info : ;1;0;50
Comment :
Method : \\nahstws005\Target\chem\FID-4.i\240605.b\RSKNI3.m
Meth Date : 05-Jun-2024 15:53 elona.hasa Quant Type: ESTD
Cal Date : 01-MAR-2024 11:04 Cal File: 008.D
Als bottle: 29
Dil Factor: 50.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7021

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	0.446	0.440	0.006	36694	32.6150	1630.750

Data File: \\nahstws005\Target\chem\FID-4.i\240605.b\029.D

Date : 05-JUN-2024 16:16

Client ID: HS24051535-04

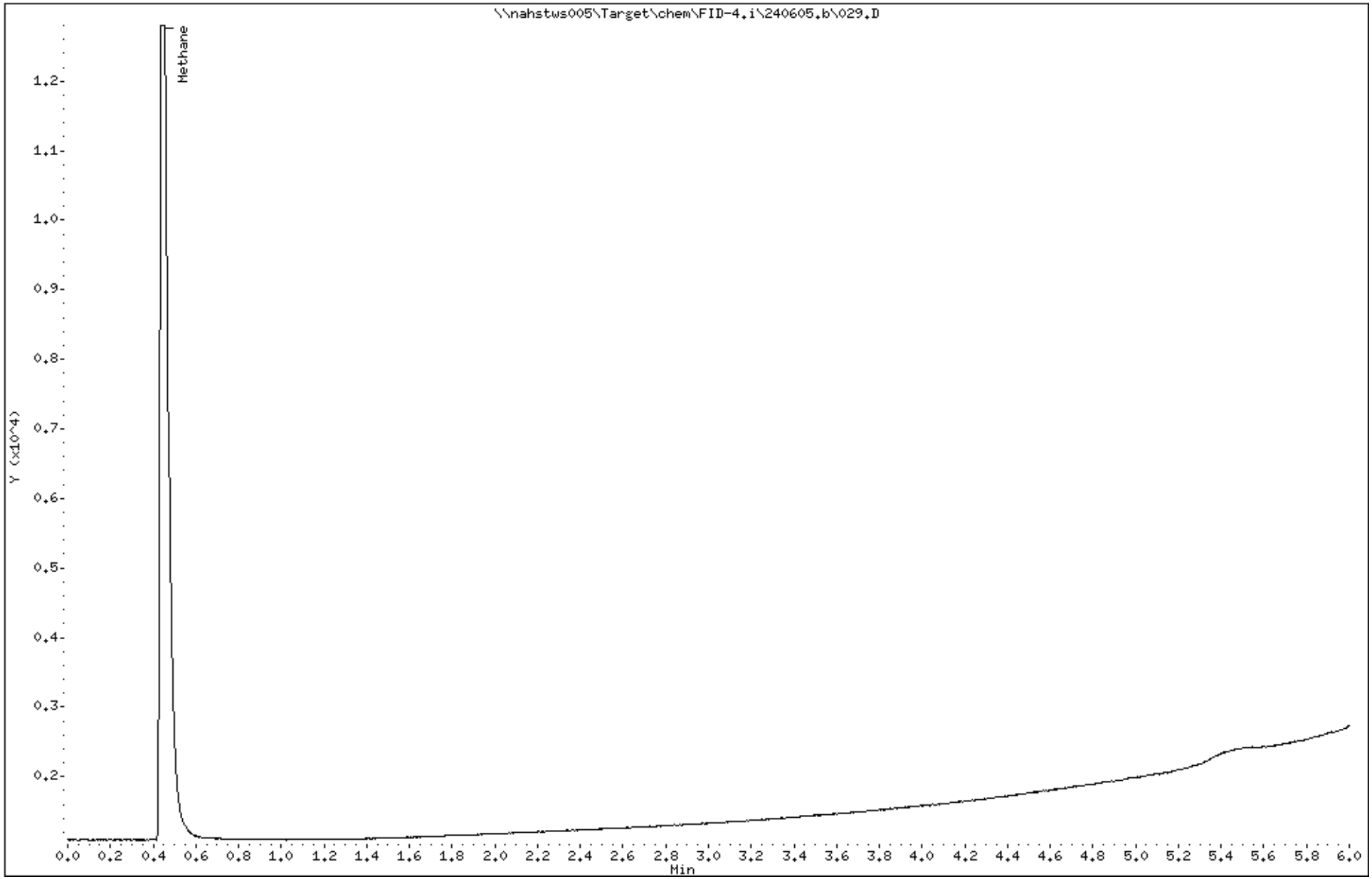
Instrument: FID-4.i

Sample Info: HS24051535-04;HS24051535-04

Operator: PL

Column phase: Rtx-PLOT

Column diameter: 0.53



Data File : \\nahstws005\Target\chem\FID-4.i\240605.b\029.D
Inj Date : 05-JUN-2024 16:16
InstruID : FID-4.i
LabSampID : HS24051535-04

NO MANUAL INTEGRATIONS

Data File: \\nahstws005\Target\chem\FID-4.i\240605.b\030.D Page 1
Report Date: 05-Jun-2024 17:14

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\nahstws005\Target\chem\FID-4.i\240605.b\030.D
Lab Smp Id: HS24051535-05 Client Smp ID: HS24051535-05
Inj Date : 05-JUN-2024 16:27
Operator : RG Inst ID: FID-4.i
Smp Info : HS24051535-05;HS24051535-05
Misc Info : ;1;0;200
Comment :
Method : \\nahstws005\Target\chem\FID-4.i\240605.b\RSKNI3.m
Meth Date : 05-Jun-2024 15:53 elona.hasa Quant Type: ESTD
Cal Date : 01-MAR-2024 11:04 Cal File: 008.D
Als bottle: 30
Dil Factor: 200.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7021

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	0.446	0.440	0.006	23356	20.7597	4151.937

Data File: \\nahstws005\Target\chem\FID-4.i\240605.b\030.D

Date : 05-JUN-2024 16:27

Client ID: HS24051535-05

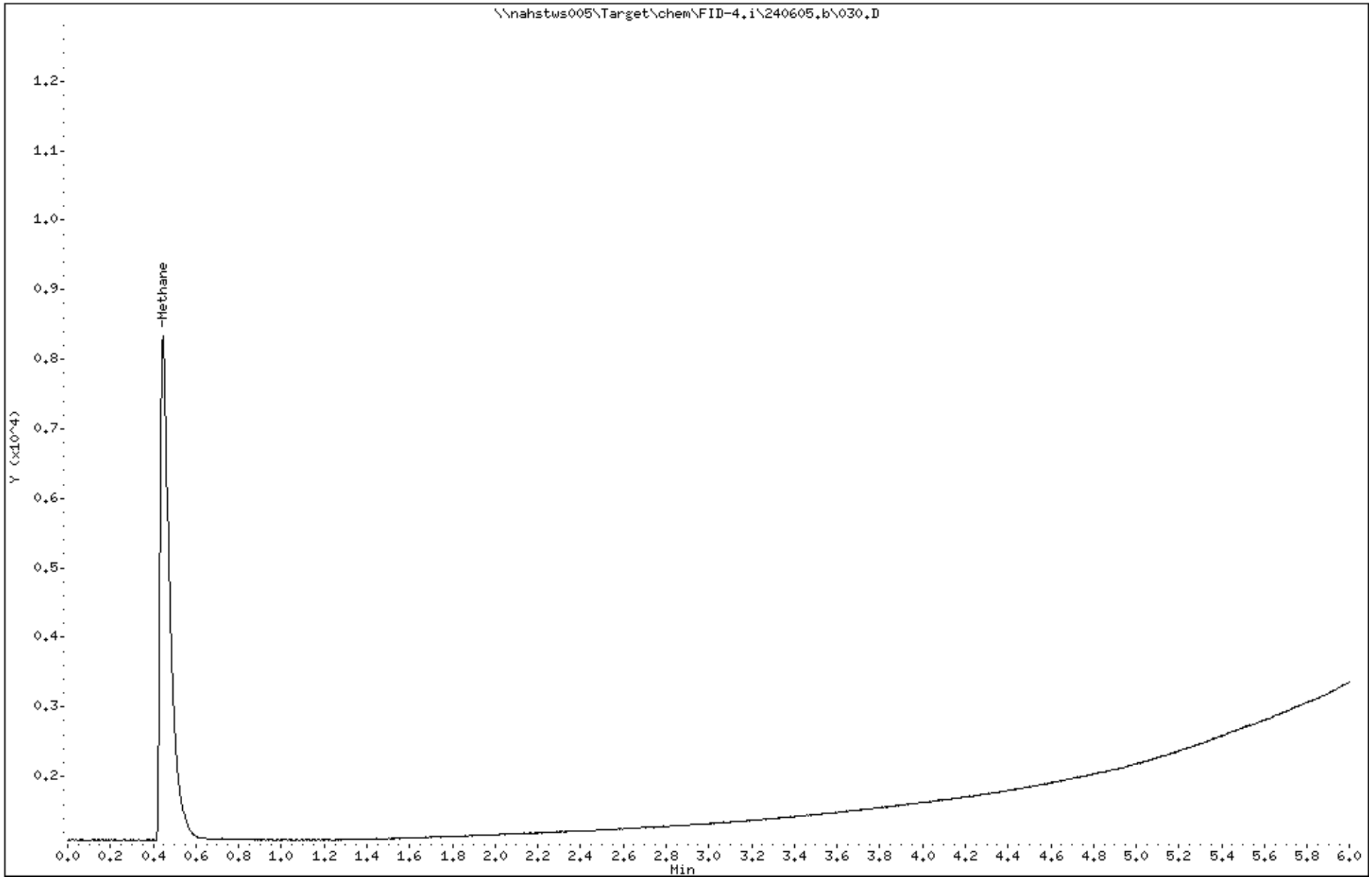
Instrument: FID-4.i

Sample Info: HS24051535-05;HS24051535-05

Operator: RG

Column phase: Rtx-PLOT

Column diameter: 0.53



Data File : \\nahstws005\Target\chem\FID-4.i\240605.b\030.D
Inj Date : 05-JUN-2024 16:27
InstruID : FID-4.i
LabSampID : HS24051535-05

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\FID-4.i\240605.b\031.D Page 1
Report Date: 24-Jun-2024 09:38

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\NAHSTWS005\Target\chem\FID-4.i\240605.b\031.D
Lab Smp Id: HS24051535-06 Client Smp ID: HS24051535-06
Inj Date : 05-JUN-2024 16:36
Operator : RG Inst ID: FID-4.i
Smp Info : HS24051535-06;HS24051535-06
Misc Info : ;1;0;50
Comment :
Method : \\nahstws005\Target\chem\FID-4.i\240605.b\RSKNI3.m
Meth Date : 24-Jun-2024 09:36 r.patel Quant Type: ESTD
Cal Date : 05-JUN-2024 17:57 Cal File: 039.D
Als bottle: 31
Dil Factor: 50.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Methane	0.443	0.436	0.007	41188	30.3409	1517.043

Data File: \\NAHSTWS005\Target\chem\FID-4.i\240605.b\031.D

Date : 05-JUN-2024 16:36

Client ID: HS24051535-06

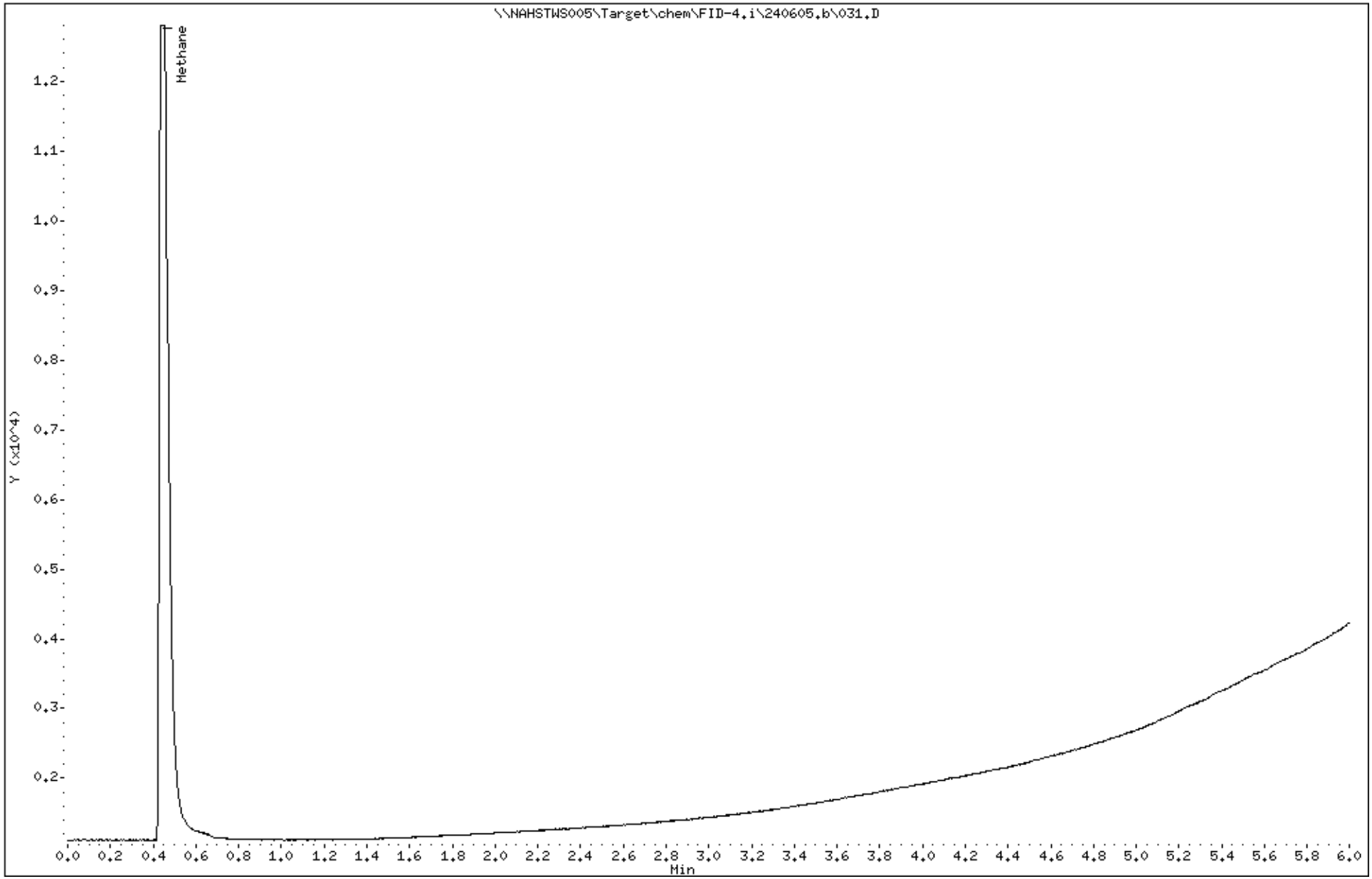
Instrument: FID-4.i

Sample Info: HS24051535-06;HS24051535-06

Operator: RG

Column phase: Rtx-PLOT

Column diameter: 0.53



Data File : \\NAHSTWS005\Target\chem\FID-4.i\240605.b\031.D
Inj Date : 05-JUN-2024 16:36
InstruID : FID-4.i
LabSampID : HS24051535-06

NO MANUAL INTEGRATIONS

Data File: \\nahstws005\Target\chem\FID-4.i\240605.b\037.D Page 1
Report Date: 05-Jun-2024 17:51

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\nahstws005\Target\chem\FID-4.i\240605.b\037.D
Lab Smp Id: RSK-CCV Client Smp ID: RSK-CCV
Inj Date : 05-JUN-2024 17:41
Operator : RG Inst ID: FID-4.i
Smp Info : RSK-CCV;RSK-CCV;2;4
Misc Info : ;1;0;1
Comment :
Method : \\nahstws005\Target\chem\FID-4.i\240605.b\RSKNI3.m
Meth Date : 05-Jun-2024 17:50 ryan.guthr Quant Type: ESTD
Cal Date : 01-MAR-2024 11:04 Cal File: 008.D
Als bottle: 37 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175.sub
Target Version: 4.14
Processing Host: NAHSTW7021

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	0.436	0.436	0.000	9958	9.64700	8.851
2 Ethene	0.643	0.643	0.000	11007	16.8500	15.219
3 Ethane	0.706	0.706	0.000	15323	18.0430	15.261

Data File: \\nahstws005\Target\chem\FID-4.i\240605.b\037.D

Date : 05-JUN-2024 17:41

Client ID: RSK-CCV

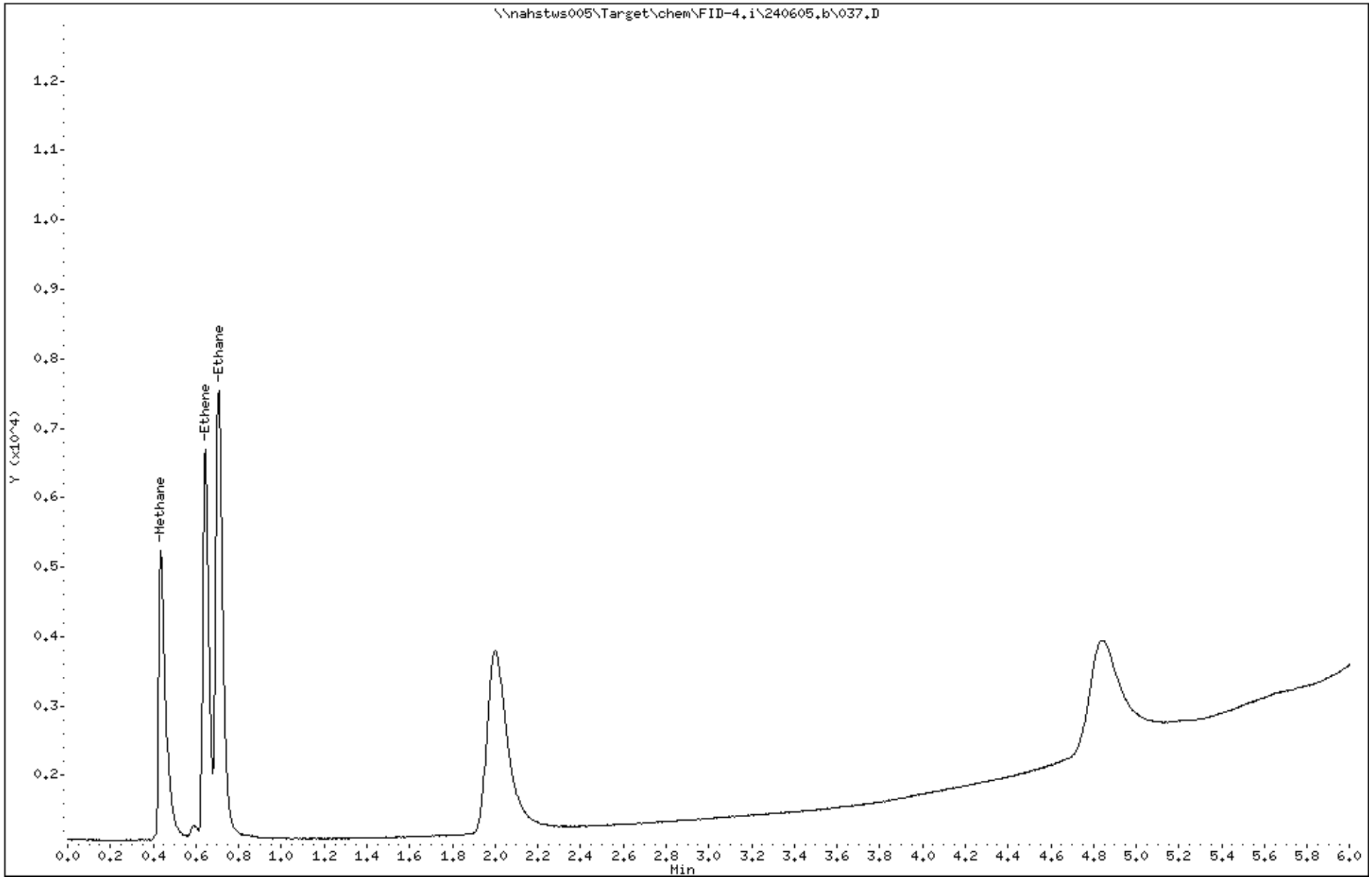
Instrument: FID-4.i

Sample Info: RSK-CCV;RSK-CCV;2;4

Operator: RG

Column phase: Rtx-PLOT

Column diameter: 0.53



Data File : \\nahstws005\Target\chem\FID-4.i\240605.b\037.D
Inj Date : 05-JUN-2024 17:41
InstruID : FID-4.i
LabSampID : RSK-CCV

NO MANUAL INTEGRATIONS

HS24051535 - ME - ICP_W_DOD

ALS WO# HS24051535

FORM 13 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS24051535
Start Date: 07-Jun-2024 End Date: 07-Jun-2024

Run ID:ICPMS07_468784
Instrument:ICPMS07
Method:

Sample No.	D/F	Time	FileID	Analytes
ICPMS07_468784_Tune	1	07-Jun-2024 00:00	ICPMS07_468784_Tune_1	
CAL BLK	1	07-Jun-2024 10:41	010CALB.d_8053386	AS
2/10/200	1	07-Jun-2024 10:44	011CALS.d_8053387	AS
5/25/500	1	07-Jun-2024 10:47	012CALS.d_8053388	AS
10/50/100	1	07-Jun-2024 10:50	013CALS.d_8053389	AS
100/500/10K	1	07-Jun-2024 10:52	014CALS.d_8053390	AS
200/1000/20K	1	07-Jun-2024 10:55	015CALS.d_8053391	AS
ICV	1	07-Jun-2024 11:02	017_ICV.d_8053393	AS
LLICV2	1	07-Jun-2024 11:07	019LCV2.d_8053395	AS
LLICV5	1	07-Jun-2024 11:09	020LCV5.d_8053396	AS
ICB	1	07-Jun-2024 11:14	022_ICB.d_8053398	AS
ICSA	1	07-Jun-2024 11:19	024ICSA.d_8053454	AS
ICSAB	1	07-Jun-2024 11:21	025ICSB.d_8053455	AS
CCV 1	1	07-Jun-2024 11:36	030_CCV.d_8053603	AS
CCB 1	1	07-Jun-2024 11:38	031_CCB.d_8053604	AS
MBLK-213120	1	07-Jun-2024 11:41	032SMPL.d_8053605	AS
LCS-213120	1	07-Jun-2024 11:43	033SMPL.d_8053606	AS
ZZZZZZSD	5	07-Jun-2024 11:46	034SMPL.d_8053607	AS
ZZZZZZMS	1	07-Jun-2024 11:51	036SMPL.d_8053609	AS
ZZZZZZMSD	1	07-Jun-2024 11:53	037SMPL.d_8053610	AS
ZZZZZZPDS	1	07-Jun-2024 11:56	038SMPL.d_8053611	AS
35AWW20_052324	1	07-Jun-2024 11:58	039SMPL.d_8053612	AS
CCV 2	1	07-Jun-2024 12:08	042_CCV.d_8053644	AS
CCB 2	1	07-Jun-2024 12:10	043_CCB.d_8053645	AS

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS24051535

Run ID: ICPMS07_468784
Instrument: ICPMS07
Method: SW6020A

ICV	Date: 07-Jun-2024 11:02		Seq: 8053393	ICV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Arsenic	100	102.89	103	90-110	

CCV1	Date: 07-Jun-2024 11:36		Seq: 8053603	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Arsenic	100	98.274	98	90-110	

CCV2	Date: 07-Jun-2024 12:08		Seq: 8053644	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Arsenic	100	96.562	97	90-110	

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS24051535

Run ID: ICPMS07_468784
Instrument: ICPMS07
Method: SW6020A

ICB	Date: 07-Jun-2024 11:14		Seq: 8053398		ICB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**		
Arsenic	5	0.4	5	U		

CCB1	Date: 07-Jun-2024 11:38		Seq: 8053604		CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**		
Arsenic	2	0.4	2	U		

MBLK-213120	Date: 07-Jun-2024 11:41		Seq: 8053605		MBLK	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**		
Arsenic	5	0.4	5	U		

CCB2	Date: 07-Jun-2024 12:10		Seq: 8053645		CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**		
Arsenic	2	0.4	2	U		

Form 4 - ICP Interference Check Sample

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS24051535

Run ID: ICPMS07_468784
Instrument: ICPMS07
Method: SW6020A

ICSA	Date: 07-Jun-2024 11:19	Seq: 8053454	ICSA	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Arsenic		0.533	0	

ICSAB	Date: 07-Jun-2024 11:21	Seq: 8053455	ICSAB	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Arsenic	100	102.9	103	

Form 5A - Matrix Spike/Matrix Spike Duplicate Recovery

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS24051535

Date Analyzed: 07-Jun-2024 11:53
Date Extracted: 06-Jun-2024 12:30
Units: ug/L

Matrix Spike: HS24052045-03MS
Client Sample ID:

Analysis Method: SW6020A

Analyte	Sample Result	MS Result	Spike Amount	% Rec	MSD Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Arsenic	0.7780	48.28	50.00	95.0	48.61	50.00	95.7	84-116	0.683	20

Form 5B - Post Digest Sample Recovery

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS24051535

Date Analyzed: 07-Jun-2024 11:56
Date Extracted: 06-Jun-2024 12:30
Units: ug/L

Lab Sample ID: HS24052045-03PDS
Client Sample ID:

Analysis Method: SW6020A

Analyte	Sample Result	PDS Result	Spike Amount	% Rec	% Rec Limits
Arsenic	0.778	97.88	100	97	80-120

Form 7 - Laboratory Control Sample

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS24051535

Date Analyzed: 07-Jun-2024 11:43
Date Extracted: 06-Jun-2024 12:30
Units: ug/L

Lab Sample ID: LCS-213120 Analysis Method: SW6020A

Analyte	Spike Amount	LCS Result	% Rec	% Rec Limits
Arsenic	50	48.41	97	84-116

Form 8 - ICP Serial Dilutions

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS24051535

Date Analyzed: 07-Jun-2024 11:46
Date Extracted: 06-Jun-2024 12:30
Units: ug/L

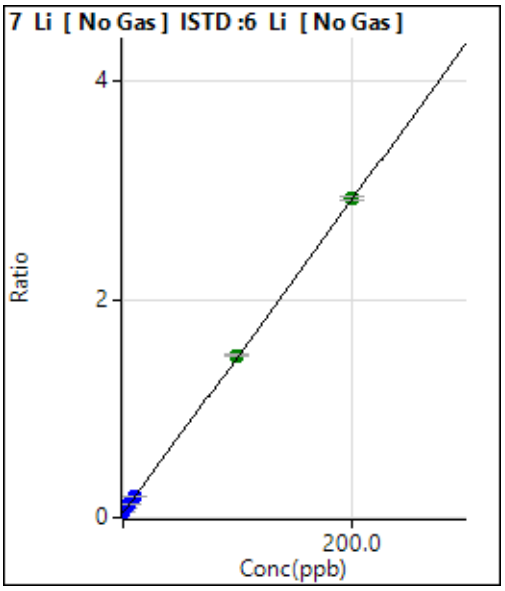
Lab Sample ID: HS24052045-03SD
Client Sample ID:

Analysis Method: SW6020A

Analyte	Sample Result	C	SD Result	C	RPD	Q
Arsenic	0.778	J	0	U	0	

Batch Folder: C:\Agilent\ICPMH\1\DATA\060724A.b\
Analysis File: 060724A.batch.bin
DA Date-Time: 6/7/2024 1:53:13 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

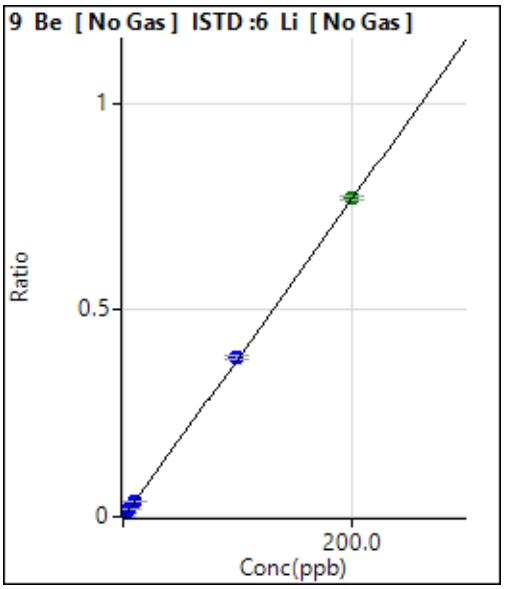
Level	Standard Data File	Sample Name	Acq. Date-Time
1	071CALB.d	CAL BLK	6/7/2024 1:34:15 PM
2	072CALS.d	2/10/200	6/7/2024 1:36:45 PM
3	073CALS.d	5/25/500	6/7/2024 1:39:15 PM
4	074CALS.d	10/50/100	6/7/2024 1:41:44 PM
5	075CALS.d	100/500/10K	6/7/2024 1:44:14 PM
6	076CALS.d	200/1000/20K	6/7/2024 1:46:43 PM



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	51107.97	0.0561	P	0.6	
2	☐	2.000	1.944	75193.74	0.0840	P	1.3	-2.8
3	☐	5.000	4.982	114750.85	0.1277	P	0.8	-0.4
4	☐	10.000	9.773	173211.07	0.1965	P	1.1	-2.3
5	☐	100.000	99.820	1253387.09	1.4905	A	1.7	-0.2
6	☐	200.000	200.102	2339314.24	2.9315	A	1.0	0.1

y = 0.0144 * x + 0.0561
R = 1.0000
DL = 0.0741 ppb
BEC = 3.902 ppb

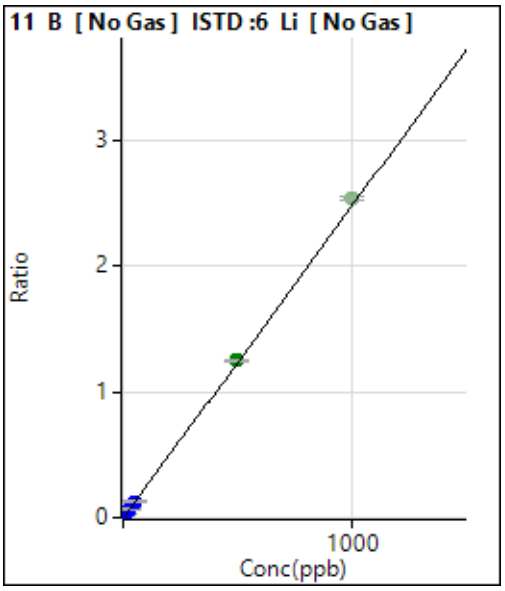
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	20.00	0.0000	P	89.9	
2	☐	2.000	1.869	6478.19	0.0072	P	5.2	-6.5
3	☐	5.000	4.740	16464.58	0.0183	P	0.9	-5.2
4	☐	10.000	9.564	32560.59	0.0369	P	2.8	-4.4
5	☐	100.000	100.088	324907.76	0.3864	P	2.0	0.1
6	☐	200.000	199.985	616033.60	0.7720	A	1.6	0.0

y = 0.0039 * x + 2.1887E-005
R = 1.0000
DL = 0.01529 ppb
BEC = 0.00567 ppb

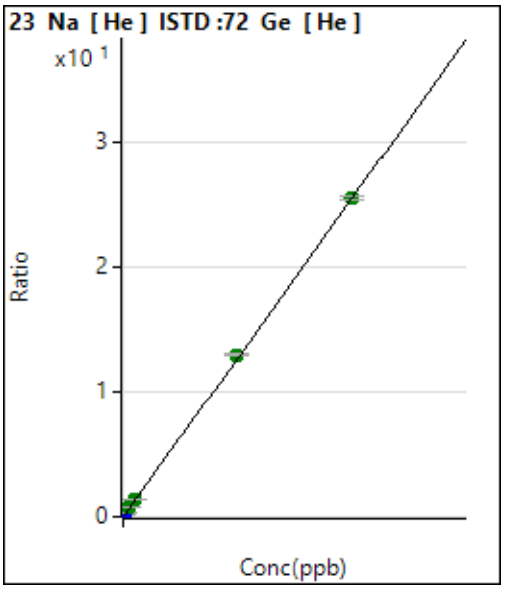
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	7973.95	0.0087	P	3.2	
2	☐	10.000	9.536	29006.20	0.0324	P	1.1	-4.6
3	☐	25.000	24.028	61457.08	0.0684	P	2.0	-3.9
4	☐	50.000	48.622	114056.70	0.1294	P	1.3	-2.8
5	☐	500.000	500.196	1051076.60	1.2499	A	1.7	0.0
6	☑	1000.000		2028493.93	2.5420	A	0.8	

y = 0.0025 * x + 0.0087
R = 1.0000
DL = 0.34 ppb
BEC = 3.525 ppb

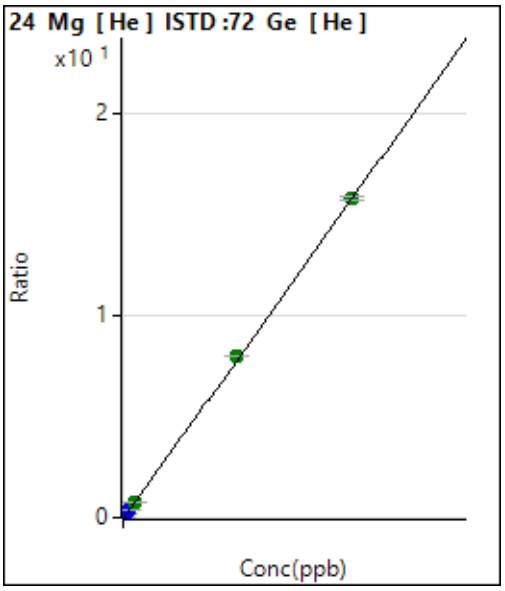
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	104413.70	0.1029	P	1.3	
2	☐	200.000	193.695	355879.86	0.3499	P	0.5	-3.2
3	☐	500.000	499.175	755027.72	0.7394	A	1.3	-0.2
4	☐	1000.000	993.482	1395844.67	1.3696	A	1.6	-0.7
5	☐	10000.00	10093.36	12894402.73	12.9717	A	0.9	0.9
6	☐	20000.00	19953.72	25004613.79	25.5433	A	1.3	-0.2

y = 0.0013 * x + 0.1029
R = 1.0000
DL = 3.19 ppb
BEC = 80.73 ppb

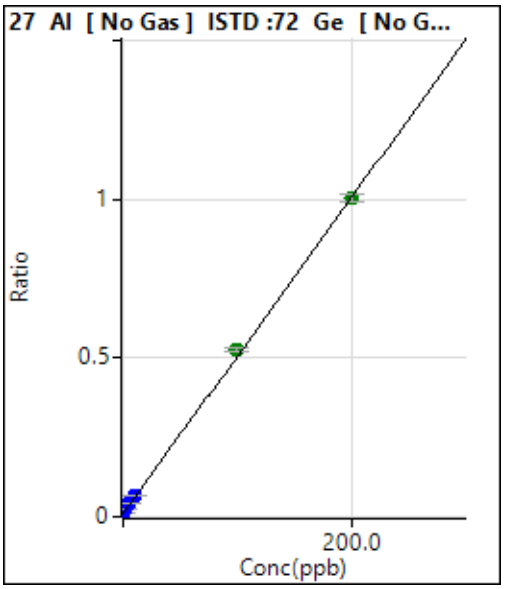
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	673.37	0.0007	P	16.5	
2	☐	200.000	197.644	160124.03	0.1574	P	1.9	-1.2
3	☐	500.000	504.370	409193.10	0.4007	P	0.6	0.9
4	☐	1000.000	995.946	805730.35	0.7906	A	1.4	-0.4
5	☐	10000.00	10099.12	7963018.22	8.0107	A	1.1	1.0
6	☐	20000.00	19950.55	15490457.69	15.8242	A	1.5	-0.2

y = 7.9314E-004 * x + 6.6327E-004
R = 1.0000
DL = 0.4138 ppb
BEC = 0.8363 ppb

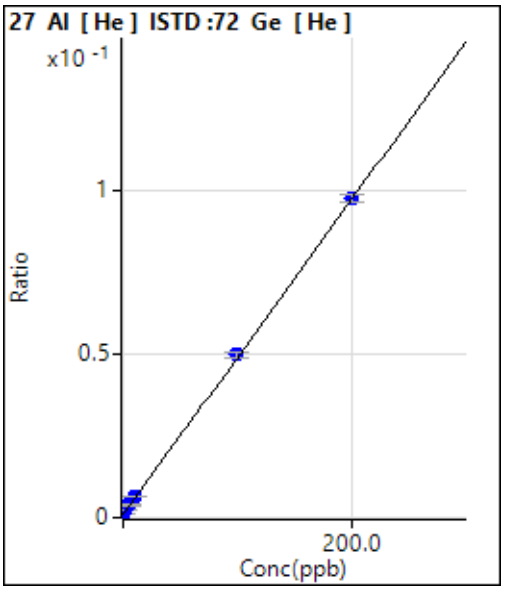
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	45990.07	0.0145	P	2.4	
2	☐	2.000	2.142	79094.70	0.0252	P	2.3	7.1
3	☐	5.000	5.233	127809.63	0.0406	P	1.8	4.7
4	☐	10.000	10.304	206453.95	0.0659	P	1.6	3.0
5	☐	100.000	102.760	1608713.05	0.5267	A	2.3	2.8
6	☐	200.000	198.597	3020983.81	1.0043	A	1.9	-0.7

y = 0.0050 * x + 0.0145
R = 0.9999
DL = 0.2077 ppb
BEC = 2.918 ppb

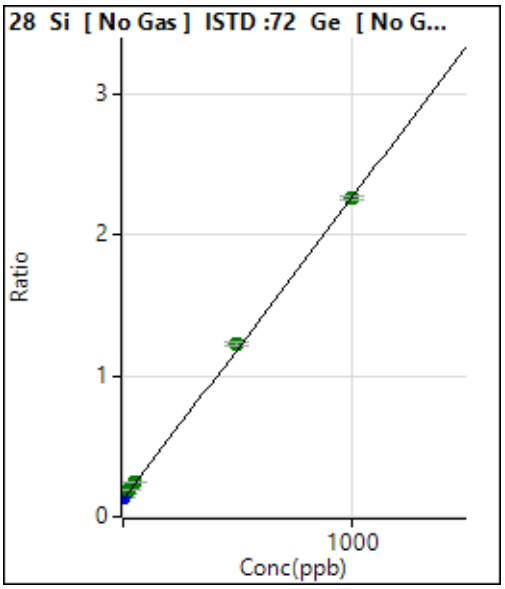
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1430.10	0.0014	P	8.0	
2	☐	2.000	2.386	2606.96	0.0026	P	5.5	19.3
3	☐	5.000	5.213	4010.65	0.0039	P	5.3	4.3
4	☐	10.000	10.173	6444.92	0.0063	P	2.9	1.7
5	☐	100.000	100.536	49661.51	0.0500	P	3.2	0.5
6	☐	200.000	199.714	95801.37	0.0979	P	2.0	-0.1

y = 4.8297E-004 * x + 0.0014
R = 1.0000
DL = 0.6982 ppb
BEC = 2.919 ppb

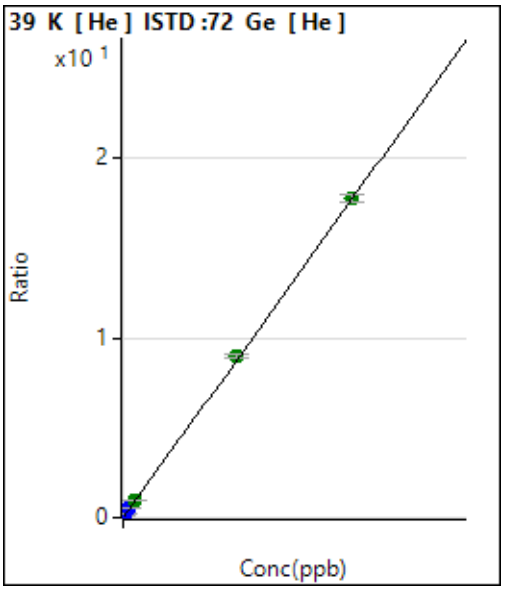
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	421723.20	0.1334	P	1.0	
2	☐	10.000	12.676	503292.60	0.1605	P	3.6	26.8
3	☐	25.000	25.367	590311.49	0.1876	A	1.0	1.5
4	☐	50.000	50.613	757046.34	0.2416	A	1.3	1.2
5	☐	500.000	511.206	3747724.94	1.2270	A	2.4	2.2
6	☐	1000.000	994.330	6799633.02	2.2605	A	1.6	-0.6

y = 0.0021 * x + 0.1334
R = 0.9999
DL = 1.873 ppb
BEC = 62.34 ppb

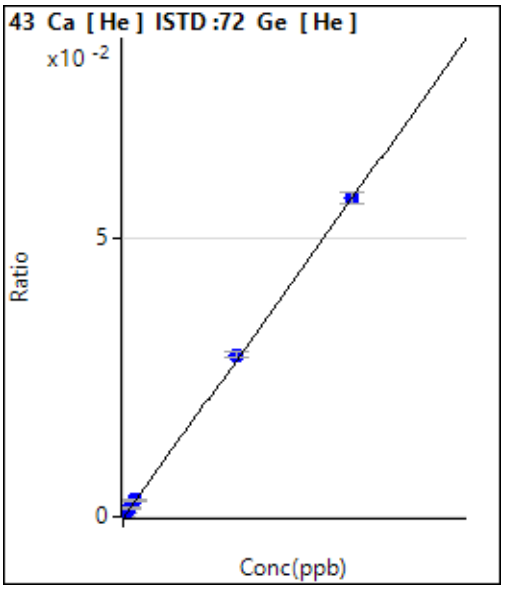
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	85320.06	0.0841	P	1.0	
2	☐	200.000	195.830	261809.42	0.2574	P	0.9	-2.1
3	☐	500.000	500.458	538122.65	0.5269	P	1.2	0.1
4	☐	1000.000	1001.166	988554.70	0.9700	A	1.0	0.1
5	☐	10000.00	10045.61	8918954.24	8.9730	A	2.1	0.5
6	☐	20000.00	19977.16	17385903.07	17.7611	A	2.1	-0.1

y = 8.8486E-004 * x + 0.0841
R = 1.0000
DL = 2.89 ppb
BEC = 95.05 ppb

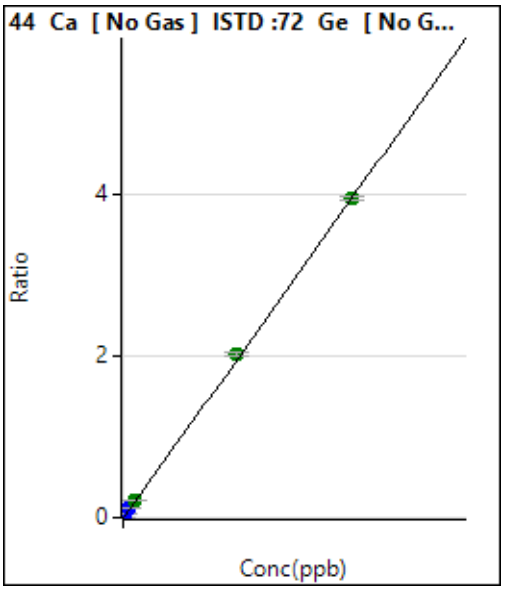
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	20.00	0.0000	P	49.3	
2	☐	200.000	197.349	596.69	0.0006	P	17.1	-1.3
3	☐	500.000	507.065	1506.77	0.0015	P	11.9	1.4
4	☐	1000.000	1046.708	3083.73	0.0030	P	7.5	4.7
5	☐	10000.00	10095.59	28826.98	0.0290	P	3.6	1.0
6	☐	20000.00	19949.71	56086.28	0.0573	P	3.5	-0.3

y = 2.8711E-006 * x + 1.9652E-005
R = 1.0000
DL = 10.12 ppb
BEC = 6.845 ppb

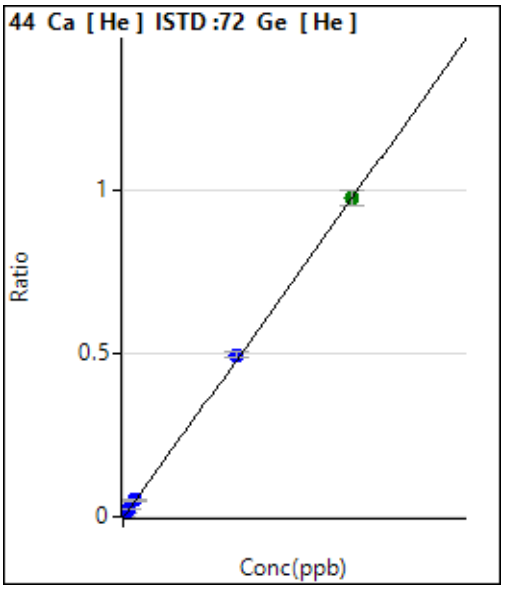
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	20675.56	0.0065	P	1.1	
2	☐	200.000	213.524	153428.40	0.0489	P	1.8	6.8
3	☐	500.000	516.094	342857.56	0.1090	P	1.5	3.2
4	☐	1000.000	1013.135	650533.28	0.2076	A	1.7	1.3
5	☐	10000.00	10180.12	6192361.58	2.0273	A	2.0	1.8
6	☐	20000.00	19908.74	11907158.99	3.9585	A	1.7	-0.5

y = 1.9850E-004 * x + 0.0065
R = 0.9999
DL = 1.055 ppb
BEC = 32.94 ppb

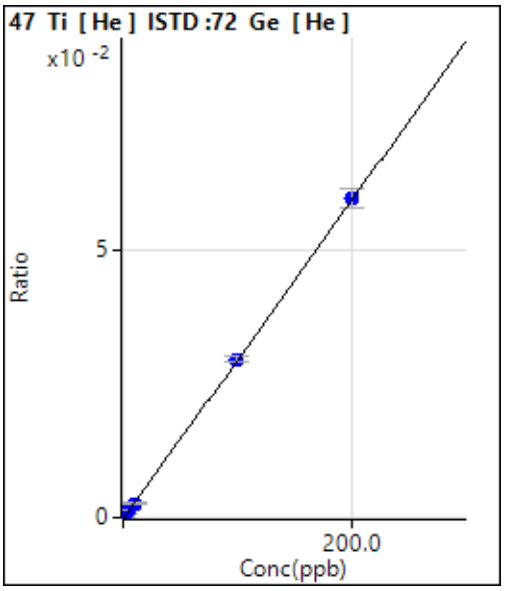
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	743.37	0.0007	P	11.2	
2	☐	200.000	198.676	10650.91	0.0105	P	4.1	-0.7
3	☐	500.000	495.008	25523.85	0.0250	P	0.8	-1.0
4	☐	1000.000	1008.592	51130.77	0.0502	P	3.2	0.9
5	☐	10000.00	10112.00	493283.34	0.4963	P	3.7	1.1
6	☐	20000.00	19943.70	957461.29	0.9782	A	4.3	-0.3

y = 4.9011E-005 * x + 7.3280E-004
R = 1.0000
DL = 5.033 ppb
BEC = 14.95 ppb

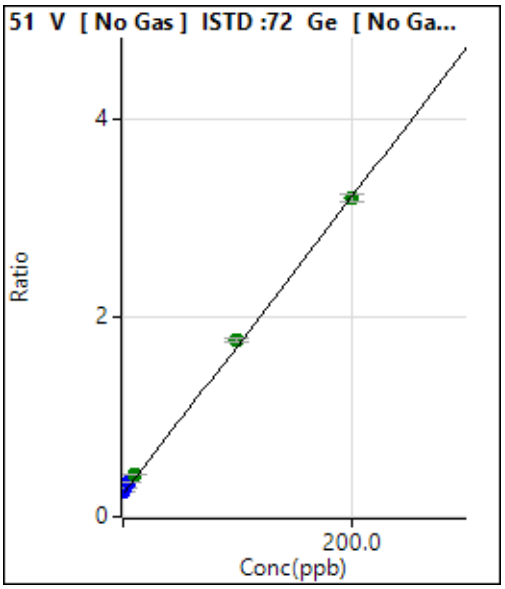
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
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2	☐	2.000	1.985	620.03	0.0006	P	7.4	-0.7
3	☐	5.000	4.695	1450.10	0.0014	P	12.9	-6.1
4	☐	10.000	8.990	2753.65	0.0027	P	7.7	-10.1
5	☐	100.000	99.345	29518.45	0.0297	P	3.1	-0.7
6	☐	200.000	200.386	58607.32	0.0599	P	5.9	0.2

y = 2.9875E-004 * x + 1.6549E-005
R = 1.0000
DL = 0.2087 ppb
BEC = 0.05539 ppb

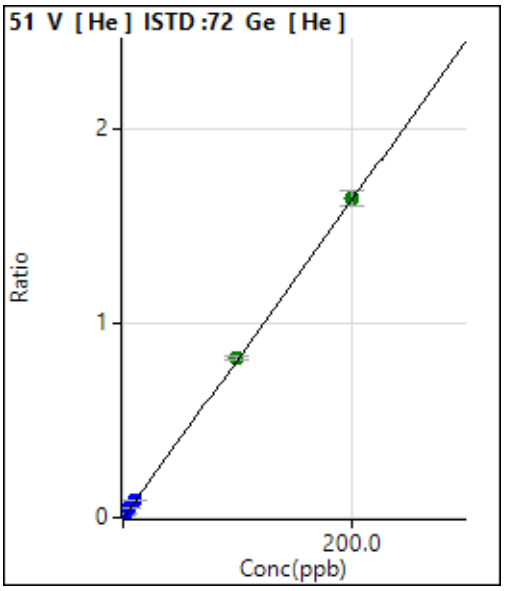
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	770036.20	0.2435	P	1.3	
2	☐	2.000	2.814	895416.59	0.2855	P	1.2	40.7
3	☐	5.000	6.524	1072484.40	0.3409	P	0.9	30.5
4	☐	10.000	12.510	1347910.39	0.4302	A	1.0	25.1
5	☐	100.000	103.108	5444269.24	1.7824	A	2.3	3.1
6	☐	200.000	198.274	9634008.04	3.2027	A	1.8	-0.9

y = 0.0149 * x + 0.2435
R = 0.9998
DL = 0.6353 ppb
BEC = 16.32 ppb

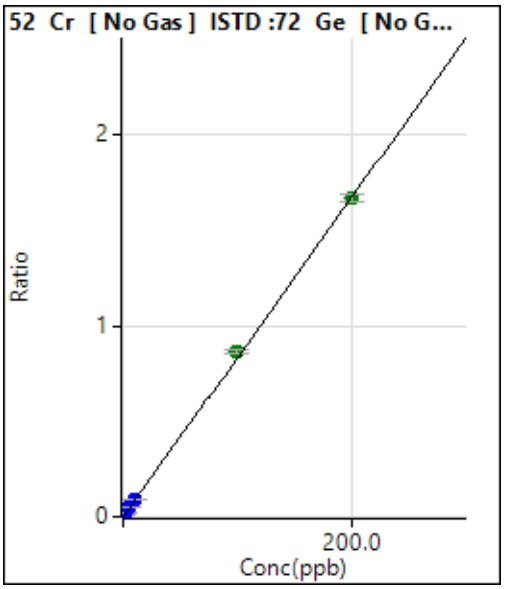
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5992.44	0.0059	P	4.0	
2	☐	2.000	1.939	22149.95	0.0218	P	0.7	-3.1
3	☐	5.000	4.979	47653.70	0.0467	P	1.1	-0.4
4	☐	10.000	9.854	88230.82	0.0866	P	0.8	-1.5
5	☐	100.000	99.539	815808.60	0.8208	A	2.4	-0.5
6	☐	200.000	200.239	1610279.52	1.6451	A	4.5	0.1

y = 0.0082 * x + 0.0059
R = 1.0000
DL = 0.08703 ppb
BEC = 0.7214 ppb

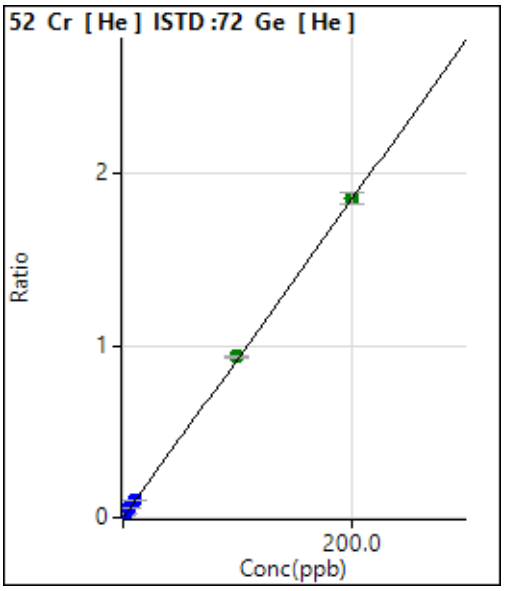
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	24168.10	0.0076	P	3.6	
2	☐	2.000	2.043	77634.26	0.0248	P	3.3	2.2
3	☐	5.000	5.229	161797.67	0.0514	P	2.4	4.6
4	☐	10.000	10.423	297427.24	0.0949	P	0.8	4.2
5	☐	100.000	102.556	2646772.83	0.8665	A	1.9	2.6
6	☐	200.000	198.694	5028337.95	1.6716	A	2.0	-0.7

y = 0.0084 * x + 0.0076
R = 0.9999
DL = 0.09799 ppb
BEC = 0.9128 ppb

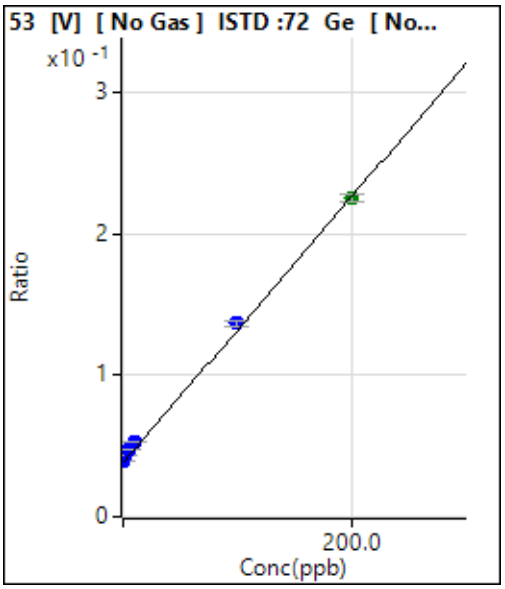
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	8449.38	0.0083	P	4.5	
2	☐	2.000	1.984	27133.63	0.0267	P	1.2	-0.8
3	☐	5.000	4.993	55658.94	0.0545	P	1.2	-0.1
4	☐	10.000	10.119	103850.96	0.1019	P	0.9	1.2
5	☐	100.000	100.453	931693.87	0.9372	A	1.3	0.5
6	☐	200.000	199.768	1816233.62	1.8555	A	4.1	-0.1

y = 0.0092 * x + 0.0083
R = 1.0000
DL = 0.123 ppb
BEC = 0.901 ppb

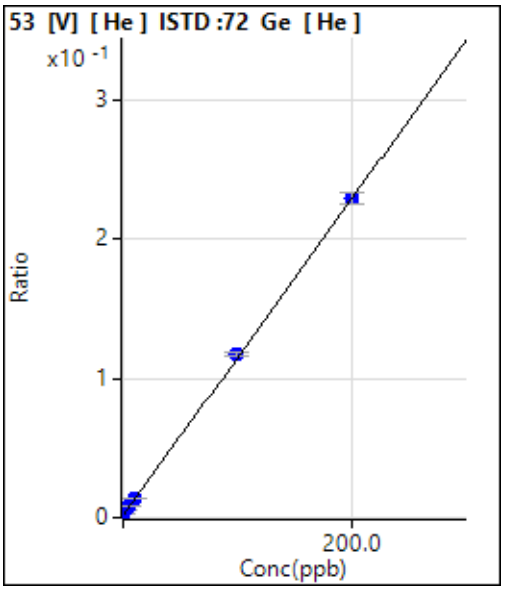
Weight: <None>
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	124325.31	0.0393	P	1.4	
2	☐	2.000	4.005	135101.29	0.0431	P	1.1	100.3
3	☐	5.000	8.936	150100.82	0.0477	P	1.1	78.7
4	☐	10.000	14.008	164390.03	0.0525	P	0.4	40.1
5	☐	100.000	103.587	417187.43	0.1366	P	2.6	3.6
6	☐	200.000	197.888	677206.08	0.2251	A	2.1	-1.1

y = 9.3899E-004 * x + 0.0393
R = 0.9997
DL = 1.804 ppb
BEC = 41.87 ppb

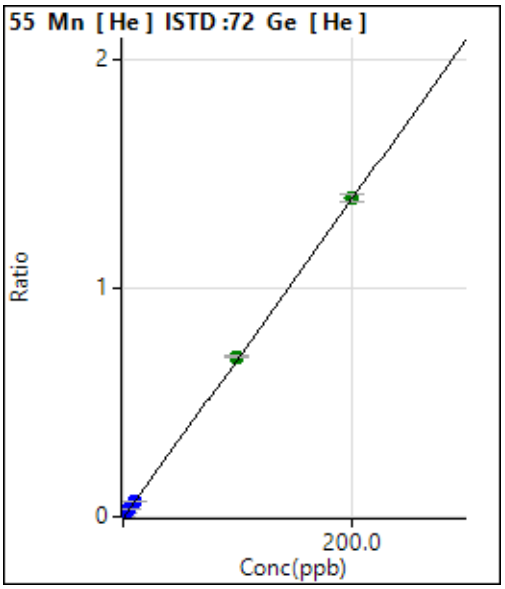
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2716.99	0.0027	P	5.3	
2	☐	2.000	1.939	4964.29	0.0049	P	1.8	-3.0
3	☐	5.000	5.043	8582.82	0.0084	P	5.2	0.9
4	☐	10.000	10.130	14451.16	0.0142	P	3.2	1.3
5	☐	100.000	101.246	116921.24	0.1176	P	1.9	1.2
6	☐	200.000	199.370	224171.40	0.2290	P	3.3	-0.3

y = 0.0011 * x + 0.0027
R = 1.0000
DL = 0.3752 ppb
BEC = 2.359 ppb

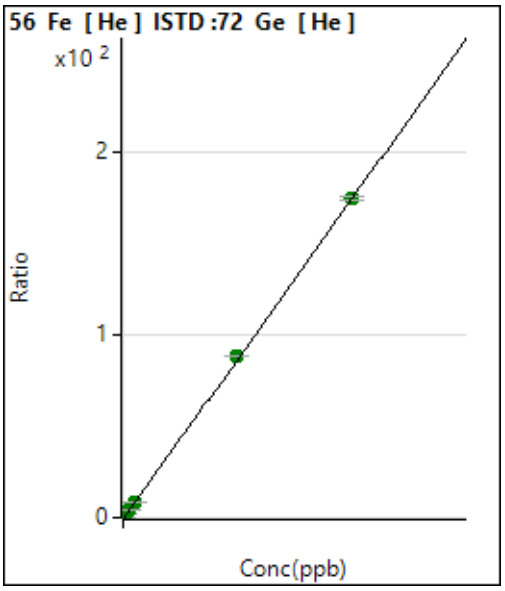
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	536.69	0.0005	P	6.9	
2	☐	2.000	1.969	14481.17	0.0142	P	4.3	-1.5
3	☐	5.000	5.038	36351.54	0.0356	P	3.8	0.8
4	☐	10.000	10.021	71625.34	0.0703	P	1.5	0.2
5	☐	100.000	100.068	692897.78	0.6970	A	1.1	0.1
6	☐	200.000	199.964	1362943.00	1.3924	A	2.6	0.0

y = 0.0070 * x + 5.2881E-004
R = 1.0000
DL = 0.01583 ppb
BEC = 0.07597 ppb

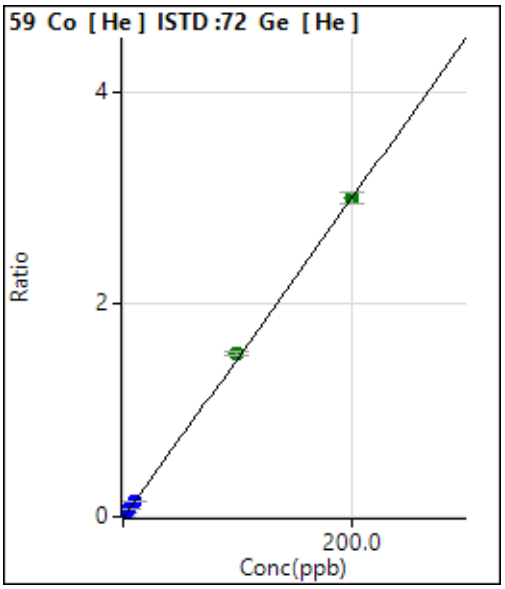
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	15555.62	0.0153	P	1.6	
2	☐	200.000	195.998	1765293.88	1.7354	A	1.6	-2.0
3	☐	500.000	504.340	4535585.45	4.4414	A	1.4	0.9
4	☐	1000.000	1007.659	9027939.86	8.8584	A	0.8	0.8
5	☐	10000.00	10088.53	88023532.02	88.5512	A	0.9	0.9
6	☐	20000.00	19955.28	171450704.1	175.140	A	1.4	-0.2

y = 0.0088 * x + 0.0153
R = 1.0000
DL = 0.08465 ppb
BEC = 1.747 ppb

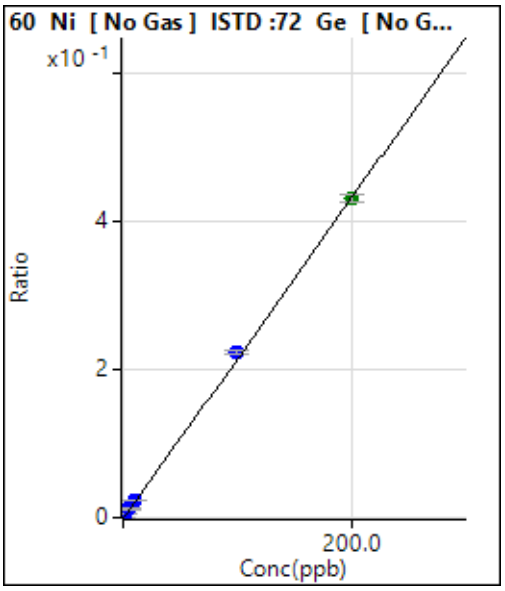
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	146.67	0.0001	P	21.9	
2	☐	2.000	1.973	30390.63	0.0299	P	1.3	-1.3
3	☐	5.000	5.031	77557.90	0.0760	P	1.3	0.6
4	☐	10.000	10.067	154740.82	0.1518	P	0.8	0.7
5	☐	100.000	101.692	1523222.53	1.5324	A	2.2	1.7
6	☐	200.000	199.150	2937387.04	3.0009	A	3.3	-0.4

y = 0.0151 * x + 1.4478E-004
R = 0.9999
DL = 0.006306 ppb
BEC = 0.009609 ppb

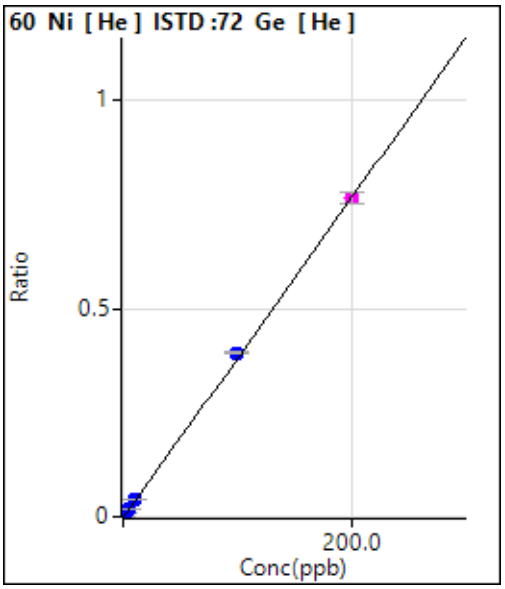
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	726.70	0.0002	P	7.0	
2	☐	2.000	2.095	15001.69	0.0048	P	4.2	4.8
3	☐	5.000	5.316	37070.20	0.0118	P	1.4	6.3
4	☐	10.000	10.430	71736.51	0.0229	P	1.5	4.3
5	☐	100.000	102.555	681495.64	0.2231	P	2.0	2.6
6	☐	200.000	198.692	1299608.34	0.4320	A	2.3	-0.7

y = 0.0022 * x + 2.2986E-004
R = 0.9999
DL = 0.02223 ppb
BEC = 0.1058 ppb

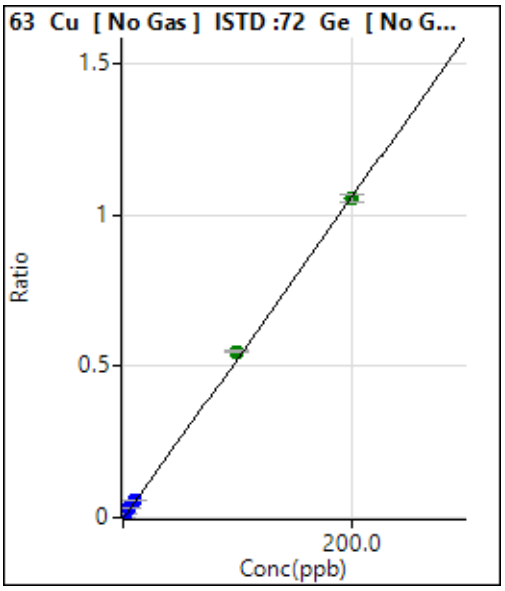
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	473.35	0.0005	P	17.7	
2	☐	2.000	1.889	7869.04	0.0077	P	5.9	-5.5
3	☐	5.000	4.925	19824.64	0.0194	P	3.2	-1.5
4	☐	10.000	10.186	40412.91	0.0397	P	1.4	1.9
5	☐	100.000	102.334	391796.20	0.3941	P	0.8	2.3
6	☐	200.000	198.827	749125.82	0.7654	M	4.1	-0.6

y = 0.0038 * x + 4.6696E-004
R = 0.9999
DL = 0.06432 ppb
BEC = 0.1214 ppb

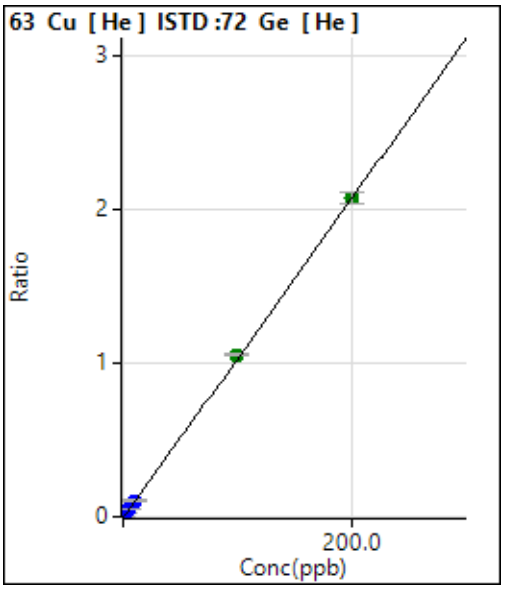
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2190.22	0.0007	P	7.8	
2	☐	2.000	2.117	37457.82	0.0119	P	1.2	5.8
3	☐	5.000	5.347	91603.40	0.0291	P	1.6	6.9
4	☐	10.000	10.483	176741.50	0.0564	P	1.3	4.8
5	☐	100.000	103.129	1676522.01	0.5489	A	1.9	3.1
6	☐	200.000	198.402	3174367.45	1.0553	A	1.8	-0.8

y = 0.0053 * x + 6.9286E-004
R = 0.9998
DL = 0.03041 ppb
BEC = 0.1303 ppb

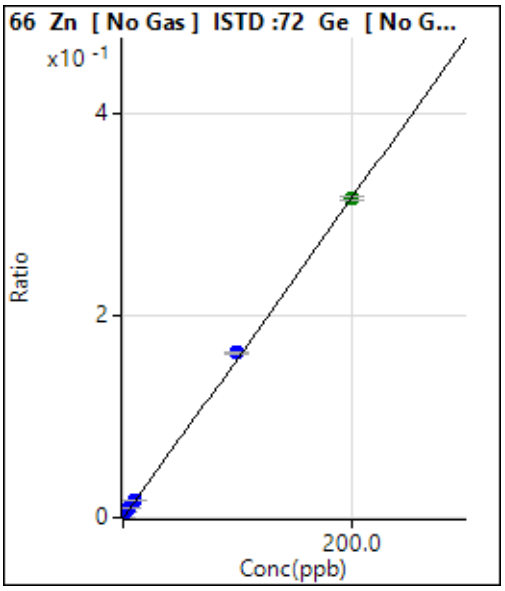
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1126.74	0.0011	P	13.7	
2	☐	2.000	1.981	22068.03	0.0217	P	1.2	-0.9
3	☐	5.000	5.181	56091.05	0.0549	P	2.0	3.6
4	☐	10.000	10.104	108102.57	0.1061	P	0.6	1.0
5	☐	100.000	101.271	1046853.32	1.0531	A	1.3	1.3
6	☐	200.000	199.355	2028187.78	2.0721	A	4.1	-0.3

y = 0.0104 * x + 0.0011
R = 1.0000
DL = 0.04381 ppb
BEC = 0.107 ppb

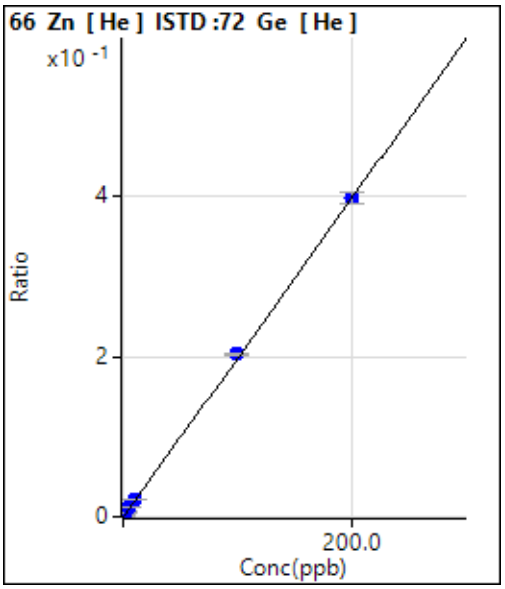
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2937.03	0.0009	P	3.1	
2	☐	2.000	2.497	15338.77	0.0049	P	4.2	24.8
3	☐	5.000	5.289	29325.12	0.0093	P	3.7	5.8
4	☐	10.000	10.471	54970.17	0.0175	P	0.6	4.7
5	☐	100.000	102.185	498167.52	0.1631	P	1.9	2.2
6	☐	200.000	198.872	952158.01	0.3165	A	0.9	-0.6

y = 0.0016 * x + 9.2893E-004
R = 0.9999
DL = 0.05475 ppb
BEC = 0.5853 ppb

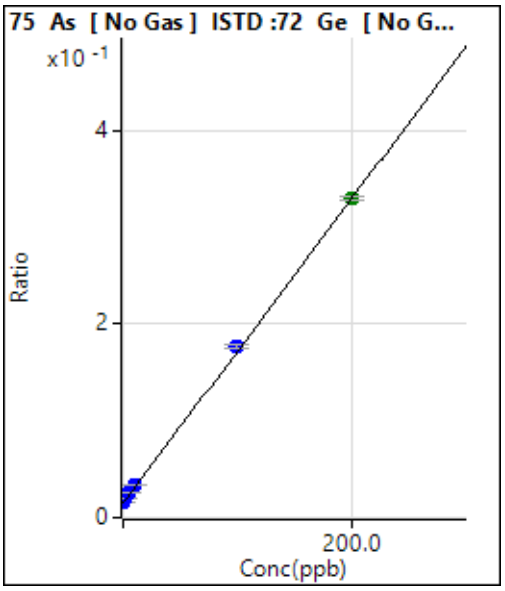
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1186.74	0.0012	P	6.4	
2	☐	2.000	2.384	6028.09	0.0059	P	3.7	19.2
3	☐	5.000	5.142	11668.54	0.0114	P	3.4	2.8
4	☐	10.000	10.072	21667.49	0.0213	P	0.6	0.7
5	☐	100.000	101.415	202256.68	0.2035	P	1.4	1.4
6	☐	200.000	199.282	390273.56	0.3987	P	3.1	-0.4

y = 0.0020 * x + 0.0012
R = 1.0000
DL = 0.1131 ppb
BEC = 0.5866 ppb

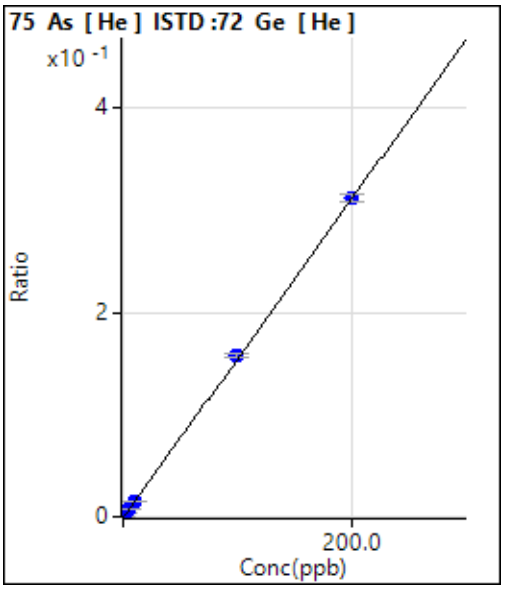
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	52812.51	0.0167	P	1.7	
2	☐	2.000	2.322	63832.44	0.0204	P	1.4	16.1
3	☐	5.000	5.883	81660.20	0.0260	P	1.9	17.7
4	☐	10.000	11.101	107037.72	0.0342	P	0.6	11.0
5	☐	100.000	101.450	538472.35	0.1763	P	2.3	1.5
6	☐	200.000	199.195	992806.26	0.3301	A	1.4	-0.4

y = 0.0016 * x + 0.0167
R = 1.0000
DL = 0.5467 ppb
BEC = 10.62 ppb

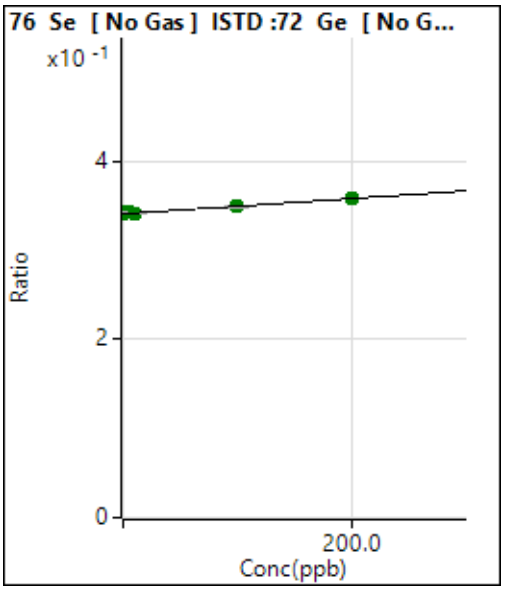
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	357.78	0.0004	P	7.8	
2	☐	2.000	1.895	3370.43	0.0033	P	1.9	-5.3
3	☐	5.000	4.882	8151.36	0.0080	P	2.7	-2.4
4	☐	10.000	9.814	15992.76	0.0157	P	3.1	-1.9
5	☐	100.000	100.655	156714.29	0.1577	P	2.0	0.7
6	☐	200.000	199.686	305836.44	0.3124	P	2.1	-0.2

y = 0.0016 * x + 3.5272E-004
R = 1.0000
DL = 0.05259 ppb
BEC = 0.2257 ppb

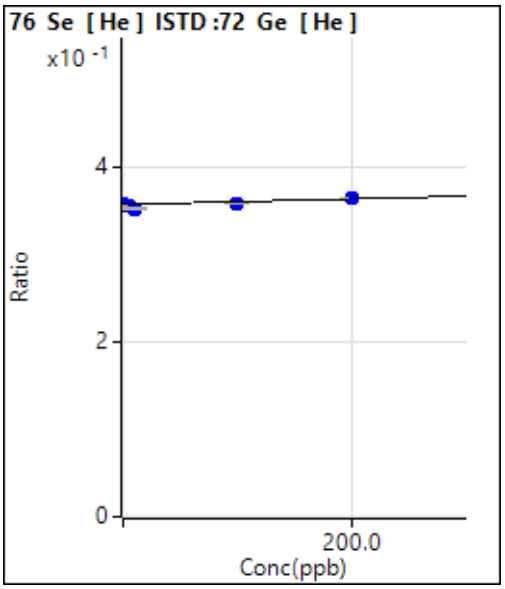
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1078666.63	0.3411	A	0.3	
2	☐	2.000	30.027	1077874.44	0.3437	A	0.2	1401.3
3	☐	5.000	24.247	1079772.77	0.3432	A	0.4	384.9
4	☐	10.000	5.455	1070143.34	0.3416	A	0.3	-45.5
5	☐	100.000	94.499	1066881.94	0.3493	A	0.5	-5.5
6	☐	200.000	202.217	1078654.05	0.3586	A	0.2	1.1

y = 8.6375E-005 * x + 0.3411
R = 0.9863
DL = 35 ppb
BEC = 3949 ppb

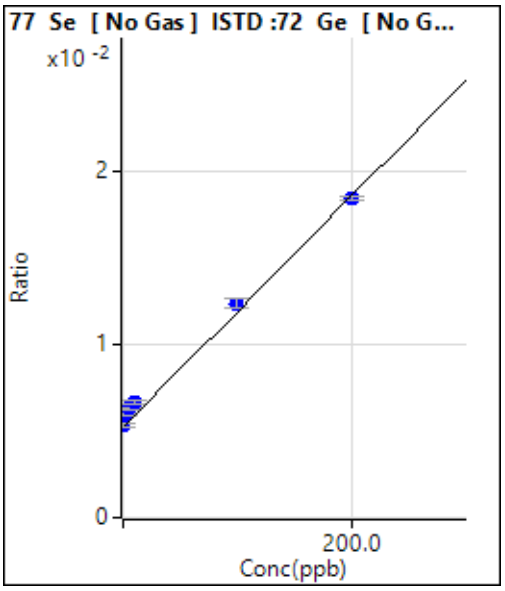
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	362547.61	0.3574	P	0.2	
2	☐	2.000	-45.282	361998.59	0.3559	P	0.9	-2364.
3	☐	5.000	-69.591	362631.69	0.3551	P	1.0	-1491.
4	☐	10.000	-147.033	359330.07	0.3526	P	0.9	-1570.
5	☐	100.000	59.178	357155.95	0.3593	P	0.6	-40.8
6	☐	200.000	230.600	357150.10	0.3648	P	0.1	15.3

y = 3.2344E-005 * x + 0.3574
R = 0.9131
DL = 52.75 ppb
BEC = 1.105E+04 ppb

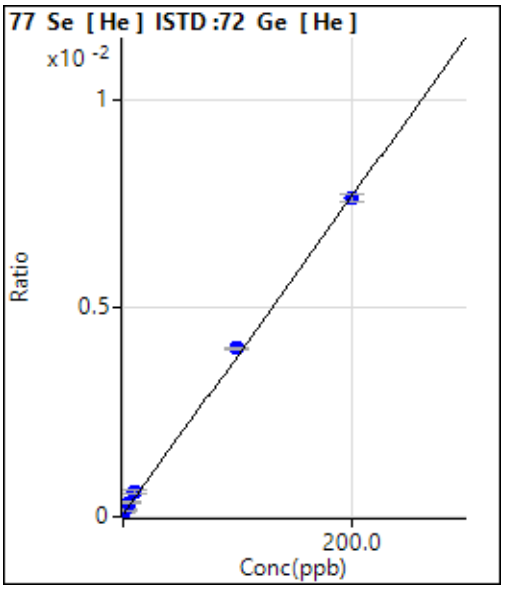
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16914.06	0.0053	P	2.9	
2	☐	2.000	8.824	18622.98	0.0059	P	1.2	341.2
3	☐	5.000	14.011	19774.62	0.0063	P	3.0	180.2
4	☐	10.000	19.265	20786.18	0.0066	P	3.4	92.7
5	☐	100.000	105.427	37826.15	0.0124	P	4.9	5.4
6	☐	200.000	196.530	55543.30	0.0185	P	1.3	-1.7

y = 6.6730E-005 * x + 0.0053
R = 0.9988
DL = 6.871 ppb
BEC = 80.17 ppb

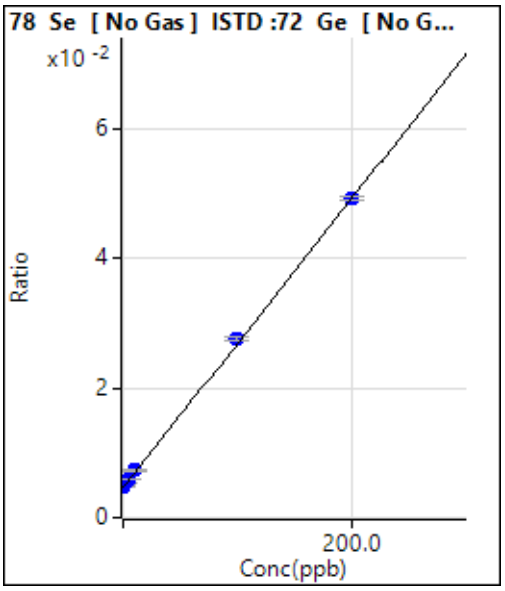
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	96.67	0.0001	P	31.2	
2	☐	2.000	1.890	170.00	0.0002	P	26.9	-5.5
3	☐	5.000	6.238	340.01	0.0003	P	14.9	24.8
4	☐	10.000	13.118	606.69	0.0006	P	20.5	31.2
5	☐	100.000	103.539	4014.00	0.0040	P	1.0	3.5
6	☐	200.000	198.045	7475.50	0.0076	P	2.2	-1.0

y = 3.8081E-005 * x + 9.5180E-005
R = 0.9997
DL = 2.337 ppb
BEC = 2.499 ppb

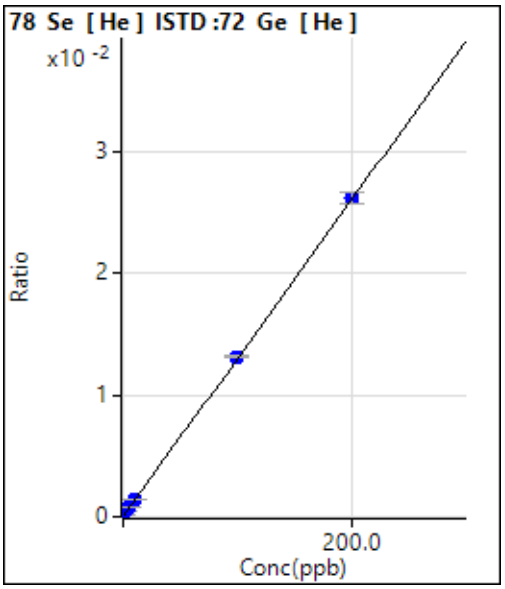
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	15398.96	0.0049	P	4.2	
2	☐	2.000	2.148	16770.62	0.0053	P	1.0	7.4
3	☐	5.000	5.262	19006.91	0.0060	P	0.3	5.2
4	☐	10.000	10.835	22816.08	0.0073	P	0.8	8.4
5	☐	100.000	101.656	84034.67	0.0275	P	2.7	1.7
6	☐	200.000	199.122	148064.39	0.0492	P	0.9	-0.4

y = 2.2274E-004 * x + 0.0049
R = 1.0000
DL = 2.73 ppb
BEC = 21.86 ppb

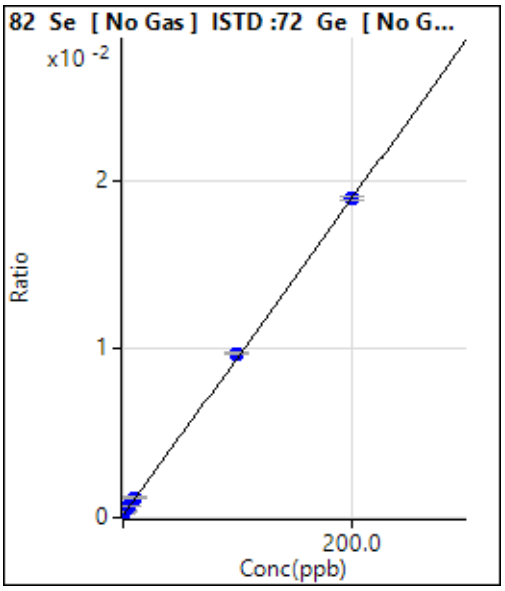
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	156.67	0.0002	P	11.2	
2	☐	2.000	2.004	422.01	0.0004	P	6.8	0.2
3	☐	5.000	5.029	825.36	0.0008	P	0.8	0.6
4	☐	10.000	9.809	1456.75	0.0014	P	0.8	-1.9
5	☐	100.000	99.840	13052.93	0.0131	P	1.2	-0.2
6	☐	200.000	200.089	25607.32	0.0262	P	3.4	0.0

y = 1.2998E-004 * x + 1.5452E-004
R = 1.0000
DL = 0.3985 ppb
BEC = 1.189 ppb

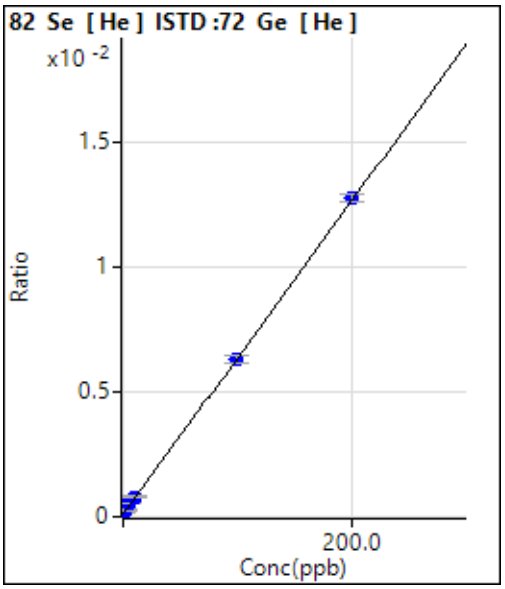
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	696.70	0.0002	P	7.0	
2	☐	2.000	2.170	1330.10	0.0004	P	16.2	8.5
3	☐	5.000	4.752	2096.88	0.0007	P	2.8	-5.0
4	☐	10.000	10.009	3633.88	0.0012	P	6.7	0.1
5	☐	100.000	101.461	29766.30	0.0097	P	2.2	1.5
6	☐	200.000	199.274	56936.19	0.0189	P	1.0	-0.4

y = 9.3877E-005 * x + 2.2038E-004
R = 1.0000
DL = 0.4953 ppb
BEC = 2.348 ppb

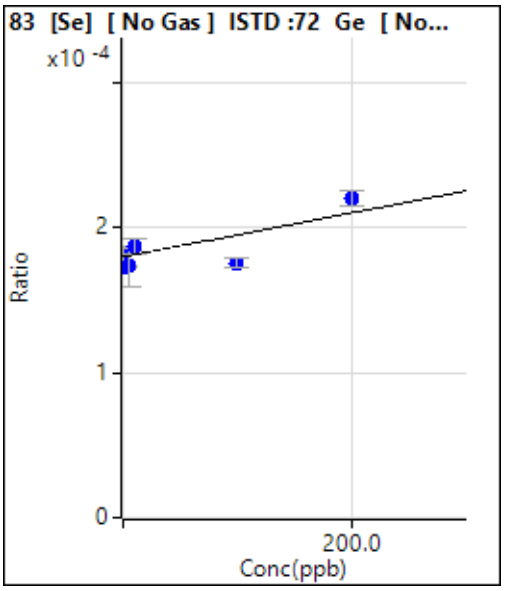
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	166.67	0.0002	P	42.6	
2	☐	2.000	1.615	270.01	0.0003	P	24.2	-19.2
3	☐	5.000	5.599	526.69	0.0005	P	4.5	12.0
4	☐	10.000	9.837	796.70	0.0008	P	7.6	-1.6
5	☐	100.000	98.207	6294.91	0.0063	P	4.3	-1.8
6	☐	200.000	200.894	12515.95	0.0128	P	2.6	0.4

y = 6.2829E-005 * x + 1.6398E-004
R = 0.9999
DL = 3.338 ppb
BEC = 2.61 ppb

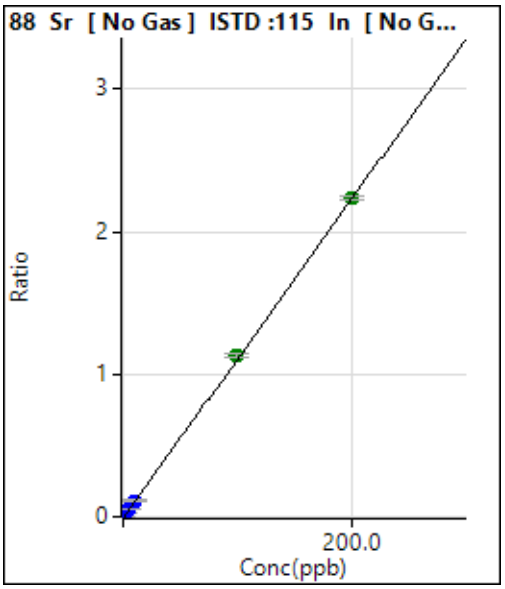
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	570.02	0.0002	P	6.0	
2	☐	2.000	-46.038	543.35	0.0002	P	0.9	-2401.
3	☐	5.000	-41.780	546.69	0.0002	P	16.0	-935.6
4	☐	10.000	46.063	586.69	0.0002	P	6.3	360.6
5	☐	100.000	-29.890	536.69	0.0002	P	4.2	-129.9
6	☐	200.000	264.792	663.36	0.0002	P	4.8	32.4

y = 1.5194E-007 * x + 1.8026E-004
R = 0.8214
DL = 212.3 ppb
BEC = 1186 ppb

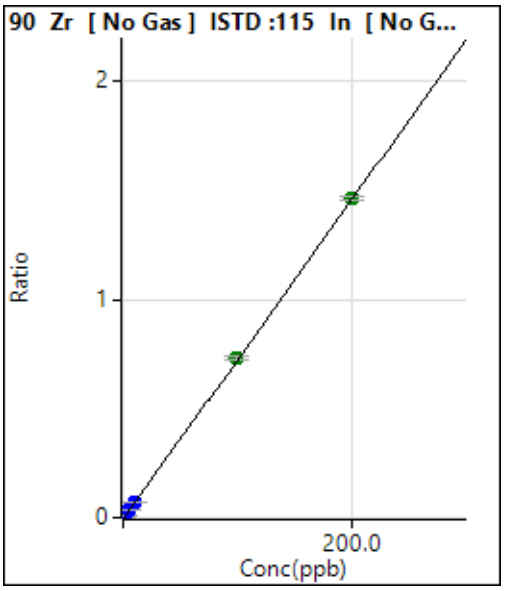
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2000.18	0.0005	P	1.6	
2	☐	2.000	2.050	98534.18	0.0234	P	4.0	2.5
3	☐	5.000	5.124	240931.27	0.0579	P	1.9	2.5
4	☐	10.000	10.143	476612.94	0.1141	P	2.3	1.4
5	☐	100.000	100.633	4548993.37	1.1274	A	2.7	0.6
6	☐	200.000	199.673	8796250.49	2.2365	A	1.3	-0.2

y = 0.0112 * x + 4.7562E-004
R = 1.0000
DL = 0.002068 ppb
BEC = 0.04247 ppb

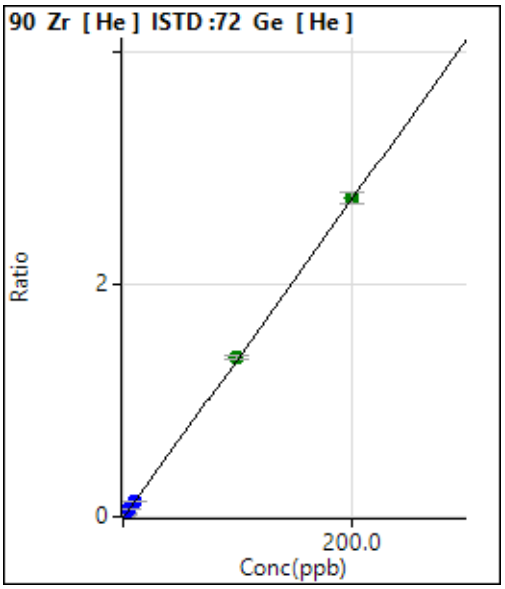
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1466.77	0.0003	P	8.2	
2	☐	2.000	1.659	52532.58	0.0125	P	3.4	-17.1
3	☐	5.000	4.553	140255.40	0.0337	P	3.0	-8.9
4	☐	10.000	9.428	289908.82	0.0694	P	1.6	-5.7
5	☐	100.000	100.186	2960872.04	0.7338	A	3.0	0.2
6	☐	200.000	199.950	5758474.50	1.4642	A	1.7	0.0

y = 0.0073 * x + 3.4878E-004
R = 1.0000
DL = 0.01168 ppb
BEC = 0.04764 ppb

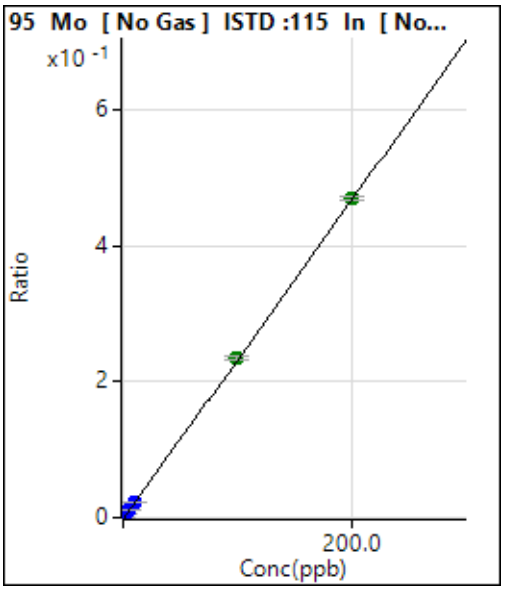
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1560.12	0.0015	P	9.2	
2	☐	2.000	1.682	24976.80	0.0246	P	2.0	-15.9
3	☐	5.000	4.498	64443.46	0.0631	P	2.2	-10.0
4	☐	10.000	9.283	131065.22	0.1286	P	1.5	-7.2
5	☐	100.000	99.976	1361721.54	1.3700	A	2.1	0.0
6	☐	200.000	200.064	2681888.76	2.7399	A	3.5	0.0

y = 0.0137 * x + 0.0015
R = 1.0000
DL = 0.03094 ppb
BEC = 0.1124 ppb

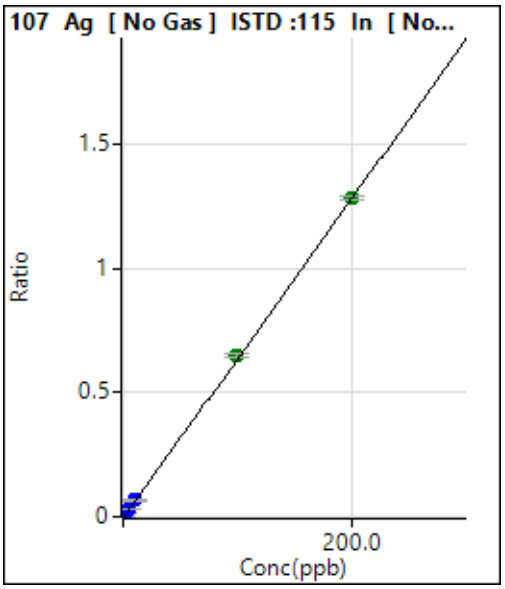
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	163.34	0.0000	P	35.4	
2	☐	2.000	1.898	18936.86	0.0045	P	3.2	-5.1
3	☐	5.000	4.981	48959.44	0.0118	P	1.3	-0.4
4	☐	10.000	9.875	97245.83	0.0233	P	2.2	-1.2
5	☐	100.000	99.769	947224.36	0.2348	A	2.7	-0.2
6	☐	200.000	200.123	1851817.58	0.4709	A	1.5	0.1

y = 0.0024 * x + 3.8845E-005
R = 1.0000
DL = 0.01755 ppb
BEC = 0.01651 ppb

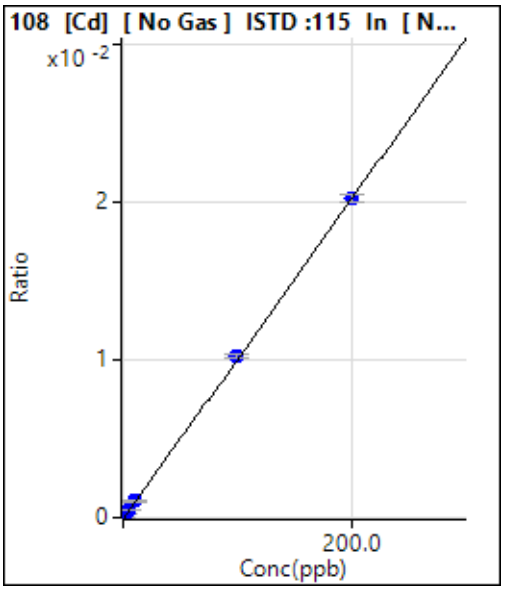
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	780.04	0.0002	P	2.6	
2	☐	2.000	1.988	54655.06	0.0130	P	3.0	-0.6
3	☐	5.000	5.157	139168.54	0.0334	P	1.4	3.1
4	☐	10.000	10.235	276395.75	0.0661	P	1.5	2.4
5	☐	100.000	100.853	2623114.96	0.6501	A	2.2	0.9
6	☐	200.000	199.558	5058401.49	1.2862	A	1.4	-0.2

y = 0.0064 * x + 1.8548E-004
R = 1.0000
DL = 0.002215 ppb
BEC = 0.02878 ppb

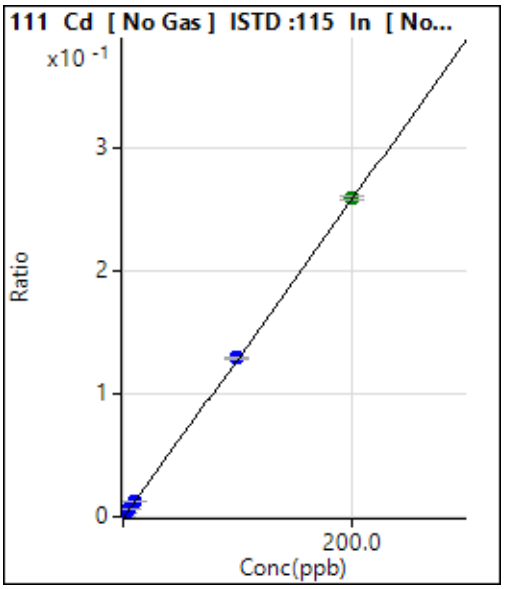
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	10.00	0.0000	P	100.	
2	☐	2.000	2.224	960.05	0.0002	P	6.3	11.2
3	☐	5.000	5.110	2170.23	0.0005	P	2.7	2.2
4	☐	10.000	10.192	4334.11	0.0010	P	3.0	1.9
5	☐	100.000	101.293	41508.11	0.0103	P	2.3	1.3
6	☐	200.000	199.339	79620.28	0.0202	P	2.2	-0.3

y = 1.0154E-004 * x + 2.3778E-006
R = 1.0000
DL = 0.07031 ppb
BEC = 0.02342 ppb

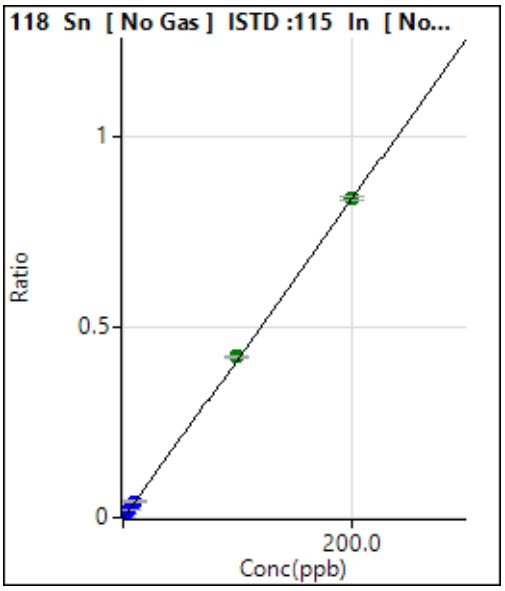
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5.94	0.0000	P	265.	
2	☐	2.000	1.922	10461.64	0.0025	P	7.4	-3.9
3	☐	5.000	5.166	27859.14	0.0067	P	3.3	3.3
4	☐	10.000	9.662	52271.34	0.0125	P	4.2	-3.4
5	☐	100.000	99.667	520646.94	0.1290	P	1.7	-0.3
6	☐	200.000	200.180	1019256.56	0.2592	A	1.6	0.1

y = 0.0013 * x + 1.4092E-006
R = 1.0000
DL = 0.008681 ppb
BEC = 0.001088 ppb

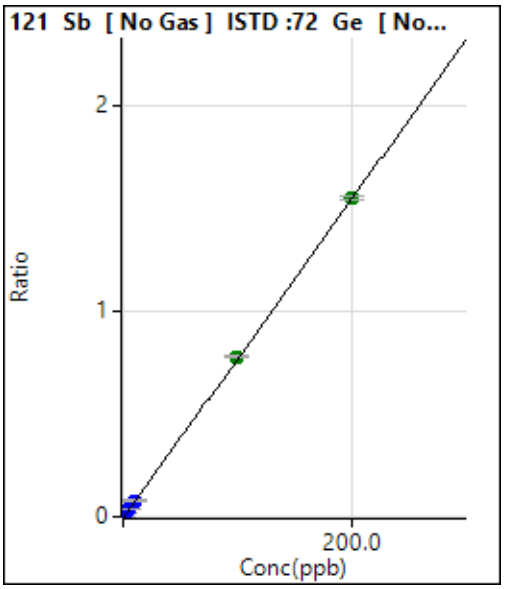
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4374.17	0.0010	P	6.1	
2	☐	2.000	2.016	39957.25	0.0095	P	1.3	0.8
3	☐	5.000	5.071	92960.47	0.0223	P	0.8	1.4
4	☐	10.000	9.956	178965.62	0.0428	P	2.1	-0.4
5	☐	100.000	100.623	1708373.15	0.4234	A	1.1	0.6
6	☐	200.000	199.689	3300586.93	0.8392	A	1.0	-0.2

y = 0.0042 * x + 0.0010
R = 1.0000
DL = 0.045 ppb
BEC = 0.2478 ppb

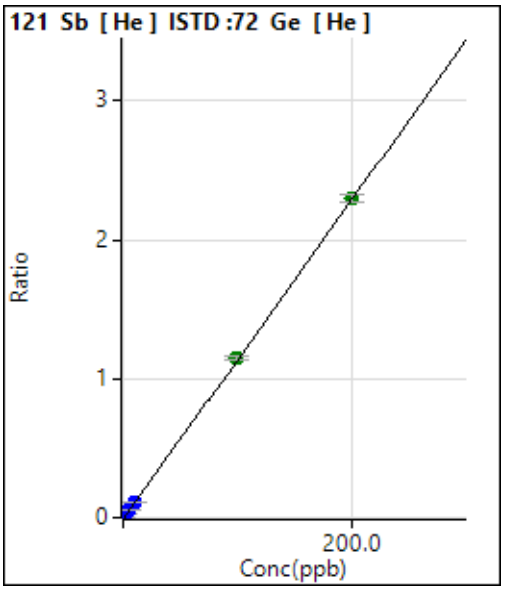
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	743.37	0.0002	P	12.1	
2	☐	2.000	2.047	50526.32	0.0161	P	2.1	2.4
3	☐	5.000	5.128	125836.32	0.0400	P	3.9	2.6
4	☐	10.000	10.171	247858.34	0.0791	P	1.5	1.7
5	☐	100.000	100.442	2380025.54	0.7792	A	1.1	0.4
6	☐	200.000	199.767	4660872.02	1.5495	A	0.8	-0.1

y = 0.0078 * x + 2.3521E-004
R = 1.0000
DL = 0.01103 ppb
BEC = 0.03033 ppb

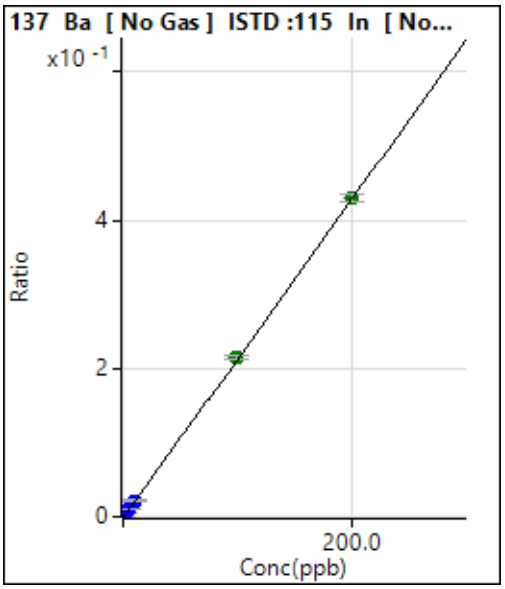
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	350.01	0.0003	P	31.9	
2	☐	2.000	1.936	22986.92	0.0226	P	2.2	-3.2
3	☐	5.000	5.059	59734.73	0.0585	P	2.1	1.2
4	☐	10.000	10.009	117605.47	0.1154	P	0.7	0.1
5	☐	100.000	99.966	1142592.41	1.1494	A	1.4	0.0
6	☐	200.000	200.016	2250923.98	2.2995	A	1.9	0.0

y = 0.0115 * x + 3.4481E-004
R = 1.0000
DL = 0.02871 ppb
BEC = 0.03 ppb

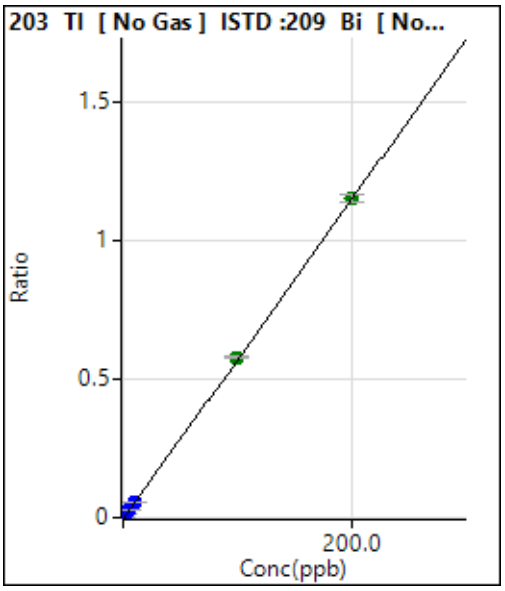
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1033.40	0.0002	P	5.4	
2	☐	2.000	1.821	17481.99	0.0042	P	3.8	-8.9
3	☐	5.000	5.025	45970.88	0.0110	P	1.7	0.5
4	☐	10.000	9.992	90712.44	0.0217	P	3.1	-0.1
5	☐	100.000	99.950	867333.32	0.2150	A	1.5	0.0
6	☐	200.000	200.026	1690800.81	0.4299	A	2.0	0.0

y = 0.0021 * x + 2.4574E-004
R = 1.0000
DL = 0.01869 ppb
BEC = 0.1144 ppb

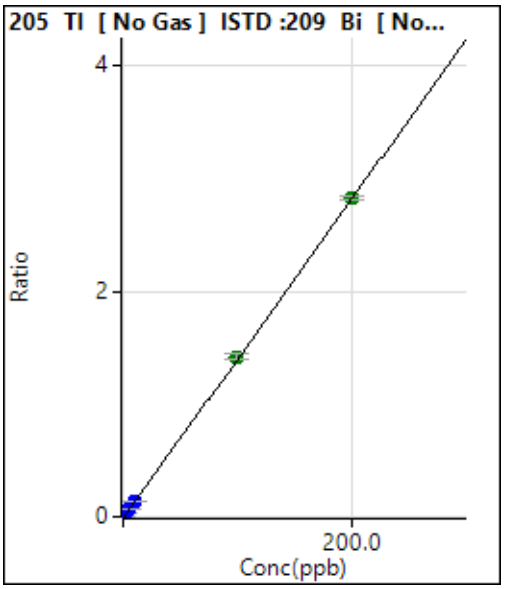
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	313.34	0.0001	P	15.7	
2	☐	2.000	1.981	54832.93	0.0115	P	3.2	-0.9
3	☐	5.000	5.053	138710.97	0.0293	P	1.2	1.1
4	☐	10.000	10.065	274947.16	0.0582	P	1.7	0.7
5	☐	100.000	100.455	2685721.31	0.5808	A	1.2	0.5
6	☐	200.000	199.768	5175941.90	1.1548	A	1.9	-0.1

y = 0.0058 * x + 6.6055E-005
R = 1.0000
DL = 0.005369 ppb
BEC = 0.01143 ppb

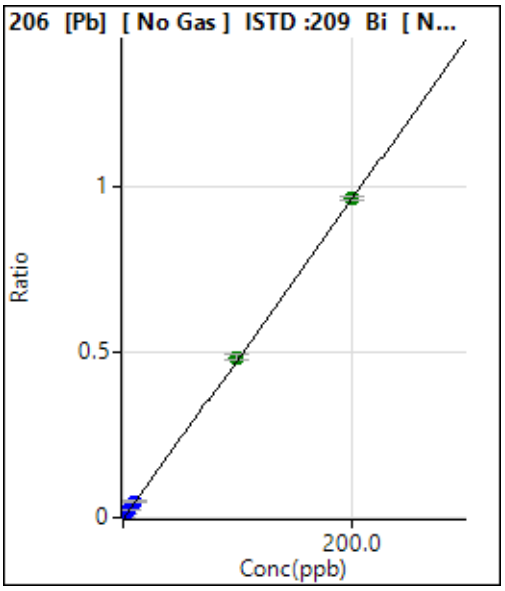
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	743.37	0.0002	P	10.8	
2	☐	2.000	1.928	130801.13	0.0275	P	3.0	-3.6
3	☐	5.000	4.895	329383.95	0.0695	P	0.8	-2.1
4	☐	10.000	9.844	659184.07	0.1397	P	1.5	-1.6
5	☐	100.000	100.422	6581090.32	1.4231	A	2.7	0.4
6	☐	200.000	199.800	12690251.89	2.8313	A	1.2	-0.1

y = 0.0142 * x + 1.5673E-004
R = 1.0000
DL = 0.003597 ppb
BEC = 0.01106 ppb

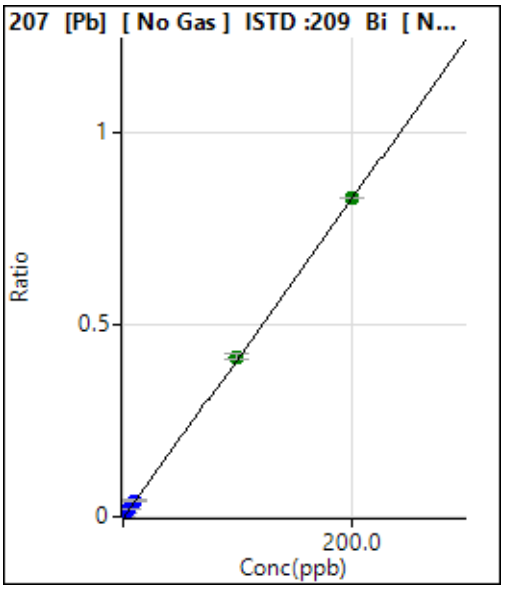
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	763.37	0.0002	P	11.5	
2	☐	2.000	1.998	46583.24	0.0098	P	3.3	-0.1
3	☐	5.000	5.080	116731.71	0.0246	P	1.6	1.6
4	☐	10.000	10.147	231476.35	0.0490	P	2.4	1.5
5	☐	100.000	100.409	2237577.99	0.4839	A	2.8	0.4
6	☐	200.000	199.786	4314413.37	0.9626	A	1.4	-0.1

y = 0.0048 * x + 1.6108E-004
R = 1.0000
DL = 0.01156 ppb
BEC = 0.03344 ppb

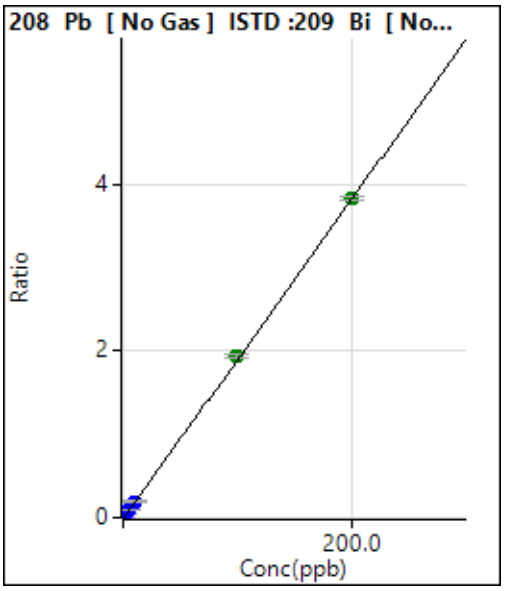
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	660.03	0.0001	P	5.1	
2	☐	2.000	1.976	39780.11	0.0084	P	2.9	-1.2
3	☐	5.000	5.031	99811.12	0.0211	P	0.9	0.6
4	☐	10.000	10.110	199120.59	0.0422	P	2.3	1.1
5	☐	100.000	100.425	1932172.73	0.4178	A	2.8	0.4
6	☐	200.000	199.781	3724963.38	0.8311	A	0.6	-0.1

y = 0.0042 * x + 1.3922E-004
R = 1.0000
DL = 0.00517 ppb
BEC = 0.03347 ppb

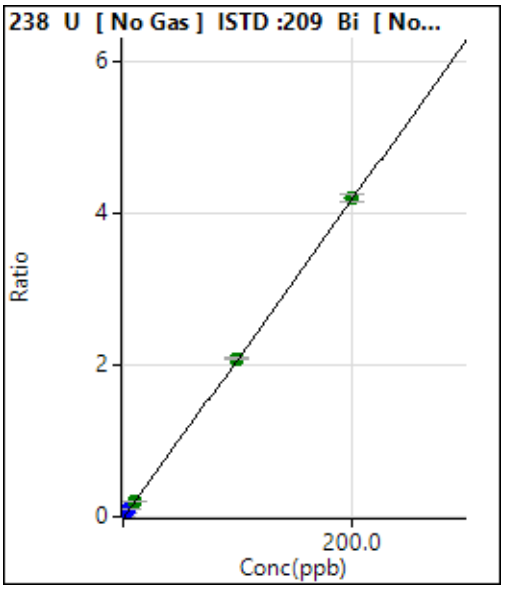
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2940.19	0.0006	P	5.2	
2	☐	2.000	1.990	184911.17	0.0388	P	1.7	-0.5
3	☐	5.000	5.067	464000.24	0.0979	P	1.2	1.3
4	☐	10.000	10.128	921048.01	0.1951	P	2.0	1.3
5	☐	100.000	100.591	8936486.90	1.9324	A	2.3	0.6
6	☐	200.000	199.696	17192289.95	3.8357	A	0.9	-0.2

y = 0.0192 * x + 6.2039E-004
R = 1.0000
DL = 0.005044 ppb
BEC = 0.0323 ppb

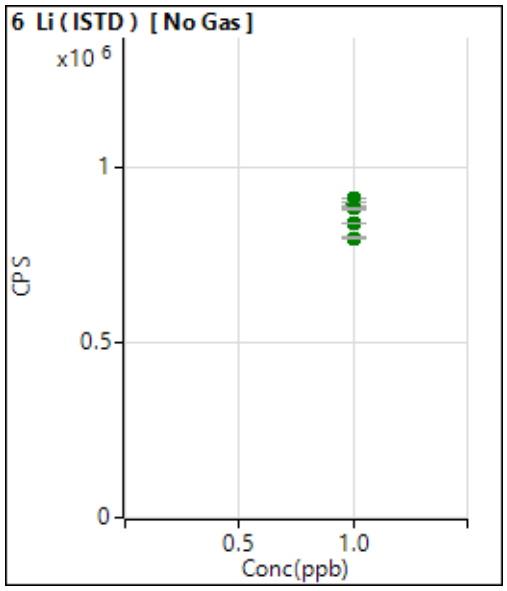
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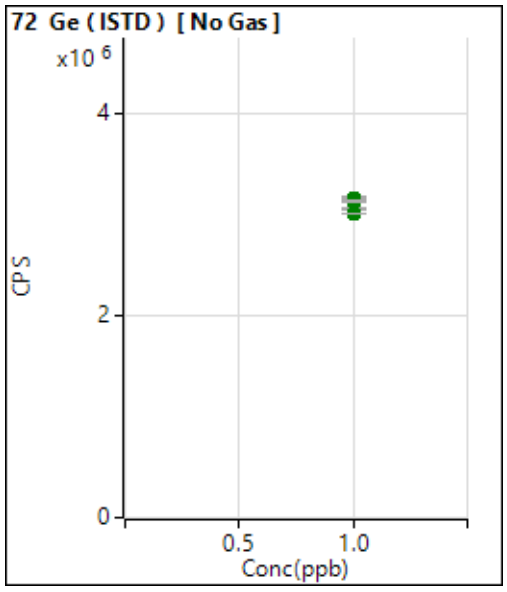
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1	☐	0.000	0.000	656.70	0.0001	P	16.8	
2	☐	2.000	1.893	189619.82	0.0398	P	1.0	-5.4
3	☐	5.000	4.819	479451.75	0.1012	P	0.9	-3.6
4	☐	10.000	9.599	950757.88	0.2014	A	1.1	-4.0
5	☐	100.000	99.444	9644160.48	2.0854	A	1.6	-0.6
6	☐	200.000	200.303	18826205.97	4.2004	A	1.9	0.2

y = 0.0210 * x + 1.3863E-004
R = 1.0000
DL = 0.003341 ppb
BEC = 0.006611 ppb

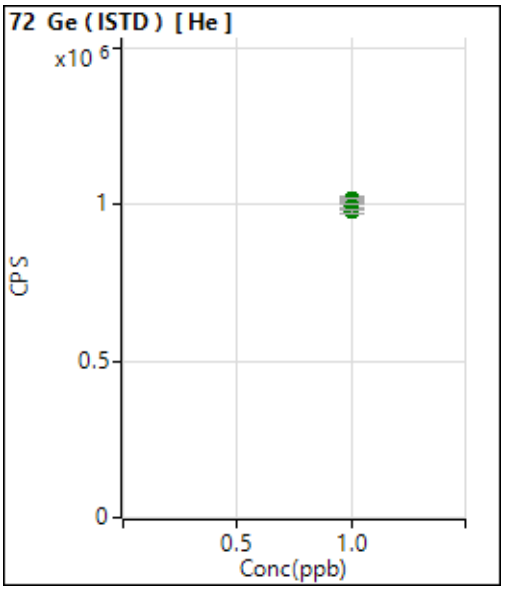
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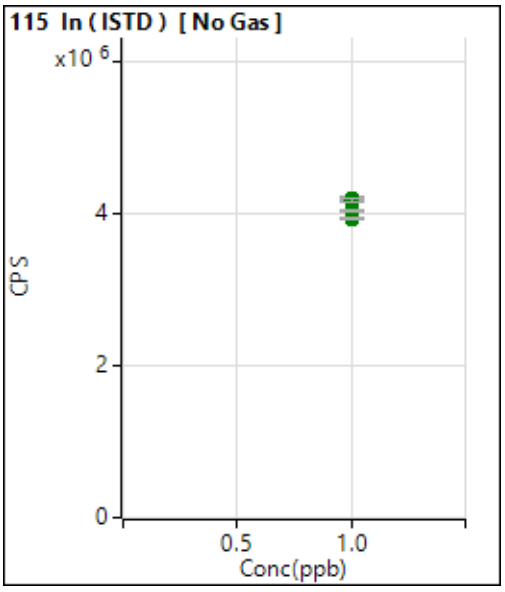
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		911461.05		A	0.5	
2	☐	1.000		894992.67		A	0.9	
3	☐	1.000		898858.09		A	0.2	
4	☐	1.000		881485.27		A	0.4	
5	☐	1.000		840923.68		A	0.1	
6	☐	1.000		797990.20		A	0.6	



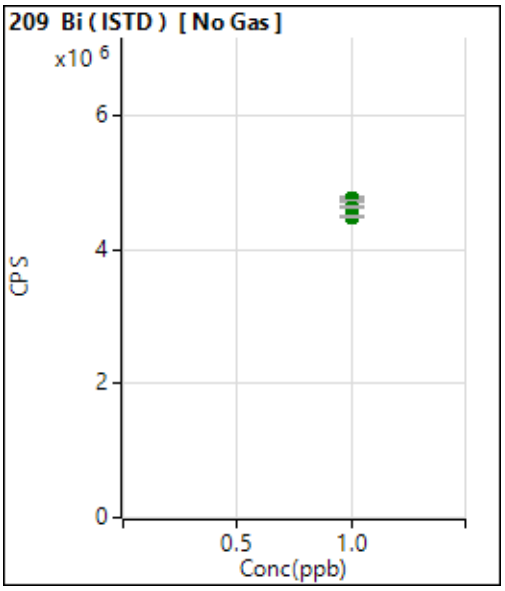
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2	☐	1.000		3136027.56		A	0.2	
3	☐	1.000		3146186.52		A	0.8	
4	☐	1.000		3132886.62		A	0.3	
5	☐	1.000		3054595.16		A	0.4	
6	☐	1.000		3008113.18		A	0.5	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1014502.25		A	1.0	
2	☐	1.000		1017165.95		A	0.7	
3	☐	1.000		1021204.98		A	0.7	
4	☐	1.000		1019096.76		A	0.7	
5	☐	1.000		994095.92		A	1.1	
6	☐	1.000		978960.97		A	0.8	



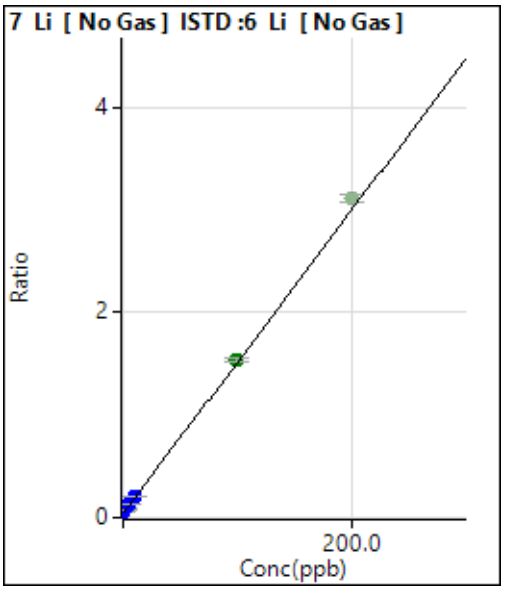
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1	☐	1.000		4205489.74		A	0.1	
2	☐	1.000		4205850.02		A	1.7	
3	☐	1.000		4164105.58		A	0.4	
4	☐	1.000		4179171.19		A	0.9	
5	☐	1.000		4035033.65		A	0.3	
6	☐	1.000		3933054.43		A	0.8	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4740488.26		A	0.8	
2	☐	1.000		4760199.10		A	0.6	
3	☐	1.000		4738026.70		A	0.9	
4	☐	1.000		4720190.97		A	0.2	
5	☐	1.000		4624622.33		A	0.7	
6	☐	1.000		4482308.68		A	0.7	

Batch Folder: C:\Agilent\ICPMH\1\DATA\060724A.b\
Analysis File: 060724A.batch.bin
DA Date-Time: 6/7/2024 1:50:48 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

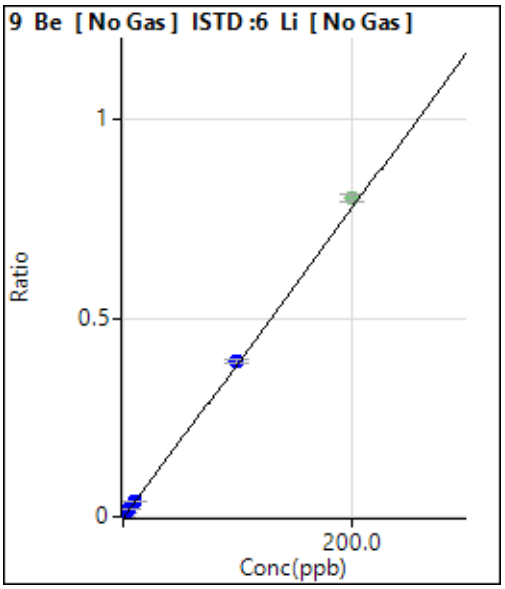
Level	Standard Data File	Sample Name	Acq. Date-Time
1	010CALB.d	CAL BLK	6/7/2024 10:41:58 AM
2	011CALS.d	2/10/200	6/7/2024 10:44:40 AM
3	012CALS.d	5/25/500	6/7/2024 10:47:22 AM
4	013CALS.d	10/50/100	6/7/2024 10:50:02 AM
5	014CALS.d	100/500/10K	6/7/2024 10:52:42 AM
6	015CALS.d	200/1000/20K	6/7/2024 10:55:21 AM



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	63072.09	0.0561	P	1.8	
2	☐	2.000	1.921	94821.20	0.0844	P	0.9	-4.0
3	☐	5.000	4.935	142536.74	0.1290	P	1.5	-1.3
4	☐	10.000	9.750	219460.00	0.2001	P	1.8	-2.5
5	☐	100.000	100.030	1598747.17	1.5339	A	2.6	0.0
6	☑	200.000		3074045.48	3.1111	A	1.9	

y = 0.0148 * x + 0.0561
R = 1.0000
DL = 0.2065 ppb
BEC = 3.795 ppb

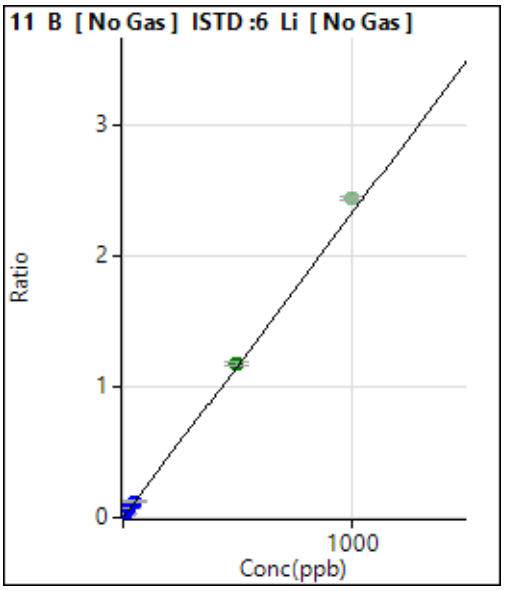
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	45.00	0.0000	P	21.9	
2	☐	2.000	1.883	8280.81	0.0074	P	3.3	-5.9
3	☐	5.000	4.727	20396.35	0.0185	P	1.9	-5.5
4	☐	10.000	9.614	41120.90	0.0375	P	2.7	-3.9
5	☐	100.000	100.055	406351.39	0.3899	P	2.8	0.1
6	☑	200.000		792428.32	0.8020	A	1.9	

y = 0.0039 * x + 3.9976E-005
R = 1.0000
DL = 0.006737 ppb
BEC = 0.01026 ppb

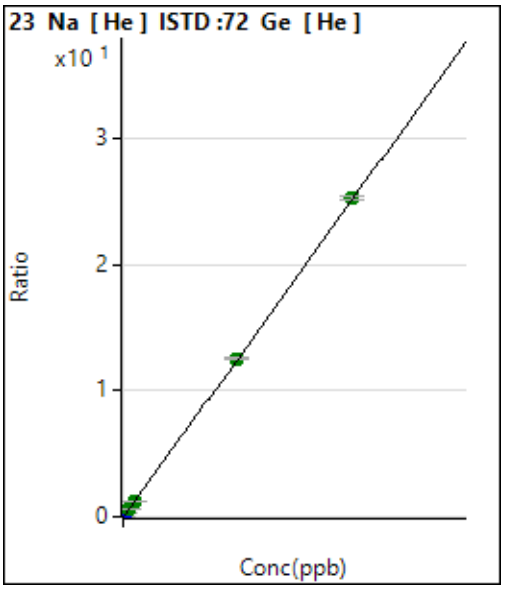
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	15116.44	0.0134	P	3.5	
2	☐	10.000	9.162	39006.72	0.0347	P	1.5	-8.4
3	☐	25.000	23.781	75954.86	0.0687	P	2.5	-4.9
4	☐	50.000	47.598	136104.31	0.1241	P	2.0	-4.8
5	☐	500.000	500.318	1226491.46	1.1767	A	2.3	0.1
6	☑	1000.000		2414511.89	2.4435	A	1.4	

y = 0.0023 * x + 0.0134
R = 1.0000
DL = 0.6148 ppb
BEC = 5.778 ppb

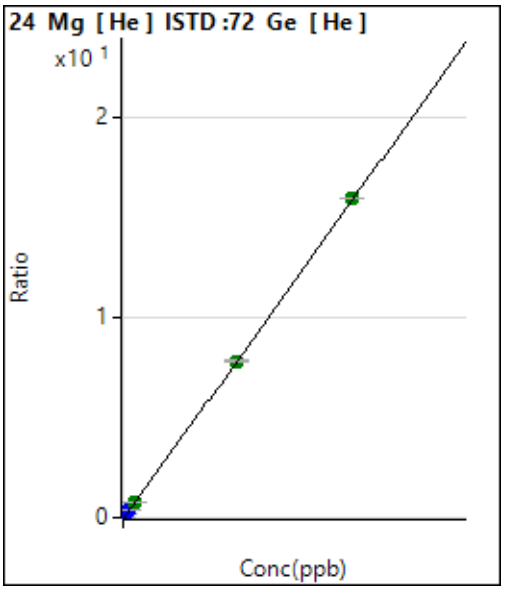
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	70344.94	0.0674	P	0.8	
2	☐	200.000	190.212	319451.15	0.3064	P	2.0	-4.9
3	☐	500.000	480.551	696686.24	0.6713	A	1.4	-3.9
4	☐	1000.000	960.361	1306921.49	1.2742	A	2.4	-4.0
5	☐	10000.00	9893.558	12505093.98	12.4994	A	1.5	-1.1
6	☐	20000.00	20055.78	24798659.63	25.2691	A	0.8	0.3

y = 0.0013 * x + 0.0674
R = 1.0000
DL = 1.295 ppb
BEC = 53.66 ppb

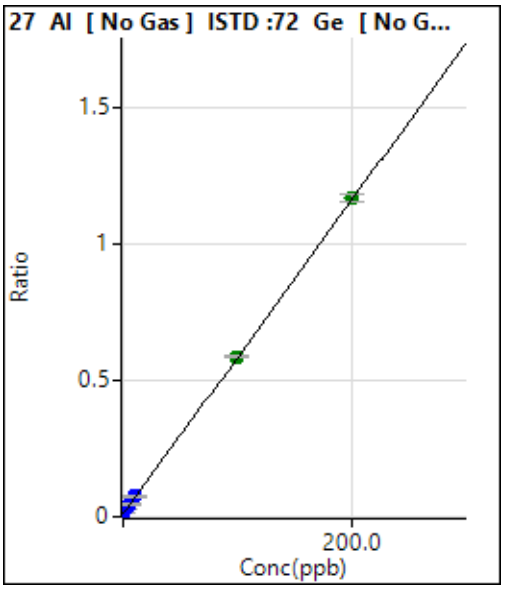
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	483.35	0.0005	P	10.5	
2	☐	200.000	190.401	158192.25	0.1518	P	2.5	-4.8
3	☐	500.000	480.744	396948.94	0.3825	P	1.9	-3.9
4	☐	1000.000	953.446	777585.20	0.7581	A	2.0	-4.7
5	☐	10000.00	9848.103	7829463.01	7.8257	A	1.9	-1.5
6	☐	20000.00	20078.85	15656896.02	15.9551	A	0.4	0.4

y = 7.9460E-004 * x + 4.6337E-004
R = 1.0000
DL = 0.1844 ppb
BEC = 0.5832 ppb

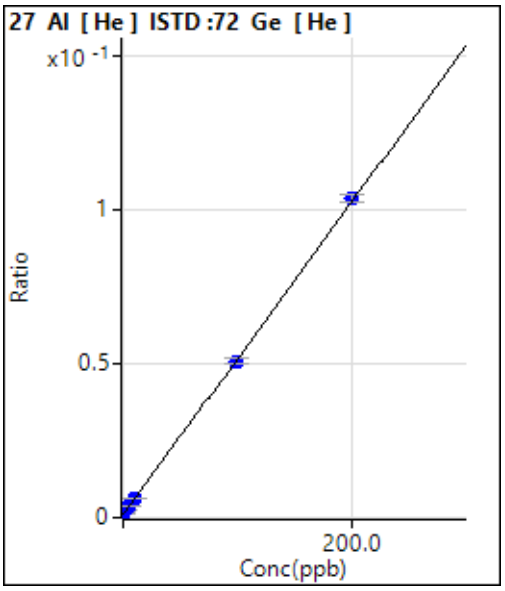
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	52852.75	0.0160	P	3.4	
2	☐	2.000	2.126	92427.36	0.0282	P	3.4	6.3
3	☐	5.000	5.060	147088.70	0.0451	P	3.9	1.2
4	☐	10.000	10.193	239824.46	0.0746	P	3.1	1.9
5	☐	100.000	99.290	1847667.94	0.5868	A	1.9	-0.7
6	☐	200.000	200.343	3608645.99	1.1678	A	2.4	0.2

y = 0.0057 * x + 0.0160
R = 1.0000
DL = 0.2828 ppb
BEC = 2.788 ppb

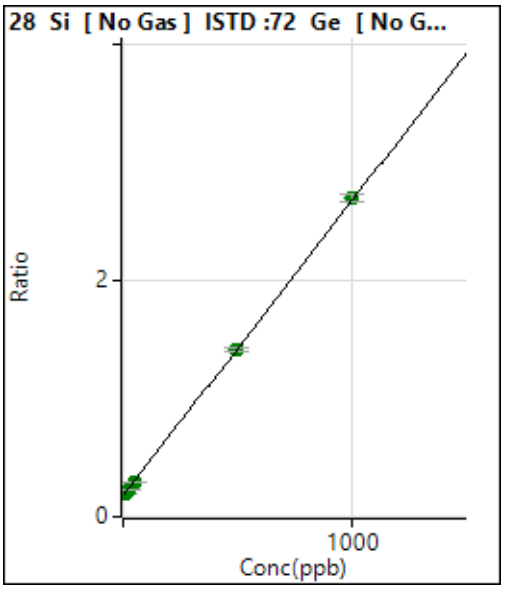
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1556.78	0.0015	P	15.7	
2	☐	2.000	1.841	2530.27	0.0024	P	5.8	-8.0
3	☐	5.000	4.675	4013.98	0.0039	P	7.1	-6.5
4	☐	10.000	9.504	6484.95	0.0063	P	4.7	-5.0
5	☐	100.000	97.284	50919.21	0.0509	P	3.5	-2.7
6	☐	200.000	201.393	101788.59	0.1038	P	2.0	0.7

y = 5.0779E-004 * x + 0.0015
R = 0.9999
DL = 1.381 ppb
BEC = 2.939 ppb

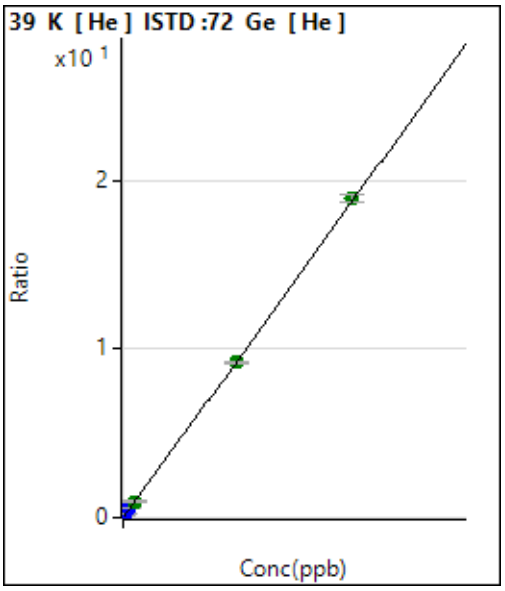
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	639606.24	0.1939	A	1.4	
2	☐	10.000	0.446	638117.00	0.1950	A	1.8	-95.5
3	☐	25.000	15.718	759781.58	0.2330	A	1.6	-37.1
4	☐	50.000	40.281	945140.12	0.2941	A	2.7	-19.4
5	☐	500.000	490.993	4454992.96	1.4149	A	1.8	-1.8
6	☐	1000.000	1005.317	8325166.54	2.6940	A	1.9	0.5

y = 0.0025 * x + 0.1939
R = 0.9999
DL = 3.28 ppb
BEC = 77.97 ppb

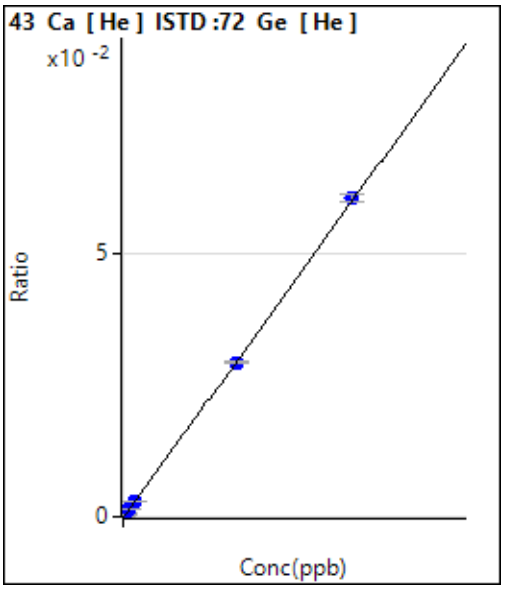
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	84511.59	0.0810	P	1.3	
2	☐	200.000	187.158	267288.71	0.2564	P	1.8	-6.4
3	☐	500.000	475.284	546353.54	0.5264	P	1.8	-4.9
4	☐	1000.000	940.274	986886.08	0.9622	A	2.2	-6.0
5	☐	10000.00	9741.071	9213548.40	9.2099	A	1.6	-2.6
6	☐	20000.00	20133.19	18587452.22	18.9489	A	2.5	0.7

y = 9.3715E-004 * x + 0.0810
R = 0.9999
DL = 3.3 ppb
BEC = 86.44 ppb

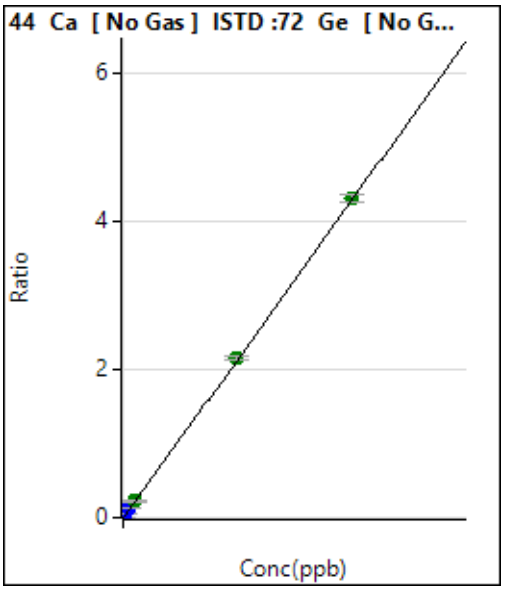
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	66.67	0.0001	P	17.3	
2	☐	200.000	170.891	603.36	0.0006	P	18.7	-14.6
3	☐	500.000	495.407	1613.45	0.0016	P	9.6	-0.9
4	☐	1000.000	931.801	2940.38	0.0029	P	8.2	-6.8
5	☐	10000.00	9719.186	29334.64	0.0293	P	1.6	-2.8
6	☐	20000.00	20144.22	59544.12	0.0607	P	3.0	0.7

y = 3.0104E-006 * x + 6.3900E-005
R = 0.9999
DL = 10.99 ppb
BEC = 21.23 ppb

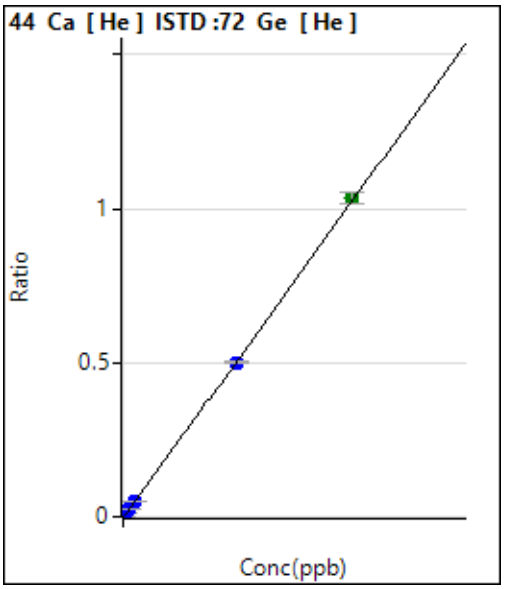
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	39402.97	0.0119	P	2.8	
2	☐	200.000	209.455	185967.84	0.0568	P	1.6	4.7
3	☐	500.000	500.248	388483.08	0.1191	P	3.0	0.0
4	☐	1000.000	989.526	719817.72	0.2240	A	3.7	-1.0
5	☐	10000.00	9935.542	6740913.02	2.1411	A	2.4	-0.6
6	☐	20000.00	20032.65	13302635.22	4.3048	A	2.3	0.2

y = 2.1429E-004 * x + 0.0119
R = 1.0000
DL = 4.679 ppb
BEC = 55.75 ppb

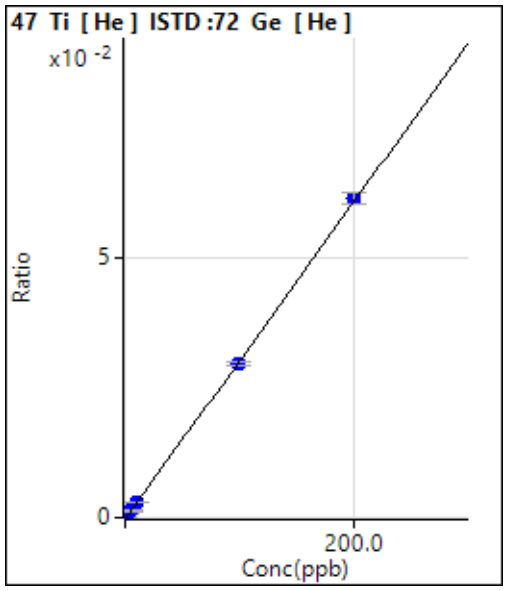
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	783.37	0.0008	P	19.5	
2	☐	200.000	194.379	11188.08	0.0107	P	1.4	-2.8
3	☐	500.000	487.078	26735.99	0.0258	P	2.8	-2.6
4	☐	1000.000	933.472	49939.96	0.0487	P	3.5	-6.7
5	☐	10000.00	9745.119	501377.05	0.5011	P	1.2	-2.5
6	☐	20000.00	20131.14	1014564.67	1.0345	A	3.8	0.7

y = 5.1348E-005 * x + 7.5112E-004
R = 0.9999
DL = 8.565 ppb
BEC = 14.63 ppb

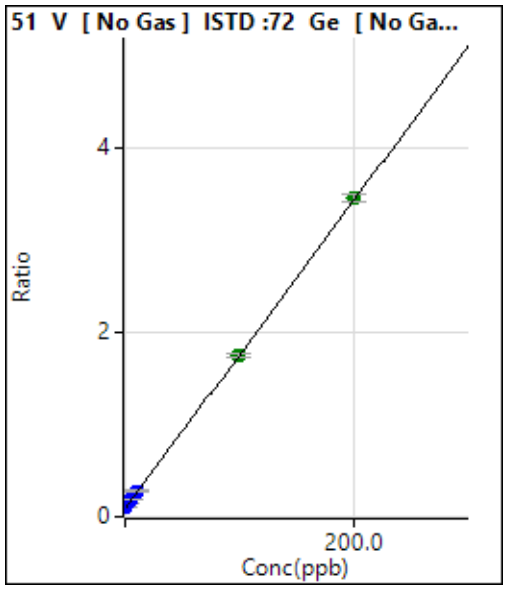
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	13.33	0.0000	P	114.	
2	☐	2.000	2.043	663.36	0.0006	P	18.8	2.1
3	☐	5.000	4.511	1440.10	0.0014	P	17.6	-9.8
4	☐	10.000	9.361	2940.37	0.0029	P	6.0	-6.4
5	☐	100.000	97.401	29738.94	0.0297	P	2.3	-2.6
6	☐	200.000	201.343	60254.11	0.0614	P	4.1	0.7

y = 3.0503E-004 * x + 1.2806E-005
R = 0.9999
DL = 0.1446 ppb
BEC = 0.04198 ppb

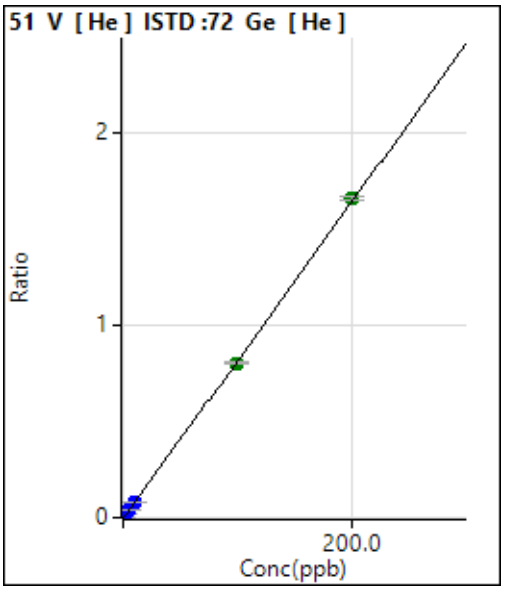
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	351814.55	0.1067	P	3.0	
2	☐	2.000	2.290	474310.84	0.1449	P	1.8	14.5
3	☐	5.000	5.267	634924.31	0.1947	P	2.2	5.3
4	☐	10.000	10.363	899606.12	0.2799	P	2.6	3.6
5	☐	100.000	98.548	5522283.78	1.7540	A	2.6	-1.5
6	☐	200.000	200.698	10697383.80	3.4616	A	1.9	0.3

y = 0.0167 * x + 0.1067
R = 1.0000
DL = 0.5838 ppb
BEC = 6.381 ppb

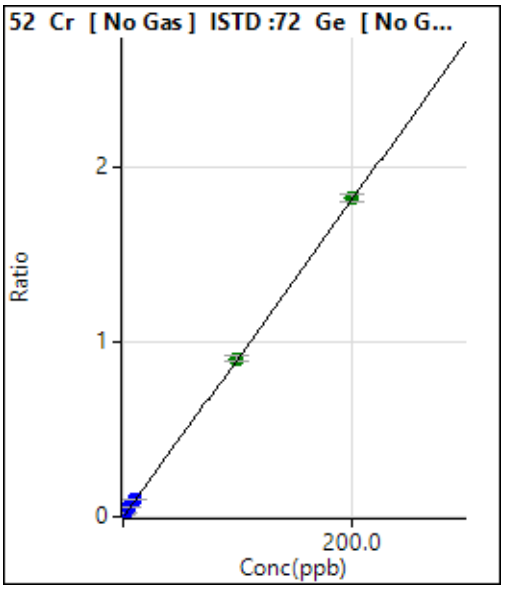
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2979.23	0.0029	P	4.6	
2	☐	2.000	1.877	19104.31	0.0183	P	2.2	-6.1
3	☐	5.000	4.741	43512.45	0.0419	P	1.2	-5.2
4	☐	10.000	9.437	82720.93	0.0806	P	2.9	-5.6
5	☐	100.000	97.331	805335.87	0.8050	A	1.0	-2.7
6	☐	200.000	201.371	1631150.67	1.6624	A	1.2	0.7

y = 0.0082 * x + 0.0029
R = 0.9999
DL = 0.0479 ppb
BEC = 0.3465 ppb

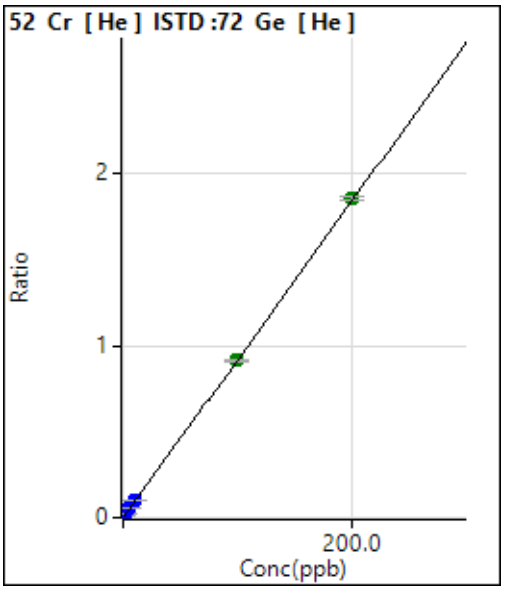
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	20275.07	0.0061	P	3.3	
2	☐	2.000	2.008	79843.04	0.0244	P	2.7	0.4
3	☐	5.000	4.992	168019.77	0.0515	P	3.7	-0.2
4	☐	10.000	9.989	311672.20	0.0970	P	2.5	-0.1
5	☐	100.000	99.225	2859737.46	0.9084	A	3.0	-0.8
6	☐	200.000	200.388	5649475.33	1.8282	A	2.1	0.2

y = 0.0091 * x + 0.0061
R = 1.0000
DL = 0.06687 ppb
BEC = 0.6761 ppb

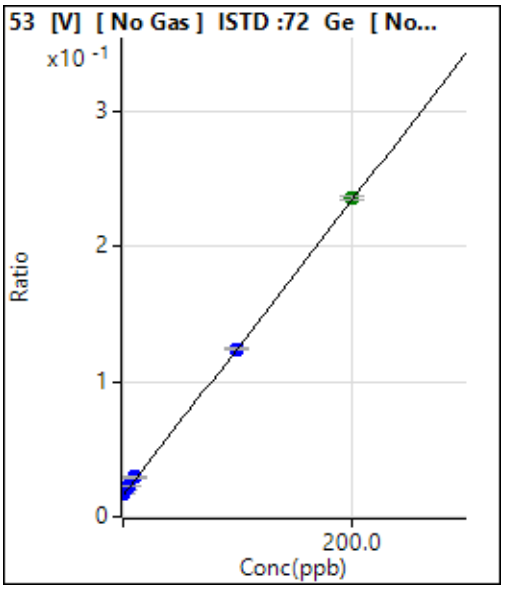
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	8562.80	0.0082	P	3.1	
2	☐	2.000	1.871	26505.62	0.0254	P	4.4	-6.5
3	☐	5.000	4.874	55093.00	0.0531	P	1.9	-2.5
4	☐	10.000	9.721	100218.31	0.0977	P	2.0	-2.8
5	☐	100.000	98.212	912745.90	0.9123	A	0.9	-1.8
6	☐	200.000	200.912	1823243.41	1.8578	A	0.9	0.5

y = 0.0092 * x + 0.0082
R = 0.9999
DL = 0.08228 ppb
BEC = 0.8915 ppb

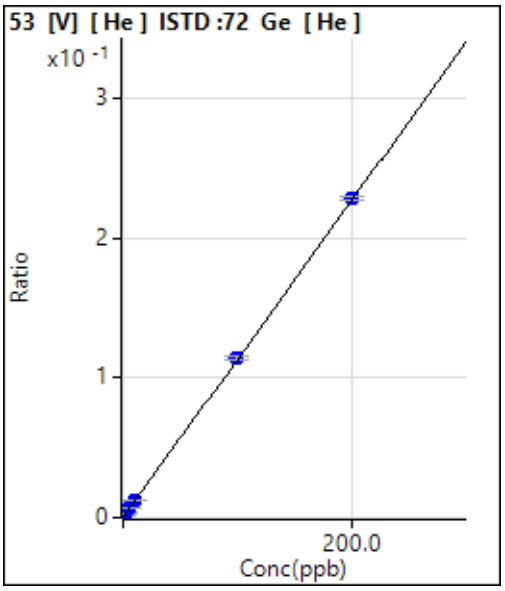
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	56030.18	0.0170	P	3.8	
2	☐	2.000	2.667	65106.11	0.0199	P	2.0	33.4
3	☐	5.000	5.776	75938.10	0.0233	P	1.0	15.5
4	☐	10.000	11.327	94296.75	0.0293	P	2.3	13.3
5	☐	100.000	98.345	391078.42	0.1242	P	1.7	-1.7
6	☐	200.000	200.735	728837.18	0.2358	A	1.6	0.4

y = 0.0011 * x + 0.0170
R = 0.9999
DL = 1.755 ppb
BEC = 15.58 ppb

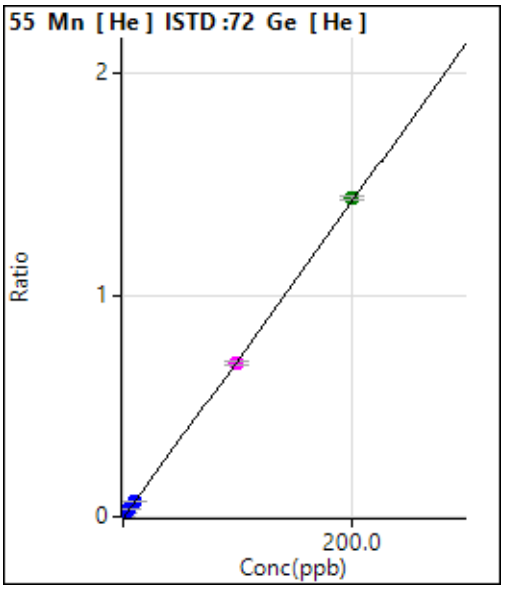
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1410.10	0.0014	P	6.5	
2	☐	2.000	1.830	3570.53	0.0034	P	4.9	-8.5
3	☐	5.000	5.105	7405.46	0.0071	P	4.4	2.1
4	☐	10.000	9.507	12429.17	0.0121	P	5.4	-4.9
5	☐	100.000	99.284	113896.80	0.1138	P	2.9	-0.7
6	☐	200.000	200.382	224143.47	0.2284	P	1.4	0.2

y = 0.0011 * x + 0.0014
R = 1.0000
DL = 0.2333 ppb
BEC = 1.193 ppb

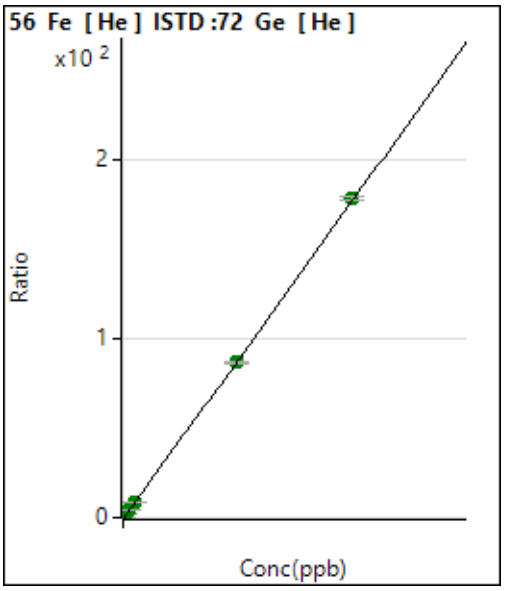
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	516.69	0.0005	P	10.8	
2	☐	2.000	1.907	14701.36	0.0141	P	0.9	-4.6
3	☐	5.000	4.880	36652.22	0.0353	P	2.6	-2.4
4	☐	10.000	9.545	70365.55	0.0686	P	1.4	-4.6
5	☐	100.000	97.077	693468.58	0.6931	M	2.2	-2.9
6	☐	200.000	201.488	1411175.66	1.4381	A	1.1	0.7

y = 0.0071 * x + 4.9521E-004
R = 0.9999
DL = 0.0225 ppb
BEC = 0.06941 ppb

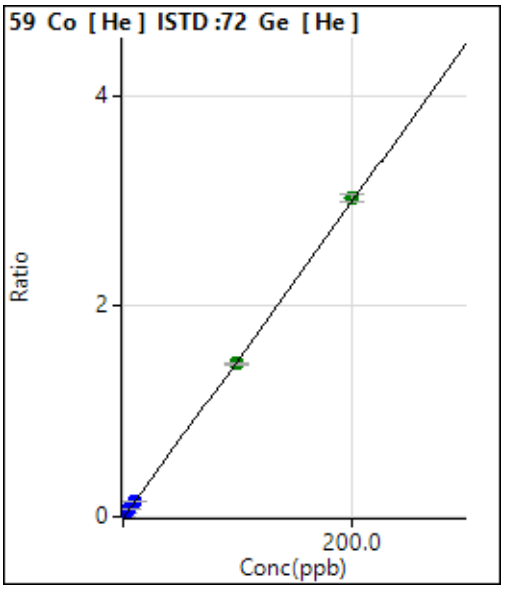
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	14991.76	0.0144	P	1.4	
2	☐	200.000	189.749	1773876.59	1.7017	A	3.6	-5.1
3	☐	500.000	483.995	4482003.16	4.3184	A	1.5	-3.2
4	☐	1000.000	953.028	8706872.16	8.4894	A	2.7	-4.7
5	☐	10000.00	9776.709	86993722.04	86.9556	A	1.8	-2.2
6	☐	20000.00	20114.49	175520504.0	178.886	A	1.2	0.6

y = 0.0089 * x + 0.0144
R = 0.9999
DL = 0.07018 ppb
BEC = 1.616 ppb

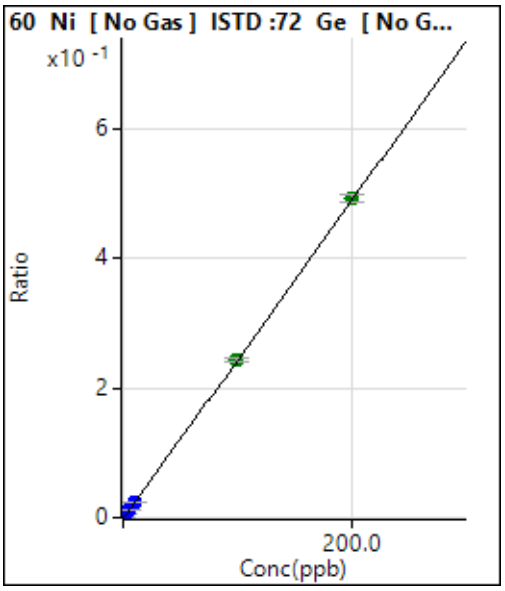
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	340.01	0.0003	P	20.1	
2	☐	2.000	1.857	29408.44	0.0282	P	3.7	-7.1
3	☐	5.000	4.838	75741.20	0.0730	P	2.0	-3.2
4	☐	10.000	9.572	147763.15	0.1441	P	2.8	-4.3
5	☐	100.000	96.970	1457157.53	1.4566	A	1.0	-3.0
6	☐	200.000	201.542	2969345.17	3.0269	A	2.9	0.8

y = 0.0150 * x + 3.2581E-004
R = 0.9998
DL = 0.01308 ppb
BEC = 0.0217 ppb

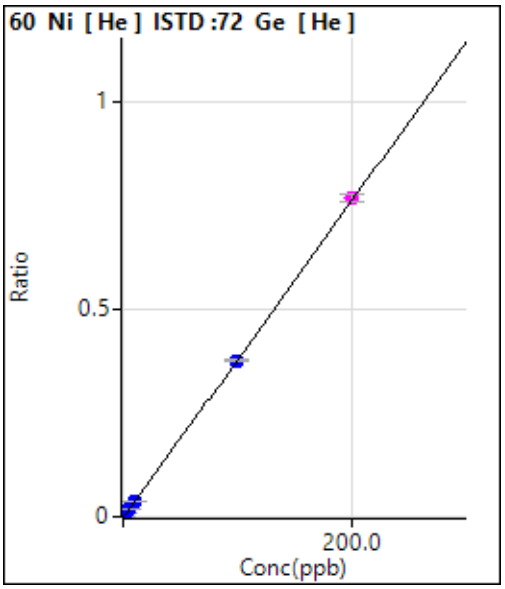
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	880.05	0.0003	P	5.8	
2	☐	2.000	1.993	16883.87	0.0052	P	3.7	-0.4
3	☐	5.000	4.978	40727.20	0.0125	P	2.3	-0.4
4	☐	10.000	9.976	79606.36	0.0248	P	1.2	-0.2
5	☐	100.000	99.067	766753.66	0.2435	A	2.5	-0.9
6	☐	200.000	200.468	1522068.99	0.4925	A	2.1	0.2

y = 0.0025 * x + 2.6690E-004
R = 1.0000
DL = 0.01898 ppb
BEC = 0.1087 ppb

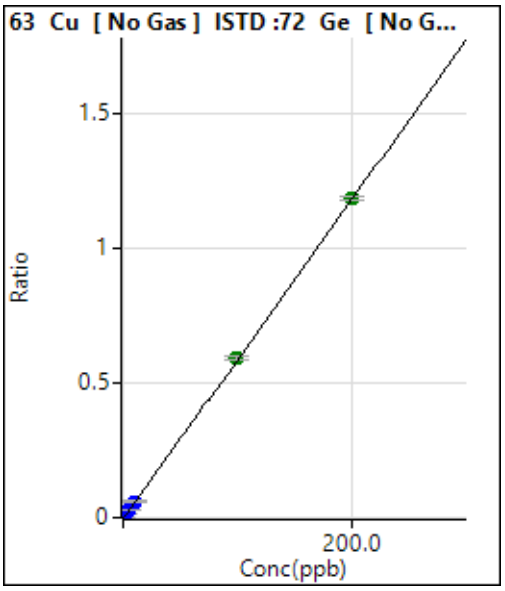
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	453.35	0.0004	P	33.7	
2	☐	2.000	1.946	8199.26	0.0079	P	3.4	-2.7
3	☐	5.000	4.870	19751.14	0.0190	P	2.1	-2.6
4	☐	10.000	9.720	38510.93	0.0376	P	4.1	-2.8
5	☐	100.000	98.203	375649.45	0.3755	P	1.3	-1.8
6	☐	200.000	200.916	753268.58	0.7677	M	2.9	0.5

y = 0.0038 * x + 4.3461E-004
R = 0.9999
DL = 0.115 ppb
BEC = 0.1138 ppb

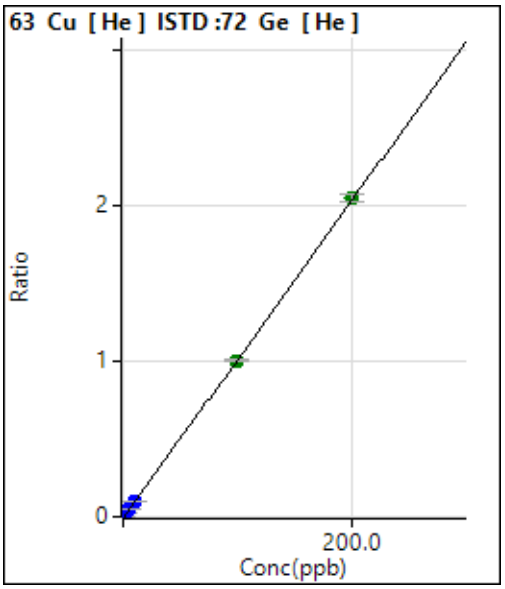
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2070.20	0.0006	P	3.9	
2	☐	2.000	2.028	41359.19	0.0126	P	3.5	1.4
3	☐	5.000	5.116	100838.48	0.0309	P	4.2	2.3
4	☐	10.000	10.058	193490.28	0.0602	P	3.1	0.6
5	☐	100.000	100.196	1870558.20	0.5942	A	3.0	0.2
6	☐	200.000	199.896	3661365.26	1.1847	A	1.5	-0.1

y = 0.0059 * x + 6.2774E-004
R = 1.0000
DL = 0.01233 ppb
BEC = 0.106 ppb

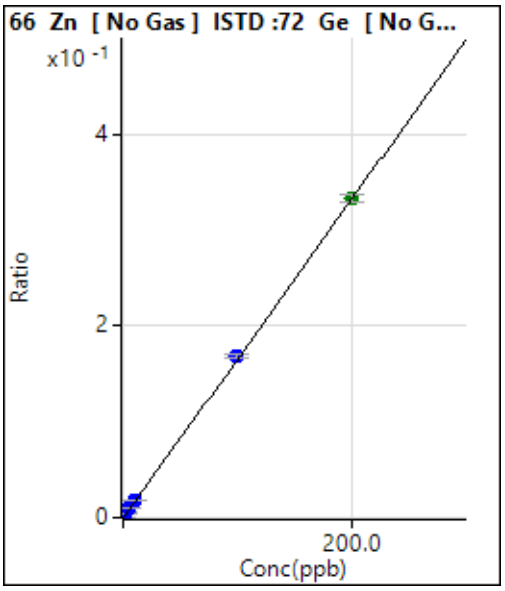
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1160.08	0.0011	P	13.2	
2	☐	2.000	1.941	21807.54	0.0209	P	1.7	-2.9
3	☐	5.000	4.909	53142.83	0.0512	P	1.5	-1.8
4	☐	10.000	9.762	103310.05	0.1007	P	2.8	-2.4
5	☐	100.000	98.477	1006482.80	1.0060	A	2.0	-1.5
6	☐	200.000	200.776	2011731.27	2.0499	A	1.9	0.4

y = 0.0102 * x + 0.0011
R = 1.0000
DL = 0.04313 ppb
BEC = 0.109 ppb

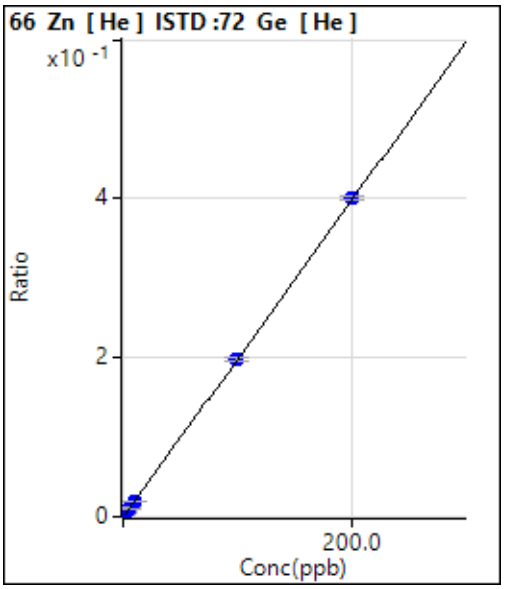
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3210.43	0.0010	P	2.8	
2	☐	2.000	2.382	16166.45	0.0049	P	5.2	19.1
3	☐	5.000	5.056	30651.26	0.0094	P	2.3	1.1
4	☐	10.000	10.019	56780.94	0.0177	P	2.8	0.2
5	☐	100.000	100.698	531294.90	0.1688	P	2.8	0.7
6	☐	200.000	199.645	1030918.22	0.3336	A	2.6	-0.2

y = 0.0017 * x + 9.7333E-004
R = 1.0000
DL = 0.04962 ppb
BEC = 0.5842 ppb

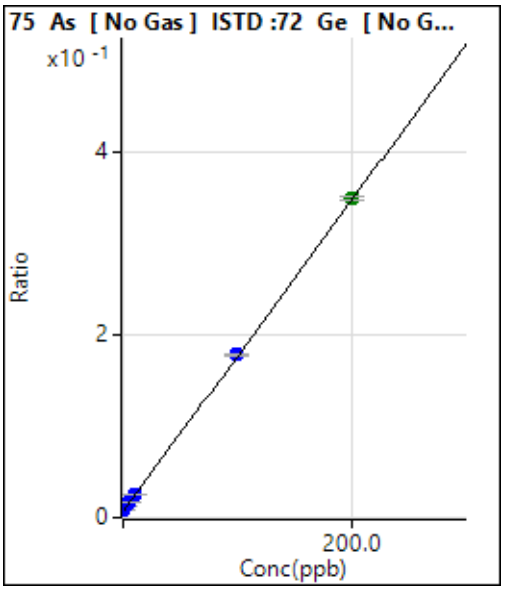
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1353.43	0.0013	P	13.6	
2	☐	2.000	2.320	6171.49	0.0059	P	4.4	16.0
3	☐	5.000	4.734	11138.05	0.0107	P	3.8	-5.3
4	☐	10.000	9.552	20866.16	0.0203	P	1.3	-4.5
5	☐	100.000	99.030	198791.01	0.1987	P	2.7	-1.0
6	☐	200.000	200.511	393490.91	0.4010	P	0.7	0.3

y = 0.0020 * x + 0.0013
R = 1.0000
DL = 0.2657 ppb
BEC = 0.6507 ppb

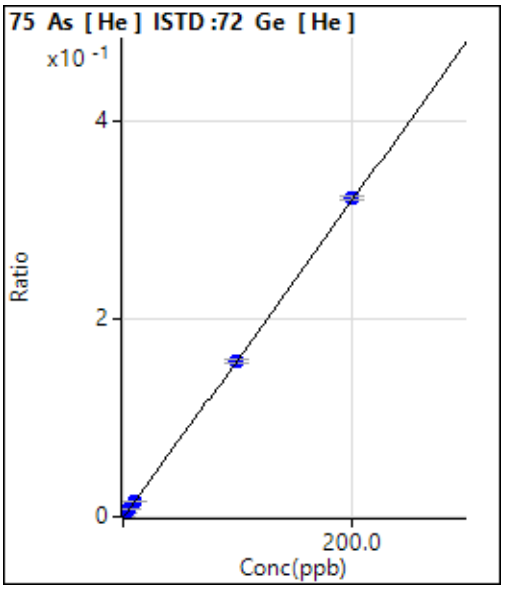
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	28263.13	0.0086	P	2.7	
2	☐	2.000	2.121	39838.41	0.0122	P	2.5	6.0
3	☐	5.000	5.154	56523.64	0.0173	P	2.0	3.1
4	☐	10.000	10.137	82950.93	0.0258	P	2.4	1.4
5	☐	100.000	99.537	559905.97	0.1778	P	2.0	-0.5
6	☐	200.000	200.220	1078657.59	0.3490	A	1.7	0.1

y = 0.0017 * x + 0.0086
R = 1.0000
DL = 0.4094 ppb
BEC = 5.039 ppb

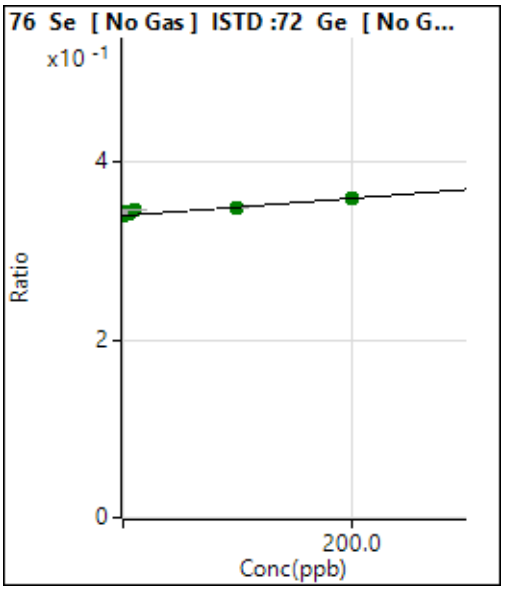
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	300.00	0.0003	P	13.2	
2	☐	2.000	1.880	3449.35	0.0033	P	4.0	-6.0
3	☐	5.000	4.716	8162.48	0.0079	P	1.3	-5.7
4	☐	10.000	9.426	15824.76	0.0154	P	3.3	-5.7
5	☐	100.000	98.200	158120.27	0.1581	P	2.4	-1.8
6	☐	200.000	200.937	317019.74	0.3231	P	1.7	0.5

y = 0.0016 * x + 2.8751E-004
R = 0.9999
DL = 0.07089 ppb
BEC = 0.179 ppb

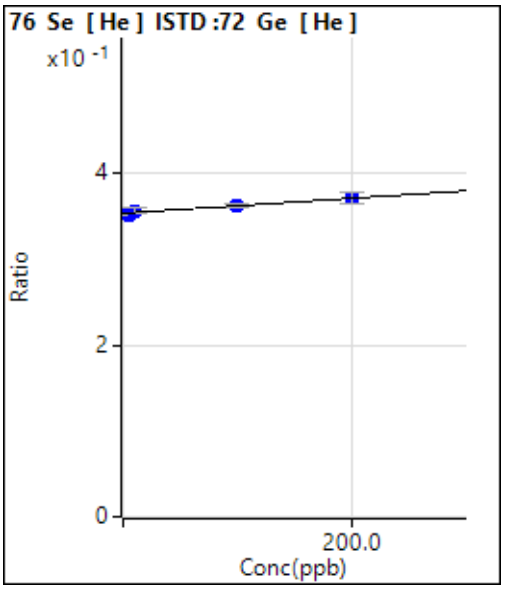
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1119463.34	0.3393	A	0.6	
2	☐	2.000	36.641	1122350.66	0.3430	A	0.5	1732.0
3	☐	5.000	27.761	1115676.78	0.3421	A	0.5	455.2
4	☐	10.000	67.731	1112503.79	0.3460	A	0.1	577.3
5	☐	100.000	94.225	1097931.05	0.3487	A	0.3	-5.8
6	☐	200.000	199.085	1109765.74	0.3590	A	0.3	-0.5

y = 9.9019E-005 * x + 0.3393
R = 0.9563
DL = 56.65 ppb
BEC = 3427 ppb

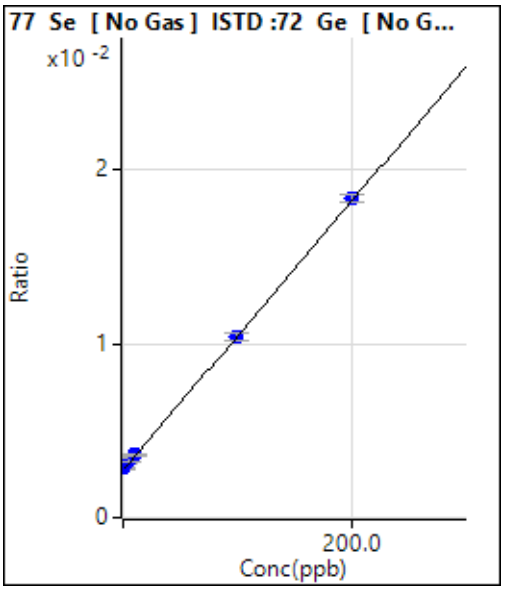
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	368956.84	0.3537	P	0.6	
2	☐	2.000	-10.302	367782.70	0.3528	P	0.4	-615.1
3	☐	5.000	-26.883	364605.76	0.3513	P	0.6	-637.7
4	☐	10.000	34.334	365867.82	0.3567	P	1.4	243.3
5	☐	100.000	94.386	362124.54	0.3620	P	0.9	-5.6
6	☐	200.000	202.510	364311.48	0.3714	P	3.3	1.3

y = 8.7728E-005 * x + 0.3537
R = 0.9775
DL = 67.4 ppb
BEC = 4031 ppb

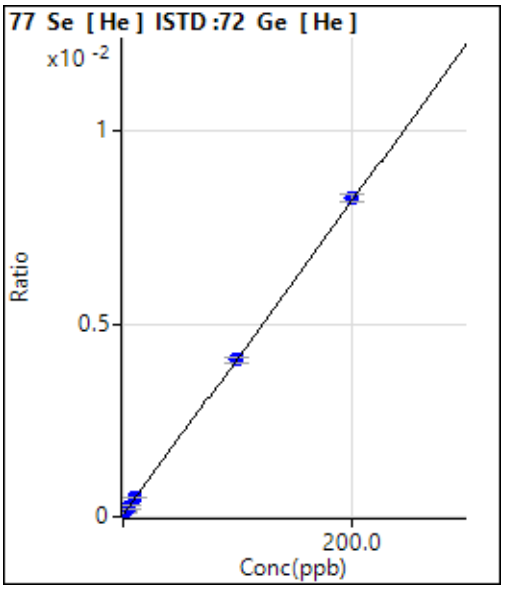
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	9320.02	0.0028	P	2.5	
2	☐	2.000	3.755	10193.97	0.0031	P	1.3	87.7
3	☐	5.000	6.102	10747.79	0.0033	P	6.5	22.0
4	☐	10.000	9.964	11558.43	0.0036	P	1.4	-0.4
5	☐	100.000	97.833	32692.89	0.0104	P	3.8	-2.2
6	☐	200.000	201.040	56734.67	0.0184	P	2.1	0.5

y = 7.7269E-005 * x + 0.0028
R = 0.9999
DL = 2.71 ppb
BEC = 36.56 ppb

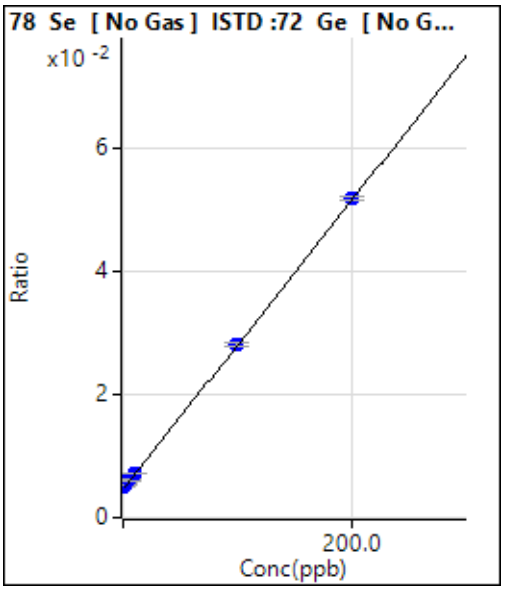
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	96.67	0.0001	P	31.5	
2	☐	2.000	1.019	140.00	0.0001	P	37.3	-49.0
3	☐	5.000	3.961	263.34	0.0003	P	35.9	-20.8
4	☐	10.000	9.632	496.69	0.0005	P	2.6	-3.7
5	☐	100.000	97.784	4070.67	0.0041	P	4.4	-2.2
6	☐	200.000	201.162	8115.82	0.0083	P	1.8	0.6

y = 4.0663E-005 * x + 9.2629E-005
R = 0.9999
DL = 2.151 ppb
BEC = 2.278 ppb

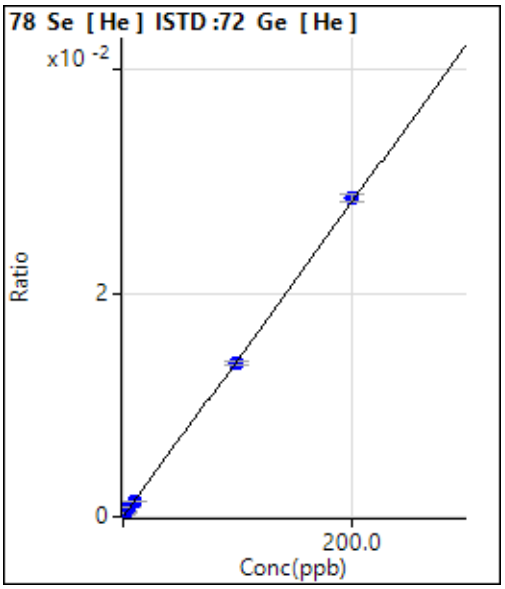
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16053.09	0.0049	P	0.8	
2	☐	2.000	2.364	17741.81	0.0054	P	4.9	18.2
3	☐	5.000	5.246	19878.10	0.0061	P	1.8	4.9
4	☐	10.000	10.014	23186.69	0.0072	P	1.5	0.1
5	☐	100.000	99.193	88516.60	0.0281	P	1.8	-0.8
6	☐	200.000	200.393	160183.22	0.0518	P	1.2	0.2

y = 2.3436E-004 * x + 0.0049
R = 1.0000
DL = 0.5095 ppb
BEC = 20.76 ppb

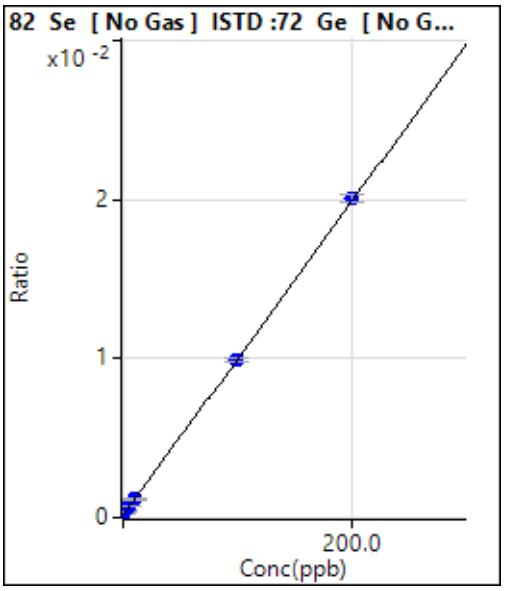
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	153.33	0.0001	P	7.9	
2	☐	2.000	2.006	447.34	0.0004	P	3.8	0.3
3	☐	5.000	4.856	862.03	0.0008	P	9.0	-2.9
4	☐	10.000	9.029	1454.09	0.0014	P	1.1	-9.7
5	☐	100.000	96.500	13731.59	0.0137	P	2.5	-3.5
6	☐	200.000	201.802	27996.01	0.0285	P	2.5	0.9

y = 1.4070E-004 * x + 1.4698E-004
R = 0.9998
DL = 0.2481 ppb
BEC = 1.045 ppb

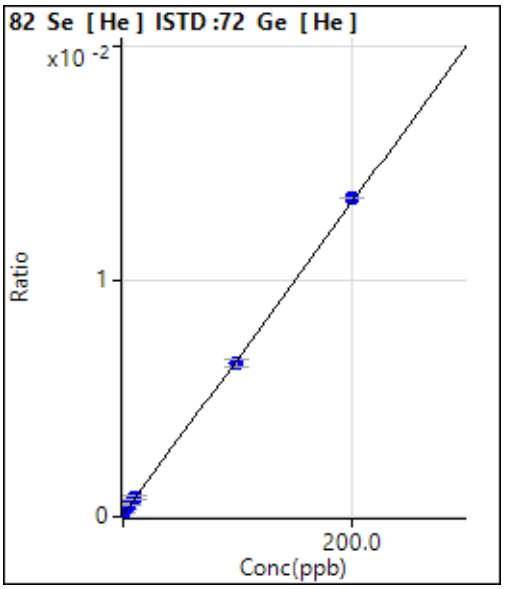
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	803.37	0.0002	P	6.9	
2	☐	2.000	2.028	1453.44	0.0004	P	9.7	1.4
3	☐	5.000	4.831	2350.25	0.0007	P	1.8	-3.4
4	☐	10.000	9.335	3743.92	0.0012	P	6.4	-6.6
5	☐	100.000	97.738	31146.02	0.0099	P	2.5	-2.3
6	☐	200.000	201.168	62122.05	0.0201	P	2.5	0.6

y = 9.8720E-005 * x + 2.4367E-004
R = 0.9999
DL = 0.5117 ppb
BEC = 2.468 ppb

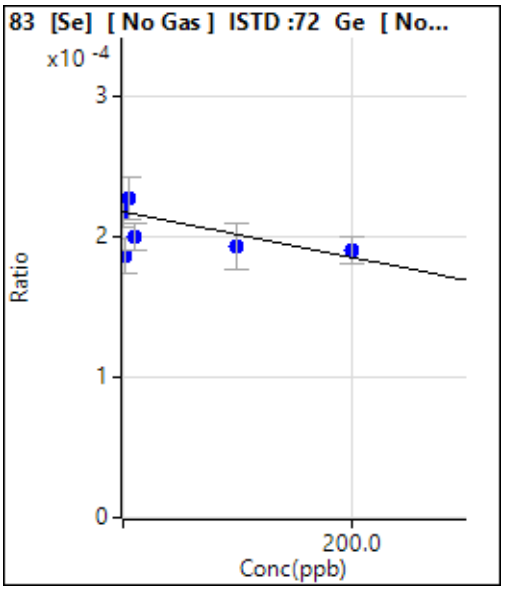
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	166.67	0.0002	P	27.1	
2	☐	2.000	2.420	333.34	0.0003	P	14.9	21.0
3	☐	5.000	5.352	533.35	0.0005	P	11.8	7.0
4	☐	10.000	10.090	850.04	0.0008	P	16.2	0.9
5	☐	100.000	95.964	6515.03	0.0065	P	4.9	-4.0
6	☐	200.000	202.000	13276.71	0.0135	P	0.5	1.0

y = 6.6193E-005 * x + 1.5980E-004
R = 0.9997
DL = 1.965 ppb
BEC = 2.414 ppb

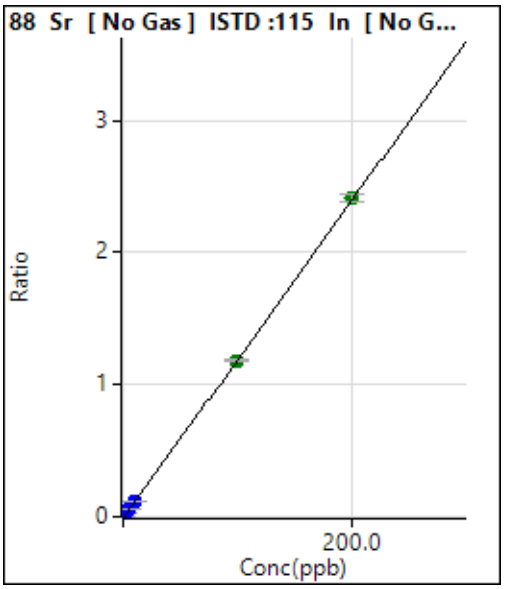
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	716.70	0.0002	P	10.4	
2	☐	2.000	197.250	606.69	0.0002	P	13.4	9762.5
3	☐	5.000	-59.073	740.03	0.0002	P	13.0	-1281.
4	☐	10.000	111.637	640.03	0.0002	P	9.4	1016.4
5	☐	100.000	151.006	606.69	0.0002	P	17.0	51.0
6	☐	200.000	169.065	586.69	0.0002	P	10.5	-15.5

y = -1.6187E-007 * x + 2.1735E-004
R = -0.4800
DL = -418.8 ppb
BEC = -1343 ppb

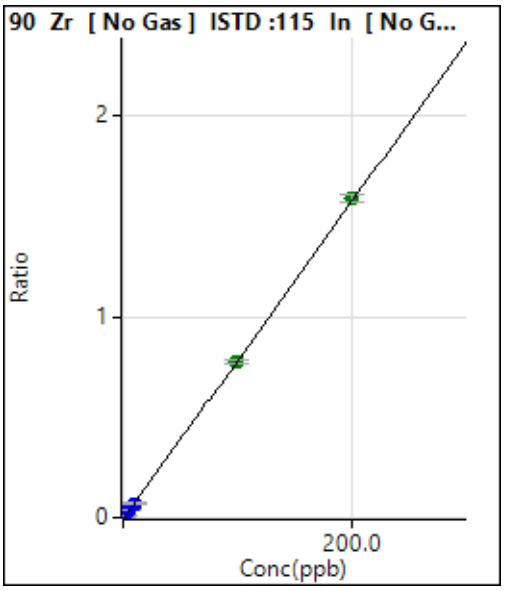
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1990.18	0.0005	P	5.6	
2	☐	2.000	1.950	99790.06	0.0239	P	1.3	-2.5
3	☐	5.000	4.916	244991.12	0.0595	P	2.3	-1.7
4	☐	10.000	9.706	483067.10	0.1171	P	2.7	-2.9
5	☐	100.000	98.469	4692720.97	1.1834	A	2.0	-1.5
6	☐	200.000	200.783	9306599.65	2.4125	A	2.7	0.4

y = 0.0120 * x + 4.7766E-004
R = 1.0000
DL = 0.006724 ppb
BEC = 0.03976 ppb

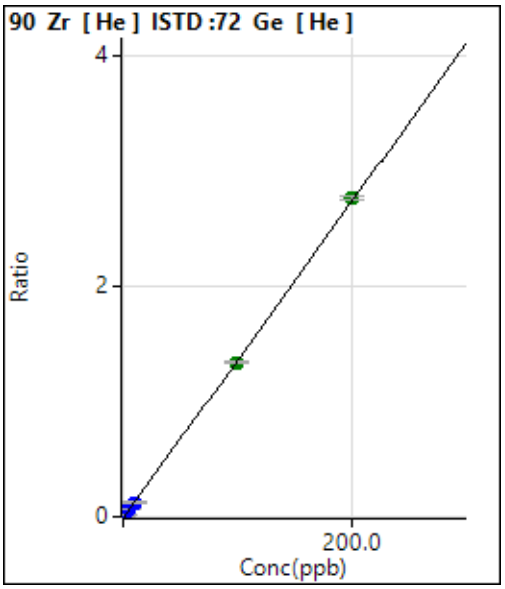
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1450.10	0.0003	P	8.8	
2	☐	2.000	1.627	55182.83	0.0132	P	3.0	-18.6
3	☐	5.000	4.394	144449.86	0.0351	P	1.7	-12.1
4	☐	10.000	9.001	295151.70	0.0715	P	3.2	-10.0
5	☐	100.000	97.781	3067690.58	0.7736	A	2.4	-2.2
6	☐	200.000	201.178	6139120.12	1.5913	A	2.2	0.6

y = 0.0079 * x + 3.4818E-004
R = 0.9999
DL = 0.01162 ppb
BEC = 0.04403 ppb

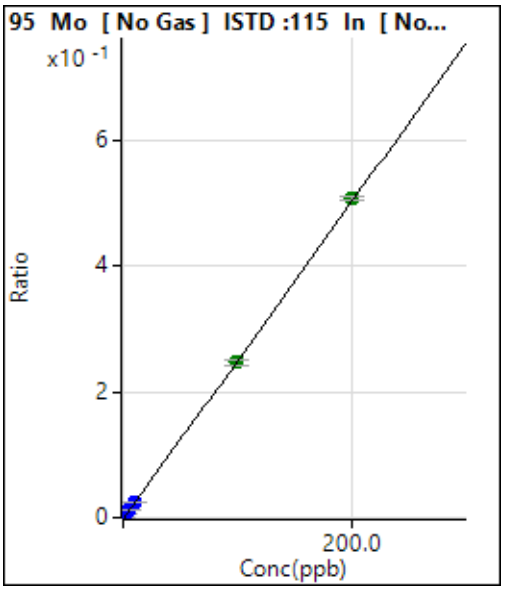
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1510.11	0.0014	P	10.1	
2	☐	2.000	1.648	25123.74	0.0241	P	2.4	-17.6
3	☐	5.000	4.370	63850.74	0.0615	P	2.2	-12.6
4	☐	10.000	8.996	128325.32	0.1251	P	2.3	-10.0
5	☐	100.000	97.346	1340201.65	1.3396	A	1.8	-2.7
6	☐	200.000	201.396	2718373.19	2.7699	A	1.7	0.7

y = 0.0137 * x + 0.0014
R = 0.9999
DL = 0.03189 ppb
BEC = 0.1053 ppb

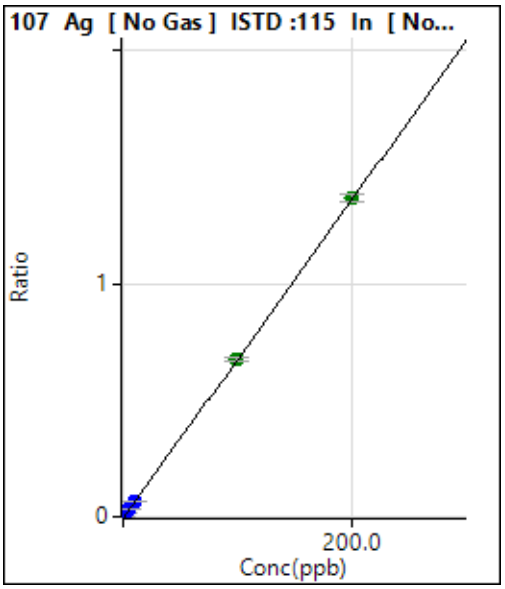
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	216.68	0.0001	P	11.8	
2	☐	2.000	1.893	20158.73	0.0048	P	1.5	-5.4
3	☐	5.000	4.865	50739.26	0.0123	P	2.5	-2.7
4	☐	10.000	9.478	98911.36	0.0240	P	3.0	-5.2
5	☐	100.000	97.610	976973.66	0.2464	A	2.6	-2.4
6	☐	200.000	201.226	1959391.01	0.5079	A	1.7	0.6

y = 0.0025 * x + 5.2046E-005
R = 0.9999
DL = 0.007327 ppb
BEC = 0.02062 ppb

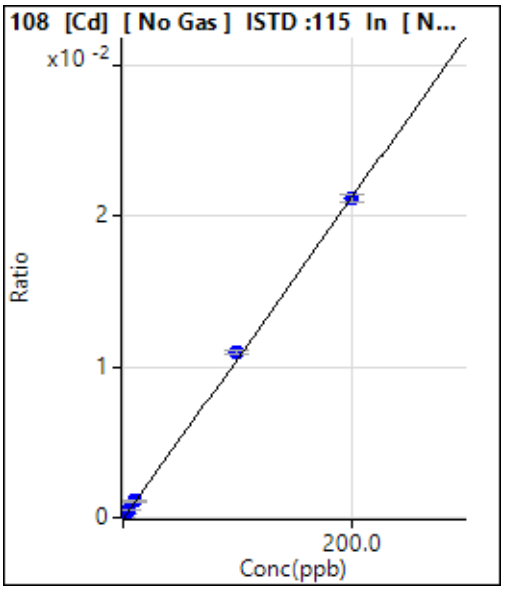
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	906.72	0.0002	P	7.6	
2	☐	2.000	1.975	57189.17	0.0137	P	2.5	-1.3
3	☐	5.000	4.980	140802.62	0.0342	P	2.9	-0.4
4	☐	10.000	9.738	275210.62	0.0667	P	1.9	-2.6
5	☐	100.000	99.306	2688852.25	0.6781	A	2.5	-0.7
6	☐	200.000	200.361	5277365.55	1.3679	A	1.9	0.2

y = 0.0068 * x + 2.1763E-004
R = 1.0000
DL = 0.007273 ppb
BEC = 0.03188 ppb

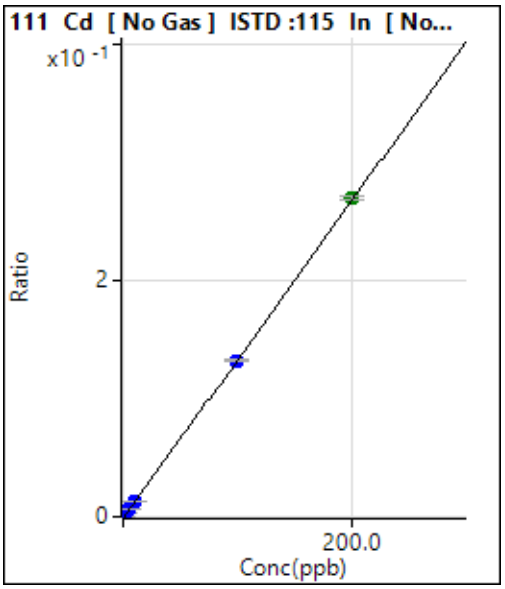
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6.67	0.0000	P	86.6	
2	☐	2.000	2.067	926.72	0.0002	P	4.8	3.3
3	☐	5.000	4.985	2193.55	0.0005	P	9.9	-0.3
4	☐	10.000	10.275	4527.49	0.0011	P	3.7	2.7
5	☐	100.000	102.873	43507.95	0.0110	P	2.3	2.9
6	☐	200.000	198.549	81692.55	0.0212	P	2.5	-0.7

y = 1.0664E-004 * x + 1.6116E-006
R = 0.9999
DL = 0.03926 ppb
BEC = 0.01511 ppb

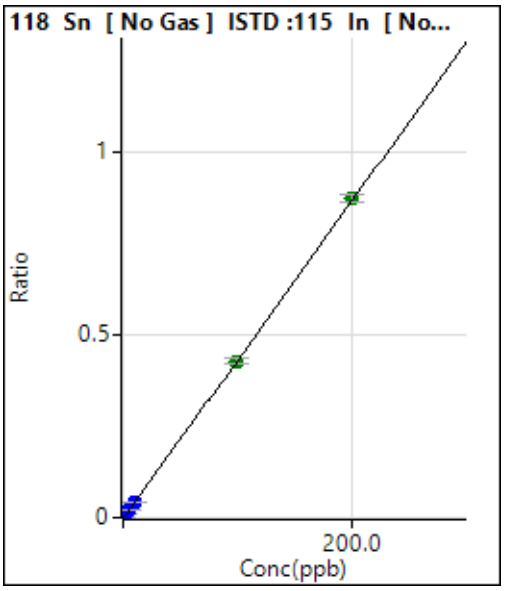
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	19.51	0.0000	P	51.4	
2	☐	2.000	1.914	10760.98	0.0026	P	4.4	-4.3
3	☐	5.000	4.758	26327.54	0.0064	P	4.2	-4.8
4	☐	10.000	9.555	52997.61	0.0128	P	2.9	-4.5
5	☐	100.000	98.426	524493.35	0.1323	P	1.9	-1.6
6	☐	200.000	200.816	1041089.01	0.2698	A	1.8	0.4

y = 0.0013 * x + 4.6769E-006
R = 1.0000
DL = 0.005365 ppb
BEC = 0.003481 ppb

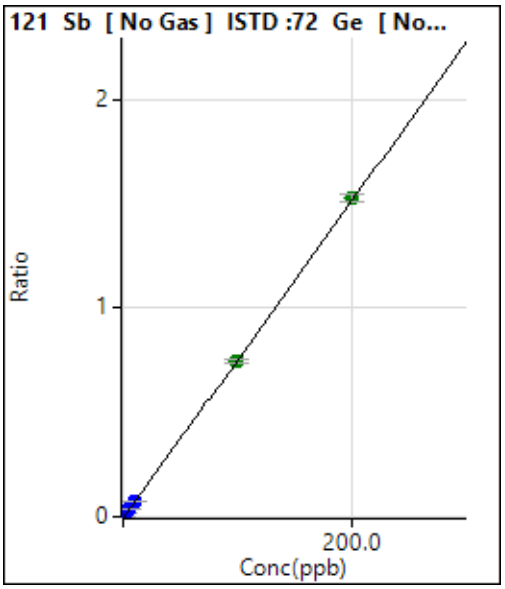
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5481.24	0.0013	P	8.3	
2	☐	2.000	2.015	41996.77	0.0101	P	4.1	0.7
3	☐	5.000	4.872	92433.52	0.0225	P	2.8	-2.6
4	☐	10.000	9.594	177258.84	0.0430	P	2.6	-4.1
5	☐	100.000	98.291	1696947.11	0.4280	A	2.9	-1.7
6	☐	200.000	200.878	3368820.47	0.8733	A	2.5	0.4

y = 0.0043 * x + 0.0013
R = 0.9999
DL = 0.07498 ppb
BEC = 0.3028 ppb

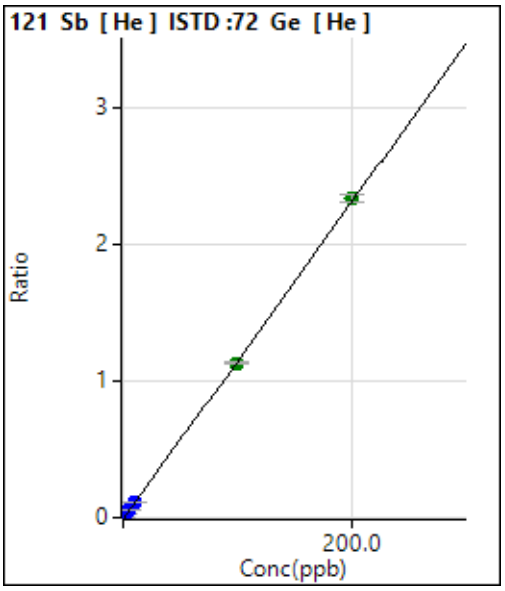
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	523.35	0.0002	P	12.0	
2	☐	2.000	1.960	49302.00	0.0151	P	5.5	-2.0
3	☐	5.000	4.824	120221.25	0.0369	P	2.8	-3.5
4	☐	10.000	9.750	238961.72	0.0744	P	3.0	-2.5
5	☐	100.000	97.989	2348183.87	0.7458	A	2.4	-2.0
6	☐	200.000	201.023	4727333.47	1.5299	A	3.0	0.5

y = 0.0076 * x + 1.5879E-004
R = 0.9999
DL = 0.007498 ppb
BEC = 0.02087 ppb

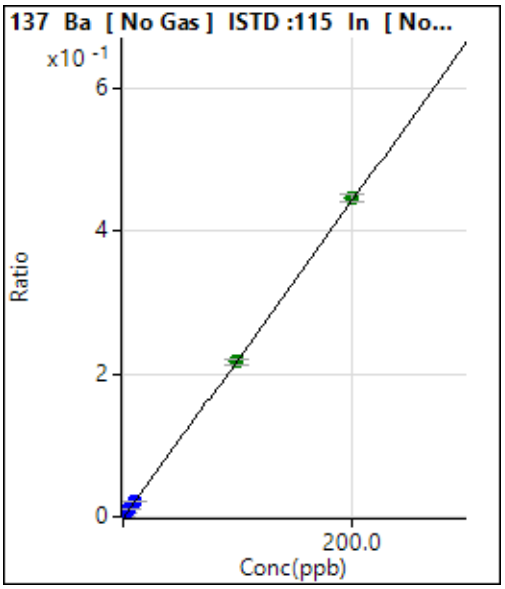
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	226.67	0.0002	P	36.6	
2	☐	2.000	1.902	23223.98	0.0223	P	1.2	-4.9
3	☐	5.000	4.684	56604.18	0.0545	P	1.3	-6.3
4	☐	10.000	9.397	111993.38	0.1092	P	1.6	-6.0
5	☐	100.000	97.297	1128970.45	1.1285	A	1.6	-2.7
6	☐	200.000	201.390	2292306.00	2.3356	A	2.0	0.7

y = 0.0116 * x + 2.1721E-004
R = 0.9999
DL = 0.02058 ppb
BEC = 0.01873 ppb

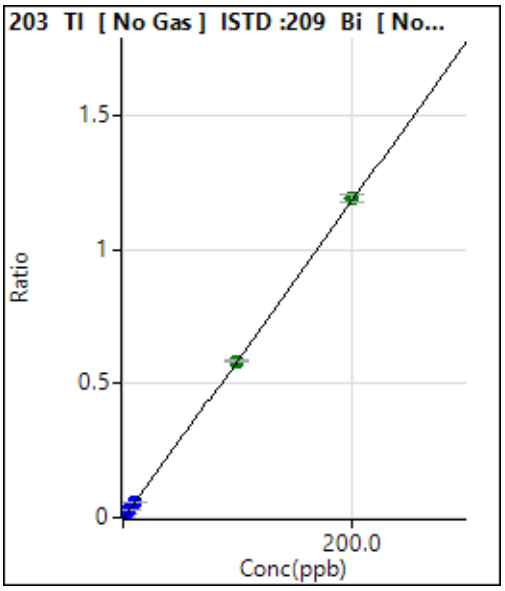
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	760.04	0.0002	P	14.9	
2	☐	2.000	1.816	17605.34	0.0042	P	0.3	-9.2
3	☐	5.000	4.931	45820.19	0.0111	P	3.7	-1.4
4	☐	10.000	9.430	87178.08	0.0211	P	2.2	-5.7
5	☐	100.000	97.788	861914.75	0.2174	A	3.1	-2.2
6	☐	200.000	201.138	1724119.04	0.4469	A	2.5	0.6

y = 0.0022 * x + 1.8260E-004
R = 0.9999
DL = 0.03664 ppb
BEC = 0.08221 ppb

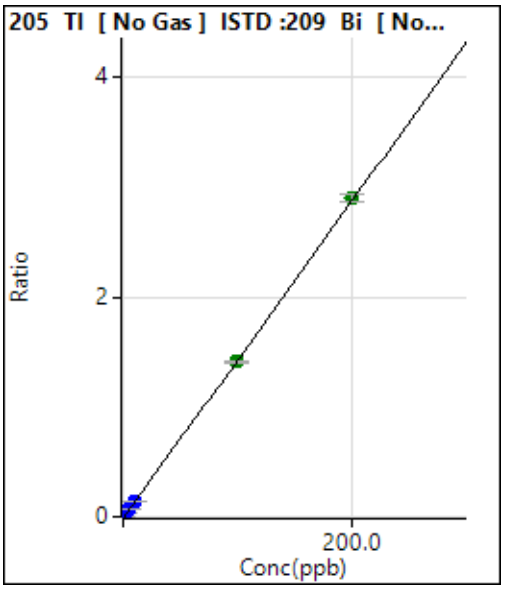
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	686.70	0.0001	P	7.9	
2	☐	2.000	1.878	51559.13	0.0113	P	1.6	-6.1
3	☐	5.000	4.867	132060.10	0.0290	P	1.2	-2.7
4	☐	10.000	9.573	258335.06	0.0569	P	2.2	-4.3
5	☐	100.000	98.180	2545678.35	0.5819	A	1.3	-1.8
6	☐	200.000	200.936	5053322.84	1.1907	A	2.2	0.5

y = 0.0059 * x + 1.4995E-004
R = 0.9999
DL = 0.005971 ppb
BEC = 0.02531 ppb

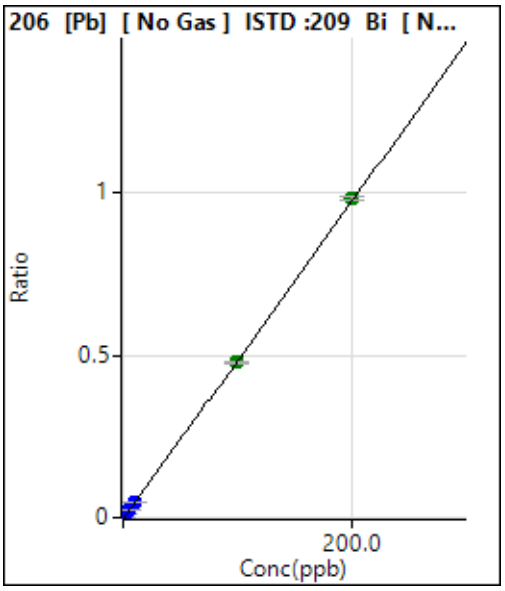
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1683.48	0.0004	P	3.6	
2	☐	2.000	1.862	124524.90	0.0272	P	1.9	-6.9
3	☐	5.000	4.695	310434.26	0.0681	P	0.4	-6.1
4	☐	10.000	9.427	619773.74	0.1364	P	2.0	-5.7
5	☐	100.000	97.754	6175033.03	1.4114	A	1.2	-2.2
6	☐	200.000	201.160	12325266.07	2.9040	A	2.0	0.6

y = 0.0144 * x + 3.6772E-004
R = 0.9999
DL = 0.002714 ppb
BEC = 0.02548 ppb

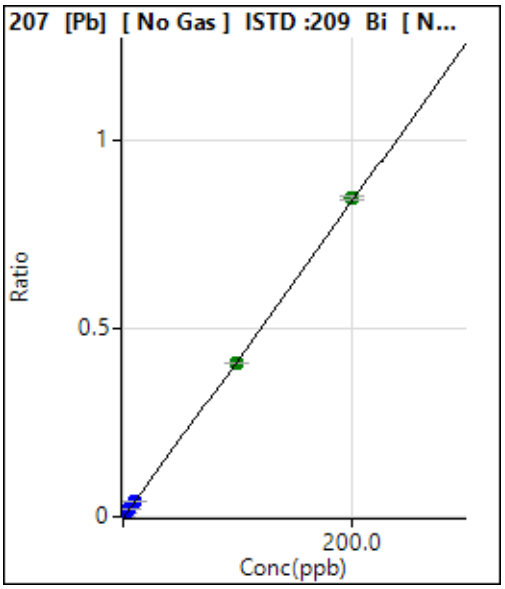
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	863.38	0.0002	P	3.5	
2	☐	2.000	1.922	43783.01	0.0096	P	1.5	-3.9
3	☐	5.000	4.752	106649.73	0.0234	P	1.0	-5.0
4	☐	10.000	9.660	215252.90	0.0474	P	1.9	-3.4
5	☐	100.000	97.850	2092525.33	0.4783	A	1.0	-2.2
6	☐	200.000	201.099	4171266.29	0.9827	A	1.5	0.5

y = 0.0049 * x + 1.8862E-004
R = 0.9999
DL = 0.004023 ppb
BEC = 0.0386 ppb

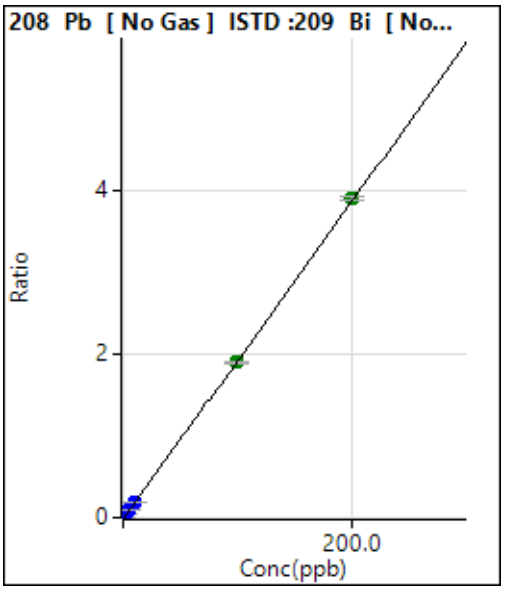
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	843.38	0.0002	P	4.0	
2	☐	2.000	1.879	36941.19	0.0081	P	0.5	-6.0
3	☐	5.000	4.771	92169.32	0.0202	P	0.9	-4.6
4	☐	10.000	9.638	184812.99	0.0407	P	1.8	-3.6
5	☐	100.000	97.105	1786028.83	0.4082	A	1.0	-2.9
6	☐	200.000	201.473	3594051.93	0.8468	A	1.7	0.7

y = 0.0042 * x + 1.8410E-004
R = 0.9999
DL = 0.005242 ppb
BEC = 0.04381 ppb

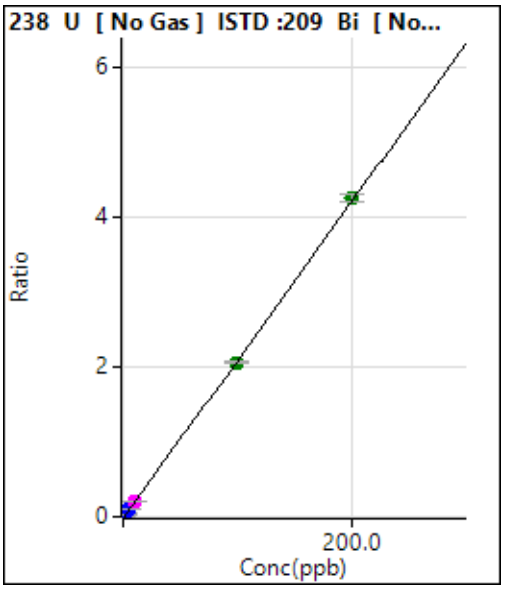
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3843.65	0.0008	P	4.3	
2	☐	2.000	1.896	171943.97	0.0376	P	1.5	-5.2
3	☐	5.000	4.797	427826.10	0.0939	P	0.9	-4.1
4	☐	10.000	9.636	852958.08	0.1878	P	1.6	-3.6
5	☐	100.000	97.681	8294432.84	1.8958	A	0.9	-2.3
6	☐	200.000	201.184	16568693.51	3.9037	A	1.7	0.6

y = 0.0194 * x + 8.3968E-004
R = 0.9999
DL = 0.005553 ppb
BEC = 0.04328 ppb

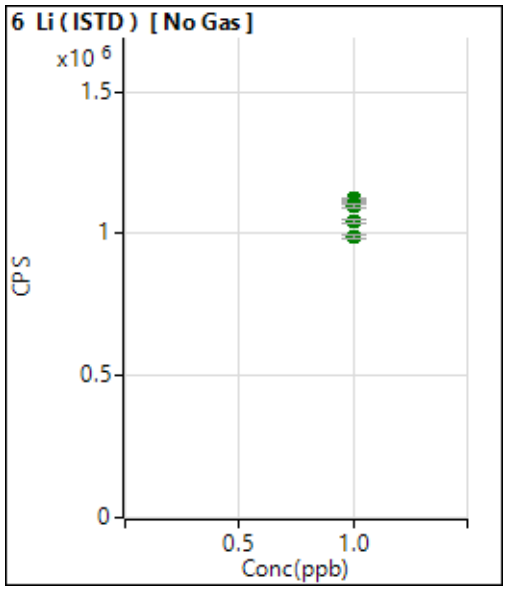
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Min Conc: <None>



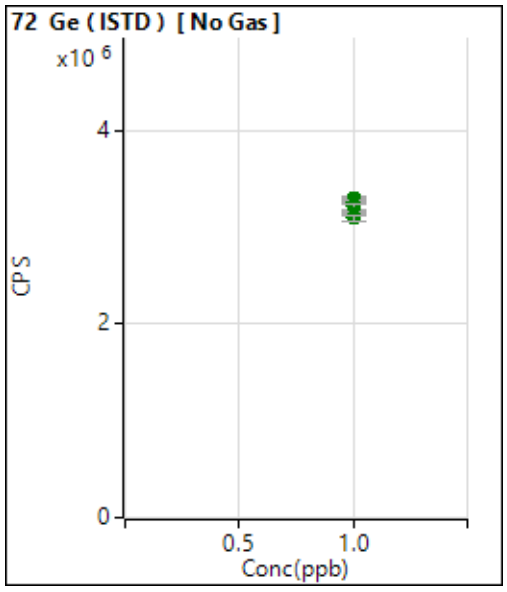
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	526.69	0.0001	P	15.0	
2	☐	2.000	1.824	176623.92	0.0386	P	1.1	-8.8
3	☐	5.000	4.572	440271.91	0.0966	P	1.3	-8.6
4	☐	10.000	9.230	885730.17	0.1950	M	2.1	-7.7
5	☐	100.000	97.352	8993441.33	2.0555	A	0.9	-2.6
6	☐	200.000	201.375	18043014.73	4.2518	A	3.0	0.7

y = 0.0211 * x + 1.1520E-004
R = 0.9999
DL = 0.002453 ppb
BEC = 0.005456 ppb

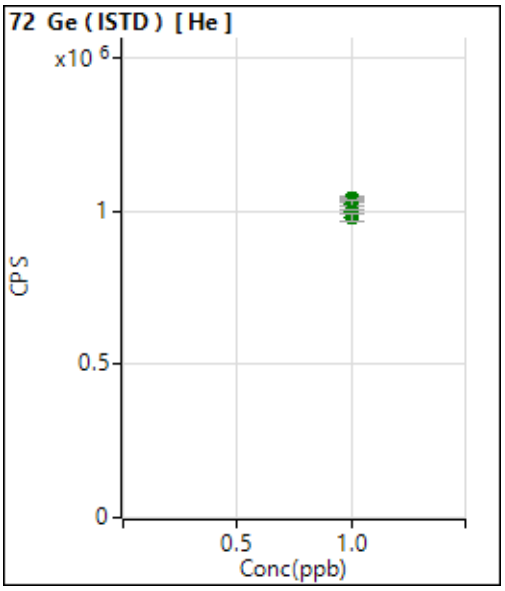
Weight: <None>
Min Conc: <None>



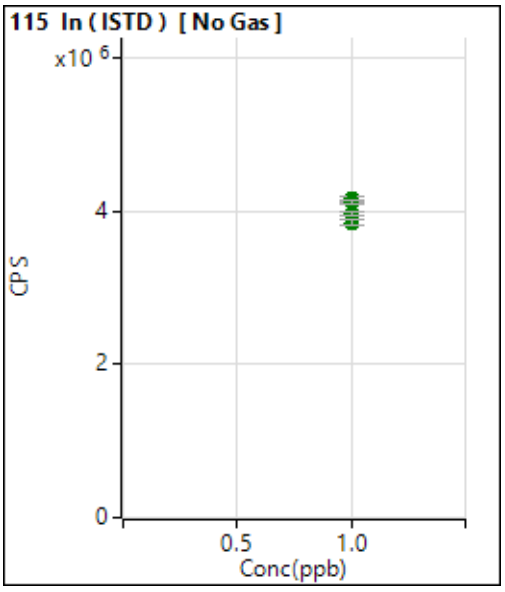
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1125076.60		A	0.4	
2	☐	1.000		1122987.17		A	0.8	
3	☐	1.000		1105235.32		A	0.7	
4	☐	1.000		1096883.57		A	1.3	
5	☐	1.000		1042508.09		A	1.3	
6	☐	1.000		988240.79		A	1.3	



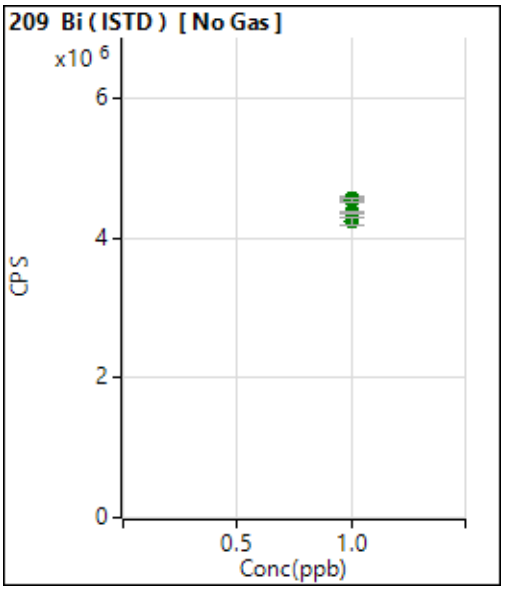
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		3298964.12		A	1.3	
2	☐	1.000		3272563.91		A	1.1	
3	☐	1.000		3261454.95		A	1.4	
4	☐	1.000		3214987.56		A	1.8	
5	☐	1.000		3148977.76		A	1.1	
6	☐	1.000		3090845.06		A	1.5	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1043230.06		A	0.3	
2	☐	1.000		1042553.45		A	0.8	
3	☐	1.000		1037864.33		A	0.8	
4	☐	1.000		1025904.15		A	1.9	
5	☐	1.000		1000423.79		A	0.9	
6	☐	1.000		981269.18		A	2.1	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4167370.39		A	1.3	
2	☐	1.000		4175077.82		A	0.6	
3	☐	1.000		4116036.71		A	0.8	
4	☐	1.000		4127035.82		A	1.1	
5	☐	1.000		3966237.89		A	1.4	
6	☐	1.000		3858721.04		A	1.5	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4579163.79		A	1.7	
2	☐	1.000		4571329.20		A	0.4	
3	☐	1.000		4555967.12		A	0.8	
4	☐	1.000		4542967.54		A	1.0	
5	☐	1.000		4375299.83		A	0.6	
6	☐	1.000		4245386.29		A	2.1	

Calibration Blank Report

Sample Table

Sample Name	CAL BLK
Data File Name	010CALB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060724A.b
Acq Date Time	2024-06-07T10:41:58-05:00
Sample Type	CalBlk
Level	1
Dilution	1
Comment	

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Li	7	1	No Gas	63072	0.00
Be	9	1	No Gas	45	49.38
V	51	2	He	2979	0.17
Cr	52	2	He	8563	0.04
Fe	56	2	He	14992	0.01
Se	78	2	He	153	5.20
As	75	2	He	300	4.49
Ca	44	2	He	783	2.47
Na	23	2	He	70345	0.00
Mg	24	2	He	483	2.15
K	39	2	He	84512	0.00
Mn	55	2	He	517	2.13
Co	59	2	He	340	5.99
Ni	60	2	He	453	7.43
Cu	63	2	He	1160	1.11
Zn	66	2	He	1353	1.02
Al	27	2	He	1557	0.99
B	11	1	No Gas	15116	0.03
Al	27	1	No Gas	52853	0.00
Si	28	1	No Gas	639606	0.00
Ag	107	1	No Gas	907	0.79
Cd	111	1	No Gas	20	262.86
Sr	88	1	No Gas	1990	0.26
Mo	95	1	No Gas	217	4.92
Sn	118	1	No Gas	5481	0.17
Sb	121	1	No Gas	523	2.08
Ba	137	1	No Gas	760	1.81
Tl	205	1	No Gas	1683	0.18
Tl	203	1	No Gas	687	1.21
Pb	208	1	No Gas	3844	0.08
U	238	1	No Gas	527	2.53
Ca	43	2	He	67	25.98
Sb	121	2	He	227	16.21
Ti	47	2	He	13	859.23
Cu	63	1	No Gas	2070	0.12

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD

Calibration Blank Report

Li	6	1	No Gas	1125077	0.37
Ge	72	2	He	1043230	0.33
Ge	72	1	No Gas	3298964	1.30
In	115	1	No Gas	4167370	1.31

Calibration Blank Report

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Bi	209	1	No Gas	4579164	1.73

Calibration Standard Report

Sample Table

Sample Name	2/10/200
Data File Name	011CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060724A.b
Acq Date Time	2024-06-07T10:44:40-05:00
Sample Type	CalStd
Level	2
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	8281	0.03
V	51	2	He	19104	0.01
Cr	52	2	He	26506	0.01
Fe	56	2	He	1773877	0.00
Se	78	2	He	447	0.72
As	75	2	He	3449	0.14
Ca	44	2	He	11188	0.01
Na	23	2	He	319451	0.00
Mg	24	2	He	158192	0.00
K	39	2	He	267289	0.00
Mn	55	2	He	14701	0.00
Co	59	2	He	29408	0.01
Ni	60	2	He	8199	0.03
Cu	63	2	He	21808	0.01
Zn	66	2	He	6171	0.06
Al	27	2	He	2530	0.22
B	11	1	No Gas	39007	0.00
Al	27	1	No Gas	92427	0.00
Si	28	1	No Gas	638117	0.00
Ag	107	1	No Gas	57189	0.00
Cd	111	1	No Gas	10761	0.04
Sr	88	1	No Gas	99790	0.00
Mo	95	1	No Gas	20159	0.01
Sn	118	1	No Gas	41997	0.01
Sb	121	1	No Gas	49302	0.01
Ba	137	1	No Gas	17605	0.00
Tl	205	1	No Gas	124525	0.00
Tl	203	1	No Gas	51559	0.00
Pb	208	1	No Gas	171944	0.00
U	238	1	No Gas	176624	0.00
Ca	43	2	He	603	3.17
Sb	121	2	He	23224	0.01
Cu	63	1	No Gas	41359	0.01

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1122987	0.77	1125077	99.81	70	120	
Ge	72	2	He	1042553	0.81	1043230	99.94	70	120	
Ge	72	1	No Gas	3272564	1.05	3298964	99.20	70	120	

Calibration Standard Report

In	115	1	No Gas	4175078	0.61	4167370	100.18	70	120	
Bi	209	1	No Gas	4571329	0.43	4579164	99.83	70	120	

Calibration Standard Report

Sample Table

Sample Name	5/25/500
Data File Name	012CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060724A.b
Acq Date Time	2024-06-07T10:47:22-05:00
Sample Type	CalStd
Level	3
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	20396	0.01
V	51	2	He	43512	0.00
Cr	52	2	He	55093	0.00
Fe	56	2	He	4482003	0.00
Se	78	2	He	862	1.13
As	75	2	He	8162	0.02
Ca	44	2	He	26736	0.01
Na	23	2	He	696686	0.00
Mg	24	2	He	396949	0.00
K	39	2	He	546354	0.00
Mn	55	2	He	36652	0.01
Co	59	2	He	75741	0.00
Ni	60	2	He	19751	0.01
Cu	63	2	He	53143	0.00
Zn	66	2	He	11138	0.03
Al	27	2	He	4014	0.19
B	11	1	No Gas	75955	0.00
Al	27	1	No Gas	147089	0.00
Si	28	1	No Gas	759782	0.00
Ag	107	1	No Gas	140803	0.00
Cd	111	1	No Gas	26328	0.01
Sr	88	1	No Gas	244991	0.00
Mo	95	1	No Gas	50739	0.00
Sn	118	1	No Gas	92434	0.00
Sb	121	1	No Gas	120221	0.00
Ba	137	1	No Gas	45820	0.01
Tl	205	1	No Gas	310434	0.00
Tl	203	1	No Gas	132060	0.00
Pb	208	1	No Gas	427826	0.00
U	238	1	No Gas	440272	0.00
Ca	43	2	He	1613	0.55
Sb	121	2	He	56604	0.00
Cu	63	1	No Gas	100838	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1105235	0.66	1125077	98.24	70	120	
Ge	72	2	He	1037864	0.79	1043230	99.49	70	120	
Ge	72	1	No Gas	3261455	1.39	3298964	98.86	70	120	

Calibration Standard Report

In	115	1	No Gas	4116037	0.82	4167370	98.77	70	120	
Bi	209	1	No Gas	4555967	0.82	4579164	99.49	70	120	

Calibration Standard Report

Sample Table

Sample Name	10/50/100
Data File Name	013CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060724A.b
Acq Date Time	2024-06-07T10:50:02-05:00
Sample Type	CalStd
Level	4
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	41121	0.00
V	51	2	He	82721	0.00
Cr	52	2	He	100218	0.00
Fe	56	2	He	8706872	0.00
Se	78	2	He	1454	0.17
As	75	2	He	15825	0.01
Ca	44	2	He	49940	0.01
Na	23	2	He	1306921	0.00
Mg	24	2	He	777585	0.00
K	39	2	He	986886	0.00
Mn	55	2	He	70366	0.00
Co	59	2	He	147763	0.00
Ni	60	2	He	38511	0.01
Cu	63	2	He	103310	0.00
Zn	66	2	He	20866	0.01
Al	27	2	He	6485	0.09
B	11	1	No Gas	136104	0.00
Al	27	1	No Gas	239824	0.00
Si	28	1	No Gas	945140	0.00
Ag	107	1	No Gas	275211	0.00
Cd	111	1	No Gas	52998	0.00
Sr	88	1	No Gas	483067	0.00
Mo	95	1	No Gas	98911	0.00
Sn	118	1	No Gas	177259	0.00
Sb	121	1	No Gas	238962	0.00
Ba	137	1	No Gas	87178	0.00
Tl	205	1	No Gas	619774	0.00
Tl	203	1	No Gas	258335	0.00
Pb	208	1	No Gas	852958	0.00
U	238	1	No Gas	885730	0.00
Ca	43	2	He	2940	0.22
Sb	121	2	He	111993	0.00
Cu	63	1	No Gas	193490	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1096884	1.28	1125077	97.49	70	120	
Ge	72	2	He	1025904	1.85	1043230	98.34	70	120	
Ge	72	1	No Gas	3214988	1.85	3298964	97.45	70	120	

Calibration Standard Report

In	115	1	No Gas	4127036	1.08	4167370	99.03	70	120	
Bi	209	1	No Gas	4542968	1.02	4579164	99.21	70	120	

Calibration Standard Report

Sample Table

Sample Name	100/500/10K
Data File Name	014CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060724A.b
Acq Date Time	2024-06-07T10:52:42-05:00
Sample Type	CalStd
Level	5
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	406351	0.00
V	51	2	He	805336	0.00
Cr	52	2	He	912746	0.00
Fe	56	2	He	86993722	0.00
Se	78	2	He	13732	0.02
As	75	2	He	158120	0.00
Ca	44	2	He	501377	0.00
Na	23	2	He	12505094	0.00
Mg	24	2	He	7829463	0.00
K	39	2	He	9213548	0.00
Mn	55	2	He	693469	0.00
Co	59	2	He	1457158	0.00
Ni	60	2	He	375649	0.00
Cu	63	2	He	1006483	0.00
Zn	66	2	He	198791	0.00
Al	27	2	He	50919	0.01
B	11	1	No Gas	1226491	0.00
Al	27	1	No Gas	1847668	0.00
Si	28	1	No Gas	4454993	0.00
Ag	107	1	No Gas	2688852	0.00
Cd	111	1	No Gas	524493	0.00
Sr	88	1	No Gas	4692721	0.00
Mo	95	1	No Gas	976974	0.00
Sn	118	1	No Gas	1696947	0.00
Sb	121	1	No Gas	2348184	0.00
Ba	137	1	No Gas	861915	0.00
Tl	205	1	No Gas	6175033	0.00
Tl	203	1	No Gas	2545678	0.00
Pb	208	1	No Gas	8294433	0.00
U	238	1	No Gas	8993441	0.00
Ca	43	2	He	29335	0.01
Sb	121	2	He	1128970	0.00
Cu	63	1	No Gas	1870558	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1042508	1.31	1125077	92.66	70	120	
Ge	72	2	He	1000424	0.87	1043230	95.90	70	120	
Ge	72	1	No Gas	3148978	1.13	3298964	95.45	70	120	

Calibration Standard Report

In	115	1	No Gas	3966238	1.42	4167370	95.17	70	120	
Bi	209	1	No Gas	4375300	0.60	4579164	95.55	70	120	

Calibration Standard Report

Sample Table

Sample Name	200/1000/20K
Data File Name	015CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060724A.b
Acq Date Time	2024-06-07T10:55:21-05:00
Sample Type	CalStd
Level	6
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	792428	0.00
V	51	2	He	1631151	0.00
Cr	52	2	He	1823243	0.00
Fe	56	2	He	175520504	0.00
Se	78	2	He	27996	0.00
As	75	2	He	317020	0.00
Ca	44	2	He	1014565	0.00
Na	23	2	He	24798660	0.00
Mg	24	2	He	15656896	0.00
K	39	2	He	18587452	0.00
Mn	55	2	He	1411176	0.00
Co	59	2	He	2969345	0.00
Ni	60	2	He	753269	0.00
Cu	63	2	He	2011731	0.00
Zn	66	2	He	393491	0.00
Al	27	2	He	101789	0.00
B	11	1	No Gas	2414512	0.00
Al	27	1	No Gas	3608646	0.00
Si	28	1	No Gas	8325167	0.00
Ag	107	1	No Gas	5277366	0.00
Cd	111	1	No Gas	1041089	0.00
Sr	88	1	No Gas	9306600	0.00
Mo	95	1	No Gas	1959391	0.00
Sn	118	1	No Gas	3368820	0.00
Sb	121	1	No Gas	4727333	0.00
Ba	137	1	No Gas	1724119	0.00
Tl	205	1	No Gas	12325266	0.00
Tl	203	1	No Gas	5053323	0.00
Pb	208	1	No Gas	16568694	0.00
U	238	1	No Gas	18043015	0.00
Ca	43	2	He	59544	0.00
Sb	121	2	He	2292306	0.00
Cu	63	1	No Gas	3661365	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	988241	1.29	1125077	87.84	70	120	
Ge	72	2	He	981269	2.13	1043230	94.06	70	120	
Ge	72	1	No Gas	3090845	1.45	3298964	93.69	70	120	

Calibration Standard Report

In	115	1	No Gas	3858721	1.54	4167370	92.59	70	120	
Bi	209	1	No Gas	4245386	2.13	4579164	92.71	70	120	

Initial Calibration Verification (ICV) Report

Sample Table

Sample Name	ICV
Data File Name	017_ICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060724A.b
Acq Date Time	2024-06-07T11:02:25-05:00
Sample Type	ICV
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

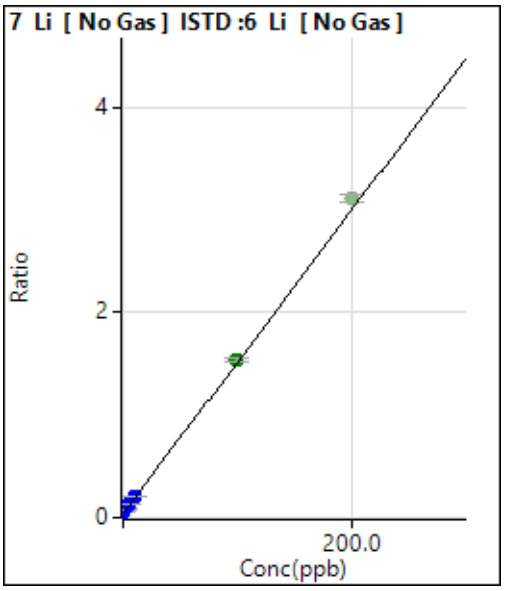
Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Li	7	1	No Gas	102.629	2.784	1652366	1.26	100	102.6	90	110	
Be	9	1	No Gas	105.190	3.128	430737	1.68	100	105.2	90	110	
V	51	2	He	102.435	2.164	866541	1.11	100	102.4	90	110	
Cr	52	2	He	102.906	1.968	977575	1.17	100	102.9	90	110	
Fe	56	2	He	10131.074	2.452	92181135	1.69	10000	101.3	90	110	
Se	78	2	He	102.742	3.080	14938	2.17	100	102.7	90	110	
As	75	2	He	102.890	1.655	169406	0.78	100	102.9	90	110	
Ca	44	2	He	10084.577	3.015	530481	1.97	10000	100.8	90	110	
Na	23	2	He	9982.748	2.059	12902262	1.42	10000	99.8	90	110	
Mg	24	2	He	10147.207	2.656	8249018	1.96	10000	101.5	90	110	
K	39	2	He	10063.304	2.458	9730679	1.53	10000	100.6	90	110	
Mn	55	2	He	103.247	3.325	754102	2.76	100	103.2	90	110	
Co	59	2	He	101.854	1.807	1565186	1.21	100	101.9	90	110	
Ni	60	2	He	101.771	2.247	398057	1.27	100	101.8	90	110	
Cu	63	2	He	101.870	1.652	1064596	0.61	100	101.9	90	110	
Zn	66	2	He	102.174	2.199	209683	1.14	100	102.2	90	110	
Al	27	2	He	104.117	4.007	55607	2.88	100	104.1	90	110	
B	11	1	No Gas	488.101	2.606	1206795	1.12	500	97.6	90	110	
Al	27	1	No Gas	105.420	3.827	1969750	2.22	100	105.4	90	110	
Si	28	1	No Gas	514.327	4.003	4664090	1.96	500	102.9	90	110	
Ag	107	1	No Gas	102.081	3.586	2787102	2.45	100	102.1	90	110	
Cd	111	1	No Gas	102.389	2.711	550178	1.58	100	102.4	90	110	
Sr	88	1	No Gas	103.413	3.173	4969423	2.04	100	103.4	90	110	
Mo	95	1	No Gas	101.011	3.497	1019487	2.35	100	101.0	90	110	
Sn	118	1	No Gas	103.065	2.475	1794227	1.37	100	103.1	90	110	
Sb	121	1	No Gas	106.249	3.293	2560771	1.81	100	106.2	90	110	
Ba	137	1	No Gas	103.133	2.613	916717	1.49	100	103.1	90	110	
Tl	205	1	No Gas	105.260	2.013	6663187	0.15	100	105.3	90	110	
Tl	203	1	No Gas	105.713	2.440	2746664	0.59	100	105.7	90	110	
Pb	208	1	No Gas	102.720	2.967	8739748	1.30	100	102.7	90	110	
U	238	1	No Gas	96.388	2.725	8922400	0.84	100	96.4	90	110	
Ca	43	2	He	10073.468	2.175	31088	1.17	10000	100.7	90	110	
Sb	121	2	He	103.722	1.937	1230715	1.16	100	103.7	90	110	
Ti	47	2	He	100.572	5.329	31389	4.26	100	100.6	90	110	
Cu	63	1	No Gas	105.464	2.891	1980310	1.43	100	105.5	90	110	
Se	82	1	No Gas	103.017	2.716	32980	2.11	100	103.0	90	110	
Zr	90	1	No Gas	68.798	2.858	2176995	1.72	100	68.8	90	110	ICV Main CR1 Failed
Zr	90	2	He	67.410	1.768	949505	1.07	100	67.4	90	1100	ICV Main CR1 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1051194	1.46	1125077	93.43	70	120	
Ge	72	2	He	1023165	1.04	1043230	98.08	70	120	
Ge	72	1	No Gas	3167595	1.52	3298964	96.02	70	120	
In	115	1	No Gas	3999578	1.14	4167370	95.97	70	120	
Bi	209	1	No Gas	4385549	1.88	4579164	95.77	70	120	

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Analysis File: 060724A.batch.bin
DA Date-Time: 6/7/2024 1:50:48 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

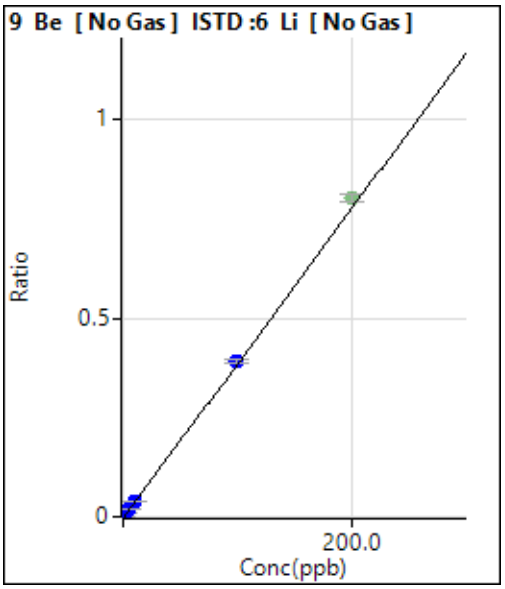
Level	Standard Data File	Sample Name	Acq. Date-Time
1	010CALB.d	CAL BLK	6/7/2024 10:41:58 AM
2	011CALS.d	2/10/200	6/7/2024 10:44:40 AM
3	012CALS.d	5/25/500	6/7/2024 10:47:22 AM
4	013CALS.d	10/50/100	6/7/2024 10:50:02 AM
5	014CALS.d	100/500/10K	6/7/2024 10:52:42 AM
6	015CALS.d	200/1000/20K	6/7/2024 10:55:21 AM



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	63072.09	0.0561	P	1.8	
2	☐	2.000	1.921	94821.20	0.0844	P	0.9	-4.0
3	☐	5.000	4.935	142536.74	0.1290	P	1.5	-1.3
4	☐	10.000	9.750	219460.00	0.2001	P	1.8	-2.5
5	☐	100.000	100.030	1598747.17	1.5339	A	2.6	0.0
6	☑	200.000		3074045.48	3.1111	A	1.9	

y = 0.0148 * x + 0.0561
R = 1.0000
DL = 0.2065 ppb
BEC = 3.795 ppb

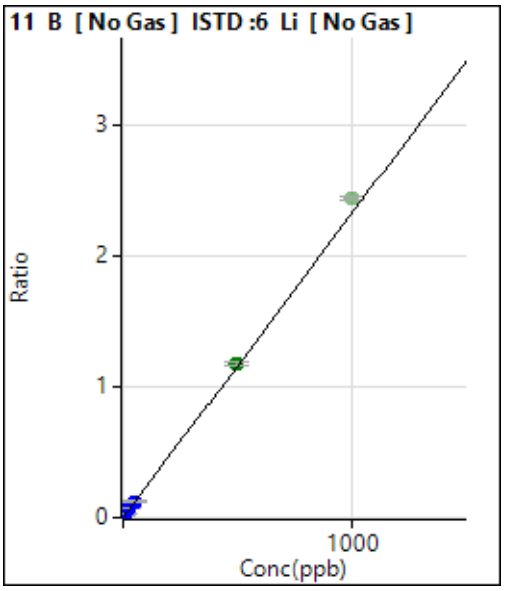
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	45.00	0.0000	P	21.9	
2	☐	2.000	1.883	8280.81	0.0074	P	3.3	-5.9
3	☐	5.000	4.727	20396.35	0.0185	P	1.9	-5.5
4	☐	10.000	9.614	41120.90	0.0375	P	2.7	-3.9
5	☐	100.000	100.055	406351.39	0.3899	P	2.8	0.1
6	☑	200.000		792428.32	0.8020	A	1.9	

y = 0.0039 * x + 3.9976E-005
R = 1.0000
DL = 0.006737 ppb
BEC = 0.01026 ppb

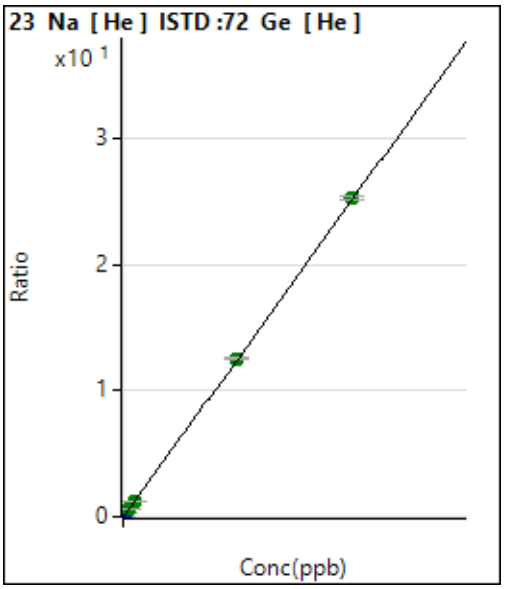
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	15116.44	0.0134	P	3.5	
2	☐	10.000	9.162	39006.72	0.0347	P	1.5	-8.4
3	☐	25.000	23.781	75954.86	0.0687	P	2.5	-4.9
4	☐	50.000	47.598	136104.31	0.1241	P	2.0	-4.8
5	☐	500.000	500.318	1226491.46	1.1767	A	2.3	0.1
6	☑	1000.000		2414511.89	2.4435	A	1.4	

y = 0.0023 * x + 0.0134
R = 1.0000
DL = 0.6148 ppb
BEC = 5.778 ppb

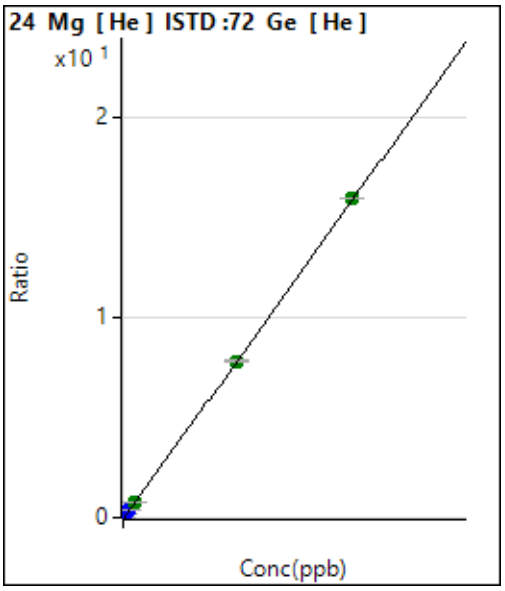
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	70344.94	0.0674	P	0.8	
2	☐	200.000	190.212	319451.15	0.3064	P	2.0	-4.9
3	☐	500.000	480.551	696686.24	0.6713	A	1.4	-3.9
4	☐	1000.000	960.361	1306921.49	1.2742	A	2.4	-4.0
5	☐	10000.00	9893.558	12505093.98	12.4994	A	1.5	-1.1
6	☐	20000.00	20055.78	24798659.63	25.2691	A	0.8	0.3

y = 0.0013 * x + 0.0674
R = 1.0000
DL = 1.295 ppb
BEC = 53.66 ppb

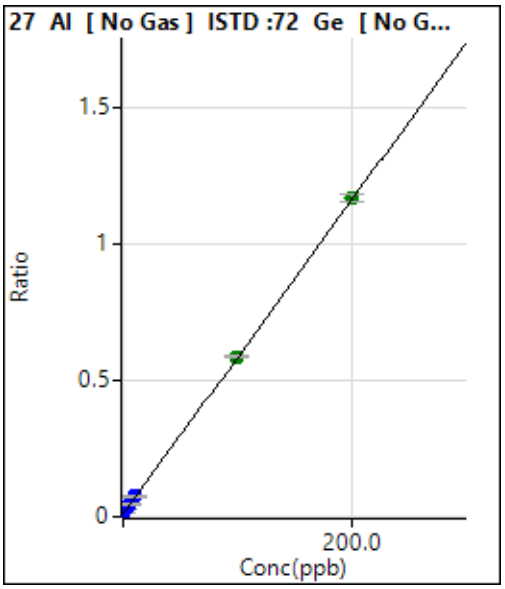
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	483.35	0.0005	P	10.5	
2	☐	200.000	190.401	158192.25	0.1518	P	2.5	-4.8
3	☐	500.000	480.744	396948.94	0.3825	P	1.9	-3.9
4	☐	1000.000	953.446	777585.20	0.7581	A	2.0	-4.7
5	☐	10000.00	9848.103	7829463.01	7.8257	A	1.9	-1.5
6	☐	20000.00	20078.85	15656896.02	15.9551	A	0.4	0.4

y = 7.9460E-004 * x + 4.6337E-004
R = 1.0000
DL = 0.1844 ppb
BEC = 0.5832 ppb

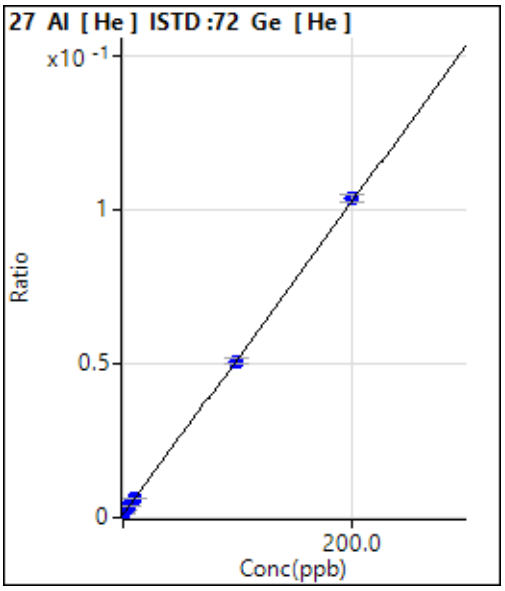
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	52852.75	0.0160	P	3.4	
2	☐	2.000	2.126	92427.36	0.0282	P	3.4	6.3
3	☐	5.000	5.060	147088.70	0.0451	P	3.9	1.2
4	☐	10.000	10.193	239824.46	0.0746	P	3.1	1.9
5	☐	100.000	99.290	1847667.94	0.5868	A	1.9	-0.7
6	☐	200.000	200.343	3608645.99	1.1678	A	2.4	0.2

y = 0.0057 * x + 0.0160
R = 1.0000
DL = 0.2828 ppb
BEC = 2.788 ppb

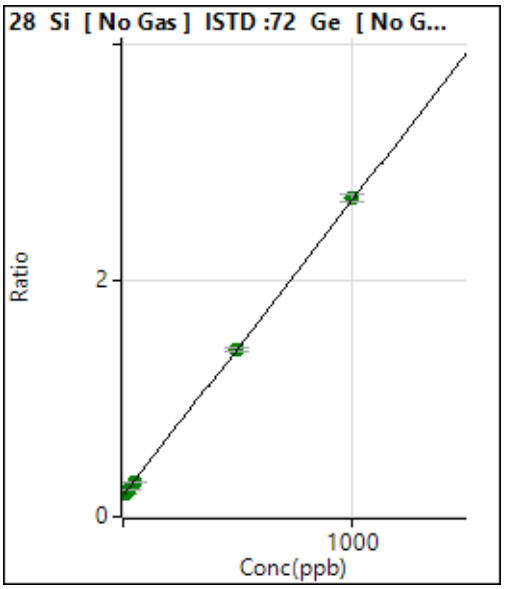
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1556.78	0.0015	P	15.7	
2	☐	2.000	1.841	2530.27	0.0024	P	5.8	-8.0
3	☐	5.000	4.675	4013.98	0.0039	P	7.1	-6.5
4	☐	10.000	9.504	6484.95	0.0063	P	4.7	-5.0
5	☐	100.000	97.284	50919.21	0.0509	P	3.5	-2.7
6	☐	200.000	201.393	101788.59	0.1038	P	2.0	0.7

y = 5.0779E-004 * x + 0.0015
R = 0.9999
DL = 1.381 ppb
BEC = 2.939 ppb

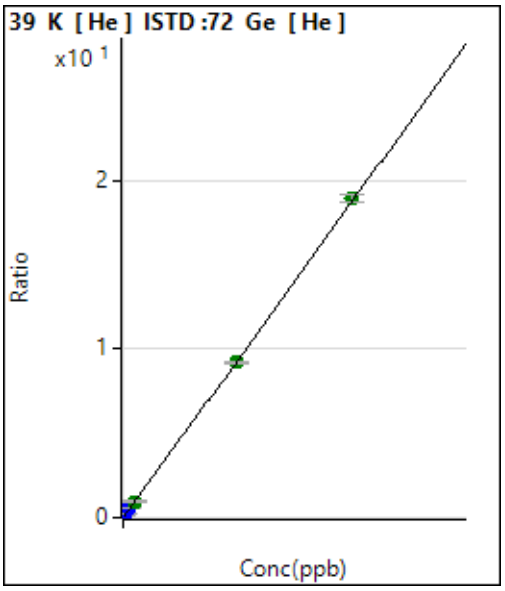
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	639606.24	0.1939	A	1.4	
2	☐	10.000	0.446	638117.00	0.1950	A	1.8	-95.5
3	☐	25.000	15.718	759781.58	0.2330	A	1.6	-37.1
4	☐	50.000	40.281	945140.12	0.2941	A	2.7	-19.4
5	☐	500.000	490.993	4454992.96	1.4149	A	1.8	-1.8
6	☐	1000.000	1005.317	8325166.54	2.6940	A	1.9	0.5

y = 0.0025 * x + 0.1939
R = 0.9999
DL = 3.28 ppb
BEC = 77.97 ppb

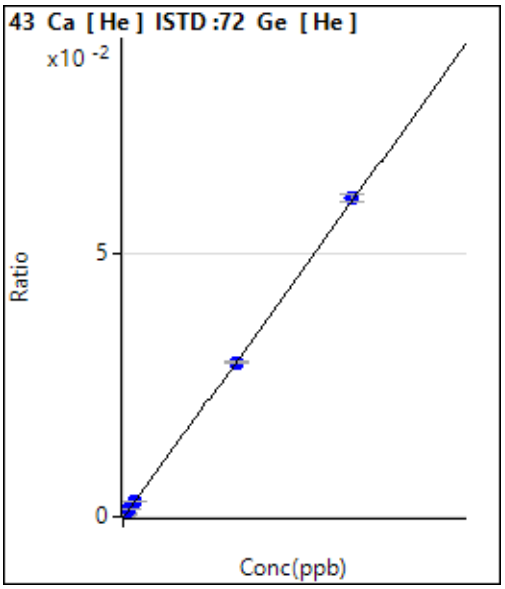
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	84511.59	0.0810	P	1.3	
2	☐	200.000	187.158	267288.71	0.2564	P	1.8	-6.4
3	☐	500.000	475.284	546353.54	0.5264	P	1.8	-4.9
4	☐	1000.000	940.274	986886.08	0.9622	A	2.2	-6.0
5	☐	10000.00	9741.071	9213548.40	9.2099	A	1.6	-2.6
6	☐	20000.00	20133.19	18587452.22	18.9489	A	2.5	0.7

y = 9.3715E-004 * x + 0.0810
R = 0.9999
DL = 3.3 ppb
BEC = 86.44 ppb

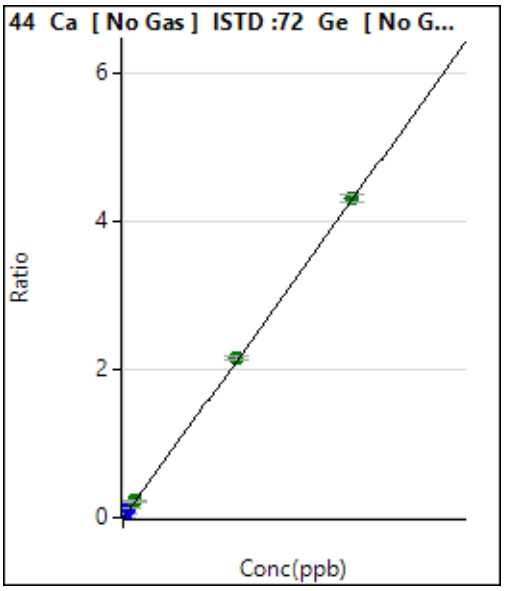
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	66.67	0.0001	P	17.3	
2	☐	200.000	170.891	603.36	0.0006	P	18.7	-14.6
3	☐	500.000	495.407	1613.45	0.0016	P	9.6	-0.9
4	☐	1000.000	931.801	2940.38	0.0029	P	8.2	-6.8
5	☐	10000.00	9719.186	29334.64	0.0293	P	1.6	-2.8
6	☐	20000.00	20144.22	59544.12	0.0607	P	3.0	0.7

y = 3.0104E-006 * x + 6.3900E-005
R = 0.9999
DL = 10.99 ppb
BEC = 21.23 ppb

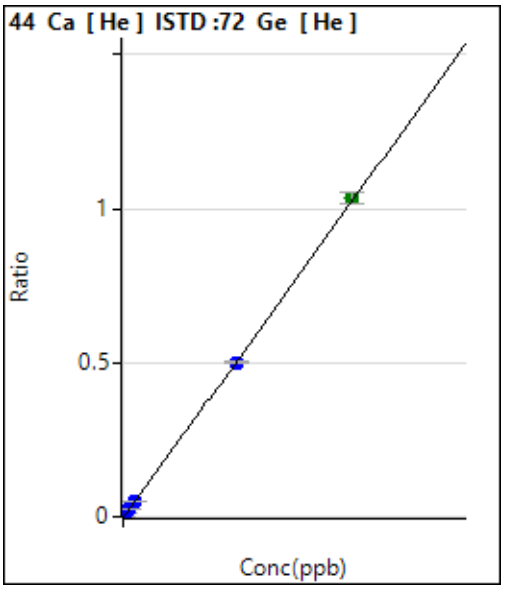
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	39402.97	0.0119	P	2.8	
2	☐	200.000	209.455	185967.84	0.0568	P	1.6	4.7
3	☐	500.000	500.248	388483.08	0.1191	P	3.0	0.0
4	☐	1000.000	989.526	719817.72	0.2240	A	3.7	-1.0
5	☐	10000.00	9935.542	6740913.02	2.1411	A	2.4	-0.6
6	☐	20000.00	20032.65	13302635.22	4.3048	A	2.3	0.2

y = 2.1429E-004 * x + 0.0119
R = 1.0000
DL = 4.679 ppb
BEC = 55.75 ppb

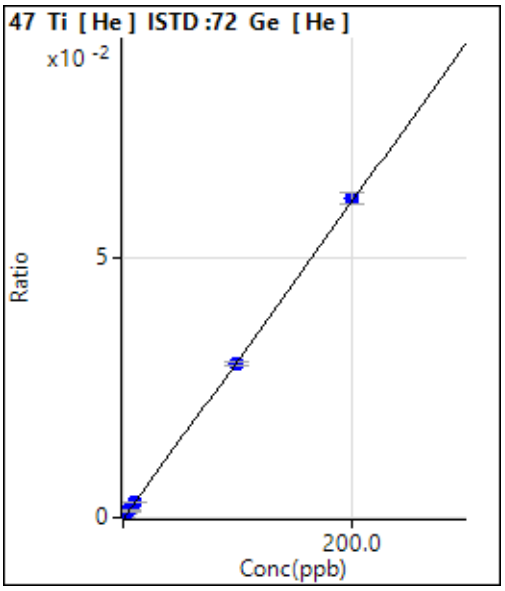
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	783.37	0.0008	P	19.5	
2	☐	200.000	194.379	11188.08	0.0107	P	1.4	-2.8
3	☐	500.000	487.078	26735.99	0.0258	P	2.8	-2.6
4	☐	1000.000	933.472	49939.96	0.0487	P	3.5	-6.7
5	☐	10000.00	9745.119	501377.05	0.5011	P	1.2	-2.5
6	☐	20000.00	20131.14	1014564.67	1.0345	A	3.8	0.7

y = 5.1348E-005 * x + 7.5112E-004
R = 0.9999
DL = 8.565 ppb
BEC = 14.63 ppb

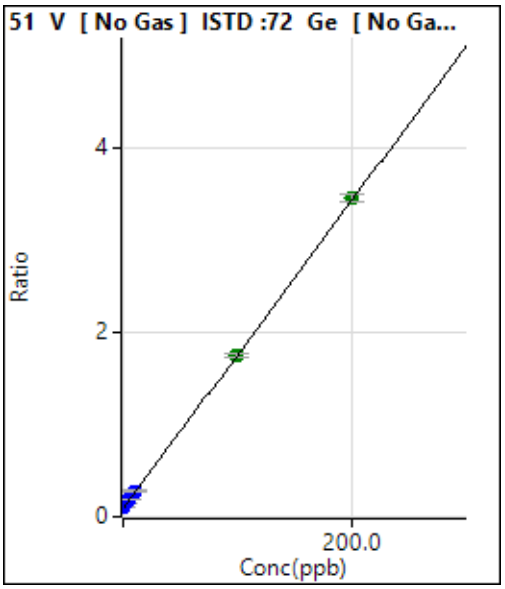
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	13.33	0.0000	P	114.	
2	☐	2.000	2.043	663.36	0.0006	P	18.8	2.1
3	☐	5.000	4.511	1440.10	0.0014	P	17.6	-9.8
4	☐	10.000	9.361	2940.37	0.0029	P	6.0	-6.4
5	☐	100.000	97.401	29738.94	0.0297	P	2.3	-2.6
6	☐	200.000	201.343	60254.11	0.0614	P	4.1	0.7

y = 3.0503E-004 * x + 1.2806E-005
R = 0.9999
DL = 0.1446 ppb
BEC = 0.04198 ppb

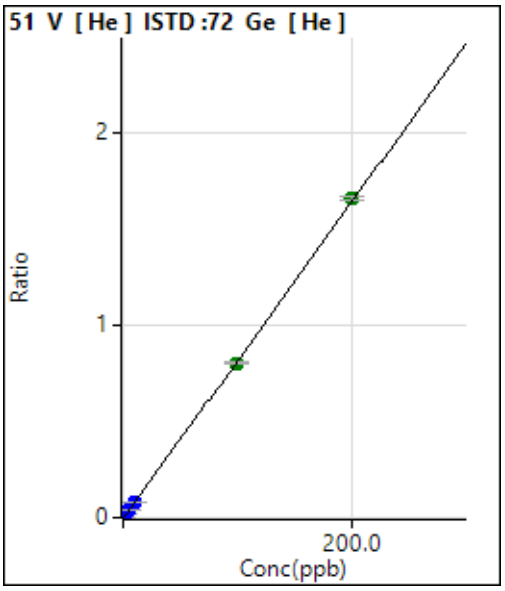
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	351814.55	0.1067	P	3.0	
2	☐	2.000	2.290	474310.84	0.1449	P	1.8	14.5
3	☐	5.000	5.267	634924.31	0.1947	P	2.2	5.3
4	☐	10.000	10.363	899606.12	0.2799	P	2.6	3.6
5	☐	100.000	98.548	5522283.78	1.7540	A	2.6	-1.5
6	☐	200.000	200.698	10697383.80	3.4616	A	1.9	0.3

y = 0.0167 * x + 0.1067
R = 1.0000
DL = 0.5838 ppb
BEC = 6.381 ppb

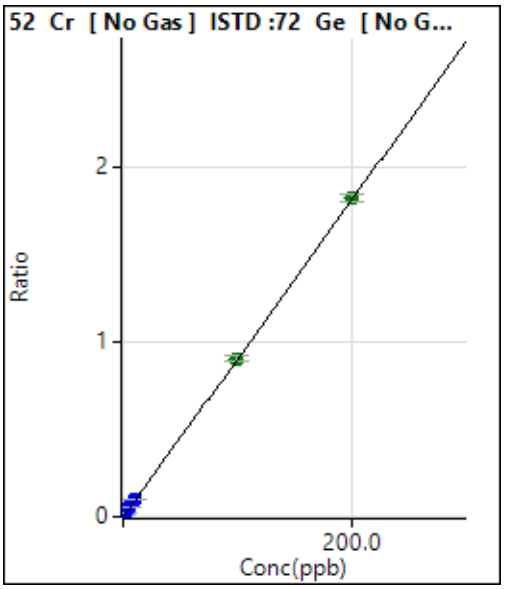
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2979.23	0.0029	P	4.6	
2	☐	2.000	1.877	19104.31	0.0183	P	2.2	-6.1
3	☐	5.000	4.741	43512.45	0.0419	P	1.2	-5.2
4	☐	10.000	9.437	82720.93	0.0806	P	2.9	-5.6
5	☐	100.000	97.331	805335.87	0.8050	A	1.0	-2.7
6	☐	200.000	201.371	1631150.67	1.6624	A	1.2	0.7

y = 0.0082 * x + 0.0029
R = 0.9999
DL = 0.0479 ppb
BEC = 0.3465 ppb

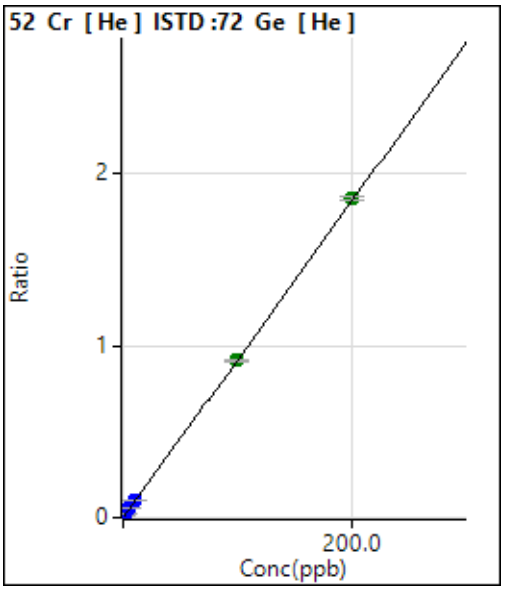
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	20275.07	0.0061	P	3.3	
2	☐	2.000	2.008	79843.04	0.0244	P	2.7	0.4
3	☐	5.000	4.992	168019.77	0.0515	P	3.7	-0.2
4	☐	10.000	9.989	311672.20	0.0970	P	2.5	-0.1
5	☐	100.000	99.225	2859737.46	0.9084	A	3.0	-0.8
6	☐	200.000	200.388	5649475.33	1.8282	A	2.1	0.2

y = 0.0091 * x + 0.0061
R = 1.0000
DL = 0.06687 ppb
BEC = 0.6761 ppb

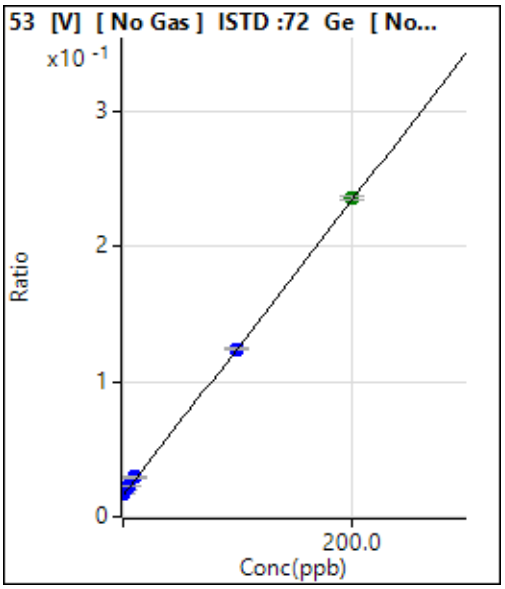
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	8562.80	0.0082	P	3.1	
2	☐	2.000	1.871	26505.62	0.0254	P	4.4	-6.5
3	☐	5.000	4.874	55093.00	0.0531	P	1.9	-2.5
4	☐	10.000	9.721	100218.31	0.0977	P	2.0	-2.8
5	☐	100.000	98.212	912745.90	0.9123	A	0.9	-1.8
6	☐	200.000	200.912	1823243.41	1.8578	A	0.9	0.5

y = 0.0092 * x + 0.0082
R = 0.9999
DL = 0.08228 ppb
BEC = 0.8915 ppb

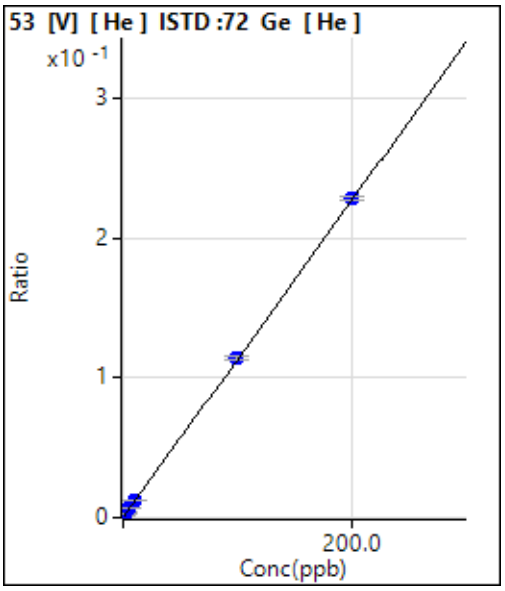
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	56030.18	0.0170	P	3.8	
2	☐	2.000	2.667	65106.11	0.0199	P	2.0	33.4
3	☐	5.000	5.776	75938.10	0.0233	P	1.0	15.5
4	☐	10.000	11.327	94296.75	0.0293	P	2.3	13.3
5	☐	100.000	98.345	391078.42	0.1242	P	1.7	-1.7
6	☐	200.000	200.735	728837.18	0.2358	A	1.6	0.4

y = 0.0011 * x + 0.0170
R = 0.9999
DL = 1.755 ppb
BEC = 15.58 ppb

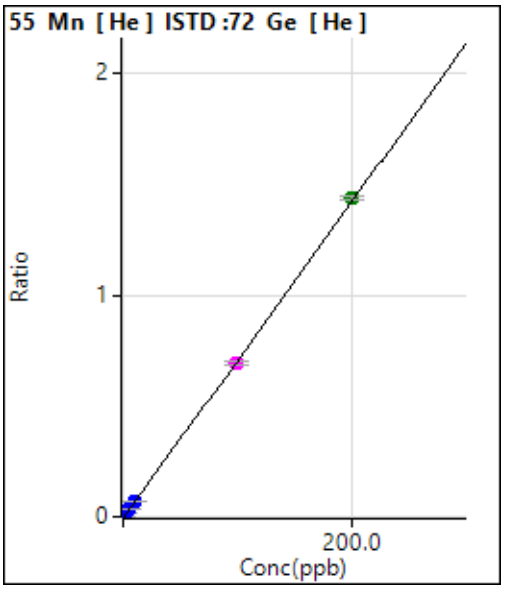
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1410.10	0.0014	P	6.5	
2	☐	2.000	1.830	3570.53	0.0034	P	4.9	-8.5
3	☐	5.000	5.105	7405.46	0.0071	P	4.4	2.1
4	☐	10.000	9.507	12429.17	0.0121	P	5.4	-4.9
5	☐	100.000	99.284	113896.80	0.1138	P	2.9	-0.7
6	☐	200.000	200.382	224143.47	0.2284	P	1.4	0.2

y = 0.0011 * x + 0.0014
R = 1.0000
DL = 0.2333 ppb
BEC = 1.193 ppb

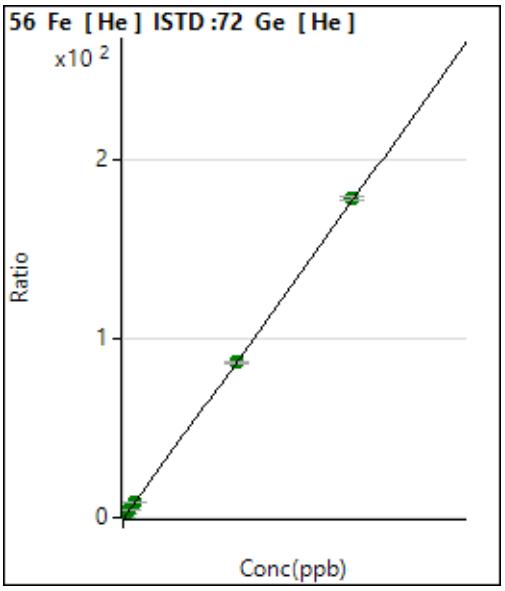
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	516.69	0.0005	P	10.8	
2	☐	2.000	1.907	14701.36	0.0141	P	0.9	-4.6
3	☐	5.000	4.880	36652.22	0.0353	P	2.6	-2.4
4	☐	10.000	9.545	70365.55	0.0686	P	1.4	-4.6
5	☐	100.000	97.077	693468.58	0.6931	M	2.2	-2.9
6	☐	200.000	201.488	1411175.66	1.4381	A	1.1	0.7

y = 0.0071 * x + 4.9521E-004
R = 0.9999
DL = 0.0225 ppb
BEC = 0.06941 ppb

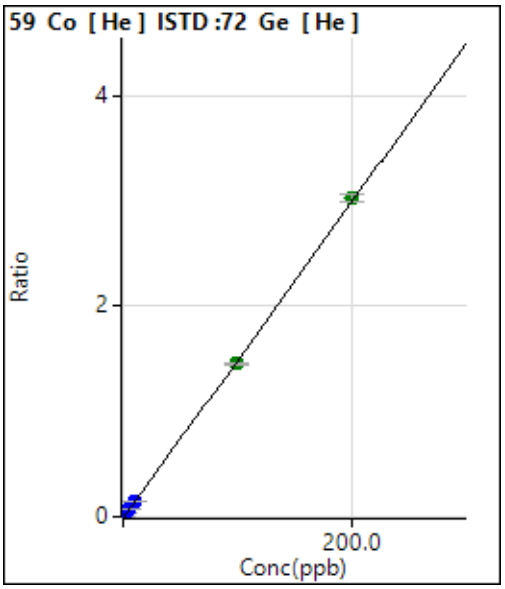
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	14991.76	0.0144	P	1.4	
2	☐	200.000	189.749	1773876.59	1.7017	A	3.6	-5.1
3	☐	500.000	483.995	4482003.16	4.3184	A	1.5	-3.2
4	☐	1000.000	953.028	8706872.16	8.4894	A	2.7	-4.7
5	☐	10000.00	9776.709	86993722.04	86.9556	A	1.8	-2.2
6	☐	20000.00	20114.49	175520504.0	178.886	A	1.2	0.6

y = 0.0089 * x + 0.0144
R = 0.9999
DL = 0.07018 ppb
BEC = 1.616 ppb

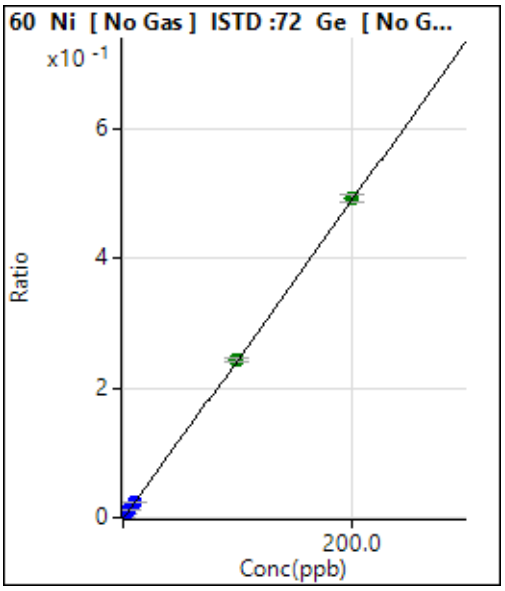
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	340.01	0.0003	P	20.1	
2	☐	2.000	1.857	29408.44	0.0282	P	3.7	-7.1
3	☐	5.000	4.838	75741.20	0.0730	P	2.0	-3.2
4	☐	10.000	9.572	147763.15	0.1441	P	2.8	-4.3
5	☐	100.000	96.970	1457157.53	1.4566	A	1.0	-3.0
6	☐	200.000	201.542	2969345.17	3.0269	A	2.9	0.8

y = 0.0150 * x + 3.2581E-004
R = 0.9998
DL = 0.01308 ppb
BEC = 0.0217 ppb

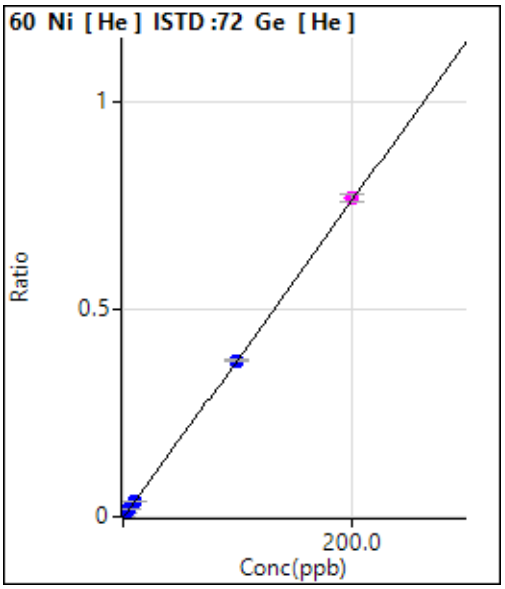
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	880.05	0.0003	P	5.8	
2	☐	2.000	1.993	16883.87	0.0052	P	3.7	-0.4
3	☐	5.000	4.978	40727.20	0.0125	P	2.3	-0.4
4	☐	10.000	9.976	79606.36	0.0248	P	1.2	-0.2
5	☐	100.000	99.067	766753.66	0.2435	A	2.5	-0.9
6	☐	200.000	200.468	1522068.99	0.4925	A	2.1	0.2

y = 0.0025 * x + 2.6690E-004
R = 1.0000
DL = 0.01898 ppb
BEC = 0.1087 ppb

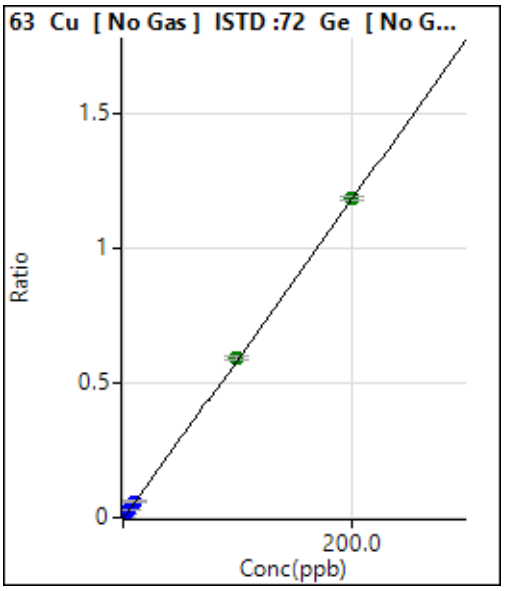
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	453.35	0.0004	P	33.7	
2	☐	2.000	1.946	8199.26	0.0079	P	3.4	-2.7
3	☐	5.000	4.870	19751.14	0.0190	P	2.1	-2.6
4	☐	10.000	9.720	38510.93	0.0376	P	4.1	-2.8
5	☐	100.000	98.203	375649.45	0.3755	P	1.3	-1.8
6	☐	200.000	200.916	753268.58	0.7677	M	2.9	0.5

y = 0.0038 * x + 4.3461E-004
R = 0.9999
DL = 0.115 ppb
BEC = 0.1138 ppb

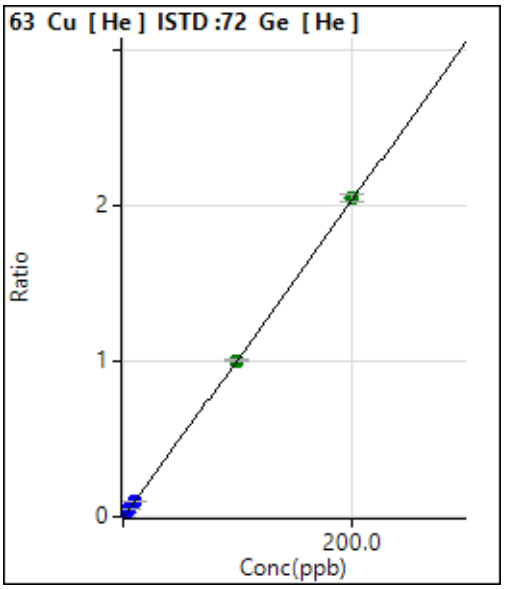
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2070.20	0.0006	P	3.9	
2	☐	2.000	2.028	41359.19	0.0126	P	3.5	1.4
3	☐	5.000	5.116	100838.48	0.0309	P	4.2	2.3
4	☐	10.000	10.058	193490.28	0.0602	P	3.1	0.6
5	☐	100.000	100.196	1870558.20	0.5942	A	3.0	0.2
6	☐	200.000	199.896	3661365.26	1.1847	A	1.5	-0.1

y = 0.0059 * x + 6.2774E-004
R = 1.0000
DL = 0.01233 ppb
BEC = 0.106 ppb

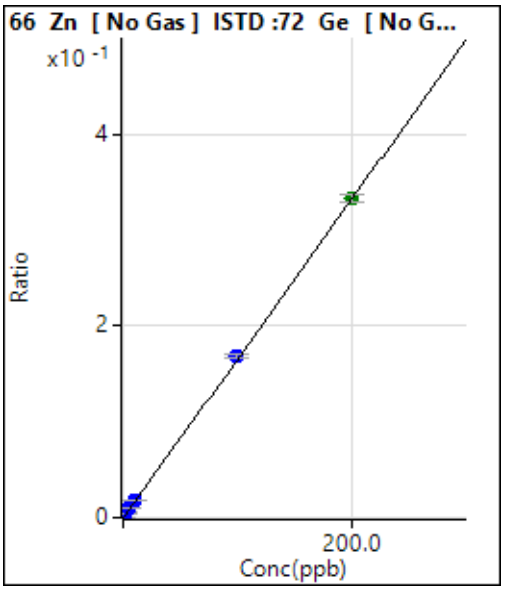
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1160.08	0.0011	P	13.2	
2	☐	2.000	1.941	21807.54	0.0209	P	1.7	-2.9
3	☐	5.000	4.909	53142.83	0.0512	P	1.5	-1.8
4	☐	10.000	9.762	103310.05	0.1007	P	2.8	-2.4
5	☐	100.000	98.477	1006482.80	1.0060	A	2.0	-1.5
6	☐	200.000	200.776	2011731.27	2.0499	A	1.9	0.4

y = 0.0102 * x + 0.0011
R = 1.0000
DL = 0.04313 ppb
BEC = 0.109 ppb

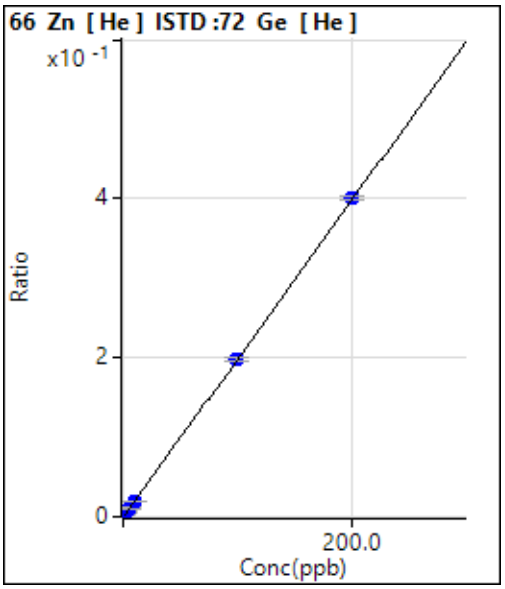
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3210.43	0.0010	P	2.8	
2	☐	2.000	2.382	16166.45	0.0049	P	5.2	19.1
3	☐	5.000	5.056	30651.26	0.0094	P	2.3	1.1
4	☐	10.000	10.019	56780.94	0.0177	P	2.8	0.2
5	☐	100.000	100.698	531294.90	0.1688	P	2.8	0.7
6	☐	200.000	199.645	1030918.22	0.3336	A	2.6	-0.2

y = 0.0017 * x + 9.7333E-004
R = 1.0000
DL = 0.04962 ppb
BEC = 0.5842 ppb

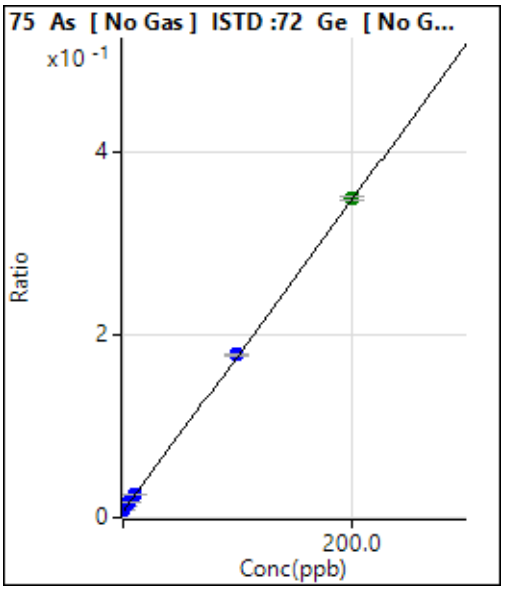
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1353.43	0.0013	P	13.6	
2	☐	2.000	2.320	6171.49	0.0059	P	4.4	16.0
3	☐	5.000	4.734	11138.05	0.0107	P	3.8	-5.3
4	☐	10.000	9.552	20866.16	0.0203	P	1.3	-4.5
5	☐	100.000	99.030	198791.01	0.1987	P	2.7	-1.0
6	☐	200.000	200.511	393490.91	0.4010	P	0.7	0.3

y = 0.0020 * x + 0.0013
R = 1.0000
DL = 0.2657 ppb
BEC = 0.6507 ppb

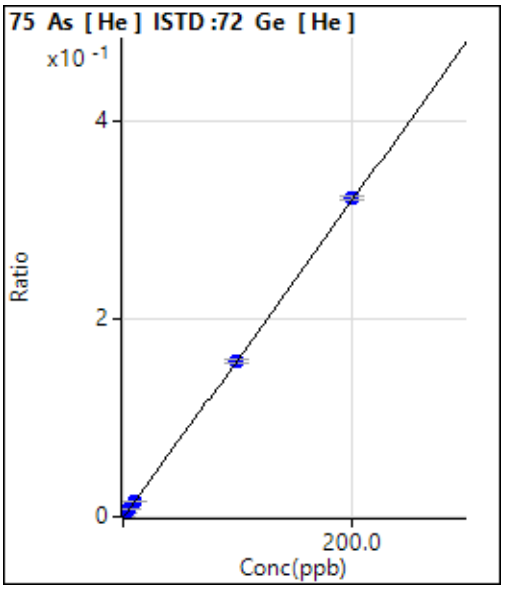
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	28263.13	0.0086	P	2.7	
2	☐	2.000	2.121	39838.41	0.0122	P	2.5	6.0
3	☐	5.000	5.154	56523.64	0.0173	P	2.0	3.1
4	☐	10.000	10.137	82950.93	0.0258	P	2.4	1.4
5	☐	100.000	99.537	559905.97	0.1778	P	2.0	-0.5
6	☐	200.000	200.220	1078657.59	0.3490	A	1.7	0.1

y = 0.0017 * x + 0.0086
R = 1.0000
DL = 0.4094 ppb
BEC = 5.039 ppb

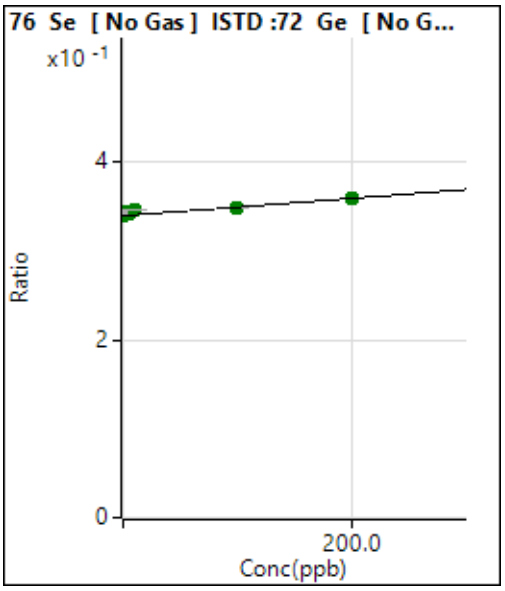
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	300.00	0.0003	P	13.2	
2	☐	2.000	1.880	3449.35	0.0033	P	4.0	-6.0
3	☐	5.000	4.716	8162.48	0.0079	P	1.3	-5.7
4	☐	10.000	9.426	15824.76	0.0154	P	3.3	-5.7
5	☐	100.000	98.200	158120.27	0.1581	P	2.4	-1.8
6	☐	200.000	200.937	317019.74	0.3231	P	1.7	0.5

y = 0.0016 * x + 2.8751E-004
R = 0.9999
DL = 0.07089 ppb
BEC = 0.179 ppb

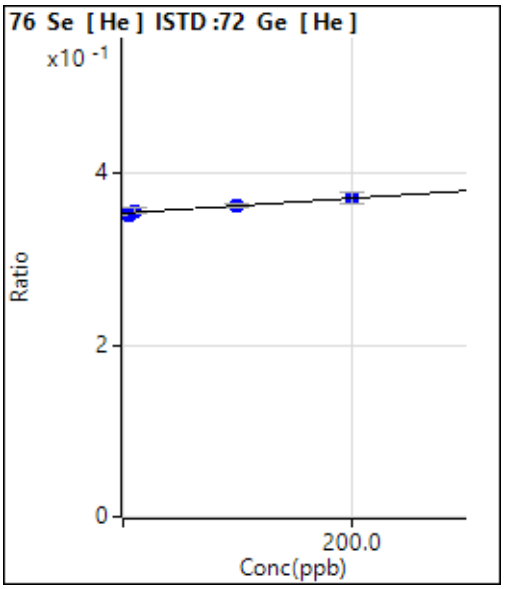
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1119463.34	0.3393	A	0.6	
2	☐	2.000	36.641	1122350.66	0.3430	A	0.5	1732.0
3	☐	5.000	27.761	1115676.78	0.3421	A	0.5	455.2
4	☐	10.000	67.731	1112503.79	0.3460	A	0.1	577.3
5	☐	100.000	94.225	1097931.05	0.3487	A	0.3	-5.8
6	☐	200.000	199.085	1109765.74	0.3590	A	0.3	-0.5

y = 9.9019E-005 * x + 0.3393
R = 0.9563
DL = 56.65 ppb
BEC = 3427 ppb

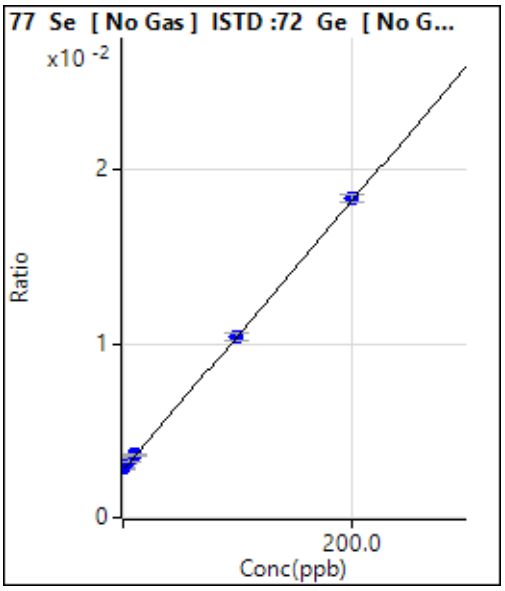
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	368956.84	0.3537	P	0.6	
2	☐	2.000	-10.302	367782.70	0.3528	P	0.4	-615.1
3	☐	5.000	-26.883	364605.76	0.3513	P	0.6	-637.7
4	☐	10.000	34.334	365867.82	0.3567	P	1.4	243.3
5	☐	100.000	94.386	362124.54	0.3620	P	0.9	-5.6
6	☐	200.000	202.510	364311.48	0.3714	P	3.3	1.3

y = 8.7728E-005 * x + 0.3537
R = 0.9775
DL = 67.4 ppb
BEC = 4031 ppb

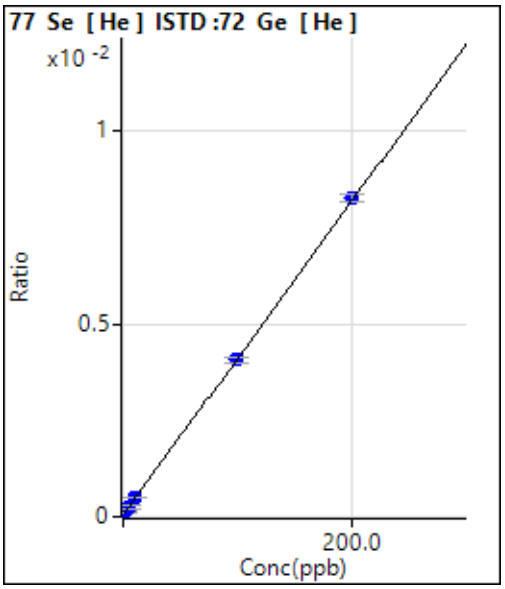
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	9320.02	0.0028	P	2.5	
2	☐	2.000	3.755	10193.97	0.0031	P	1.3	87.7
3	☐	5.000	6.102	10747.79	0.0033	P	6.5	22.0
4	☐	10.000	9.964	11558.43	0.0036	P	1.4	-0.4
5	☐	100.000	97.833	32692.89	0.0104	P	3.8	-2.2
6	☐	200.000	201.040	56734.67	0.0184	P	2.1	0.5

y = 7.7269E-005 * x + 0.0028
R = 0.9999
DL = 2.71 ppb
BEC = 36.56 ppb

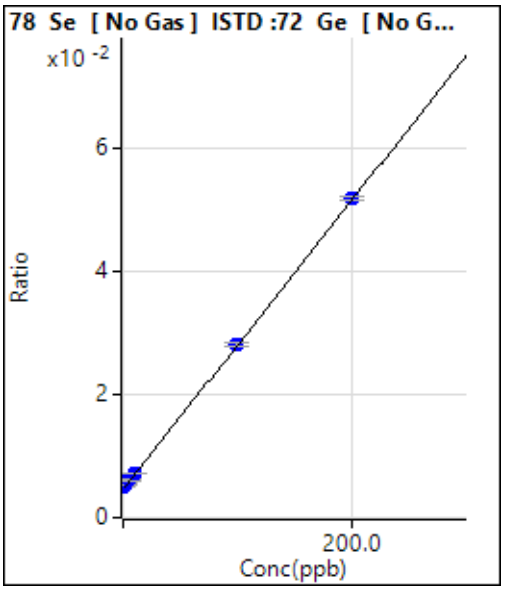
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	96.67	0.0001	P	31.5	
2	☐	2.000	1.019	140.00	0.0001	P	37.3	-49.0
3	☐	5.000	3.961	263.34	0.0003	P	35.9	-20.8
4	☐	10.000	9.632	496.69	0.0005	P	2.6	-3.7
5	☐	100.000	97.784	4070.67	0.0041	P	4.4	-2.2
6	☐	200.000	201.162	8115.82	0.0083	P	1.8	0.6

y = 4.0663E-005 * x + 9.2629E-005
R = 0.9999
DL = 2.151 ppb
BEC = 2.278 ppb

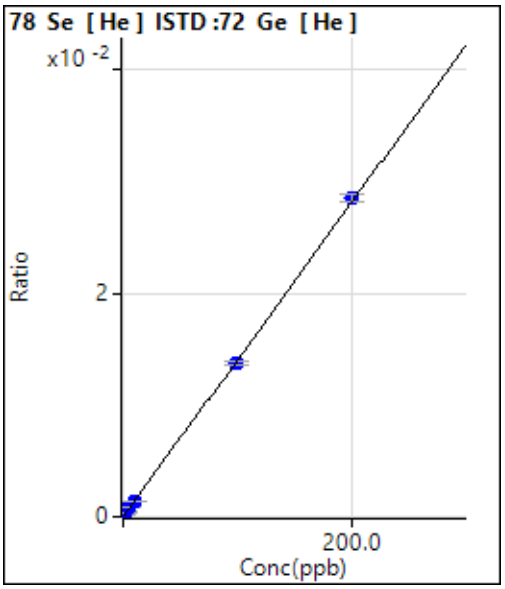
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16053.09	0.0049	P	0.8	
2	☐	2.000	2.364	17741.81	0.0054	P	4.9	18.2
3	☐	5.000	5.246	19878.10	0.0061	P	1.8	4.9
4	☐	10.000	10.014	23186.69	0.0072	P	1.5	0.1
5	☐	100.000	99.193	88516.60	0.0281	P	1.8	-0.8
6	☐	200.000	200.393	160183.22	0.0518	P	1.2	0.2

y = 2.3436E-004 * x + 0.0049
R = 1.0000
DL = 0.5095 ppb
BEC = 20.76 ppb

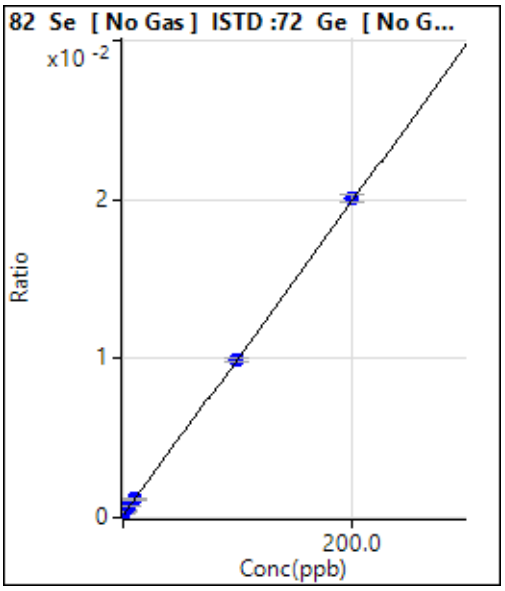
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	153.33	0.0001	P	7.9	
2	☐	2.000	2.006	447.34	0.0004	P	3.8	0.3
3	☐	5.000	4.856	862.03	0.0008	P	9.0	-2.9
4	☐	10.000	9.029	1454.09	0.0014	P	1.1	-9.7
5	☐	100.000	96.500	13731.59	0.0137	P	2.5	-3.5
6	☐	200.000	201.802	27996.01	0.0285	P	2.5	0.9

y = 1.4070E-004 * x + 1.4698E-004
R = 0.9998
DL = 0.2481 ppb
BEC = 1.045 ppb

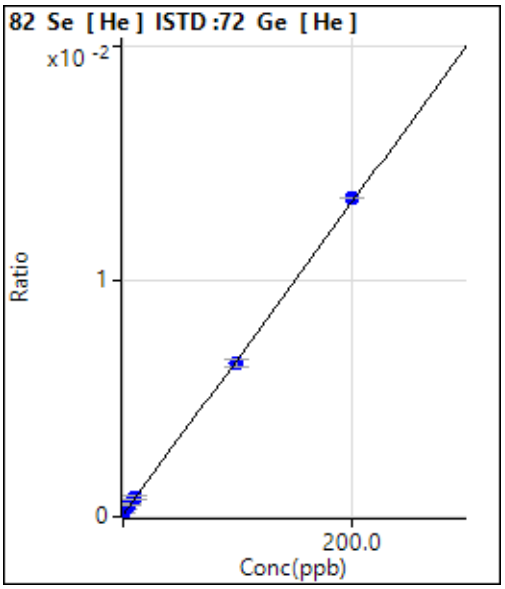
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	803.37	0.0002	P	6.9	
2	☐	2.000	2.028	1453.44	0.0004	P	9.7	1.4
3	☐	5.000	4.831	2350.25	0.0007	P	1.8	-3.4
4	☐	10.000	9.335	3743.92	0.0012	P	6.4	-6.6
5	☐	100.000	97.738	31146.02	0.0099	P	2.5	-2.3
6	☐	200.000	201.168	62122.05	0.0201	P	2.5	0.6

y = 9.8720E-005 * x + 2.4367E-004
R = 0.9999
DL = 0.5117 ppb
BEC = 2.468 ppb

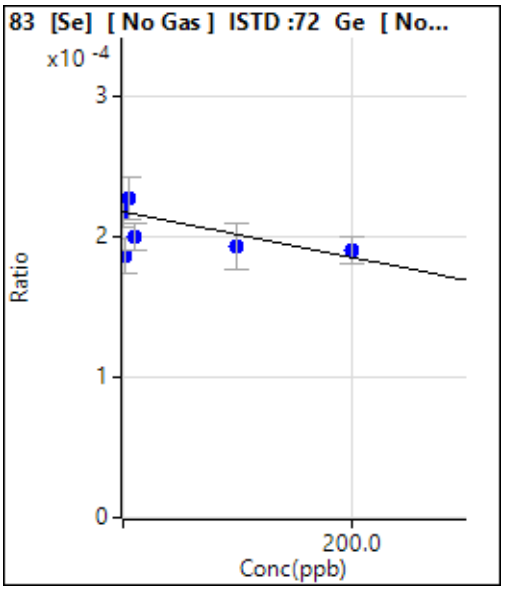
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	166.67	0.0002	P	27.1	
2	☐	2.000	2.420	333.34	0.0003	P	14.9	21.0
3	☐	5.000	5.352	533.35	0.0005	P	11.8	7.0
4	☐	10.000	10.090	850.04	0.0008	P	16.2	0.9
5	☐	100.000	95.964	6515.03	0.0065	P	4.9	-4.0
6	☐	200.000	202.000	13276.71	0.0135	P	0.5	1.0

y = 6.6193E-005 * x + 1.5980E-004
R = 0.9997
DL = 1.965 ppb
BEC = 2.414 ppb

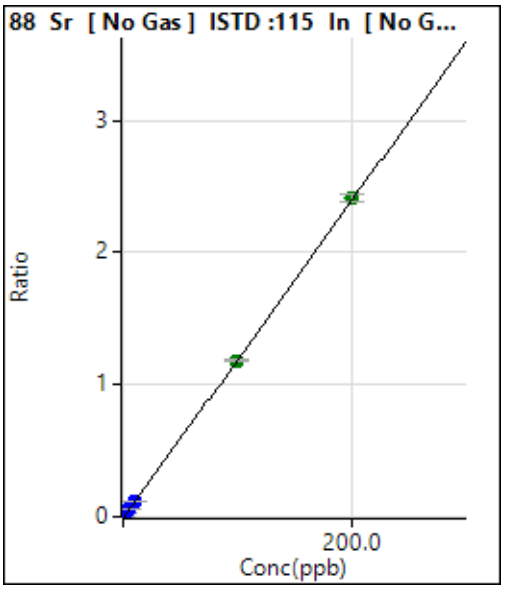
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	716.70	0.0002	P	10.4	
2	☐	2.000	197.250	606.69	0.0002	P	13.4	9762.5
3	☐	5.000	-59.073	740.03	0.0002	P	13.0	-1281.
4	☐	10.000	111.637	640.03	0.0002	P	9.4	1016.4
5	☐	100.000	151.006	606.69	0.0002	P	17.0	51.0
6	☐	200.000	169.065	586.69	0.0002	P	10.5	-15.5

y = -1.6187E-007 * x + 2.1735E-004
R = -0.4800
DL = -418.8 ppb
BEC = -1343 ppb

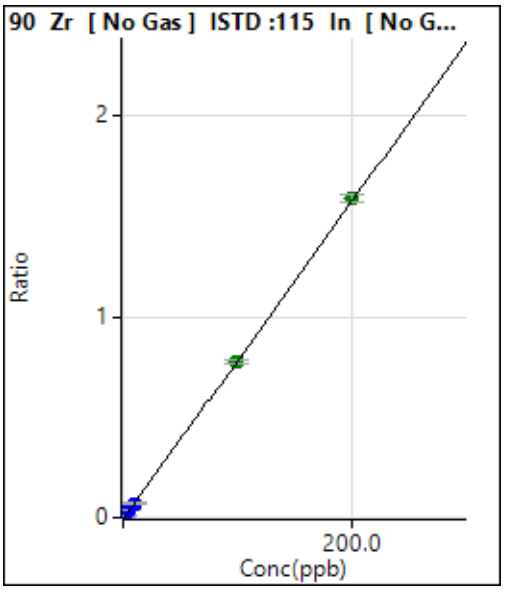
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1990.18	0.0005	P	5.6	
2	☐	2.000	1.950	99790.06	0.0239	P	1.3	-2.5
3	☐	5.000	4.916	244991.12	0.0595	P	2.3	-1.7
4	☐	10.000	9.706	483067.10	0.1171	P	2.7	-2.9
5	☐	100.000	98.469	4692720.97	1.1834	A	2.0	-1.5
6	☐	200.000	200.783	9306599.65	2.4125	A	2.7	0.4

y = 0.0120 * x + 4.7766E-004
R = 1.0000
DL = 0.006724 ppb
BEC = 0.03976 ppb

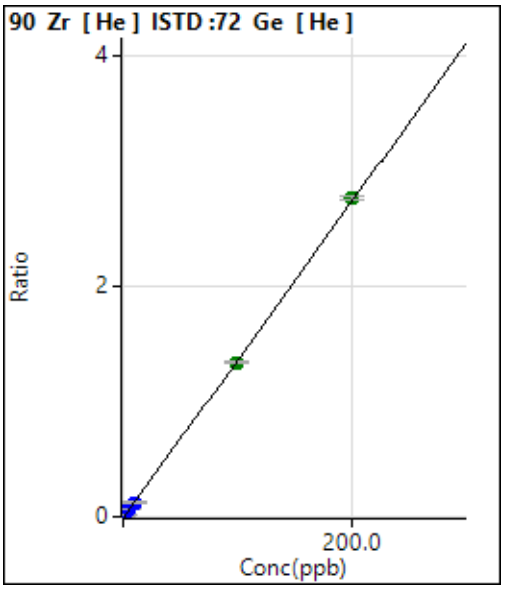
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1450.10	0.0003	P	8.8	
2	☐	2.000	1.627	55182.83	0.0132	P	3.0	-18.6
3	☐	5.000	4.394	144449.86	0.0351	P	1.7	-12.1
4	☐	10.000	9.001	295151.70	0.0715	P	3.2	-10.0
5	☐	100.000	97.781	3067690.58	0.7736	A	2.4	-2.2
6	☐	200.000	201.178	6139120.12	1.5913	A	2.2	0.6

y = 0.0079 * x + 3.4818E-004
R = 0.9999
DL = 0.01162 ppb
BEC = 0.04403 ppb

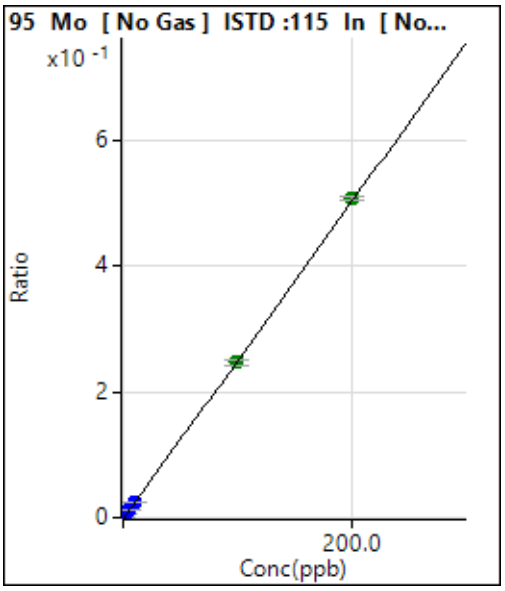
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1510.11	0.0014	P	10.1	
2	☐	2.000	1.648	25123.74	0.0241	P	2.4	-17.6
3	☐	5.000	4.370	63850.74	0.0615	P	2.2	-12.6
4	☐	10.000	8.996	128325.32	0.1251	P	2.3	-10.0
5	☐	100.000	97.346	1340201.65	1.3396	A	1.8	-2.7
6	☐	200.000	201.396	2718373.19	2.7699	A	1.7	0.7

y = 0.0137 * x + 0.0014
R = 0.9999
DL = 0.03189 ppb
BEC = 0.1053 ppb

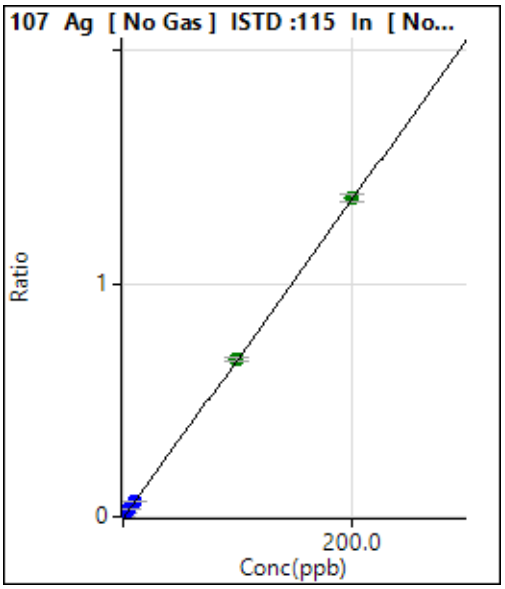
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	216.68	0.0001	P	11.8	
2	☐	2.000	1.893	20158.73	0.0048	P	1.5	-5.4
3	☐	5.000	4.865	50739.26	0.0123	P	2.5	-2.7
4	☐	10.000	9.478	98911.36	0.0240	P	3.0	-5.2
5	☐	100.000	97.610	976973.66	0.2464	A	2.6	-2.4
6	☐	200.000	201.226	1959391.01	0.5079	A	1.7	0.6

y = 0.0025 * x + 5.2046E-005
R = 0.9999
DL = 0.007327 ppb
BEC = 0.02062 ppb

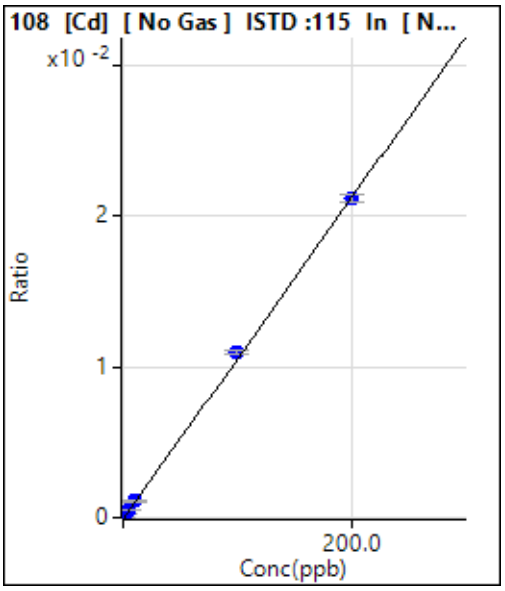
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	906.72	0.0002	P	7.6	
2	☐	2.000	1.975	57189.17	0.0137	P	2.5	-1.3
3	☐	5.000	4.980	140802.62	0.0342	P	2.9	-0.4
4	☐	10.000	9.738	275210.62	0.0667	P	1.9	-2.6
5	☐	100.000	99.306	2688852.25	0.6781	A	2.5	-0.7
6	☐	200.000	200.361	5277365.55	1.3679	A	1.9	0.2

y = 0.0068 * x + 2.1763E-004
R = 1.0000
DL = 0.007273 ppb
BEC = 0.03188 ppb

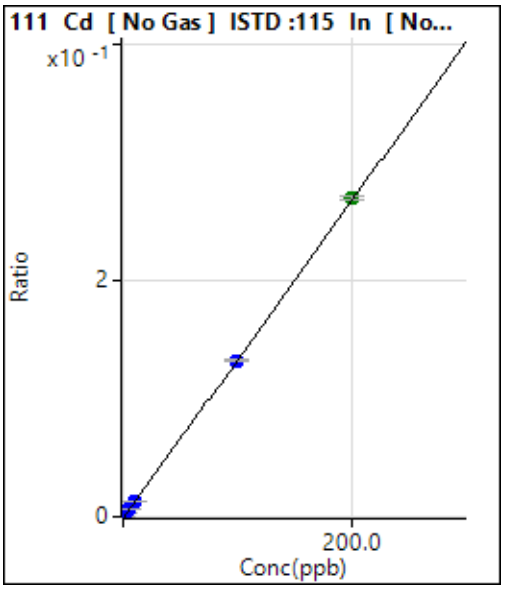
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6.67	0.0000	P	86.6	
2	☐	2.000	2.067	926.72	0.0002	P	4.8	3.3
3	☐	5.000	4.985	2193.55	0.0005	P	9.9	-0.3
4	☐	10.000	10.275	4527.49	0.0011	P	3.7	2.7
5	☐	100.000	102.873	43507.95	0.0110	P	2.3	2.9
6	☐	200.000	198.549	81692.55	0.0212	P	2.5	-0.7

y = 1.0664E-004 * x + 1.6116E-006
R = 0.9999
DL = 0.03926 ppb
BEC = 0.01511 ppb

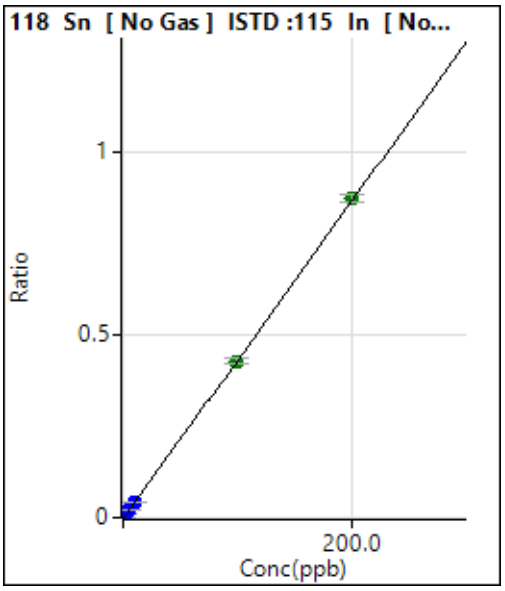
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	19.51	0.0000	P	51.4	
2	☐	2.000	1.914	10760.98	0.0026	P	4.4	-4.3
3	☐	5.000	4.758	26327.54	0.0064	P	4.2	-4.8
4	☐	10.000	9.555	52997.61	0.0128	P	2.9	-4.5
5	☐	100.000	98.426	524493.35	0.1323	P	1.9	-1.6
6	☐	200.000	200.816	1041089.01	0.2698	A	1.8	0.4

y = 0.0013 * x + 4.6769E-006
R = 1.0000
DL = 0.005365 ppb
BEC = 0.003481 ppb

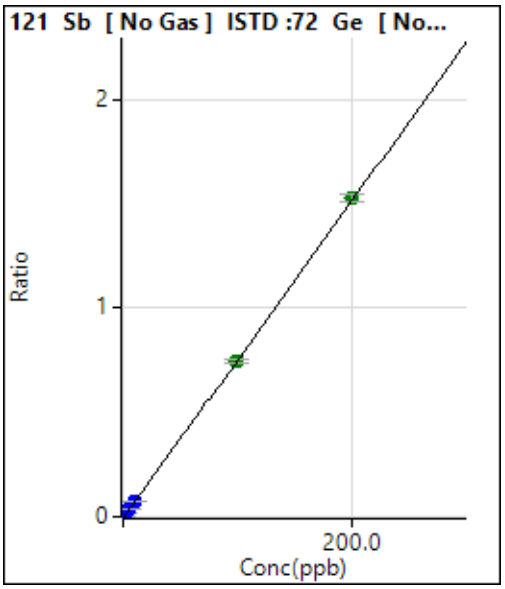
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5481.24	0.0013	P	8.3	
2	☐	2.000	2.015	41996.77	0.0101	P	4.1	0.7
3	☐	5.000	4.872	92433.52	0.0225	P	2.8	-2.6
4	☐	10.000	9.594	177258.84	0.0430	P	2.6	-4.1
5	☐	100.000	98.291	1696947.11	0.4280	A	2.9	-1.7
6	☐	200.000	200.878	3368820.47	0.8733	A	2.5	0.4

y = 0.0043 * x + 0.0013
R = 0.9999
DL = 0.07498 ppb
BEC = 0.3028 ppb

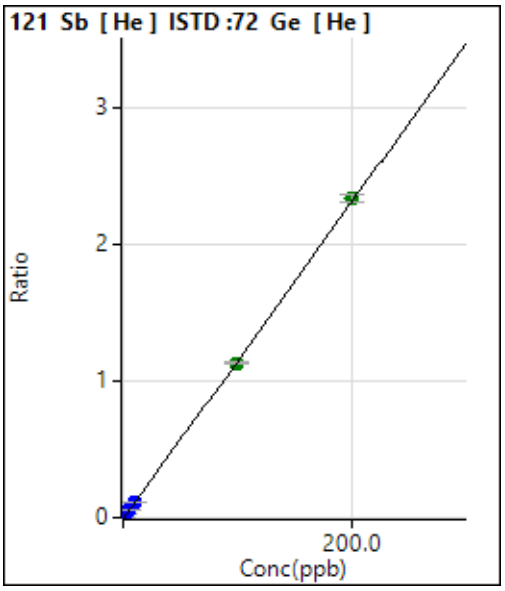
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	523.35	0.0002	P	12.0	
2	☐	2.000	1.960	49302.00	0.0151	P	5.5	-2.0
3	☐	5.000	4.824	120221.25	0.0369	P	2.8	-3.5
4	☐	10.000	9.750	238961.72	0.0744	P	3.0	-2.5
5	☐	100.000	97.989	2348183.87	0.7458	A	2.4	-2.0
6	☐	200.000	201.023	4727333.47	1.5299	A	3.0	0.5

y = 0.0076 * x + 1.5879E-004
R = 0.9999
DL = 0.007498 ppb
BEC = 0.02087 ppb

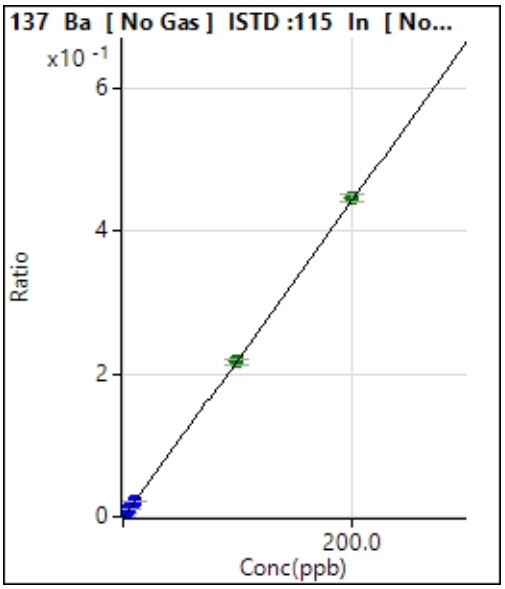
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	226.67	0.0002	P	36.6	
2	☐	2.000	1.902	23223.98	0.0223	P	1.2	-4.9
3	☐	5.000	4.684	56604.18	0.0545	P	1.3	-6.3
4	☐	10.000	9.397	111993.38	0.1092	P	1.6	-6.0
5	☐	100.000	97.297	1128970.45	1.1285	A	1.6	-2.7
6	☐	200.000	201.390	2292306.00	2.3356	A	2.0	0.7

y = 0.0116 * x + 2.1721E-004
R = 0.9999
DL = 0.02058 ppb
BEC = 0.01873 ppb

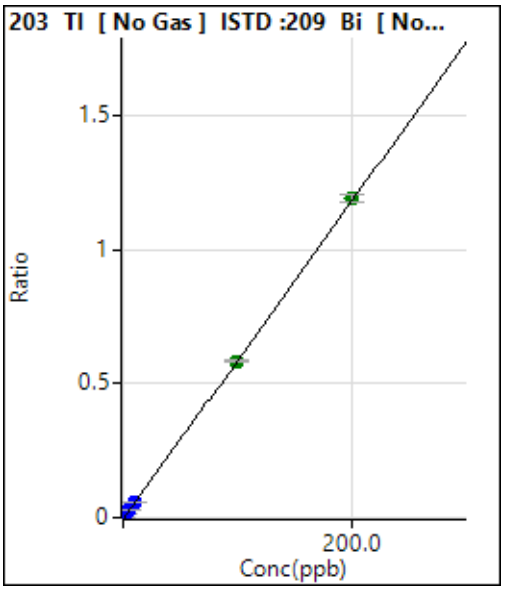
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	760.04	0.0002	P	14.9	
2	☐	2.000	1.816	17605.34	0.0042	P	0.3	-9.2
3	☐	5.000	4.931	45820.19	0.0111	P	3.7	-1.4
4	☐	10.000	9.430	87178.08	0.0211	P	2.2	-5.7
5	☐	100.000	97.788	861914.75	0.2174	A	3.1	-2.2
6	☐	200.000	201.138	1724119.04	0.4469	A	2.5	0.6

y = 0.0022 * x + 1.8260E-004
R = 0.9999
DL = 0.03664 ppb
BEC = 0.08221 ppb

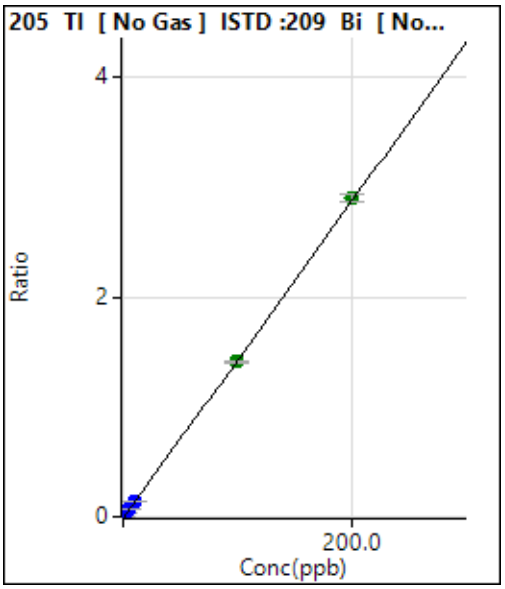
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	686.70	0.0001	P	7.9	
2	☐	2.000	1.878	51559.13	0.0113	P	1.6	-6.1
3	☐	5.000	4.867	132060.10	0.0290	P	1.2	-2.7
4	☐	10.000	9.573	258335.06	0.0569	P	2.2	-4.3
5	☐	100.000	98.180	2545678.35	0.5819	A	1.3	-1.8
6	☐	200.000	200.936	5053322.84	1.1907	A	2.2	0.5

y = 0.0059 * x + 1.4995E-004
R = 0.9999
DL = 0.005971 ppb
BEC = 0.02531 ppb

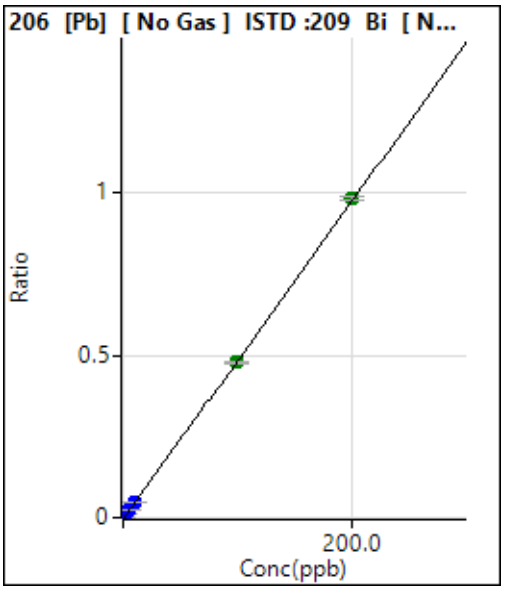
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1683.48	0.0004	P	3.6	
2	☐	2.000	1.862	124524.90	0.0272	P	1.9	-6.9
3	☐	5.000	4.695	310434.26	0.0681	P	0.4	-6.1
4	☐	10.000	9.427	619773.74	0.1364	P	2.0	-5.7
5	☐	100.000	97.754	6175033.03	1.4114	A	1.2	-2.2
6	☐	200.000	201.160	12325266.07	2.9040	A	2.0	0.6

y = 0.0144 * x + 3.6772E-004
R = 0.9999
DL = 0.002714 ppb
BEC = 0.02548 ppb

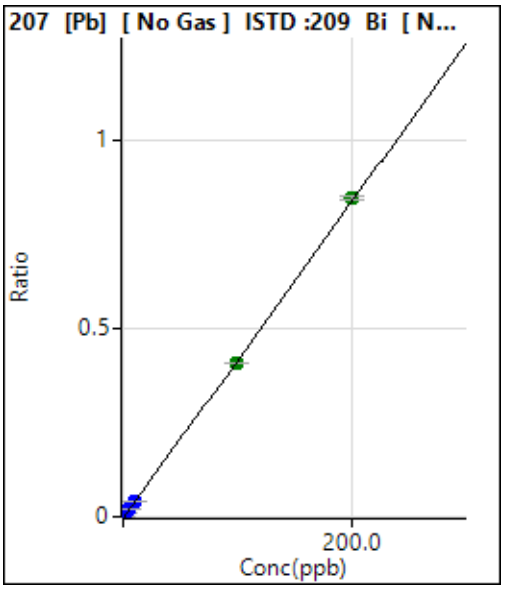
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	863.38	0.0002	P	3.5	
2	☐	2.000	1.922	43783.01	0.0096	P	1.5	-3.9
3	☐	5.000	4.752	106649.73	0.0234	P	1.0	-5.0
4	☐	10.000	9.660	215252.90	0.0474	P	1.9	-3.4
5	☐	100.000	97.850	2092525.33	0.4783	A	1.0	-2.2
6	☐	200.000	201.099	4171266.29	0.9827	A	1.5	0.5

y = 0.0049 * x + 1.8862E-004
R = 0.9999
DL = 0.004023 ppb
BEC = 0.0386 ppb

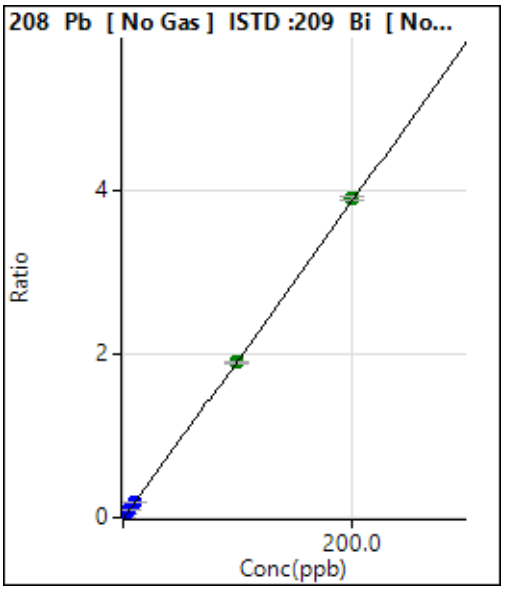
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	843.38	0.0002	P	4.0	
2	☐	2.000	1.879	36941.19	0.0081	P	0.5	-6.0
3	☐	5.000	4.771	92169.32	0.0202	P	0.9	-4.6
4	☐	10.000	9.638	184812.99	0.0407	P	1.8	-3.6
5	☐	100.000	97.105	1786028.83	0.4082	A	1.0	-2.9
6	☐	200.000	201.473	3594051.93	0.8468	A	1.7	0.7

y = 0.0042 * x + 1.8410E-004
R = 0.9999
DL = 0.005242 ppb
BEC = 0.04381 ppb

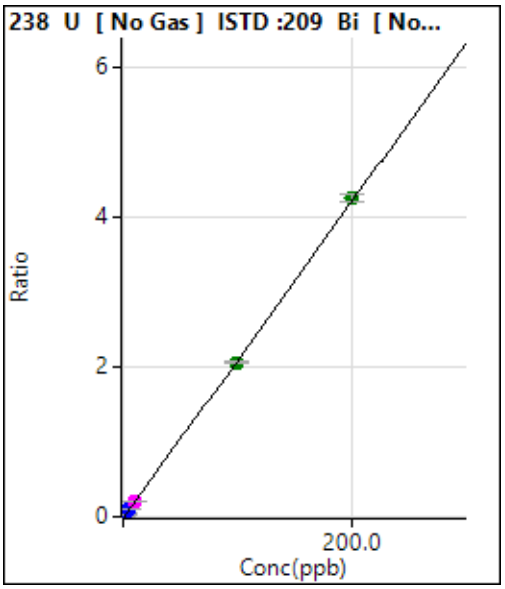
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3843.65	0.0008	P	4.3	
2	☐	2.000	1.896	171943.97	0.0376	P	1.5	-5.2
3	☐	5.000	4.797	427826.10	0.0939	P	0.9	-4.1
4	☐	10.000	9.636	852958.08	0.1878	P	1.6	-3.6
5	☐	100.000	97.681	8294432.84	1.8958	A	0.9	-2.3
6	☐	200.000	201.184	16568693.51	3.9037	A	1.7	0.6

y = 0.0194 * x + 8.3968E-004
R = 0.9999
DL = 0.005553 ppb
BEC = 0.04328 ppb

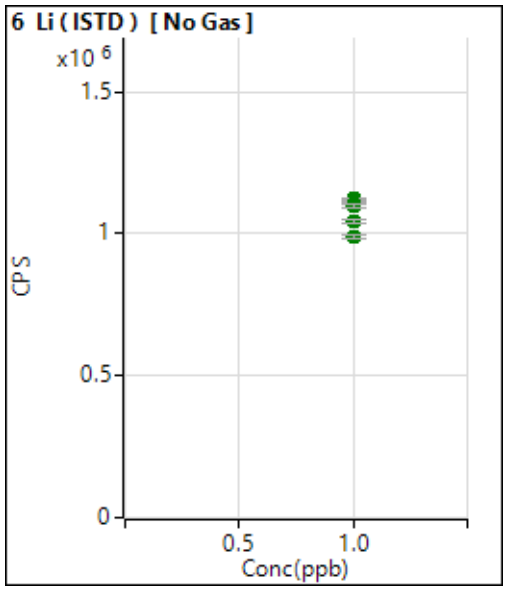
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Min Conc: <None>



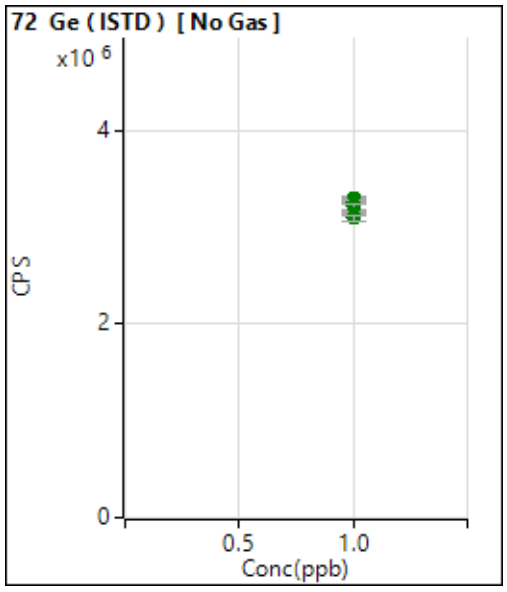
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	526.69	0.0001	P	15.0	
2	☐	2.000	1.824	176623.92	0.0386	P	1.1	-8.8
3	☐	5.000	4.572	440271.91	0.0966	P	1.3	-8.6
4	☐	10.000	9.230	885730.17	0.1950	M	2.1	-7.7
5	☐	100.000	97.352	8993441.33	2.0555	A	0.9	-2.6
6	☐	200.000	201.375	18043014.73	4.2518	A	3.0	0.7

y = 0.0211 * x + 1.1520E-004
R = 0.9999
DL = 0.002453 ppb
BEC = 0.005456 ppb

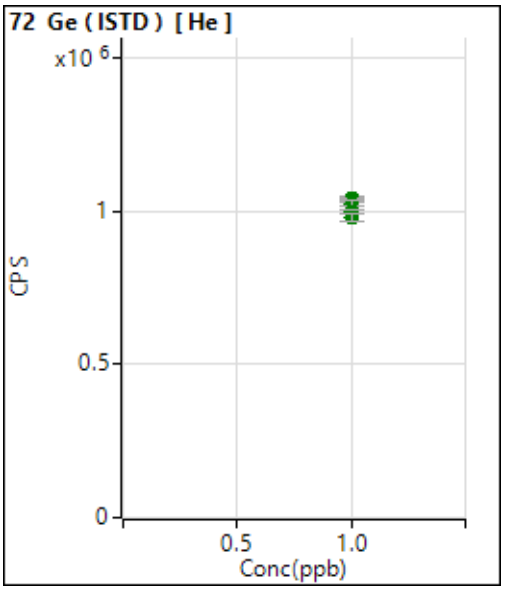
Weight: <None>
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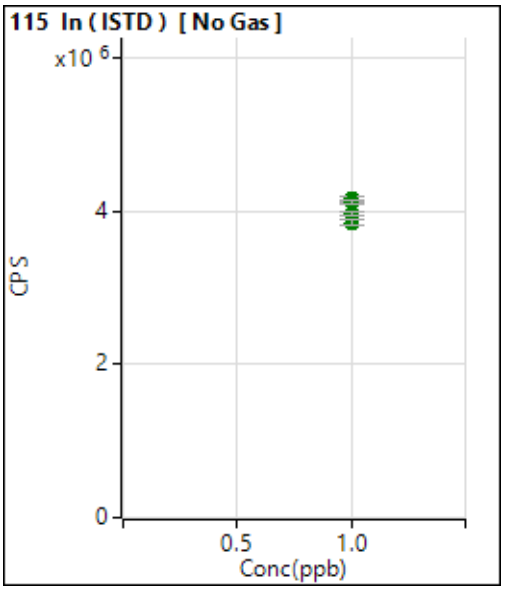
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1125076.60		A	0.4	
2	☐	1.000		1122987.17		A	0.8	
3	☐	1.000		1105235.32		A	0.7	
4	☐	1.000		1096883.57		A	1.3	
5	☐	1.000		1042508.09		A	1.3	
6	☐	1.000		988240.79		A	1.3	



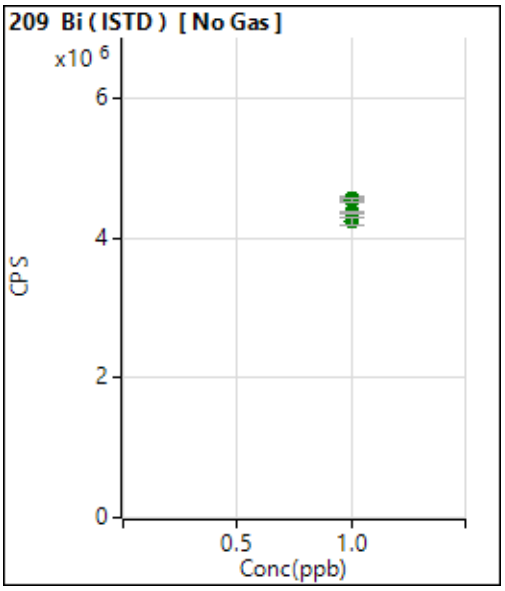
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		3298964.12		A	1.3	
2	☐	1.000		3272563.91		A	1.1	
3	☐	1.000		3261454.95		A	1.4	
4	☐	1.000		3214987.56		A	1.8	
5	☐	1.000		3148977.76		A	1.1	
6	☐	1.000		3090845.06		A	1.5	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1043230.06		A	0.3	
2	☐	1.000		1042553.45		A	0.8	
3	☐	1.000		1037864.33		A	0.8	
4	☐	1.000		1025904.15		A	1.9	
5	☐	1.000		1000423.79		A	0.9	
6	☐	1.000		981269.18		A	2.1	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4167370.39		A	1.3	
2	☐	1.000		4175077.82		A	0.6	
3	☐	1.000		4116036.71		A	0.8	
4	☐	1.000		4127035.82		A	1.1	
5	☐	1.000		3966237.89		A	1.4	
6	☐	1.000		3858721.04		A	1.5	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4579163.79		A	1.7	
2	☐	1.000		4571329.20		A	0.4	
3	☐	1.000		4555967.12		A	0.8	
4	☐	1.000		4542967.54		A	1.0	
5	☐	1.000		4375299.83		A	0.6	
6	☐	1.000		4245386.29		A	2.1	

Sample Report

Sample Table

Sample Name	LLICV2
Data File Name	019LCV2.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060724A.b
Acq Date Time	2024-06-07T11:07:14-05:00
Sample Type	LLCCV2
Dilution	1
Comment	
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	1.983	1.983	3.84	92229	0.00	2	
Be	9	1	No Gas	1.947	1.947	1.30	8239	0.02	2	
V	51	2	He	2.011	2.011	1.98	20052	0.01	2	
Cr	52	2	He	2.088	2.088	0.47	28313	0.01	2	
Fe	56	2	He	201.270	201.270	1.34	1862414	0.01	200	
Se	78	2	He	1.999	1.999	6.20	442	0.45	2	
As	75	2	He	1.995	1.995	3.48	3605	0.06	2	
Ca	44	2	He	202.959	202.959	4.30	11535	1.76	200	
Na	23	2	He	202.690	202.690	2.58	332514	0.06	200	
Mg	24	2	He	201.630	201.630	0.75	165856	0.12	200	
K	39	2	He	194.962	194.962	2.28	272218	0.07	200	
Mn	55	2	He	2.006	2.006	2.51	15282	0.01	2	
Co	59	2	He	2.014	2.014	0.98	31550	0.01	2	
Ni	60	2	He	2.045	2.045	2.43	8513	0.02	2	
Cu	63	2	He	2.056	2.056	6.00	22799	0.01	2	
Zn	66	2	He	2.475	2.475	5.12	6432	0.04	2	
Al	27	2	He	1.898	1.898	31.63	2537	0.07	2	
B	11	1	No Gas	10.537	10.537	4.15	40981	0.03	10	
Al	27	1	No Gas	2.389	2.389	8.07	95340	0.00	2	
Si	28	1	No Gas	1.473	1.473	56.11	632871	0.00	10	NewName Main CR1 Failed
Ag	107	1	No Gas	2.046	2.046	3.31	57889	0.00	2	
Cd	111	1	No Gas	2.029	2.029	1.85	11152	0.02	2	
Sr	88	1	No Gas	2.065	2.065	2.78	103188	0.00	2	
Mo	95	1	No Gas	1.990	1.990	1.99	20706	0.01	2	
Sn	118	1	No Gas	2.092	2.092	3.94	42428	0.00	2	
Sb	121	1	No Gas	2.106	2.106	4.87	51828	0.00	2	
Ba	137	1	No Gas	1.943	1.943	4.02	18356	0.01	2	
Tl	205	1	No Gas	1.915	1.915	2.40	128457	0.00	2	
Tl	203	1	No Gas	1.947	1.947	1.53	53597	0.00	2	
Pb	208	1	No Gas	1.994	1.994	2.58	181310	0.00	2	
U	238	1	No Gas	1.893	1.893	2.99	183879	0.00	2	
Ca	43	2	He	187.961	187.961	0.75	650	28.92	200	
Sb	121	2	He	2.035	2.035	2.00	24580	0.01	2	
Ti	47	2	He	1.790	1.790	5.95	577	0.31	200	
Cu	63	1	No Gas	2.098	2.098	2.00	41814	0.01	2	
Se	82	1	No Gas	2.223	2.223	10.25	1483	0.15	2	
Zr	90	1	No Gas	1.774	1.774	3.29	58681	0.00	2	
Zr	90	2	He	1.763	1.763	1.87	26513	0.01	2	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1080563	1.48	1125077	96.04	70	120	
Ge	72	2	He	1032260	0.68	1043230	98.95	70	120	
Ge	72	1	No Gas	3203091	0.99	3298964	97.09	70	120	
In	115	1	No Gas	4081605	1.41	4167370	97.94	70	120	
Bi	209	1	No Gas	4587101	1.16	4579164	100.17	70	120	

Sample Report

Sample Table

Sample Name	LLICV5
Data File Name	020LCV5.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060724A.b
Acq Date Time	2024-06-07T11:09:39-05:00
Sample Type	LLCCV5
Dilution	1
Comment	
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	4.992	4.992	4.20	140352	0.00	5	
Be	9	1	No Gas	4.923	4.923	2.77	20784	0.02	5	
V	51	2	He	4.967	4.967	0.68	45262	0.01	5	
Cr	52	2	He	5.029	5.029	1.75	56332	0.01	5	
Fe	56	2	He	505.993	505.993	1.49	4665581	0.01	500	
Se	78	2	He	5.071	5.071	3.38	889	0.57	5	
As	75	2	He	5.011	5.011	0.87	8618	0.06	5	
Ca	44	2	He	499.829	499.829	1.42	27304	1.83	500	
Na	23	2	He	501.325	501.325	1.81	720801	0.07	500	
Mg	24	2	He	506.098	506.098	1.71	416132	0.12	500	
K	39	2	He	495.747	495.747	1.92	563923	0.09	500	
Mn	55	2	He	5.084	5.084	2.42	37999	0.01	5	
Co	59	2	He	5.159	5.159	1.79	80414	0.01	5	
Ni	60	2	He	5.189	5.189	3.42	20933	0.02	5	
Cu	63	2	He	5.184	5.184	1.60	55820	0.01	5	
Zn	66	2	He	5.029	5.029	4.59	11702	0.04	5	
Al	27	2	He	4.855	4.855	10.26	4091	0.12	5	
B	11	1	No Gas	24.832	24.832	1.35	76959	0.03	25	
Al	27	1	No Gas	5.316	5.316	5.39	149312	0.00	5	
Si	28	1	No Gas	15.577	15.577	7.47	745799	0.00	25	NewName2 Main CR1 Failed
Ag	107	1	No Gas	5.101	5.101	2.74	143464	0.00	5	
Cd	111	1	No Gas	4.946	4.946	5.26	27229	0.02	5	
Sr	88	1	No Gas	5.020	5.020	2.71	248888	0.00	5	
Mo	95	1	No Gas	4.945	4.945	1.83	51315	0.01	5	
Sn	118	1	No Gas	5.020	5.020	3.87	94592	0.01	5	
Sb	121	1	No Gas	5.098	5.098	3.11	124840	0.00	5	
Ba	137	1	No Gas	5.000	5.000	2.25	46222	0.01	5	
Tl	205	1	No Gas	4.805	4.805	1.65	317128	0.00	5	
Tl	203	1	No Gas	4.970	4.970	2.07	134608	0.00	5	
Pb	208	1	No Gas	4.966	4.966	1.64	442052	0.00	5	
U	238	1	No Gas	4.734	4.734	2.51	455142	0.00	5	
Ca	43	2	He	495.160	495.160	5.40	1607	30.82	500	
Sb	121	2	He	5.048	5.048	1.85	60732	0.01	5	
Ti	47	2	He	4.684	4.684	3.49	1490	0.31	5	
Cu	63	1	No Gas	5.272	5.272	3.94	102101	0.01	5	
Se	82	1	No Gas	5.355	5.355	13.19	2474	0.22	5	
Zr	90	1	No Gas	4.512	4.512	2.16	147529	0.00	5	
Zr	90	2	He	4.607	4.607	1.84	66949	0.01	5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1081367	0.78	1125077	96.11	70	120	
Ge	72	2	He	1033584	0.13	1043230	99.08	70	120	
Ge	72	1	No Gas	3206201	1.65	3298964	97.19	70	120	
In	115	1	No Gas	4094880	0.78	4167370	98.26	70	120	
Bi	209	1	No Gas	4548746	0.48	4579164	99.34	70	120	

Initial Calibration Blank (ICB) Report

Sample Table

Sample Name	ICB
Data File Name	022_ICB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060724A.b
Acq Date Time	2024-06-07T11:14:26-05:00
Sample Type	ICB
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	-0.059	-29.4	62110	1.0	0.5	
Be	9	1	No Gas	-0.001	-507.5	38	83.9	0.5	
V	51	2	He	-0.098	-21.8	2145	8.3	2.5	
Cr	52	2	He	-0.246	-11.4	6218	4.1	2.5	
Fe	56	2	He	0.285	8.2	17702	1.0	100	
Se	78	2	He	0.041	394.5	160	15.2	1	
As	75	2	He	-0.039	-69.9	236	19.2	2.5	
Ca	44	2	He	-1.484	-111.9	707	12.8	100	
Na	23	2	He	1.552	48.9	72640	1.6	100	
Mg	24	2	He	-0.082	-69.1	417	11.1	100	
K	39	2	He	-0.895	-39.0	83935	0.5	100	
Mn	55	2	He	0.020	136.6	667	30.2	2.5	
Co	59	2	He	-0.002	-47.0	317	3.6	2.5	
Ni	60	2	He	0.041	32.4	620	8.4	2.5	
Cu	63	2	He	-0.010	-111.6	1053	11.5	1	
Zn	66	2	He	0.052	137.0	1467	10.3	2.5	
Al	27	2	He	-0.689	-35.0	1197	10.8	5	
B	11	1	No Gas	-0.544	-19.6	13695	2.6	0.5	
Al	27	1	No Gas	-0.710	-19.5	39026	6.3	5	
Si	28	1	No Gas	-5.995	-38.8	584996	4.1	10	
Ag	107	1	No Gas	-0.016	-4.3	450	4.4	2.5	
Cd	111	1	No Gas	-0.003	-31.1	2	228.9	1	
Sr	88	1	No Gas	-0.015	-19.3	1250	13.2	2.5	
Mo	95	1	No Gas	0.005	90.9	267	18.5	2.5	
Sn	118	1	No Gas	-0.043	-32.8	4674	5.1	5	
Sb	121	1	No Gas	0.013	31.1	850	10.8	2.5	
Ba	137	1	No Gas	-0.033	-10.8	453	6.7	2.5	
Tl	205	1	No Gas	-0.007	-17.3	1250	5.6	1	
Tl	203	1	No Gas	-0.007	-15.5	510	5.2	1	
Pb	208	1	No Gas	-0.009	-10.5	3060	2.6	2.5	
U	238	1	No Gas	0.001	94.5	617	12.4	2.5	
Ca	43	2	He	-13.829	-26.4	23	49.5	100	
Sb	121	2	He	0.012	50.0	373	19.4	2.5	
Ti	47	2	He	0.000	-6921.3	13	43.3	2.5	
Se	82	1	No Gas	-0.299	-149.9	700	21.0	1	
Zr	90	1	No Gas	0.027	20.1	2340	5.9	2.5	
Zr	90	2	He	0.010	38.6	1660	3.2	2.5	

QC ISTD Table

Initial Calibration Blank (ICB) Report

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1125332	1.35	1125077	100.02	70	120	
Ge	72	2	He	1046969	0.27	1043230	100.36	70	120	
Ge	72	1	No Gas	3267741	1.50	3298964	99.05	70	120	
In	115	1	No Gas	4146822	1.87	4167370	99.51	70	120	
Bi	209	1	No Gas	4619048	0.60	4579164	100.87	70	120	

Interference Check Solution A (ICS-A) Report

Sample Table

Sample Name	ICSA
Data File Name	024ICSA.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060724A.b
Acq Date Time	2024-06-07T11:19:18-05:00
Sample Type	ICSA
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	0.448	23.3	63444	3.5	0	ICSA Main CR1 Failed
Be	9	1	No Gas	0.026	28.4	142	19.4	0	ICSA Main CR1 Failed
V	51	2	He	0.383	2.3	5947	1.3	0	ICSA Main CR1 Failed
Cr	52	2	He	0.806	4.2	15452	2.2	0	ICSA Main CR1 Failed
Fe	56	2	He	97715.171	1.8	859304947	1.0	0	
Se	78	2	He	0.148	127.0	166	15.9	0	ICSA Main CR1 Failed
As	75	2	He	0.533	5.0	1131	3.1	0	ICSA Main CR1 Failed
Ca	44	2	He	96195.933	2.1	4885302	1.4	0	
Na	23	2	He	99209.753	1.8	123345578	1.0	0	
Mg	24	2	He	97044.892	3.0	76250854	2.3	0	
K	39	2	He	96840.477	1.5	89826869	0.7	0	
Mn	55	2	He	1.596	2.6	11749	2.2	0	ICSA Main CR1 Failed
Co	59	2	He	0.945	2.4	14361	3.1	0	ICSA Main CR1 Failed
Ni	60	2	He	1.057	2.3	4421	1.6	0	ICSA Main CR1 Failed
Cu	63	2	He	0.652	5.0	7676	3.5	0	ICSA Main CR1 Failed
Zn	66	2	He	2.851	7.8	6902	6.0	0	ICSA Main CR1 Failed
Al	27	2	He	99495.844	2.4	49961224	1.6	0	
B	11	1	No Gas	1.509	15.4	17144	2.4	0	
Al	27	1	No Gas	98323.129	2.2	1709903655	1.5	0	
Si	28	1	No Gas	37.569	7.0	869299	2.7	0	
Ag	107	1	No Gas	0.057	9.8	2247	8.0	0	ICSA Main CR1 Failed
Cd	111	1	No Gas	0.746	6.9	3731	5.5	0	ICSA Main CR1 Failed
Sr	88	1	No Gas	0.886	3.4	41170	1.5	0	ICSA Main CR1 Failed
Mo	95	1	No Gas	1998.466	4.1	18677039	2.1	0	
Sn	118	1	No Gas	0.351	1.8	10518	1.0	0	ICSA Main CR1 Failed
Sb	121	1	No Gas	0.163	3.3	4231	3.3	0	ICSA Main CR1 Failed
Ba	137	1	No Gas	0.392	3.6	3904	1.7	0	ICSA Main CR1 Failed
Tl	205	1	No Gas	0.000	700.0	1487	3.9	0	ICSA Main CR1 Failed
Tl	203	1	No Gas	0.000	913.0	610	10.8	0	ICSA Main CR1 Failed
Pb	208	1	No Gas	0.878	2.7	71905	1.3	0	ICSA Main CR1 Failed
U	238	1	No Gas	0.018	11.9	1984	8.4	0	ICSA Main CR1 Failed
Ca	43	2	He	93868.972	1.6	279508	1.0	0	
Sb	121	2	He	0.175	1.5	2227	0.7	0	ICSA Main CR1 Failed
Ti	47	2	He	1939.859	2.6	585124	1.8	0	
Se	82	1	No Gas	0.267	91.6	817	8.3	0	ICSA Main CR1 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1011975	1.13	1125077	89.95	70	120	
Ge	72	2	He	988976	0.77	1043230	94.80	70	120	
Ge	72	1	No Gas	3025242	0.68	3298964	91.70	70	120	
In	115	1	No Gas	3705156	1.92	4167370	88.91	70	120	
Bi	209	1	No Gas	4022614	1.33	4579164	87.85	70	120	

Interference Check Solution AB (ICS-AB) Report

Sample Table

Sample Name	ICSAB
Data File Name	025ICSB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060724A.b
Acq Date Time	2024-06-07T11:21:51-05:00
Sample Type	ICSB
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Li	7	1	No Gas	103.278	3.602	1599328	2.14	100	103.3	180	120	ICSB Main CR1 Failed
Be	9	1	No Gas	95.948	3.021	378013	1.70	100	95.9	80	120	
V	51	2	He	102.181	3.451	861526	2.55	100	102.2	80	120	
Cr	52	2	He	101.001	3.413	956418	2.49	100	101.0	80	120	
Fe	56	2	He	107245.363	2.618	972462199	1.74	100	107245.4	80	120	
Se	78	2	He	101.848	3.230	14761	2.46	100	101.8	80	120	
As	75	2	He	102.888	2.913	168836	1.97	100	102.9	80	120	
Ca	44	2	He	105258.246	3.007	5511676	2.07	100	105258.2	80	120	
Na	23	2	He	110079.917	2.815	141108458	1.85	100	110079.9	80	120	
Mg	24	2	He	108784.562	3.036	88137919	2.19	100	108784.6	80	120	
K	39	2	He	107644.880	2.514	102945008	1.57	100	107644.9	80	120	
Mn	55	2	He	101.844	2.237	741448	1.44	100	101.8	80	120	
Co	59	2	He	99.011	2.411	1516445	1.53	100	99.0	80	120	
Ni	60	2	He	97.252	2.942	379152	2.09	100	97.3	80	120	
Cu	63	2	He	98.542	3.168	1026398	2.19	100	98.5	80	120	
Zn	66	2	He	102.604	4.442	209846	3.48	100	102.6	80	120	
Al	27	2	He	99675.329	3.463	51607206	2.51	100	99675.3	80	120	ICSB Main CR1 Failed
B	11	1	No Gas	521.737	2.505	1240151	1.17	100	521.7	80	120	
Al	27	1	No Gas	98031.420	3.371	1748504614	1.02	100	98031.4	80	120	ICSB Main CR1 Failed
Si	28	1	No Gas	547.914	2.631	4829759	0.58	100	547.9	80	120	
Ag	107	1	No Gas	107.751	2.739	2782093	0.89	100	107.8	80	120	
Cd	111	1	No Gas	103.380	3.901	525221	1.99	100	103.4	80	120	
Sr	88	1	No Gas	106.928	2.891	4859096	1.26	100	106.9	80	120	
Mo	95	1	No Gas	2135.951	2.995	20382155	1.06	100	2136.0	80	120	ICSB Main CR1 Failed
Sn	118	1	No Gas	104.801	3.435	1725040	1.80	100	104.8	80	120	
Sb	121	1	No Gas	105.952	4.163	2501689	2.05	100	106.0	80	120	
Ba	137	1	No Gas	105.733	3.946	888575	2.11	100	105.7	80	120	
Tl	205	1	No Gas	89.427	3.582	5261018	2.13	100	89.4	80	120	
Tl	203	1	No Gas	89.185	3.206	2153727	1.76	100	89.2	80	120	
Pb	208	1	No Gas	105.875	3.138	8372490	1.68	100	105.9	80	120	
U	238	1	No Gas	105.486	2.758	9075858	1.32	100	105.5	80	120	
Ca	43	2	He	103386.296	3.739	317391	2.82	100	103386.3	80	120	
Sb	121	2	He	103.951	3.482	1229270	2.51	100	104.0	80	120	
Ti	47	2	He	2038.701	3.182	634098	2.52	100	2038.7	80	120	
Cu	63	1	No Gas	99.416	3.880	1828832	1.52	100	99.4	80	120	
Se	82	1	No Gas	105.988	4.197	33215	1.98	100	106.0	80	120	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1011336	1.33	1125077	89.89	70	120	
Ge	72	2	He	1019821	0.99	1043230	97.76	70	120	
Ge	72	1	No Gas	3104098	2.39	3298964	94.09	70	120	
In	115	1	No Gas	3782675	1.95	4167370	90.77	70	120	
Bi	209	1	No Gas	4075931	1.45	4579164	89.01	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	030_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060724A.b
Acq Date Time	2024-06-07T11:36:19-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	98.623	2.836	1548702	1.60	100	98.6	90	110	
Be	9	1	No Gas	96.819	3.824	386113	2.69	100	96.8	90	110	
V	51	2	He	97.969	0.604	835661	1.20	100	98.0	90	110	
Cr	52	2	He	98.949	1.469	947985	2.02	100	98.9	90	110	
Fe	56	2	He	10056.030	1.562	92254092	2.55	10000	100.6	90	110	
Se	78	2	He	96.075	0.561	14093	1.13	100	96.1	90	110	
As	75	2	He	98.274	0.823	163136	1.48	100	98.3	90	110	
Ca	44	2	He	9721.094	0.954	515626	1.96	10000	97.2	90	110	
Na	23	2	He	9949.026	0.867	12963264	1.21	10000	99.5	90	110	
Mg	24	2	He	9936.043	0.510	8143449	1.38	10000	99.4	90	110	
K	39	2	He	9882.471	0.733	9635804	1.67	10000	98.8	90	110	
Mn	55	2	He	99.713	1.889	734347	2.85	100	99.7	90	110	
Co	59	2	He	99.252	1.288	1537479	0.92	100	99.3	90	110	
Ni	60	2	He	98.456	0.736	388246	1.04	100	98.5	90	110	
Cu	63	2	He	98.932	1.862	1042255	1.53	100	98.9	90	110	
Zn	66	2	He	98.609	0.375	204064	0.82	100	98.6	90	110	
Al	27	2	He	97.997	2.064	52866	2.73	100	98.0	90	110	
B	11	1	No Gas	496.712	2.569	1195832	1.41	500	99.3	90	110	
Al	27	1	No Gas	98.070	2.466	1849533	2.08	100	98.1	90	110	
Si	28	1	No Gas	483.088	2.013	4450726	1.41	5000	9.7	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	98.544	2.796	2744622	1.58	100	98.5	90	110	
Cd	111	1	No Gas	96.545	2.763	529163	1.52	100	96.5	90	110	
Sr	88	1	No Gas	98.001	2.785	4803946	1.61	100	98.0	90	110	
Mo	95	1	No Gas	97.379	2.719	1002586	1.54	100	97.4	90	110	
Sn	118	1	No Gas	98.990	2.784	1757981	1.69	100	99.0	90	110	
Sb	121	1	No Gas	100.006	2.386	2428066	2.12	100	100.0	90	110	
Ba	137	1	No Gas	98.167	2.941	890071	1.79	100	98.2	90	110	
Tl	205	1	No Gas	97.858	1.534	6355744	2.14	100	97.9	90	110	
Tl	203	1	No Gas	97.470	1.892	2598448	2.30	100	97.5	90	110	
Pb	208	1	No Gas	97.206	1.862	8486702	2.49	100	97.2	90	110	
U	238	1	No Gas	97.479	0.775	9258424	1.39	100	97.5	90	110	
Ca	43	2	He	9860.879	3.067	30688	4.01	10000	98.6	90	110	
Sb	121	2	He	97.740	1.116	1169146	1.19	100	97.7	90	110	
Ti	47	2	He	95.509	1.641	30063	2.61	100	95.5	90	110	
Cu	63	1	No Gas	99.448	1.828	1881115	1.49	100	99.4	90	110	
Se	82	1	No Gas	97.438	2.589	31460	2.22	100	97.4	90	110	
Zr	90	1	No Gas	95.567	2.347	3084161	1.10	100	95.6	90	110	
Zr	90	2	He	96.024	1.704	1362850	1.73	100	96.0	90	110	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1023733	1.12	1125077	90.99	70	120	
Ge	72	2	He	1031366	1.00	1043230	98.86	70	120	
Ge	72	1	No Gas	3189985	0.34	3298964	96.70	70	120	
In	115	1	No Gas	4079750	1.24	4167370	97.90	70	120	
Bi	209	1	No Gas	4498124	0.62	4579164	98.23	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	031_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060724A.b
Acq Date Time	2024-06-07T11:38:44-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	0.314	14.5	65794	0.8	0.5	
Be	9	1	No Gas	0.313	17.9	1363	16.7	0.5	
V	51	2	He	0.035	70.6	3335	6.5	2.5	
Cr	52	2	He	-0.105	-16.3	7676	2.5	2.5	
Fe	56	2	He	16.951	13.4	174958	12.4	100	
Se	78	2	He	0.270	84.3	196	17.4	2	
As	75	2	He	0.115	12.1	500	4.8	2.5	
Ca	44	2	He	26.737	11.8	2250	7.4	100	
Na	23	2	He	20.638	12.9	98921	3.7	100	
Mg	24	2	He	13.449	14.5	11815	14.1	100	
K	39	2	He	18.646	14.5	104348	2.7	100	
Mn	55	2	He	0.277	11.5	2620	9.4	2.5	
Co	59	2	He	0.124	14.7	2314	12.8	2.5	
Ni	60	2	He	0.386	20.4	2020	15.6	2.5	
Cu	63	2	He	0.165	22.3	2964	13.7	2	
Zn	66	2	He	1.106	4.7	3711	2.7	2.5	
Al	27	2	He	0.189	243.8	1683	14.8	5	
B	11	1	No Gas	2.909	26.3	21884	8.2	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	0.203	52.7	56310	1.7	5	
Si	28	1	No Gas	-10.290	-13.7	551449	0.5	10	
Ag	107	1	No Gas	0.241	21.6	7863	17.2	2.5	
Cd	111	1	No Gas	0.282	27.8	1618	25.7	1	
Sr	88	1	No Gas	0.295	20.0	16964	15.8	2.5	
Mo	95	1	No Gas	0.411	28.8	4584	25.6	2.5	
Sn	118	1	No Gas	0.402	19.8	12916	9.6	5	
Sb	121	1	No Gas	0.533	22.0	13768	19.2	2.5	
Ba	137	1	No Gas	0.247	21.0	3080	14.0	2.5	
Tl	205	1	No Gas	0.334	23.2	24428	21.1	1	
Tl	203	1	No Gas	0.335	22.2	10064	20.1	1	
Pb	208	1	No Gas	0.328	15.5	33929	13.2	2.5	
U	238	1	No Gas	0.281	20.7	28441	19.7	2.5	
Ca	43	2	He	20.556	57.3	133	28.4	100	
Sb	121	2	He	0.311	14.1	4047	13.5	2.5	
Ti	47	2	He	0.164	71.0	67	56.8	2.5	
Cu	63	1	No Gas	0.351	13.0	8850	7.9	2.5	
Se	82	1	No Gas	0.009	3340.5	800	9.9	2	
Zr	90	1	No Gas	0.478	16.5	17415	13.2	2.5	
Zr	90	2	He	0.263	15.6	5365	11.4	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1083858	0.78	1125077	96.34	70	120	
Ge	72	2	He	1059531	0.30	1043230	101.56	70	120	
Ge	72	1	No Gas	3277269	2.19	3298964	99.34	70	120	

Continuing Calibration Blank (CCB) Report

In	115	1	No Gas	4227048	1.92	4167370	101.43	70	120	
Bi	209	1	No Gas	4712694	0.98	4579164	102.92	70	120	

Sample Report

Sample Table

Sample Name	MBLK-213120
Data File Name	032SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060724A.b
Acq Date Time	2024-06-07T11:41:23-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 213120
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	-0.033	-0.033	-223.02	59945	0.00	2000	
Be	9	1	No Gas	0.034	0.034	7.32	187	0.02	2000	
V	51	2	He	-0.128	-0.128	-8.67	1890	-0.01	2000	
Cr	52	2	He	-0.280	-0.280	-7.06	5891	0.00	2000	
Fe	56	2	He	1.413	1.413	10.52	28216	0.01	200000	
Se	78	2	He	0.167	0.167	57.08	179	0.09	2000	
As	75	2	He	-0.011	-0.011	-152.60	283	0.00	2000	
Ca	44	2	He	2.030	2.030	107.83	897	0.23	200000	
Na	23	2	He	12.476	12.476	7.96	87047	0.01	200000	
Mg	24	2	He	0.727	0.727	11.54	1090	0.07	200000	
K	39	2	He	6.030	6.030	7.34	90767	0.01	200000	
Mn	55	2	He	0.033	0.033	31.74	763	0.00	2000	
Co	59	2	He	-0.001	-0.001	-322.22	333	0.00	2000	
Ni	60	2	He	0.054	0.054	22.41	670	0.01	2000	
Cu	63	2	He	-0.014	-0.014	-21.29	1020	0.00	2000	
Zn	66	2	He	0.057	0.057	139.50	1477	0.00	2000	
Al	27	2	He	-1.157	-1.157	-22.53	947	-0.12	2000	
B	11	1	No Gas	-0.834	-0.834	-17.01	12399	-0.01	2000	
Al	27	1	No Gas	-1.149	-1.149	-1.35	30567	0.00	2000	
Si	28	1	No Gas	-11.202	-11.202	-9.08	538848	0.00	2000	
Ag	107	1	No Gas	-0.013	-0.013	-32.79	550	0.00	2000	
Cd	111	1	No Gas	0.007	0.007	94.41	59	0.01	2000	
Sr	88	1	No Gas	-0.009	-0.009	-39.66	1560	0.00	2000	
Mo	95	1	No Gas	0.063	0.063	25.83	887	0.01	2000	
Sn	118	1	No Gas	-0.052	-0.052	-35.33	4564	0.00	2000	
Sb	121	1	No Gas	0.092	0.092	18.24	2794	0.00	2000	
Ba	137	1	No Gas	-0.054	-0.054	-21.55	267	-0.02	2000	
Tl	205	1	No Gas	0.026	0.026	38.38	3534	0.00	2000	
Tl	203	1	No Gas	0.025	0.025	16.71	1437	0.00	2000	
Pb	208	1	No Gas	0.016	0.016	17.44	5518	0.00	2000	
U	238	1	No Gas	0.014	0.014	29.64	2007	0.00	2000	
Ca	43	2	He	-7.481	-7.481	-106.03	43	-17.26	200000	
Sb	121	2	He	0.090	0.090	8.97	1327	0.01	2000	
Ti	47	2	He	-0.011	-0.011	-289.67	10	-0.11	2000	
Cu	63	1	No Gas	-0.004	-0.004	-120.27	1964	0.00	2000	
Ca	44	1	No Gas	-10.583	-10.583	-13.41	31409	-0.03	200000	
Zn	66	1	No Gas	0.159	0.159	24.81	4017	0.00	2000	
Se	82	1	No Gas	-0.287	-0.287	-101.02	700	-0.04	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1078874	1.53	1125077	95.89	70	120	
Ge	72	2	He	1047402	1.23	1043230	100.40	70	120	
Ge	72	1	No Gas	3245801	2.01	3298964	98.39	70	120	

Sample Report

In	115	1	No Gas	4199794	1.85	4167370	100.78	70	120	
Bi	209	1	No Gas	4776543	1.14	4579164	104.31	70	120	

Sample Report

Sample Table

Sample Name	LCS-213120
Data File Name	033SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060724A.b
Acq Date Time	2024-06-07T11:43:48-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 213120
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	0.052	0.052	88.29	58436	0.00	2000	
Be	9	1	No Gas	45.471	45.471	3.45	182207	0.02	2000	
V	51	2	He	48.180	48.180	1.72	414404	0.01	2000	
Cr	52	2	He	49.563	49.563	1.43	481313	0.01	2000	
Fe	56	2	He	5101.114	5101.114	1.84	47019776	0.01	200000	
Se	78	2	He	48.839	48.839	2.03	7273	0.67	2000	
As	75	2	He	48.407	48.407	2.30	80881	0.06	2000	
Ca	44	2	He	4898.502	4898.502	3.66	261403	1.87	200000	
Na	23	2	He	5085.715	5085.715	2.04	6691832	0.08	200000	
Mg	24	2	He	5011.185	5011.185	1.94	4126523	0.12	200000	
K	39	2	He	4928.913	4928.913	2.20	4870270	0.10	200000	
Mn	55	2	He	49.059	49.059	2.45	363204	0.01	2000	
Co	59	2	He	48.476	48.476	1.51	754682	0.01	2000	
Ni	60	2	He	48.366	48.366	1.16	191861	0.03	2000	
Cu	63	2	He	50.375	50.375	1.54	533817	0.01	2000	
Zn	66	2	He	50.497	50.497	2.45	105645	0.05	2000	
Al	27	2	He	53.857	53.857	1.62	29885	0.18	2000	
B	11	1	No Gas	-0.416	-0.416	-27.73	12819	0.00	2000	
Al	27	1	No Gas	50.609	50.609	1.76	988643	0.01	2000	
Si	28	1	No Gas	134.557	134.557	1.48	1702202	0.01	2000	
Ag	107	1	No Gas	43.700	43.700	1.66	1231091	0.00	2000	
Cd	111	1	No Gas	47.517	47.517	2.46	263330	0.02	2000	
Sr	88	1	No Gas	0.093	0.093	10.03	6562	0.00	2000	
Mo	95	1	No Gas	45.975	45.975	1.68	478699	0.01	2000	
Sn	118	1	No Gas	0.258	0.258	5.46	10047	0.00	2000	
Sb	121	1	No Gas	48.260	48.260	0.90	1183282	0.00	2000	
Ba	137	1	No Gas	46.955	46.955	1.70	430837	0.01	2000	
Tl	205	1	No Gas	42.775	42.775	1.78	2758236	0.00	2000	
Tl	203	1	No Gas	42.441	42.441	1.95	1123328	0.00	2000	
Pb	208	1	No Gas	48.265	48.265	1.05	4184143	0.00	2000	
U	238	1	No Gas	47.444	47.444	0.77	4472849	0.00	2000	
Ca	43	2	He	4846.785	4846.785	1.64	15185	31.92	200000	
Sb	121	2	He	49.075	49.075	1.95	589908	0.01	2000	
Ti	47	2	He	0.053	0.053	119.69	30	0.18	2000	
Cu	63	1	No Gas	48.200	48.200	1.32	921571	0.01	2000	
Ca	44	1	No Gas	4882.316	4882.316	1.42	3408008	0.14	200000	
Zn	66	1	No Gas	49.400	49.400	0.59	268228	0.02	2000	
Se	82	1	No Gas	47.912	47.912	2.84	16020	0.30	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1028351	0.61	1125077	91.40	70	120	
Ge	72	2	He	1036292	0.71	1043230	99.33	70	120	
Ge	72	1	No Gas	3220695	0.47	3298964	97.63	70	120	

Sample Report

In	115	1	No Gas	4124261	0.77	4167370	98.97	70	120	
Bi	209	1	No Gas	4464864	0.57	4579164	97.50	70	120	

Sample Report

Sample Table

Sample Name	HS24052045-03SD
Data File Name	034SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060724A.b
Acq Date Time	2024-06-07T11:46:12-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 213120
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	21.592	21.592	2.93	391267	0.01	2000	
Be	9	1	No Gas	0.138	0.138	24.57	603	0.02	2000	
V	51	2	He	1.152	1.152	2.96	12888	0.01	2000	
Cr	52	2	He	221.658	221.658	1.41	2138407	0.01	2000	
Fe	56	2	He	2026.367	2026.367	0.98	18823051	0.01	200000	
Se	78	2	He	0.240	0.240	92.06	189	0.13	2000	
As	75	2	He	0.217	0.217	16.64	663	0.03	2000	
Ca	44	2	He	25349.956	25349.956	2.03	1359407	1.86	200000	
Na	23	2	He	68372.115	68372.115	1.82	89743205	0.08	200000	
Mg	24	2	He	17193.059	17193.059	2.00	14259720	0.12	200000	
K	39	2	He	138.134	138.134	3.18	219670	0.06	200000	
Mn	55	2	He	202.765	202.765	2.04	1510494	0.01	2000	
Co	59	2	He	4.727	4.727	1.43	74431	0.01	2000	
Ni	60	2	He	199.703	199.703	1.35	796489	0.03	2000	
Cu	63	2	He	3.903	3.903	1.92	42727	0.01	2000	
Zn	66	2	He	1.186	1.186	13.42	3821	0.03	2000	
Al	27	2	He	5.629	5.629	9.14	4541	0.12	2000	
B	11	1	No Gas	0.779	0.779	15.78	15909	0.00	2000	
Al	27	1	No Gas	5.586	5.586	6.44	156639	0.00	2000	
Si	28	1	No Gas	3476.914	3476.914	3.10	28745227	0.01	2000	>LDR
Ag	107	1	No Gas	0.091	0.091	14.84	3431	0.00	2000	
Cd	111	1	No Gas	0.133	0.133	10.52	748	0.02	2000	
Sr	88	1	No Gas	530.270	530.270	3.66	26015281	0.00	2000	
Mo	95	1	No Gas	2.074	2.074	4.75	21584	0.01	2000	
Sn	118	1	No Gas	0.003	0.003	152.87	5431	0.00	2000	
Sb	121	1	No Gas	0.198	0.198	10.63	5408	0.00	2000	
Ba	137	1	No Gas	4.553	4.553	3.25	42044	0.01	2000	
Tl	205	1	No Gas	0.257	0.257	33.31	18101	0.00	2000	
Tl	203	1	No Gas	0.268	0.268	32.46	7703	0.00	2000	
Pb	208	1	No Gas	0.175	0.175	12.83	18849	0.00	2000	
U	238	1	No Gas	0.397	0.397	7.35	37765	0.00	2000	
Ca	43	2	He	25705.120	25705.120	1.85	80834	31.80	200000	
Sb	121	2	He	0.148	0.148	1.58	2014	0.01	2000	
Ti	47	2	He	0.230	0.230	41.91	87	0.27	2000	
Cu	63	1	No Gas	4.242	4.242	3.15	83737	0.01	2000	
Ca	44	1	No Gas	25444.894	25444.894	3.52	17767635	0.14	200000	
Zn	66	1	No Gas	1.283	1.283	0.64	10121	0.01	2000	
Se	82	1	No Gas	0.159	0.159	118.73	843	0.02	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1043423	1.29	1125077	92.74	70	120	
Ge	72	2	He	1043744	0.19	1043230	100.05	70	120	
Ge	72	1	No Gas	3252586	1.59	3298964	98.59	70	120	

Sample Report

In	115	1	No Gas	4085808	2.20	4167370	98.04	70	120	
Bi	209	1	No Gas	4443968	1.25	4579164	97.05	70	120	

Sample Report

Sample Table

Sample Name	HS24052045-03MS
Data File Name	036SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060724A.b
Acq Date Time	2024-06-07T11:51:11-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 213120
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	104.580	104.580	0.93	1671196	0.01	2000	
Be	9	1	No Gas	44.764	44.764	2.34	182070	0.02	2000	
V	51	2	He	51.602	51.602	3.76	433557	0.01	2000	
Cr	52	2	He	1155.572	1155.572	3.34	10781332	0.01	2000	
Fe	56	2	He	14768.858	14768.858	3.03	133013105	0.01	200000	
Se	78	2	He	47.199	47.199	2.58	6874	0.69	2000	
As	75	2	He	48.283	48.283	3.60	78845	0.06	2000	
Ca	44	2	He	132490.638	132490.638	3.54	6890241	1.92	200000	
Na	23	2	He	346314.212	346314.212	2.16	440737073	0.08	200000	>LDR
Mg	24	2	He	90128.075	90128.075	3.15	72523486	0.12	200000	
K	39	2	He	5337.634	5337.634	2.55	5147477	0.10	200000	
Mn	55	2	He	1059.813	1059.813	3.30	7657911	0.01	2000	
Co	59	2	He	67.161	67.161	3.68	1021688	0.01	2000	
Ni	60	2	He	1022.014	1022.014	4.06	3953146	0.03	2000	
Cu	63	2	He	63.174	63.174	3.77	653946	0.01	2000	
Zn	66	2	He	48.442	48.442	5.49	99107	0.05	2000	
Al	27	2	He	72.470	72.470	4.36	38777	0.19	2000	
B	11	1	No Gas	8.445	8.445	5.38	34522	0.02	2000	
Al	27	1	No Gas	73.641	73.641	0.68	1387859	0.01	2000	
Si	28	1	No Gas	17289.033	17289.033	0.83	136419578	0.01	2000	>LDR
Ag	107	1	No Gas	40.813	40.813	0.66	1103613	0.00	2000	
Cd	111	1	No Gas	45.493	45.493	0.85	241987	0.02	2000	
Sr	88	1	No Gas	2626.308	2626.308	0.71	124885275	0.00	2000	>LDR
Mo	95	1	No Gas	55.636	55.636	0.30	555961	0.01	2000	
Sn	118	1	No Gas	0.383	0.383	3.51	11775	0.00	2000	
Sb	121	1	No Gas	47.348	47.348	0.83	1138593	0.00	2000	
Ba	137	1	No Gas	68.190	68.190	0.40	600211	0.01	2000	
Tl	205	1	No Gas	42.394	42.394	0.75	2496498	0.00	2000	
Tl	203	1	No Gas	41.949	41.949	0.34	1013993	0.00	2000	
Pb	208	1	No Gas	48.178	48.178	1.16	3814059	0.00	2000	
U	238	1	No Gas	50.173	50.173	0.79	4319617	0.00	2000	
Ca	43	2	He	132600.247	132600.247	3.77	404307	32.80	200000	
Sb	121	2	He	46.610	46.610	2.88	547558	0.01	2000	
Ti	47	2	He	1.274	1.274	12.48	407	0.31	2000	
Cu	63	1	No Gas	65.162	65.162	1.26	1221191	0.01	2000	
Ca	44	1	No Gas	130387.651	130387.651	1.22	88292675	0.15	200000	
Zn	66	1	No Gas	48.985	48.985	1.24	260873	0.02	2000	
Se	82	1	No Gas	49.258	49.258	3.49	16130	0.31	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1043815	0.87	1125077	92.78	70	120	
Ge	72	2	He	1012562	0.51	1043230	97.06	70	120	
Ge	72	1	No Gas	3158749	0.58	3298964	95.75	70	120	
In	115	1	No Gas	3958246	0.33	4167370	94.98	70	120	
Bi	209	1	No Gas	4077363	0.60	4579164	89.04	70	120	

Sample Report

Sample Table

Sample Name	HS24052045-03MSD
Data File Name	037SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060724A.b
Acq Date Time	2024-06-07T11:53:46-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 213120
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	104.299	104.299	1.26	1677125	0.01	2000	
Be	9	1	No Gas	44.900	44.900	1.42	183759	0.02	2000	
V	51	2	He	51.906	51.906	2.94	442329	0.01	2000	
Cr	52	2	He	1165.980	1165.980	3.22	11033959	0.01	2000	
Fe	56	2	He	14868.531	14868.531	3.18	135827071	0.01	200000	
Se	78	2	He	47.994	47.994	4.03	7087	0.68	2000	
As	75	2	He	48.614	48.614	2.81	80520	0.06	2000	
Ca	44	2	He	133505.706	133505.706	2.68	7042414	1.90	200000	
Na	23	2	He	348529.247	348529.247	2.00	449937767	0.08	200000	>LDR
Mg	24	2	He	91266.500	91266.500	3.34	74490049	0.12	200000	
K	39	2	He	5358.514	5358.514	2.46	5241492	0.10	200000	
Mn	55	2	He	1074.533	1074.533	3.34	7875257	0.01	2000	
Co	59	2	He	67.993	67.993	3.48	1049130	0.01	2000	
Ni	60	2	He	1029.101	1029.101	2.85	4037455	0.03	2000	
Cu	63	2	He	63.071	63.071	3.37	662213	0.01	2000	
Zn	66	2	He	48.026	48.026	4.97	99664	0.05	2000	
Al	27	2	He	72.371	72.371	2.80	39282	0.18	2000	
B	11	1	No Gas	8.136	8.136	2.29	33975	0.02	2000	
Al	27	1	No Gas	72.729	72.729	2.45	1400488	0.01	2000	
Si	28	1	No Gas	17251.637	17251.637	1.06	139036935	0.01	2000	>LDR
Ag	107	1	No Gas	40.661	40.661	1.82	1124012	0.00	2000	
Cd	111	1	No Gas	45.545	45.545	2.16	247655	0.02	2000	
Sr	88	1	No Gas	2602.527	2602.527	1.58	126515148	0.00	2000	>LDR
Mo	95	1	No Gas	55.189	55.189	1.85	563787	0.01	2000	
Sn	118	1	No Gas	0.374	0.374	4.37	11895	0.00	2000	
Sb	121	1	No Gas	47.141	47.141	1.12	1157855	0.00	2000	
Ba	137	1	No Gas	67.915	67.915	1.98	611118	0.01	2000	
Tl	205	1	No Gas	42.008	42.008	1.39	2548622	0.00	2000	
Tl	203	1	No Gas	42.043	42.043	1.01	1047026	0.00	2000	
Pb	208	1	No Gas	47.919	47.919	1.61	3908398	0.00	2000	
U	238	1	No Gas	49.870	49.870	0.82	4423803	0.00	2000	
Ca	43	2	He	132228.601	132228.601	4.10	408924	32.34	200000	
Sb	121	2	He	46.752	46.752	2.06	557118	0.01	2000	
Ti	47	2	He	1.224	1.224	28.91	397	0.31	2000	
Cu	63	1	No Gas	64.580	64.580	1.54	1236161	0.01	2000	
Ca	44	1	No Gas	130069.520	130069.520	1.33	89960515	0.14	200000	
Zn	66	1	No Gas	48.409	48.409	1.41	263353	0.02	2000	
Se	82	1	No Gas	49.605	49.605	2.35	16584	0.30	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1050308	1.40	1125077	93.35	70	120	
Ge	72	2	He	1027281	0.57	1043230	98.47	70	120	
Ge	72	1	No Gas	3226417	1.02	3298964	97.80	70	120	
In	115	1	No Gas	4047277	1.66	4167370	97.12	70	120	
Bi	209	1	No Gas	4201021	1.10	4579164	91.74	70	120	

Sample Report

Sample Table

Sample Name	HS24052045-03PDS
Data File Name	038SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060724A.b
Acq Date Time	2024-06-07T11:56:21-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 213120
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	103.159	103.159	1.46	1622129	0.01	2000	
Be	9	1	No Gas	91.279	91.279	1.83	365131	0.02	2000	
V	51	2	He	101.917	101.917	3.66	861775	0.01	2000	
Cr	52	2	He	1190.759	1190.759	4.63	11216649	0.01	2000	
Fe	56	2	He	19797.426	19797.426	4.93	180016111	0.01	200000	
Se	78	2	He	98.035	98.035	4.63	14253	0.69	2000	
As	75	2	He	97.883	97.883	2.65	161109	0.06	2000	
Ca	44	2	He	135139.194	135139.194	3.06	7096729	1.90	200000	
Na	23	2	He	349758.514	349758.514	3.12	449496647	0.08	200000	>LDR
Mg	24	2	He	94240.088	94240.088	4.05	76568724	0.12	200000	
K	39	2	He	10273.530	10273.530	3.55	9927770	0.10	200000	
Mn	55	2	He	1101.033	1101.033	5.10	8032284	0.01	2000	
Co	59	2	He	114.907	114.907	3.49	1764842	0.01	2000	
Ni	60	2	He	1055.846	1055.846	4.08	4123568	0.03	2000	
Cu	63	2	He	111.360	111.360	4.30	1163039	0.01	2000	
Zn	66	2	He	95.811	95.811	3.69	196617	0.05	2000	
Al	27	2	He	119.816	119.816	5.59	63729	0.19	2000	
B	11	1	No Gas	7.751	7.751	4.56	32290	0.02	2000	
Al	27	1	No Gas	121.382	121.382	2.02	2243725	0.01	2000	
Si	28	1	No Gas	17027.730	17027.730	2.15	133702601	0.01	2000	>LDR
Ag	107	1	No Gas	82.492	82.492	1.66	2255781	0.00	2000	
Cd	111	1	No Gas	93.136	93.136	2.62	501144	0.02	2000	
Sr	88	1	No Gas	2567.704	2567.704	3.39	123501061	0.00	2000	>LDR
Mo	95	1	No Gas	103.634	103.634	2.42	1047416	0.01	2000	
Sn	118	1	No Gas	0.388	0.388	5.49	12012	0.00	2000	
Sb	121	1	No Gas	86.993	86.993	1.99	2081205	0.00	2000	
Ba	137	1	No Gas	116.501	116.501	2.44	1036841	0.01	2000	
Tl	205	1	No Gas	97.084	97.084	1.31	5867042	0.00	2000	
Tl	203	1	No Gas	96.704	96.704	1.90	2398689	0.00	2000	
Pb	208	1	No Gas	97.916	97.916	2.00	7953812	0.00	2000	
U	238	1	No Gas	100.365	100.365	1.86	8869681	0.00	2000	
Ca	43	2	He	134598.843	134598.843	3.80	414393	32.48	200000	
Sb	121	2	He	85.466	85.466	3.47	1013660	0.01	2000	
Ti	47	2	He	1.703	1.703	24.90	543	0.31	2000	
Cu	63	1	No Gas	111.403	111.403	2.32	2076072	0.01	2000	
Ca	44	1	No Gas	133866.625	133866.625	1.86	90202962	0.15	200000	
Zn	66	1	No Gas	95.661	95.661	2.10	504037	0.02	2000	
Se	82	1	No Gas	98.468	98.468	1.36	31323	0.31	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1026646	0.70	1125077	91.25	70	120	
Ge	72	2	He	1022847	1.24	1043230	98.05	70	120	
Ge	72	1	No Gas	3143605	1.30	3298964	95.29	70	120	
In	115	1	No Gas	4005055	1.48	4167370	96.11	70	120	
Bi	209	1	No Gas	4186015	1.18	4579164	91.41	70	120	

Sample Report

Sample Table

Sample Name	HS24051535-03
Data File Name	039SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060724A.b
Acq Date Time	2024-06-07T11:58:57-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 213120
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	148.575	148.575	1.73	2283174	0.01	2000	
Be	9	1	No Gas	0.327	0.327	18.76	1330	0.02	2000	
V	51	2	He	1.356	1.356	0.35	13957	0.01	2000	
Cr	52	2	He	2.041	2.041	10.01	26853	0.01	2000	
Fe	56	2	He	2601.371	2601.371	2.69	23028565	0.01	200000	
Se	78	2	He	0.817	0.817	20.98	261	0.31	2000	
As	75	2	He	2.747	2.747	5.70	4676	0.06	2000	
Ca	44	2	He	294040.638	294040.638	1.48	15021836	1.96	200000	>LDR
Na	23	2	He	740488.862	740488.862	1.82	925750600	0.08	200000	>LDR
Mg	24	2	He	144833.031	144833.031	2.50	114489878	0.13	200000	
K	39	2	He	1234.595	1234.595	1.60	1231657	0.10	200000	
Mn	55	2	He	2294.344	2294.344	2.46	16286120	0.01	2000	>LDR
Co	59	2	He	1.394	1.394	6.36	21157	0.01	2000	
Ni	60	2	He	3.605	3.605	6.43	14128	0.03	2000	
Cu	63	2	He	0.522	0.522	15.21	6408	0.01	2000	
Zn	66	2	He	6.598	6.598	4.11	14374	0.05	2000	
Al	27	2	He	26.070	26.070	3.55	14655	0.18	2000	
B	11	1	No Gas	29.719	29.719	2.25	83706	0.04	2000	
Al	27	1	No Gas	25.664	25.664	4.03	504064	0.01	2000	
Si	28	1	No Gas	16464.841	16464.841	2.92	126794825	0.01	2000	>LDR
Ag	107	1	No Gas	0.140	0.140	17.27	4488	0.00	2000	
Cd	111	1	No Gas	0.296	0.296	11.45	1543	0.02	2000	
Sr	88	1	No Gas	6843.220	6843.220	1.92	315286335	0.00	2000	>LDR
Mo	95	1	No Gas	0.700	0.700	9.52	6969	0.01	2000	
Sn	118	1	No Gas	0.260	0.260	7.64	9380	0.00	2000	
Sb	121	1	No Gas	0.946	0.946	16.44	22627	0.00	2000	
Ba	137	1	No Gas	33.380	33.380	2.74	285015	0.01	2000	
Tl	205	1	No Gas	0.191	0.191	27.53	12086	0.00	2000	
Tl	203	1	No Gas	0.193	0.193	30.42	4998	0.00	2000	
Pb	208	1	No Gas	0.323	0.323	12.16	27479	0.00	2000	
U	238	1	No Gas	21.312	21.312	1.36	1741346	0.00	2000	
Ca	43	2	He	287288.818	287288.818	2.20	860471	33.39	200000	>LDR
Sb	121	2	He	0.694	0.694	1.15	8219	0.01	2000	
Ti	47	2	He	1.364	1.364	5.78	427	0.32	2000	
Cu	63	1	No Gas	3.279	3.279	3.96	61786	0.01	2000	
Ca	44	1	No Gas	280757.195	280757.195	2.06	185492077	0.15	200000	>LDR
Zn	66	1	No Gas	7.390	7.390	2.65	40955	0.02	2000	
Se	82	1	No Gas	4.096	4.096	15.61	1997	0.21	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1014550	2.67	1125077	90.18	70	120	
Ge	72	2	He	994881	0.34	1043230	95.37	70	120	
Ge	72	1	No Gas	3083461	2.56	3298964	93.47	70	120	
In	115	1	No Gas	3836055	1.86	4167370	92.05	70	120	
Bi	209	1	No Gas	3869299	0.88	4579164	84.50	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	042_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060724A.b
Acq Date Time	2024-06-07T12:08:14-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	97.041	2.011	1585040	1.45	100	97.0	90	110	
Be	9	1	No Gas	95.567	2.209	396204	1.64	100	95.6	90	110	
V	51	2	He	98.693	1.845	872141	2.99	100	98.7	90	110	
Cr	52	2	He	99.613	2.288	988701	3.53	100	99.6	90	110	
Fe	56	2	He	9943.048	0.128	94483182	1.40	10000	99.4	90	110	
Se	78	2	He	95.966	2.215	14582	2.44	100	96.0	90	110	
As	75	2	He	96.562	1.302	166059	2.20	100	96.6	90	110	
Ca	44	2	He	9754.690	1.808	535888	1.36	10000	97.5	90	110	
Na	23	2	He	10098.314	0.746	13629964	2.04	10000	101.0	90	110	
Mg	24	2	He	10014.170	0.412	8502142	1.66	10000	100.1	90	110	
K	39	2	He	9797.029	1.387	9894994	1.18	10000	98.0	90	110	
Mn	55	2	He	99.018	1.110	755383	2.38	100	99.0	90	110	
Co	59	2	He	98.151	1.681	1575110	2.18	100	98.2	90	110	
Ni	60	2	He	98.206	2.238	401226	3.34	100	98.2	90	110	
Cu	63	2	He	99.172	2.551	1082567	3.75	100	99.2	90	110	
Zn	66	2	He	98.427	1.701	211031	2.94	100	98.4	90	110	
Al	27	2	He	99.590	0.951	55623	1.47	100	99.6	90	110	
B	11	1	No Gas	497.281	1.438	1244493	0.94	500	99.5	90	110	
Al	27	1	No Gas	96.281	2.977	1887620	1.58	100	96.3	90	110	
Si	28	1	No Gas	473.192	3.511	4542743	1.72	5000	9.5	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	97.895	2.857	2849359	2.06	100	97.9	90	110	
Cd	111	1	No Gas	97.068	3.647	555978	2.93	100	97.1	90	110	
Sr	88	1	No Gas	97.222	2.192	4980511	1.30	100	97.2	90	110	
Mo	95	1	No Gas	97.224	2.219	1046130	1.66	100	97.2	90	110	
Sn	118	1	No Gas	98.199	2.549	1822553	1.83	100	98.2	90	110	
Sb	121	1	No Gas	99.767	3.193	2516695	1.89	100	99.8	90	110	
Ba	137	1	No Gas	97.587	2.831	924727	2.40	100	97.6	90	110	
Tl	205	1	No Gas	97.156	3.579	6630716	2.43	100	97.2	90	110	
Tl	203	1	No Gas	97.440	3.205	2729746	2.06	100	97.4	90	110	
Pb	208	1	No Gas	97.258	3.088	8922828	1.96	100	97.3	90	110	
U	238	1	No Gas	95.958	2.120	9578402	1.06	100	96.0	90	110	
Ca	43	2	He	9733.305	0.977	31372	1.44	10000	97.3	90	110	
Sb	121	2	He	97.818	2.338	1212356	3.62	100	97.8	90	110	
Ti	47	2	He	99.814	1.547	32545	2.73	100	99.8	90	110	
Cu	63	1	No Gas	97.905	3.122	1924174	1.81	100	97.9	90	110	
Se	82	1	No Gas	98.884	2.030	33164	0.80	100	98.9	90	110	
Zr	90	1	No Gas	96.377	1.944	3250424	1.15	100	96.4	90	110	
Zr	90	2	He	97.365	2.329	1431787	3.63	100	97.4	90	110	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1064039	0.60	1125077	94.57	70	120	
Ge	72	2	He	1068384	1.29	1043230	102.41	70	120	
Ge	72	1	No Gas	3315135	1.32	3298964	100.49	70	120	
In	115	1	No Gas	4263223	0.95	4167370	102.30	70	120	
Bi	209	1	No Gas	4728220	1.20	4579164	103.26	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	043_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\060724A.b
Acq Date Time	2024-06-07T12:10:40-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	0.532	16.0	71711	1.2	0.5	CCB Main CR1 Failed
Be	9	1	No Gas	0.279	22.0	1265	20.3	0.5	
V	51	2	He	0.055	11.2	3612	2.5	2.5	
Cr	52	2	He	-0.079	-61.0	8169	5.5	2.5	
Fe	56	2	He	16.665	13.7	177706	13.3	100	
Se	78	2	He	0.217	50.9	194	9.4	2	
As	75	2	He	0.110	31.9	507	13.1	2.5	
Ca	44	2	He	23.446	15.7	2137	10.6	100	
Na	23	2	He	96.647	3.0	206339	2.7	100	
Mg	24	2	He	13.879	14.7	12563	14.9	100	
K	39	2	He	17.707	8.0	106624	2.1	100	
Mn	55	2	He	0.297	4.9	2857	4.9	2.5	
Co	59	2	He	0.127	21.8	2444	19.5	2.5	
Ni	60	2	He	0.362	14.6	1987	12.1	2.5	
Cu	63	2	He	0.167	16.6	3077	11.0	2	
Zn	66	2	He	1.097	10.7	3807	7.7	2.5	
Al	27	2	He	-0.099	-443.5	1577	16.5	5	
B	11	1	No Gas	2.829	28.9	22443	8.5	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	0.200	65.1	57802	2.1	5	
Si	28	1	No Gas	-14.267	-9.1	533273	0.6	10	
Ag	107	1	No Gas	0.245	23.1	8223	18.9	2.5	
Cd	111	1	No Gas	0.262	21.8	1555	20.3	1	
Sr	88	1	No Gas	0.293	20.1	17418	16.1	2.5	
Mo	95	1	No Gas	0.350	16.2	4081	14.2	2.5	
Sn	118	1	No Gas	0.294	23.0	11298	9.7	5	
Sb	121	1	No Gas	0.488	19.2	13000	16.1	2.5	
Ba	137	1	No Gas	0.255	24.5	3264	17.4	2.5	
Tl	205	1	No Gas	0.288	25.4	22438	22.6	1	
Tl	203	1	No Gas	0.300	23.7	9561	21.0	1	
Pb	208	1	No Gas	0.304	18.7	33391	15.7	2.5	
U	238	1	No Gas	0.263	21.7	28153	20.6	2.5	
Ca	43	2	He	7.063	233.0	93	59.0	100	
Sb	121	2	He	0.286	9.4	3867	9.4	2.5	
Ti	47	2	He	0.107	173.1	50	124.9	2.5	
Cu	63	1	No Gas	0.370	22.3	9463	15.0	2.5	
Se	82	1	No Gas	-0.002	-20519.1	820	14.4	2	
Zr	90	1	No Gas	0.487	21.4	18276	18.0	2.5	
Zr	90	2	He	0.272	7.8	5671	6.5	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1122067	0.95	1125077	99.73	70	120	
Ge	72	2	He	1092379	0.95	1043230	104.71	70	120	
Ge	72	1	No Gas	3367077	2.26	3298964	102.06	70	120	

Continuing Calibration Blank (CCB) Report

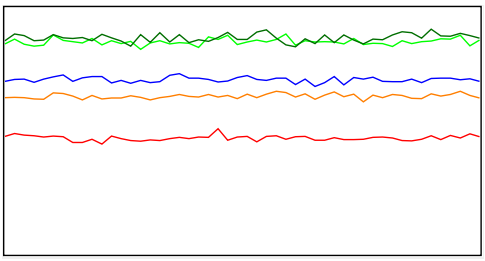
In	115	1	No Gas	4363399	1.64	4167370	104.70	70	120	
Bi	209	1	No Gas	4965829	1.36	4579164	108.44	70	120	

Tune Check Report

Operator Name	ALSHS NoUser
Acq/Data Batch	C:\Agilent\ICPMH\1\DATA\060724A.b
Acq. Date-Time	6/7/2024 9:30:56 AM
Report Comment	---
Instrument Name	G8422A SG22121190

[No Gas]

Sensitivity



Sampling Period [sec]	0.514
Integration Time [sec]	0.1

Mass	Range	Count	Resp [cps/(ug/L)]	Resp (Required) [cps/(ug/L)]	Resp (Flag)
9	10000	4711	47106.95		
24	20000	17234	172344.69		
59	50000	35409	354090.50		
115	100000	64071	640714.61		
208	50000	43888	438876.38		

Mass	Resp Ratio	Resp Ratio (Required)	Resp Ratio (Flag)
9		-	
24		-	
59		-	
115		-	
208		-	

Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	2.296	5.000	
24	1.524	5.000	
59	1.540	5.000	
115	1.497	5.000	
208	1.905	5.000	

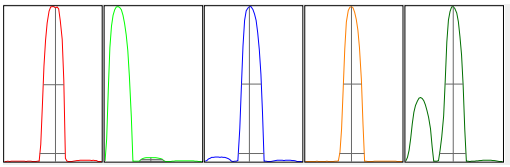
Mass	Background	Background (Required)	Background (Flag)
9	1.200		
24	1.700		
59	0.400		
115	1.000		
208	1.200		

Oxide/Doubly Charged Ratio

Oxide	156 / 140 0.968 %
Doubly Charged	70 / 140 0.807 %

Tune Check Report

Resolution/Axis



Integration Time [sec]	0.1
Acquisition Time [sec]	37.4
Y Axis	Linear

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	4658.22	9.10	8.90 - 9.10	
24	17457.20	23.95	23.90 - 24.10	
59	36326.33	58.90	58.90 - 59.10	
115	65582.17	114.95	114.90 - 115.10	
208	44001.86	208.00	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.63	0.774		
24	0.66	0.777		
59	0.61	0.781		
115	0.55	0.747		
208	0.55	0.806		

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.78 L/min	Dilution Gas	0.30 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	9.5 V	Deflect	14.8 V
Extract 2	-195.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-95 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	200 V		

QP Parameters

Mass Gain	124	Axis Gain	0.9992	QP Bias	-3.0 V
Mass Offset	126	Axis Offset	0.11		

Hardware Settings

Torch

Torch H	0.1 mm	Torch V	-0.3 mm

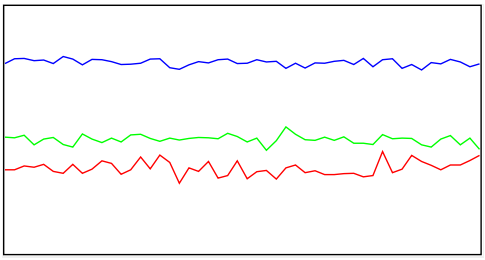
EM

Discriminator	2.9 mV	Analog HV	2191 V	Pulse HV	881 V

[He]

Tune Check Report

Sensitivity



Sampling Period [sec]	0.306
Integration Time [sec]	0.1

Mass	Range	Count	Resp [cps/(ug/L)]	Resp (Required) [cps/(ug/L)]	Resp (Flag)
9	500	172	1720.50		
24	2000	922	9219.79		
59	20000	15466	154660.46		

Mass	Resp Ratio	Resp Ratio (Required)	Resp Ratio (Flag)
9		-	
24		-	
59		-	

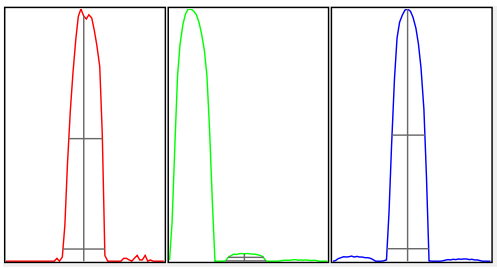
Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	8.173	5.000	Fail
24	3.848	5.000	
59	1.703	5.000	

Mass	Background	Background (Required)	Background (Flag)
9	0.300		
24	0.600		
59	0.000		

Oxide/Doubly Charged Ratio

Oxide	156 / 140 1.284 %
Doubly Charged	70 / 140 0.785 %

Resolution/Axis



Integration Time [sec]	0.1
Acquisition Time [sec]	22.24
Y Axis	Linear

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	171.02	9.00	8.90 - 9.10	
24	919.33	23.95	23.90 - 24.10	
59	15900.71	58.95	58.90 - 59.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.63	0.785		
24	0.66	0.757		

Tune Check Report

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
59	0.61	0.781		

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.78 L/min	Dilution Gas	0.30 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	8.5 V	Deflect	0.2 V
Extract 2	-190.0 V	Cell Entrance	-40 V	Plate Bias	-80 V
Omega Bias	-90 V	Cell Exit	-65 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	4.0 mL/min	OctP Bias	-22.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	124	Axis Gain	0.9992	QP Bias	-18.0 V
Mass Offset	126	Axis Offset	0.11		

Hardware Settings

Torch

Torch H	0.1 mm	Torch V	-0.3 mm		

EM

Discriminator	2.9 mV	Analog HV	2191 V	Pulse HV	881 V

Prep Batch Report

Batch ID:	213120	**Init Sample Weight / Volume:**	10
Prep Code:	3010A	**Final Sample Volume:**	10
Start Date:	06 Jun 2024 12:30 PM	**Original Factor:**	1
End Date:	06 Jun 2024 04:30 PM	**Prep Unit Factor:**	1
Technician:	My Le	**Prep Unit:**	mL

Sample ID	Fraction	Matrix	pH	Initial Weight / Volume	Final Volume	Prep Factor	Spike Factor	Comments
HS24051535-03	F	Groundwater	<2	10	10	1	1	DOD
HS24052045-03	B	Groundwater	<2	10	10	1	1	
HS24052045-03MS	A		<2	10	10	1	1	
HS24052045-03MSD	A		<2	10	10	1	1	
HS24052045-03PDS	A		<2	10	10	1	1	
HS24052045-03SD	A		<2	10	10	1	1	
LCS-213120	A			10	10	1	1	
MBLK-213120	A			10	10	1	1	

Prep Batch Report

Batch ID:	213120	**Init Sample Weight / Volume:**	10
Prep Code:	3010A	**Final Sample Volume:**	10
Start Date:	06 Jun 2024 12:30 PM	**Original Factor:**	1
End Date:	06 Jun 2024 04:30 PM	**Prep Unit Factor:**	1
Technician:	My Le	**Prep Unit:**	mL

Stage	Description	Value
3010A	Hot Block ID	HB5
3010A	Thermometer ID	W21973
3010A	Thermometer Location	E5
3010A	Dig. Cup ID	3111202421
3010A	FilterMate ID	NA
3010A	LCS/MS Spike ID	3111202408
3010A	LCS/MS Volume, mL	0.05
3010A	HNO3 ID	3111-202514
3010A	HCl ID	3111-202416
3010A	Method for HS-MET002 SOP (3010A)	Method SW3010A
3010A	Dig. Start Temp (U)	95
3010A	Dig. Start Temp (C)	95
3010A	Dig. End Temp (U)	95
3010A	Dig. End Temp (C)	95
3010A	pH Paper:	3111201820
MET	Pipette #3	ICP#10(0.05ML)
MET	Pipette #1	MP#11(10ML)/ICP#13 (1ML)

HS24051535 Wetchem 9056_anions_W

ALS WO# HS24051535

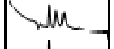
Sequence: 052424
Last Update Operator: ALSHS.NoUser

CD	Name	Comment	Type	Position	Dilution	Level	Instrument Method
	STD1		Calibratio	RC1	1.00	1	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD2		Calibratio	RC3	1.00	2	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD3		Calibratio	RC4	1.00	3	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD4		Calibratio	RC5	1.00	4	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD5		Calibratio	RC6	1.00	5	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD6		Calibratio	RC7	1.00	6	Anions Program ISO37mM 150mm short 0.4 Constant current
	ICV		Unknown	RC8	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	ICB		Unknown	B8	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV1		Unknown	R3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknown	R8	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	MBLK	9056-W-SH	Unknown	R5	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	LCS		Unknown	R2	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24051535-01		Unknown	RE3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24051535-01DF10		Unknown	RE4	10.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24051535-01MSDF10		Unknown	RE5	10.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24051535-01MSDDF		Unknown	RE6	10.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24051535-02DF2		Unknown	RE7	2.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24051535-02DF50		Unknown	RE8	50.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV		Unknown	R1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknown	R4	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24051535-03		Unknown	GA1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24051535-03DF20		Unknown	GA2	20.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24051535-04DF2		Unknown	GA3	2.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24051535-04DF50		Unknown	GA4	50.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24051535-05		Unknown	GA5	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24051535-05DF20		Unknown	GA6	20.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24051535-06		Unknown	GA7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24051535-06DF20		Unknown	GA8	20.00		Anions Program ISO37mM 150mm short 0.4 Constant current

Sequence: 052424
Last Update Operator: ALSHS.NoUser

CD	Name	Comment	Type	Position	Dilution	Level	Instrument Method
	CCV1		Unknown	R3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknown	R7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV		Unknown	R1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknown	R6	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV1		Unknown	R3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknown	R7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current

Sequence: 052424
Last Update Operator: ALSHS.NoUser

Processing Method	CD	Name	me	Status	Inject Time
Anions Processing Method ISO		STD1	5.0	Finished	5/24/2024 3:05:55 PM -0
Anions Processing Method ISO		STD2	5.0	Finished	5/24/2024 3:11:46 PM -0
Anions Processing Method ISO		STD3	5.0	Finished	5/24/2024 3:17:37 PM -0
Anions Processing Method ISO		STD4	5.0	Finished	5/24/2024 3:23:27 PM -0
Anions Processing Method ISO		STD5	5.0	Finished	5/24/2024 3:29:18 PM -0
Anions Processing Method ISO		STD6	5.0	Finished	5/24/2024 3:35:09 PM -0
Anions Processing Method ISO		ICV	5.0	Finished	5/24/2024 3:41:00 PM -0
Anions Processing Method ISO		ICB	5.0	Finished	5/24/2024 3:58:32 PM -0
Anions Processing Method ISO		CCV1	5.0	Finished	5/24/2024 8:27:01 PM -0
Anions Processing Method ISO		CCB	5.0	Finished	5/24/2024 8:44:33 PM -0
Anions Processing Method ISO		MBLK	5.0	Finished	5/24/2024 9:13:46 PM -0
Anions Processing Method ISO		LCS	5.0	Finished	5/24/2024 9:19:36 PM -0
Anions Processing Method ISO		HS24051535-01	5.0	Finished	5/24/2024 9:25:27 PM -0
Anions Processing Method ISO		HS24051535-01DF10	5.0	Finished	5/24/2024 9:31:17 PM -0
Anions Processing Method ISO		HS24051535-01MSDF10	5.0	Finished	5/24/2024 9:37:08 PM -0
Anions Processing Method ISO		HS24051535-01MSDDF	5.0	Finished	5/24/2024 9:42:58 PM -0
Anions Processing Method ISO		HS24051535-02DF2	5.0	Finished	5/24/2024 9:48:49 PM -0
Anions Processing Method ISO		HS24051535-02DF50	5.0	Finished	5/24/2024 9:54:39 PM -0
Anions Processing Method ISO		CCV	5.0	Finished	5/24/2024 10:06:20 PM -
Anions Processing Method ISO		CCB	5.0	Finished	5/24/2024 10:12:11 PM -
Anions Processing Method ISO		HS24051535-03	5.0	Finished	5/24/2024 10:24:03 PM -
Anions Processing Method ISO		HS24051535-03DF20	5.0	Finished	5/24/2024 10:29:53 PM -
Anions Processing Method ISO		HS24051535-04DF2	5.0	Finished	5/24/2024 10:35:44 PM -
Anions Processing Method ISO		HS24051535-04DF50	5.0	Finished	5/24/2024 10:41:34 PM -
Anions Processing Method ISO		HS24051535-05	5.0	Finished	5/24/2024 10:47:24 PM -
Anions Processing Method ISO		HS24051535-05DF20	5.0	Finished	5/24/2024 10:53:15 PM -
Anions Processing Method ISO		HS24051535-06	5.0	Finished	5/24/2024 10:59:05 PM -
Anions Processing Method ISO		HS24051535-06DF20	5.0	Finished	5/24/2024 11:04:56 PM -

Sequence: 052424
Last Update Operator: ALSHS.NoUser

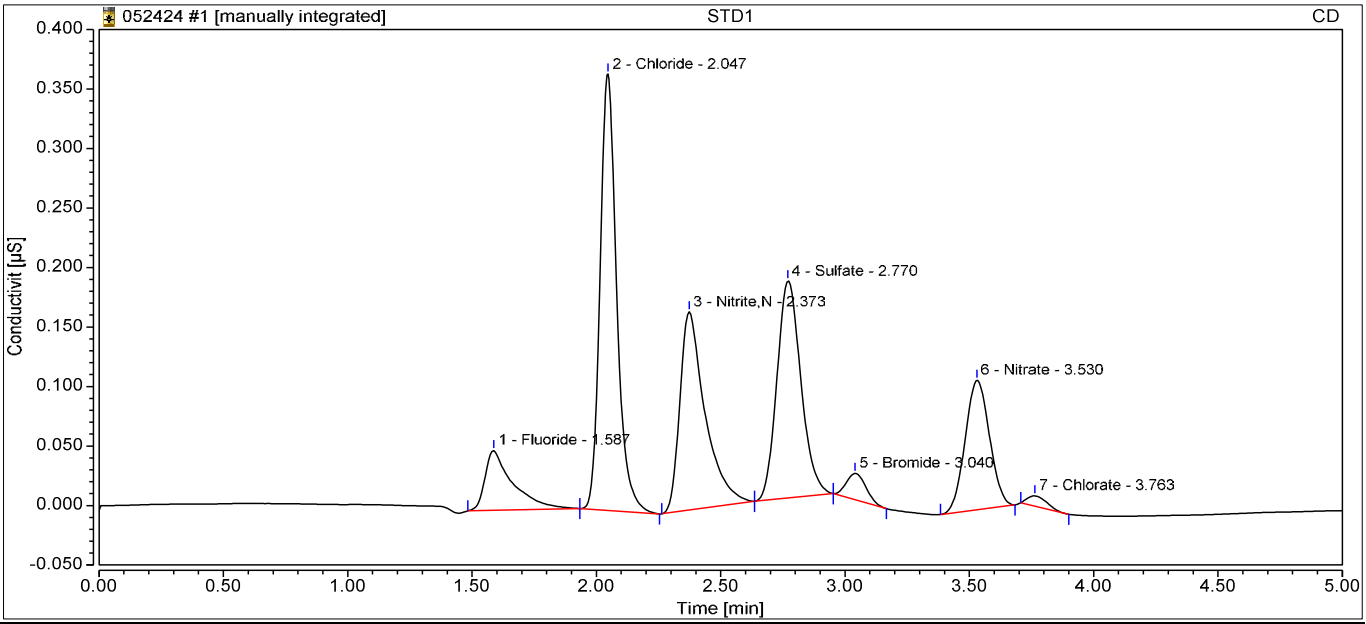
Processing Method	CD	Name	me	Status	Inject Time
Anions Processing Method ISO		CCV1	5.0	Finished	5/24/2024 11:28:28 PM -
Anions Processing Method ISO		CCB	5.0	Finished	5/24/2024 11:34:19 PM -
Anions Processing Method ISO		CCV	5.0	Finished	5/25/2024 12:50:13 AM -
Anions Processing Method ISO		CCB	5.0	Finished	5/25/2024 1:01:53 AM -0
Anions Processing Method ISO		CCV1	5.0	Finished	5/25/2024 2:06:05 AM -0
Anions Processing Method ISO		CCB	5.0	Finished	5/25/2024 2:17:46 AM -0

Peak No.	Peak Name	Cal.Type	Eval.Type	Number of Points	Rel.Std.Dev. %	Coeff.of Determination	C0 (Offset)	C1 (Slope)	C2 (Curve)
1	***Fluoride***	***Quad, WithOffset, 1/A***	***Area***	***6***	***47.8211***	***0.99525***	***-0.0209***	***0.1871***	***0.0010***
2	Chloride	Lin, WithOffset, 1/A	Area	6	14.1093	0.99928	-0.0600	0.1553	0.0000
3	Nitrite,N	Quad, WithOffset, 1/A	Area	6	12.6612	0.99942	-0.0184	0.3400	-0.0034
4	Sulfate	Quad, WithOffset, 1/A	Area	6	13.5125	0.99951	-0.0367	0.1006	0.0000
5	Bromide	Quad, WithOffset, 1/A	Area	6	11.1870	0.99969	-0.0027	0.0421	0.0005
6	Nitrate	Lin, WithOffset, 1/A	Area	6	20.7181	0.99856	-0.0313	0.3430	0.0000
7	Chlorate	Quad, WithOffset, 1/A	Area	6	24.4785	0.99856	-0.0031	0.0317	0.0000
8	Phosphate	Lin, WithOffset, 1/A	Area	1	n.a.	n.a.	n.a.	n.a.	n.a.
Maximum					**47.8211**	0.99969			
Minimum					11.1870	**0.99525**			

1 STD1

Sample Name:	**STD1**	*Injection Volume:*	**5.00**
Vial Number:	**RC1**	*Channel:*	**CD**
Sample Type:	**Calibration Standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/24/2024 15:05**	*Sample Weight:*	**1.0000**

Run Time:



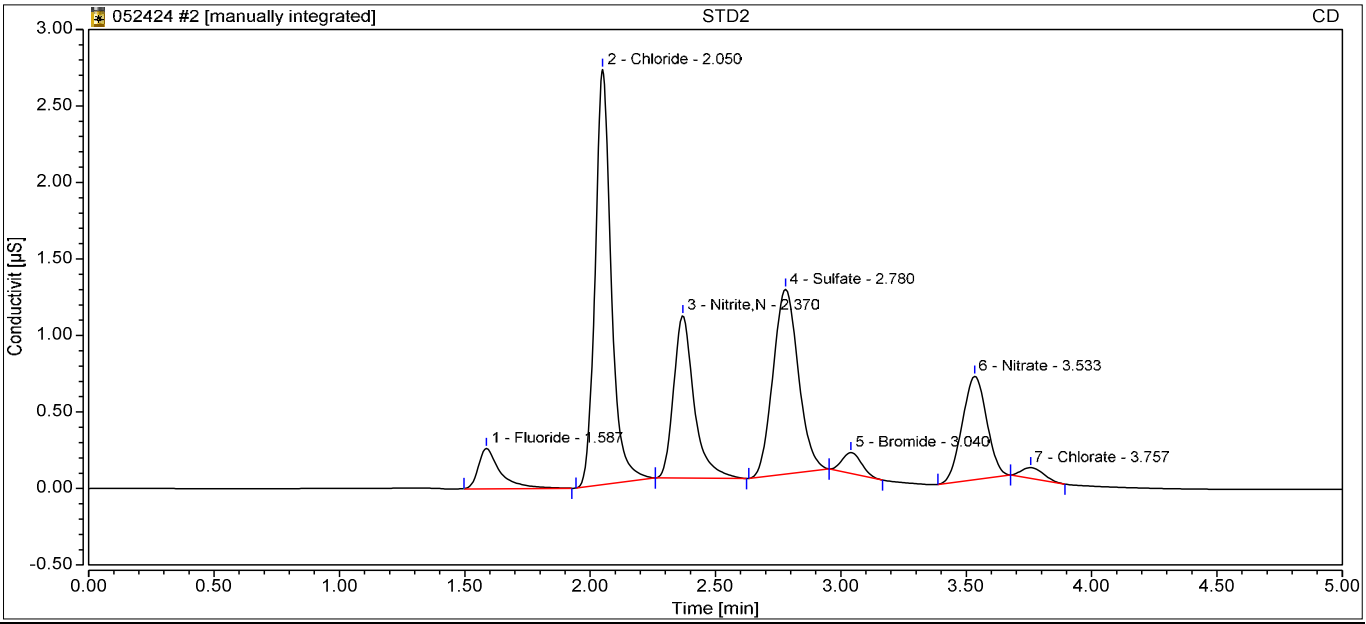
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.59	Fluoride	BMB*	0.006	0.1461	0.1461	1.0000
2	2.05	Chloride	BMB	0.028	0.5685	0.5685	1.0000
3	2.37	Nitrite,N	BMB	0.020	0.1119	0.1119	1.0000
4	2.77	Sulfate	BMB	0.020	0.5675	0.5675	1.0000
5	3.04	Bromide	BMB	0.002	0.1128	0.1128	1.0000
6	3.53	Nitrate	BMB	0.012	0.1274	0.1274	1.0000
7	3.76	Chlorate	BMB*	0.001	0.1238	0.1238	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.090**		**1.76**	

2 STD2

Sample Name:	**STD2**	*Injection Volume:*	**5.00**
Vial Number:	**RC3**	*Channel:*	**CD**
Sample Type:	**Calibration Standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/24/2024 15:11**	*Sample Weight:*	**1.0000**

Run Time:



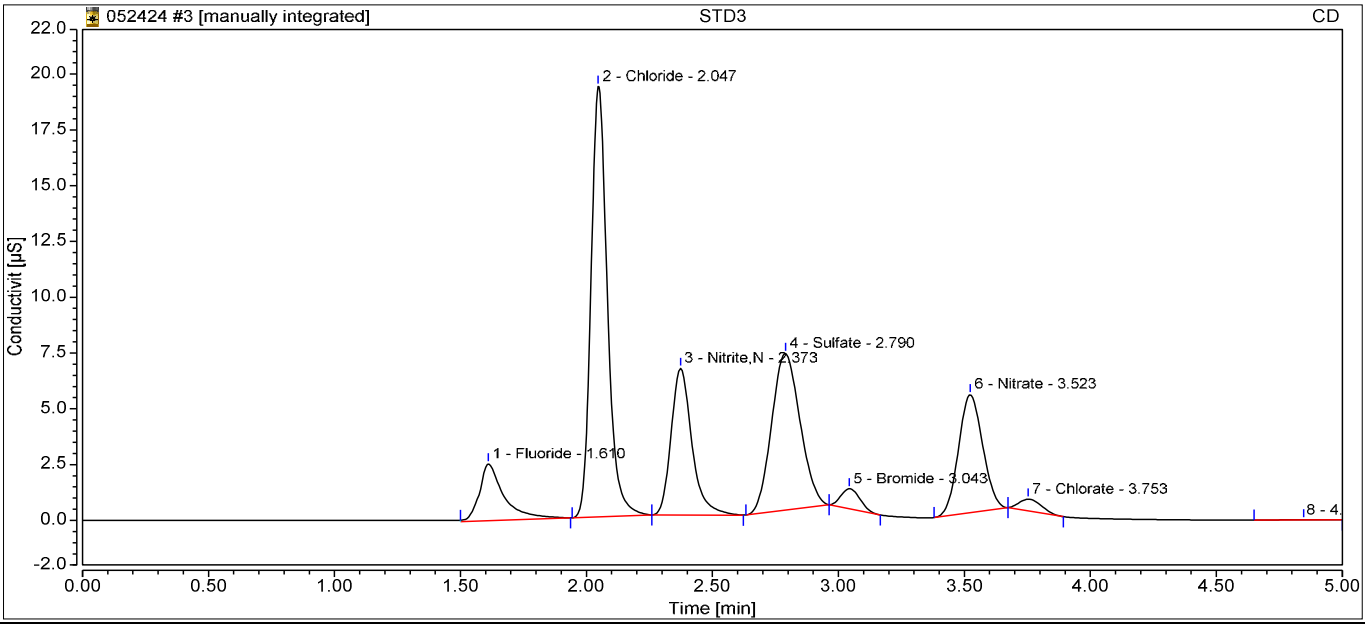
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.59	Fluoride	MB*	0.027	0.2547	0.2547	1.0000
2	2.05	Chloride	BMB	0.201	1.6835	1.6835	1.0000
3	2.37	Nitrite,N	BMB	0.101	0.3514	0.3514	1.0000
4	2.78	Sulfate	BMB	0.141	1.7687	1.7687	1.0000
5	3.04	Bromide	BMB	0.012	0.3564	0.3564	1.0000
6	3.53	Nitrate	BMB	0.076	0.3143	0.3143	1.0000
7	3.76	Chlorate	BMB	0.007	0.3242	0.3242	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.566**		**5.05**	

3 STD3

Sample Name:	**STD3**	*Injection Volume:*	**5.00**
Vial Number:	**RC4**	*Channel:*	**CD**
Sample Type:	**Calibration Standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/24/2024 15:17**	*Sample Weight:*	**1.0000**

Run Time:



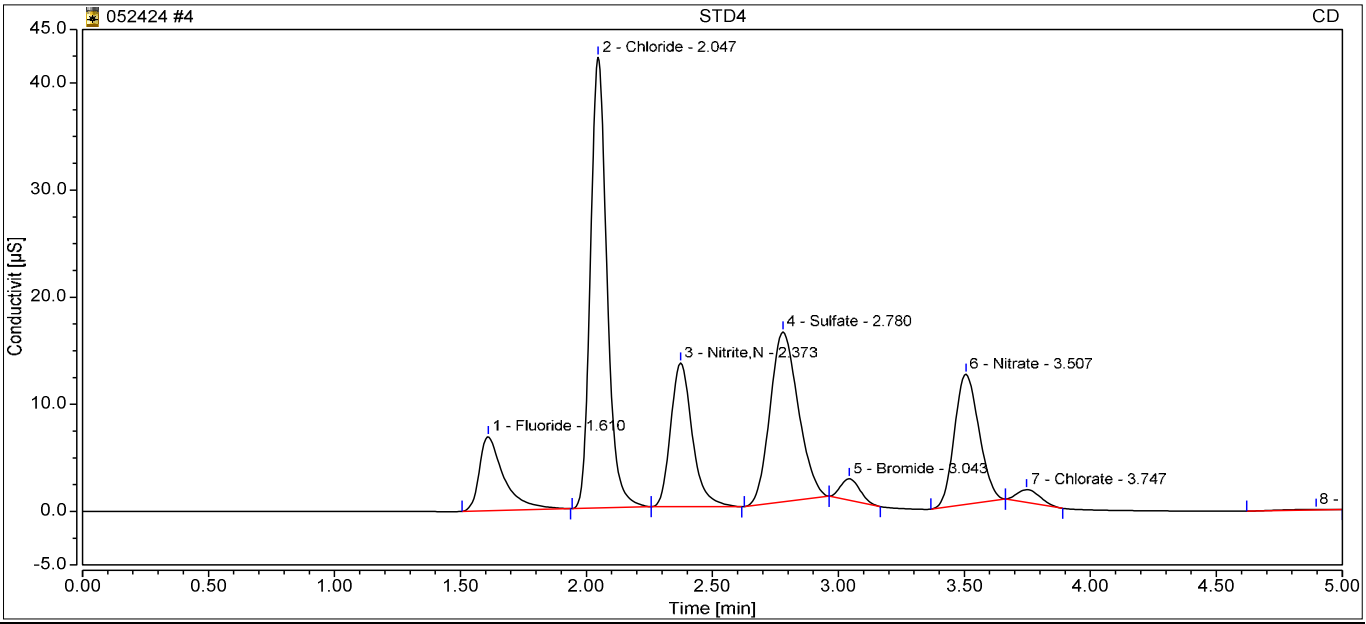
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.61	Fluoride	MB*	0.288	1.6344	1.6344	1.0000
2	2.05	Chloride	BMB	1.452	9.7390	9.7390	1.0000
3	2.37	Nitrite,N	BMB	0.628	1.9402	1.9402	1.0000
4	2.79	Sulfate	BMB	0.919	9.4564	9.4564	1.0000
5	3.04	Bromide	BMB	0.079	1.9074	1.9074	1.0000
6	3.52	Nitrate	BMB	0.588	1.8050	1.8050	1.0000
7	3.75	Chlorate	BMB	0.054	1.8157	1.8157	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**4.008**		**28.30**	

4 STD4

Sample Name:	**STD4**	*Injection Volume:*	**5.00**
Vial Number:	**RC5**	*Channel:*	**CD**
Sample Type:	**Calibration Standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/24/2024 15:23**	*Sample Weight:*	**1.0000**

Run Time:



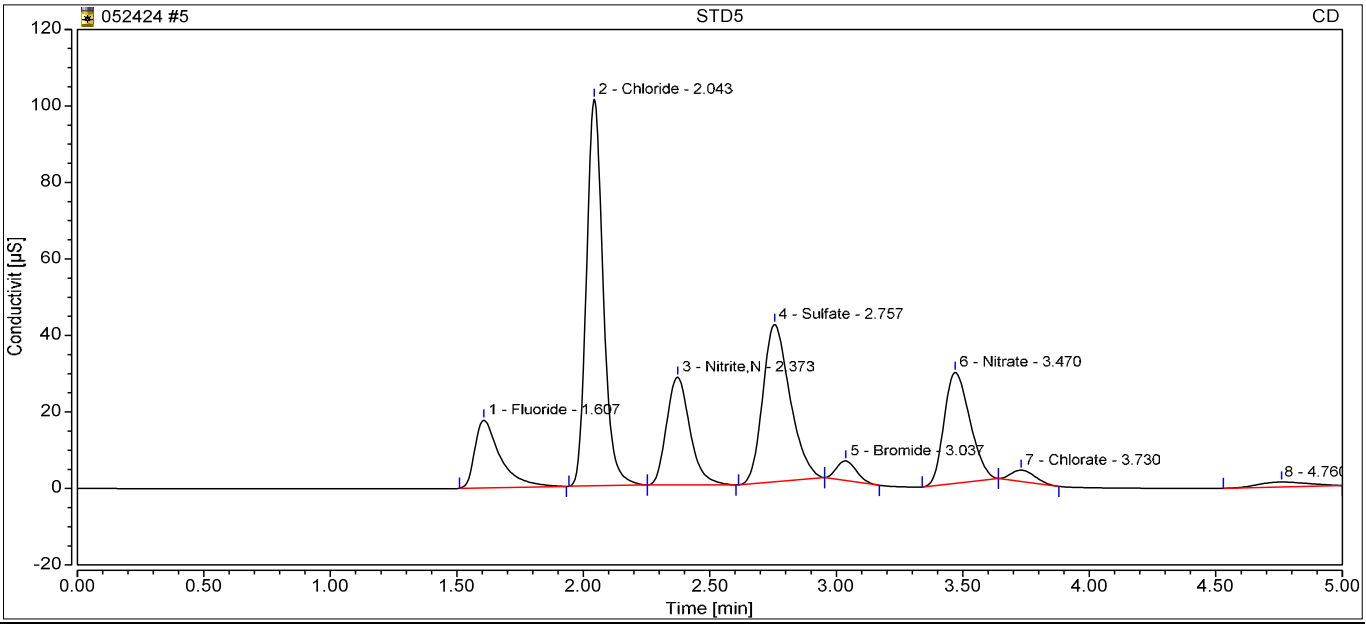
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.61	Fluoride	BMB	0.779	4.1786	4.1786	1.0000
2	2.05	Chloride	BMB	3.198	20.9870	20.9870	1.0000
3	2.37	Nitrite,N	BMB	1.336	4.1573	4.1573	1.0000
4	2.78	Sulfate	BMB	2.058	20.6315	20.6315	1.0000
5	3.04	Bromide	BMB	0.177	4.0924	4.0924	1.0000
6	3.51	Nitrate	BMB	1.374	4.0990	4.0990	1.0000
7	3.75	Chlorate	BMB	0.127	4.0823	4.0823	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**9.050**		**62.23**	

5 STD5

Sample Name:	**STD5**	*Injection Volume:*	**5.00**
Vial Number:	**RC6**	*Channel:*	**CD**
Sample Type:	**Calibration Standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/24/2024 15:29**	*Sample Weight:*	**1.0000**

Run Time:

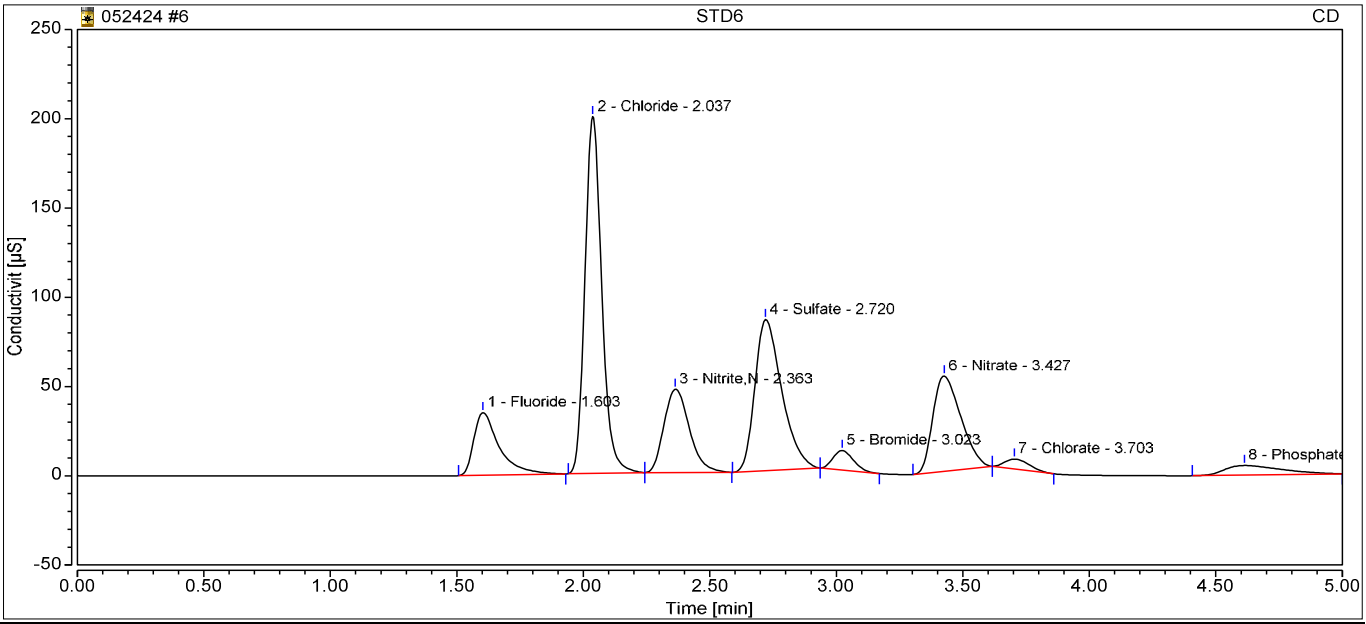


Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.61	Fluoride	BMB	2.057	10.5101	10.5101	1.0000
2	2.04	Chloride	BMB	7.745	50.2710	50.2710	1.0000
3	2.37	Nitrite,N	BMB	3.023	9.9291	9.9291	1.0000
4	2.76	Sulfate	BMB	5.132	50.2668	50.2668	1.0000
5	3.04	Bromide	BMB	0.468	10.0602	10.0602	1.0000
6	3.47	Nitrate	BMB	3.437	10.1141	10.1141	1.0000
7	3.73	Chlorate	BMB	0.324	10.2999	10.2999	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**22.186**		**151.45**	

6	*STD6*		
Sample Name:	**STD6**	*Injection Volume:*	**5.00**
Vial Number:	**RC7**	*Channel:*	**CD**
Sample Type:	**Calibration Standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/24/2024 15:35**	*Sample Weight:*	**1.0000**

Run Time:



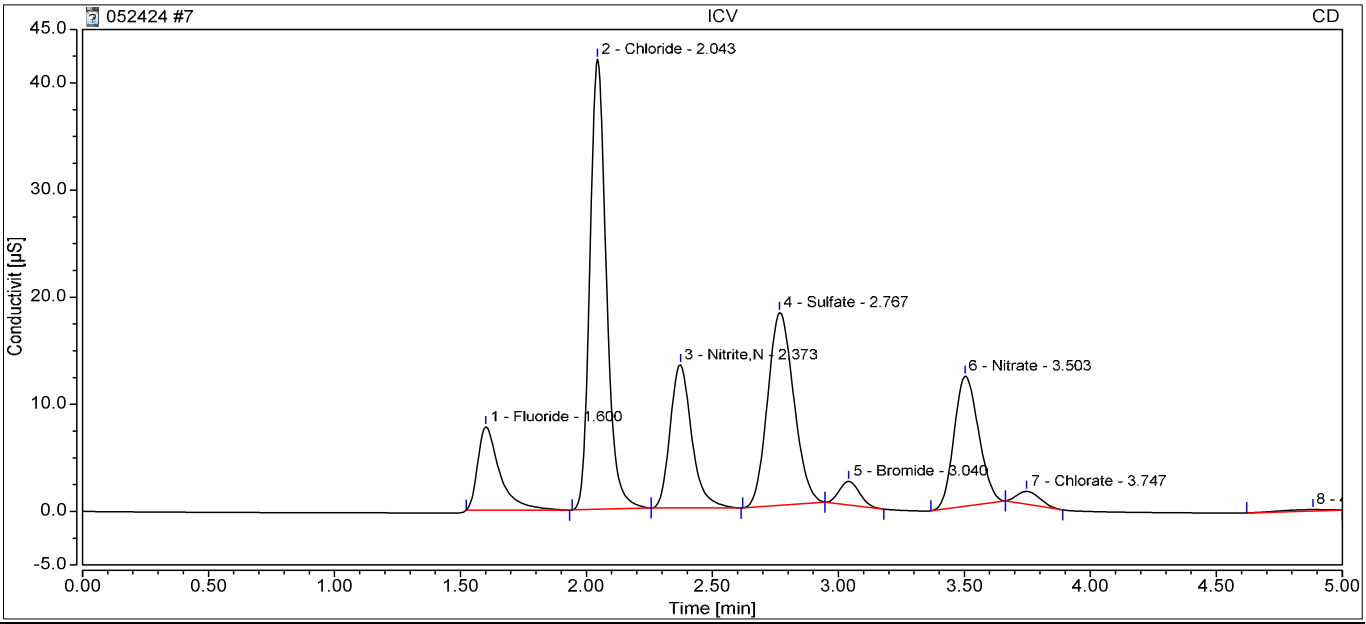
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.60	Fluoride	BMB	4.072	19.7690	19.7690	1.0000
2	2.04	Chloride	BMB	15.349	99.2510	99.2510	1.0000
3	2.36	Nitrite,N	BMB	5.427	20.0103	20.0103	1.0000
4	2.72	Sulfate	BMB	10.440	99.8080	99.8080	1.0000
5	3.02	Bromide	BMB	1.024	19.9678	19.9678	1.0000
6	3.43	Nitrate	BMB	6.842	20.0403	20.0403	1.0000
7	3.70	Chlorate	BMB	0.629	19.8540	19.8540	1.0000
8	4.61	Phosphate	BMB	1.398	n.a.	n.a.	1.0000
Total:			**0.000**	**45.182**		**298.70**	

7 *ICV*

Sample Name:	**ICV**	*Injection Volume:*	**5.00**
Vial Number:	**RC8**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/24/2024 15:41**	*Sample Weight:*	**1.0000**

Run Time:



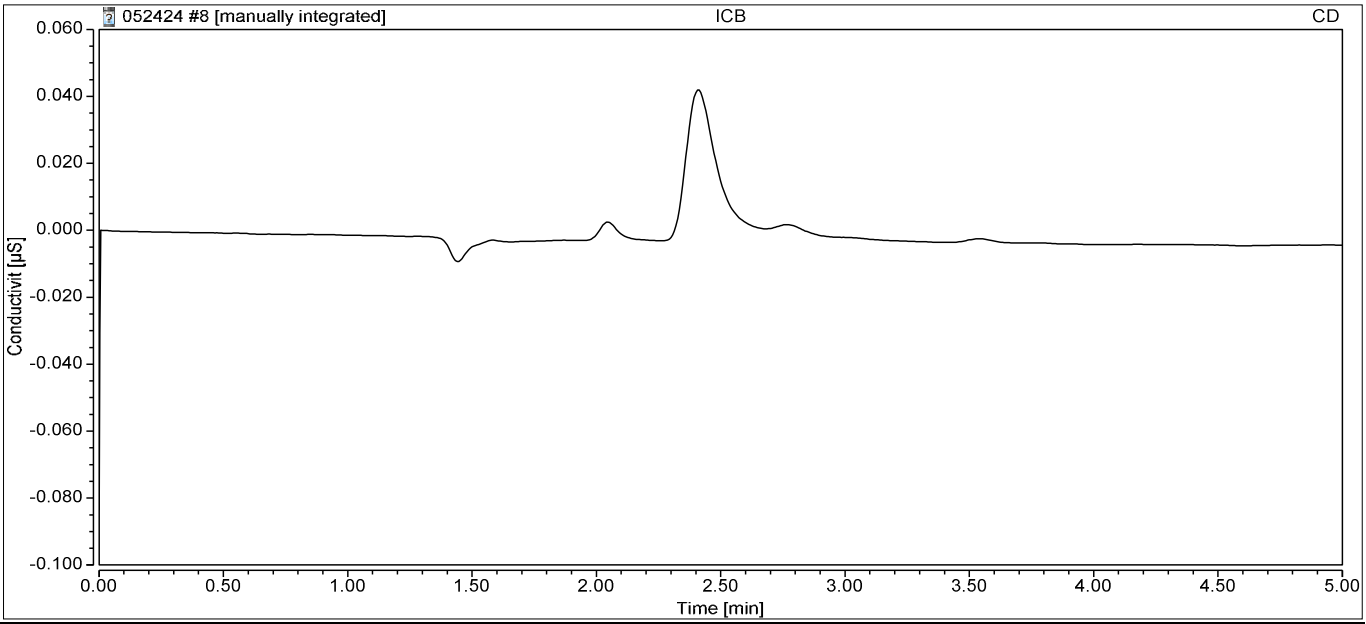
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.60	Fluoride	BMB	0.787	4.2226	4.2226	1.0000
2	2.04	Chloride	BMB	3.184	20.8964	20.8964	1.0000
3	2.37	Nitrite,N	BMB	1.328	4.1320	4.1320	1.0000
4	2.77	Sulfate	BMB	2.165	21.6763	21.6763	1.0000
5	3.04	Bromide	BMB	0.204	4.6731	4.6731	1.0000
6	3.50	Nitrate	BMB	1.373	4.0937	4.0937	1.0000
7	3.75	Chlorate	BMB	0.126	4.0795	4.0795	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**9.168**		**63.77**	

8 ICB

Sample Name:	**ICB**	*Injection Volume:*	**5.00**
Vial Number:	**B8**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/24/2024 15:58**	*Sample Weight:*	**1.0000**

Run Time:



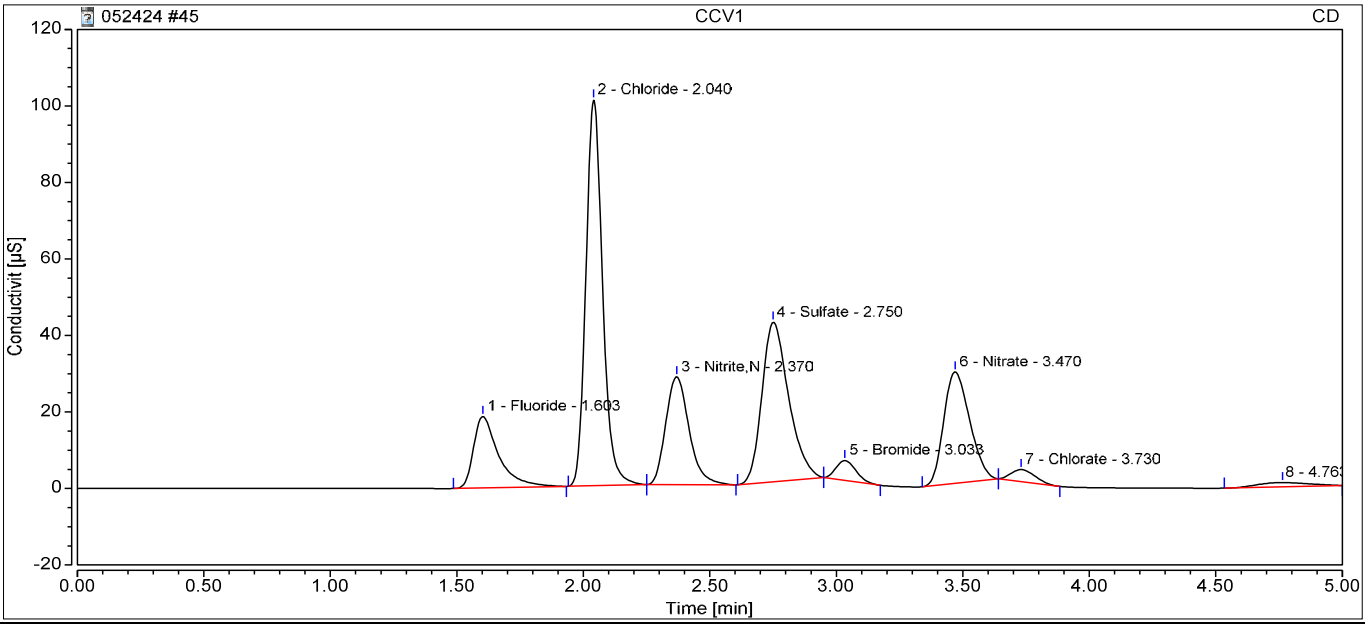
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.000**		**0.00**	

45 CCV1

Sample Name:	**CCV1**	*Injection Volume:*	**5.00**
Vial Number:	**R3**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/24/2024 20:27**	*Sample Weight:*	**1.0000**

Run Time:



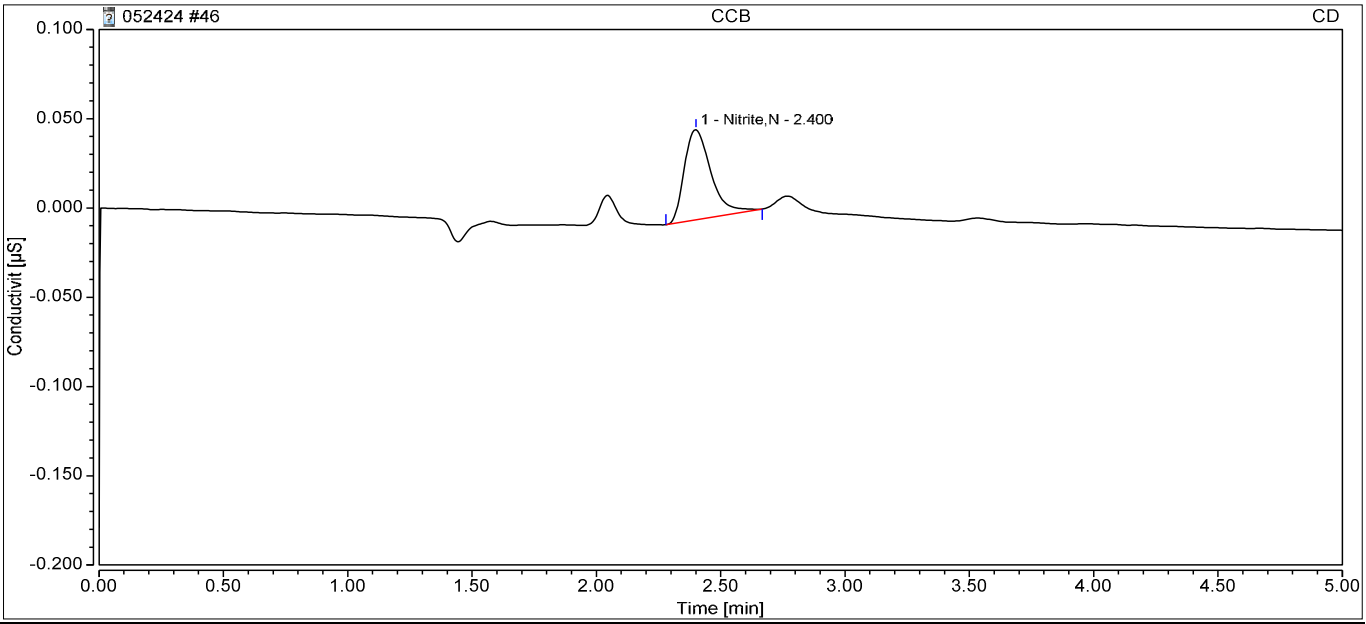
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.60	Fluoride	BMB	2.156	10.9829	10.9829	1.0000
2	2.04	Chloride	BMB	7.712	50.0635	50.0635	1.0000
3	2.37	Nitrite,N	BMB	3.026	9.9400	9.9400	1.0000
4	2.75	Sulfate	BMB	5.097	49.9382	49.9382	1.0000
5	3.03	Bromide	BMB	0.473	10.1556	10.1556	1.0000
6	3.47	Nitrate	BMB	3.465	10.1935	10.1935	1.0000
7	3.73	Chlorate	BMB	0.347	10.9979	10.9979	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**22.276**		**152.27**	

46 CCB

Sample Name:	**CCB**	*Injection Volume:*	**5.00**
Vial Number:	**R8**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/24/2024 20:44**	*Sample Weight:*	**1.0000**

Run Time:



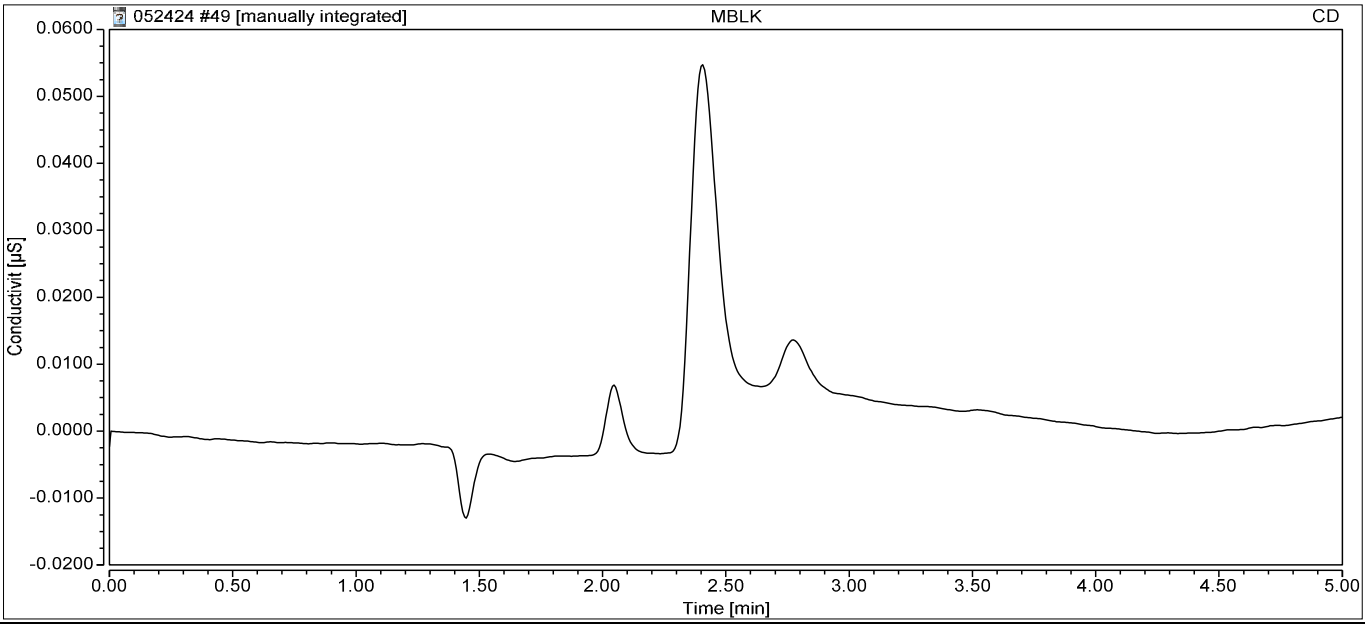
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	1.0000
1	2.40	Nitrite,N	BMB	0.006	0.0727	0.0727	1.0000
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.006**		**0.07**	

49 MBLK

Sample Name:	**MBLK**	*Injection Volume:*	**5.00**
Vial Number:	**R5**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/24/2024 21:13**	*Sample Weight:*	**1.0000**

Run Time:



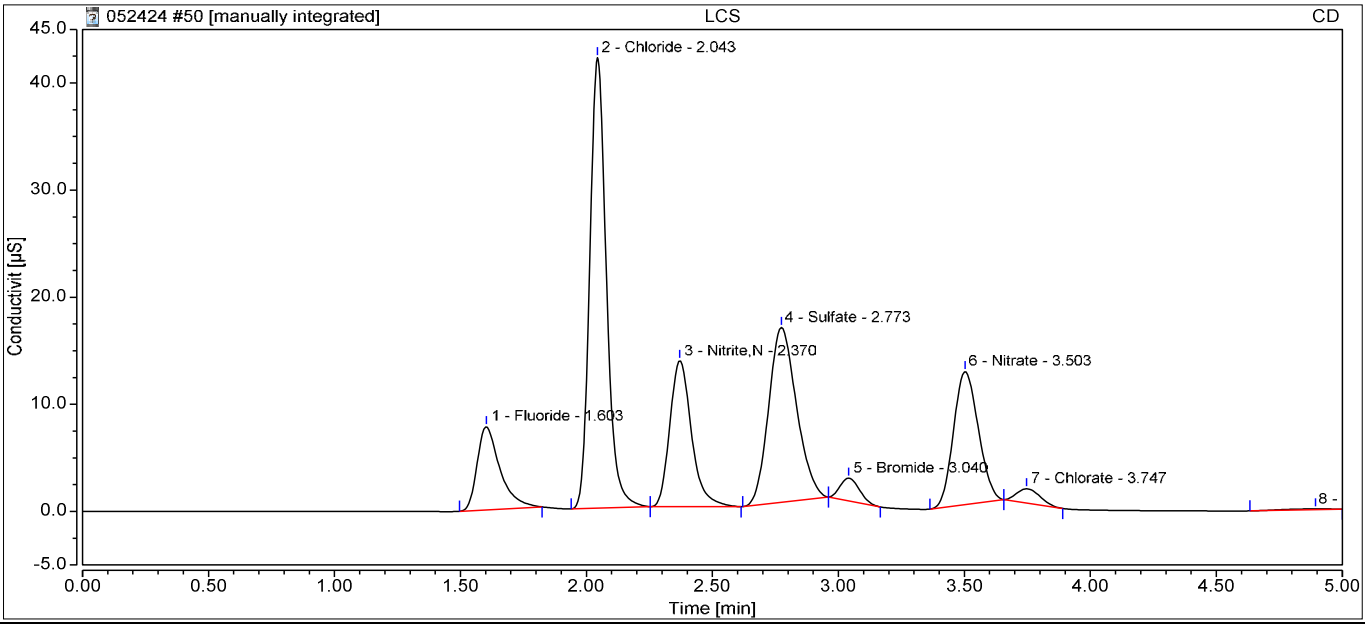
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.000**		**0.00**	

50 LCS

Sample Name:	**LCS**	*Injection Volume:*	**5.00**
Vial Number:	**R2**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/24/2024 21:19**	*Sample Weight:*	**1.0000**

Run Time:



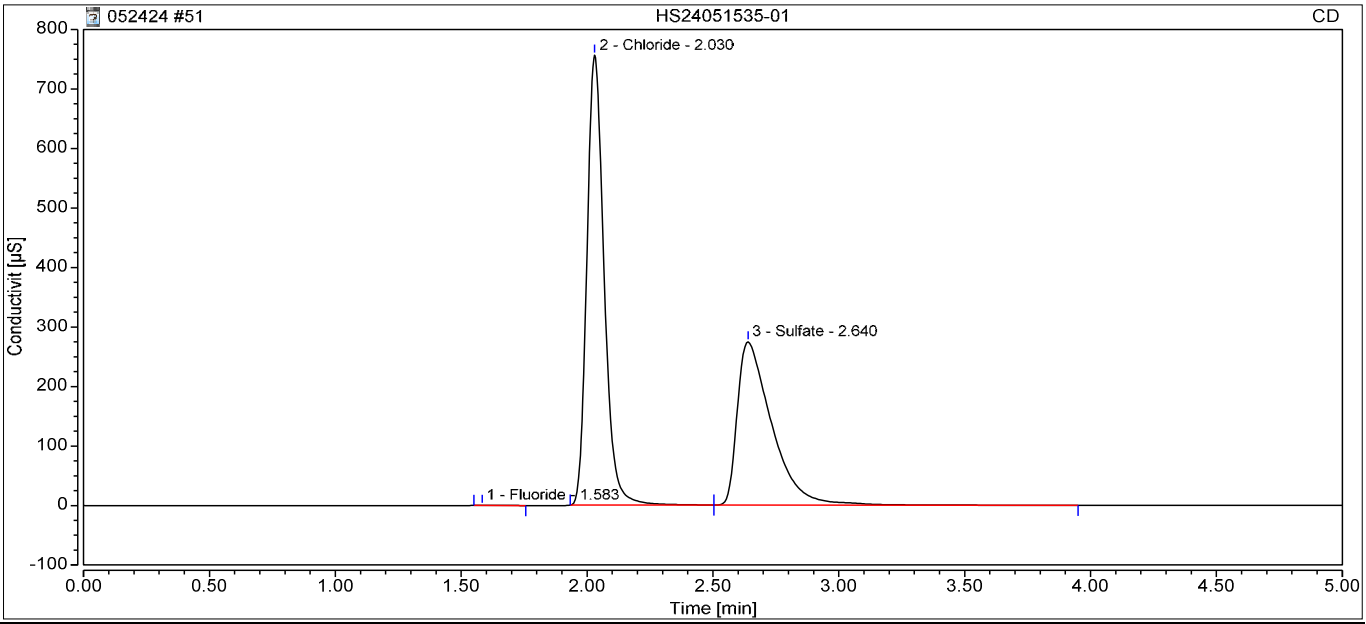
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.60	Fluoride	BMB*	0.815	4.3642	4.3642	1.0000
2	2.04	Chloride	BMB	3.209	21.0568	21.0568	1.0000
3	2.37	Nitrite,N	BMB	1.362	4.2397	4.2397	1.0000
4	2.77	Sulfate	BMB	2.090	20.9447	20.9447	1.0000
5	3.04	Bromide	BMB	0.190	4.3555	4.3555	1.0000
6	3.50	Nitrate	BMB	1.418	4.2252	4.2252	1.0000
7	3.75	Chlorate	BMB	0.143	4.6011	4.6011	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**9.226**		**63.79**	

51 HS24051535-01

Sample Name:	**HS24051535-01**	*Injection Volume:*	**5.00**
Vial Number:	**RE3**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/24/2024 21:25**	*Sample Weight:*	**1.0000**

Run Time:



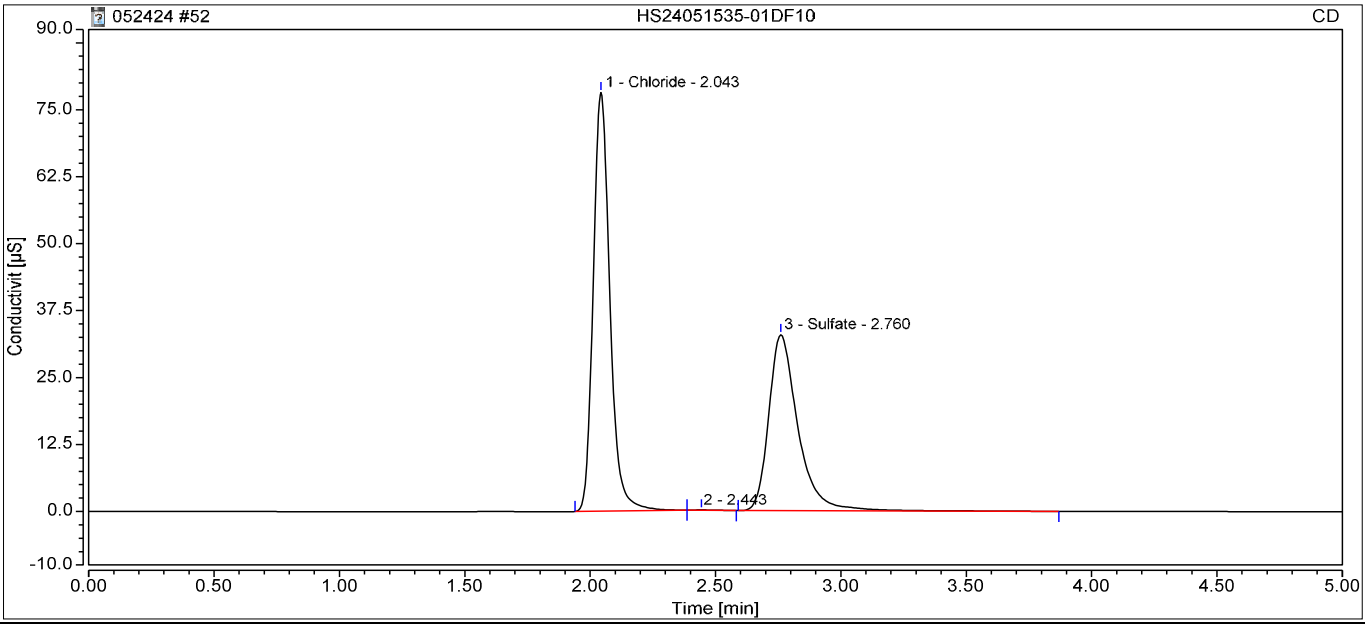
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.58	Fluoride	BMB	0.009	0.1578	0.1578	1.0000
2	2.03	Chloride	BMB	59.843	385.8456	385.8456	1.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	1.0000
3	2.64	Sulfate	BMB	43.390	371.7828	371.7828	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**103.241**		**757.79**	

52 HS24051535-01DF10

Sample Name:	**HS24051535-01DF10**	*Injection Volume:*	**5.00**
Vial Number:	**RE4**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**10.0000**
Recording Time:	**05/24/2024 21:31**	*Sample Weight:*	**1.0000**

Run Time:



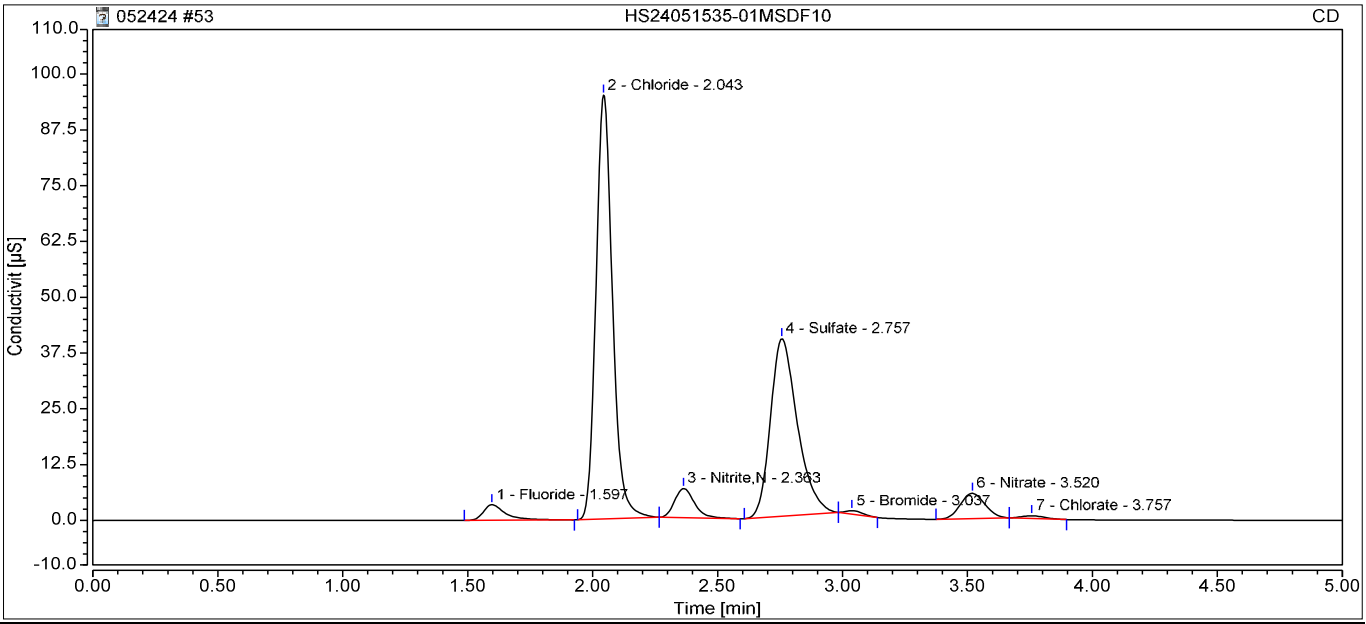
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	10.0000
1	2.04	Chloride	BMB	6.009	39.0893	390.8935	10.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	10.0000
3	2.76	Sulfate	BMB	4.430	43.5662	435.6619	10.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	10.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	10.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	10.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	10.0000
Total:			**0.000**	**10.439**		**826.56**	

53 HS24051535-01MSDF10

Sample Name:	**HS24051535-01MSDF10**	*Injection Volume:*	**5.00**
Vial Number:	**RE5**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**10.0000**
Recording Time:	**05/24/2024 21:37**	*Sample Weight:*	**1.0000**

Run Time:



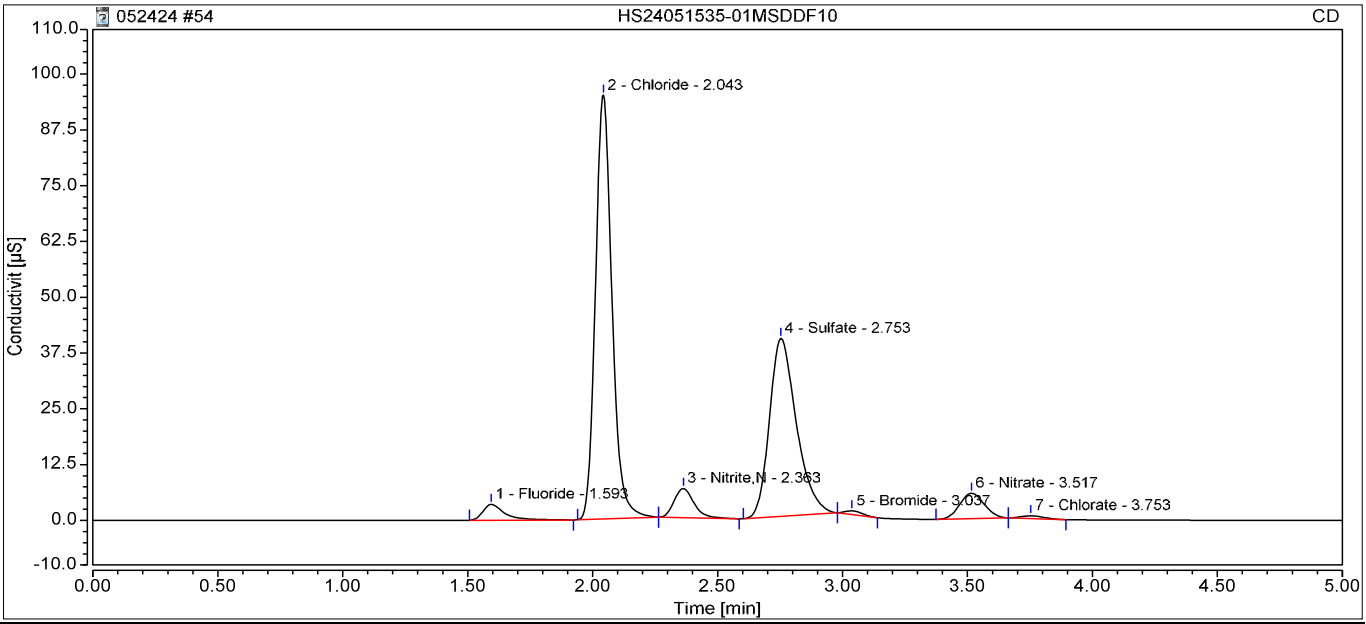
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.60	Fluoride	BMB	0.365	2.0374	20.3742	10.0000
2	2.04	Chloride	BMB	7.276	47.2549	472.5492	10.0000
3	2.36	Nitrite,N	BMB	0.606	1.8704	18.7044	10.0000
4	2.76	Sulfate	BMB	4.971	48.7399	487.3993	10.0000
5	3.04	Bromide	BMB	0.060	1.4734	14.7344	10.0000
6	3.52	Nitrate	BMB	0.643	1.9659	19.6594	10.0000
7	3.76	Chlorate	BMB	0.063	2.0744	20.7440	10.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	10.0000
Total:			**0.000**	**13.984**		**1054.16**	

54 HS24051535-01MSDDF10

Sample Name:	**HS24051535-01MSDDF10**	*Injection Volume:*	**5.00**
Vial Number:	**RE6**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**10.0000**
Recording Time:	**05/24/2024 21:42**	*Sample Weight:*	**1.0000**

Run Time:



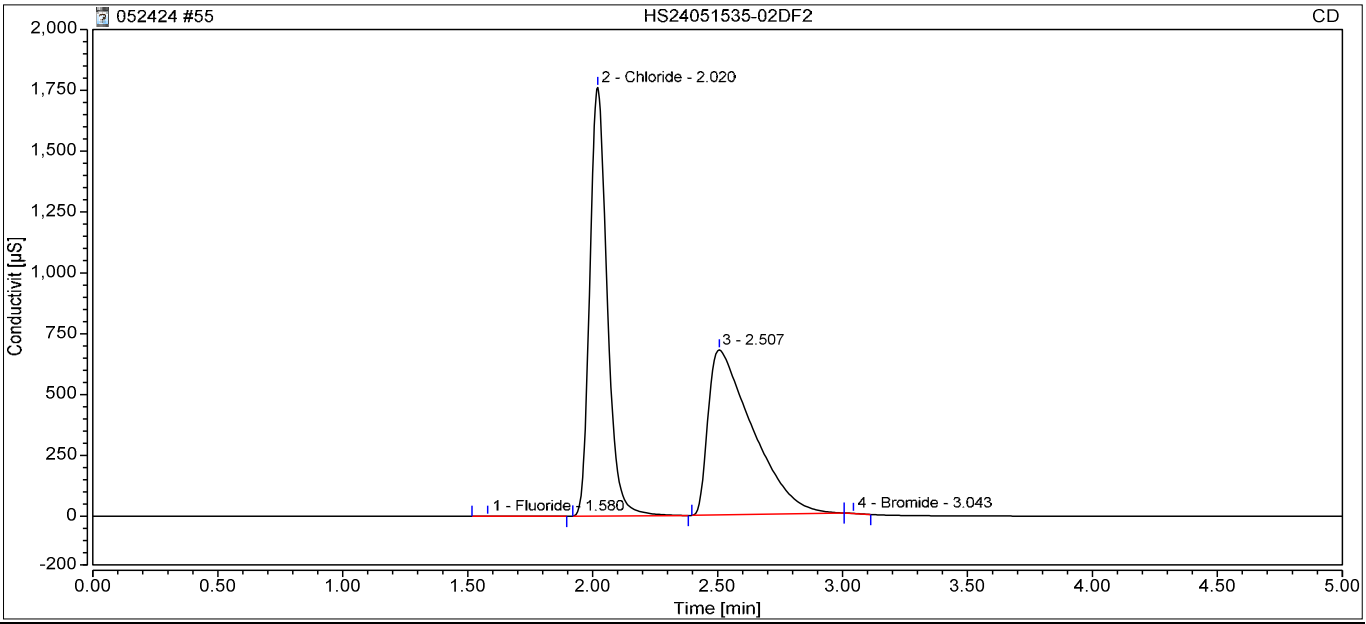
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.59	Fluoride	BMB	0.362	2.0228	20.2282	10.0000
2	2.04	Chloride	BMB	7.275	47.2469	472.4695	10.0000
3	2.36	Nitrite,N	BMB	0.608	1.8763	18.7633	10.0000
4	2.75	Sulfate	BMB	4.977	48.7954	487.9545	10.0000
5	3.04	Bromide	BMB	0.063	1.5428	15.4284	10.0000
6	3.52	Nitrate	BMB	0.645	1.9721	19.7212	10.0000
7	3.75	Chlorate	BMB	0.063	2.0962	20.9625	10.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	10.0000
Total:			**0.000**	**13.993**		**1055.53**	

55 HS24051535-02DF2

Sample Name:	**HS24051535-02DF2**	*Injection Volume:*	**5.00**
Vial Number:	**RE7**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**2.0000**
Recording Time:	**05/24/2024 21:48**	*Sample Weight:*	**1.0000**

Run Time:



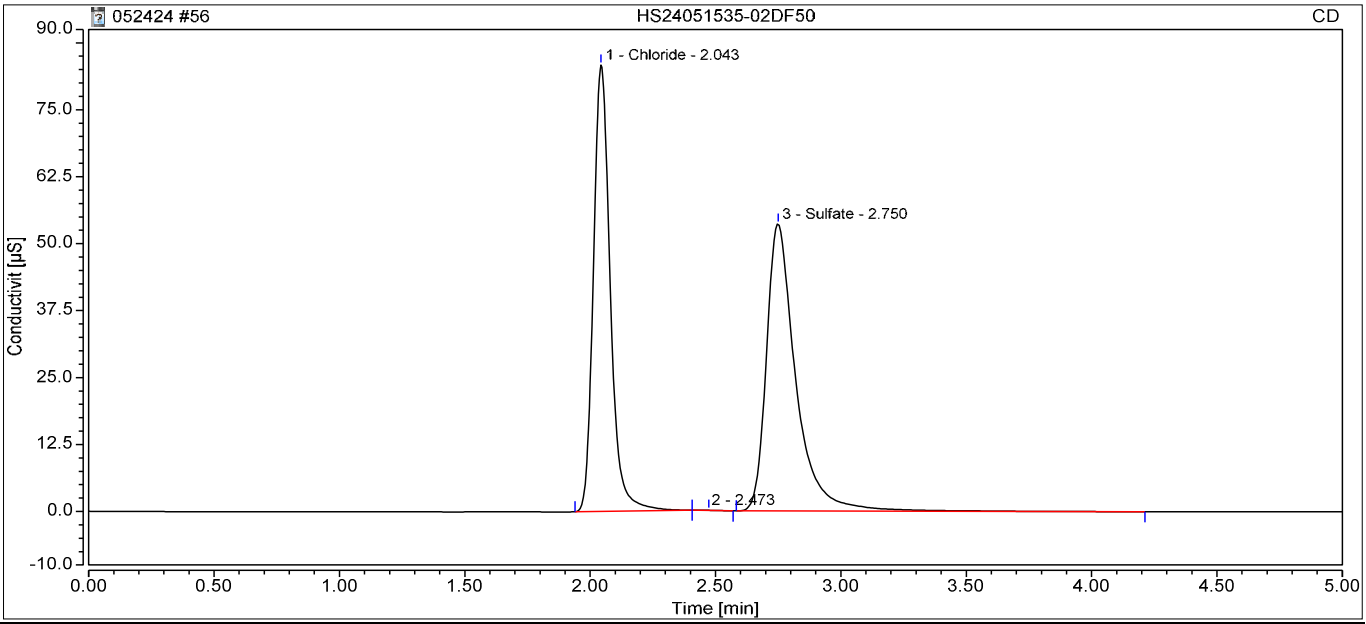
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.58	Fluoride	BMB	0.021	0.2259	0.4518	2.0000
2	2.02	Chloride	BMB	142.182	916.2082	1832.4164	2.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	2.0000
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	2.0000
4	3.04	Bromide	BMB	0.035	0.8753	1.7505	2.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	2.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	2.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	2.0000
Total:			**0.000**	**142.238**		**1834.62**	

56 HS24051535-02DF50

Sample Name:	**HS24051535-02DF50**	*Injection Volume:*	**5.00**
Vial Number:	**RE8**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**50.0000**
Recording Time:	**05/24/2024 21:54**	*Sample Weight:*	**1.0000**

Run Time:



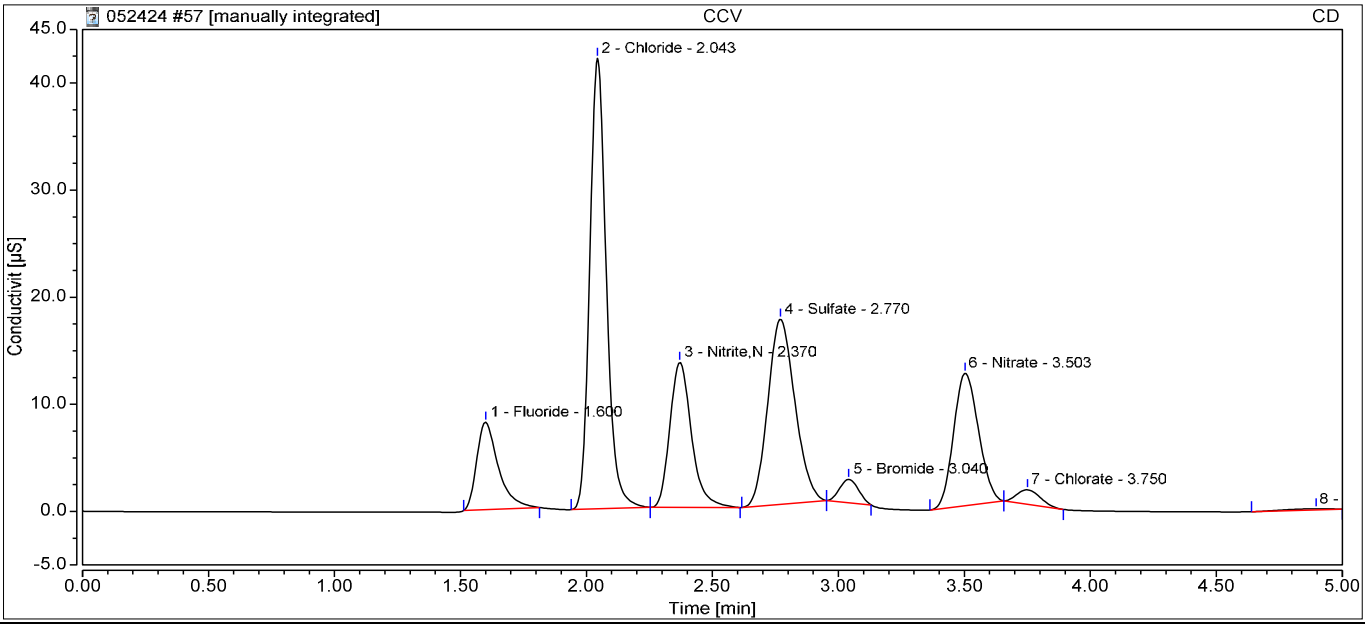
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	50.0000
1	2.04	Chloride	BMB	6.482	42.1411	2107.0564	50.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	50.0000
3	2.75	Sulfate	BMB	7.271	70.4708	3523.5378	50.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	50.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	50.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	50.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	50.0000
Total:			**0.000**	**13.753**		**5630.59**	

57 CCV

Sample Name:	**CCV**	*Injection Volume:*	**5.00**
Vial Number:	**R1**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/24/2024 22:06**	*Sample Weight:*	**1.0000**

Run Time:



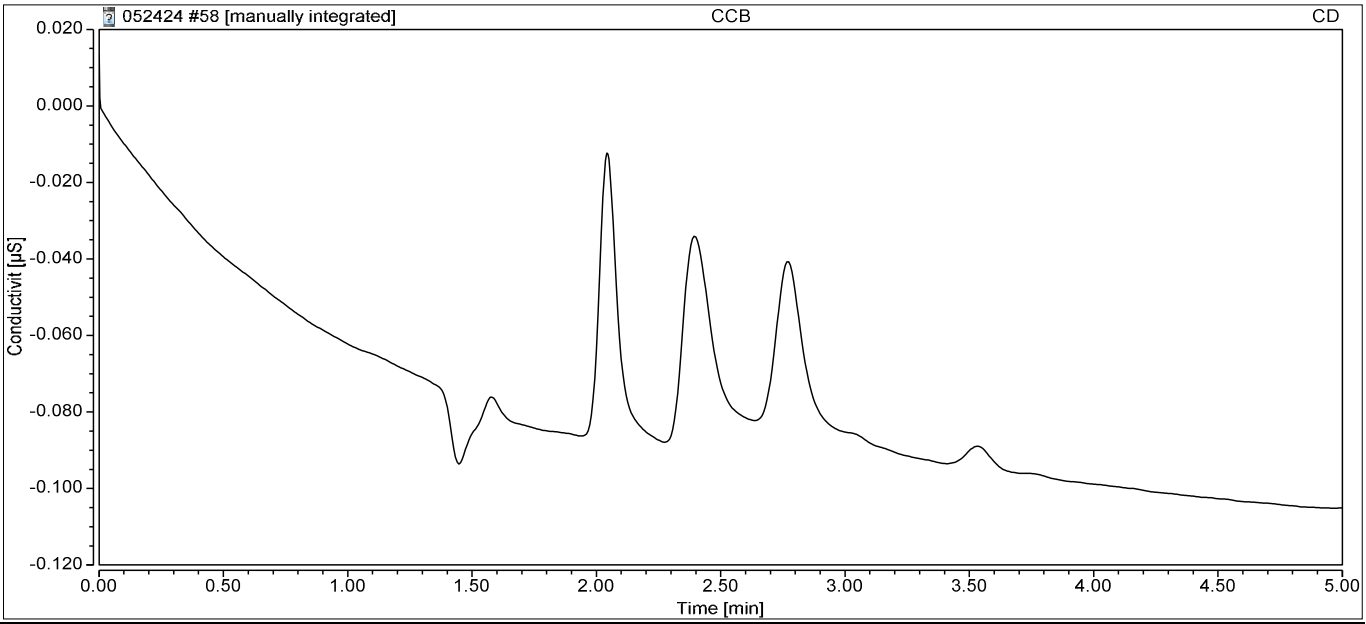
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.60	Fluoride	BMB*	0.812	4.3477	4.3477	1.0000
2	2.04	Chloride	BMB	3.202	21.0122	21.0122	1.0000
3	2.37	Nitrite,N	BMB	1.350	4.2006	4.2006	1.0000
4	2.77	Sulfate	BMb*	2.156	21.5837	21.5837	1.0000
5	3.04	Bromide	bMB*	0.189	4.3374	4.3374	1.0000
6	3.50	Nitrate	BMB	1.414	4.2152	4.2152	1.0000
7	3.75	Chlorate	BMB	0.144	4.6473	4.6473	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**9.267**		**64.34**	

58 CCB

Sample Name:	**CCB**	*Injection Volume:*	**5.00**
Vial Number:	**R4**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/24/2024 22:12**	*Sample Weight:*	**1.0000**

Run Time:



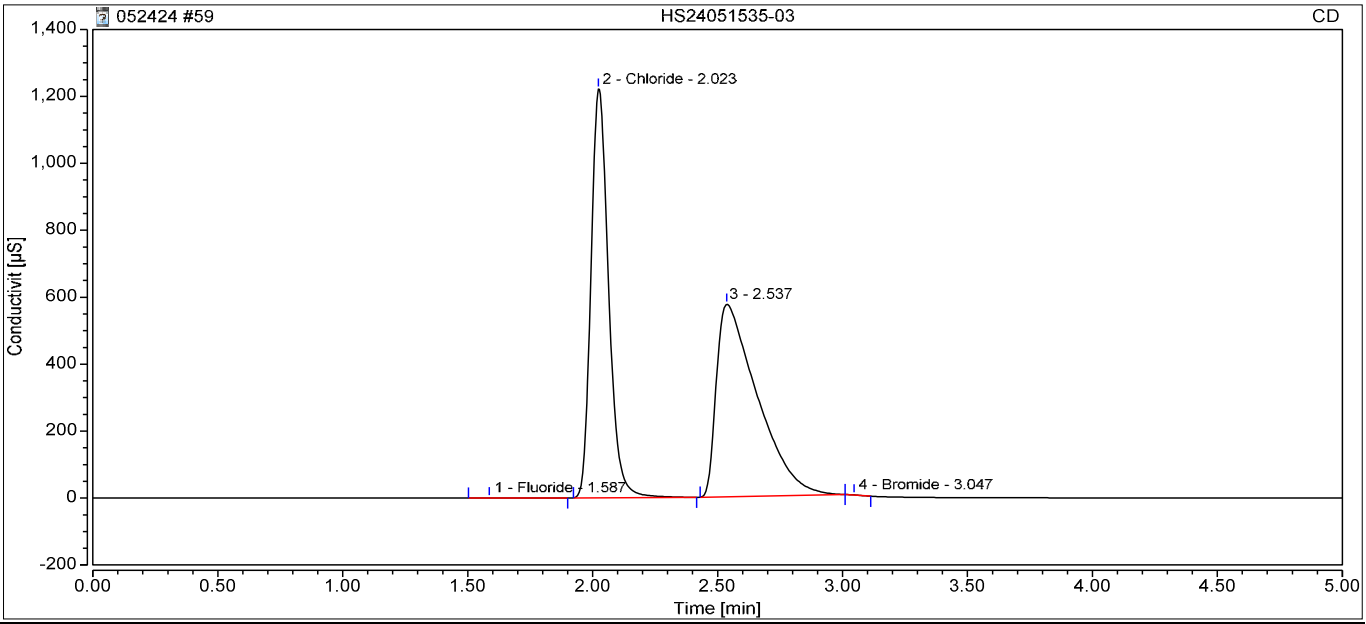
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.000**		**0.00**	

59 HS24051535-03

Sample Name:	**HS24051535-03**	*Injection Volume:*	**5.00**
Vial Number:	**GA1**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/24/2024 22:24**	*Sample Weight:*	**1.0000**

Run Time:



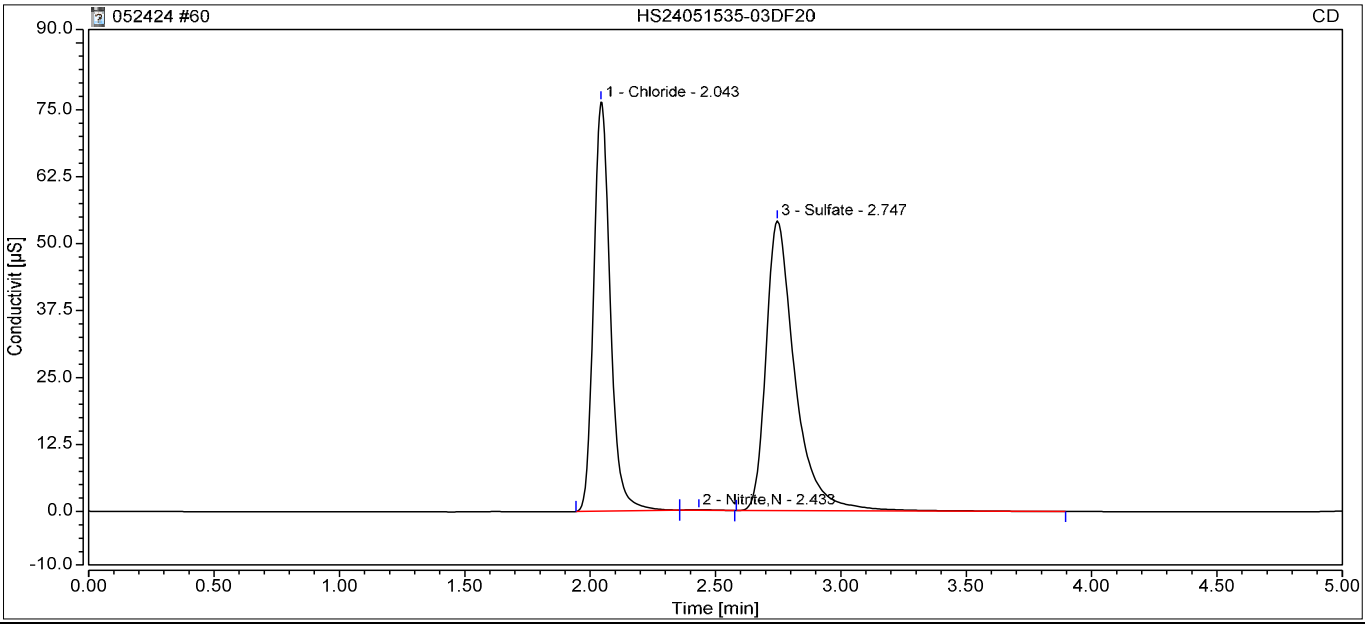
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.59	Fluoride	BMB	0.058	0.4211	0.4211	1.0000
2	2.02	Chloride	BMB	99.719	642.6986	642.6986	1.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	1.0000
4	3.05	Bromide	BMB	0.027	0.7017	0.7017	1.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**99.805**		**643.82**	

60 HS24051535-03DF20

Sample Name:	**HS24051535-03DF20**	*Injection Volume:*	**5.00**
Vial Number:	**GA2**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**20.0000**
Recording Time:	**05/24/2024 22:29**	*Sample Weight:*	**1.0000**

Run Time:



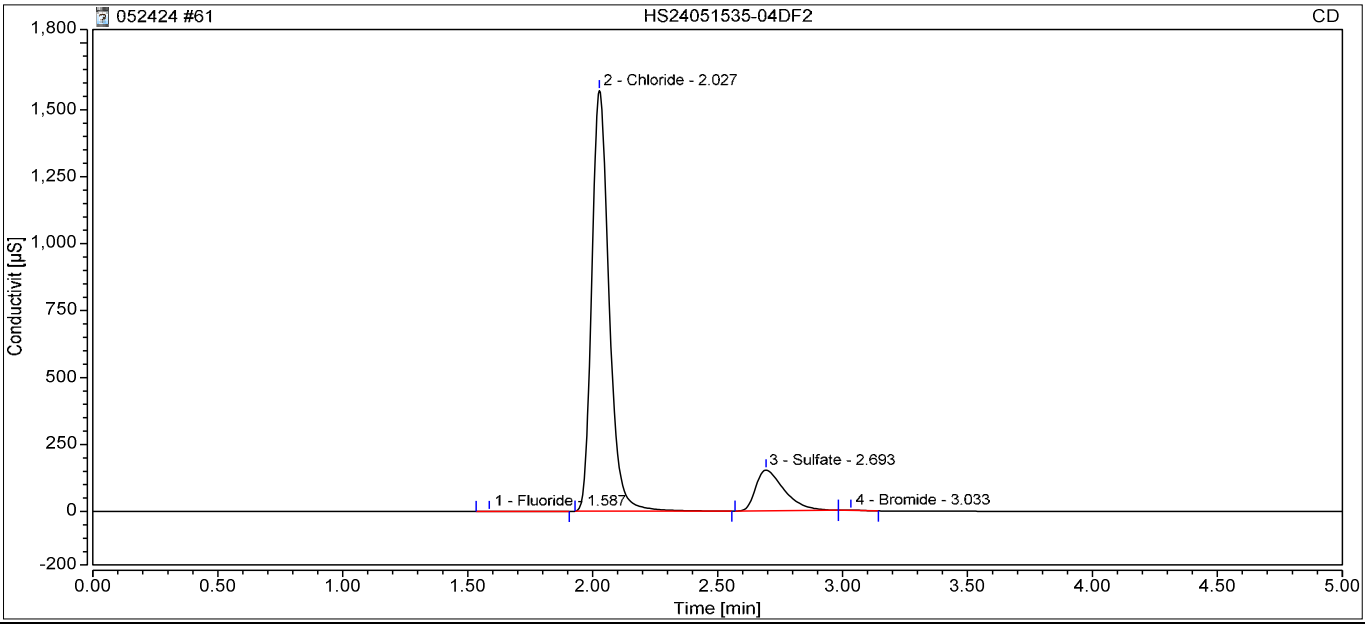
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	20.0000
1	2.04	Chloride	BMB	5.881	38.2673	765.3470	20.0000
2	2.43	Nitrite,N	BMB	0.010	0.0835	1.6705	20.0000
3	2.75	Sulfate	BMB	7.245	70.2295	1404.5898	20.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	20.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	20.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	20.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	20.0000
Total:			**0.000**	**13.136**		**2171.61**	

61 HS24051535-04DF2

Sample Name:	**HS24051535-04DF2**	*Injection Volume:*	**5.00**
Vial Number:	**GA3**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**2.0000**
Recording Time:	**05/24/2024 22:35**	*Sample Weight:*	**1.0000**

Run Time:



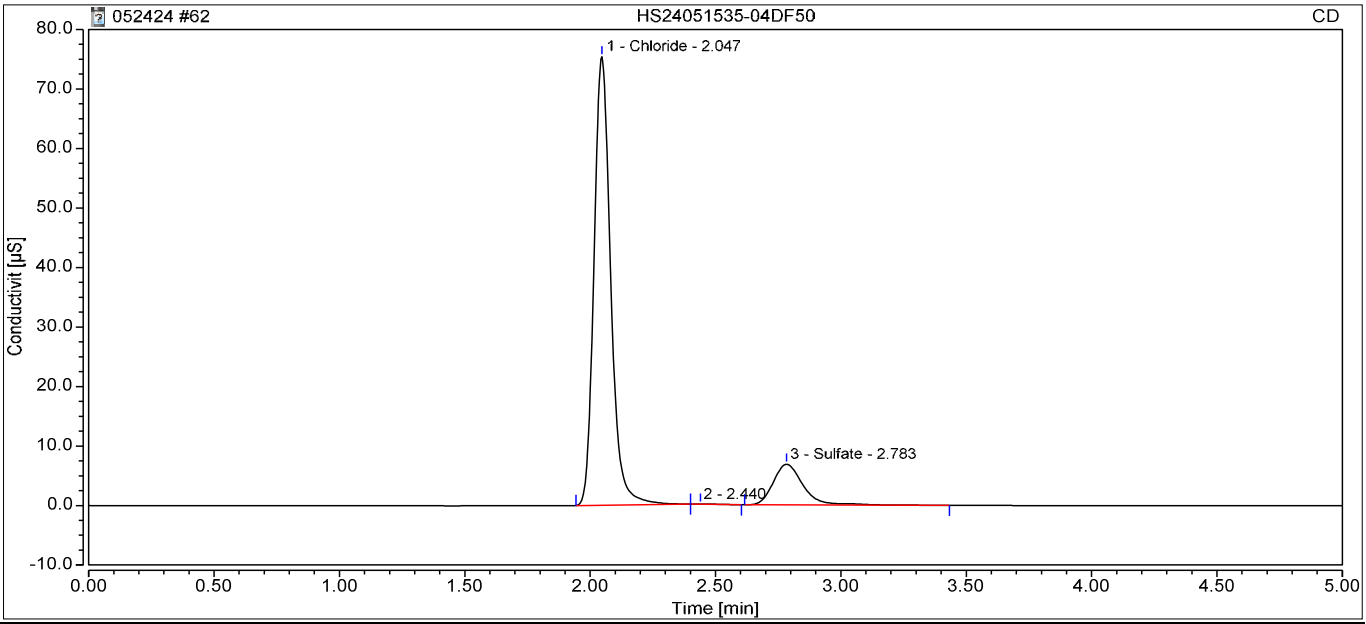
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.59	Fluoride	BMB	0.011	0.1688	0.3375	2.0000
2	2.03	Chloride	BMB	125.817	810.7956	1621.5911	2.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	2.0000
3	2.69	Sulfate	BMB	20.084	185.1333	370.2666	2.0000
4	3.03	Bromide	BMB	0.108	2.5477	5.0953	2.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	2.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	2.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	2.0000
Total:			**0.000**	**146.020**		**1997.29**	

62 HS24051535-04DF50

Sample Name:	**HS24051535-04DF50**	*Injection Volume:*	**5.00**
Vial Number:	**GA4**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**50.0000**
Recording Time:	**05/24/2024 22:41**	*Sample Weight:*	**1.0000**

Run Time:



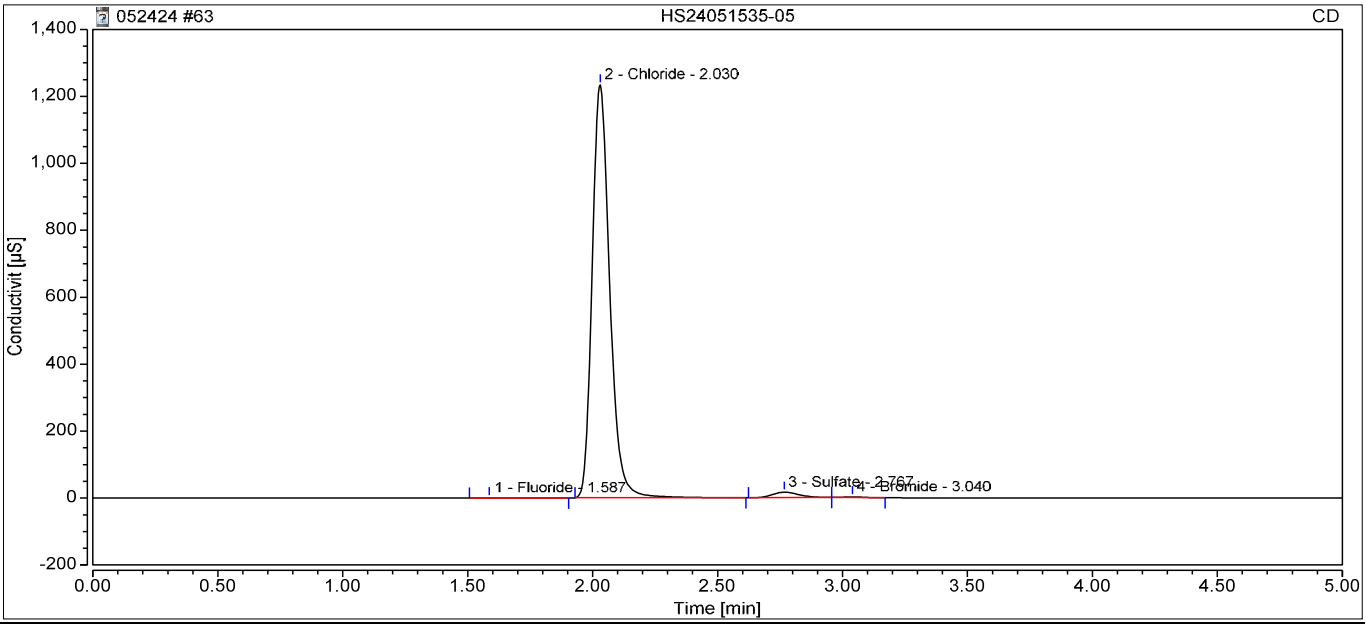
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	50.0000
1	2.05	Chloride	BMB	5.812	37.8231	1891.1529	50.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	50.0000
3	2.78	Sulfate	BMB	0.946	9.7246	486.2320	50.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	50.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	50.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	50.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	50.0000
Total:			**0.000**	**6.758**		**2377.38**	

63 HS24051535-05

Sample Name:	**HS24051535-05**	*Injection Volume:*	**5.00**
Vial Number:	**GA5**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/24/2024 22:47**	*Sample Weight:*	**1.0000**

Run Time:



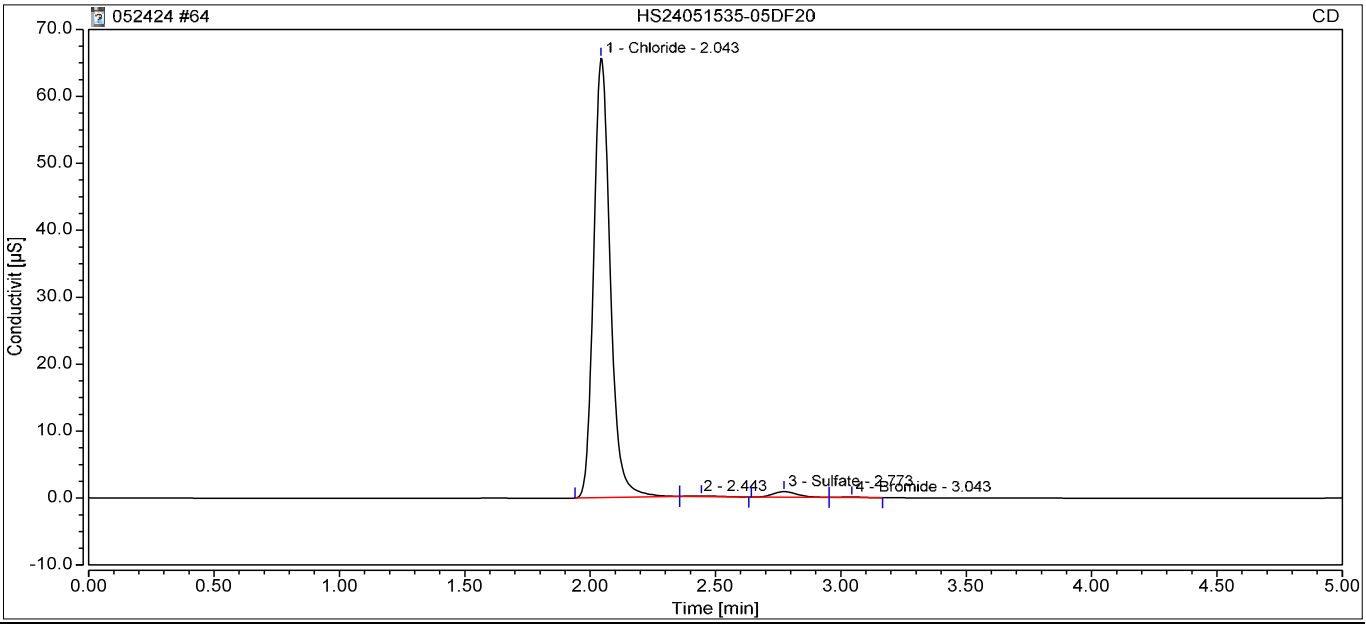
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.59	Fluoride	BMB	0.062	0.4431	0.4431	1.0000
2	2.03	Chloride	BMB	100.222	645.9376	645.9376	1.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	1.0000
3	2.77	Sulfate	BMB	2.023	20.2898	20.2898	1.0000
4	3.04	Bromide	BMB	0.188	4.3282	4.3282	1.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**102.496**		**671.00**	

64 HS24051535-05DF20

Sample Name:	**HS24051535-05DF20**	*Injection Volume:*	**5.00**
Vial Number:	**GA6**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**20.0000**
Recording Time:	**05/24/2024 22:53**	*Sample Weight:*	**1.0000**

Run Time:



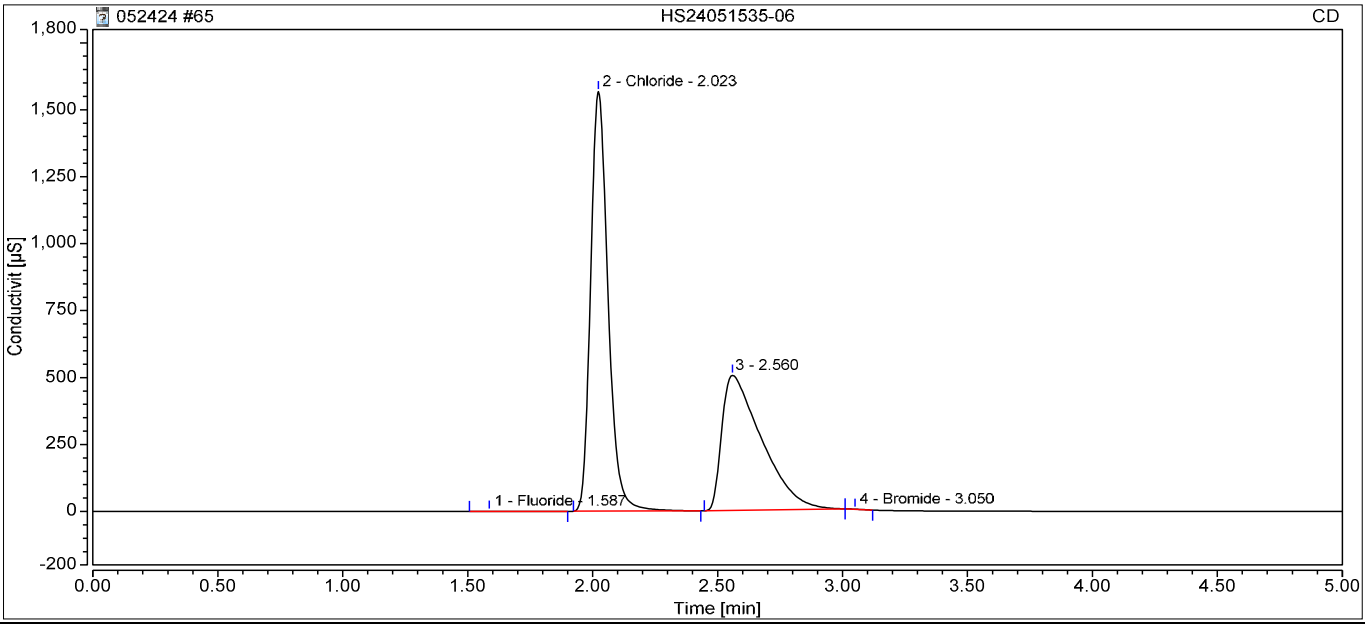
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	20.0000
1	2.04	Chloride	BMB	5.028	32.7745	655.4902	20.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	20.0000
3	2.77	Sulfate	BMB	0.094	1.2987	25.9734	20.0000
4	3.04	Bromide	BMB	0.007	0.2406	4.8112	20.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	20.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	20.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	20.0000
Total:			**0.000**	**5.130**		**686.27**	

65 HS24051535-06

Sample Name:	**HS24051535-06**	*Injection Volume:*	**5.00**
Vial Number:	**GA7**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/24/2024 22:59**	*Sample Weight:*	**1.0000**

Run Time:



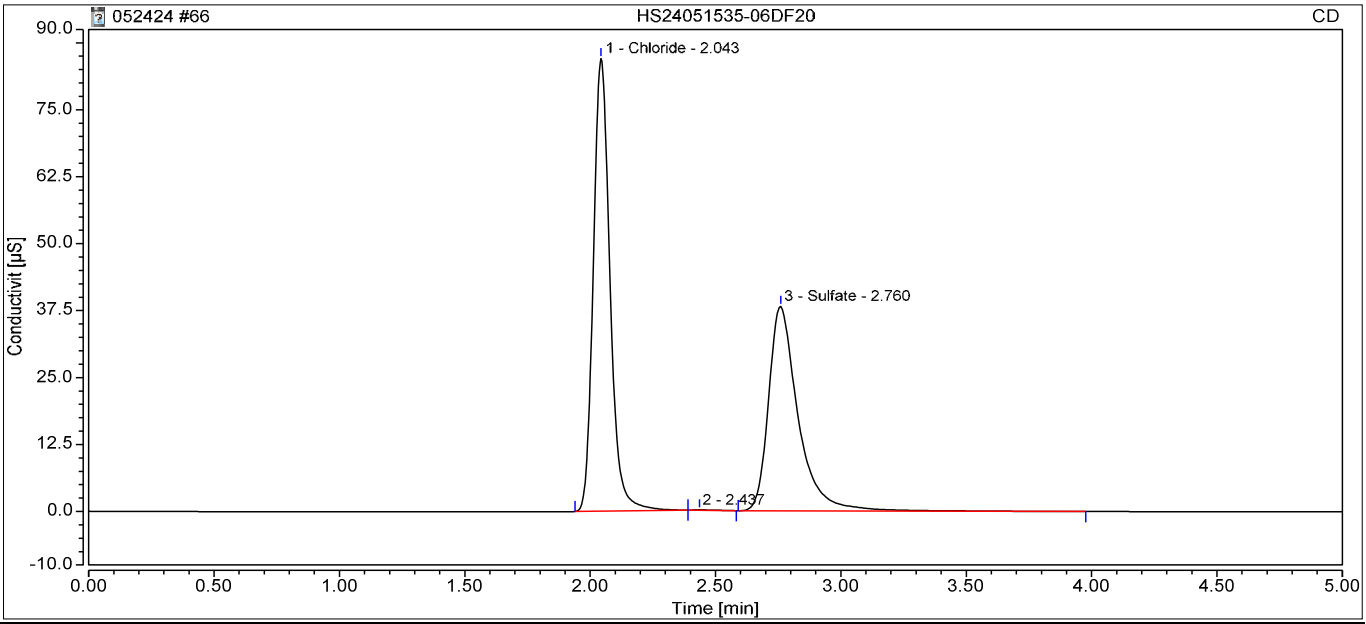
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.59	Fluoride	BMB	0.063	0.4467	0.4467	1.0000
2	2.02	Chloride	BMB	126.522	815.3411	815.3411	1.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	1.0000
4	3.05	Bromide	BMB	0.033	0.8420	0.8420	1.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**126.618**		**816.63**	

66 HS24051535-06DF20

Sample Name:	**HS24051535-06DF20**	*Injection Volume:*	**5.00**
Vial Number:	**GA8**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**20.0000**
Recording Time:	**05/24/2024 23:04**	*Sample Weight:*	**1.0000**

Run Time:



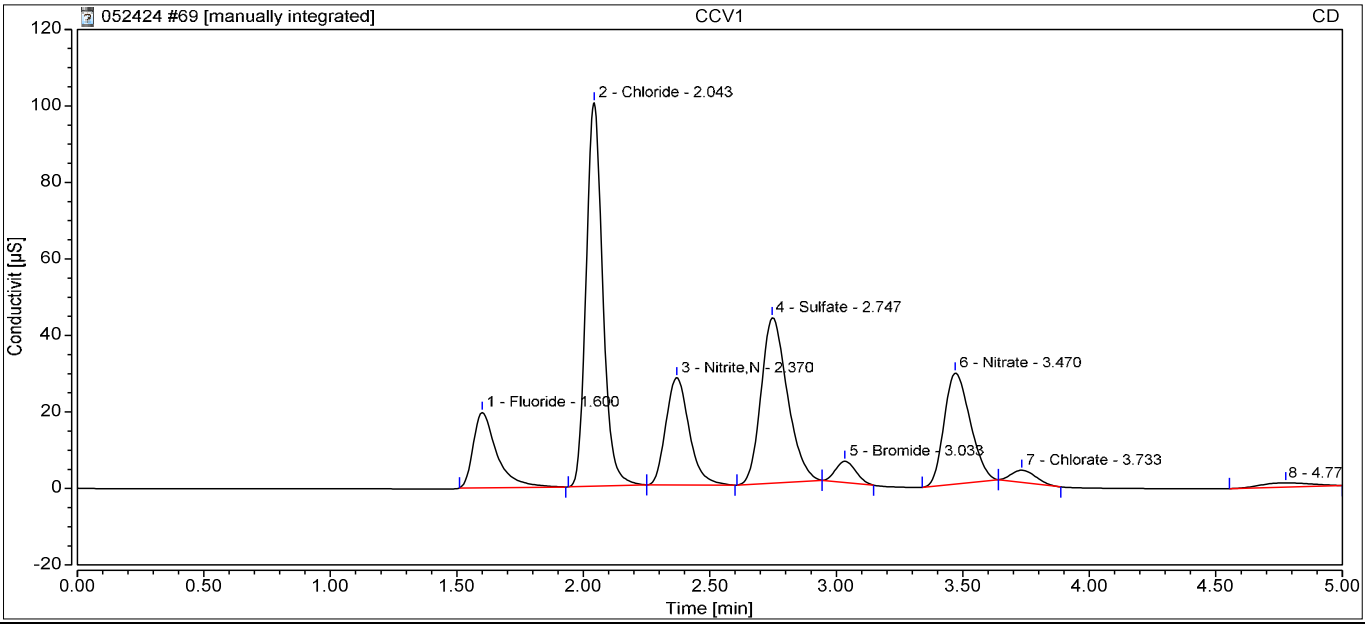
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	20.0000
1	2.04	Chloride	BMB	6.505	42.2836	845.6722	20.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	20.0000
3	2.76	Sulfate	BMB	5.201	50.9281	1018.5619	20.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	20.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	20.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	20.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	20.0000
Total:			**0.000**	**11.706**		**1864.23**	

69 CCV1

Sample Name:	**CCV1**	*Injection Volume:*	**5.00**
Vial Number:	**R3**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/24/2024 23:28**	*Sample Weight:*	**1.0000**

Run Time:



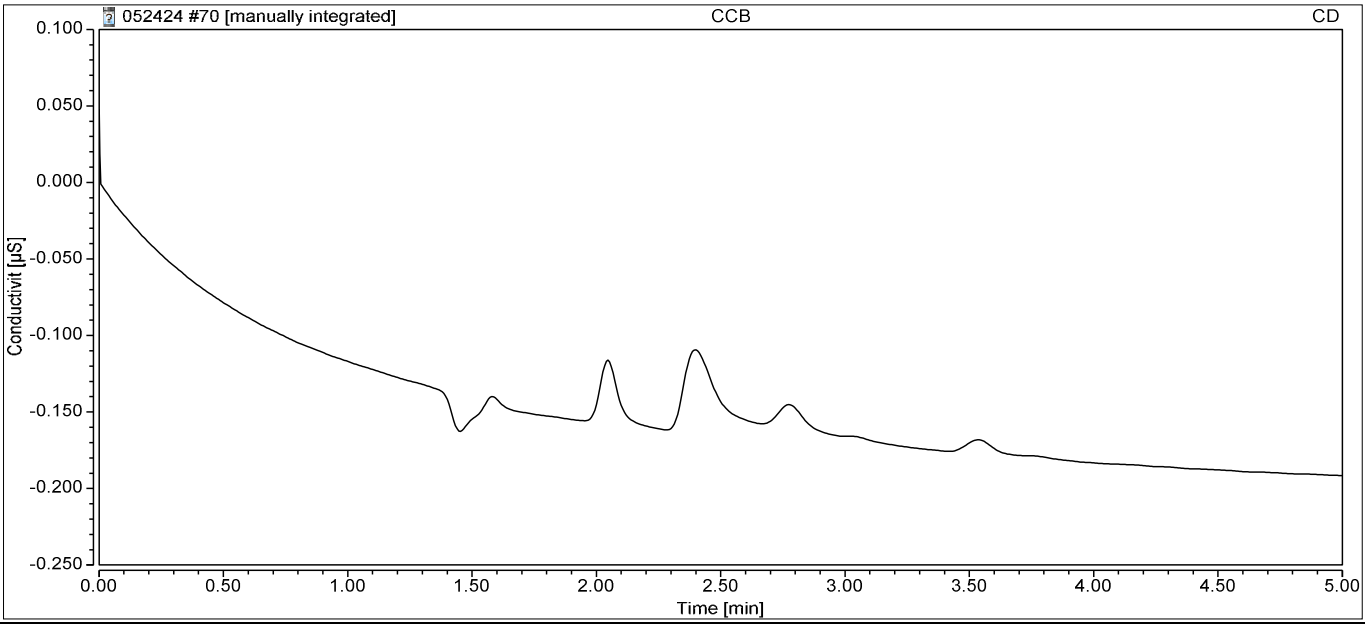
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.60	Fluoride	BMB	2.125	10.8343	10.8343	1.0000
2	2.04	Chloride	BMB	7.631	49.5402	49.5402	1.0000
3	2.37	Nitrite,N	BMB	2.992	9.8135	9.8135	1.0000
4	2.75	Sulfate	BMb*	5.207	50.9889	50.9889	1.0000
5	3.03	Bromide	bMB*	0.508	10.8354	10.8354	1.0000
6	3.47	Nitrate	BMB	3.456	10.1684	10.1684	1.0000
7	3.73	Chlorate	BMB	0.354	11.2343	11.2343	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**22.273**		**153.42**	

70 CCB

Sample Name:	**CCB**	*Injection Volume:*	**5.00**
Vial Number:	**R7**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/24/2024 23:34**	*Sample Weight:*	**1.0000**

Run Time:



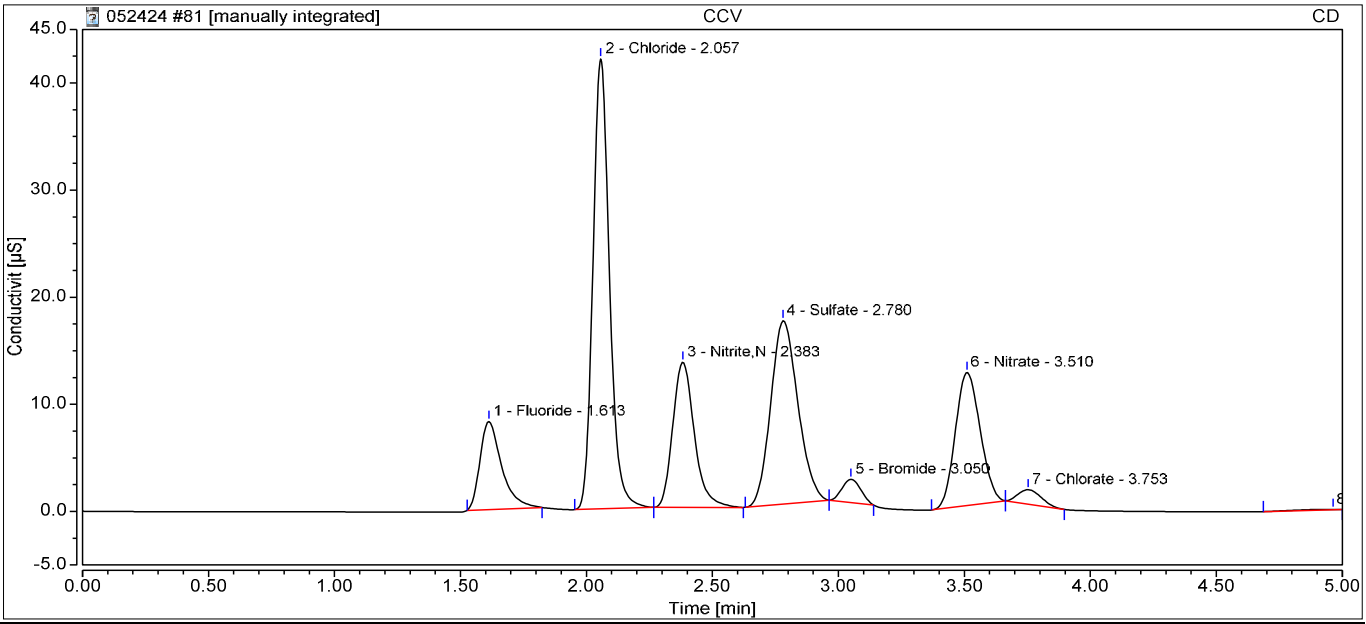
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.000**		**0.00**	

81 CCV

Sample Name:	**CCV**	*Injection Volume:*	**5.00**
Vial Number:	**R1**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/25/2024 00:50**	*Sample Weight:*	**1.0000**

Run Time:



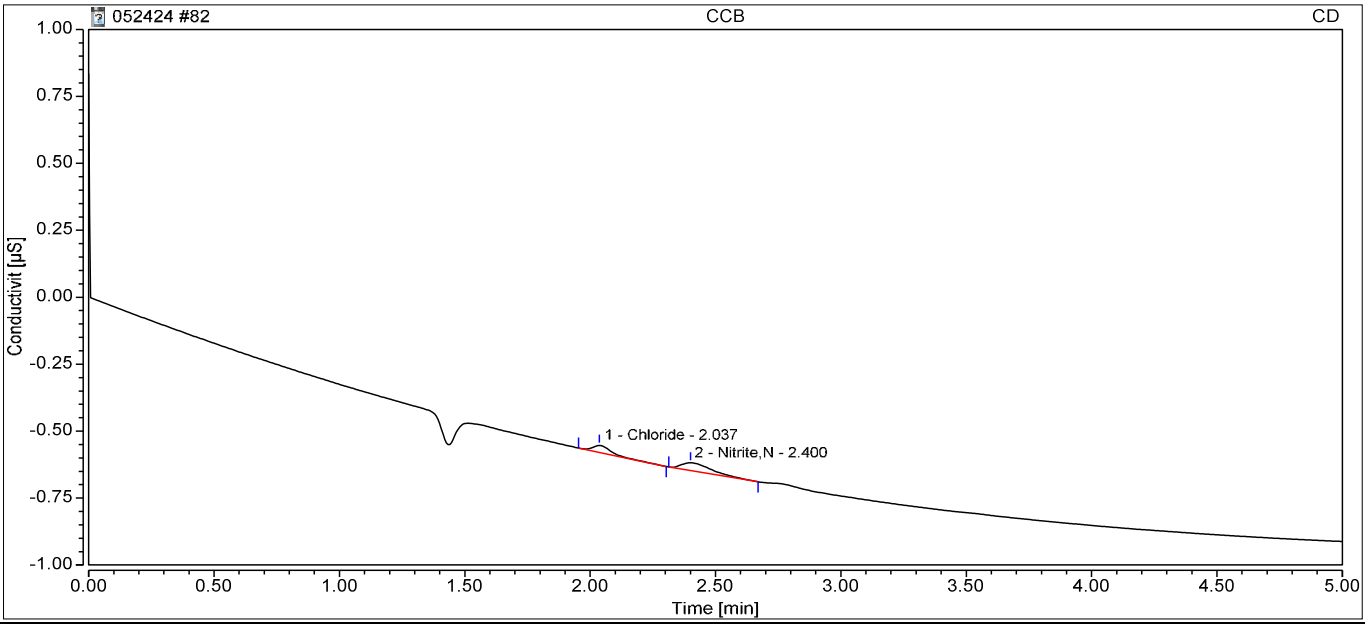
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.61	Fluoride	BMB*	0.817	4.3744	4.3744	1.0000
2	2.06	Chloride	BMB	3.188	20.9187	20.9187	1.0000
3	2.38	Nitrite,N	BMB	1.349	4.1973	4.1973	1.0000
4	2.78	Sulfate	BMb*	2.137	21.3991	21.3991	1.0000
5	3.05	Bromide	bMB*	0.188	4.3294	4.3294	1.0000
6	3.51	Nitrate	BMB	1.416	4.2210	4.2210	1.0000
7	3.75	Chlorate	BMB	0.144	4.6257	4.6257	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**9.238**		**64.07**	

82 CCB

Sample Name:	**CCB**	*Injection Volume:*	**5.00**
Vial Number:	**R6**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/25/2024 01:01**	*Sample Weight:*	**1.0000**

Run Time:



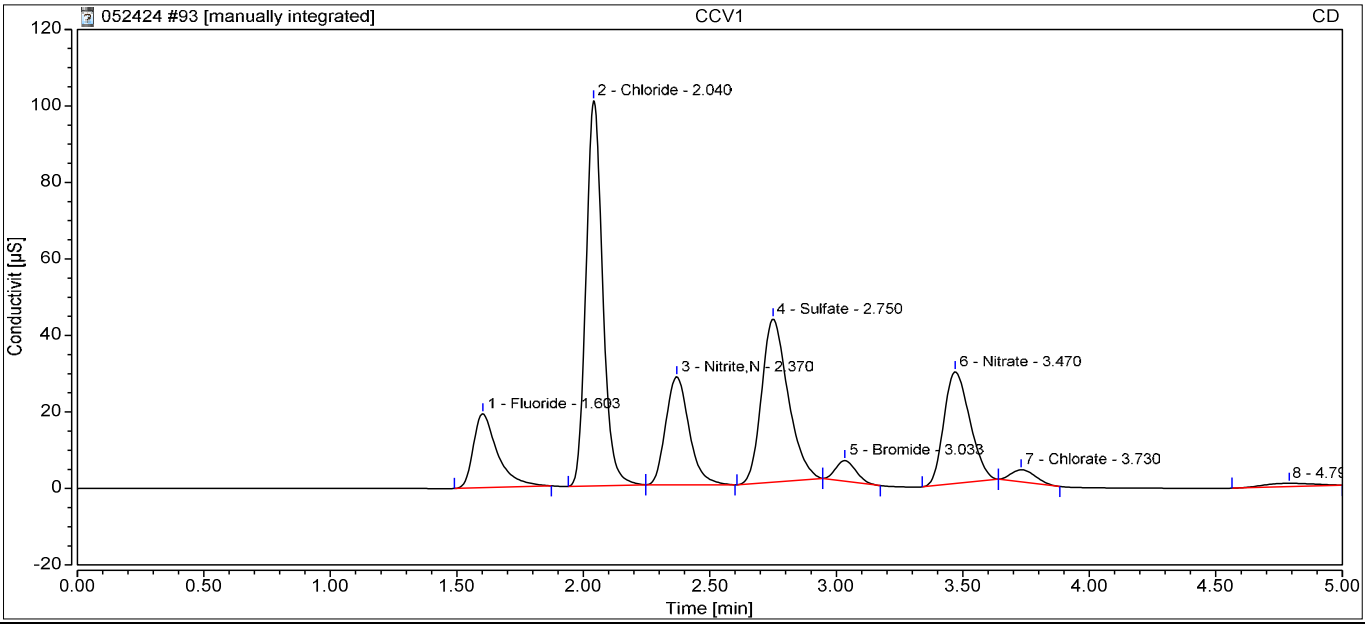
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	1.0000
1	2.04	Chloride	BMB	0.002	0.4008	0.4008	1.0000
2	2.40	Nitrite,N	BMB	0.004	0.0669	0.0669	1.0000
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.007**		**0.47**	

93 CCV1

Sample Name:	**CCV1**	*Injection Volume:*	**5.00**
Vial Number:	**R3**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/25/2024 02:06**	*Sample Weight:*	**1.0000**

Run Time:



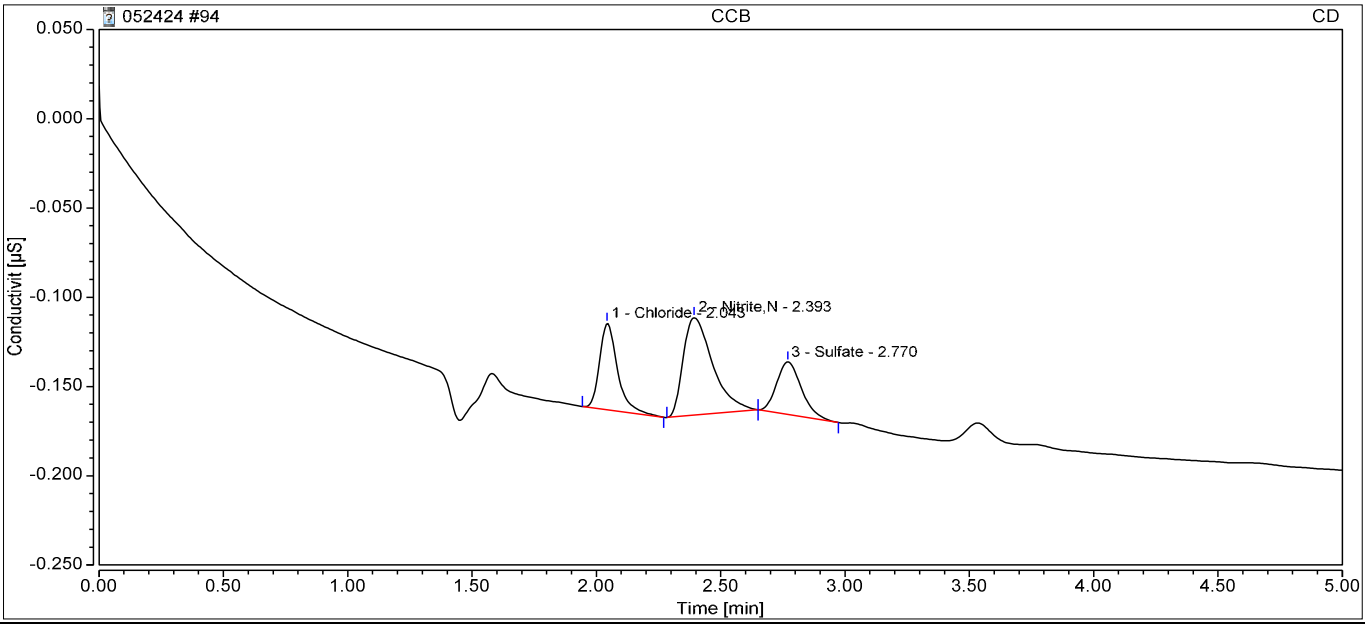
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.60	Fluoride	BMB*	2.135	10.8837	10.8837	1.0000
2	2.04	Chloride	BMB	7.684	49.8798	49.8798	1.0000
3	2.37	Nitrite,N	BMB	3.021	9.9198	9.9198	1.0000
4	2.75	Sulfate	BMB	5.159	50.5273	50.5273	1.0000
5	3.03	Bromide	BMB	0.491	10.5117	10.5117	1.0000
6	3.47	Nitrate	BMB	3.483	10.2455	10.2455	1.0000
7	3.73	Chlorate	BMB	0.356	11.3046	11.3046	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**22.329**		**153.27**	

94 CCB

Sample Name:	**CCB**	*Injection Volume:*	**5.00**
Vial Number:	**R7**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/25/2024 02:17**	*Sample Weight:*	**1.0000**

Run Time:



Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	1.0000
1	2.04	Chloride	BMB	0.004	0.4125	0.4125	1.0000
2	2.39	Nitrite,N	BMB	0.008	0.0765	0.0765	1.0000
3	2.77	Sulfate	BMB	0.003	0.3989	0.3989	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.015**		**0.89**	

HS24051535 Wetchem TOC_W ICAL TABLE

ALS WO# HS24051535

	Type	Analysis	Sample Name	Sample ID	Origin	Manual Diluti	Result 01337385	Notes
1	Standard	NPOC	CAL	3100608307	04.25.2024.	1.000		
2	Unknown	NPOC	ICV	3100607917	04.25.2024.	1.000	NPOC:9.687mg/L	
3	Unknown	NPOC	ICB		04.25.2024.	1.000	NPOC:0.2979mg/L	
4	Unknown	NPOC	CCV	325104207	04.25.2024.	1.000	NPOC:25.03mg/L	
5	Unknown	NPOC	CCB		04.25.2024.	1.000	NPOC:0.06766mg/	
6	Unknown	NPOC	MBLK-04252024		04.25.2024.	1.000	NPOC:0.1478mg/L	
7	Unknown	NPOC	LCS-04252024	3100607917	04.25.2024.	1.000	NPOC:5.144mg/L	
8	Unknown	NPOC	LCSD-04052024		04.25.2024.	1.000	NPOC:5.082mg/L	
9	Unknown	NPOC	HS24041423-01		04.25.2024.	1.000	NPOC:6.750mg/L	
10	Unknown	NPOC	HS24041423-01MS		04.25.2024.	1.000	NPOC:15.86mg/L	
11	Unknown	NPOC	HS24041558-01		04.25.2024.	1.000	NPOC:0.01517mg/	
12	Unknown	NPOC	HS24040953-01		04.25.2024.	1.000	NPOC:10.42mg/L	
13	Unknown	NPOC	HS24040953-04		04.25.2024.	1.000	NPOC:7.332mg/L	
14	Unknown	NPOC	HS24040954-01		04.25.2024.	1.000	NPOC:4.335mg/L	
15	Unknown	NPOC	HS24040954-02		04.25.2024.	1.000	NPOC:8.586mg/L	
16	Unknown	NPOC	CCV	325104207	04.25.2024.	1.000	NPOC:25.04mg/L	
17	Unknown	NPOC	CCB		04.25.2024.	1.000	NPOC:0.09033mg/	
18	Unknown	NPOC	HS24040954-04		04.25.2024.	1.000	NPOC:4.829mg/L	
19	Unknown	NPOC	HS24040954-05		04.25.2024.	1.000	NPOC:0.8624mg/L	
20	Unknown	NPOC	HS24041487-01		04.25.2024.	1.000	NPOC:22.80mg/L	
21	Unknown	NPOC	HS24041698-01DF10		04.25.2024.	1.000	NPOC:0.9665mg/L	
22	Unknown	NPOC	CCV	325104207	04.25.2024.	1.000	NPOC:25.13mg/L	
23	Unknown	NPOC	CCB		04.25.2024.	1.000	NPOC:0.09643mg/	
24	Unknown	NPOC	CCV	325104207	TOC_W 906	1.000	NPOC:24.67mg/L	
25	Unknown	NPOC	CCB		TOC_W 906	1.000	NPOC:0.1426mg/L	
26	Unknown	NPOC	MBLK-04252024		TOC_W 906	1.000	NPOC:0.1161mg/L	
27	Unknown	NPOC	LCS-04252024	3100607917	TOC_W 906	1.000	NPOC:5.011mg/L	
28	Unknown	NPOC	LCSD-04052024		TOC_W 906	1.000	NPOC:5.047mg/L	
29	Unknown	NPOC	HS24041538-14DF10		TOC_W 906	1.000	NPOC:5.009mg/L	
30	Unknown	NPOC	HS24041538-15DF10		TOC_W 906	1.000	NPOC:3.637mg/L	
31	Unknown	NPOC	HS24041538-16DF10		TOC_W 906	1.000	NPOC:3.855mg/L	
32	Unknown	NPOC	HS24041538-17DF10		TOC_W 906	1.000	NPOC:6.520mg/L	
33	Unknown	NPOC	HS24040801-07		TOC_W 906	1.000	NPOC:4.786mg/L	
34	Unknown	NPOC	HS24040801-07MS		TOC_W 906	1.000	NPOC:12.22mg/L	
35	Unknown	NPOC	HS24040885-01		TOC_W 906	1.000	NPOC:59.40mg/L	
36	Unknown	NPOC	CCV	325104207	TOC_W 906	1.000	NPOC:24.81mg/L	
37	Unknown	NPOC	CCB		TOC_W 906	1.000	NPOC:0.2311mg/L	
38	Unknown	NPOC	HS24040885-02		TOC_W 906	1.000	NPOC:40.86mg/L	
39	Unknown	NPOC	HS24040885-03		TOC_W 906	1.000	NPOC:44.30mg/L	
40	Unknown	NPOC	HS24040885-06		TOC_W 906	1.000	NPOC:76.29mg/L	
41	Unknown	NPOC	HS24041341-11DF10		TOC_W 906	1.000	NPOC:9.155mg/L	
42	Unknown	NPOC	HS24041341-12DF10		TOC_W 906	1.000	NPOC:2.129mg/L	
43	Unknown	NPOC	HS24041341-13DF10		TOC_W 906	1.000	NPOC:20.08mg/L	
44	Unknown	NPOC	HS24041341-14DF10		TOC_W 906	1.000	NPOC:2.533mg/L	
45	Unknown	NPOC	HS24041604-08DF10		TOC_W 906	1.000	NPOC:1.071mg/L	
46	Unknown	NPOC	CCV	325104207	TOC_W 906	1.000	NPOC:24.86mg/L	
47	Unknown	NPOC	CCB		TOC_W 906	1.000	NPOC:0.1935mg/L	

01337386

	Status	Date / Time	Vial
1	Completed	4/25/2024 8:19:26	1, 2, 3, 4, 5,
2	Completed	4/25/2024 8:31:26	8
3	Completed	4/25/2024 8:51:24	1
4	Completed	4/25/2024 9:14:05	9
5	Completed	4/25/2024 9:23:12	10
6	Completed	4/25/2024 9:33:46	11
7	Completed	4/25/2024 9:45:46	12
8	Completed	4/25/2024 9:57:15	13
9	Completed	4/25/2024 10:08:5	14
10	Completed	4/25/2024 10:21:0	15
11	Completed	4/25/2024 10:29:5	16
12	Completed	4/25/2024 10:42:5	17
13	Completed	4/25/2024 10:54:4	18
14	Completed	4/25/2024 11:05:5	19
15	Completed	4/25/2024 11:17:2	20
16	Completed	4/25/2024 11:40:1	9
17	Completed	4/25/2024 11:49:1	10
18	Completed	4/26/2024 12:11:1	21
19	Completed	4/26/2024 12:21:3	22
20	Completed	4/26/2024 12:33:5	23
21	Completed	4/26/2024 12:44:1	24
22	Completed	4/26/2024 1:06:44	9
23	Completed	4/26/2024 1:15:39	10
24	Completed	4/26/2024 1:34:03	25
25	Completed	4/26/2024 1:45:52	26
26	Completed	4/26/2024 2:00:42	11
27	Completed	4/26/2024 2:14:48	12
28	Completed	4/26/2024 2:29:16	13
29	Completed	4/26/2024 2:46:43	27
30	Completed	4/26/2024 3:00:36	28
31	Completed	4/26/2024 3:14:21	29
32	Completed	4/26/2024 3:28:38	30
33	Completed	4/26/2024 3:42:41	31
34	Completed	4/26/2024 3:57:39	32
35	Completed	4/26/2024 4:13:23	33
36	Completed	4/26/2024 4:31:56	25
37	Completed	4/26/2024 4:43:46	26
38	Completed	4/26/2024 5:02:09	34
39	Completed	4/26/2024 5:17:31	35
40	Completed	4/26/2024 5:33:05	36
41	Completed	4/26/2024 5:47:28	37
42	Completed	4/26/2024 6:00:56	38
43	Completed	4/26/2024 6:16:22	39
44	Completed	4/26/2024 6:29:56	40
45	Completed	4/26/2024 6:42:50	41
46	Completed	4/26/2024 7:01:22	25
47	Completed	4/26/2024 7:12:55	26

HS24051535 Wetchem TOC_W ICAL

ALS WO# HS24051535

TOC-Control L Report

Instr.Information

Instrument Options	TOC/ASI/IC Unit/Sparge Kit/
Catalyst	Regular Sensitivity

Cal. Curve

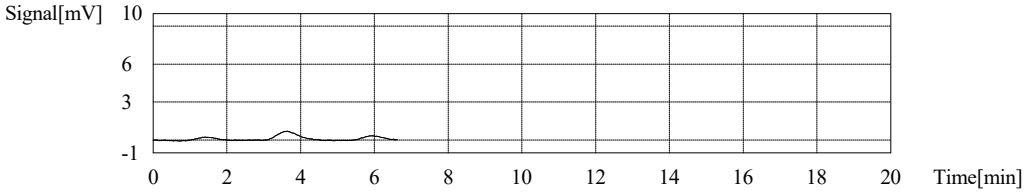
Sample Name:	CAL
Sample ID:	3100608307
Cal. Curve:	04.25.2024.2024_04_25_18_47_38.cal
Status	Completed

Type	Anal.
Standard	NPOC

Conc: 0.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	1.030	50uL	1.000	*******		4/25/2024 7:02:15 PM
2	2.685	50uL	1.000	*******		4/25/2024 7:05:10 PM
3	1.273	50uL	1.000	*******		4/25/2024 7:07:50 PM

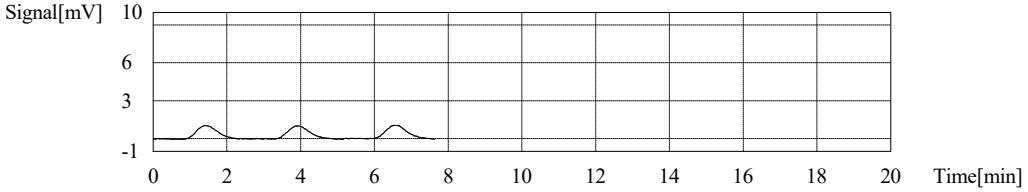
Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 1.663



Conc: 1.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	4.254	50uL	1.000	*******		4/25/2024 7:12:34 PM
2	4.362	50uL	1.000	*******		4/25/2024 7:15:50 PM
3	4.292	50uL	1.000	*******		4/25/2024 7:18:54 PM

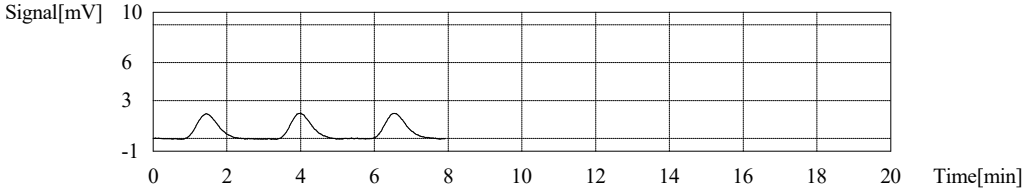
Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 4.303



Conc: 2.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	7.991	50uL	1.000	*******		4/25/2024 7:23:28 PM
2	8.033	50uL	1.000	*******		4/25/2024 7:26:37 PM
3	8.185	50uL	1.000	*******		4/25/2024 7:29:59 PM

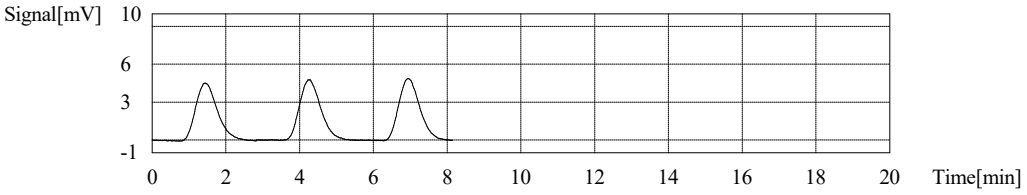
Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 8.070



Conc: 5.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	18.78	50uL	1.000	*******		4/25/2024 7:34:48 PM
2	19.04	50uL	1.000	*******		4/25/2024 7:38:05 PM
3	19.36	50uL	1.000	*******		4/25/2024 7:41:18 PM

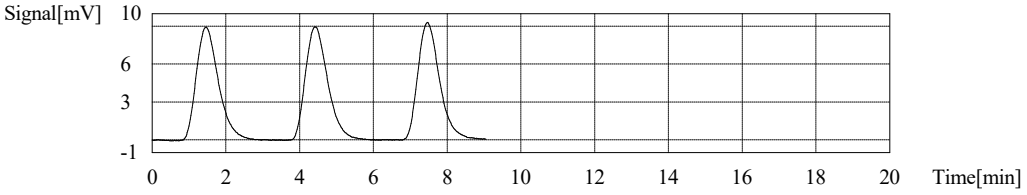
Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 19.06



Conc: 10.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	37.50	50uL	1.000	*******		4/25/2024 7:46:16 PM
2	37.56	50uL	1.000	*******		4/25/2024 7:49:55 PM
3	37.73	50uL	1.000	*******		4/25/2024 7:53:31 PM

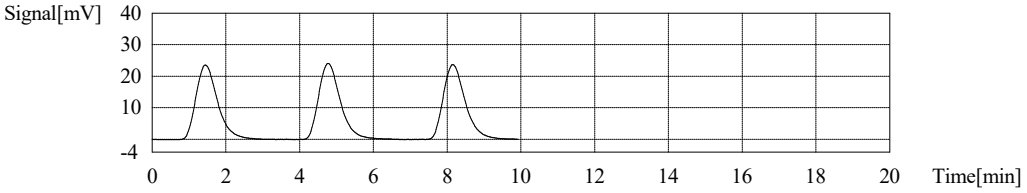
Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 37.60



Conc: 25.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	96.41	50uL	1.000	*******		4/25/2024 7:58:51 PM
2	97.85	50uL	1.000	*******		4/25/2024 8:02:48 PM
3	97.79	50uL	1.000	*******		4/25/2024 8:06:36 PM

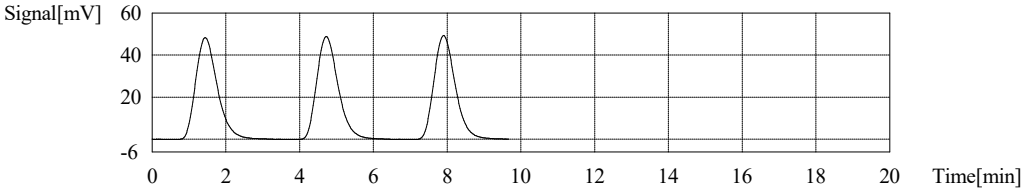
Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 97.35



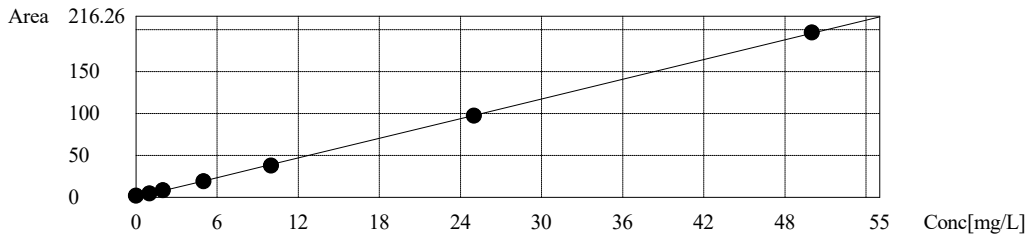
Conc: 50.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	196.6	50uL	1.000	*******		4/25/2024 8:11:53 PM
2	196.0	50uL	1.000	*******		4/25/2024 8:15:38 PM
3	197.2	50uL	1.000	*******		4/25/2024 8:19:26 PM

Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 196.6



Slope:	3.917
Intercept	0.000
r^2	0.9998
r	0.9999
RSE(%)	N/A
Zero Shift	Yes



Sample

Sample Name:	ICV
Sample ID:	3100607917
Origin:	04.25.2024.cal
Status	Completed
Chk. Result	

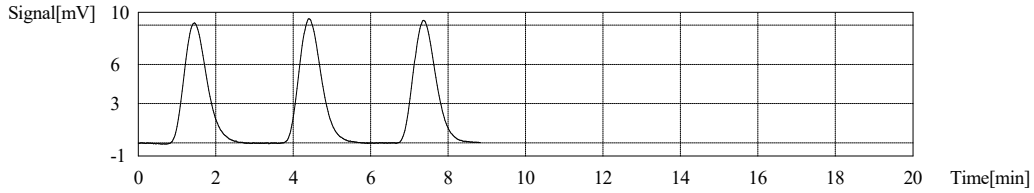
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.687mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	37.83	9.657mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/25/2024 8:24:23 PM
2	38.23	9.759mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/25/2024 8:27:56 PM
3	37.78	9.644mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/25/2024 8:31:26 PM

Mean Area	37.95
Mean Conc.	9.687mg/L



Sample

Sample Name:	ICB
Sample ID:	
Origin:	04.25.2024.cal
Status	Completed
Chk. Result	

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2979mg/L

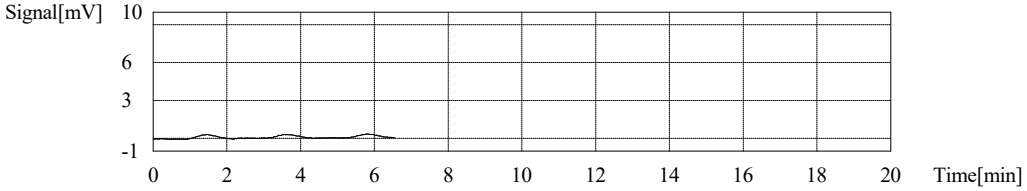
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.387	0.3541mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/25/2024 8:45:53 PM
2	1.077	0.2749mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/25/2024 8:48:39 PM
3	1.037	0.2647mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/25/2024 8:51:24 PM

TOC-Control L Report

Mean Area	1.167
Mean Conc.	0.2979mg/L



HS24051535 Wetchem TOC_W INJECT TABLE

ALS WO# HS24051535

	Type	Analysis	Sample Name	Sample ID	Origin	Manual Diluti	Result 01337393	Notes
1	Unknown	NPOC	CCV	325104207	04.25.2024.	1.000	NPOC:25.54mg/L	
2	Unknown	NPOC	CCB		04.25.2024.	1.000	NPOC:0.04740mg/	
3	Unknown	NPOC	MBLK-06082024		04.25.2024.	1.000	NPOC:0.05471mg/	
4	Unknown	NPOC	LCS-06082024	3100607917	04.25.2024.	1.000	NPOC:9.895mg/L	
5	Unknown	NPOC	LCSD-06082024		04.25.2024.	1.000	NPOC:9.850mg/L	
6	Unknown	NPOC	HS24051535-01		04.25.2024.	1.000	NPOC:9.023mg/L	
7	Unknown	NPOC	HS24051535-01MS		04.25.2024.	1.000	NPOC:13.39mg/L	
8	Unknown	NPOC	HS24051535-02		04.25.2024.	1.000	NPOC:12.35mg/L	
9	Unknown	NPOC	HS24051535-03		04.25.2024.	1.000	NPOC:40.32mg/L	
10	Unknown	NPOC	HS24051535-04		04.25.2024.	1.000	NPOC:30.81mg/L	
11	Unknown	NPOC	HS24051535-05		04.25.2024.	1.000	NPOC:36.95mg/L	
12	Unknown	NPOC	HS24051535-06		04.25.2024.	1.000	NPOC:13.00mg/L	
13	Unknown	NPOC	CCV	325104207	04.25.2024.	1.000	NPOC:25.81mg/L	
14	Unknown	NPOC	CCB		04.25.2024.	1.000	NPOC:0.1032mg/L	
15	Unknown	NPOC	HS24060177-02		04.25.2024.	1.000	NPOC:14.35mg/L	
16	Unknown	NPOC	HS24060040-01		04.25.2024.	1.000	NPOC:2.352mg/L	
17	Unknown	NPOC	HS24051946-02		04.25.2024.	1.000	NPOC:0.9047mg/L	
18	Unknown	NPOC	HS24060057-01		04.25.2024.	1.000	NPOC:12.98mg/L	
19	Unknown	NPOC	CCV	325104207	04.25.2024.	1.000	NPOC:25.41mg/L	
20	Unknown	NPOC	CCB		04.25.2024.	1.000	NPOC:0.09729mg/	
21	Unknown	NPOC	CCV	325104207	TOC_W 906	1.000	NPOC:25.66mg/L	
22	Unknown	NPOC	CCB		TOC_W 906	1.000	NPOC:0.1465mg/L	
23	Unknown	NPOC	MBLK-06082024		TOC_W 906	1.000	NPOC:0.07938mg/	
24	Unknown	NPOC	LCS-06082024	3100607917	TOC_W 906	1.000	NPOC:9.859mg/L	
25	Unknown	NPOC	LCSD-06082024		TOC_W 906	1.000	NPOC:9.808mg/L	
26	Unknown	NPOC	HS24060031-01		TOC_W 906	1.000	NPOC:22.92mg/L	
27	Unknown	NPOC	HS24060031-01MS		TOC_W 906	1.000	NPOC:26.57mg/L	
28	Unknown	NPOC	HS24060031-02		TOC_W 906	1.000	NPOC:8.600mg/L	
29	Unknown	NPOC	CCV	325104207	TOC_W 906	1.000	NPOC:25.55mg/L	
30	Unknown	NPOC	CCB		TOC_W 906	1.000	NPOC:0.1582mg/L	

01337394

	Status	Date / Time	Vial
1	Completed	6/8/2024 5:00:10 P	1
2	Completed	6/8/2024 5:09:19 P	2
3	Completed	6/8/2024 5:19:32 P	3
4	Completed	6/8/2024 5:32:51 P	4
5	Completed	6/8/2024 5:45:23 P	5
6	Completed	6/8/2024 5:57:36 P	6
7	Completed	6/8/2024 6:10:15 P	7
8	Completed	6/8/2024 6:22:31 P	8
9	Completed	6/8/2024 6:35:17 P	9
10	Completed	6/8/2024 6:48:03 P	10
11	Completed	6/8/2024 7:01:00 P	11
12	Completed	6/8/2024 7:13:33 P	12
13	Completed	6/8/2024 7:36:38 P	1
14	Completed	6/8/2024 7:45:59 P	2
15	Completed	6/8/2024 8:08:58 P	13
16	Completed	6/8/2024 8:20:32 P	14
17	Completed	6/8/2024 8:31:11 P	15
18	Completed	6/8/2024 8:43:57 P	16
19	Completed	6/8/2024 9:06:59 P	1
20	Completed	6/8/2024 9:16:19 P	2
21	Completed	6/8/2024 9:42:56 P	17
22	Completed	6/8/2024 9:55:22 P	18
23	Completed	6/8/2024 10:17:54	3
24	Completed	6/8/2024 10:33:49	4
25	Completed	6/8/2024 10:49:54	5
26	Completed	6/8/2024 11:17:13	19
27	Completed	6/8/2024 11:33:53	20
28	Completed	6/8/2024 11:50:11	21
29	Completed	6/9/2024 12:16:56	17
30	Completed	6/9/2024 12:29:27	18

HS24051535 Wetchem TOC_W INJECT

ALS WO# HS24051535

Instr.Information

Instrument Options TOC/ASI/IC Unit/Sparge Kit/
Catalyst Regular Sensitivity

Sample

Sample Name: CCV
Sample ID: 325104207
Origin: 04.25.2024.cal
Status Completed
Chk. Result

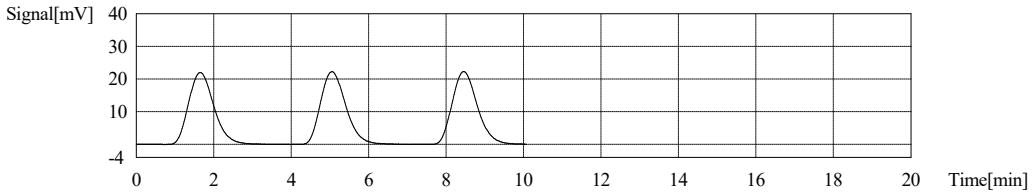
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.54mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	99.53	25.41mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/8/2024 4:52:23 PM
2	100.2	25.58mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/8/2024 4:56:20 PM
3	100.4	25.63mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/8/2024 5:00:10 PM

Mean Area 100.0
Mean Conc. 25.54mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: 04.25.2024.cal
Status Completed
Chk. Result

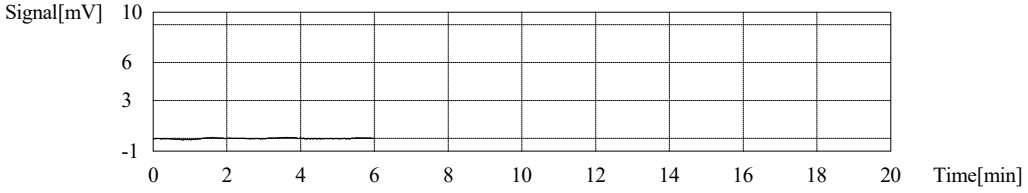
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.04740mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.2962	0.07561mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/8/2024 5:04:09 PM
2	0.1529	0.03903mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/8/2024 5:06:51 PM
3	0.1080	0.02757mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/8/2024 5:09:19 PM

Mean Area 0.1857
Mean Conc. 0.04740mg/L



Sample

Sample Name: MBLK-06082024
Sample ID:
Origin: 04.25.2024.cal
Status Completed
Chk. Result

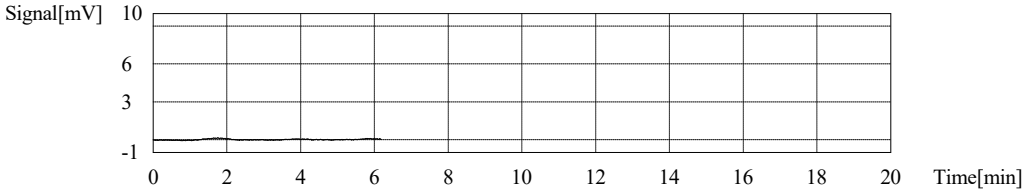
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.05471mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.5755	0.1469mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/8/2024 5:14:33 PM
2	0.06750	0.01723mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/8/2024 5:17:04 PM
3	0.000	0.000mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/8/2024 5:19:32 PM

Mean Area 0.2143
Mean Conc. 0.05471mg/L



Sample

Sample Name: LCS-06082024
Sample ID: 3100607917
Origin: 04.25.2024.cal
Status Completed
Chk. Result

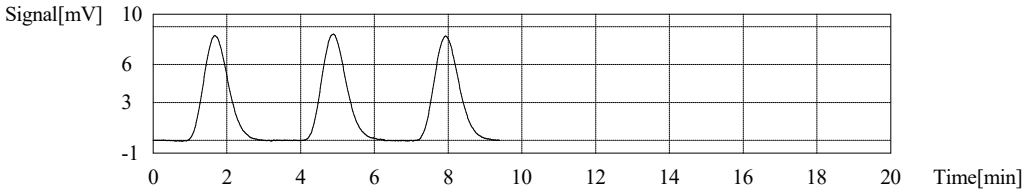
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.895mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	38.81	9.907mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/8/2024 5:25:30 PM
2	38.65	9.866mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/8/2024 5:29:08 PM
3	38.83	9.912mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/8/2024 5:32:51 PM

Mean Area 38.76
Mean Conc. 9.895mg/L



Sample

Sample Name: LCSD-06082024
Sample ID:
Origin: 04.25.2024.cal
Status Completed
Chk. Result

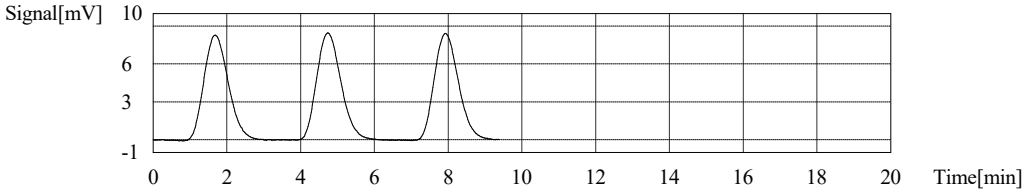
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.850mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	38.43	9.810mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/8/2024 5:37:56 PM
2	38.82	9.910mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/8/2024 5:41:41 PM
3	38.51	9.830mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/8/2024 5:45:23 PM

Mean Area 38.59
Mean Conc. 9.850mg/L



Sample

Sample Name: HS24051535-01
Sample ID:
Origin: 04.25.2024.cal
Status Completed
Chk. Result

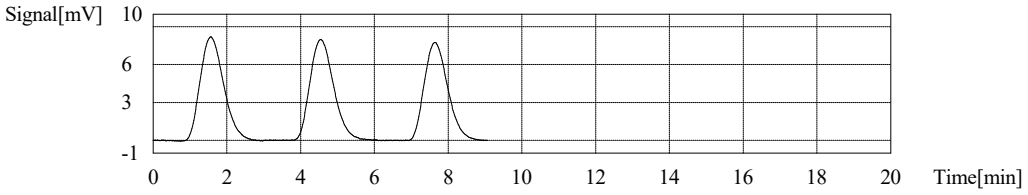
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.023mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	36.68	9.363mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/8/2024 5:50:22 PM
2	35.16	8.975mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/8/2024 5:54:02 PM
3	34.20	8.730mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/8/2024 5:57:36 PM

Mean Area 35.35
Mean Conc. 9.023mg/L



Sample

Sample Name: HS24051535-01MS
Sample ID:
Origin: 04.25.2024.cal
Status Completed
Chk. Result

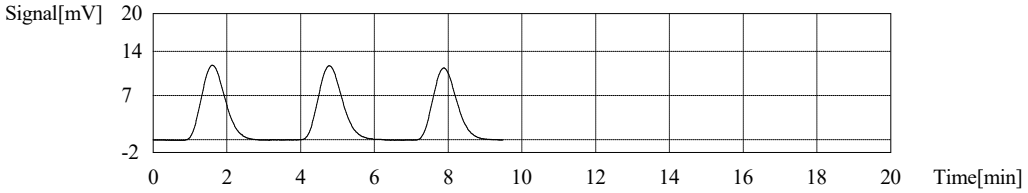
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:13.39mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	53.23	13.59mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/8/2024 6:02:46 PM
2	52.92	13.51mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/8/2024 6:06:28 PM
3	51.26	13.09mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/8/2024 6:10:15 PM

Mean Area 52.47
Mean Conc. 13.39mg/L



Sample

Sample Name: HS24051535-02
Sample ID:
Origin: 04.25.2024.cal
Status Completed
Chk. Result

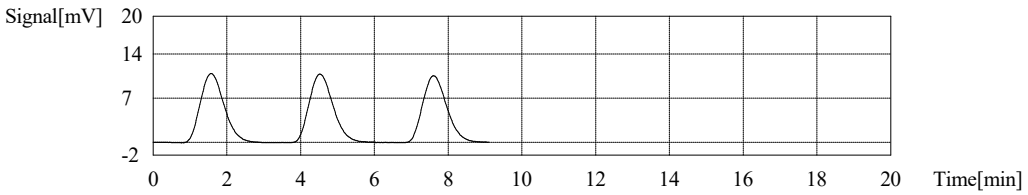
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:12.35mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	48.79	12.45mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/8/2024 6:15:11 PM
2	48.60	12.41mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/8/2024 6:18:51 PM
3	47.78	12.20mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/8/2024 6:22:31 PM

Mean Area 48.39
Mean Conc. 12.35mg/L



Sample

Sample Name: HS24051535-03
Sample ID:
Origin: 04.25.2024.cal
Status Completed
Chk. Result

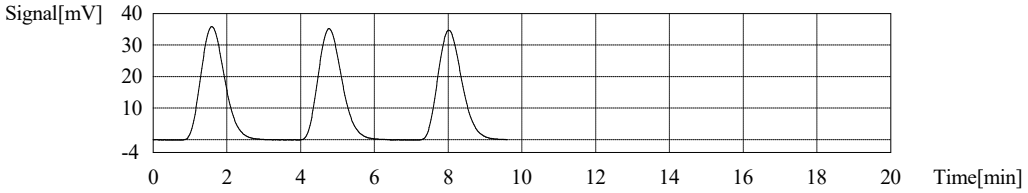
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:40.32mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	160.0	40.84mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/8/2024 6:27:42 PM
2	157.4	40.18mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/8/2024 6:31:32 PM
3	156.4	39.92mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/8/2024 6:35:17 PM

Mean Area 157.9
Mean Conc. 40.32mg/L



Sample

Sample Name: HS24051535-04
Sample ID:
Origin: 04.25.2024.cal
Status Completed
Chk. Result

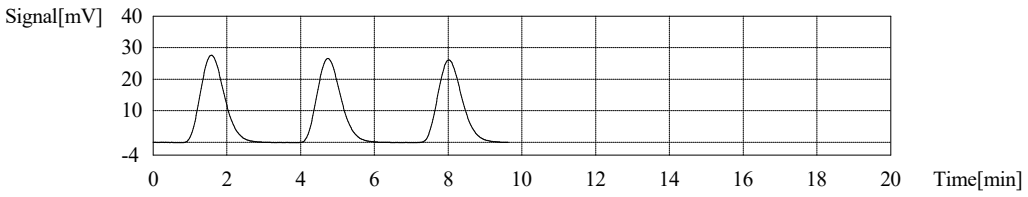
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:30.81mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	124.1	31.68mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/8/2024 6:40:26 PM
2	119.4	30.48mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/8/2024 6:44:17 PM
3	118.6	30.28mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/8/2024 6:48:03 PM

Mean Area 120.7
Mean Conc. 30.81mg/L



Sample

Sample Name: HS24051535-05
Sample ID:
Origin: 04.25.2024.cal
Status Completed
Chk. Result

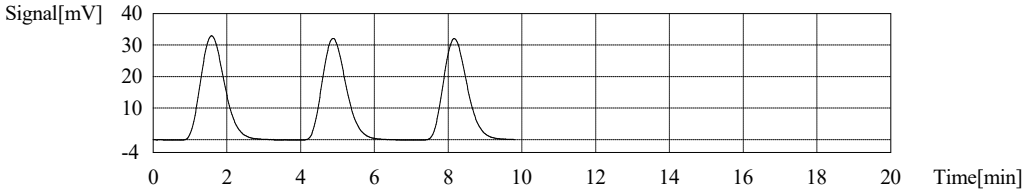
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:36.95mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	147.8	37.73mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/8/2024 6:53:20 PM
2	143.6	36.66mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/8/2024 6:57:12 PM
3	142.8	36.45mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/8/2024 7:01:00 PM

Mean Area 144.7
Mean Conc. 36.95mg/L



Sample

Sample Name: HS24051535-06
Sample ID:
Origin: 04.25.2024.cal
Status Completed
Chk. Result

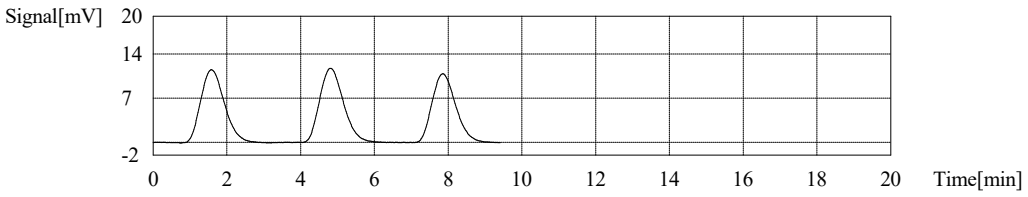
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:13.00mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	51.94	13.26mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/8/2024 7:06:13 PM
2	52.16	13.31mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/8/2024 7:09:50 PM
3	48.73	12.44mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/8/2024 7:13:33 PM

Mean Area 50.94
Mean Conc. 13.00mg/L



Sample

Sample Name: CCV
Sample ID: 325104207
Origin: 04.25.2024.cal
Status Completed
Chk. Result

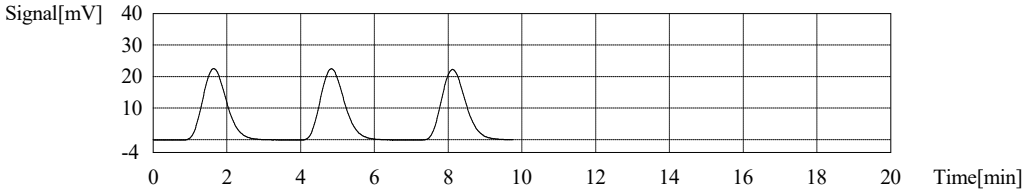
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.81mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	100.9	25.76mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/8/2024 7:28:57 PM
2	101.6	25.94mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/8/2024 7:32:48 PM
3	100.8	25.73mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/8/2024 7:36:38 PM

Mean Area 101.1
Mean Conc. 25.81mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: 04.25.2024.cal
Status Completed
Chk. Result

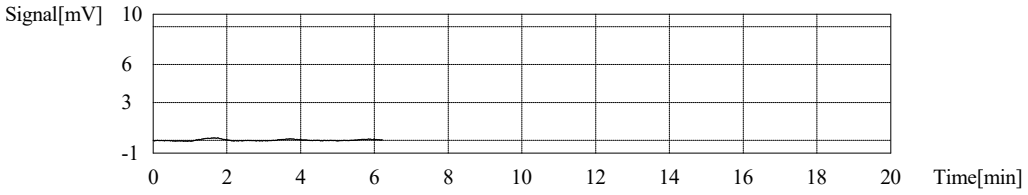
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1032mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.7867	0.2008mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/8/2024 7:40:44 PM
2	0.2459	0.06277mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/8/2024 7:43:26 PM
3	0.1808	0.04615mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/8/2024 7:45:59 PM

Mean Area 0.4045
Mean Conc. 0.1032mg/L



Sample

Sample Name: CCV
Sample ID: 325104207
Origin: 04.25.2024.cal
Status Completed
Chk. Result

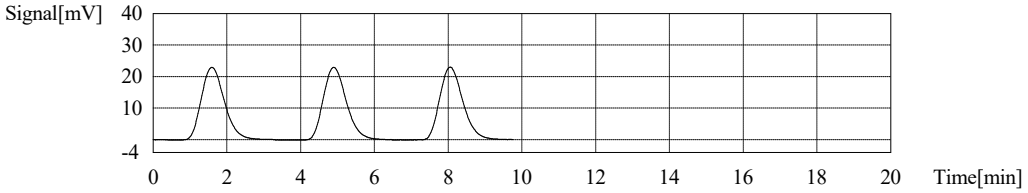
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.41mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	99.54	25.41mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/8/2024 8:59:24 PM
2	99.17	25.32mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/8/2024 9:03:09 PM
3	99.96	25.52mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/8/2024 9:06:59 PM

Mean Area 99.56
Mean Conc. 25.41mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: 04.25.2024.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.09729mg/L

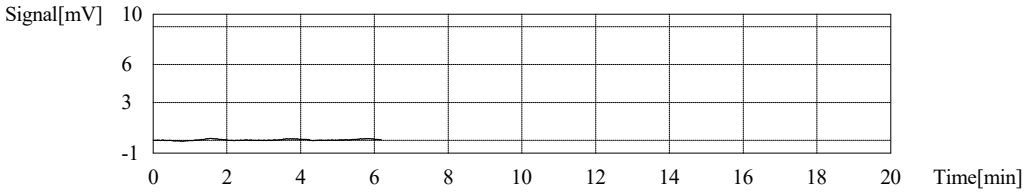
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.6856	0.1750mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/8/2024 9:11:13 PM
2	0.2391	0.06104mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/8/2024 9:13:48 PM
3	0.2187	0.05583mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/8/2024 9:16:19 PM

TOC-Control L Report

Mean Area	0.3811
Mean Conc.	0.09729mg/L



HS24051535 Eurofin Lab Data Package
J174036-1 Std_Tal_L4 Final Report

ALS WO# HS24051535

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Jumoke Lawal
ALS Group USA, Corp
10450 Stancliff Rd.
Suite 210
Houston TX 77099

Generated 06/05/2024

JOB DESCRIPTION

HS24051535

JOB NUMBER

410-174036-1

Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster PA 17601

See page two for job notes and contact information.

myEOL

Eurofins Lancaster Laboratories Environment Testing, LLC

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
06/05/2024

Authorized for release by
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Designee for
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Eurofins Lancaster Laboratories Environment Testing, LLC

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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Qualifiers

GC VOA

Qualifier	Qualifier Description
D	The reported value is from a dilution.
M	Manual integrated compound.
U	Undetected at the Limit of Detection.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
410-174036-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 5/31/2024 10:15 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.7°C.

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: ALS Group USA, Corp
Project/Site: HS24051535

Job ID: 410-174036-1

Client Sample ID: 35AWW19_052324 — Lab Sample ID: 410-174036-1

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Carbon dioxide	250000	M	12000	11000	5600	ug/L	1		RSK-175	Total/NA

Client Sample ID: LHSMW07_052324 — Lab Sample ID: 410-174036-2

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Carbon dioxide	140000		12000	11000	5600	ug/L	1		RSK-175	Total/NA

Client Sample ID: 35AWW20_052324 — Lab Sample ID: 410-174036-3

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Carbon dioxide	800000	D	120000	110000	56000	ug/L	10		RSK-175	Total/NA

Client Sample ID: 35AWW11_052324 — Lab Sample ID: 410-174036-4

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Carbon dioxide	810000	D	120000	110000	56000	ug/L	10		RSK-175	Total/NA

Client Sample ID: 35AWW23_052324 — Lab Sample ID: 410-174036-5

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Carbon dioxide	230000	M	12000	11000	5600	ug/L	1		RSK-175	Total/NA

Client Sample ID: 35AWW06_052324 — Lab Sample ID: 410-174036-6

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Carbon dioxide	59000		12000	11000	5600	ug/L	1		RSK-175	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 35AWW19_052324
Lab Sample ID: 410-174036-1
Date Collected: 05/23/24 07:40
Matrix: Water
Date Received: 05/31/24 10:15

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Carbon dioxide	250000	M	12000	11000	5600	ug/L		06/03/24 11:00	1

Client Sample ID: LHSMW07_052324
Lab Sample ID: 410-174036-2
Date Collected: 05/23/24 08:30
Matrix: Water
Date Received: 05/31/24 10:15

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Carbon dioxide	140000		12000	11000	5600	ug/L		06/03/24 11:07	1

Client Sample ID: 35AWW20_052324
Lab Sample ID: 410-174036-3
Date Collected: 05/23/24 09:20
Matrix: Water
Date Received: 05/31/24 10:15

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Carbon dioxide	800000	D	120000	110000	56000	ug/L		06/04/24 12:21	10

Client Sample ID: 35AWW11_052324
Lab Sample ID: 410-174036-4
Date Collected: 05/23/24 10:10
Matrix: Water
Date Received: 05/31/24 10:15

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Carbon dioxide	810000	D	120000	110000	56000	ug/L		06/04/24 12:29	10

Client Sample ID: 35AWW23_052324
Lab Sample ID: 410-174036-5
Date Collected: 05/23/24 11:00
Matrix: Water
Date Received: 05/31/24 10:15

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Carbon dioxide	230000	M	12000	11000	5600	ug/L		06/03/24 11:31	1

Client Sample ID: 35AWW06_052324
Lab Sample ID: 410-174036-6
Date Collected: 05/23/24 11:50
Matrix: Water
Date Received: 05/31/24 10:15

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Carbon dioxide	59000		12000	11000	5600	ug/L		06/03/24 11:39	1

Default Detection Limits

Client: ALS Group USA, Corp
Project/Site: HS24051535

Job ID: 410-174036-1

Method: RSK-175 - Dissolved Gases (GC)

Prep: RSK-175

Analyte	LOQ	DL	Units
Carbon dioxide	12000	5600	ug/L

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 410-512911/1-A
Matrix: Water
Analysis Batch: 512895

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 512911

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Carbon dioxide	5600	U	12000	11000	5600	ug/L		06/03/24 10:18	1

Lab Sample ID: LCS 410-512911/2-A
Matrix: Water
Analysis Batch: 512895

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 512911

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Carbon dioxide			35800	38800		ug/L		108	80 - 122		

Lab Sample ID: MB 410-513397/1-A
Matrix: Water
Analysis Batch: 513353

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 513397

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Carbon dioxide	5600	U	12000	11000	5600	ug/L		06/04/24 10:27	1

Lab Sample ID: LCS 410-513397/2-A
Matrix: Water
Analysis Batch: 513353

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 513397

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Carbon dioxide			35800	39600		ug/L		111	80 - 122		

Lab Sample ID: LCSD 410-513397/3-A
Matrix: Water
Analysis Batch: 513353

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 513397

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon dioxide			35800	40200		ug/L		112	80 - 122	1	20

GC VOA

Analysis Batch: 512895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-174036-1	35AWW19_052324	Total/NA	Water	RSK-175	512911
410-174036-2	LHSMW07_052324	Total/NA	Water	RSK-175	512911
410-174036-5	35AWW23_052324	Total/NA	Water	RSK-175	512911
410-174036-6	35AWW06_052324	Total/NA	Water	RSK-175	512911
MB 410-512911/1-A	Method Blank	Total/NA	Water	RSK-175	512911
LCS 410-512911/2-A	Lab Control Sample	Total/NA	Water	RSK-175	512911

Prep Batch: 512911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-174036-1	35AWW19_052324	Total/NA	Water	RSK-175	
410-174036-2	LHSMW07_052324	Total/NA	Water	RSK-175	
410-174036-5	35AWW23_052324	Total/NA	Water	RSK-175	
410-174036-6	35AWW06_052324	Total/NA	Water	RSK-175	
MB 410-512911/1-A	Method Blank	Total/NA	Water	RSK-175	
LCS 410-512911/2-A	Lab Control Sample	Total/NA	Water	RSK-175	

Analysis Batch: 513353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-174036-3	35AWW20_052324	Total/NA	Water	RSK-175	513397
410-174036-4	35AWW11_052324	Total/NA	Water	RSK-175	513397
MB 410-513397/1-A	Method Blank	Total/NA	Water	RSK-175	513397
LCS 410-513397/2-A	Lab Control Sample	Total/NA	Water	RSK-175	513397
LCSD 410-513397/3-A	Lab Control Sample Dup	Total/NA	Water	RSK-175	513397

Prep Batch: 513397

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-174036-3	35AWW20_052324	Total/NA	Water	RSK-175	
410-174036-4	35AWW11_052324	Total/NA	Water	RSK-175	
MB 410-513397/1-A	Method Blank	Total/NA	Water	RSK-175	
LCS 410-513397/2-A	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 410-513397/3-A	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Client Sample ID: 35AWW19_052324
Lab Sample ID: 410-174036-1
Date Collected: 05/23/24 07:40
Matrix: Water
Date Received: 05/31/24 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	RSK-175			512911	HQR6	ELLE	06/03/24 09:53
Total/NA	Analysis	RSK-175		1	512895	LXF2	ELLE	06/03/24 11:00

Client Sample ID: LHSMW07_052324
Lab Sample ID: 410-174036-2
Date Collected: 05/23/24 08:30
Matrix: Water
Date Received: 05/31/24 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	RSK-175			512911	HQR6	ELLE	06/03/24 09:53
Total/NA	Analysis	RSK-175		1	512895	LXF2	ELLE	06/03/24 11:07

Client Sample ID: 35AWW20_052324
Lab Sample ID: 410-174036-3
Date Collected: 05/23/24 09:20
Matrix: Water
Date Received: 05/31/24 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	RSK-175			513397	HQR6	ELLE	06/04/24 10:14
Total/NA	Analysis	RSK-175		10	513353	LXF2	ELLE	06/04/24 12:21

Client Sample ID: 35AWW11_052324
Lab Sample ID: 410-174036-4
Date Collected: 05/23/24 10:10
Matrix: Water
Date Received: 05/31/24 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	RSK-175			513397	HQR6	ELLE	06/04/24 10:14
Total/NA	Analysis	RSK-175		10	513353	LXF2	ELLE	06/04/24 12:29

Client Sample ID: 35AWW23_052324
Lab Sample ID: 410-174036-5
Date Collected: 05/23/24 11:00
Matrix: Water
Date Received: 05/31/24 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	RSK-175			512911	HQR6	ELLE	06/03/24 09:53
Total/NA	Analysis	RSK-175		1	512895	LXF2	ELLE	06/03/24 11:31

Client Sample ID: 35AWW06_052324
Lab Sample ID: 410-174036-6
Date Collected: 05/23/24 11:50
Matrix: Water
Date Received: 05/31/24 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	RSK-175			512911	HQR6	ELLE	06/03/24 09:53
Total/NA	Analysis	RSK-175		1	512895	LXF2	ELLE	06/03/24 11:39

Laboratory References:
ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

01337418

Client: ALS Group USA, Corp
Job ID: 410-174036-1
Project/Site: HS24051535

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	11-30-24

Method Summary

01337419

Client: ALS Group USA, Corp
Job ID: 410-174036-1
Project/Site: HS24051535

Method	Method Description	Protocol	Laboratory
RSK-175	Dissolved Gases (GC)	RSK	ELLE
RSK-175	Dissolved Gases Prep	RSK	ELLE

Protocol References:

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev 0, 8/11/94, USEPA Research Lab

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

01337420

Client: ALS Group USA, Corp
Job ID: 410-174036-1
Project/Site: HS24051535

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-174036-1	35AWW19_052324	Water	05/23/24 07:40	05/31/24 10:15
410-174036-2	LHSMW07_052324	Water	05/23/24 08:30	05/31/24 10:15
410-174036-3	35AWW20_052324	Water	05/23/24 09:20	05/31/24 10:15
410-174036-4	35AWW11_052324	Water	05/23/24 10:10	05/31/24 10:15
410-174036-5	35AWW23_052324	Water	05/23/24 11:00	05/31/24 10:15
410-174036-6	35AWW06_052324	Water	05/23/24 11:50	05/31/24 10:15

GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-174036-1

SDG No.:

Instrument ID: 19506-B Analysis Batch Number: 499750

Lab Sample ID: IC 410-499750/13 Client Sample ID:

Date Analyzed: 04/29/24 16:37 Lab File ID: 312024_4_29BB.0013.d GC Column: 19809 ID: 1(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon dioxide	1.98	Baseline Smoothing	LXF2	04/30/24 04:03

GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-174036-1

SDG No.:

Instrument ID: 19506-B Analysis Batch Number: 512895

Lab Sample ID: 410-174036-1 Client Sample ID: 35AWW19_052324

Date Analyzed: 06/03/24 11:00 Lab File ID: 312024_6_3BB.0007.d GC Column: 19809 ID: 1(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon dioxide	1.98	Assign Peak	LXF2	06/04/24 04:03

Lab Sample ID: 410-174036-5 Client Sample ID: 35AWW23_052324

Date Analyzed: 06/03/24 11:31 Lab File ID: 312024_6_3BB.0011.d GC Column: 19809 ID: 1(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon dioxide	1.99	Assign Peak	LXF2	06/04/24 04:03

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-174036-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
EPH_CO2ICV_00003	04/01/25	04/01/24	DI Water, Lot In House	1 mL	EPH_CO2XX_00003	0.0018 g	Carbon dioxide	547000 ppb
.EPH_CO2XX_00003	04/01/25	Air Products, Lot A214157			(Purchased Reagent)		Carbon dioxide	30.3889 %
EPH_CO2MS_00006	07/18/24	07/18/23	DI Water, Lot In House	1 g	EPH_CO2CRV_00003	0.0018 g	Carbon dioxide	1791000 ppb
.EPH_CO2CRV_00003	07/18/24	Praxair, Lot 4-11-18			(Purchased Reagent)		Carbon dioxide	99.5 %

Method RSK-175 CO2 DOD

Dissolved Gases (GC) by Method RSK_175_CO2 DOD

FORM III
GC VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-174036-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 312024_6_3BB.0006.d

Lab ID: LCS 410-512911/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Carbon dioxide	35800	38800	108	80-122	

Column to be used to flag recovery and RPD values

FORM III RSK-175

FORM III
GC VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-174036-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 312024_6_4BB.0006.d

Lab ID: LCS 410-513397/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Carbon dioxide	35800	39600	111	80-122	

Column to be used to flag recovery and RPD values

FORM III RSK-175

FORM III
GC VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-174036-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 312024_6_4BB.0007.d

Lab ID: LCSD 410-513397/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Carbon dioxide	35800	40200	112	1	20	80-122	

Column to be used to flag recovery and RPD values

FORM III RSK-175

FORM IV
GC VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-174036-1

SDG No.:

Lab File ID: 312024_6_3BB.0005.d Lab Sample ID: MB 410-512911/1-A

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: 19506-B Date Analyzed: 06/03/2024 10:18

GC Column: 19809 ID: 1(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-512911/2-A	312024_6_3BB.0006.d	06/03/2024 10:26
35AWW19_052324	410-174036-1	312024_6_3BB.0007.d	06/03/2024 11:00
LHSMW07_052324	410-174036-2	312024_6_3BB.0008.d	06/03/2024 11:07
35AWW23_052324	410-174036-5	312024_6_3BB.0011.d	06/03/2024 11:31
35AWW06_052324	410-174036-6	312024_6_3BB.0012.d	06/03/2024 11:39

FORM IV
GC VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-174036-1

SDG No.:

Lab File ID: 312024_6_4BB.0005.d Lab Sample ID: MB 410-513397/1-A

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: 19506-B Date Analyzed: 06/04/2024 10:27

GC Column: 19809 ID: 1(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-513397/2-A	312024_6_4BB.0006.d	06/04/2024 10:34
	LCSD 410-513397/3-A	312024_6_4BB.0007.d	06/04/2024 10:42
35AWW20_052324	410-174036-3	312024_6_4BB.0017.d	06/04/2024 12:21
35AWW11_052324	410-174036-4	312024_6_4BB.0018.d	06/04/2024 12:29

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-174036-1

SDG No.:

Client Sample ID: 35AWW19_052324 Lab Sample ID: 410-174036-1

Matrix: Water Lab File ID: 312024_6_3BB.0007.d

Analysis Method: RSK-175 Date Collected: 05/23/2024 07:40

Sample wt/vol: 5(mL) Date Analyzed: 06/03/2024 11:00

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: 19809 ID: 1(mm)

Purge Volume: Heated Purge: (Y/N) N pH: 6.0

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 512895 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
124-38-9	Carbon dioxide	250000	M	12000	11000	5600

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20240603-115596.b\312024_6_3BB.0007.d				
Lims ID:	410-174036-A-1-A				
Client ID:	35AWW19_052324				
Sample Type:	Client				
Inject. Date:	03-Jun-2024 11:00:00	ALS Bottle#:	0	Worklist Smp#:	7
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0115596-007				
Operator ID:		Instrument ID:	19506-B		
Method:	\\chromfs\Lancaster\ChromData\19506-B\20240603-115596.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	04-Jun-2024 04:04:42	Calib Date:	29-Apr-2024 16:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d				
Column 1 :	ShinCarbon ST Microplacked GC (1.00 mm)		Det: 0FIDA		
Process Host:	CTX1618				
First Level Reviewer: LXF2		Date:	04-Jun-2024 04:03:27		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
1 Carbon dioxide	1.983	2.037	-0.054	778896612H	248222	Ma

QC Flag Legend

Processing Flags

H - Response Measured by Height

Review Flags

M - Manually Integrated

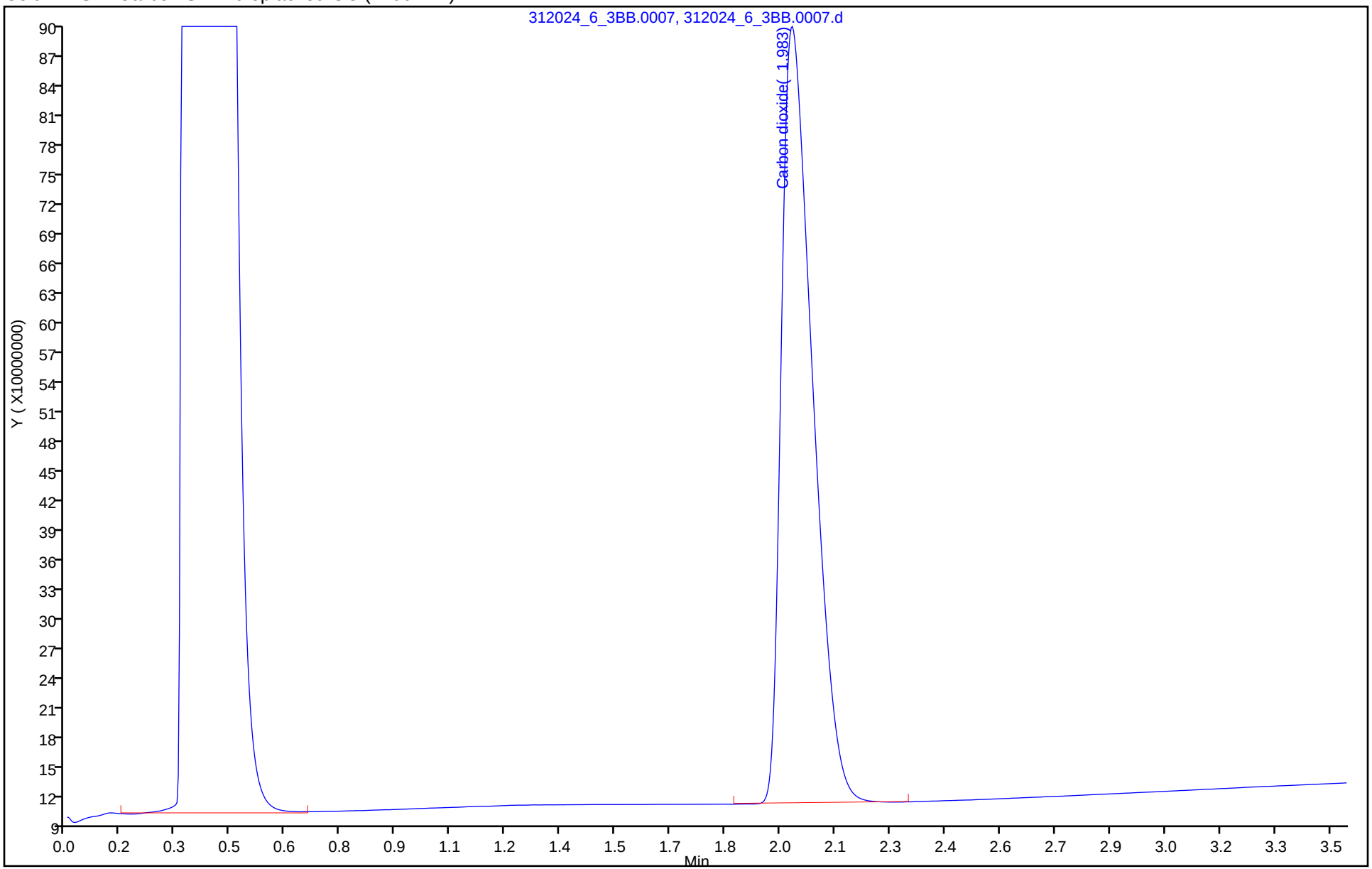
a - User Assigned ID

Report Date: 04-Jun-2024 04:04:43 Chrom Revision: 2.3 20-May-2024 22:00:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20240603-115596.b\312024_6_3BB.0007.d				
Injection Date:	03-Jun-2024 11:00:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	410-174036-A-1-A	Lab Sample ID:	410-174036-1	Worklist Smp#:	7
Client ID:	35AWW19_052324				
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: ShinCarbon ST Microplacked GC (1.00 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

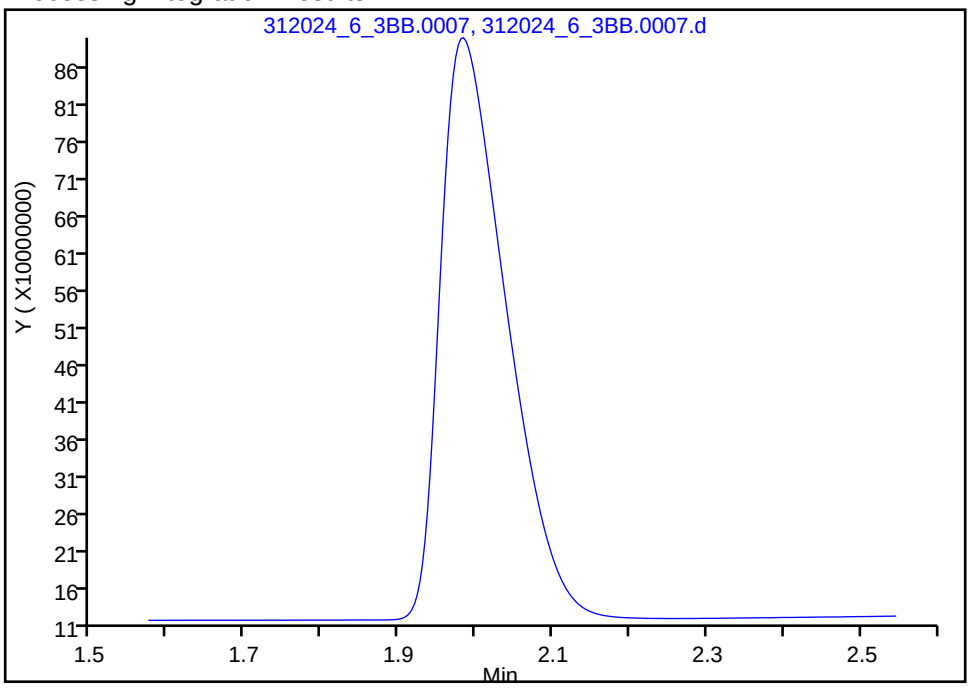
Data File:	\\chromfs\Lancaster\ChromData\19506-B\20240603-115596.b\312024_6_3BB.0007.d				
Injection Date:	03-Jun-2024 11:00:00	Instrument ID:	19506-B		
Lims ID:	410-174036-A-1-A	Lab Sample ID:	410-174036-1		
Client ID:	35AWW19_052324				
Operator ID:		ALS Bottle#:	0	Worklist Smp#:	7
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		
Column:	ShinCarbon ST Microplacked GC (1.00 mm)	Detector	0FIDA		

1 Carbon dioxide, CAS: 124-38-9

Signal: 1

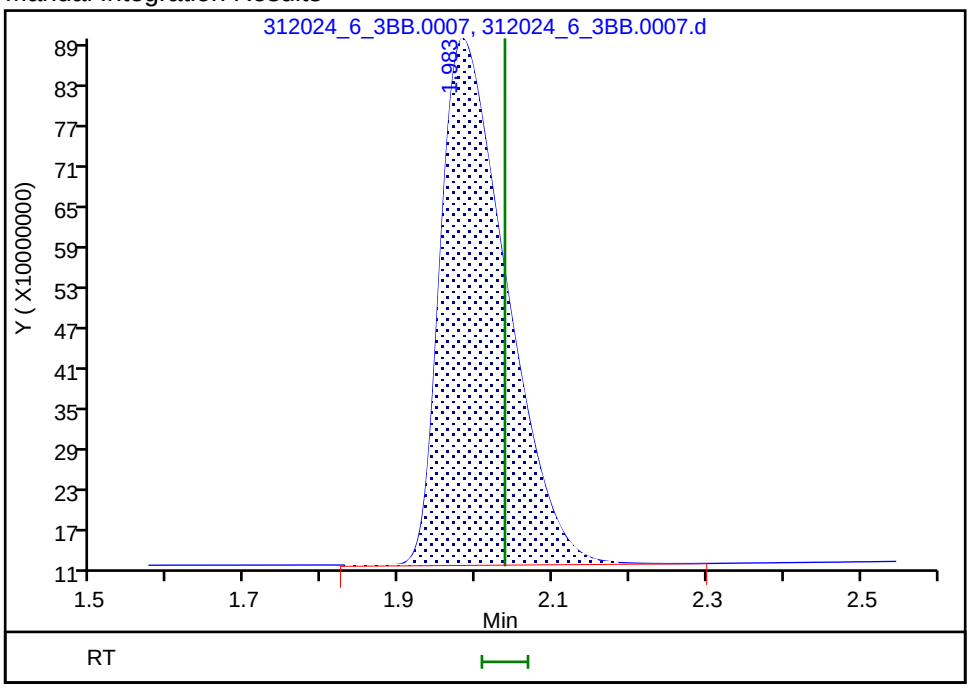
Not Detected
Expected RT: 2.04

Processing Integration Results



Manual Integration Results

RT: 1.98
Height: 778896612
Amount: 248222
Amount Units: ug/l



Reviewer: LXF2, 04-Jun-2024 04:03:26 -04:00:00 (UTC)
Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Assign Peak

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-174036-1

SDG No.:

Client Sample ID: LHSMW07_052324 Lab Sample ID: 410-174036-2

Matrix: Water Lab File ID: 312024_6_3BB.0008.d

Analysis Method: RSK-175 Date Collected: 05/23/2024 08:30

Sample wt/vol: 5(mL) Date Analyzed: 06/03/2024 11:07

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: 19809 ID: 1(mm)

Purge Volume: Heated Purge: (Y/N) N pH: 7.0

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 512895 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
124-38-9	Carbon dioxide	140000		12000	11000	5600

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20240603-115596.b\312024_6_3BB.0008.d				
Lims ID:	410-174036-A-2-A				
Client ID:	LHSMW07_052324				
Sample Type:	Client				
Inject. Date:	03-Jun-2024 11:07:00	ALS Bottle#:	0	Worklist Smp#:	8
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0115596-008				
Operator ID:		Instrument ID:	19506-B		
Method:	\\chromfs\Lancaster\ChromData\19506-B\20240603-115596.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	04-Jun-2024 04:04:42	Calib Date:	29-Apr-2024 16:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d				
Column 1 :	ShinCarbon ST Microplacked GC (1.00 mm)		Det: 0FIDA		
Process Host:	CTX1618				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.014	2.037	-0.023	423774687	135050	H

Report Date: 04-Jun-2024 04:04:43 Chrom Revision: 2.3 20-May-2024 22:00:34

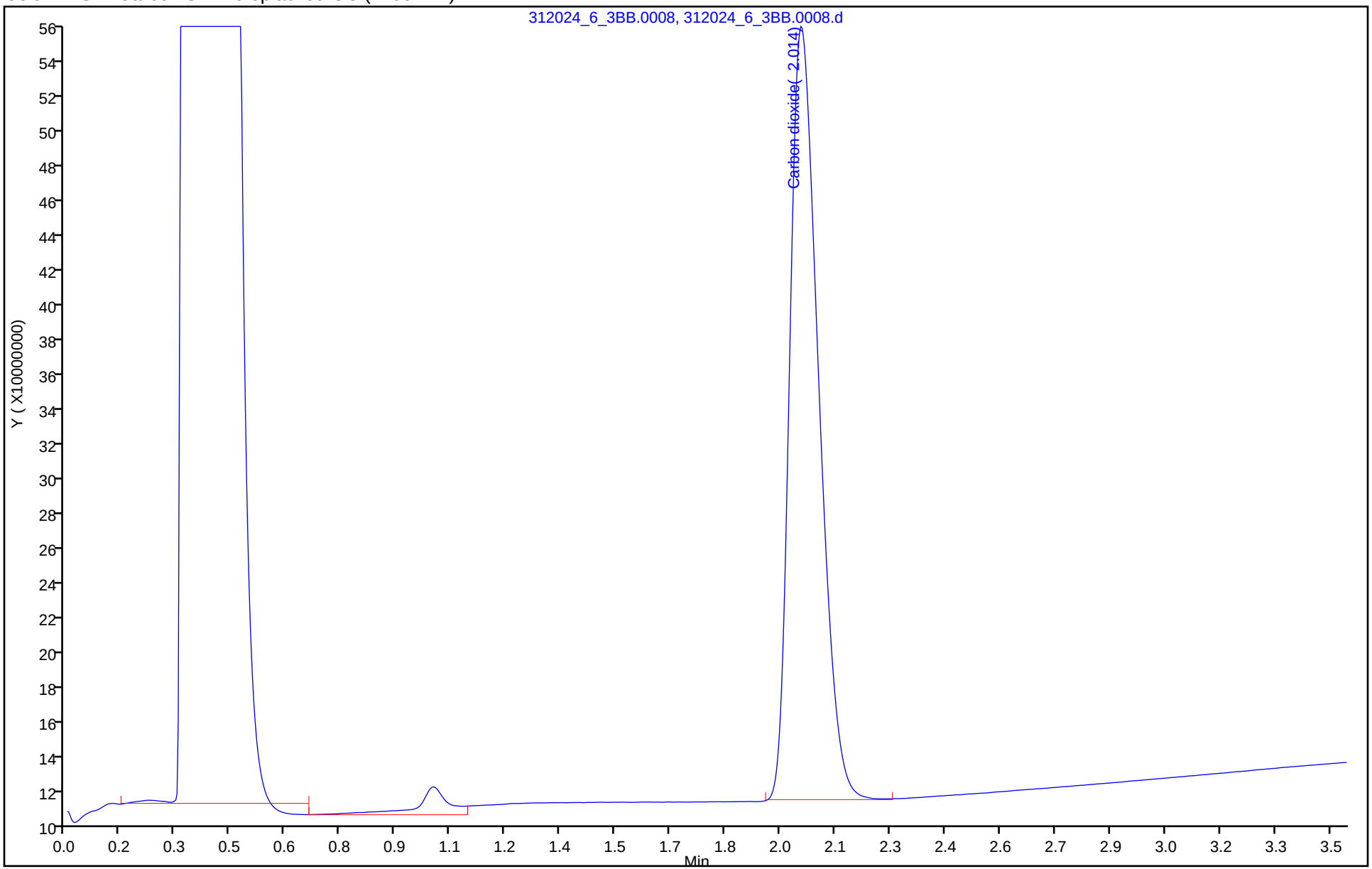
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Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240603-115596.b\312024_6_3BB.0008.d

Injection Date:	03-Jun-2024 11:07:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	410-174036-A-2-A	Lab Sample ID:	410-174036-2	Worklist Smp#:	8
Client ID:	LHSMW07_052324				
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: ShinCarbon ST Microplacked GC (1.00 mm)



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-174036-1

SDG No.:

Client Sample ID: 35AWW20_052324 Lab Sample ID: 410-174036-3

Matrix: Water Lab File ID: 312024_6_4BB.0017.d

Analysis Method: RSK-175 Date Collected: 05/23/2024 09:20

Sample wt/vol: 5(mL) Date Analyzed: 06/04/2024 12:21

Soil Aliquot Vol: Dilution Factor: 10

Soil Extract Vol.: GC Column: 19809 ID: 1(mm)

Purge Volume: Heated Purge: (Y/N) N pH: 6.0

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 513353 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
124-38-9	Carbon dioxide	800000	D	120000	110000	56000

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20240604-115704.b\312024_6_4BB.0017.d				
Lims ID:	410-174036-B-3-A DL				
Client ID:	35AWW20_052324				
Sample Type:	Client				
Inject. Date:	04-Jun-2024 12:21:00	ALS Bottle#:	0	Worklist Smp#:	17
Purge Vol:	1.000 mL	Dil. Factor:	10.0000		
Sample Info:					
Misc. Info.:	410-0115704-017				
Operator ID:		Instrument ID:	19506-B		
Method:	\\chromfs\Lancaster\ChromData\19506-B\20240604-115704.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	05-Jun-2024 04:01:24	Calib Date:	29-Apr-2024 16:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d				
Column 1 :	ShinCarbon ST Microplacked GC (1.00 mm)		Det: 0FIDA		
Process Host:	CTX1622				

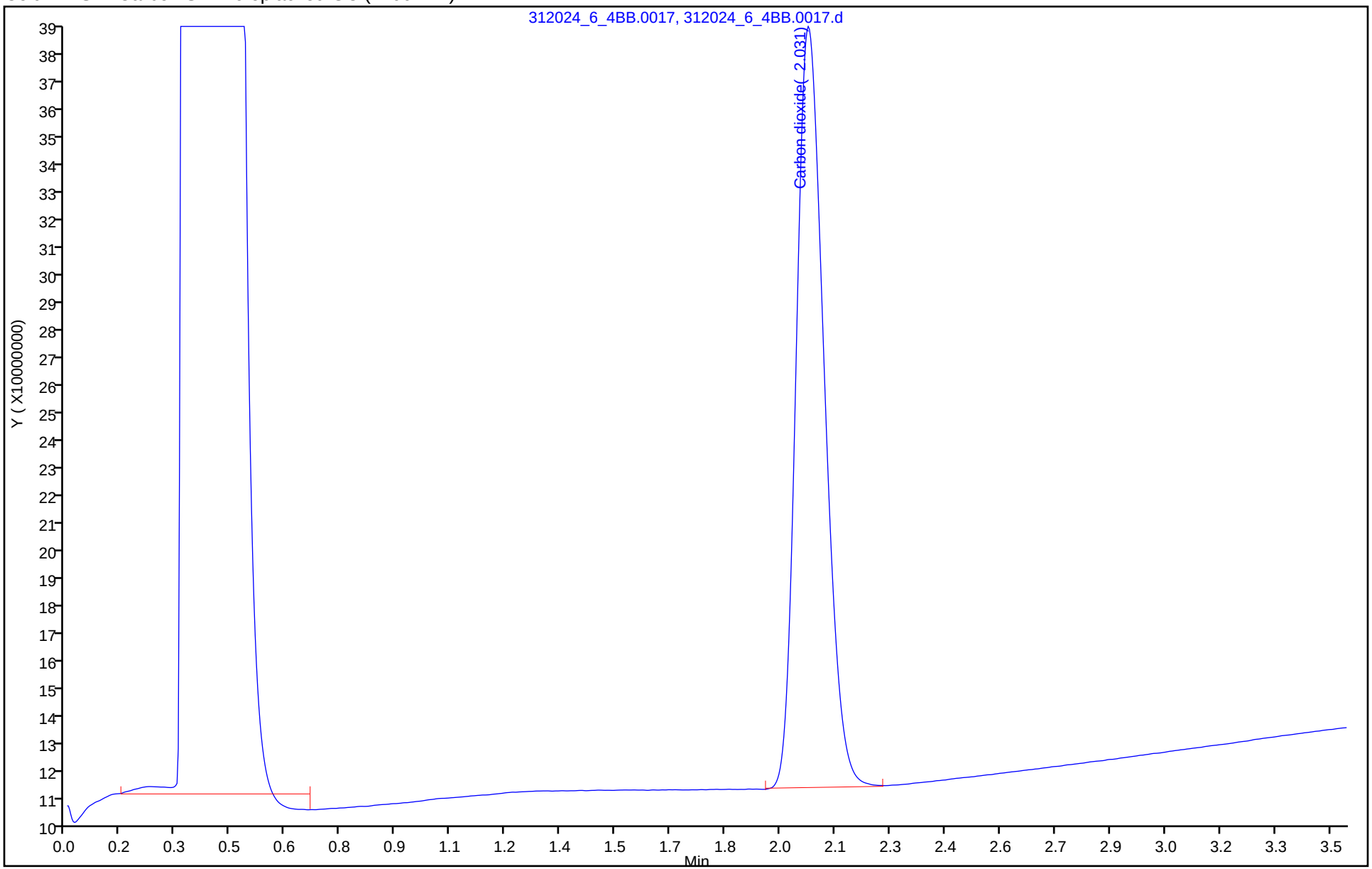
Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.031	2.042	-0.011	250780837	79920	H

Report Date: 05-Jun-2024 04:01:24 Chrom Revision: 2.3 20-May-2024 22:00:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20240604-115704.b\312024_6_4BB.0017.d				
Injection Date:	04-Jun-2024 12:21:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	410-174036-B-3-A DL	Lab Sample ID:	410-174036-3	Worklist Smp#:	17
Client ID:	35AWW20_052324				
Purge Vol:	1.000 mL	Dil. Factor:	10.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: ShinCarbon ST Microplacked GC (1.00 mm)



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-174036-1

SDG No.:

Client Sample ID: 35AWW11_052324 Lab Sample ID: 410-174036-4

Matrix: Water Lab File ID: 312024_6_4BB.0018.d

Analysis Method: RSK-175 Date Collected: 05/23/2024 10:10

Sample wt/vol: 5(mL) Date Analyzed: 06/04/2024 12:29

Soil Aliquot Vol: Dilution Factor: 10

Soil Extract Vol.: GC Column: 19809 ID: 1(mm)

Purge Volume: Heated Purge: (Y/N) N pH: 6.0

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 513353 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
124-38-9	Carbon dioxide	810000	D	120000	110000	56000

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20240604-115704.b\312024_6_4BB.0018.d				
Lims ID:	410-174036-B-4-A DL				
Client ID:	35AWW11_052324				
Sample Type:	Client				
Inject. Date:	04-Jun-2024 12:29:00	ALS Bottle#:	0	Worklist Smp#:	18
Purge Vol:	1.000 mL	Dil. Factor:	10.0000		
Sample Info:					
Misc. Info.:	410-0115704-018				
Operator ID:		Instrument ID:	19506-B		
Method:	\\chromfs\Lancaster\ChromData\19506-B\20240604-115704.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	05-Jun-2024 04:01:24	Calib Date:	29-Apr-2024 16:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d				
Column 1 :	ShinCarbon ST Microplacked GC (1.00 mm)		Det: 0FIDA		
Process Host:	CTX1622				

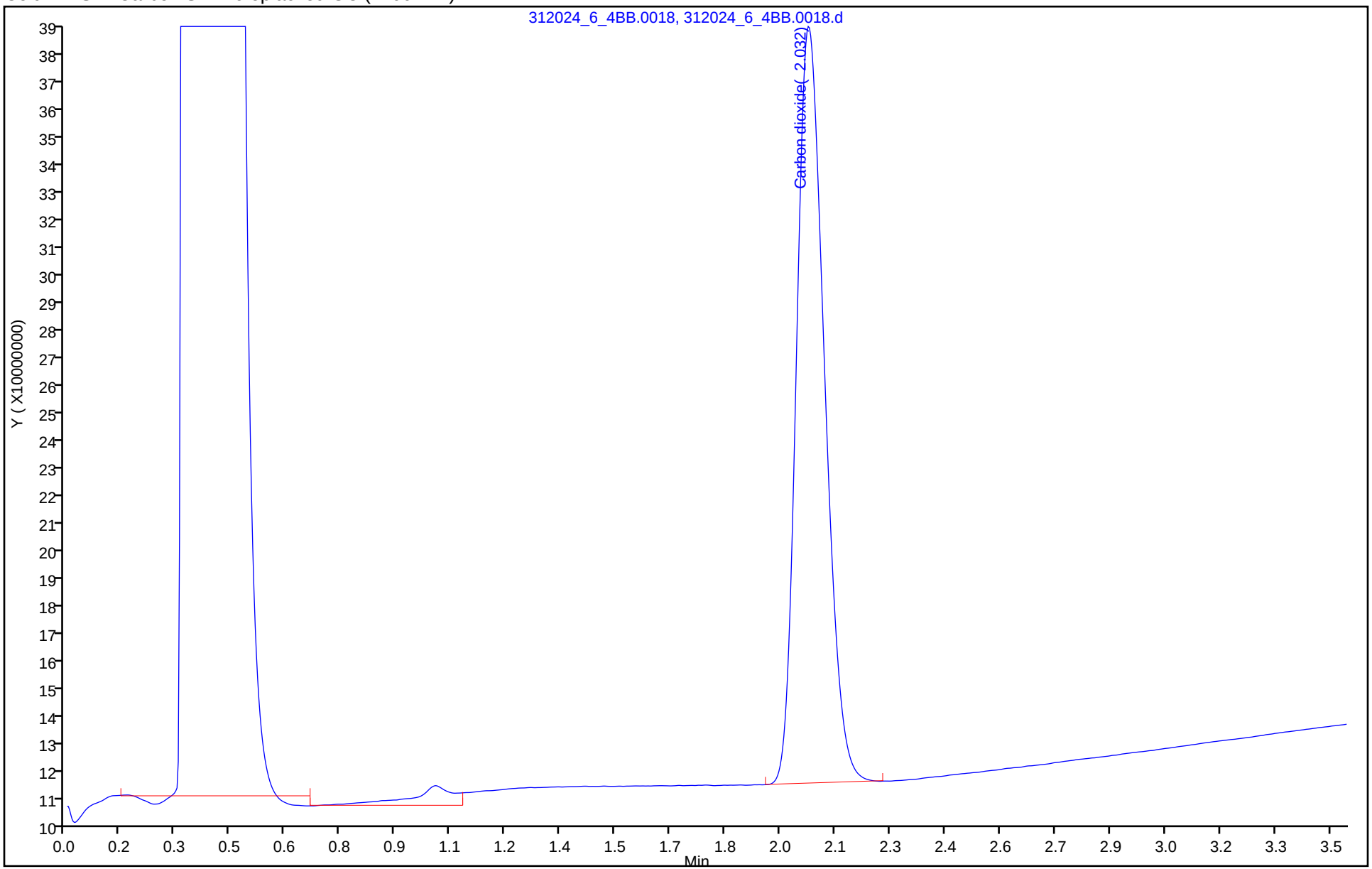
Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.032	2.042	-0.010	254928430	81242	H

Report Date: 05-Jun-2024 04:01:25 Chrom Revision: 2.3 20-May-2024 22:00:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20240604-115704.b\312024_6_4BB.0018.d				
Injection Date:	04-Jun-2024 12:29:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	410-174036-B-4-A DL	Lab Sample ID:	410-174036-4	Worklist Smp#:	18
Client ID:	35AWW11_052324				
Purge Vol:	1.000 mL	Dil. Factor:	10.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: ShinCarbon ST Microplacked GC (1.00 mm)



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-174036-1

SDG No.:

Client Sample ID: 35AWW23_052324 Lab Sample ID: 410-174036-5

Matrix: Water Lab File ID: 312024_6_3BB.0011.d

Analysis Method: RSK-175 Date Collected: 05/23/2024 11:00

Sample wt/vol: 5(mL) Date Analyzed: 06/03/2024 11:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: 19809 ID: 1(mm)

Purge Volume: Heated Purge: (Y/N) N pH: 7.0

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 512895 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
124-38-9	Carbon dioxide	230000	M	12000	11000	5600

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20240603-115596.b\312024_6_3BB.0011.d				
Lims ID:	410-174036-A-5-A				
Client ID:	35AWW23_052324				
Sample Type:	Client				
Inject. Date:	03-Jun-2024 11:31:00	ALS Bottle#:	0	Worklist Smp#:	11
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0115596-011				
Operator ID:		Instrument ID:	19506-B		
Method:	\\chromfs\Lancaster\ChromData\19506-B\20240603-115596.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	04-Jun-2024 04:04:42	Calib Date:	29-Apr-2024 16:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d				
Column 1 :	ShinCarbon ST Microplacked GC (1.00 mm)		Det: 0FIDA		
Process Host:	CTX1618				
First Level Reviewer: LXF2		Date:	04-Jun-2024 04:03:47		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
1 Carbon dioxide	1.987	2.037	-0.050	727425321H	231819	Ma

QC Flag Legend

Processing Flags

H - Response Measured by Height

Review Flags

M - Manually Integrated

a - User Assigned ID

Report Date: 04-Jun-2024 04:04:44 Chrom Revision: 2.3 20-May-2024 22:00:34

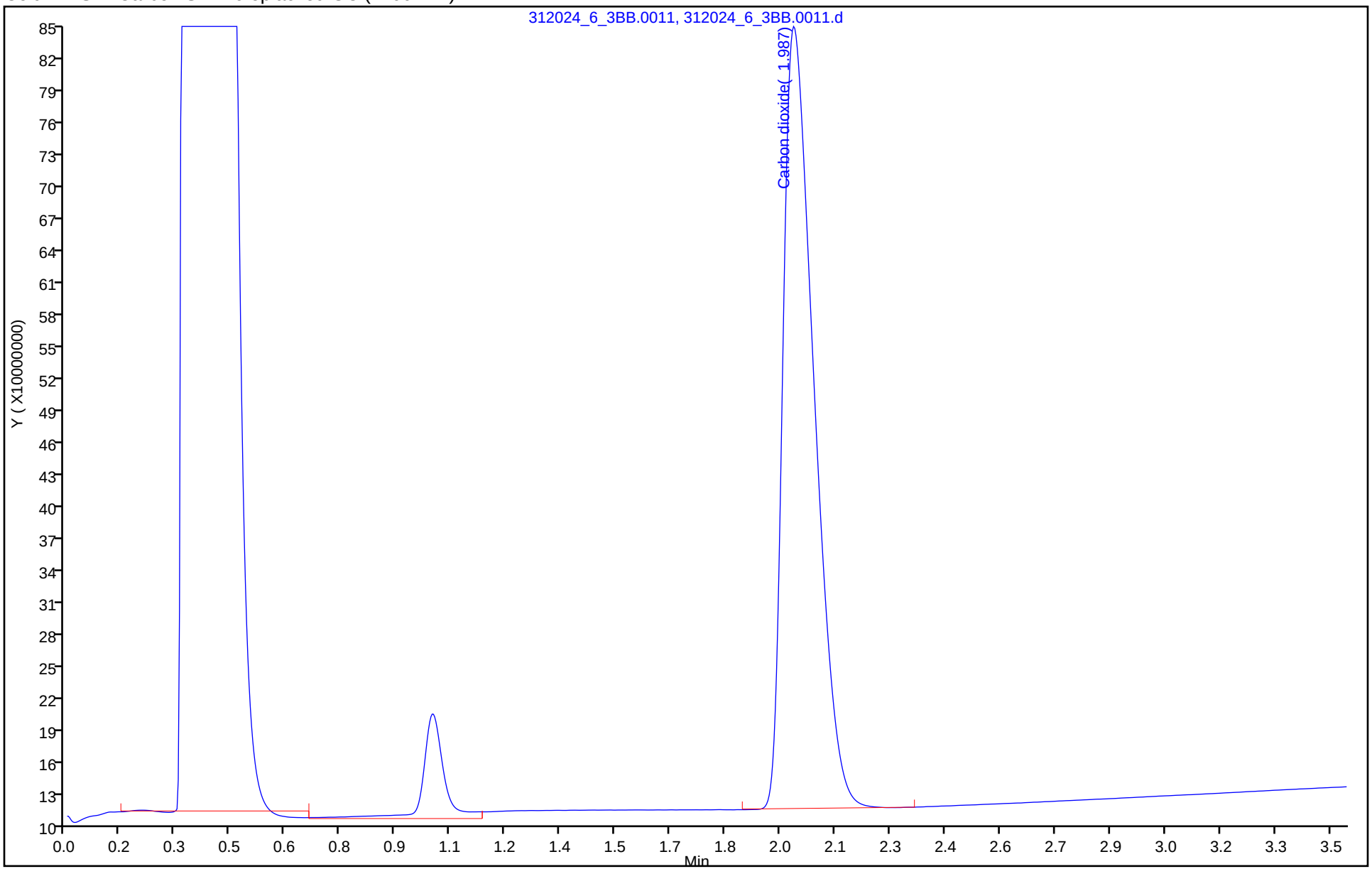
01337445

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240603-115596.b\312024_6_3BB.0011.d

Injection Date:	03-Jun-2024 11:31:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	410-174036-A-5-A	Lab Sample ID:	410-174036-5	Worklist Smp#:	11
Client ID:	35AWW23_052324				
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: ShinCarbon ST Microplacked GC (1.00 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

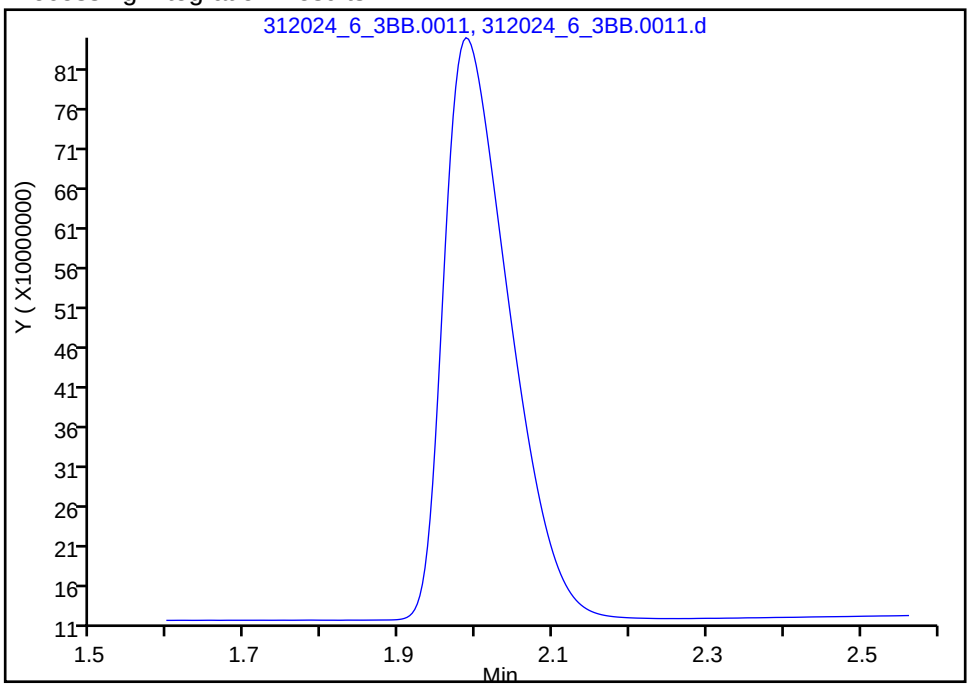
Data File:	\\chromfs\Lancaster\ChromData\19506-B\20240603-115596.b\312024_6_3BB.0011.d		
Injection Date:	03-Jun-2024 11:31:00	Instrument ID:	19506-B
Lims ID:	410-174036-A-5-A	Lab Sample ID:	410-174036-5
Client ID:	35AWW23_052324		
Operator ID:		ALS Bottle#:	0 Worklist Smp#: 11
Purge Vol:	1.000 mL	Dil. Factor:	1.0000
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2
Column:	ShinCarbon ST Microplacked GC (1.00 mm)	Detector	0FIDA

1 Carbon dioxide, CAS: 124-38-9

Signal: 1

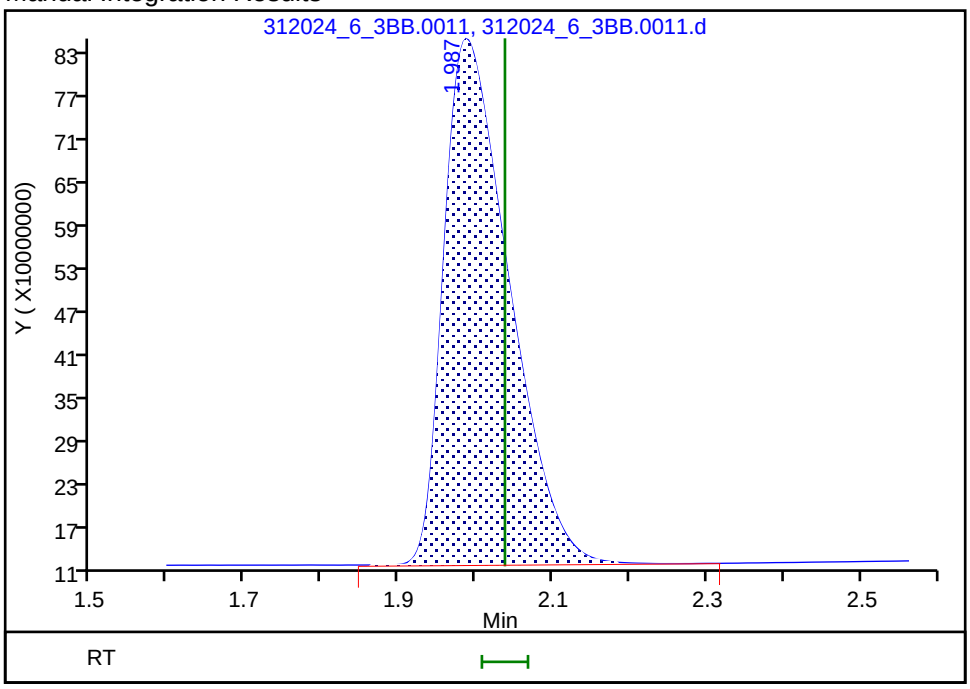
Not Detected
Expected RT: 2.04

Processing Integration Results



Manual Integration Results

RT: 1.99
Height: 727425321
Amount: 231819
Amount Units: ug/l



Reviewer: LXF2, 04-Jun-2024 04:03:45 -04:00:00 (UTC)
Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Assign Peak

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-174036-1

SDG No.:

Client Sample ID: 35AWW06_052324 Lab Sample ID: 410-174036-6

Matrix: Water Lab File ID: 312024_6_3BB.0012.d

Analysis Method: RSK-175 Date Collected: 05/23/2024 11:50

Sample wt/vol: 5(mL) Date Analyzed: 06/03/2024 11:39

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: 19809 ID: 1(mm)

Purge Volume: Heated Purge: (Y/N) N pH: 7.0

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 512895 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
124-38-9	Carbon dioxide	59000		12000	11000	5600

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20240603-115596.b\312024_6_3BB.0012.d				
Lims ID:	410-174036-A-6-A				
Client ID:	35AWW06_052324				
Sample Type:	Client				
Inject. Date:	03-Jun-2024 11:39:00	ALS Bottle#:	0	Worklist Smp#:	12
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0115596-012				
Operator ID:		Instrument ID:	19506-B		
Method:	\\chromfs\Lancaster\ChromData\19506-B\20240603-115596.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	04-Jun-2024 04:04:42	Calib Date:	29-Apr-2024 16:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d				
Column 1 :	ShinCarbon ST Microplacked GC (1.00 mm)		Det: 0FIDA		
Process Host:	CTX1618				

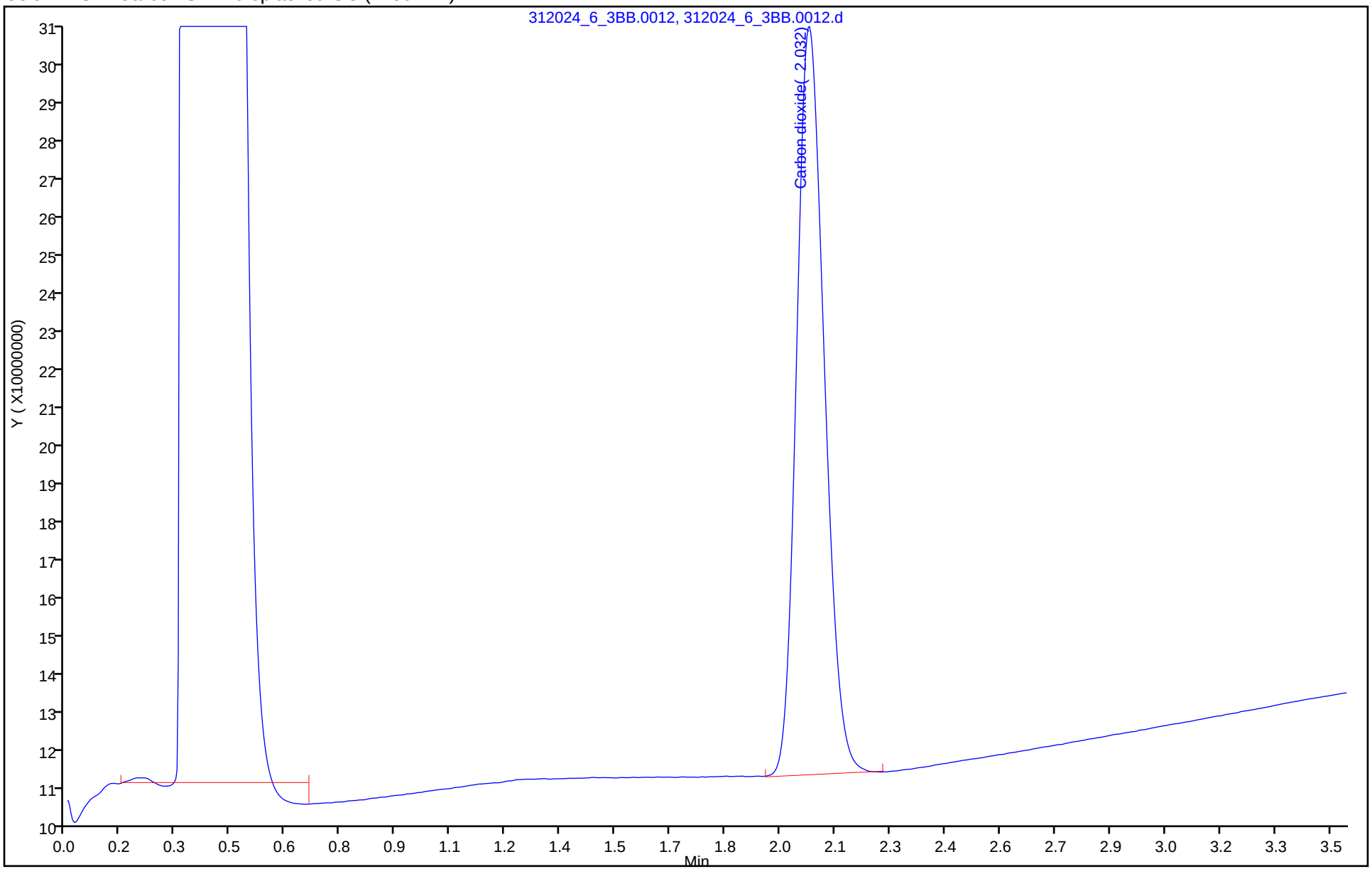
Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.032	2.037	-0.005	184150557	58686	H

Report Date: 04-Jun-2024 04:04:45 Chrom Revision: 2.3 20-May-2024 22:00:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20240603-115596.b\312024_6_3BB.0012.d				
Injection Date:	03-Jun-2024 11:39:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	410-174036-A-6-A	Lab Sample ID:	410-174036-6	Worklist Smp#:	12
Client ID:	35AWW06_052324				
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: ShinCarbon ST Microplacked GC (1.00 mm)



Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-174036-1 Analy Batch No.: 499750

SDG No.:

Instrument ID: 19506-B GC Column: 19809 ID: 1(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2024 15:57 Calibration End Date: 04/29/2024 16:37 Calibration ID: 61130

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-499750/8	312024_4_29BB.0008.d
Level 2	IC 410-499750/9	312024_4_29BB.0009.d
Level 3	ICRT 410-499750/10	312024_4_29BB.0010.d
Level 4	IC 410-499750/11	312024_4_29BB.0011.d
Level 5	IC 410-499750/12	312024_4_29BB.0012.d
Level 6	IC 410-499750/13	312024_4_29BB.0013.d

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
Carbon dioxide	2.055	2.051	2.048	2.037	2.020	1.980					2.017 - 2.077	2.032

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-174036-1 Analy Batch No.: 499750

SDG No.:

Instrument ID: 19506-B GC Column: 19809 ID: 1(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2024 15:57 Calibration End Date: 04/29/2024 16:37 Calibration ID: 61130

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-499750/8	312024_4_29BB.0008.d
Level 2	IC 410-499750/9	312024_4_29BB.0009.d
Level 3	ICRT 410-499750/10	312024_4_29BB.0010.d
Level 4	IC 410-499750/11	312024_4_29BB.0011.d
Level 5	IC 410-499750/12	312024_4_29BB.0012.d
Level 6	IC 410-499750/13	312024_4_29BB.0013.d

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
Carbon dioxide	3273.6 2914.8	3533.4 2752.9	3350.9	3001.7	Ave		3137.90247				9.4		20.0			

Note: The M1 coefficient is the same as Ave CF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-174036-1 Analy Batch No.: 499750

SDG No.:

Instrument ID: 19506-B GC Column: 19809 ID: 1(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/29/2024 15:57 Calibration End Date: 04/29/2024 16:37 Calibration ID: 61130

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-499750/8	312024_4_29BB.0008.d
Level 2	IC 410-499750/9	312024_4_29BB.0009.d
Level 3	ICRT 410-499750/10	312024_4_29BB.0010.d
Level 4	IC 410-499750/11	312024_4_29BB.0011.d
Level 5	IC 410-499750/12	312024_4_29BB.0012.d
Level 6	IC 410-499750/13	312024_4_29BB.0013.d

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Carbon dioxide	Ave	35178219 986082668	75940683	120029586	268806379	522045301	10746 358200	21492	35820	89550	179100

Curve Type Legend:
Ave = Average by Height

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0008.d
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 29-Apr-2024 15:57:00 ALS Bottle#: 0 Worklist Smp#: 8
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 410-0112494-008
Operator ID: Instrument ID: 19506-B
Sublist: chrom-RSK_CO2_19506B*sub1

Method: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\RSK_CO2_19506B.m
Limit Group: GCV - RSK175 CO2
Last Update: 30-Apr-2024 04:04:35 Calib Date: 29-Apr-2024 16:37:00
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d

Column 1 : ShinCarbon ST Microplacked GC (1.00 mm) Det: 0FIDA
Process Host: CTX1646

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.055	2.047	0.008	35178219H	10746	11211	

Reagents:

EPH_CO2MS_00006 Amount Added: 30.00 Units: uL

Report Date: 30-Apr-2024 04:04:35 Chrom Revision: 2.3 26-Apr-2024 12:18:52

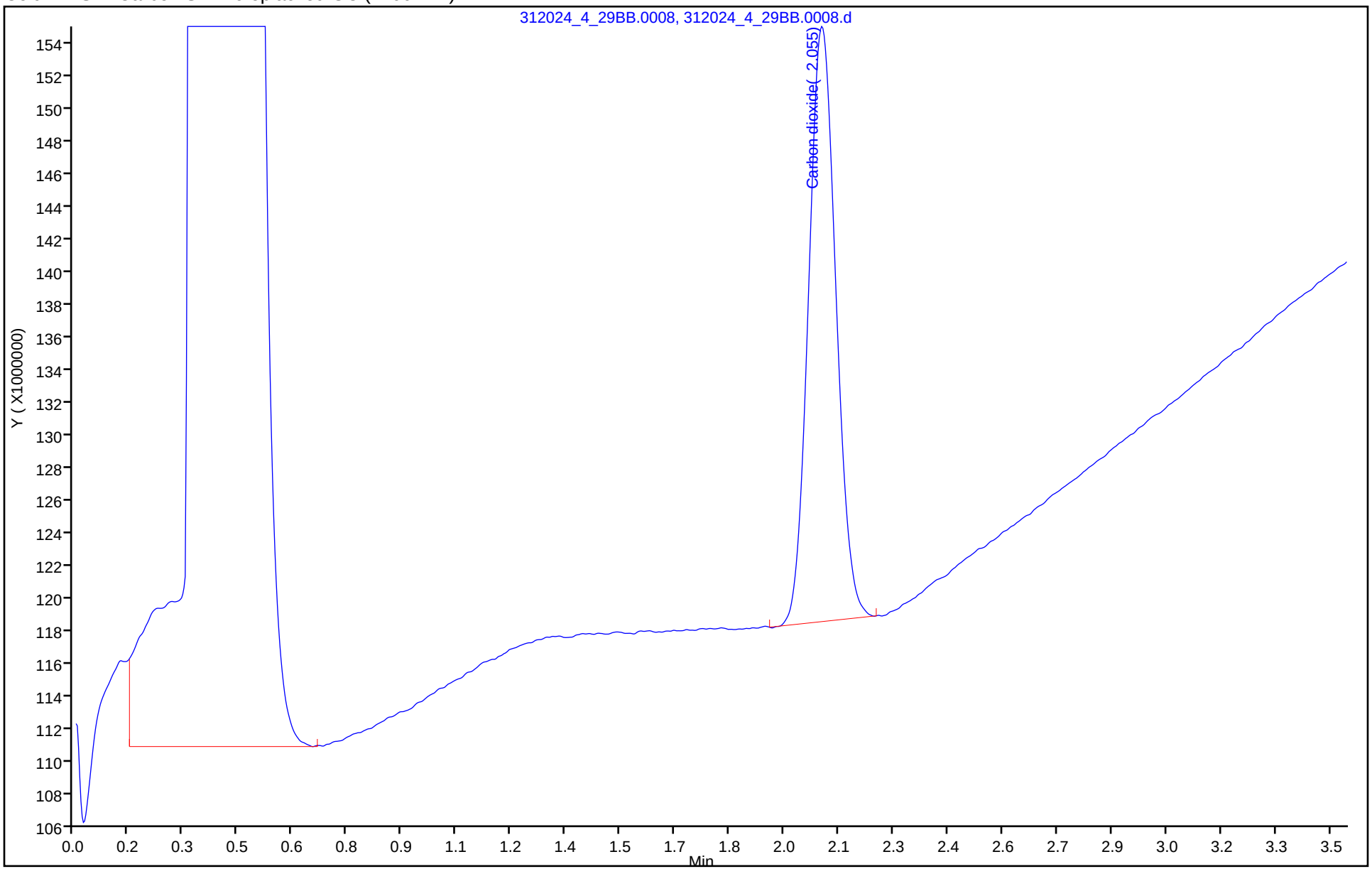
01337454

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0008.d

Injection Date:	29-Apr-2024 15:57:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	IC			Worklist Smp#:	8
Client ID:					
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: ShinCarbon ST Microplacked GC (1.00 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0009.d
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 29-Apr-2024 16:06:00 ALS Bottle#: 0 Worklist Smp#: 9
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 410-0112494-009
Operator ID: Instrument ID: 19506-B
Sublist: chrom-RSK_CO2_19506B*sub1

Method: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\RSK_CO2_19506B.m
Limit Group: GCV - RSK175 CO2
Last Update: 30-Apr-2024 04:04:36 Calib Date: 29-Apr-2024 16:37:00
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d

Column 1 : ShinCarbon ST Microplacked GC (1.00 mm) Det: 0FIDA
Process Host: CTX1646

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.051	2.047	0.004	75940683H	21492	24201	

Reagents:

EPH_CO2MS_00006 Amount Added: 60.00 Units: uL

Report Date: 30-Apr-2024 04:04:36 Chrom Revision: 2.3 26-Apr-2024 12:18:52

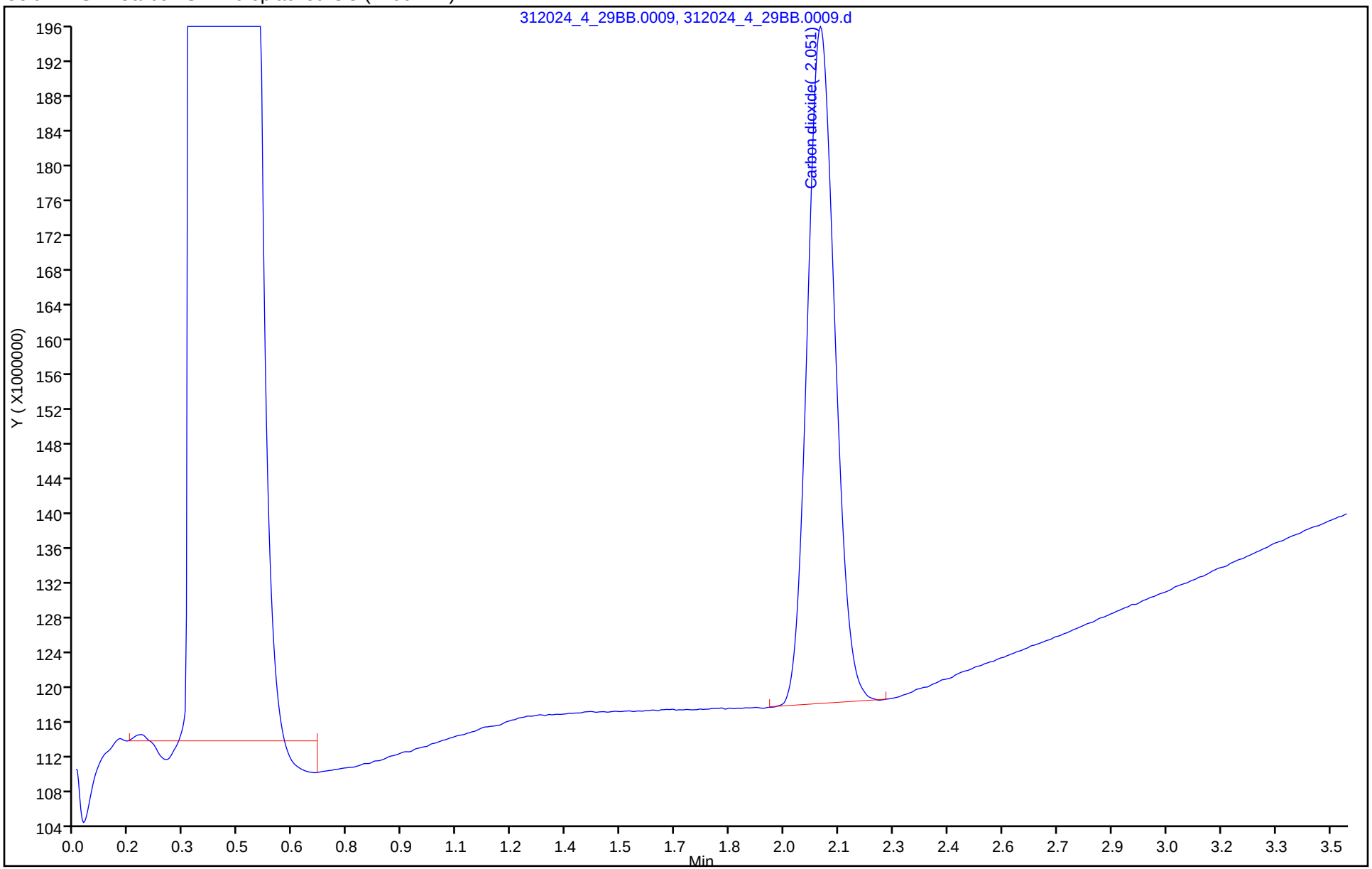
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Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0009.d

Injection Date:	29-Apr-2024 16:06:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	IC			Worklist Smp#:	9
Client ID:					
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: ShinCarbon ST Microplacked GC (1.00 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0010.d
Lims ID: ICRT
Client ID:
Sample Type: ICRT Calib Level: 3
Inject. Date: 29-Apr-2024 16:13:00 ALS Bottle#: 0 Worklist Smp#: 10
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 410-0112494-010
Operator ID: Instrument ID: 19506-B
Sublist: chrom-RSK_CO2_19506B*sub1

Method: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\RSK_CO2_19506B.m
Limit Group: GCV - RSK175 CO2
Last Update: 30-Apr-2024 04:04:36 Calib Date: 29-Apr-2024 16:37:00
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d

Column 1 : ShinCarbon ST Microplacked GC (1.00 mm) Det: 0FIDA
Process Host: CTX1646

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.048	2.048	0.000	120029586	H 35820	38252	

Reagents:

EPH_CO2MS_00006 Amount Added: 100.00 Units: uL

Report Date: 30-Apr-2024 04:04:36 Chrom Revision: 2.3 26-Apr-2024 12:18:52

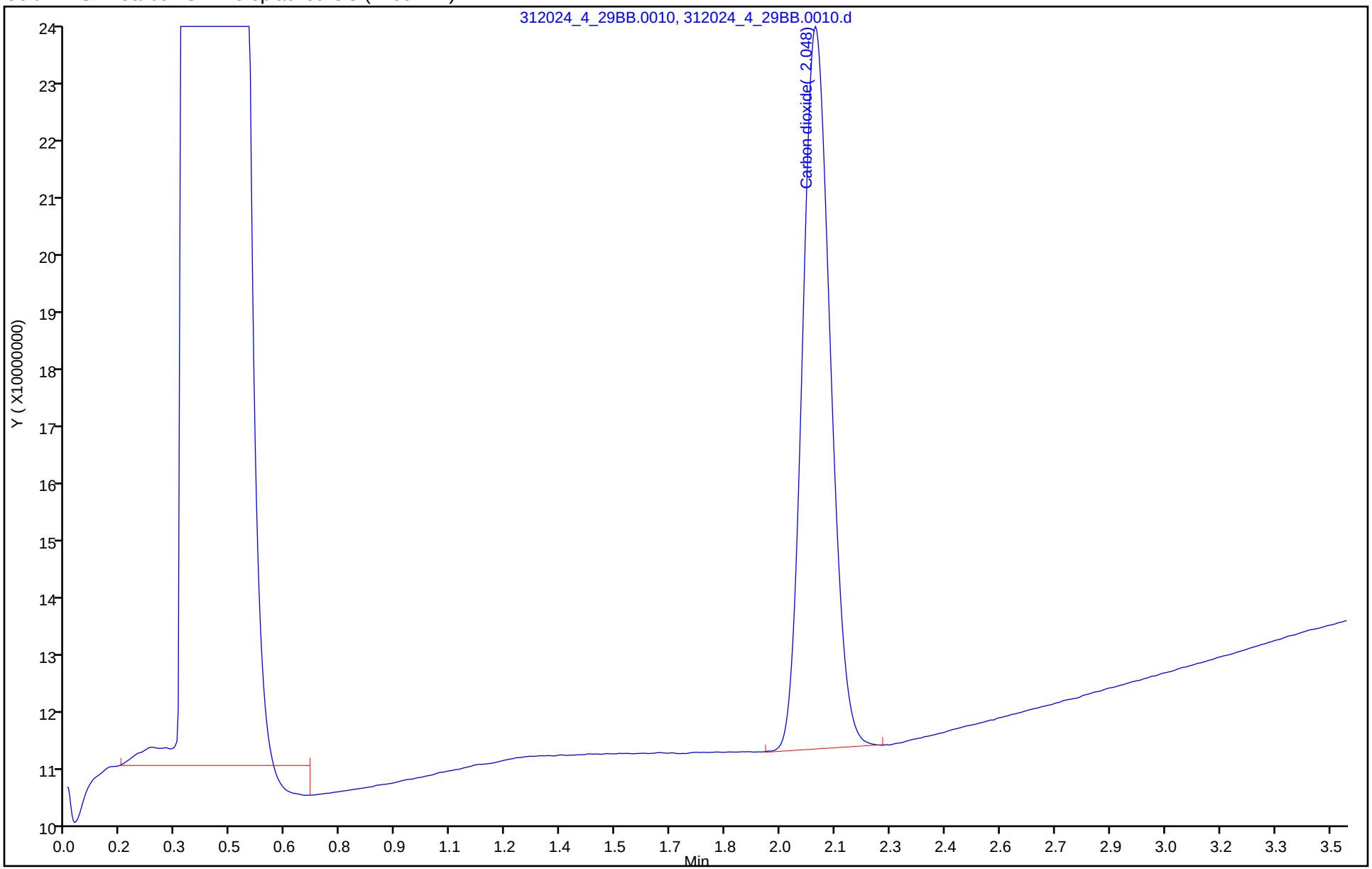
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Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0010.d

Injection Date:	29-Apr-2024 16:13:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	ICRT			Worklist Smp#:	10
Client ID:					
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: ShinCarbon ST Microplacked GC (1.00 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0011.d
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 29-Apr-2024 16:21:00 ALS Bottle#: 0 Worklist Smp#: 11
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 410-0112494-011
Operator ID: Instrument ID: 19506-B
Sublist: chrom-RSK_CO2_19506B*sub1

Method: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\RSK_CO2_19506B.m
Limit Group: GCV - RSK175 CO2
Last Update: 30-Apr-2024 04:04:37 Calib Date: 29-Apr-2024 16:37:00
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d

Column 1 : ShinCarbon ST Microplacked GC (1.00 mm) Det: 0FIDA
Process Host: CTX1646

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.037	2.048	-0.011	268806379	H 89550	85664	

Reagents:

EPH_CO2MS_00006 Amount Added: 250.00 Units: uL

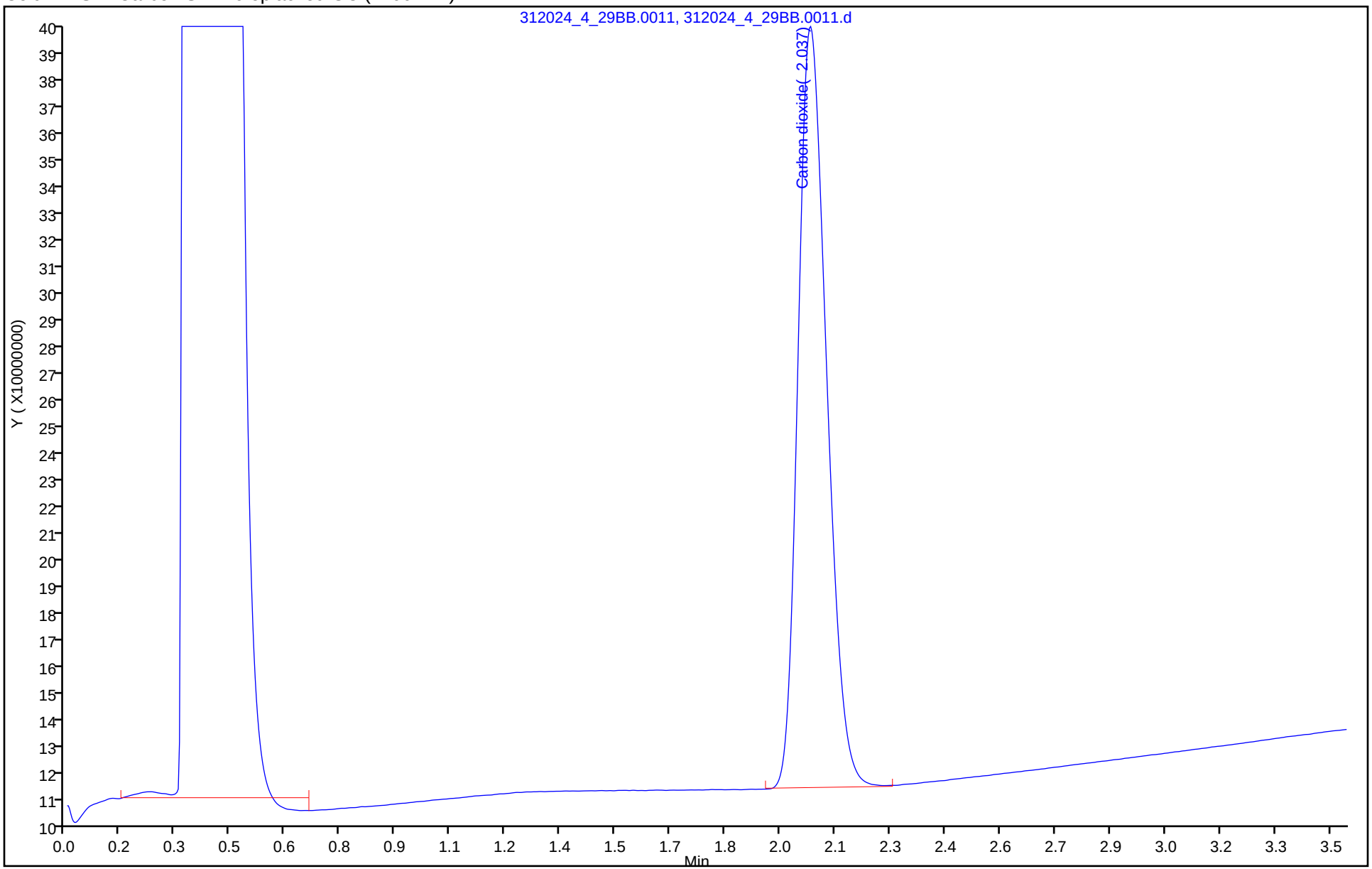
Report Date: 30-Apr-2024 04:04:37 Chrom Revision: 2.3 26-Apr-2024 12:18:52

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0011.d

Injection Date:	29-Apr-2024 16:21:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	IC			Worklist Smp#:	11
Client ID:					
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: ShinCarbon ST Microplacked GC (1.00 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0012.d
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 29-Apr-2024 16:29:00 ALS Bottle#: 0 Worklist Smp#: 12
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 410-0112494-012
Operator ID: Instrument ID: 19506-B
Sublist: chrom-RSK_CO2_19506B*sub1

Method: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\RSK_CO2_19506B.m
Limit Group: GCV - RSK175 CO2
Last Update: 30-Apr-2024 04:04:38 Calib Date: 29-Apr-2024 16:37:00
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d

Column 1 : ShinCarbon ST Microplacked GC (1.00 mm) Det: 0FIDA
Process Host: CTX1646

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.020	2.048	-0.028	522045301	H 179100	166368	

Reagents:

EPH_CO2MS_00006 Amount Added: 500.00 Units: uL

Report Date: 30-Apr-2024 04:04:38 Chrom Revision: 2.3 26-Apr-2024 12:18:52

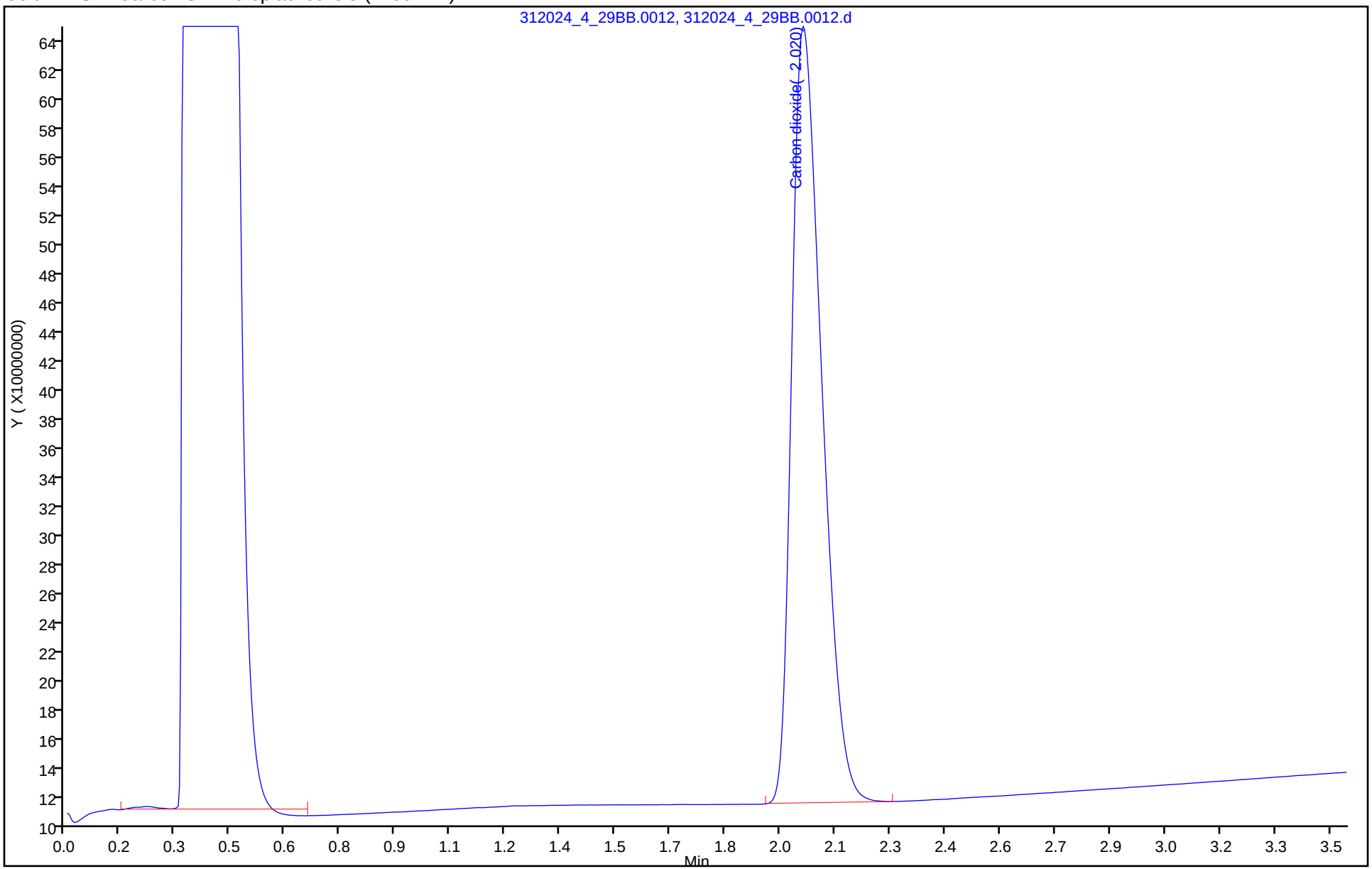
01337462

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0012.d

Injection Date:	29-Apr-2024 16:29:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	IC			Worklist Smp#:	12
Client ID:					
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: ShinCarbon ST Microplacked GC (1.00 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d				
Lims ID:	IC				
Client ID:					
Sample Type:	IC	Calib Level:	6		
Inject. Date:	29-Apr-2024 16:37:00	ALS Bottle#:	0	Worklist Smp#:	13
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0112494-013				
Operator ID:		Instrument ID:	19506-B		
Sublist:	chrom-RSK_CO2_19506B*sub1				
Method:	\\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	30-Apr-2024 04:04:38	Calib Date:	29-Apr-2024 16:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d				
Column 1 :	ShinCarbon ST Microplacked GC (1.00 mm)		Det: 0FIDA		
Process Host:	CTX1646				
First Level Reviewer: LXF2		Date:	30-Apr-2024 04:03:45		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	1.980	2.048	-0.068	986082668H	358200	314249	Ma

QC Flag Legend

Processing Flags

H - Response Measured by Height

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

EPH_CO2MS_00006 Amount Added: 1000.00 Units: uL

Report Date: 30-Apr-2024 04:04:38 Chrom Revision: 2.3 26-Apr-2024 12:18:52

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d

Injection Date: 29-Apr-2024 16:37:00 Instrument ID: 19506-B Operator ID:

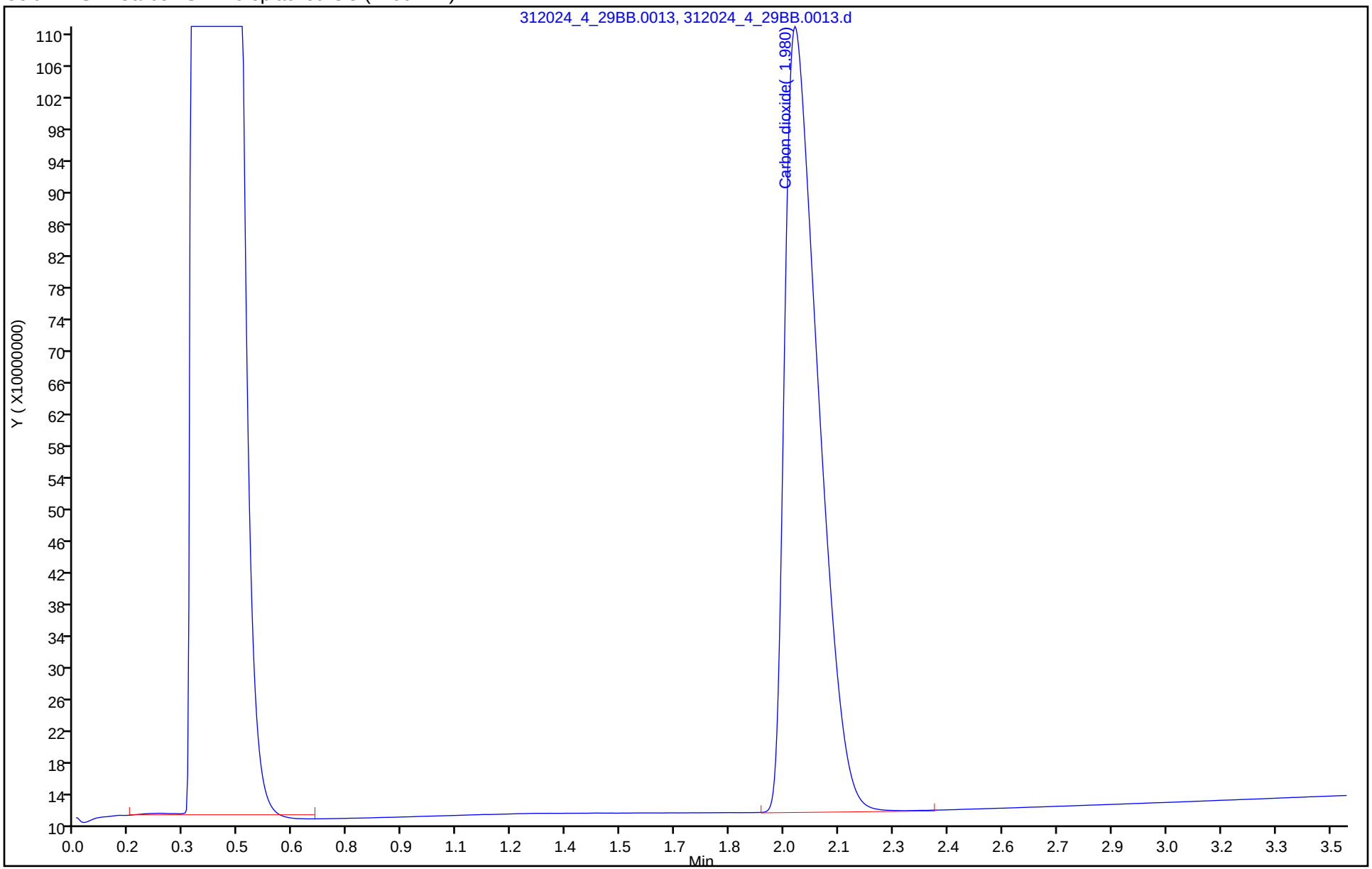
Lims ID: IC Worklist Smp#: 13

Client ID:

Purge Vol: 1.000 mL Dil. Factor: 1.0000 ALS Bottle#: 0

Method: RSK_CO2_19506B Limit Group: GCV - RSK175 CO2

Column: ShinCarbon ST Microplacked GC (1.00 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

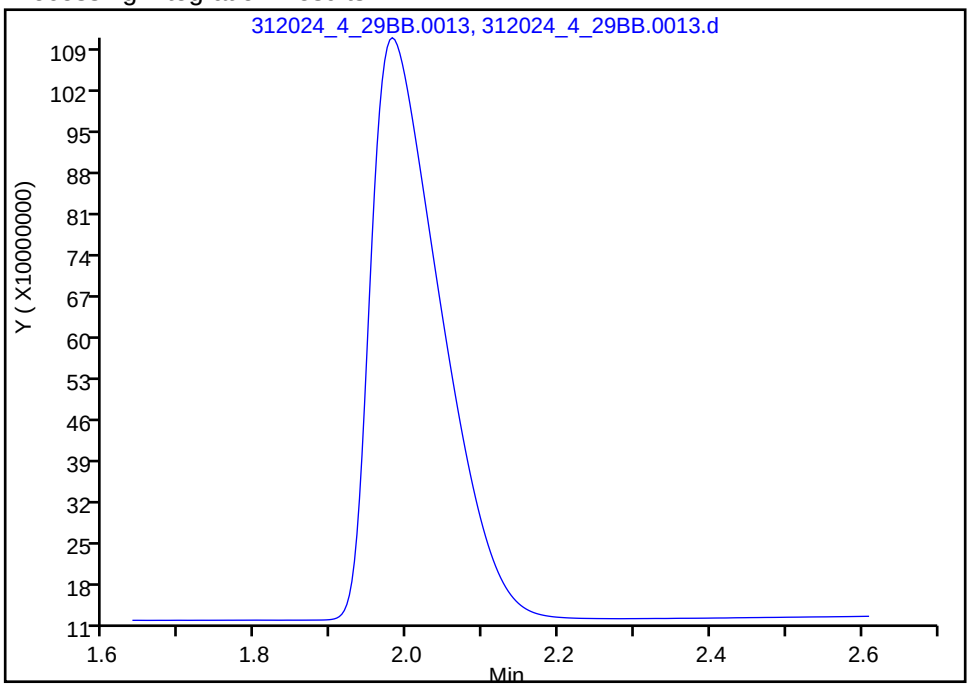
Data File:	\\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d		
Injection Date:	29-Apr-2024 16:37:00	Instrument ID:	19506-B
Lims ID:	IC		
Client ID:			
Operator ID:		ALS Bottle#:	0 Worklist Smp#: 13
Purge Vol:	1.000 mL	Dil. Factor:	1.0000
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2
Column:	ShinCarbon ST Microplacked GC (1.00 mm)	Detector	0FIDA

1 Carbon dioxide, CAS: 124-38-9

Signal: 1

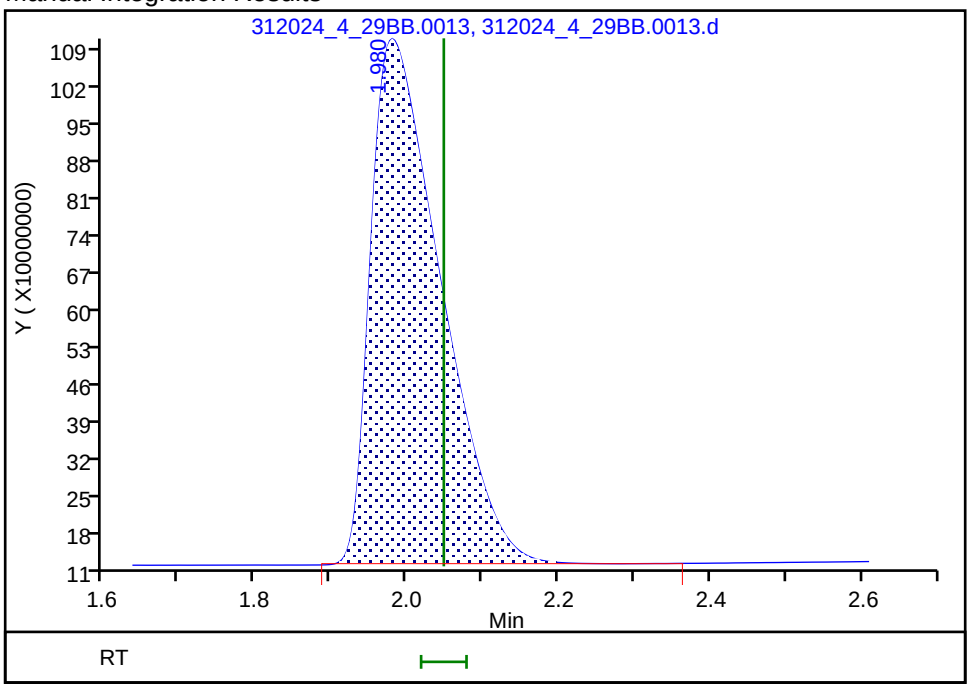
Not Detected
Expected RT: 2.05

Processing Integration Results



Manual Integration Results

RT: 1.98
Height: 986082668
Amount: 314249
Amount Units: ug/l



Reviewer: LXF2, 30-Apr-2024 04:03:43 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Calibration / Carbon dioxide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	HEIGHT
RF Rounding:	0

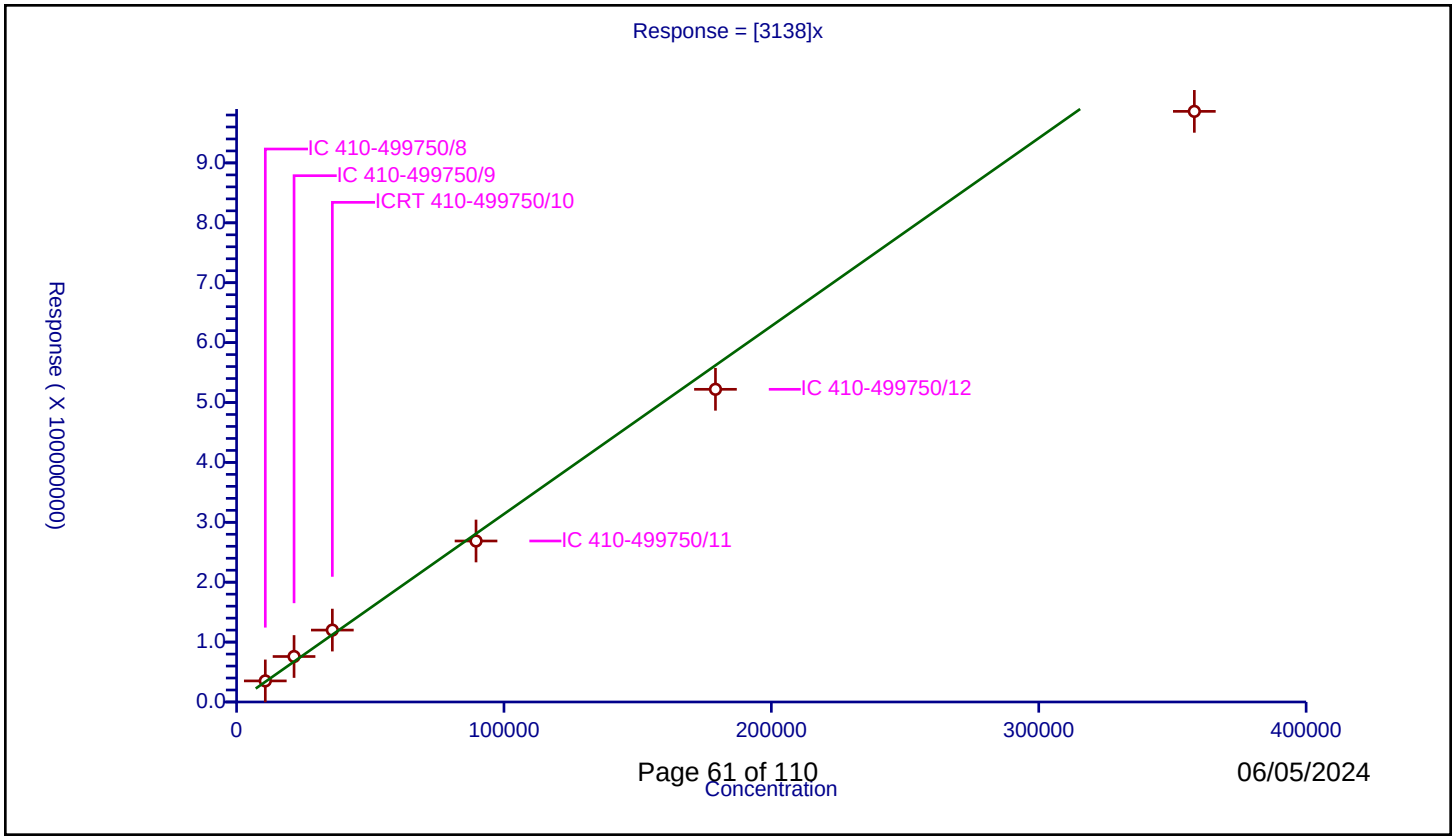
Curve Coefficients

Intercept:	0
Slope:	3138

Error Coefficients

Relative Standard Deviation:	9.4

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 410-499750/8	10746.0	35178219.0			3273.610553	Y
2	IC 410-499750/9	21492.0	75940683.0			3533.439559	Y
3	ICRT 410-499750/10	35820.0	120029586.0			3350.909715	Y
4	IC 410-499750/11	89550.0	268806379.0			3001.746276	Y
5	IC 410-499750/12	179100.0	522045301.0			2914.825801	Y
6	IC 410-499750/13	358200.0	986082668.0			2752.882937	Y



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-174036-1

SDG No.:

Lab Sample ID: ICV 410-499750/16 Calibration Date: 04/29/2024 17:01

Instrument ID: 19506-B Calib Start Date: 04/29/2024 15:57

GC Column: 19809 ID: 1.00(mm) Calib End Date: 04/29/2024 16:37

Lab File ID: 312024_4_29BB.0016.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Carbon dioxide	Ave	3138	3393		37900	35000	8.1	15.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-174036-1

SDG No.:

Lab Sample ID: ICV 410-499750/16
Calibration Date: 04/29/2024 17:01

Instrument ID: 19506-B
Calib Start Date: 04/29/2024 15:57

GC Column: 19809 ID: 1.00(mm)
Calib End Date: 04/29/2024 16:37

Lab File ID: 312024_4_29BB.0016.d
Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Carbon dioxide	2.05	2.02	2.08

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0016.d
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 29-Apr-2024 17:01:00 ALS Bottle#: 0 Worklist Smp#: 16
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 410-0112494-016
Operator ID: Instrument ID: 19506-B
Sublist:

Method: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\RSK_CO2_19506B.m
Limit Group: GCV - RSK175 CO2
Last Update: 30-Apr-2024 04:13:29 Calib Date: 29-Apr-2024 16:37:00
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d

Column 1 : ShinCarbon ST Microplacked GC (1.00 mm) Det: 0FIDA
Process Host: CTX1646

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.048	2.047	0.001	118784440	H 35008	37855	

Reagents:

EPH_CO2ICV_00003 Amount Added: 320.00 Units: uL

Report Date: 30-Apr-2024 04:40:23 Chrom Revision: 2.3 26-Apr-2024 12:18:52

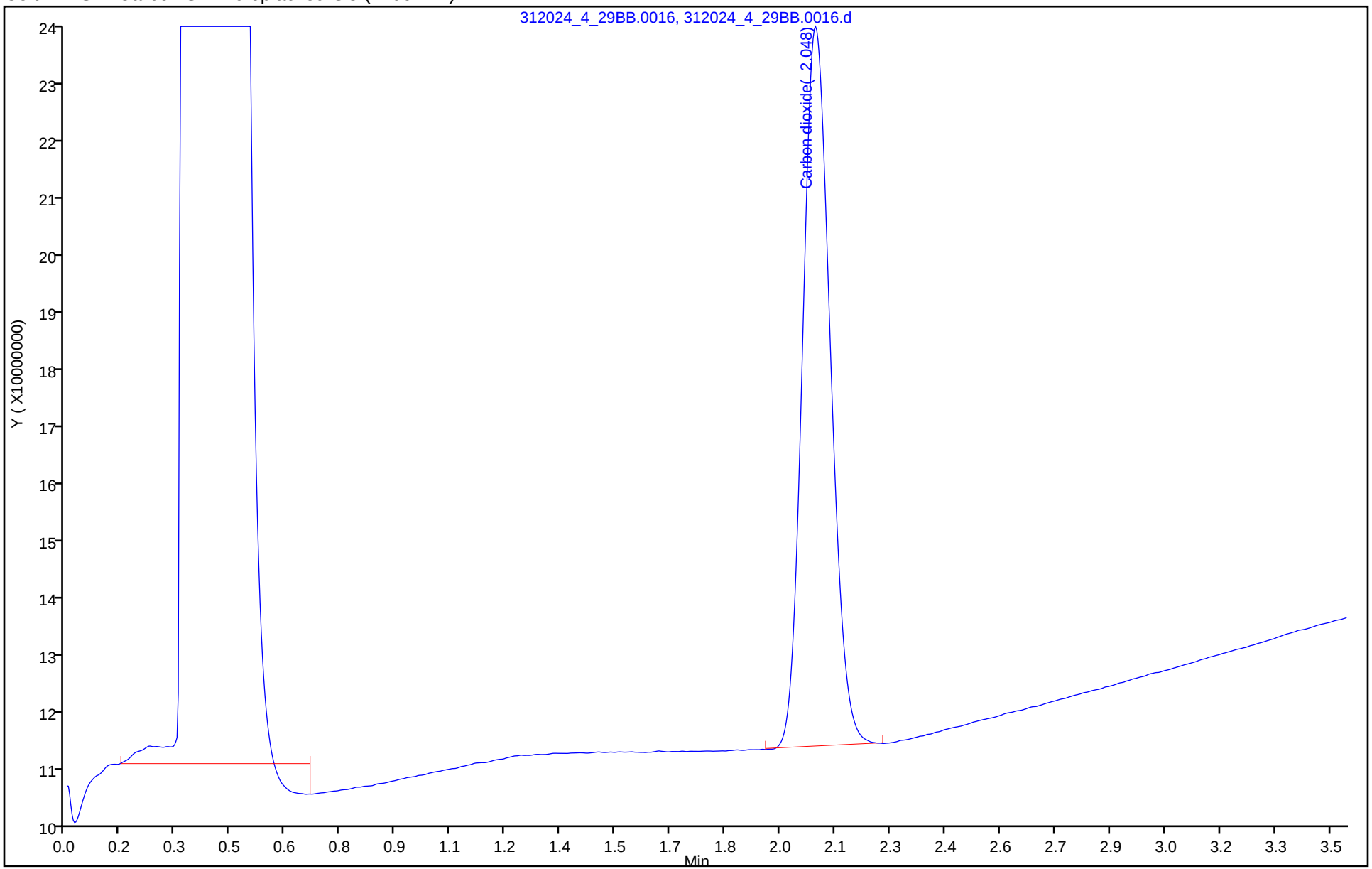
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Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0016.d

Injection Date:	29-Apr-2024 17:01:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	ICV			Worklist Smp#:	16
Client ID:					
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: ShinCarbon ST Microplacked GC (1.00 mm)



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-174036-1

SDG No.:

Lab Sample ID: CCVRT 410-512895/4 Calibration Date: 06/03/2024 09:57

Instrument ID: 19506-B Calib Start Date: 04/29/2024 15:57

GC Column: 19809 ID: 1.00(mm) Calib End Date: 04/29/2024 16:37

Lab File ID: 312024_6_3BB.0004.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Carbon dioxide	Ave	3138	3535		40300	35800	12.6	15.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-174036-1

SDG No.:

Lab Sample ID: CCVRT 410-512895/4
Calibration Date: 06/03/2024 09:57

Instrument ID: 19506-B
Calib Start Date: 04/29/2024 15:57

GC Column: 19809 ID: 1.00(mm)
Calib End Date: 04/29/2024 16:37

Lab File ID: 312024_6_3BB.0004.d
Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Carbon dioxide	2.04	2.01	2.07

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240603-115596.b\312024_6_3BB.0004.d
Lims ID: ccvrt
Client ID:
Sample Type: CCVRT
Inject. Date: 03-Jun-2024 09:57:00 ALS Bottle#: 0 Worklist Smp#: 4
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 410-0115596-004
Operator ID: Instrument ID: 19506-B
Sublist: chrom-RSK_CO2_19506B*sub1

Method: \\chromfs\Lancaster\ChromData\19506-B\20240603-115596.b\RSK_CO2_19506B.m
Limit Group: GCV - RSK175 CO2
Last Update: 04-Jun-2024 04:04:42 Calib Date: 29-Apr-2024 16:37:00
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d

Column 1 : ShinCarbon ST Microplacked GC (1.00 mm) Det: 0FIDA
Process Host: CTX1618

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.037	2.037	0.000	126607045	H 35820	40348	

Reagents:

EPH_CO2MS_00006 Amount Added: 100.00 Units: uL

Report Date: 04-Jun-2024 04:04:42 Chrom Revision: 2.3 20-May-2024 22:00:34

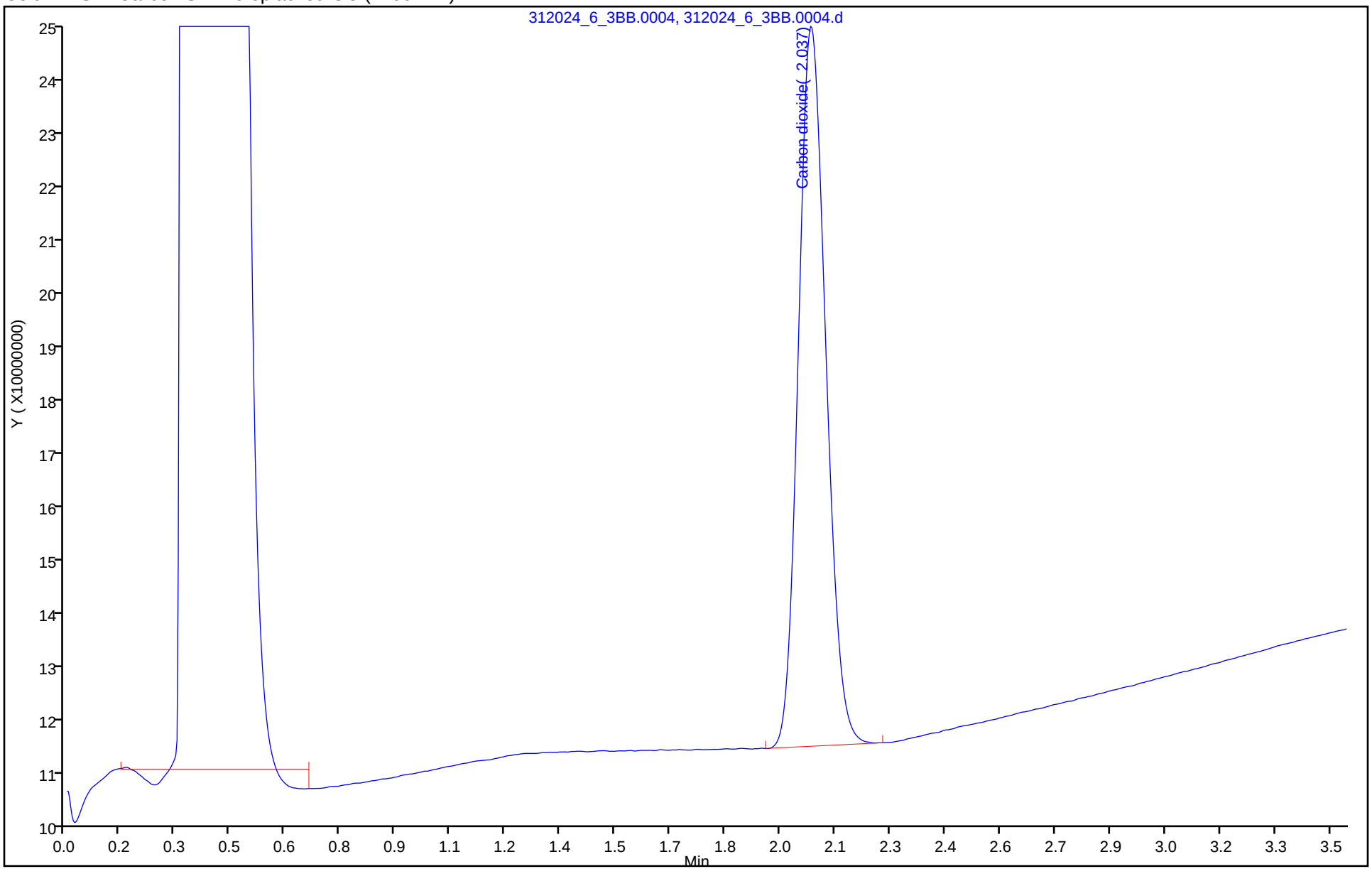
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Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240603-115596.b\312024_6_3BB.0004.d

Injection Date:	03-Jun-2024 09:57:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	ccvrt			Worklist Smp#:	4
Client ID:					
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: ShinCarbon ST Microplacked GC (1.00 mm)



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-174036-1

SDG No.:

Lab Sample ID: CCV 410-512895/15 Calibration Date: 06/03/2024 12:02

Instrument ID: 19506-B Calib Start Date: 04/29/2024 15:57

GC Column: 19809 ID: 1.00(mm) Calib End Date: 04/29/2024 16:37

Lab File ID: 312024_6_3BB.0015.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Carbon dioxide	Ave	3138	3270		37300	35800	4.2	15.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-174036-1

SDG No.:

Lab Sample ID: CCV 410-512895/15 Calibration Date: 06/03/2024 12:02

Instrument ID: 19506-B Calib Start Date: 04/29/2024 15:57

GC Column: 19809 ID: 1.00(mm) Calib End Date: 04/29/2024 16:37

Lab File ID: 312024_6_3BB.0015.d Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Carbon dioxide	2.04	2.01	2.07

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20240603-115596.b\312024_6_3BB.0015.d				
Lims ID:	ccv				
Client ID:					
Sample Type:	CCV				
Inject. Date:	03-Jun-2024 12:02:00	ALS Bottle#:	0	Worklist Smp#:	15
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0115596-015				
Operator ID:		Instrument ID:	19506-B		
Sublist:	chrom-RSK_CO2_19506B*sub1				
Method:	\\chromfs\Lancaster\ChromData\19506-B\20240603-115596.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	04-Jun-2024 04:04:45	Calib Date:	29-Apr-2024 16:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d				
Column 1 :	ShinCarbon ST Microplacked GC (1.00 mm)		Det: 0FIDA		
Process Host:	CTX1618				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.037	2.037	0.000	117115186	H 35820	37323	

Reagents:

EPH_CO2MS_00006 Amount Added: 100.00 Units: uL

Report Date: 04-Jun-2024 04:04:46 Chrom Revision: 2.3 20-May-2024 22:00:34

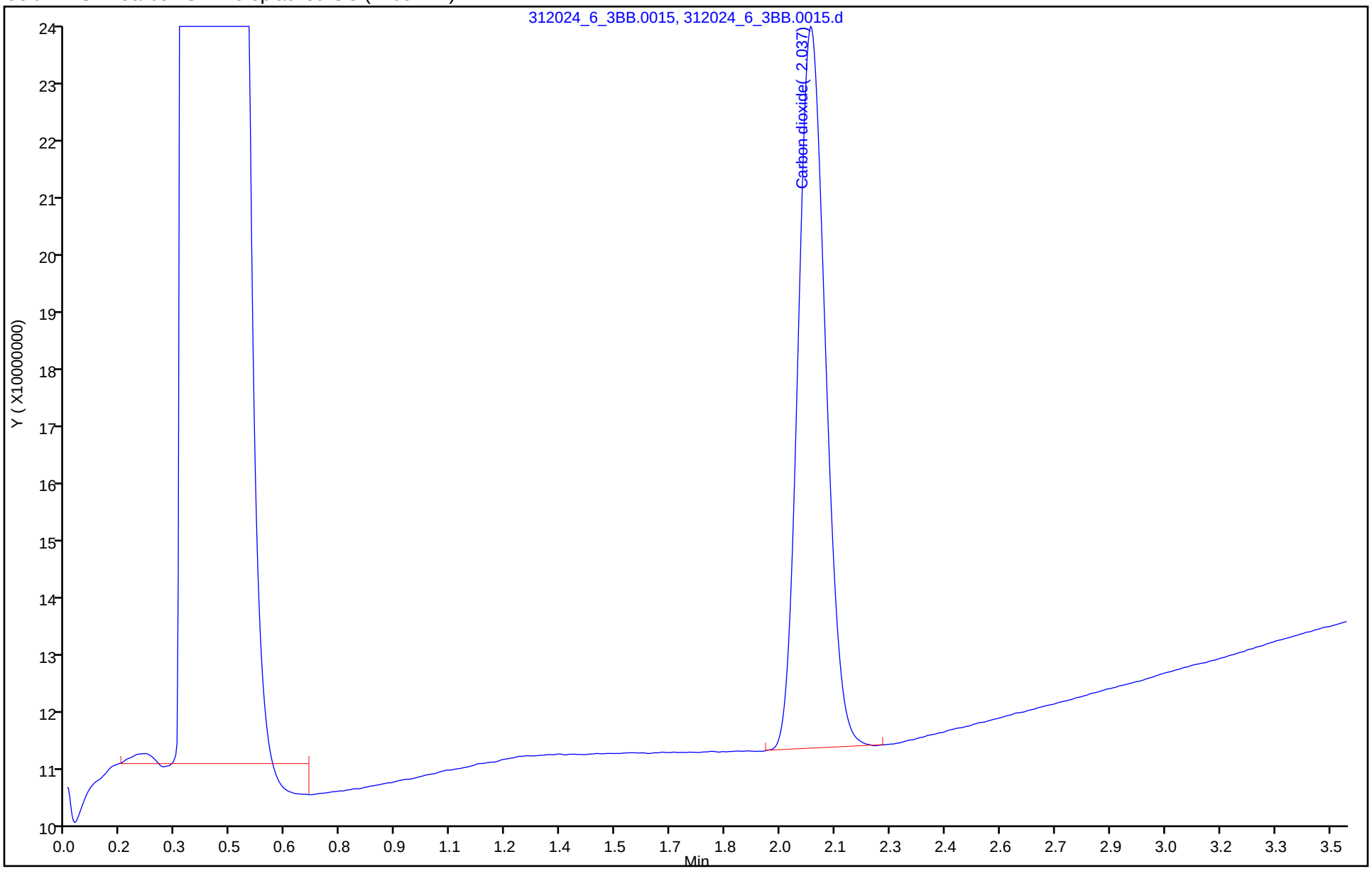
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Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240603-115596.b\312024_6_3BB.0015.d

Injection Date:	03-Jun-2024 12:02:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	ccv			Worklist Smp#:	15
Client ID:					
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: ShinCarbon ST Microplacked GC (1.00 mm)



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-174036-1

SDG No.:

Lab Sample ID: CCVRT 410-513353/4 Calibration Date: 06/04/2024 10:15

Instrument ID: 19506-B Calib Start Date: 04/29/2024 15:57

GC Column: 19809 ID: 1.00(mm) Calib End Date: 04/29/2024 16:37

Lab File ID: 312024_6_4BB.0004.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Carbon dioxide	Ave	3138	3601		41100	35800	14.8	15.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-174036-1

SDG No.:

Lab Sample ID: CCVRT 410-513353/4 Calibration Date: 06/04/2024 10:15

Instrument ID: 19506-B Calib Start Date: 04/29/2024 15:57

GC Column: 19809 ID: 1.00(mm) Calib End Date: 04/29/2024 16:37

Lab File ID: 312024_6_4BB.0004.d Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Carbon dioxide	2.04	2.01	2.07

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20240604-115704.b\312024_6_4BB.0004.d				
Lims ID:	ccvrt				
Client ID:					
Sample Type:	CCVRT				
Inject. Date:	04-Jun-2024 10:15:00	ALS Bottle#:	0	Worklist Smp#:	4
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0115704-004				
Operator ID:		Instrument ID:	19506-B		
Sublist:	chrom-RSK_CO2_19506B*sub1				
Method:	\\chromfs\Lancaster\ChromData\19506-B\20240604-115704.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	05-Jun-2024 04:01:19	Calib Date:	29-Apr-2024 16:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d				
Column 1 :	ShinCarbon ST Microplacked GC (1.00 mm)		Det: 0FIDA		
Process Host:	CTX1622				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.042	2.042	0.000	128998696	H 35820	41110	

Reagents:

EPH_CO2MS_00006 Amount Added: 100.00 Units: uL

Report Date: 05-Jun-2024 04:01:19 Chrom Revision: 2.3 20-May-2024 22:00:34

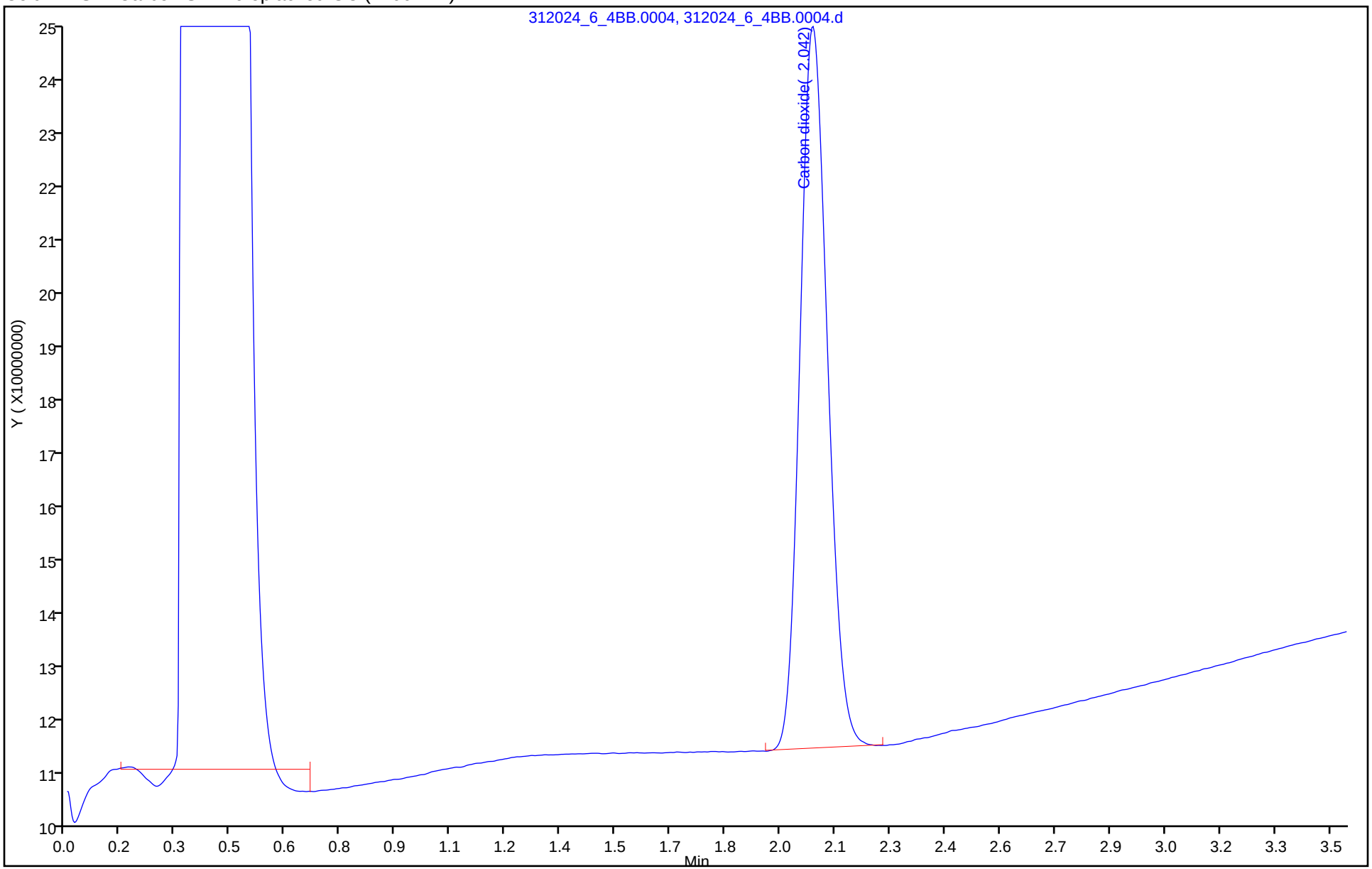
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Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240604-115704.b\312024_6_4BB.0004.d

Injection Date:	04-Jun-2024 10:15:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	ccvrt			Worklist Smp#:	4
Client ID:					
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: ShinCarbon ST Microplacked GC (1.00 mm)



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-174036-1

SDG No.:

Lab Sample ID: CCV 410-513353/15 Calibration Date: 06/04/2024 11:45

Instrument ID: 19506-B Calib Start Date: 04/29/2024 15:57

GC Column: 19809 ID: 1.00(mm) Calib End Date: 04/29/2024 16:37

Lab File ID: 312024_6_4BB.0015.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Carbon dioxide	Ave	3138	3412		38900	35800	8.7	15.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-174036-1

SDG No.:

Lab Sample ID: CCV 410-513353/15 Calibration Date: 06/04/2024 11:45

Instrument ID: 19506-B Calib Start Date: 04/29/2024 15:57

GC Column: 19809 ID: 1.00(mm) Calib End Date: 04/29/2024 16:37

Lab File ID: 312024_6_4BB.0015.d Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Carbon dioxide	2.04	2.01	2.07

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19506-B\20240604-115704.b\312024_6_4BB.0015.d				
Lims ID:	ccv				
Client ID:					
Sample Type:	CCV				
Inject. Date:	04-Jun-2024 11:45:00	ALS Bottle#:	0	Worklist Smp#:	15
Purge Vol:	1.000 mL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	410-0115704-015				
Operator ID:		Instrument ID:	19506-B		
Sublist:	chrom-RSK_CO2_19506B*sub1				
Method:	\\chromfs\Lancaster\ChromData\19506-B\20240604-115704.b\RSK_CO2_19506B.m				
Limit Group:	GCV - RSK175 CO2				
Last Update:	05-Jun-2024 04:01:24	Calib Date:	29-Apr-2024 16:37:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d				
Column 1 :	ShinCarbon ST Microplacked GC (1.00 mm)		Det: 0FIDA		
Process Host:	CTX1622				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.042	2.042	0.000	122211568	H 35820	38947	

Reagents:

EPH_CO2MS_00006 Amount Added: 100.00 Units: uL

Report Date: 05-Jun-2024 04:01:24 Chrom Revision: 2.3 20-May-2024 22:00:34

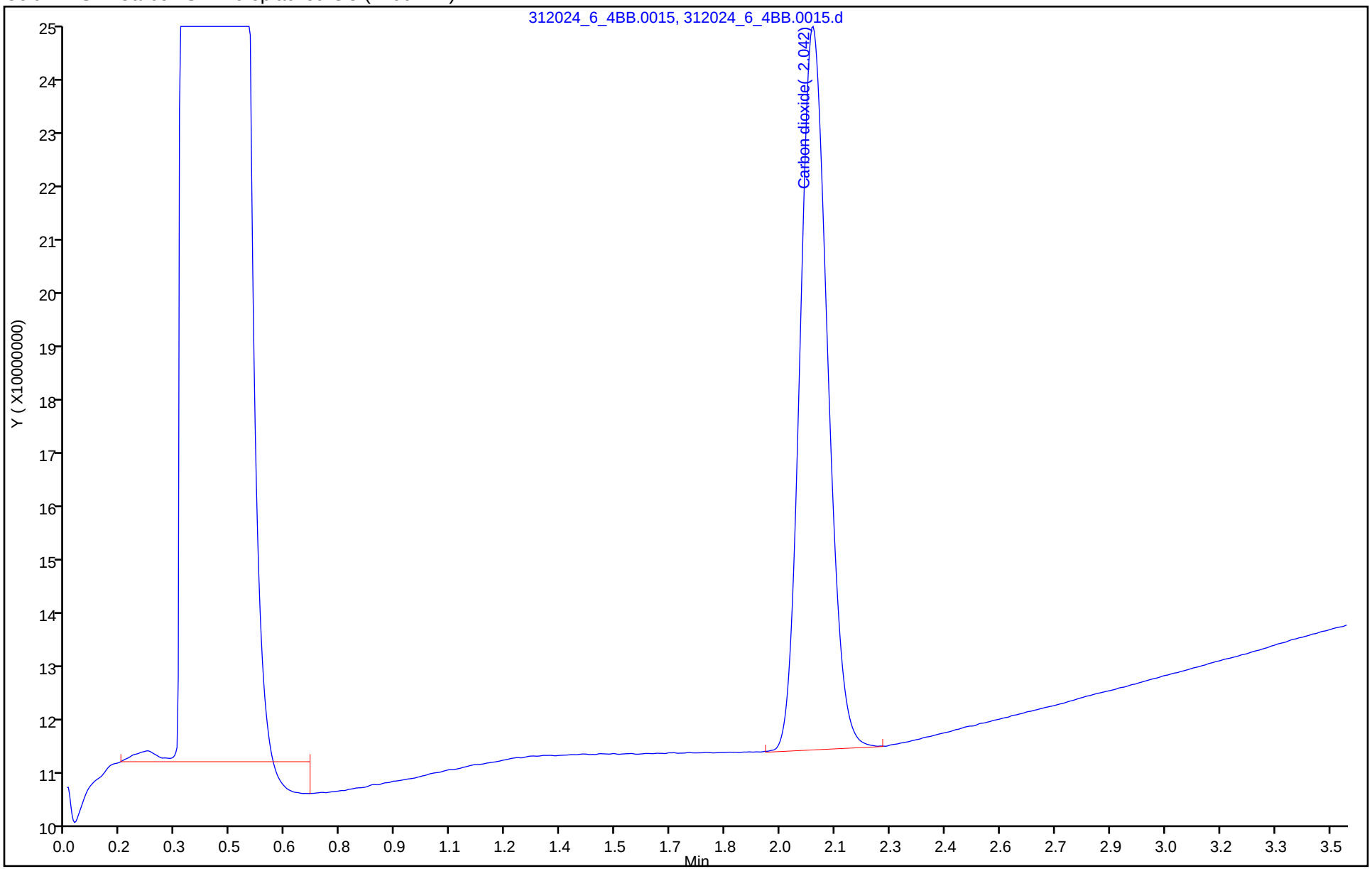
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Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240604-115704.b\312024_6_4BB.0015.d

Injection Date:	04-Jun-2024 11:45:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	ccv			Worklist Smp#:	15
Client ID:					
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: ShinCarbon ST Microplacked GC (1.00 mm)



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-174036-1

SDG No.:

Lab Sample ID: CCV 410-513353/19 Calibration Date: 06/04/2024 12:37

Instrument ID: 19506-B Calib Start Date: 04/29/2024 15:57

GC Column: 19809 ID: 1.00(mm) Calib End Date: 04/29/2024 16:37

Lab File ID: 312024_6_4BB.0019.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Carbon dioxide	Ave	3138	3352		38300	35800	6.8	15.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-174036-1

SDG No.:

Lab Sample ID: CCV 410-513353/19 Calibration Date: 06/04/2024 12:37

Instrument ID: 19506-B Calib Start Date: 04/29/2024 15:57

GC Column: 19809 ID: 1.00(mm) Calib End Date: 04/29/2024 16:37

Lab File ID: 312024_6_4BB.0019.d Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Carbon dioxide	2.04	2.01	2.07

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240604-115704.b\312024_6_4BB.0019.d
Lims ID: ccv
Client ID:
Sample Type: CCV
Inject. Date: 04-Jun-2024 12:37:00 ALS Bottle#: 0 Worklist Smp#: 19
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 410-0115704-019
Operator ID: Instrument ID: 19506-B
Sublist: chrom-RSK_CO2_19506B*sub1

Method: \\chromfs\Lancaster\ChromData\19506-B\20240604-115704.b\RSK_CO2_19506B.m
Limit Group: GCV - RSK175 CO2
Last Update: 05-Jun-2024 04:01:25 Calib Date: 29-Apr-2024 16:37:00
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d

Column 1 : ShinCarbon ST Microplacked GC (1.00 mm) Det: 0FIDA
Process Host: CTX1622

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.042	2.042	0.000	120084480	H 35820	38269	

Reagents:

EPH_CO2MS_00006 Amount Added: 100.00 Units: uL

Report Date: 05-Jun-2024 04:01:25 Chrom Revision: 2.3 20-May-2024 22:00:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240604-115704.b\312024_6_4BB.0019.d

Injection Date: 04-Jun-2024 12:37:00 Instrument ID: 19506-B Operator ID:

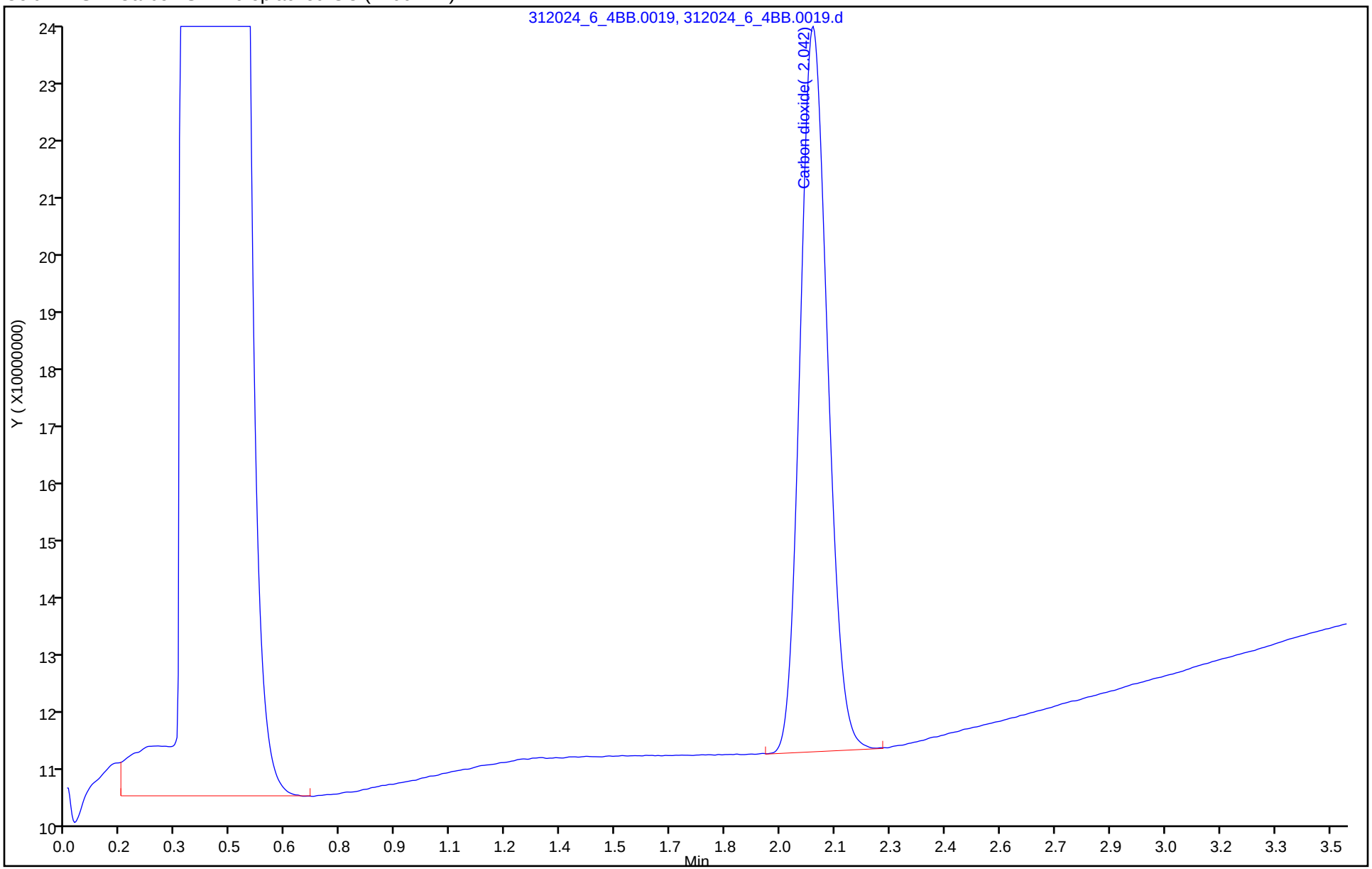
Lims ID: ccv Worklist Smp#: 19

Client ID:

Purge Vol: 1.000 mL Dil. Factor: 1.0000 ALS Bottle#: 0

Method: RSK_CO2_19506B Limit Group: GCV - RSK175 CO2

Column: ShinCarbon ST Microplacked GC (1.00 mm)



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-174036-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 410-512911/1-A

Matrix: Water Lab File ID: 312024_6_3BB.0005.d

Analysis Method: RSK-175 Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 06/03/2024 10:18

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: 19809 ID: 1(mm)

Purge Volume: Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 512895 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
124-38-9	Carbon dioxide	5600	U	12000	11000	5600

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240603-115596.b\312024_6_3BB.0005.d
Lims ID: MB 410-512911/1-A
Client ID:
Sample Type: MB
Inject. Date: 03-Jun-2024 10:18:00 ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 410-0115596-005
Operator ID: Instrument ID: 19506-B

Method: \\chromfs\Lancaster\ChromData\19506-B\20240603-115596.b\RSK_CO2_19506B.m
Limit Group: GCV - RSK175 CO2
Last Update: 04-Jun-2024 04:04:42 Calib Date: 29-Apr-2024 16:37:00
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d

Column 1 : ShinCarbon ST Microplacked GC (1.00 mm) Det: 0FIDA
Process Host: CTX1618

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.045	2.037	0.008	3081763H		982.1	

Report Date: 04-Jun-2024 04:04:42 Chrom Revision: 2.3 20-May-2024 22:00:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240603-115596.b\312024_6_3BB.0005.d

Injection Date: 03-Jun-2024 10:18:00 Instrument ID: 19506-B Operator ID:

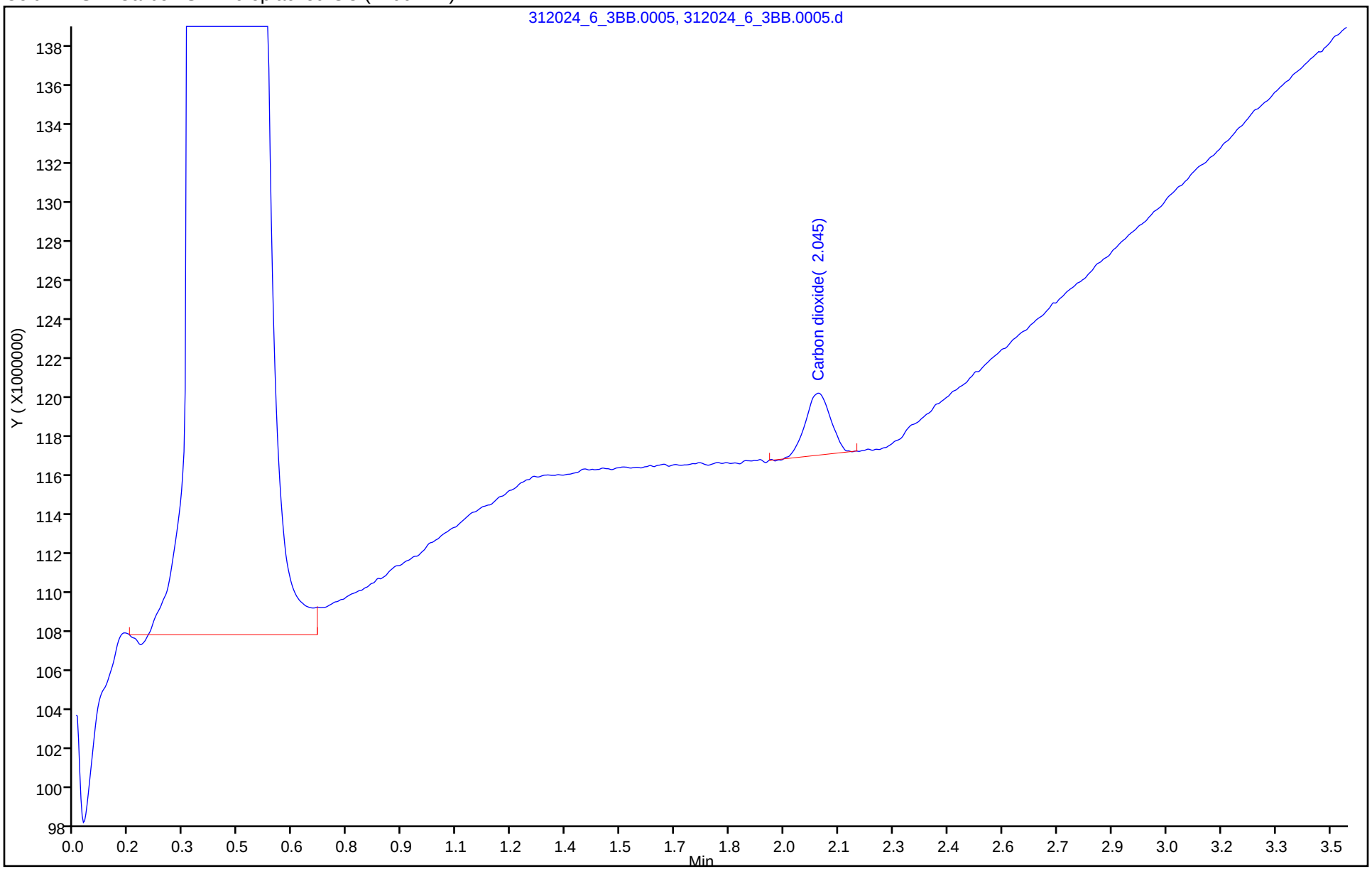
Lims ID: MB 410-512911/1-A Worklist Smp#: 5

Client ID:

Purge Vol: 1.000 mL Dil. Factor: 1.0000 ALS Bottle#: 0

Method: RSK_CO2_19506B Limit Group: GCV - RSK175 CO2

Column: ShinCarbon ST Microplacked GC (1.00 mm)



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-174036-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 410-513397/1-A

Matrix: Water Lab File ID: 312024_6_4BB.0005.d

Analysis Method: RSK-175 Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 06/04/2024 10:27

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: 19809 ID: 1(mm)

Purge Volume: Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 513353 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
124-38-9	Carbon dioxide	5600	U	12000	11000	5600

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240604-115704.b\312024_6_4BB.0005.d
Lims ID: MB 410-513397/1-A
Client ID:
Sample Type: MB
Inject. Date: 04-Jun-2024 10:27:00 ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 410-0115704-005
Operator ID: Instrument ID: 19506-B

Method: \\chromfs\Lancaster\ChromData\19506-B\20240604-115704.b\RSK_CO2_19506B.m
Limit Group: GCV - RSK175 CO2
Last Update: 05-Jun-2024 04:01:19 Calib Date: 29-Apr-2024 16:37:00
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d

Column 1 : ShinCarbon ST Microplacked GC (1.00 mm) Det: 0FIDA
Process Host: CTX1622

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.050	2.042	0.008	3989536H		1271.4	

Report Date: 05-Jun-2024 04:01:20 Chrom Revision: 2.3 20-May-2024 22:00:34

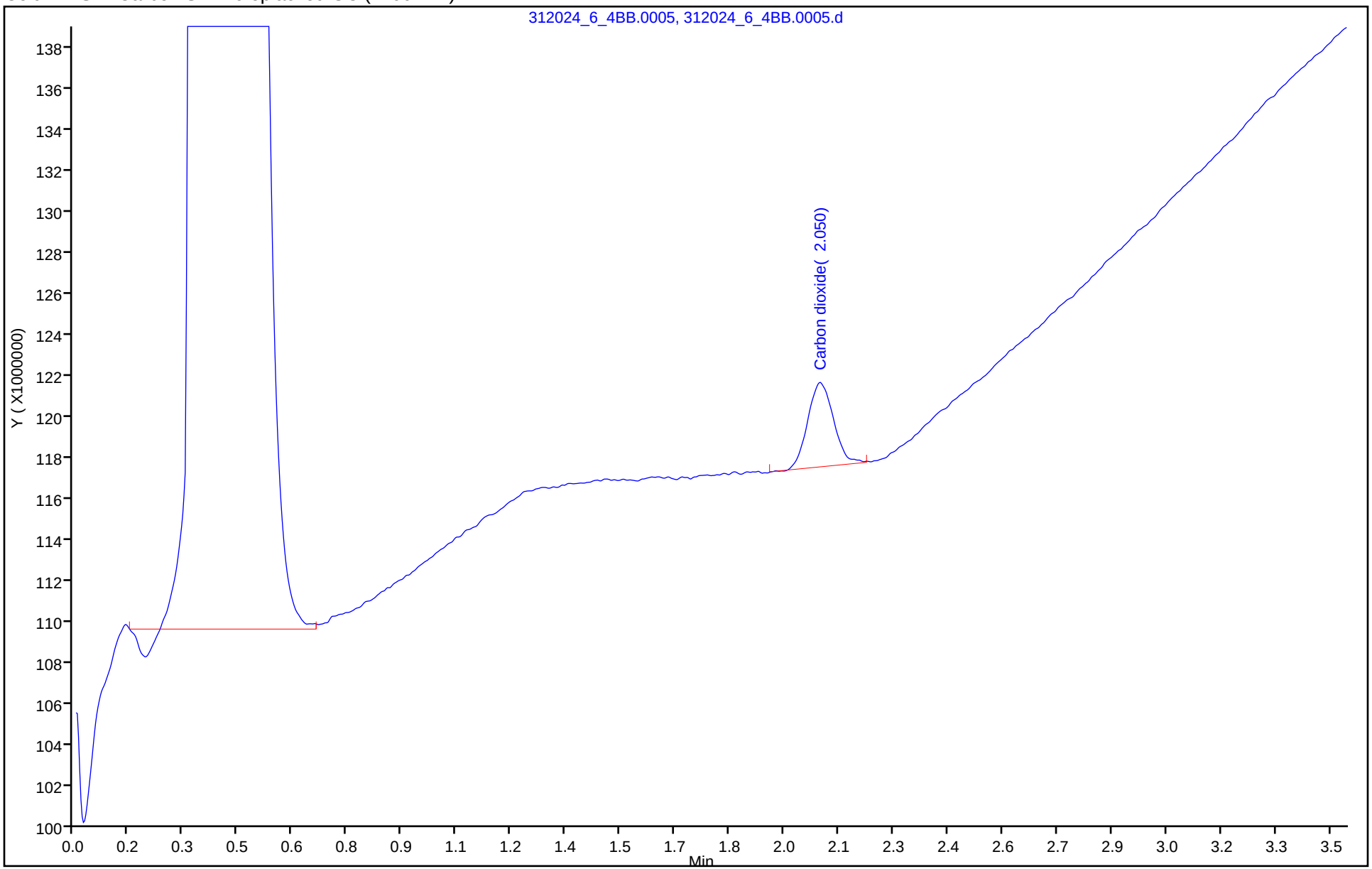
01337496

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240604-115704.b\312024_6_4BB.0005.d

Injection Date:	04-Jun-2024 10:27:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	MB 410-513397/1-A			Worklist Smp#:	5
Client ID:					
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: ShinCarbon ST Microplacked GC (1.00 mm)



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-174036-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 410-512911/2-A

Matrix: Water Lab File ID: 312024_6_3BB.0006.d

Analysis Method: RSK-175 Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 06/03/2024 10:26

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: 19809 ID: 1(mm)

Purge Volume: Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 512895 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
124-38-9	Carbon dioxide	38800		12000	11000	5600

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240603-115596.b\312024_6_3BB.0006.d
Lims ID: LCS 410-512911/2-A
Client ID:
Sample Type: LCS
Inject. Date: 03-Jun-2024 10:26:00 ALS Bottle#: 0 Worklist Smp#: 6
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 410-0115596-006
Operator ID: Instrument ID: 19506-B

Method: \\chromfs\Lancaster\ChromData\19506-B\20240603-115596.b\RSK_CO2_19506B.m
Limit Group: GCV - RSK175 CO2
Last Update: 04-Jun-2024 04:04:42 Calib Date: 29-Apr-2024 16:37:00
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d

Column 1 : ShinCarbon ST Microplacked GC (1.00 mm) Det: 0FIDA
Process Host: CTX1618

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.037	2.037	0.000	121608938	H 35820	38755	

Report Date: 04-Jun-2024 04:04:42 Chrom Revision: 2.3 20-May-2024 22:00:34

01337499

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240603-115596.b\312024_6_3BB.0006.d

Injection Date: 03-Jun-2024 10:26:00 Instrument ID: 19506-B Operator ID:

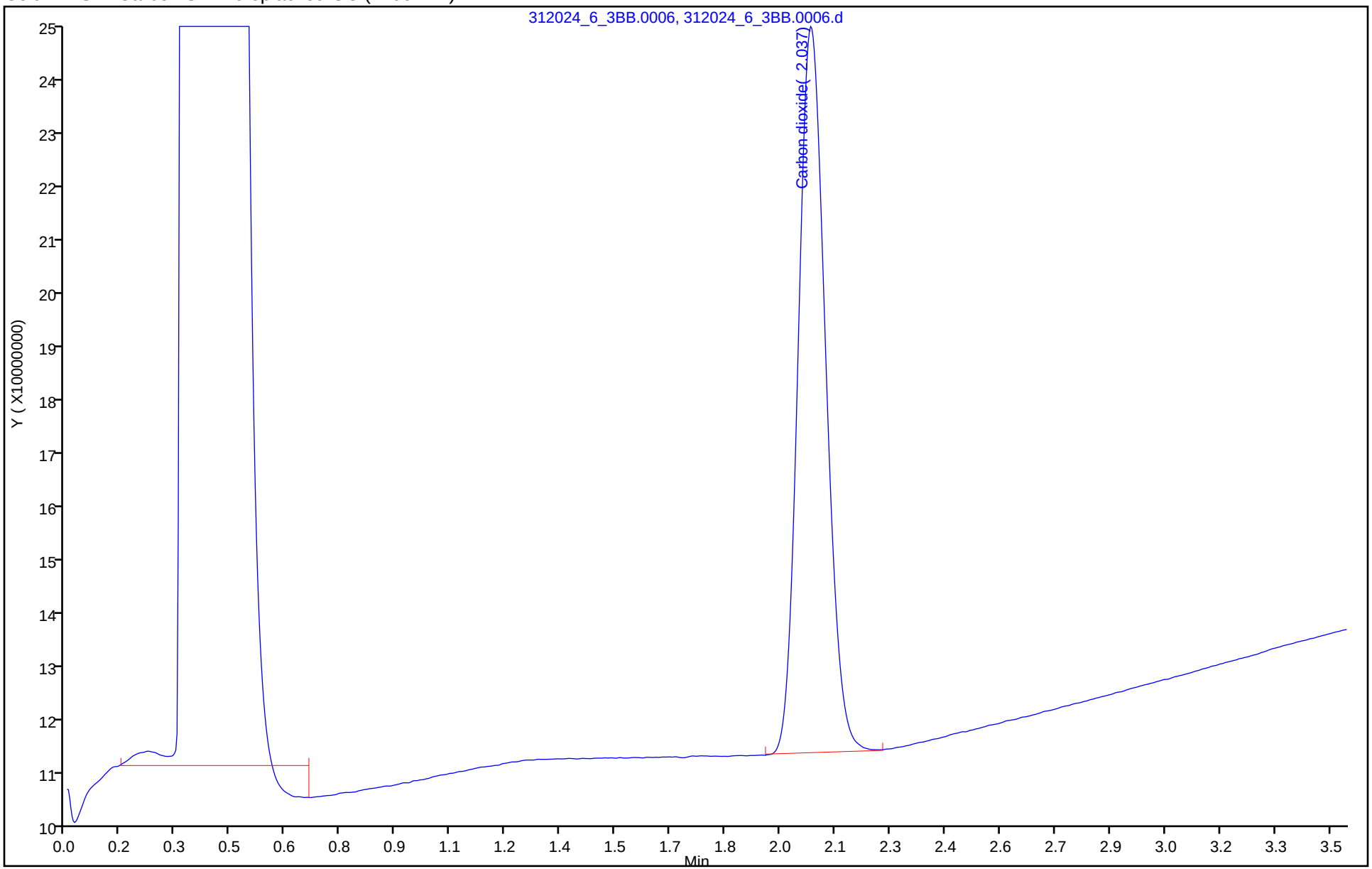
Lims ID: LCS 410-512911/2-A Worklist Smp#: 6

Client ID:

Purge Vol: 1.000 mL Dil. Factor: 1.0000 ALS Bottle#: 0

Method: RSK_CO2_19506B Limit Group: GCV - RSK175 CO2

Column: ShinCarbon ST Microplacked GC (1.00 mm)



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-174036-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 410-513397/2-A

Matrix: Water Lab File ID: 312024_6_4BB.0006.d

Analysis Method: RSK-175 Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 06/04/2024 10:34

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: 19809 ID: 1(mm)

Purge Volume: Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 513353 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
124-38-9	Carbon dioxide	39600		12000	11000	5600

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240604-115704.b\312024_6_4BB.0006.d
Lims ID: LCS 410-513397/2-A
Client ID:
Sample Type: LCS
Inject. Date: 04-Jun-2024 10:34:00 ALS Bottle#: 0 Worklist Smp#: 6
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 410-0115704-006
Operator ID: Instrument ID: 19506-B

Method: \\chromfs\Lancaster\ChromData\19506-B\20240604-115704.b\RSK_CO2_19506B.m
Limit Group: GCV - RSK175 CO2
Last Update: 05-Jun-2024 04:01:19 Calib Date: 29-Apr-2024 16:37:00
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d

Column 1 : ShinCarbon ST Microplacked GC (1.00 mm) Det: 0FIDA
Process Host: CTX1622

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.041	2.042	-0.001	124381000	H 35820	39638	

Report Date: 05-Jun-2024 04:01:20 Chrom Revision: 2.3 20-May-2024 22:00:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240604-115704.b\312024_6_4BB.0006.d

Injection Date: 04-Jun-2024 10:34:00 Instrument ID: 19506-B Operator ID:

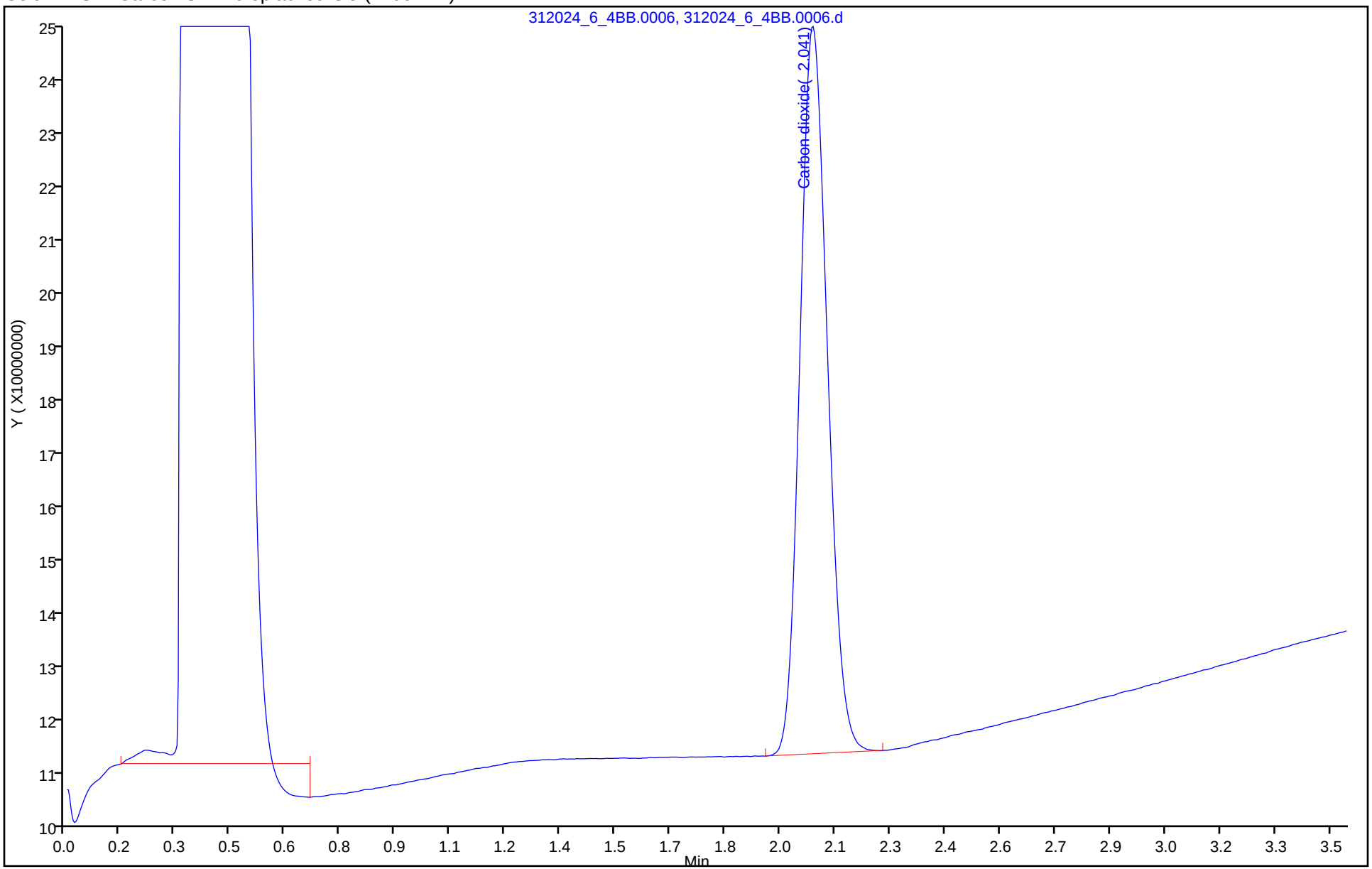
Lims ID: LCS 410-513397/2-A Worklist Smp#: 6

Client ID:

Purge Vol: 1.000 mL Dil. Factor: 1.0000 ALS Bottle#: 0

Method: RSK_CO2_19506B Limit Group: GCV - RSK175 CO2

Column: ShinCarbon ST Microplacked GC (1.00 mm)



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-174036-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 410-513397/3-A

Matrix: Water Lab File ID: 312024_6_4BB.0007.d

Analysis Method: RSK-175 Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 06/04/2024 10:42

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: 19809 ID: 1(mm)

Purge Volume: Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 513353 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
124-38-9	Carbon dioxide	40200		12000	11000	5600

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240604-115704.b\312024_6_4BB.0007.d
Lims ID: LCSD 410-513397/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 04-Jun-2024 10:42:00 ALS Bottle#: 0 Worklist Smp#: 7
Purge Vol: 1.000 mL Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 410-0115704-007
Operator ID: Instrument ID: 19506-B

Method: \\chromfs\Lancaster\ChromData\19506-B\20240604-115704.b\RSK_CO2_19506B.m
Limit Group: GCV - RSK175 CO2
Last Update: 05-Jun-2024 04:01:19 Calib Date: 29-Apr-2024 16:37:00
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19506-B\20240429-112494.b\312024_4_29BB.0013.d

Column 1 : ShinCarbon ST Microplacked GC (1.00 mm) Det: 0FIDA
Process Host: CTX1622

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Carbon dioxide	2.042	2.042	0.000	126231267	H 35820	40228	

Report Date: 05-Jun-2024 04:01:21 Chrom Revision: 2.3 20-May-2024 22:00:34

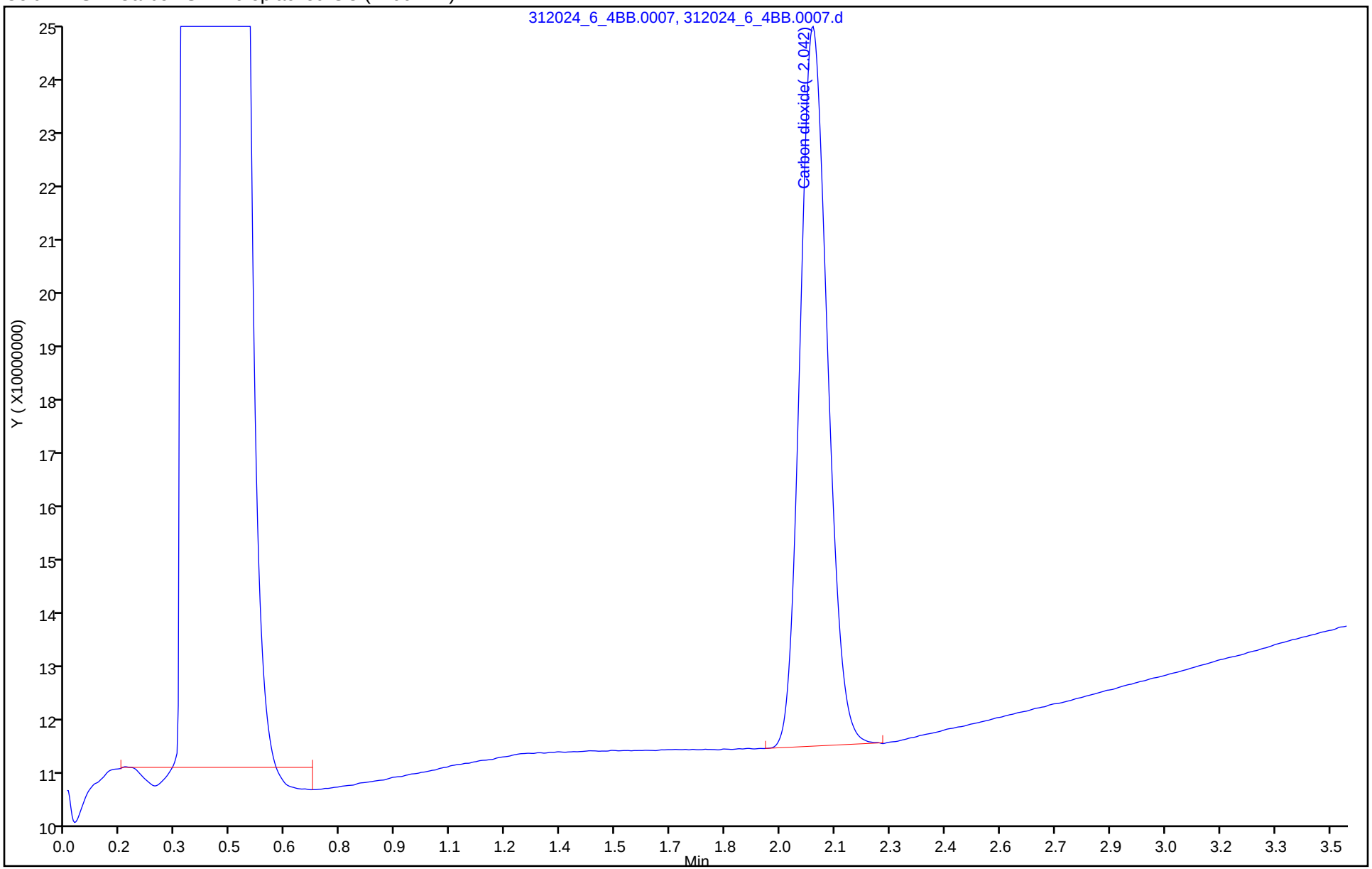
01337505

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19506-B\20240604-115704.b\312024_6_4BB.0007.d

Injection Date:	04-Jun-2024 10:42:00	Instrument ID:	19506-B	Operator ID:	
Lims ID:	LCSD 410-513397/3-A			Worklist Smp#:	7
Client ID:					
Purge Vol:	1.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	RSK_CO2_19506B	Limit Group:	GCV - RSK175 CO2		

Column: ShinCarbon ST Microplacked GC (1.00 mm)



GC VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-174036-1

SDG No.:

Instrument ID: 19506-B Start Date: 04/29/2024 15:50

Analysis Batch Number: 499750 End Date: 04/29/2024 18:35

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
PIBLK 410-499750/7		04/29/2024 15:50	1		19809 1(mm)
IC 410-499750/8		04/29/2024 15:57	1	312024_4_29BB.0008.d	19809 1(mm)
IC 410-499750/9		04/29/2024 16:06	1	312024_4_29BB.0009.d	19809 1(mm)
ICRT 410-499750/10		04/29/2024 16:13	1	312024_4_29BB.0010.d	19809 1(mm)
IC 410-499750/11		04/29/2024 16:21	1	312024_4_29BB.0011.d	19809 1(mm)
IC 410-499750/12		04/29/2024 16:29	1	312024_4_29BB.0012.d	19809 1(mm)
IC 410-499750/13		04/29/2024 16:37	1	312024_4_29BB.0013.d	19809 1(mm)
PIBLK 410-499750/14		04/29/2024 16:45	1		19809 1(mm)
ICVL 410-499750/15		04/29/2024 16:53	1		19809 1(mm)
ICV 410-499750/16		04/29/2024 17:01	1	312024_4_29BB.0016.d	19809 1(mm)
CCV 410-499750/17		04/29/2024 17:09	1		19809 1(mm)
ZZZZZ		04/29/2024 17:17	1		19809 1(mm)
ZZZZZ		04/29/2024 17:24	1		19809 1(mm)
ZZZZZ		04/29/2024 17:32	1		19809 1(mm)
CCV 410-499750/28		04/29/2024 18:35	1		19809 1(mm)

GC VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-174036-1

SDG No.:

Instrument ID: 19506-B Start Date: 06/03/2024 09:57

Analysis Batch Number: 512895 End Date: 06/03/2024 16:03

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVRT 410-512895/4		06/03/2024 09:57	1	312024_6_3BB.0004.d	19809 1(mm)
MB 410-512911/1-A		06/03/2024 10:18	1	312024_6_3BB.0005.d	19809 1(mm)
LCS 410-512911/2-A		06/03/2024 10:26	1	312024_6_3BB.0006.d	19809 1(mm)
410-174036-1	35AWW19_052324	06/03/2024 11:00	1	312024_6_3BB.0007.d	19809 1(mm)
410-174036-2	LHSMW07_052324	06/03/2024 11:07	1	312024_6_3BB.0008.d	19809 1(mm)
ZZZZZ		06/03/2024 11:16	1		19809 1(mm)
ZZZZZ		06/03/2024 11:23	1		19809 1(mm)
410-174036-5	35AWW23_052324	06/03/2024 11:31	1	312024_6_3BB.0011.d	19809 1(mm)
410-174036-6	35AWW06_052324	06/03/2024 11:39	1	312024_6_3BB.0012.d	19809 1(mm)
ZZZZZ		06/03/2024 11:47	1		19809 1(mm)
ZZZZZ		06/03/2024 11:55	1		19809 1(mm)
CCV 410-512895/15		06/03/2024 12:02	1	312024_6_3BB.0015.d	19809 1(mm)
ZZZZZ		06/03/2024 12:23	1		19809 1(mm)
ZZZZZ		06/03/2024 12:30	1		19809 1(mm)
ZZZZZ		06/03/2024 12:39	1		19809 1(mm)
ZZZZZ		06/03/2024 12:46	1		19809 1(mm)
ZZZZZ		06/03/2024 12:54	1		19809 1(mm)
ZZZZZ		06/03/2024 13:02	1		19809 1(mm)
ZZZZZ		06/03/2024 13:10	1		19809 1(mm)
CCV 410-512895/23		06/03/2024 13:17	1		19809 1(mm)
ZZZZZ		06/03/2024 13:25	1		19809 1(mm)
ZZZZZ		06/03/2024 13:33	1		19809 1(mm)
ZZZZZ		06/03/2024 13:41	1		19809 1(mm)
ZZZZZ		06/03/2024 13:49	1		19809 1(mm)
ZZZZZ		06/03/2024 13:57	1		19809 1(mm)
ZZZZZ		06/03/2024 14:05	1		19809 1(mm)
ZZZZZ		06/03/2024 14:12	1		19809 1(mm)
ZZZZZ		06/03/2024 14:20	1		19809 1(mm)
ZZZZZ		06/03/2024 14:28	1		19809 1(mm)
ZZZZZ		06/03/2024 14:41	1		19809 1(mm)
CCV 410-512895/34		06/03/2024 14:49	1		19809 1(mm)
ZZZZZ		06/03/2024 14:57	1		19809 1(mm)
ZZZZZ		06/03/2024 15:05	1		19809 1(mm)
ZZZZZ		06/03/2024 15:13	1		19809 1(mm)
ZZZZZ		06/03/2024 15:22	1		19809 1(mm)
ZZZZZ		06/03/2024 15:30	1		19809 1(mm)
ZZZZZ		06/03/2024 15:38	1		19809 1(mm)
ZZZZZ		06/03/2024 15:46	1		19809 1(mm)
ZZZZZ		06/03/2024 15:54	1		19809 1(mm)
CCV 410-512895/43		06/03/2024 16:03	1		19809 1(mm)

RSK-175

GC VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-174036-1

SDG No.:

Instrument ID: 19506-B Start Date: 06/04/2024 10:15

Analysis Batch Number: 513353 End Date: 06/04/2024 12:37

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVRT 410-513353/4		06/04/2024 10:15	1	312024_6_4BB.0004.d	19809 1(mm)
MB 410-513397/1-A		06/04/2024 10:27	1	312024_6_4BB.0005.d	19809 1(mm)
LCS 410-513397/2-A		06/04/2024 10:34	1	312024_6_4BB.0006.d	19809 1(mm)
LCSD 410-513397/3-A		06/04/2024 10:42	1	312024_6_4BB.0007.d	19809 1(mm)
ZZZZZ		06/04/2024 10:50	1		19809 1(mm)
ZZZZZ		06/04/2024 10:58	1		19809 1(mm)
ZZZZZ		06/04/2024 11:06	1		19809 1(mm)
ZZZZZ		06/04/2024 11:14	1		19809 1(mm)
ZZZZZ		06/04/2024 11:21	1		19809 1(mm)
ZZZZZ		06/04/2024 11:29	1		19809 1(mm)
ZZZZZ		06/04/2024 11:37	1		19809 1(mm)
CCV 410-513353/15		06/04/2024 11:45	1	312024_6_4BB.0015.d	19809 1(mm)
ZZZZZ		06/04/2024 12:13	1		19809 1(mm)
410-174036-3	35AWW20_052324	06/04/2024 12:21	10	312024_6_4BB.0017.d	19809 1(mm)
410-174036-4	35AWW11_052324	06/04/2024 12:29	10	312024_6_4BB.0018.d	19809 1(mm)
CCV 410-513353/19		06/04/2024 12:37	1	312024_6_4BB.0019.d	19809 1(mm)

GC VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-174036-1

SDG No.:

Batch Number: 499750 Batch Start Date: 04/29/24 15:50 Batch Analyst: Kennedy, Johanna C

Batch Method: RSK-175 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	EPH_CO2ICV 00003	EPH_CO2MS 00006		
IC 410-499750/8		RSK-175			5 mL	5 mL		30 uL		
IC 410-499750/9		RSK-175			5 mL	5 mL		60 uL		
ICRT 410-499750/10		RSK-175			5 mL	5 mL		100 uL		
IC 410-499750/11		RSK-175			5 mL	5 mL		250 uL		
IC 410-499750/12		RSK-175			5 mL	5 mL		500 uL		
IC 410-499750/13		RSK-175			5 mL	5 mL		1000 uL		
ICV 410-499750/16		RSK-175			5 mL	5 mL	320 uL			

Batch Notes	
Henry Law Calculation Spreadsheet	yes

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-174036-1

SDG No.:

Batch Number: 512911 Batch Start Date: 06/03/24 09:53 Batch Analyst: Omorogbe, Malachi

Batch Method: RSK-175 Batch End Date: 06/03/24 10:50

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	Initial pH	InitialAmount	FinalAmount	Headspace	EPH_CO2MS 00006	AnalysisComment
MB 410-512911/1		RSK-175, RSK-175				5 mL	5 mL			
LCS 410-512911/2		RSK-175, RSK-175				5 mL	5 mL		0.1 mL	
410-174036-A-1	35AWW19_052324	RSK-175, RSK-175	Water	T	6 SU	5 mL	5 mL	No		ph 6
410-174036-A-2	LHSMW07_052324	RSK-175, RSK-175	Water	T	7 SU	5 mL	5 mL	No		
410-174036-A-5	35AWW23_052324	RSK-175, RSK-175	Water	T	7 SU	5 mL	5 mL	No		
410-174036-A-6	35AWW06_052324	RSK-175, RSK-175	Water	T	7 SU	5 mL	5 mL	No		

Batch Notes	
Pipette/Syringe/Dispenser ID	7105
pH Indicator ID	10BDH5131

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-174036-1

SDG No.:

Batch Number: 513397 Batch Start Date: 06/04/24 10:14 Batch Analyst: Omorogbe, Malachi

Batch Method: RSK-175 Batch End Date: 06/04/24 10:37

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	Initial pH	InitialAmount	FinalAmount	Headspace	EPH_CO2MS 00006	AnalysisComment
MB 410-513397/1		RSK-175, RSK-175				5 mL	5 mL			
LCS 410-513397/2		RSK-175, RSK-175				5 mL	5 mL		0.1 mL	
LCSD 410-513397/3		RSK-175, RSK-175				5 mL	5 mL		0.1 mL	
410-174036-B-3	35AWW20_052324	RSK-175, RSK-175	Water	T	6 SU	5 mL	5 mL	No		DF10. ph 6
410-174036-B-4	35AWW11_052324	RSK-175, RSK-175	Water	T	6 SU	5 mL	5 mL	No		DF10. ph 6

Batch Notes	
Pipette/Syringe/Dispenser ID	7105
pH Indicator ID	10BDH5131

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

410-174036 Chain of Custody

10450 Stancliff Rd, Ste 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

Subcontract Chain of Custody

SAMPLING STATE: **Texas** **COC ID:** **25841**

SUBCONTRACT TO:

Eurofins Lancaster Laboratories Envt Testing
2425 New Holland Pike
Lancaster, PA 17601 **Phone:** +1 717 656 2300

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	Luis.Aguilar
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	luis.aguilar@alsglobal.com
Alternate Contact:	Jumoke M. Lawal
Email:	jumoke.lawal@alsglobal.com

INVOICE INFORMATION:

Company:	ALS Houston
Contact:	Accounts Payable
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Reference:	HS24051535
TSR:	Sonia West

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS24051535-01**	**35AWW19_052324**	**Groundwater**	**23 May 2024 07:40**
	RSK-CO2; Level II & IV, DoD, Equ_APTIM_Longhorn			10 Jun 2024
2.	**HS24051535-02**	**LHSMW07_052324**	**Groundwater**	**23 May 2024 08:30**
	RSK-CO2; Level II & IV, DoD, Equ_APTIM_Longhorn			10 Jun 2024
3.	**HS24051535-03**	**35AWW20_052324**	**Groundwater**	**23 May 2024 09:20**
	RSK-CO2; Level II & IV, DoD, Equ_APTIM_Longhorn			10 Jun 2024
4.	**HS24051535-04**	**35AWW11_052324**	**Groundwater**	**23 May 2024 10:10**
	RSK-CO2; Level II & IV, DoD, Equ_APTIM_Longhorn			10 Jun 2024
5.	**HS24051535-05**	**35AWW23_052324**	**Groundwater**	**23 May 2024 11:00**
	RSK-CO2; Level II & IV, DoD, Equ_APTIM_Longhorn			10 Jun 2024
6.	**HS24051535-06**	**35AWW06_052324**	**Groundwater**	**23 May 2024 11:50**
	RSK-CO2; Level II & IV, DoD, Equ_APTIM_Longhorn			10 Jun 2024

Comments: Please analyze for the analysis listed above.
Send report to the emails shown above.

QC Level: DOD IV (DoD Data Package)

NJ

Subcontract Chain of Custody

SAMPLING STATE: ~~Texas~~ **COC ID: 25841**

Relinquished By: _____ Date/Time: 5/30/24 1900

Received By: _____ Date/Time: 5/31/24 1015

Cooler ID(s): _____ Temperature(s): R: 4.0 C: 3.7

NJ

Login Sample Receipt Checklist

Client: ALS Group USA, Corp

Job Number: 410-174036-1

Login Number: 174036
List Number: 1
Creator: Santiago, Nathaniel

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	True	

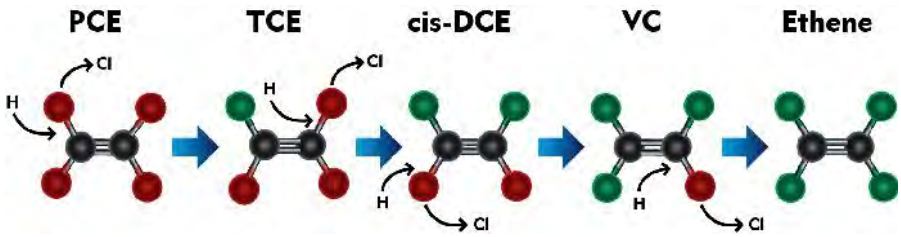
HS24051535 Microbial Insights Lab Sub Data Report

ALS WO# HS24051535

DHC Interpretation

Dehalococcoides 16S rRNA gene (qDHC)

Under anaerobic conditions, tetrachloroethene (PCE) and trichloroethene (TCE) can undergo sequential reductive dechlorination through the daughter products *cis*-dichloroethene (*cis*-DCE) and vinyl chloride to nontoxic ethene (1,2).



While a number of bacterial cultures capable of utilizing PCE and TCE as growth supporting electron acceptors have been isolated (3-7), *Dehalococcoides* spp. may be the most important because they are the only bacterial group that has been isolated to date which is capable of complete reductive dechlorination of PCE to ethene (8). In fact, the presence of *Dehalococcoides* spp. has been associated with complete dechlorination to ethene at sites across North America and Europe (9).

Status	*Dehalococcoides spp.*	Observation
	**≥ 10^4** (cells/mL)	Lu et al. proposed that a concentration of 1 x 10^4 DHC cells/mL could be used as a screening criterion to identify sites where reductive dechlorination will yield a generally useful biodegradation rate (10). Similarly, in an internal study conducted with nearly 1000 groundwater samples obtained from sites across the US, ethene production was observed in approximately 80% of samples in which CENSUS® qDHC results were greater than or equal to 10^4 DHC cells/mL.
	**10^1 to < 10^4** (cells/mL)	When vinyl chloride reductase genes (See DHC functional genes discussion below) are also detected, complete reductive dechlorination of PCE and TCE to ethene may still occur even with moderate DHC concentrations. When the DHC population is below the 10^4 cells/mL criterion proposed by Lu et al. (10), project managers should carefully consider other site-specific data to determine whether subsurface conditions may be limiting reductive dechlorination. For example, the addition of an electron donor may be able to stimulate DHC growth and enhance anaerobic bioremediation.
	**< 10^1** (cells/mL)	DHC concentrations are low suggesting that complete reductive dechlorination of PCE and TCE to ethene is unlikely to occur under existing conditions. Enhanced anaerobic bioremediation options (biostimulation or bioaugmentation) may need to be considered.

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DHC Functional Genes (*tce*A, *bvc*A, *vcr*A)

A "stall" where daughter products *cis*-DCE and vinyl chloride accumulate can occur at PCE- and TCE-impacted sites especially under MNA conditions. The accumulation of vinyl chloride, generally considered more carcinogenic than the parent compounds, is particularly problematic. Although elevated *Dehalococcoides* concentrations correspond to ethene production in numerous studies, the range of chlorinated ethenes metabolized and cometabolized varies among species and strains within the *Dehalococcoides* genus. For example, *Dehalococcoides ethenogenes* str. 195 metabolizes PCE, TCE, and *cis*-DCE and cometabolizes vinyl chloride (8) to produce ethene. Conversely, *Dehalococcoides* sp. CBDB1 utilizes PCE and TCE but does not cometabolize additional chloroethenes (11). Other *Dehalococcoides* strains, such as BAV1, GT and VS, are known to fully dechlorinate cis-DCE and VC to ethene (14,16,19). Quantification of reductive dehalogenase genes is used to more definitively confirm the potential for reductive dechlorination of TCE, cis-DCE, and vinyl chloride (12-15).

Functional Gene	Observation
TCE Reductase	
***tce*A gene**	The *tce*A gene encodes the enzyme responsible for reductive dechlorination of TCE to *cis*-DCE in some strains of *Dehalococcoides*. Absence of *tce*A does not preclude the potential for reductive dechlorination of TCE in the field since the *tce*A gene is not universally distributed among all DHC and is not present in other microorganisms capable of reductive dechlorination of TCE (e.g. *Dehalobacter*). Detection of the *tce*A gene provides an additional line of evidence indicating the potential for dechlorination of TCE.
Vinyl Chloride Reductase	
***bvc*A gene**	The *bvc*A gene encodes the vinyl chloride reductase enzyme responsible for reductive dechlorination of vinyl chloride to ethene by *Dehalococcoides* sp. str. BAV1 (16). Presence of *bvc*A gene indicates the potential for reductive dechlorination of VC to ethene. Absence of both *bvc*A and *vcr*A genes suggests VC may accumulate. An internal study with ~1,000 samples showed ethene production was observed in 80% of the samples that the DHC population was greater than or equal to 10^4 cells/mL. The *bvc*A gene was detected in over 50% of these samples. Van Der Zaan et al (17) noted that the bvcA gene was the only VC reductase gene detected at three of their sites. Alfred Spormann's laboratory at Stanford University (18) reported that the *bvc*A gene was the most abundant and active at the outflow of a PCE fed column study. This section of the column was in the DCE to VC stages of reductive dechlorination thus confirming the importance of the *bvc*A gene for complete reductive dechlorination.
***vcr*A gene**	The *vcr*A gene encodes the vinyl chloride reductase enzyme responsible for reductive dechlorination of *cis*-DCE and vinyl chloride by *Dehalococcoides* sp. strain VS (14). Presence of *vcr*A gene indicates the potential for reductive dechlorination of DCE and/or VC to ethene. Absence of both *bvc*A and *vcr*A genes suggest VC may accumulate. As with the *bvc*A gene, detection of the *vcr*A gene is associated with ethene production in internal studies (67%) and vinyl chloride reduction in independent studies (14, 17).

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DHC Interpretation

Reporting

Microbial Insights can provide a variety of data packages and reporting levels to suit the needs of any project. Data packages range from simple analytical reports with results only to more complex data packages that include a report narrative, analytical results, QC data, and supporting materials including all raw data and chain-of-custody documentation. The figure below shows our standard report and explains the way values are reported.

Microbial Insights, Inc.

2340 Stock Creek Blvd. Rockford, TN 37853-3044
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CENSUS

Client: Company Name
Project: Your Project Name

MI Project Number: Unique Laboratory Identifier
Date Received: Date Samples Arrived

Sample Information

Client Sample ID:		Sample A	Sample B	Sample C
Sample Date:		00/00/0000	00/00/0000	00/00/0000
Units:		cells/mL	cells/mL	cells/mL
Analyst:		Intials	Intials	Intials
Dechlorinating Bacteria				
Dehalococcoides spp.	DHC	**1.84E+05**	**2.76E+02**	**2.28E+01 (J)**
Functional Genes				
tceA Reductase	TCE	**6.00E+01**	**3.23E+01**	<4.00E-01
bvcA Reductase	BVC	**1.17E+04**	**1.81E+01**	<4.00E-01
vcrA Reducatase	VCR	**8.42E+04**	**1.74E+02**	<4.00E-01

Legend:
NA = Not Analyzed NS = Not Sampled J = Estimated gene copies below PQL but above LQL I = Inhibited
< = Result not detected

"J" value
Result is an estimated value. This data qualifier (flag) is used when the target gene is detected but at a concentration or abundance below the practical quantification limit (PQL).

< value
The target gene was not detected at the limit of quantitation (LOQ) reported for that sample.

"I" value
QA Procedure indicated that the sample may have exhibited PCR inhibition. Although relatively rare, PCR inhibition can occur due to the presence of metals or humic acids at high concentrations in the sample.

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Quality Assurance

Microbial Insights' comprehensive Quality Assurance (QA) Program is the foundation of all laboratory analyses, ensuring that our clients receive high-quality analytical services that are timely, reliable, and meet their intended purpose in a cost effective manner. MI is committed to providing quality data that surpasses regulatory and industry standards, thus enabling the client to make well-informed decisions. MI maintains strict standard operating procedures and QA/QC measures throughout all of the analyses offered. The following Table details specific QA/QC procedures that are used for CENSUS.

QA/QC	Description
Date of Extraction	DNA and RNA extractions are performed the day the samples are received by MI to minimize the possibility of any changes to the microbial community prior to analysis.
Laboratory Method Blanks	An extraction blank (no sample added) is processed alongside each set of field samples from DNA extraction through CENSUS® analysis to ensure that cross contamination has not occurred. Although MI has never experienced this issue, the detection of the CENSUS® target (e.g. *Dehalococcoides*) in an extraction blank is direct evidence of cross contamination with a sample or contamination of a reagent and would invalidate the results. If this were to occur, MI would re-extract the sample. If not possible to re-extract, MI would contact the client immediately and notate it on the laboratory report.
Laboratory Control Samples (LCS)	A laboratory control sample (LCS) or positive control (target DNA) is included with each CENSUS® plate to confirm amplification and as a continuing calibration check.
Negative Controls	A negative control (no DNA) is included with each CENSUS plate to ensure that cross contamination has not occurred during amplification. As with the extraction blank, detection of CENSUS target (e.g. DHC) in a negative control is direct evidence of contamination and would invalidate the results. If this were to occur, MI would rerun the analysis.

References

1. Freedman, D. L. and J. M. Gossett. 1989. Biological reductive dechlorination of tetrachloroethylene and trichloroethylene to ethylene under methanogenic conditions. Applied and Environmental Microbiology 55(9): 2144-2151.

2. DiStefano, T. D., J.M. Gossett, and S.H. Zinder. 1991. Reductive dechlorination of high concentrations of tetrachlorethene to ethene by an anaerobic enrichment culture in the absence of methanogenesis. Applied and Environmental Microbiology 57(8): 2287-2292.

3. Gerritse, J., V. Renard, T. M. Pedro Gomes, P. A. Lawson, M. D. Collins, and J. C. Gottschal. 1996. *Desulfitobacterium* sp. Strain PCE1, an anaerobic bacterium that can grow by reductive dechlorination of tetrachloroethene or ortho-chlorinated phenols. Archives of Microbiology 165(2): 132-140.

4. Gerritse, J., O. Drzyzga, G. Kloetstra, M. Keijmel, L. P. Wiersum, R. Hutson, M. D. Collins, and J. C. Gottschal. 1999. Influence of different electron donors and acceptors on dehalorespiration of tetrachloroethene by *Desulfitobacterium frappieri* TCE1. Applied and Environmental Microbiology 65(12): 5212-5221.

5. Holliger, C., G. Schraa, A.J.M. Stams, and A.J.B. Zehnder. 1993. A highly purified enrichment culture couples the reductive dechlorination of tetrachloroethene to growth. Applied and Environmental Microbiology 59 (9): 2991-2997.

6. Krumholz, L. R., R. Sharp, and S. S. Fishbain. 1996. A freshwater anaerobe coupling acetate oxidation to tetrachloroethylene dehalogenation. Applied and Environmental Microbiology 62(11): 4108-4113.

7. Löffler, F.E., R.A. Sanford, and J.M. Tiedje. 1996. Initial characterization of a reductive dehalogenase from *Desulfitobacterium chlororespirans* Co23. Applied and Environmental Microbiology 62(10): 3809–3813.

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8. Maymó-Gatell, X., T. Anguish, and S.H. Zinder. 1999. Reductive dechlorination of chlorinated ethenes and 1,2-dichloroethane by *Dehalococcoides ethenogenes* 195. Applied and Environmental Microbiology 65(7): 3108–3113.

9. Hendrickson, E.R., J. Payne, R.M. Young, M.G. Starr, M.P. Perry, S. Fahnestock, D.E. Ellis, and R.C. Eversole. 2002. Molecular analysis of *Dehalococcoides* 16S ribosomal DNA from chloroethene-contaminated sites throughout North America and Europe. Applied and Environmental Microbiology 68(2): 485-495.

10. Lu, X., J.T. Wilson, and D.H. Kampbell. 2006. Relationship between *Dehalococcoides* DNA in ground water and rates of reductive dechlorination at field scale. Water Research 40:3131-3140.

11. Adrian, L, U. Szewzyk, J. Wecke, and H. Görisch. 2000. Bacterial dehalorespiration with chlorinated benzenes. Nature 408(6812): 580-583.

12. Holmes, V.F., J. He, P.K.H. Lee, and L. Alvarez-Cohen. 2006. Discrimination of multiple *Dehalococcoides* strains in a trichlorethene enrichment by quantification of their reductive dehalogenase genes. Applied and Environmental Microbiology 72(9): 5877-5883.

13. Lee, P.K.H., D.R. Johnson, V.F. Holmes, J. He, and L. Alvarez-Cohen. 2006. Reductive dehalogenase gene expression as a biomarker for physiological activity of *Dehalococcoides* spp. Applied and Environmental Microbiology 72(9): 6161-6168.

14. Müller, J.A., B.M. Rosner, G. von Avendroth, G. Meshulam-Simon, P.L. McCarty, and A.M. Spormann. 2004. Molecular identification of the catabolic vinyl chloride reductase from *Dehalococcoides* sp. strain VS and its environmental distribution. Applied and Environmental Microbiology 70(8): 4880-4888.

15. Ritalahti, K.M., B.K. Amos, Y. Sung, Q. Wu, S.S. Koenigsberg, and F.E. Löffler. 2006. Quantitative PCR targeting 16S rRNA and reductive dehalogenase genes simultaneously monitors multiple *Dehalococcoides* strains. Applied and Environmental Microbiology 72(4): 2765-2774.

16. Krajmalnik-Brown, R., T. Hölscher, I. N. Thomson, F. M. Saunders, K. M. Ritalahti, and F. E. Löffler. 2004. Genetic identification of a putative vinyl chloride reductase in *Dehalococcoides* sp. strain BAV1. Applied and Environmental Microbiology 70:6347–6351.

17. van der Zaan, B., F. Hannes, N. Hoekstra, H. Rijnaarts, W.M. de Vos, H. Smidt, and J. Gerritse. 2010. Correlation of *Dehalococcoides* 16S rRNA and chlorethene-reductive dehalogenase genes with geochemical conditions in chloroethene-contaminated groundwater. Applied and Environmental Microbiology 76(3):843-850.

18. Behrens, S., M.F., Azizian, P.J. McMurdie, A. Sabalowsky, M.E. Dolan, L. Semprini, and A.M. Spormann. 2008. Monitoring abundance and expression of *Dehalococcoides* species chloroethene-reductive dehalogenases in a tetrachloroethene-dechlorinating flow column. Applied and Environmental Microbiology 74(18):5695-5703.

19. Sung, Y., K. M. Ritalahti, R. P. Apkarian, and F. E. Löffler. 2006. Quantitative PCR confirms purity of strain GT, a novel trichloroethene (TCE)-to-ethene respiring Dehalococcoides isolate. Appl. Environ. Microbiol. 72:1980-1987

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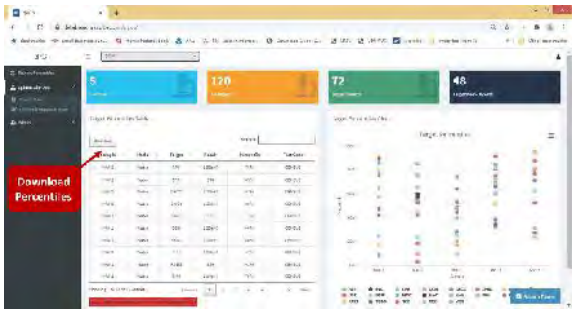
How to Retrieve and Use Percentile Ranks from the Microbial Insights Database

The MI Database

The Microbial Insights Database is the largest collection of field concentrations of key microorganisms and functional genes currently containing qPCR and QuantArray results for more than 100,000 unique groundwater, soil, and sediment samples from all 50 states and 33 countries worldwide.

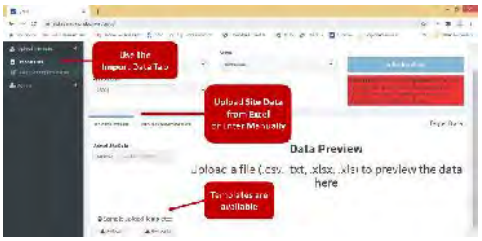
Is that low, medium or high?

In practice, biodegradation depends not just on the presence but the actual concentrations of the contaminant degrading microorganisms. The percentile ranks retrieved from the MI Database answer the question "Is that low, medium or high?" by comparing your results to those of the literally thousands of other environmental samples submitted to MI for analysis.



Retrieving Estimated Percentile Ranks

When you receive your report, you will be emailed a link enabling you to login to the Microbial Insights Database. Click the link and use the Upload Site Data Tab to enter basic information about the sample (e.g. contaminant concentrations) to aid in understanding the links between environmental conditions and microbial populations. Once the site data is entered, you will be able to retrieve the percentile ranks of your results based on those compiled in the MI database at no additional charge.



All site specific data is treated as confidential and uploading is easy.

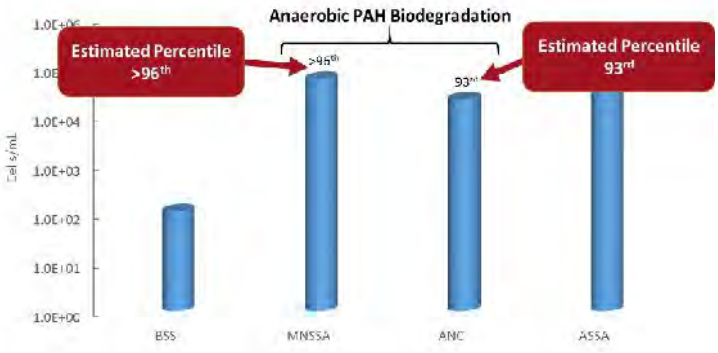
You can even upload chemical and geochemical data from EDDs. Just save as a Tab Delimited text file.

Example - Using Estimated Percentile for MNA Assessment at an MGP Site

CENSUS® qPCR was performed to quantify anaerobic naphthalene carboxylase (ANC) and naphthyl-2-methylsuccinate synthase (MNSSA) to assess anaerobic biodegradation of naphthalene and methyl-naphthalene under existing site conditions.

- Not only were ANC and MNSSA genes detected, but these functional genes responsible for anaerobic biodegradation of PAHs were present at high concentrations based on the percentile ranks.

- Demonstrating high concentrations of ANC and MNSSA gave an additional line of evidence indicating growth substantial populations of anaerobic PAH degraders and suggested a greater probability that monitored natural attenuation (MNA) will be successful.



How to Use Estimated Percentile Ranks from the Microbial Insights Database

The MI Database and Client Portal

The Microbial Insights Database is the largest collection of field concentrations of key microorganisms and functional genes currently containing qPCR and QuantArray results for more than 100,000 unique groundwater, soil, and sediment samples from all 50 states and 33 countries worldwide. Driven by field samples, the database reflects the impacts of common contaminants, geochemical conditions, and site management practices on critical microbial populations.

With your report, you received a passcode enabling you to retrieve estimates of the percentile ranks of your results based on those compiled in the MI database at no additional charge. When accessing the database, you will be asked to provide background information about the sample (e.g. contaminant concentrations) to aid in understanding the links between environmental conditions and microbial populations. As with all client information provided to MI, site specific data will be treated as confidential.

Is that low, medium or high?

In practice, biodegradation depends not just on the presence but the actual concentrations of the contaminant degrading microorganisms. Simply put, qPCR and QuantArray results demonstrating high concentrations of target microorganisms or functional genes suggest in situ selection, enrichment and growth of those specific contaminant degraders and therefore a greater probability that monitored natural attenuation (MNA) or bioremediation will be successful.

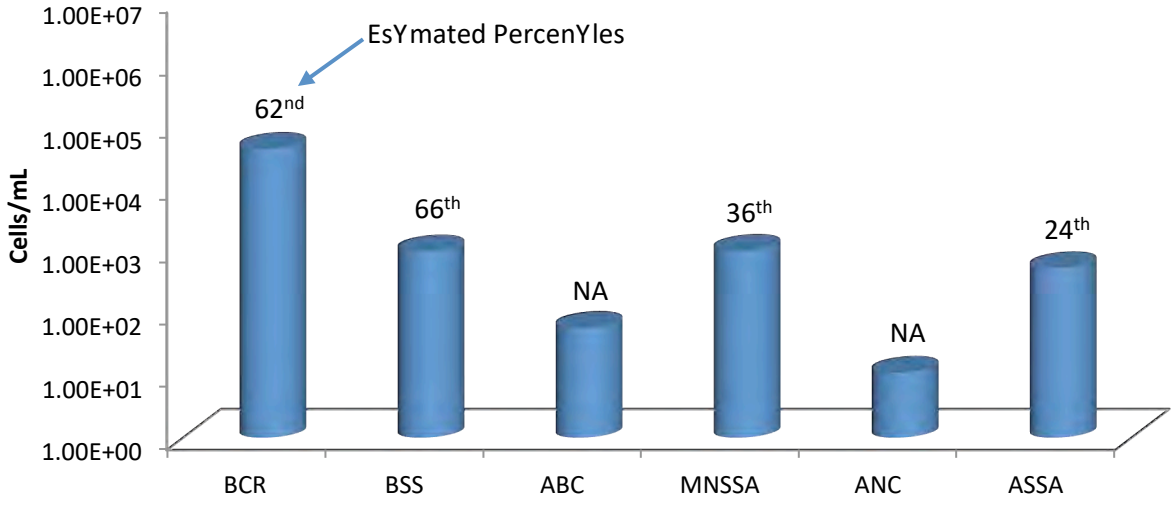
Is that a low, medium, or high concentration? The estimated percentile ranks retrieved from the MI Database answer that question by comparing your qPCR and QuantArray results to those of the literally thousands of other environmental samples submitted to MI for analysis over the last 20+ years.

Using the Estimated Percentile - Interpretation Examples

MNA Assessment – Petroleum Hydrocarbon Site:

Whenever possible, interpretation of qPCR and QuantArray results should include comparisons between samples obtained from background and impacted wells. The estimated percentile ranks however provide an additional avenue for comparison and evaluation of treatment options as shown below.

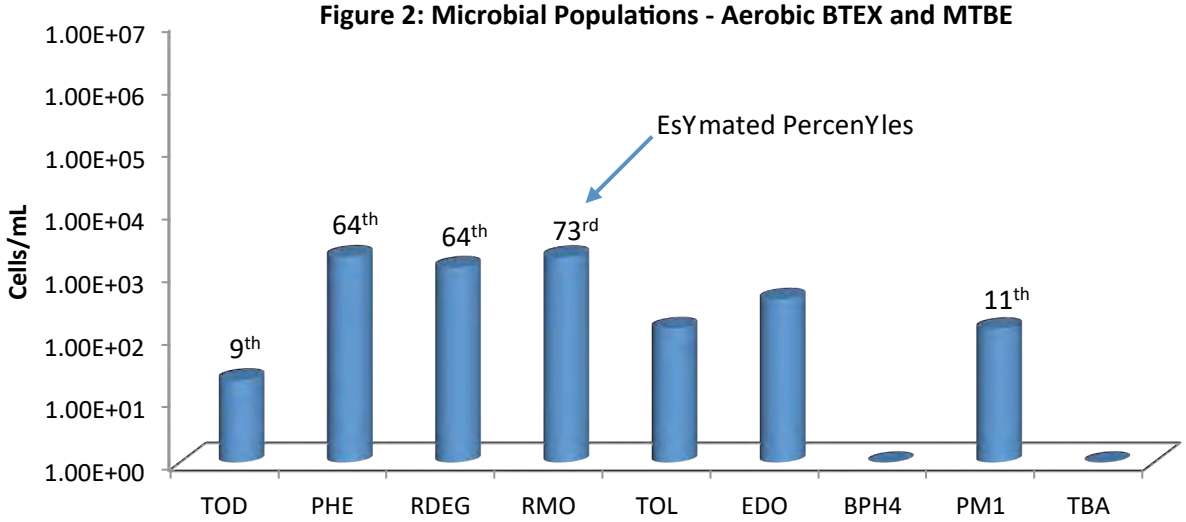
Figure 1: Microbial Populations - Anaerobic BTEX and PAHs



Anaerobic BTEX and PAH Biodegradation (Figure 1):

- With moderate concentrations of functional genes involved in anaerobic BTEX metabolism detected, the QuantArray-Petro® results were encouraging in terms of evaluating biodegradation potential under existing site conditions.
- More specifically, benzylsuccinate synthase (BSS) was detected on the order of nearly 10^3 cells/mL indicating the presence of a substantial population (66^{th} percentile) capable of anaerobic biodegradation of toluene and other alkyl substituted benzenes.
- Naphthyl-2-methylsuccinate synthase (MNSSA) and alkylsuccinate synthase (ASSA) genes were also detected indicating the potential for anaerobic biodegradation of 2-methylnaphthalene and normal alkanes.
- The concentration of MNSSA genes would be considered modest with an estimated percentile of 36^{th}.
- While the percentile rank for MNSSA would be "below average", a number of additional factors should be considered.
    - First, anaerobic hydrocarbon degraders are less prevalent than aerobic BTEX degraders and overall detection frequencies for many genes involved in anaerobic hydrocarbon biodegradation are less than 50%.
    - Therefore, the detection of genes like BSS, MNSSA, ASSA, anaerobic benzene carboxylase (ABC), and anaerobic naphthalene carboxylase (ANC) even at low concentrations is certainly noteworthy and inherently "better than average".
    - The estimated percentiles for all assays are based only on samples where the concentration of the target gene was greater than the practical quantitation limit (PQL).
    - For less commonly detected targets like many of the genes involved in anaerobic hydrocarbon biodegradation this is an especially important consideration.
    - Excluding samples where a gene target is below the PQL ensured that the median concentrations of less commonly detected targets would not be unduly biased low by the fact that the gene is not detected in most samples.
- Anaerobic benzene carboxylase (ABC) and naphthalene carboxylase (ANC) genes were also detected indicating the presence of bacterial populations capable of anaerobic biodegradation of benzene and naphthalene.
- For newly identified genes like ABC and ANC, estimated percentile ranks are not yet available due to the limited number of field samples that have been analyzed to date.
- However, like MNSSA and other genes involved in anaerobic hydrocarbon biodegradation, ABC and ANC detection frequencies are relatively low so the detection of these genes even at low concentrations should be considered when evaluating biodegradation potential under existing site conditions.

Figure 2: Microbial Populations - Aerobic BTEX and MTBE



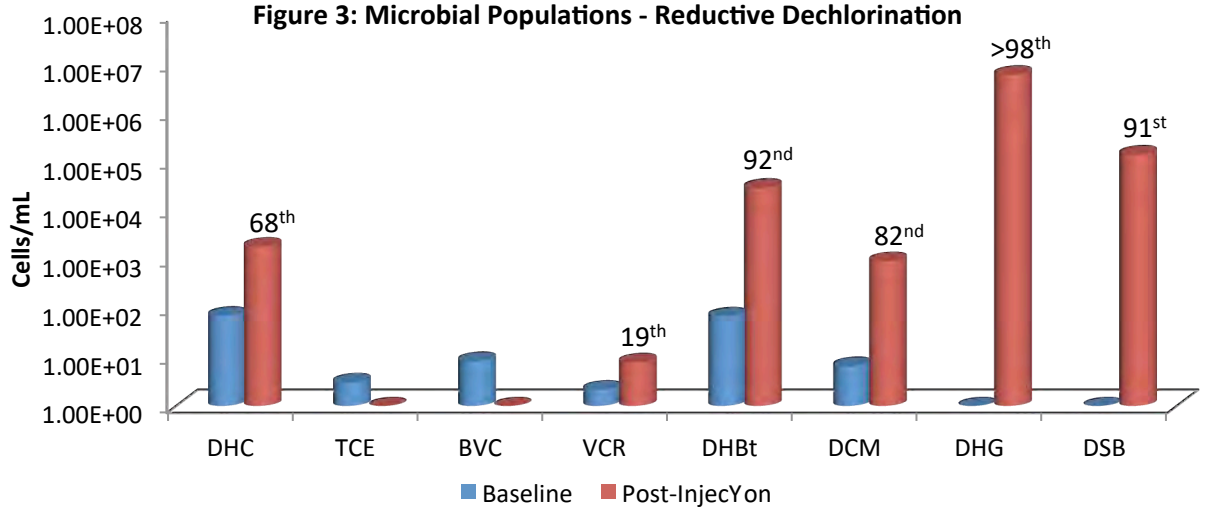
Aerobic BTEX and MTBE Biodegradation (Figure 2):

- With growing evidence that aromatic oxygenases function at low dissolved oxygen concentrations, aerobic BTEX biodegradation pathways should also be evaluated when considering MNA.
- Again, the QuantArray-Petro results were encouraging – genes encoding the first step in multiple pathways for aerobic BTEX biodegradation were detected indicating the presence of a diverse population of aerobic BTEX degraders.
- However, aerobic BTEX degraders are often considered ubiquitous. Therefore answering the question "Is that low, medium or high?" becomes especially important when evaluating aerobic BTEX biodegradation at petroleum hydrocarbon sites.
- In this case, the estimated percentile ranks of the concentrations of toluene/benzene monooxygenase (RMO and RDEG) and phenol hydroxylase (PHE) genes ranged from the 64th to 73rd percentile.
- In other words, the concentrations of RMO, RDEG, and PHE detected in this groundwater sample were greater than the concentrations detected in 64% to 73% of all other groundwater samples where these genes were analyzed and detected above the PQL.
- Aerobic BTEX degraders are common in the environment, but in this sample concentrations of toluene/benzene monooxygenase genes could be viewed as "better than average" when compared to the MI Database.

Biostimulation – Chlorinated Solvent Site:

Whenever possible, interpretation of qPCR and QuantArray results should include comparisons between baseline and post-injection monitoring events as shown below (Figure 3). The estimated percentile ranks however provide an additional avenue for comparison and evaluation of remedy performance.

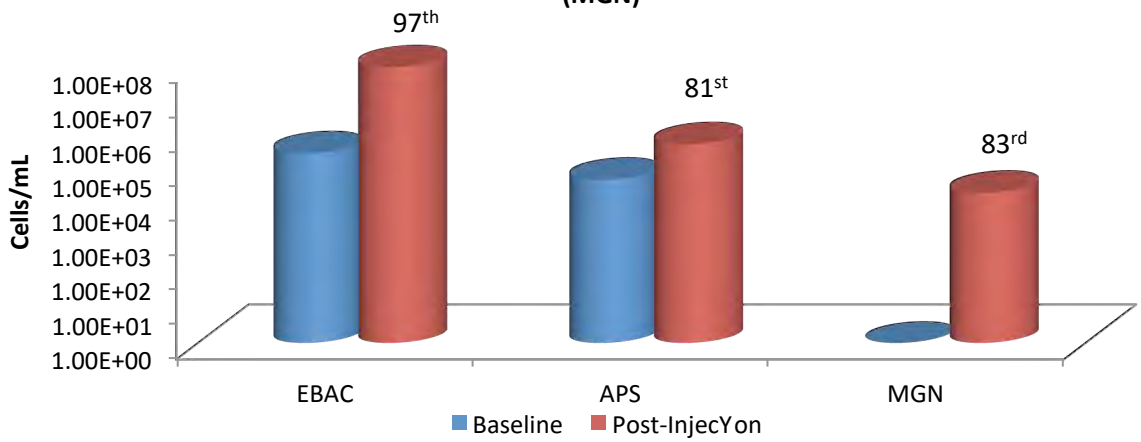
Figure 3: Microbial Populations - Reductive Dechlorination



- During the baseline groundwater sampling event, *Dehalococcoides* and vinyl chloride reductase genes were detected indicating the potential for complete reductive dechlorination of PCE and TCE to ethene.
- However, the *Dehalococcoides* concentration was well below the 10^4 cells/mL recommended by Lu et al. (2006) for generally effective rates of reductive dechlorination.
- Based on qPCR results as well as traditional groundwater monitoring, biostimulation with electron donor addition was selected as the site management plan.
- By the first monitoring event after injection, populations of halorespiring bacteria had increased substantially in response to electron donor addition.
    - *Dehalobacter* populations increased by more than two orders of magnitude to post-injection concentrations greater than 10^4 cells/mL (92^{nd} percentile).
    - *Dehalogenimonas* (10^6 cells/mL) and *Desulfitobacterium* (10^5 cells/mL) which had not been detected prior electron donor addition were present at concentrations greater than observed in over 90% of other groundwater samples where these halorespiring bacteria were detected.
- After injection, *Dehalococcoides* populations increased by more than an order of magnitude to a concentration of over 10^3 cells/mL (68^{th} percentile) demonstrating growth of this key group of halorespiring bacteria.
- Despite a substantial increase and a "better than average" concentration, the *Dehalococcoides* population was still below the 10^4 cells/mL threshold and vinyl chloride reductase gene copies were low (19^{th} percentile).
    - In terms of electron donors and acceptors, the metabolic capabilities of *Dehalococcoides* are rather specialized (hydrogen utilizing obligate halorespiring bacteria) so the median concentration is low. With a low median concentration across the database, a "better than average" *Dehalococcoides* concentration in a given sample may not exceed the 10^4 cells/mL threshold established for effective reductive dechlorination (Lu et al. 2006) and ethene production (Microbial Insights, unpublished data).

- In this case, the initial growth of *Dehalococcoides* was substantial but may have been somewhat hindered by competition with sulfate reducing bacteria (Figure 4 below).
    - The baseline population of sulfate reducing bacteria was moderate (10^4 cells/mL; 63rd percentile). Consistent with an observed decreased in dissolved sulfate concentrations, populations of sulfate reducing bacteria increased and were detected at a relatively high concentration (81st percentile) after electron donor addition.
    - After injection, methanogen populations also increased to a relatively high concentration (83rd percentile) suggesting generation of methanogenic conditions.
- With sulfate depletion and generation of highly anaerobic conditions more conducive to reductive dechlorination, *Dehalococcoides* populations may continue to increase and exceed the 10^4 *Dehalococcoides* cells/mL threshold in subsequent monitoring events.
- Overall, QuantArray analysis conclusively demonstrated that electron donor addition stimulated growth of halorespiring bacteria with the estimated percentiles retrieved from the MI Database providing the "low, medium or high" perspective to the observed changes in microbial populations.

Figure 4: Total Bacteria (EBAC), Sulfate Reducering Bacteria (APS) and Methanogens (MGN)



References

Lu, X., J.T. Wilson, and D.H. Kampbell. 2006. Relationship between *Dehalococcoides* DNA in ground water and rates of reductive dechlorination at field scale. *Water Research* 40 no. 16: 3131-3140.

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Fax: (865) 573-8133

ACCREDITED
CERTIFICATE #7157.01

Client: James Guin
ALS Laboratory Group
10450 Stancliff Rd
Suite 210
Houston, TX 77099

Phone:

Fax:

Identifier: 094VE **Date Rec:** 05/24/2024 **Report Date:** 05/31/2024

Client Project #: JVPCIBH.0001 **Client Project Name:** LHAAP / Site 58

Purchase Order #:

Test Results Provided For: CENSUS

Reviewed By: Adam Partin

NOTICE: This report is intended only for the addressee shown above and may contain confidential or privileged information. If the recipient of this material is not the intended recipient or if you have received this in error, please notify Microbial Insights, Inc. immediately. The data and other information in this report represent only the sample(s) analyzed and are rendered upon condition that it is not to be reproduced without approval from Microbial Insights, Inc. Thank you for your cooperation.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Tel. (865) 573-8188 Fax. (865) 573-8133

CENSUS

Client: **ALS Laboratory Group** **MI Project Number:** **094VE**

Project: LHAAP / Site 58 Date Received: 05/24/2024

Sample Information

Client Sample ID:	**35AWW19_052324**	**35AWW20_052324**	**35AWW23_052324**
Sample Date:	05/23/2024	05/23/2024	05/23/2024
Units:	cells/mL	cells/mL	cells/mL
Analyst/Reviewer:	AR/AP	AR/AP	AR/AP

Dechlorinating Bacteria

Dehalococcoides	*DHC*	**4.00E+00**	**3.60E+03**	**6.10E+01**
tceA Reductase	TCE	<2.30E-01	<2.30E-01	**2.60E+00**
BAV1 Vinyl Chloride Reductase	BVC	<2.30E-01	**6.60E+02**	**1.20E+00**
Vinyl Chloride Reductase	VCR	<2.30E-01	**2.10E+00**	**4.80E+01**
Dehalobacter spp.	*DHBt*	**5.50E+03**	**9.00E+02**	**1.20E+03**

Legend:
NA = Not Analyzed NS = Not Sampled J = Estimated gene copies below PQL but above LQL I = Inhibited
< = Result not detected

Samples Received: **05/24/2024**

Component	Date Prepared	Date Analyzed	Arrival Temperature	Positive Control	Extraction Blank	Negative Control
BVC	05/24/2024	05/31/2024	0°C	104%	non-detect	non-detect
DHBt	05/24/2024	05/31/2024	0°C	110%	non-detect	non-detect
DHC	05/24/2024	05/31/2024	0°C	109%	non-detect	non-detect
TCE	05/24/2024	05/31/2024	0°C	106%	non-detect	non-detect
VCR	05/24/2024	05/31/2024	0°C	108%	non-detect	non-detect

bhate

Page: ____ of 01337531

Project/Phase No: JVPCIBH.0001

COC Number(1): ____

LIMS Number: ____

1608 13th Avenue South, Suite 300
Birmingham Alabama 35205
Tel: 205-918-4000
Fax: 205-918-4050

Chain of Custody and Analytical Request

Facility/Base I.D.: LHAAP

Project/Site Name: LHAAP / Site 58

Client Name:

Collected by: Scott Beesinger

Field Sample ID (30 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	DHC / DHB	Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
35AWW9_052324	23 MAY 2024	0740	-	N		WG	1	X				094VF1
LHSMW07_052324	23 MAY 2024	0830	-	N		WG	1	X				2
35AWW20_052324	23 MAY 2024	0920	-	N		WG	1	X				3
35AWW11_052324	23 MAY 2024	1010		N		WG	1	X				4
35AWW23_052324	23 MAY 2024	1107		N		WG	1	X				5
35AWW06_052324	23 MAY 2024	1150	-	N		WG	1	X				6
			-									
			-									
			-									
			-									
			-									

Sample Analysis Requested (5) | Quality Assurance Samples (6)

COMMENTS: STANDARD TAT

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. Scott Beesinger	5/23/24	1430	1.	5/24/24	0950
2.			2.		
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: ____ Shipped ____ No.:

Method of Shipment: ____

Fed Ex ____ Airbill Number:

Analytical Lab: ALS 10450 Stancliff Rd Suite 210 Houston TX 77099 (281) 530-5656

ATTN: ____ Lab Recipient: ____ Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

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WorkOrder: HS24051959

LHAAP-58

Bhate Environmental Associates, Inc.

Marcia Olive
445 Union Blvd Ste 129
Lakewood CO 80228

03-Jul-2024

WorkOrder: HS24051959

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  - 35AWW05_052924
  - 35AWW24_052924
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Form 4 - MB Assoc

Form 5 - Tune

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Raw Data VOA7_469269 P240612

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Raw Data VOA9_468713 U240606

Raw Data VOA9_468791 U240606

Raw Data VOA9_468905 U240608

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Raw Data VOA9_469054 U240610

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HS24051959 LHAAP58 COVER PAGE REVISED 1

ALS WO# HS24051959

HS24051959 LHAAP58 Final REV01

ALS WO# HS24051959

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July 03, 2024

Marcia Olive
Bhate Environmental Associates, Inc.
445 Union Blvd Ste 129
Lakewood, CO 80228

Work Order: **HS24051959**

Laboratory Results for: **LHAAP-58**

Dear Marcia Olive,

ALS Environmental received 18 sample(s) on May 30, 2024 for the analysis presented in the following report.

This is a REVISED REPORT. Please see the Case Narrative for discussion concerning this revision.

Regards,

Generated By: JUMOKE.LAWAL
Luis.Aguilar

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
Work Order: HS24051959

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS24051959-01	35AWW15_052924	Water		29-May-2024 06:50	30-May-2024 09:35	☐
HS24051959-02	35AWW26_052924	Water		29-May-2024 07:30	30-May-2024 09:35	☐
HS24051959-03	35AWW05_052924	Water		29-May-2024 08:15	30-May-2024 09:35	☐
HS24051959-04	35AWW24_052924	Water		29-May-2024 08:55	30-May-2024 09:35	☐
HS24051959-05	35AWW09_052924	Water		29-May-2024 09:40	30-May-2024 09:35	☐
HS24051959-06	35AWW09_052924_a	Water		29-May-2024 09:40	30-May-2024 09:35	☐
HS24051959-07	35AWW21_052924	Water		29-May-2024 10:25	30-May-2024 09:35	☐
HS24051959-08	35AWW22_052924	Water		29-May-2024 11:10	30-May-2024 09:35	☐
HS24051959-09	35AWW12_052924	Water		29-May-2024 11:20	30-May-2024 09:35	☐
HS24051959-10	03WW01_052824	Water		28-May-2024 07:30	30-May-2024 09:35	☐
HS24051959-11	35AWW08_052824	Water		28-May-2024 08:10	30-May-2024 09:35	☐
HS24051959-12	35AWW01_052824	Water		28-May-2024 08:50	30-May-2024 09:35	☐
HS24051959-13	35AWW13_052824	Water		28-May-2024 14:50	30-May-2024 09:35	☐
HS24051959-14	35AWW10_052824	Water		28-May-2024 14:50	30-May-2024 09:35	☐
HS24051959-15	LHSMW06_052824	Water		28-May-2024 16:10	30-May-2024 09:35	☐
HS24051959-16	LHSMW06_052824_a	Water		28-May-2024 16:10	30-May-2024 09:35	☐
HS24051959-17	35AWW16_052824	Water		28-May-2024 16:50	30-May-2024 09:35	☐
HS24051959-18	Trip Blank	Water	CG-040123-957	29-May-2024 00:00	30-May-2024 09:35	☐

Revision:1

Client: Bhate Environmental Associates, Inc. **CASE NARRATIVE**
Project: LHAAP-58
Work Order: HS24051959

Work Order Comments

• This report was revised 07/03/24 to correct the field duplicate samples to match the chain of custody per client request.

Work Order Comments

• Login Comments: Sample : 35AWW13_052824A @14:50 listed on COC but not found in cooler

GCMS Volatiles by Method SW8260

Batch ID: R468948

Sample ID: HS24060349-12MS

• MS and MSD are for an unrelated sample

Batch ID: R469280

Sample ID: HS24060214-10MS

• MS and MSD are for an unrelated sample

Batch ID: R469054

Sample ID: 35AWW10_052824 (HS24051959-14MS)

• MS/MSD failed QC control limits due to matrix interference.

Surrogates failed outside control limits high. This was confirmed by MSD.

Sample ID: 35AWW10_052824 (HS24051959-14)

• Surrogate failed outside control limits high. There are no hits associated with this surrogate.

Batch ID: R468791

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Batch ID: R468713

Sample ID: 35AWW21_052924 (HS24051959-07MS)

• MS/MSD failed QC control limits due to matrix interference.

Metals by Method SW6020A

Batch ID: 213215

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

ALS Houston, US Date: 03-Jul-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
Sample ID: 35AWW15_052924
Collection Date: 29-May-2024 06:50

ANALYTICAL REPORT
WorkOrder:HS24051959
Lab ID:HS24051959-01
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
1,1,1,2-Tetrachloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 15:11
1,1,1-Trichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 15:11
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 15:11
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 15:11
1,1-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 15:11
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 15:11
1,1-Dichloropropene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 15:11
1,2,3-Trichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 15:11
1,2,3-Trichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 15:11
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 15:11
1,2,4-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 15:11
1,2-Dibromo-3-chloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 15:11
1,2-Dibromoethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 15:11
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 15:11
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 15:11
1,2-Dichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 15:11
1,3,5-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 15:11
1,3-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 15:11
1,3-Dichloropropane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 15:11
1,4-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 15:11
2,2-Dichloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 15:11
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	06-Jun-2024 15:11
2-Chlorotoluene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 15:11
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	06-Jun-2024 15:11
4-Chlorotoluene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 15:11
4-Isopropyltoluene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 15:11
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	06-Jun-2024 15:11
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	06-Jun-2024 15:11
Benzene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 15:11
Bromobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 15:11
Bromochloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 15:11
Bromodichloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 15:11
Bromoform	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 15:11
Bromomethane	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 15:11
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	06-Jun-2024 15:11
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 15:11
Chlorobenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 15:11
Chloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 15:11
Chloroform	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 15:11

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 03-Jul-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
Sample ID: 35AWW15_052924
Collection Date: 29-May-2024 06:50

ANALYTICAL REPORT
WorkOrder:HS24051959
Lab ID:HS24051959-01
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
Chloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 15:11
cis-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 15:11
cis-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 15:11
Dibromochloromethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 15:11
Dibromomethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 15:11
Dichlorodifluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 15:11
Ethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 15:11
Hexachlorobutadiene	1.0	U	1.0	1.0	1.0	ug/L	1	06-Jun-2024 15:11
Isopropylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 15:11
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	06-Jun-2024 15:11
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	06-Jun-2024 15:11
n-Butylbenzene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 15:11
n-Propylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 15:11
Naphthalene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 15:11
o-Xylene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 15:11
sec-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 15:11
Styrene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 15:11
tert-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 15:11
Tetrachloroethene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 15:11
Toluene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 15:11
trans-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 15:11
trans-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 15:11
Trichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 15:11
Trichlorofluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 15:11
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 15:11
Surr: 1,2-Dichloroethane-d4	*111*			**0**	*81-118*	*%REC*	*1*	*06-Jun-2024 15:11*
Surr: 4-Bromofluorobenzene	*104*			**0**	*85-114*	*%REC*	*1*	*06-Jun-2024 15:11*
Surr: Dibromofluoromethane	*104*			**0**	*80-119*	*%REC*	*1*	*06-Jun-2024 15:11*
Surr: Toluene-d8	*108*			**0**	*89-112*	*%REC*	*1*	*06-Jun-2024 15:11*

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

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ALS Houston, US Date: 03-Jul-24

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**
Project: LHAAP-58 WorkOrder:HS24051959
Sample ID: 35AWW26_052924 Lab ID:HS24051959-02
Collection Date: 29-May-2024 07:30 Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
1,1,1,2-Tetrachloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 15:32
1,1,1-Trichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 15:32
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 15:32
1,1,2-Trichloroethane	**0.63**	J	**0.30**	**1.0**	**1.0**	**ug/L**	1	06-Jun-2024 15:32
1,1-Dichloroethane	**84**		**0.20**	**1.0**	**1.0**	**ug/L**	1	06-Jun-2024 15:32
1,1-Dichloroethene	**180**		**0.20**	**1.0**	**1.0**	**ug/L**	1	06-Jun-2024 15:32
1,1-Dichloropropene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 15:32
1,2,3-Trichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 15:32
1,2,3-Trichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 15:32
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 15:32
1,2,4-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 15:32
1,2-Dibromo-3-chloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 15:32
1,2-Dibromoethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 15:32
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 15:32
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 15:32
1,2-Dichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 15:32
1,3,5-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 15:32
1,3-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 15:32
1,3-Dichloropropane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 15:32
1,4-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 15:32
2,2-Dichloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 15:32
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	06-Jun-2024 15:32
2-Chlorotoluene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 15:32
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	06-Jun-2024 15:32
4-Chlorotoluene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 15:32
4-Isopropyltoluene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 15:32
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	06-Jun-2024 15:32
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	06-Jun-2024 15:32
Benzene	**1.0**		**0.20**	**1.0**	**1.0**	**ug/L**	1	06-Jun-2024 15:32
Bromobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 15:32
Bromochloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 15:32
Bromodichloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 15:32
Bromoform	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 15:32
Bromomethane	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 15:32
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	06-Jun-2024 15:32
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 15:32
Chlorobenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 15:32
Chloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 15:32
Chloroform	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 15:32

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

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ALS Houston, US Date: 03-Jul-24

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**

Project: LHAAP-58 WorkOrder:HS24051959

Sample ID: 35AWW26_052924 Lab ID:HS24051959-02

Collection Date: 29-May-2024 07:30 Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
Chloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 15:32
cis-1,2-Dichloroethene	**7.1**		**0.20**	**1.0**	**1.0**	**ug/L**	1	06-Jun-2024 15:32
cis-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 15:32
Dibromochloromethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 15:32
Dibromomethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 15:32
Dichlorodifluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 15:32
Ethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 15:32
Hexachlorobutadiene	1.0	U	1.0	1.0	1.0	ug/L	1	06-Jun-2024 15:32
Isopropylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 15:32
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	06-Jun-2024 15:32
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	06-Jun-2024 15:32
n-Butylbenzene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 15:32
n-Propylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 15:32
Naphthalene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 15:32
o-Xylene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 15:32
sec-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 15:32
Styrene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 15:32
tert-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 15:32
Tetrachloroethene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 15:32
Toluene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 15:32
trans-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 15:32
trans-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 15:32
Trichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 15:32
Trichlorofluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 15:32
Vinyl chloride	**15**		**0.20**	**1.0**	**1.0**	**ug/L**	1	06-Jun-2024 15:32
Surr: 1,2-Dichloroethane-d4	*111*			**0**	*81-118*	*%REC*	*1*	*06-Jun-2024 15:32*
Surr: 4-Bromofluorobenzene	*103*			**0**	*85-114*	*%REC*	*1*	*06-Jun-2024 15:32*
Surr: Dibromofluoromethane	*106*			**0**	*80-119*	*%REC*	*1*	*06-Jun-2024 15:32*
Surr: Toluene-d8	*108*			**0**	*89-112*	*%REC*	*1*	*06-Jun-2024 15:32*

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

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ALS Houston, US Date: 03-Jul-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
Sample ID: 35AWW05_052924
Collection Date: 29-May-2024 08:15

ANALYTICAL REPORT
WorkOrder:HS24051959
Lab ID:HS24051959-03
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
1,1,1,2-Tetrachloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 15:54
1,1,1-Trichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 15:54
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 15:54
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 15:54
1,1-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 15:54
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 15:54
1,1-Dichloropropene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 15:54
1,2,3-Trichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 15:54
1,2,3-Trichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 15:54
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 15:54
1,2,4-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 15:54
1,2-Dibromo-3-chloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 15:54
1,2-Dibromoethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 15:54
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 15:54
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 15:54
1,2-Dichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 15:54
1,3,5-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 15:54
1,3-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 15:54
1,3-Dichloropropane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 15:54
1,4-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 15:54
2,2-Dichloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 15:54
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	06-Jun-2024 15:54
2-Chlorotoluene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 15:54
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	06-Jun-2024 15:54
4-Chlorotoluene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 15:54
4-Isopropyltoluene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 15:54
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	06-Jun-2024 15:54
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	06-Jun-2024 15:54
Benzene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 15:54
Bromobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 15:54
Bromochloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 15:54
Bromodichloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 15:54
Bromoform	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 15:54
Bromomethane	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 15:54
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	06-Jun-2024 15:54
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 15:54
Chlorobenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 15:54
Chloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 15:54
Chloroform	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 15:54

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 03-Jul-24

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**

Project: LHAAP-58 WorkOrder:HS24051959

Sample ID: 35AWW05_052924 Lab ID:HS24051959-03

Collection Date: 29-May-2024 08:15 Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
Chloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 15:54
cis-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 15:54
cis-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 15:54
Dibromochloromethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 15:54
Dibromomethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 15:54
Dichlorodifluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 15:54
Ethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 15:54
Hexachlorobutadiene	1.0	U	1.0	1.0	1.0	ug/L	1	06-Jun-2024 15:54
Isopropylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 15:54
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	06-Jun-2024 15:54
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	06-Jun-2024 15:54
n-Butylbenzene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 15:54
n-Propylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 15:54
Naphthalene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 15:54
o-Xylene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 15:54
sec-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 15:54
Styrene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 15:54
tert-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 15:54
Tetrachloroethene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 15:54
Toluene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 15:54
trans-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 15:54
trans-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 15:54
Trichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 15:54
Trichlorofluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 15:54
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 15:54
Surr: 1,2-Dichloroethane-d4	*111*			**0**	*81-118*	*%REC*	*1*	*06-Jun-2024 15:54*
Surr: 4-Bromofluorobenzene	*103*			**0**	*85-114*	*%REC*	*1*	*06-Jun-2024 15:54*
Surr: Dibromofluoromethane	*103*			**0**	*80-119*	*%REC*	*1*	*06-Jun-2024 15:54*
Surr: Toluene-d8	*109*			**0**	*89-112*	*%REC*	*1*	*06-Jun-2024 15:54*

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 03-Jul-24

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**
Project: LHAAP-58 WorkOrder:HS24051959
Sample ID: 35AWW24_052924 Lab ID:HS24051959-04
Collection Date: 29-May-2024 08:55 Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
1,1,1,2-Tetrachloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 16:15
1,1,1-Trichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 16:15
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 16:15
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 16:15
1,1-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 16:15
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 16:15
1,1-Dichloropropene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 16:15
1,2,3-Trichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 16:15
1,2,3-Trichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 16:15
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 16:15
1,2,4-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 16:15
1,2-Dibromo-3-chloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 16:15
1,2-Dibromoethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 16:15
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 16:15
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 16:15
1,2-Dichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 16:15
1,3,5-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 16:15
1,3-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 16:15
1,3-Dichloropropane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 16:15
1,4-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 16:15
2,2-Dichloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 16:15
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	06-Jun-2024 16:15
2-Chlorotoluene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 16:15
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	06-Jun-2024 16:15
4-Chlorotoluene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 16:15
4-Isopropyltoluene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 16:15
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	06-Jun-2024 16:15
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	06-Jun-2024 16:15
Benzene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 16:15
Bromobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 16:15
Bromochloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 16:15
Bromodichloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 16:15
Bromoform	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 16:15
Bromomethane	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 16:15
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	06-Jun-2024 16:15
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 16:15
Chlorobenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 16:15
Chloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 16:15
Chloroform	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 16:15

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

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ALS Houston, US Date: 03-Jul-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
Sample ID: 35AWW24_052924
Collection Date: 29-May-2024 08:55

ANALYTICAL REPORT
WorkOrder:HS24051959
Lab ID:HS24051959-04
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
Chloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 16:15
cis-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 16:15
cis-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 16:15
Dibromochloromethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 16:15
Dibromomethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 16:15
Dichlorodifluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 16:15
Ethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 16:15
Hexachlorobutadiene	1.0	U	1.0	1.0	1.0	ug/L	1	06-Jun-2024 16:15
Isopropylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 16:15
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	06-Jun-2024 16:15
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	06-Jun-2024 16:15
n-Butylbenzene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 16:15
n-Propylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 16:15
Naphthalene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 16:15
o-Xylene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 16:15
sec-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 16:15
Styrene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 16:15
tert-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 16:15
Tetrachloroethene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 16:15
Toluene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 16:15
trans-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 16:15
trans-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 16:15
Trichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 16:15
Trichlorofluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 16:15
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 16:15
Surr: 1,2-Dichloroethane-d4	*113*			**0**	*81-118*	*%REC*	*1*	*06-Jun-2024 16:15*
Surr: 4-Bromofluorobenzene	*104*			**0**	*85-114*	*%REC*	*1*	*06-Jun-2024 16:15*
Surr: Dibromofluoromethane	*106*			**0**	*80-119*	*%REC*	*1*	*06-Jun-2024 16:15*
Surr: Toluene-d8	*109*			**0**	*89-112*	*%REC*	*1*	*06-Jun-2024 16:15*

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

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ALS Houston, US Date: 03-Jul-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
Sample ID: 35AWW09_052924
Collection Date: 29-May-2024 09:40

ANALYTICAL REPORT
WorkOrder:HS24051959
Lab ID:HS24051959-05
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
1,1,1,2-Tetrachloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	09-Jun-2024 15:28
1,1,1-Trichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	09-Jun-2024 15:28
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	09-Jun-2024 15:28
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	09-Jun-2024 15:28
1,1-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	09-Jun-2024 15:28
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	09-Jun-2024 15:28
1,1-Dichloropropene	1.0	U	0.30	1.0	1.0	ug/L	1	09-Jun-2024 15:28
1,2,3-Trichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	09-Jun-2024 15:28
1,2,3-Trichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	09-Jun-2024 15:28
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	09-Jun-2024 15:28
1,2,4-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	09-Jun-2024 15:28
1,2-Dibromo-3-chloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	09-Jun-2024 15:28
1,2-Dibromoethane	1.0	U	0.20	1.0	1.0	ug/L	1	09-Jun-2024 15:28
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	09-Jun-2024 15:28
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	09-Jun-2024 15:28
1,2-Dichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	09-Jun-2024 15:28
1,3,5-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	09-Jun-2024 15:28
1,3-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	09-Jun-2024 15:28
1,3-Dichloropropane	1.0	U	0.30	1.0	1.0	ug/L	1	09-Jun-2024 15:28
1,4-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	09-Jun-2024 15:28
2,2-Dichloropropane	0	U	0.20	0	1.0	ug/L	1	12-Jun-2024 20:29
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	09-Jun-2024 15:28
2-Chlorotoluene	1.0	U	0.30	1.0	1.0	ug/L	1	09-Jun-2024 15:28
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	09-Jun-2024 15:28
4-Chlorotoluene	1.0	U	0.40	1.0	1.0	ug/L	1	09-Jun-2024 15:28
4-Isopropyltoluene	1.0	U	0.30	1.0	1.0	ug/L	1	09-Jun-2024 15:28
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	09-Jun-2024 15:28
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	09-Jun-2024 15:28
Benzene	1.0	U	0.20	1.0	1.0	ug/L	1	09-Jun-2024 15:28
Bromobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	09-Jun-2024 15:28
Bromochloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	09-Jun-2024 15:28
Bromodichloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	09-Jun-2024 15:28
Bromoform	1.0	U	0.40	1.0	1.0	ug/L	1	09-Jun-2024 15:28
Bromomethane	1.0	U	0.40	1.0	1.0	ug/L	1	09-Jun-2024 15:28
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	09-Jun-2024 15:28
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	ug/L	1	09-Jun-2024 15:28
Chlorobenzene	1.0	U	0.30	1.0	1.0	ug/L	1	09-Jun-2024 15:28
Chloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	09-Jun-2024 15:28
Chloroform	1.0	U	0.20	1.0	1.0	ug/L	1	09-Jun-2024 15:28

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

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ALS Houston, US Date: 03-Jul-24

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**
Project: LHAAP-58 WorkOrder:HS24051959
Sample ID: 35AWW09_052924 Lab ID:HS24051959-05
Collection Date: 29-May-2024 09:40 Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: TS
Chloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	09-Jun-2024 15:28
cis-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	09-Jun-2024 15:28
cis-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	09-Jun-2024 15:28
Dibromochloromethane	1.0	U	0.30	1.0	1.0	ug/L	1	09-Jun-2024 15:28
Dibromomethane	1.0	U	0.20	1.0	1.0	ug/L	1	09-Jun-2024 15:28
Dichlorodifluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	09-Jun-2024 15:28
Ethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	09-Jun-2024 15:28
Hexachlorobutadiene	1.0	U	1.0	1.0	1.0	ug/L	1	09-Jun-2024 15:28
Isopropylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	09-Jun-2024 15:28
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	09-Jun-2024 15:28
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	09-Jun-2024 15:28
n-Butylbenzene	1.0	U	0.40	1.0	1.0	ug/L	1	09-Jun-2024 15:28
n-Propylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	09-Jun-2024 15:28
Naphthalene	1.0	U	0.30	1.0	1.0	ug/L	1	09-Jun-2024 15:28
o-Xylene	1.0	U	0.30	1.0	1.0	ug/L	1	09-Jun-2024 15:28
sec-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	09-Jun-2024 15:28
Styrene	1.0	U	0.30	1.0	1.0	ug/L	1	09-Jun-2024 15:28
tert-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	09-Jun-2024 15:28
Tetrachloroethene	**380**		**1.5**	**5.0**	**5.0**	**ug/L**	5	06-Jun-2024 16:39
Toluene	1.0	U	0.20	1.0	1.0	ug/L	1	09-Jun-2024 15:28
trans-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	09-Jun-2024 15:28
trans-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	09-Jun-2024 15:28
Trichloroethene	**180**		**1.0**	**5.0**	**5.0**	**ug/L**	5	06-Jun-2024 16:39
Trichlorofluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	09-Jun-2024 15:28
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	09-Jun-2024 15:28
Surr: 1,2-Dichloroethane-d4	*108*			**0**	*81-118*	*%REC*	*5*	*06-Jun-2024 16:39*
Surr: 1,2-Dichloroethane-d4	*114*			**0**	*81-118*	*%REC*	*1*	*09-Jun-2024 15:28*
Surr: 1,2-Dichloroethane-d4	*113*			**0**	*81-118*	*%REC*	*1*	*12-Jun-2024 20:29*
Surr: 4-Bromofluorobenzene	*98.0*			**0**	*85-114*	*%REC*	*5*	*06-Jun-2024 16:39*
Surr: 4-Bromofluorobenzene	*113*			**0**	*85-114*	*%REC*	*1*	*09-Jun-2024 15:28*
Surr: 4-Bromofluorobenzene	*105*			**0**	*85-114*	*%REC*	*1*	*12-Jun-2024 20:29*
Surr: Dibromofluoromethane	*101*			**0**	*80-119*	*%REC*	*5*	*06-Jun-2024 16:39*
Surr: Dibromofluoromethane	*108*			**0**	*80-119*	*%REC*	*1*	*09-Jun-2024 15:28*
Surr: Dibromofluoromethane	*117*			**0**	*80-119*	*%REC*	*1*	*12-Jun-2024 20:29*
Surr: Toluene-d8	*103*			**0**	*89-112*	*%REC*	*5*	*06-Jun-2024 16:39*
Surr: Toluene-d8	*111*			**0**	*89-112*	*%REC*	*1*	*09-Jun-2024 15:28*
Surr: Toluene-d8	*110*			**0**	*89-112*	*%REC*	*1*	*12-Jun-2024 20:29*
METALS BY ICPMS BY SW6020A		**Method:SW6020A**				Prep:SW3010A / 08-Jun-2024		Analyst: JC
Arsenic	**0.000521**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	12-Jun-2024 11:30

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 03-Jul-24

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**
Project: LHAAP-58 WorkOrder:HS24051959
Sample ID: 35AWW09_052924_a Lab ID:HS24051959-06
Collection Date: 29-May-2024 09:40 Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
1,1,1,2-Tetrachloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	09-Jun-2024 15:49
1,1,1-Trichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	09-Jun-2024 15:49
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	09-Jun-2024 15:49
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	09-Jun-2024 15:49
1,1-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	09-Jun-2024 15:49
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	09-Jun-2024 15:49
1,1-Dichloropropene	1.0	U	0.30	1.0	1.0	ug/L	1	09-Jun-2024 15:49
1,2,3-Trichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	09-Jun-2024 15:49
1,2,3-Trichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	09-Jun-2024 15:49
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	09-Jun-2024 15:49
1,2,4-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	09-Jun-2024 15:49
1,2-Dibromo-3-chloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	09-Jun-2024 15:49
1,2-Dibromoethane	1.0	U	0.20	1.0	1.0	ug/L	1	09-Jun-2024 15:49
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	09-Jun-2024 15:49
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	09-Jun-2024 15:49
1,2-Dichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	09-Jun-2024 15:49
1,3,5-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	09-Jun-2024 15:49
1,3-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	09-Jun-2024 15:49
1,3-Dichloropropane	1.0	U	0.30	1.0	1.0	ug/L	1	09-Jun-2024 15:49
1,4-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	09-Jun-2024 15:49
2,2-Dichloropropane	0	U	0.20	0	1.0	ug/L	1	12-Jun-2024 20:52
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	09-Jun-2024 15:49
2-Chlorotoluene	1.0	U	0.30	1.0	1.0	ug/L	1	09-Jun-2024 15:49
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	09-Jun-2024 15:49
4-Chlorotoluene	1.0	U	0.40	1.0	1.0	ug/L	1	09-Jun-2024 15:49
4-Isopropyltoluene	1.0	U	0.30	1.0	1.0	ug/L	1	09-Jun-2024 15:49
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	09-Jun-2024 15:49
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	09-Jun-2024 15:49
Benzene	1.0	U	0.20	1.0	1.0	ug/L	1	09-Jun-2024 15:49
Bromobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	09-Jun-2024 15:49
Bromochloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	09-Jun-2024 15:49
Bromodichloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	09-Jun-2024 15:49
Bromoform	1.0	U	0.40	1.0	1.0	ug/L	1	09-Jun-2024 15:49
Bromomethane	1.0	U	0.40	1.0	1.0	ug/L	1	09-Jun-2024 15:49
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	09-Jun-2024 15:49
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	ug/L	1	09-Jun-2024 15:49
Chlorobenzene	1.0	U	0.30	1.0	1.0	ug/L	1	09-Jun-2024 15:49
Chloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	09-Jun-2024 15:49
Chloroform	1.0	U	0.20	1.0	1.0	ug/L	1	09-Jun-2024 15:49

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

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ALS Houston, US Date: 03-Jul-24

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**
Project: LHAAP-58 WorkOrder:HS24051959
Sample ID: 35AWW09_052924_a Lab ID:HS24051959-06
Collection Date: 29-May-2024 09:40 Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: TS
Chloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	09-Jun-2024 15:49
cis-1,2-Dichloroethene	**1.5**		**0.20**	**1.0**	**1.0**	**ug/L**	1	09-Jun-2024 15:49
cis-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	09-Jun-2024 15:49
Dibromochloromethane	1.0	U	0.30	1.0	1.0	ug/L	1	09-Jun-2024 15:49
Dibromomethane	1.0	U	0.20	1.0	1.0	ug/L	1	09-Jun-2024 15:49
Dichlorodifluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	09-Jun-2024 15:49
Ethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	09-Jun-2024 15:49
Hexachlorobutadiene	1.0	U	1.0	1.0	1.0	ug/L	1	09-Jun-2024 15:49
Isopropylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	09-Jun-2024 15:49
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	09-Jun-2024 15:49
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	09-Jun-2024 15:49
n-Butylbenzene	1.0	U	0.40	1.0	1.0	ug/L	1	09-Jun-2024 15:49
n-Propylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	09-Jun-2024 15:49
Naphthalene	1.0	U	0.30	1.0	1.0	ug/L	1	09-Jun-2024 15:49
o-Xylene	1.0	U	0.30	1.0	1.0	ug/L	1	09-Jun-2024 15:49
sec-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	09-Jun-2024 15:49
Styrene	1.0	U	0.30	1.0	1.0	ug/L	1	09-Jun-2024 15:49
tert-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	09-Jun-2024 15:49
Tetrachloroethene	**430**		**1.5**	**5.0**	**5.0**	**ug/L**	5	06-Jun-2024 17:03
Toluene	1.0	U	0.20	1.0	1.0	ug/L	1	09-Jun-2024 15:49
trans-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	09-Jun-2024 15:49
trans-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	09-Jun-2024 15:49
Trichloroethene	**190**		**1.0**	**5.0**	**5.0**	**ug/L**	5	06-Jun-2024 17:03
Trichlorofluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	09-Jun-2024 15:49
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	09-Jun-2024 15:49
Surr: 1,2-Dichloroethane-d4	*107*			**0**	*81-118*	*%REC*	*5*	*06-Jun-2024 17:03*
Surr: 1,2-Dichloroethane-d4	*113*			**0**	*81-118*	*%REC*	*1*	*09-Jun-2024 15:49*
Surr: 1,2-Dichloroethane-d4	*114*			**0**	*81-118*	*%REC*	*1*	*12-Jun-2024 20:52*
Surr: 4-Bromofluorobenzene	*97.2*			**0**	*85-114*	*%REC*	*5*	*06-Jun-2024 17:03*
Surr: 4-Bromofluorobenzene	*110*			**0**	*85-114*	*%REC*	*1*	*09-Jun-2024 15:49*
Surr: 4-Bromofluorobenzene	*109*			**0**	*85-114*	*%REC*	*1*	*12-Jun-2024 20:52*
Surr: Dibromofluoromethane	*100*			**0**	*80-119*	*%REC*	*5*	*06-Jun-2024 17:03*
Surr: Dibromofluoromethane	*110*			**0**	*80-119*	*%REC*	*1*	*09-Jun-2024 15:49*
Surr: Dibromofluoromethane	*116*			**0**	*80-119*	*%REC*	*1*	*12-Jun-2024 20:52*
Surr: Toluene-d8	*104*			**0**	*89-112*	*%REC*	*5*	*06-Jun-2024 17:03*
Surr: Toluene-d8	*111*			**0**	*89-112*	*%REC*	*1*	*09-Jun-2024 15:49*
Surr: Toluene-d8	*110*			**0**	*89-112*	*%REC*	*1*	*12-Jun-2024 20:52*
METALS BY ICPMS BY SW6020A		**Method:SW6020A**				Prep:SW3010A / 08-Jun-2024		Analyst: JC
Arsenic	**0.000535**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	12-Jun-2024 11:41

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 03-Jul-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
Sample ID: 35AWW21_052924
Collection Date: 29-May-2024 10:25

ANALYTICAL REPORT
WorkOrder:HS24051959
Lab ID:HS24051959-07
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
1,1,1,2-Tetrachloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 12:37
1,1,1-Trichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 12:37
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 12:37
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 12:37
1,1-Dichloroethane	**4.0**		**0.20**	**1.0**	**1.0**	**ug/L**	1	06-Jun-2024 12:37
1,1-Dichloroethene	**3.6**		**0.20**	**1.0**	**1.0**	**ug/L**	1	06-Jun-2024 12:37
1,1-Dichloropropene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 12:37
1,2,3-Trichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 12:37
1,2,3-Trichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 12:37
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 12:37
1,2,4-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 12:37
1,2-Dibromo-3-chloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 12:37
1,2-Dibromoethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 12:37
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 12:37
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 12:37
1,2-Dichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 12:37
1,3,5-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 12:37
1,3-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 12:37
1,3-Dichloropropane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 12:37
1,4-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 12:37
2,2-Dichloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 12:37
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	06-Jun-2024 12:37
2-Chlorotoluene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 12:37
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	06-Jun-2024 12:37
4-Chlorotoluene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 12:37
4-Isopropyltoluene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 12:37
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	06-Jun-2024 12:37
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	06-Jun-2024 12:37
Benzene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 12:37
Bromobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 12:37
Bromochloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 12:37
Bromodichloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 12:37
Bromoform	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 12:37
Bromomethane	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 12:37
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	06-Jun-2024 12:37
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 12:37
Chlorobenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 12:37
Chloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 12:37
Chloroform	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 12:37

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

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ALS Houston, US Date: 03-Jul-24

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**
Project: LHAAP-58 WorkOrder:HS24051959
Sample ID: 35AWW21_052924 Lab ID:HS24051959-07
Collection Date: 29-May-2024 10:25 Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
Chloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 12:37
cis-1,2-Dichloroethene	**1.1**		**0.20**	**1.0**	**1.0**	**ug/L**	1	06-Jun-2024 12:37
cis-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 12:37
Dibromochloromethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 12:37
Dibromomethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 12:37
Dichlorodifluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 12:37
Ethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 12:37
Hexachlorobutadiene	1.0	U	1.0	1.0	1.0	ug/L	1	06-Jun-2024 12:37
Isopropylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 12:37
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	06-Jun-2024 12:37
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	06-Jun-2024 12:37
n-Butylbenzene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 12:37
n-Propylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 12:37
Naphthalene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 12:37
o-Xylene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 12:37
sec-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 12:37
Styrene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 12:37
tert-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 12:37
Tetrachloroethene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 12:37
Toluene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 12:37
trans-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 12:37
trans-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 12:37
Trichloroethene	**0.77**	J	**0.20**	**1.0**	**1.0**	**ug/L**	1	06-Jun-2024 12:37
Trichlorofluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 12:37
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 12:37
Surr: 1,2-Dichloroethane-d4	*111*			**0**	*81-118*	*%REC*	*1*	*06-Jun-2024 12:37*
Surr: 4-Bromofluorobenzene	*105*			**0**	*85-114*	*%REC*	*1*	*06-Jun-2024 12:37*
Surr: Dibromofluoromethane	*104*			**0**	*80-119*	*%REC*	*1*	*06-Jun-2024 12:37*
Surr: Toluene-d8	*109*			**0**	*89-112*	*%REC*	*1*	*06-Jun-2024 12:37*

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 03-Jul-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
Sample ID: 35AWW22_052924
Collection Date: 29-May-2024 11:10

ANALYTICAL REPORT
WorkOrder:HS24051959
Lab ID:HS24051959-08
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
1,1,1,2-Tetrachloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 17:24
1,1,1-Trichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 17:24
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 17:24
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 17:24
1,1-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 17:24
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 17:24
1,1-Dichloropropene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 17:24
1,2,3-Trichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 17:24
1,2,3-Trichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 17:24
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 17:24
1,2,4-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 17:24
1,2-Dibromo-3-chloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 17:24
1,2-Dibromoethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 17:24
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 17:24
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 17:24
1,2-Dichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 17:24
1,3,5-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 17:24
1,3-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 17:24
1,3-Dichloropropane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 17:24
1,4-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 17:24
2,2-Dichloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 17:24
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	06-Jun-2024 17:24
2-Chlorotoluene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 17:24
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	06-Jun-2024 17:24
4-Chlorotoluene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 17:24
4-Isopropyltoluene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 17:24
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	06-Jun-2024 17:24
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	06-Jun-2024 17:24
Benzene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 17:24
Bromobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 17:24
Bromochloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 17:24
Bromodichloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 17:24
Bromoform	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 17:24
Bromomethane	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 17:24
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	06-Jun-2024 17:24
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 17:24
Chlorobenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 17:24
Chloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 17:24
Chloroform	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 17:24

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 03-Jul-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
Sample ID: 35AWW22_052924
Collection Date: 29-May-2024 11:10

ANALYTICAL REPORT
WorkOrder:HS24051959
Lab ID:HS24051959-08
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
Chloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 17:24
cis-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 17:24
cis-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 17:24
Dibromochloromethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 17:24
Dibromomethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 17:24
Dichlorodifluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 17:24
Ethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 17:24
Hexachlorobutadiene	1.0	U	1.0	1.0	1.0	ug/L	1	06-Jun-2024 17:24
Isopropylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 17:24
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	06-Jun-2024 17:24
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	06-Jun-2024 17:24
n-Butylbenzene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 17:24
n-Propylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 17:24
Naphthalene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 17:24
o-Xylene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 17:24
sec-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 17:24
Styrene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 17:24
tert-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 17:24
Tetrachloroethene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 17:24
Toluene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 17:24
trans-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 17:24
trans-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 17:24
Trichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 17:24
Trichlorofluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 17:24
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 17:24
Surr: 1,2-Dichloroethane-d4	*112*			**0**	*81-118*	*%REC*	*1*	*06-Jun-2024 17:24*
Surr: 4-Bromofluorobenzene	*102*			**0**	*85-114*	*%REC*	*1*	*06-Jun-2024 17:24*
Surr: Dibromofluoromethane	*104*			**0**	*80-119*	*%REC*	*1*	*06-Jun-2024 17:24*
Surr: Toluene-d8	*107*			**0**	*89-112*	*%REC*	*1*	*06-Jun-2024 17:24*

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 03-Jul-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
Sample ID: 35AWW12_052924
Collection Date: 29-May-2024 11:20

ANALYTICAL REPORT
WorkOrder:HS24051959
Lab ID:HS24051959-09
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
1,1,1,2-Tetrachloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 17:46
1,1,1-Trichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 17:46
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 17:46
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 17:46
1,1-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 17:46
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 17:46
1,1-Dichloropropene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 17:46
1,2,3-Trichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 17:46
1,2,3-Trichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 17:46
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 17:46
1,2,4-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 17:46
1,2-Dibromo-3-chloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 17:46
1,2-Dibromoethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 17:46
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 17:46
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 17:46
1,2-Dichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 17:46
1,3,5-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 17:46
1,3-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 17:46
1,3-Dichloropropane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 17:46
1,4-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 17:46
2,2-Dichloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 17:46
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	06-Jun-2024 17:46
2-Chlorotoluene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 17:46
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	06-Jun-2024 17:46
4-Chlorotoluene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 17:46
4-Isopropyltoluene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 17:46
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	06-Jun-2024 17:46
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	06-Jun-2024 17:46
Benzene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 17:46
Bromobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 17:46
Bromochloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 17:46
Bromodichloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 17:46
Bromoform	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 17:46
Bromomethane	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 17:46
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	06-Jun-2024 17:46
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 17:46
Chlorobenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 17:46
Chloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 17:46
Chloroform	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 17:46

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 03-Jul-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
Sample ID: 35AWW12_052924
Collection Date: 29-May-2024 11:20

ANALYTICAL REPORT
WorkOrder:HS24051959
Lab ID:HS24051959-09
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
Chloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 17:46
cis-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 17:46
cis-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 17:46
Dibromochloromethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 17:46
Dibromomethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 17:46
Dichlorodifluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 17:46
Ethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 17:46
Hexachlorobutadiene	1.0	U	1.0	1.0	1.0	ug/L	1	06-Jun-2024 17:46
Isopropylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 17:46
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	06-Jun-2024 17:46
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	06-Jun-2024 17:46
n-Butylbenzene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 17:46
n-Propylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 17:46
Naphthalene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 17:46
o-Xylene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 17:46
sec-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 17:46
Styrene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 17:46
tert-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 17:46
Tetrachloroethene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 17:46
Toluene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 17:46
trans-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 17:46
trans-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 17:46
Trichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 17:46
Trichlorofluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 17:46
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 17:46
Surr: 1,2-Dichloroethane-d4	*113*			**0**	*81-118*	*%REC*	*1*	*06-Jun-2024 17:46*
Surr: 4-Bromofluorobenzene	*104*			**0**	*85-114*	*%REC*	*1*	*06-Jun-2024 17:46*
Surr: Dibromofluoromethane	*107*			**0**	*80-119*	*%REC*	*1*	*06-Jun-2024 17:46*
Surr: Toluene-d8	*108*			**0**	*89-112*	*%REC*	*1*	*06-Jun-2024 17:46*

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 03-Jul-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
Sample ID: 03WW01_052824
Collection Date: 28-May-2024 07:30

ANALYTICAL REPORT
WorkOrder:HS24051959
Lab ID:HS24051959-10
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
1,1,1,2-Tetrachloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 18:07
1,1,1-Trichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 18:07
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 18:07
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 18:07
1,1-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 18:07
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 18:07
1,1-Dichloropropene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 18:07
1,2,3-Trichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 18:07
1,2,3-Trichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 18:07
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 18:07
1,2,4-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 18:07
1,2-Dibromo-3-chloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 18:07
1,2-Dibromoethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 18:07
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 18:07
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 18:07
1,2-Dichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 18:07
1,3,5-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 18:07
1,3-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 18:07
1,3-Dichloropropane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 18:07
1,4-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 18:07
2,2-Dichloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 18:07
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	06-Jun-2024 18:07
2-Chlorotoluene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 18:07
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	06-Jun-2024 18:07
4-Chlorotoluene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 18:07
4-Isopropyltoluene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 18:07
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	06-Jun-2024 18:07
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	06-Jun-2024 18:07
Benzene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 18:07
Bromobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 18:07
Bromochloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 18:07
Bromodichloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 18:07
Bromoform	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 18:07
Bromomethane	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 18:07
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	06-Jun-2024 18:07
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 18:07
Chlorobenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 18:07
Chloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 18:07
Chloroform	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 18:07

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 03-Jul-24

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**
Project: LHAAP-58 WorkOrder:HS24051959
Sample ID: 03WW01_052824 Lab ID:HS24051959-10
Collection Date: 28-May-2024 07:30 Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: TS
Chloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 18:07
cis-1,2-Dichloroethene	**9.8**		**0.20**	**1.0**	**1.0**	**ug/L**	1	06-Jun-2024 18:07
cis-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 18:07
Dibromochloromethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 18:07
Dibromomethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 18:07
Dichlorodifluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 18:07
Ethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 18:07
Hexachlorobutadiene	1.0	U	1.0	1.0	1.0	ug/L	1	06-Jun-2024 18:07
Isopropylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 18:07
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	06-Jun-2024 18:07
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	06-Jun-2024 18:07
n-Butylbenzene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 18:07
n-Propylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 18:07
Naphthalene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 18:07
o-Xylene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 18:07
sec-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 18:07
Styrene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 18:07
tert-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 18:07
Tetrachloroethene	**4.8**		**0.30**	**1.0**	**1.0**	**ug/L**	1	06-Jun-2024 18:07
Toluene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 18:07
trans-1,2-Dichloroethene	**1.2**		**0.20**	**1.0**	**1.0**	**ug/L**	1	06-Jun-2024 18:07
trans-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 18:07
Trichloroethene	**7.8**		**0.20**	**1.0**	**1.0**	**ug/L**	1	06-Jun-2024 18:07
Trichlorofluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 18:07
Vinyl chloride	**7.6**		**0.20**	**1.0**	**1.0**	**ug/L**	1	06-Jun-2024 18:07
Surr: 1,2-Dichloroethane-d4	*114*			**0**	*81-118*	*%REC*	*1*	*06-Jun-2024 18:07*
Surr: 4-Bromofluorobenzene	*106*			**0**	*85-114*	*%REC*	*1*	*06-Jun-2024 18:07*
Surr: Dibromofluoromethane	*107*			**0**	*80-119*	*%REC*	*1*	*06-Jun-2024 18:07*
Surr: Toluene-d8	*110*			**0**	*89-112*	*%REC*	*1*	*06-Jun-2024 18:07*
METALS BY ICPMS BY SW6020A		**Method:SW6020A**				Prep:SW3010A / 08-Jun-2024		Analyst: JC
Arsenic	**0.00894**		**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	12-Jun-2024 11:43

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 03-Jul-24

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**
Project: LHAAP-58 WorkOrder:HS24051959
Sample ID: 35AWW08_052824 Lab ID:HS24051959-11
Collection Date: 28-May-2024 08:10 Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
1,1,1,2-Tetrachloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 18:29
1,1,1-Trichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 18:29
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 18:29
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 18:29
1,1-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 18:29
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 18:29
1,1-Dichloropropene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 18:29
1,2,3-Trichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 18:29
1,2,3-Trichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 18:29
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 18:29
1,2,4-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 18:29
1,2-Dibromo-3-chloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 18:29
1,2-Dibromoethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 18:29
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 18:29
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 18:29
1,2-Dichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 18:29
1,3,5-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 18:29
1,3-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 18:29
1,3-Dichloropropane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 18:29
1,4-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 18:29
2,2-Dichloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 18:29
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	06-Jun-2024 18:29
2-Chlorotoluene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 18:29
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	06-Jun-2024 18:29
4-Chlorotoluene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 18:29
4-Isopropyltoluene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 18:29
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	06-Jun-2024 18:29
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	06-Jun-2024 18:29
Benzene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 18:29
Bromobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 18:29
Bromochloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 18:29
Bromodichloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 18:29
Bromoform	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 18:29
Bromomethane	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 18:29
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	06-Jun-2024 18:29
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 18:29
Chlorobenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 18:29
Chloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 18:29
Chloroform	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 18:29

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

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ALS Houston, US Date: 03-Jul-24

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**
Project: LHAAP-58 WorkOrder:HS24051959
Sample ID: 35AWW08_052824 Lab ID:HS24051959-11
Collection Date: 28-May-2024 08:10 Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: TS
Chloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 18:29
cis-1,2-Dichloroethene	**4.3**		**0.20**	**1.0**	**1.0**	**ug/L**	1	06-Jun-2024 18:29
cis-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 18:29
Dibromochloromethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 18:29
Dibromomethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 18:29
Dichlorodifluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 18:29
Ethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 18:29
Hexachlorobutadiene	1.0	U	1.0	1.0	1.0	ug/L	1	06-Jun-2024 18:29
Isopropylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 18:29
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	06-Jun-2024 18:29
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	06-Jun-2024 18:29
n-Butylbenzene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 18:29
n-Propylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 18:29
Naphthalene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 18:29
o-Xylene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 18:29
sec-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 18:29
Styrene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 18:29
tert-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 18:29
Tetrachloroethene	**2.3**		**0.30**	**1.0**	**1.0**	**ug/L**	1	06-Jun-2024 18:29
Toluene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 18:29
trans-1,2-Dichloroethene	**2.1**		**0.20**	**1.0**	**1.0**	**ug/L**	1	06-Jun-2024 18:29
trans-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 18:29
Trichloroethene	**2.8**		**0.20**	**1.0**	**1.0**	**ug/L**	1	06-Jun-2024 18:29
Trichlorofluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 18:29
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 18:29
Surr: 1,2-Dichloroethane-d4	*113*			**0**	*81-118*	*%REC*	*1*	*06-Jun-2024 18:29*
Surr: 4-Bromofluorobenzene	*103*			**0**	*85-114*	*%REC*	*1*	*06-Jun-2024 18:29*
Surr: Dibromofluoromethane	*106*			**0**	*80-119*	*%REC*	*1*	*06-Jun-2024 18:29*
Surr: Toluene-d8	*108*			**0**	*89-112*	*%REC*	*1*	*06-Jun-2024 18:29*
METALS BY ICPMS BY SW6020A		**Method:SW6020A**				Prep:SW3010A / 08-Jun-2024		Analyst: JC
Arsenic	**0.0266**		**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	12-Jun-2024 11:51

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 03-Jul-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
Sample ID: 35AWW01_052824
Collection Date: 28-May-2024 08:50

ANALYTICAL REPORT
WorkOrder:HS24051959
Lab ID:HS24051959-12
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
1,1,1,2-Tetrachloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 18:50
1,1,1-Trichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 18:50
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 18:50
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 18:50
1,1-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 18:50
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 18:50
1,1-Dichloropropene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 18:50
1,2,3-Trichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 18:50
1,2,3-Trichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 18:50
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 18:50
1,2,4-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 18:50
1,2-Dibromo-3-chloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 18:50
1,2-Dibromoethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 18:50
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 18:50
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 18:50
1,2-Dichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 18:50
1,3,5-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 18:50
1,3-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 18:50
1,3-Dichloropropane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 18:50
1,4-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 18:50
2,2-Dichloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 18:50
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	06-Jun-2024 18:50
2-Chlorotoluene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 18:50
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	06-Jun-2024 18:50
4-Chlorotoluene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 18:50
4-Isopropyltoluene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 18:50
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	06-Jun-2024 18:50
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	06-Jun-2024 18:50
Benzene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 18:50
Bromobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 18:50
Bromochloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 18:50
Bromodichloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 18:50
Bromoform	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 18:50
Bromomethane	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 18:50
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	06-Jun-2024 18:50
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 18:50
Chlorobenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 18:50
Chloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 18:50
Chloroform	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 18:50

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 03-Jul-24

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**
Project: LHAAP-58 WorkOrder:HS24051959
Sample ID: 35AWW01_052824 Lab ID:HS24051959-12
Collection Date: 28-May-2024 08:50 Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: TS
Chloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 18:50
cis-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 18:50
cis-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 18:50
Dibromochloromethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 18:50
Dibromomethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 18:50
Dichlorodifluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 18:50
Ethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 18:50
Hexachlorobutadiene	1.0	U	1.0	1.0	1.0	ug/L	1	06-Jun-2024 18:50
Isopropylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 18:50
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	06-Jun-2024 18:50
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	06-Jun-2024 18:50
n-Butylbenzene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 18:50
n-Propylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 18:50
Naphthalene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 18:50
o-Xylene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 18:50
sec-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 18:50
Styrene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 18:50
tert-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 18:50
Tetrachloroethene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 18:50
Toluene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 18:50
trans-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 18:50
trans-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 18:50
Trichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 18:50
Trichlorofluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 18:50
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 18:50
Surr: 1,2-Dichloroethane-d4	*112*			**0**	*81-118*	*%REC*	*1*	*06-Jun-2024 18:50*
Surr: 4-Bromofluorobenzene	*103*			**0**	*85-114*	*%REC*	*1*	*06-Jun-2024 18:50*
Surr: Dibromofluoromethane	*106*			**0**	*80-119*	*%REC*	*1*	*06-Jun-2024 18:50*
Surr: Toluene-d8	*109*			**0**	*89-112*	*%REC*	*1*	*06-Jun-2024 18:50*
METALS BY ICPMS BY SW6020A		**Method:SW6020A**				Prep:SW3010A / 08-Jun-2024		Analyst: JC
Arsenic	**0.000709**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	12-Jun-2024 11:53

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 03-Jul-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
Sample ID: 35AWW13_052824
Collection Date: 28-May-2024 14:50

ANALYTICAL REPORT
WorkOrder:HS24051959
Lab ID:HS24051959-13
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
1,1,1,2-Tetrachloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 19:12
1,1,1-Trichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 19:12
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 19:12
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 19:12
1,1-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 19:12
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 19:12
1,1-Dichloropropene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 19:12
1,2,3-Trichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 19:12
1,2,3-Trichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 19:12
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 19:12
1,2,4-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 19:12
1,2-Dibromo-3-chloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 19:12
1,2-Dibromoethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 19:12
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 19:12
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 19:12
1,2-Dichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 19:12
1,3,5-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 19:12
1,3-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 19:12
1,3-Dichloropropane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 19:12
1,4-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 19:12
2,2-Dichloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 19:12
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	06-Jun-2024 19:12
2-Chlorotoluene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 19:12
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	06-Jun-2024 19:12
4-Chlorotoluene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 19:12
4-Isopropyltoluene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 19:12
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	06-Jun-2024 19:12
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	06-Jun-2024 19:12
Benzene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 19:12
Bromobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 19:12
Bromochloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 19:12
Bromodichloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 19:12
Bromoform	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 19:12
Bromomethane	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 19:12
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	06-Jun-2024 19:12
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 19:12
Chlorobenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 19:12
Chloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 19:12
Chloroform	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 19:12

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

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ALS Houston, US Date: 03-Jul-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
Sample ID: 35AWW13_052824
Collection Date: 28-May-2024 14:50

ANALYTICAL REPORT
WorkOrder:HS24051959
Lab ID:HS24051959-13
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
Chloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 19:12
cis-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 19:12
cis-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 19:12
Dibromochloromethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 19:12
Dibromomethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 19:12
Dichlorodifluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 19:12
Ethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 19:12
Hexachlorobutadiene	1.0	U	1.0	1.0	1.0	ug/L	1	06-Jun-2024 19:12
Isopropylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 19:12
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	06-Jun-2024 19:12
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	06-Jun-2024 19:12
n-Butylbenzene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 19:12
n-Propylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 19:12
Naphthalene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 19:12
o-Xylene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 19:12
sec-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 19:12
Styrene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 19:12
tert-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 19:12
Tetrachloroethene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 19:12
Toluene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 19:12
trans-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 19:12
trans-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 19:12
Trichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 19:12
Trichlorofluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 19:12
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 19:12
Surr: 1,2-Dichloroethane-d4	*112*			**0**	*81-118*	*%REC*	*1*	*06-Jun-2024 19:12*
Surr: 4-Bromofluorobenzene	*103*			**0**	*85-114*	*%REC*	*1*	*06-Jun-2024 19:12*
Surr: Dibromofluoromethane	*105*			**0**	*80-119*	*%REC*	*1*	*06-Jun-2024 19:12*
Surr: Toluene-d8	*107*			**0**	*89-112*	*%REC*	*1*	*06-Jun-2024 19:12*

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 03-Jul-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
Sample ID: 35AWW10_052824
Collection Date: 28-May-2024 14:50

ANALYTICAL REPORT
WorkOrder:HS24051959
Lab ID:HS24051959-14
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
1,1,1,2-Tetrachloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	10-Jun-2024 13:02
1,1,1-Trichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	10-Jun-2024 13:02
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	10-Jun-2024 13:02
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	10-Jun-2024 13:02
1,1-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	10-Jun-2024 13:02
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	10-Jun-2024 13:02
1,1-Dichloropropene	1.0	U	0.30	1.0	1.0	ug/L	1	10-Jun-2024 13:02
1,2,3-Trichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	10-Jun-2024 13:02
1,2,3-Trichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	10-Jun-2024 13:02
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	10-Jun-2024 13:02
1,2,4-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	10-Jun-2024 13:02
1,2-Dibromo-3-chloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	10-Jun-2024 13:02
1,2-Dibromoethane	1.0	U	0.20	1.0	1.0	ug/L	1	10-Jun-2024 13:02
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	10-Jun-2024 13:02
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	10-Jun-2024 13:02
1,2-Dichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	10-Jun-2024 13:02
1,3,5-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	10-Jun-2024 13:02
1,3-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	10-Jun-2024 13:02
1,3-Dichloropropane	1.0	U	0.30	1.0	1.0	ug/L	1	10-Jun-2024 13:02
1,4-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	10-Jun-2024 13:02
2,2-Dichloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	10-Jun-2024 13:02
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	10-Jun-2024 13:02
2-Chlorotoluene	1.0	U	0.30	1.0	1.0	ug/L	1	10-Jun-2024 13:02
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	10-Jun-2024 13:02
4-Chlorotoluene	1.0	U	0.40	1.0	1.0	ug/L	1	10-Jun-2024 13:02
4-Isopropyltoluene	1.0	U	0.30	1.0	1.0	ug/L	1	10-Jun-2024 13:02
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	10-Jun-2024 13:02
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	10-Jun-2024 13:02
Benzene	1.0	U	0.20	1.0	1.0	ug/L	1	10-Jun-2024 13:02
Bromobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	10-Jun-2024 13:02
Bromochloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	10-Jun-2024 13:02
Bromodichloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	10-Jun-2024 13:02
Bromoform	1.0	U	0.40	1.0	1.0	ug/L	1	10-Jun-2024 13:02
Bromomethane	1.0	U	0.40	1.0	1.0	ug/L	1	10-Jun-2024 13:02
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	10-Jun-2024 13:02
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	ug/L	1	10-Jun-2024 13:02
Chlorobenzene	1.0	U	0.30	1.0	1.0	ug/L	1	10-Jun-2024 13:02
Chloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	10-Jun-2024 13:02
Chloroform	1.0	U	0.20	1.0	1.0	ug/L	1	10-Jun-2024 13:02

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

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ALS Houston, US Date: 03-Jul-24

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**
Project: LHAAP-58 WorkOrder:HS24051959
Sample ID: 35AWW10_052824 Lab ID:HS24051959-14
Collection Date: 28-May-2024 14:50 Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
Chloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	10-Jun-2024 13:02
cis-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	10-Jun-2024 13:02
cis-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	10-Jun-2024 13:02
Dibromochloromethane	1.0	U	0.30	1.0	1.0	ug/L	1	10-Jun-2024 13:02
Dibromomethane	1.0	U	0.20	1.0	1.0	ug/L	1	10-Jun-2024 13:02
Dichlorodifluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	10-Jun-2024 13:02
Ethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	10-Jun-2024 13:02
Hexachlorobutadiene	1.0	U	1.0	1.0	1.0	ug/L	1	10-Jun-2024 13:02
Isopropylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	10-Jun-2024 13:02
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	10-Jun-2024 13:02
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	10-Jun-2024 13:02
n-Butylbenzene	1.0	U	0.40	1.0	1.0	ug/L	1	10-Jun-2024 13:02
n-Propylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	10-Jun-2024 13:02
Naphthalene	1.0	U	0.30	1.0	1.0	ug/L	1	07-Jun-2024 07:55
o-Xylene	1.0	U	0.30	1.0	1.0	ug/L	1	10-Jun-2024 13:02
sec-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	10-Jun-2024 13:02
Styrene	1.0	U	0.30	1.0	1.0	ug/L	1	10-Jun-2024 13:02
tert-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	10-Jun-2024 13:02
Tetrachloroethene	1.0	U	0.30	1.0	1.0	ug/L	1	10-Jun-2024 13:02
Toluene	1.0	U	0.20	1.0	1.0	ug/L	1	10-Jun-2024 13:02
trans-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	10-Jun-2024 13:02
trans-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	10-Jun-2024 13:02
Trichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	10-Jun-2024 13:02
Trichlorofluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	10-Jun-2024 13:02
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	10-Jun-2024 13:02
Surr: 1,2-Dichloroethane-d4	*113*			**0**	*81-118*	*%REC*	*1*	*07-Jun-2024 07:55*
Surr: 1,2-Dichloroethane-d4	*113*			**0**	*81-118*	*%REC*	*1*	*10-Jun-2024 13:02*
Surr: 4-Bromofluorobenzene	*104*			**0**	*85-114*	*%REC*	*1*	*07-Jun-2024 07:55*
Surr: 4-Bromofluorobenzene	*112*			**0**	*85-114*	*%REC*	*1*	*10-Jun-2024 13:02*
Surr: Dibromofluoromethane	*104*			**0**	*80-119*	*%REC*	*1*	*07-Jun-2024 07:55*
Surr: Dibromofluoromethane	*107*			**0**	*80-119*	*%REC*	*1*	*10-Jun-2024 13:02*
Surr: Toluene-d8	*108*			**0**	*89-112*	*%REC*	*1*	*07-Jun-2024 07:55*
Surr: Toluene-d8	*114*	*S*		**0**	*89-112*	*%REC*	*1*	*10-Jun-2024 13:02*

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

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ALS Houston, US Date: 03-Jul-24

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**
Project: LHAAP-58 WorkOrder:HS24051959
Sample ID: LHSMW06_052824 Lab ID:HS24051959-15
Collection Date: 28-May-2024 16:10 Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
1,1,1,2-Tetrachloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 19:33
1,1,1-Trichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 19:33
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 19:33
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 19:33
1,1-Dichloroethane	**8.8**		**0.20**	**1.0**	**1.0**	**ug/L**	1	06-Jun-2024 19:33
1,1-Dichloroethene	**12**		**0.20**	**1.0**	**1.0**	**ug/L**	1	06-Jun-2024 19:33
1,1-Dichloropropene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 19:33
1,2,3-Trichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 19:33
1,2,3-Trichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 19:33
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 19:33
1,2,4-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 19:33
1,2-Dibromo-3-chloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 19:33
1,2-Dibromoethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 19:33
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 19:33
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 19:33
1,2-Dichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 19:33
1,3,5-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 19:33
1,3-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 19:33
1,3-Dichloropropane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 19:33
1,4-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 19:33
2,2-Dichloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 19:33
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	06-Jun-2024 19:33
2-Chlorotoluene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 19:33
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	06-Jun-2024 19:33
4-Chlorotoluene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 19:33
4-Isopropyltoluene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 19:33
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	06-Jun-2024 19:33
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	06-Jun-2024 19:33
Benzene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 19:33
Bromobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 19:33
Bromochloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 19:33
Bromodichloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 19:33
Bromoform	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 19:33
Bromomethane	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 19:33
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	06-Jun-2024 19:33
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 19:33
Chlorobenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 19:33
Chloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 19:33
Chloroform	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 19:33

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

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ALS Houston, US Date: 03-Jul-24

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**
Project: LHAAP-58 WorkOrder:HS24051959
Sample ID: LHSMW06_052824 Lab ID:HS24051959-15
Collection Date: 28-May-2024 16:10 Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: TS
Chloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 19:33
cis-1,2-Dichloroethene	**160**		**0.20**	**1.0**	**1.0**	**ug/L**	1	06-Jun-2024 19:33
cis-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 19:33
Dibromochloromethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 19:33
Dibromomethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 19:33
Dichlorodifluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 19:33
Ethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 19:33
Hexachlorobutadiene	1.0	U	1.0	1.0	1.0	ug/L	1	06-Jun-2024 19:33
Isopropylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 19:33
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	06-Jun-2024 19:33
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	06-Jun-2024 19:33
n-Butylbenzene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 19:33
n-Propylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 19:33
Naphthalene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 19:33
o-Xylene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 19:33
sec-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 19:33
Styrene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 19:33
tert-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 19:33
Tetrachloroethene	**2.6**		**0.30**	**1.0**	**1.0**	**ug/L**	1	06-Jun-2024 19:33
Toluene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 19:33
trans-1,2-Dichloroethene	**2.2**		**0.20**	**1.0**	**1.0**	**ug/L**	1	06-Jun-2024 19:33
trans-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 19:33
Trichloroethene	**19**		**0.20**	**1.0**	**1.0**	**ug/L**	1	06-Jun-2024 19:33
Trichlorofluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 19:33
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 19:33
Surr: 1,2-Dichloroethane-d4	*112*			**0**	*81-118*	*%REC*	*1*	*06-Jun-2024 19:33*
Surr: 4-Bromofluorobenzene	*103*			**0**	*85-114*	*%REC*	*1*	*06-Jun-2024 19:33*
Surr: Dibromofluoromethane	*104*			**0**	*80-119*	*%REC*	*1*	*06-Jun-2024 19:33*
Surr: Toluene-d8	*109*			**0**	*89-112*	*%REC*	*1*	*06-Jun-2024 19:33*
METALS BY ICPMS BY SW6020A		**Method:SW6020A**				Prep:SW3010A / 08-Jun-2024		Analyst: JC
Arsenic	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	12-Jun-2024 11:55

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

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ALS Houston, US Date: 03-Jul-24

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**
Project: LHAAP-58 WorkOrder:HS24051959
Sample ID: LHSMW06_052824_a Lab ID:HS24051959-16
Collection Date: 28-May-2024 16:10 Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
1,1,1,2-Tetrachloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 19:54
1,1,1-Trichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 19:54
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 19:54
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 19:54
1,1-Dichloroethane	**8.7**		**0.20**	**1.0**	**1.0**	**ug/L**	1	06-Jun-2024 19:54
1,1-Dichloroethene	**12**		**0.20**	**1.0**	**1.0**	**ug/L**	1	06-Jun-2024 19:54
1,1-Dichloropropene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 19:54
1,2,3-Trichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 19:54
1,2,3-Trichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 19:54
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 19:54
1,2,4-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 19:54
1,2-Dibromo-3-chloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 19:54
1,2-Dibromoethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 19:54
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 19:54
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 19:54
1,2-Dichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 19:54
1,3,5-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 19:54
1,3-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 19:54
1,3-Dichloropropane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 19:54
1,4-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 19:54
2,2-Dichloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 19:54
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	06-Jun-2024 19:54
2-Chlorotoluene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 19:54
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	06-Jun-2024 19:54
4-Chlorotoluene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 19:54
4-Isopropyltoluene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 19:54
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	06-Jun-2024 19:54
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	06-Jun-2024 19:54
Benzene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 19:54
Bromobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 19:54
Bromochloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 19:54
Bromodichloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 19:54
Bromoform	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 19:54
Bromomethane	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 19:54
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	06-Jun-2024 19:54
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 19:54
Chlorobenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 19:54
Chloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 19:54
Chloroform	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 19:54

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

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ALS Houston, US Date: 03-Jul-24

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**
Project: LHAAP-58 WorkOrder:HS24051959
Sample ID: LHSMW06_052824_a Lab ID:HS24051959-16
Collection Date: 28-May-2024 16:10 Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: TS
Chloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 19:54
cis-1,2-Dichloroethene	**160**		**0.20**	**1.0**	**1.0**	**ug/L**	1	06-Jun-2024 19:54
cis-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 19:54
Dibromochloromethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 19:54
Dibromomethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 19:54
Dichlorodifluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 19:54
Ethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 19:54
Hexachlorobutadiene	1.0	U	1.0	1.0	1.0	ug/L	1	06-Jun-2024 19:54
Isopropylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 19:54
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	06-Jun-2024 19:54
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	06-Jun-2024 19:54
n-Butylbenzene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 19:54
n-Propylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 19:54
Naphthalene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 19:54
o-Xylene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 19:54
sec-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 19:54
Styrene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 19:54
tert-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 19:54
Tetrachloroethene	**2.6**		**0.30**	**1.0**	**1.0**	**ug/L**	1	06-Jun-2024 19:54
Toluene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 19:54
trans-1,2-Dichloroethene	**2.3**		**0.20**	**1.0**	**1.0**	**ug/L**	1	06-Jun-2024 19:54
trans-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 19:54
Trichloroethene	**19**		**0.20**	**1.0**	**1.0**	**ug/L**	1	06-Jun-2024 19:54
Trichlorofluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 19:54
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 19:54
Surr: 1,2-Dichloroethane-d4	*110*			**0**	*81-118*	*%REC*	*1*	*06-Jun-2024 19:54*
Surr: 4-Bromofluorobenzene	*102*			**0**	*85-114*	*%REC*	*1*	*06-Jun-2024 19:54*
Surr: Dibromofluoromethane	*104*			**0**	*80-119*	*%REC*	*1*	*06-Jun-2024 19:54*
Surr: Toluene-d8	*106*			**0**	*89-112*	*%REC*	*1*	*06-Jun-2024 19:54*
METALS BY ICPMS BY SW6020A		**Method:SW6020A**				Prep:SW3010A / 08-Jun-2024		Analyst: JC
Arsenic	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	12-Jun-2024 11:57

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

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ALS Houston, US Date: 03-Jul-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
Sample ID: 35AWW16_052824
Collection Date: 28-May-2024 16:50

ANALYTICAL REPORT
WorkOrder:HS24051959
Lab ID:HS24051959-17
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
1,1,1,2-Tetrachloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 20:16
1,1,1-Trichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 20:16
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 20:16
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 20:16
1,1-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 20:16
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 20:16
1,1-Dichloropropene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 20:16
1,2,3-Trichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 20:16
1,2,3-Trichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 20:16
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 20:16
1,2,4-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 20:16
1,2-Dibromo-3-chloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 20:16
1,2-Dibromoethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 20:16
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 20:16
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 20:16
1,2-Dichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 20:16
1,3,5-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 20:16
1,3-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 20:16
1,3-Dichloropropane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 20:16
1,4-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 20:16
2,2-Dichloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 20:16
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	06-Jun-2024 20:16
2-Chlorotoluene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 20:16
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	06-Jun-2024 20:16
4-Chlorotoluene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 20:16
4-Isopropyltoluene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 20:16
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	06-Jun-2024 20:16
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	06-Jun-2024 20:16
Benzene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 20:16
Bromobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 20:16
Bromochloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 20:16
Bromodichloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 20:16
Bromoform	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 20:16
Bromomethane	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 20:16
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	06-Jun-2024 20:16
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 20:16
Chlorobenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 20:16
Chloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 20:16
Chloroform	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 20:16

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 03-Jul-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
Sample ID: 35AWW16_052824
Collection Date: 28-May-2024 16:50

ANALYTICAL REPORT
WorkOrder:HS24051959
Lab ID:HS24051959-17
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
Chloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 20:16
cis-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 20:16
cis-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 20:16
Dibromochloromethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 20:16
Dibromomethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 20:16
Dichlorodifluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 20:16
Ethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 20:16
Hexachlorobutadiene	1.0	U	1.0	1.0	1.0	ug/L	1	06-Jun-2024 20:16
Isopropylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 20:16
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	06-Jun-2024 20:16
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	06-Jun-2024 20:16
n-Butylbenzene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 20:16
n-Propylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 20:16
Naphthalene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 20:16
o-Xylene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 20:16
sec-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 20:16
Styrene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 20:16
tert-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 20:16
Tetrachloroethene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 20:16
Toluene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 20:16
trans-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 20:16
trans-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 20:16
Trichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 20:16
Trichlorofluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 20:16
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 20:16
Surr: 1,2-Dichloroethane-d4	*113*			**0**	*81-118*	*%REC*	*1*	*06-Jun-2024 20:16*
Surr: 4-Bromofluorobenzene	*104*			**0**	*85-114*	*%REC*	*1*	*06-Jun-2024 20:16*
Surr: Dibromofluoromethane	*106*			**0**	*80-119*	*%REC*	*1*	*06-Jun-2024 20:16*
Surr: Toluene-d8	*110*			**0**	*89-112*	*%REC*	*1*	*06-Jun-2024 20:16*

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 03-Jul-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
Sample ID: Trip Blank
Collection Date: 29-May-2024 00:00

ANALYTICAL REPORT
WorkOrder:HS24051959
Lab ID:HS24051959-18
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
1,1,1,2-Tetrachloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 14:49
1,1,1-Trichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 14:49
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 14:49
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 14:49
1,1-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 14:49
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 14:49
1,1-Dichloropropene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 14:49
1,2,3-Trichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 14:49
1,2,3-Trichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 14:49
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 14:49
1,2,4-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 14:49
1,2-Dibromo-3-chloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 14:49
1,2-Dibromoethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 14:49
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 14:49
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 14:49
1,2-Dichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 14:49
1,3,5-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 14:49
1,3-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 14:49
1,3-Dichloropropane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 14:49
1,4-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 14:49
2,2-Dichloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 14:49
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	06-Jun-2024 14:49
2-Chlorotoluene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 14:49
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	06-Jun-2024 14:49
4-Chlorotoluene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 14:49
4-Isopropyltoluene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 14:49
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	06-Jun-2024 14:49
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	06-Jun-2024 14:49
Benzene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 14:49
Bromobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 14:49
Bromochloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 14:49
Bromodichloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 14:49
Bromoform	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 14:49
Bromomethane	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 14:49
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	06-Jun-2024 14:49
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	ug/L	1	06-Jun-2024 14:49
Chlorobenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 14:49
Chloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 14:49
Chloroform	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 14:49

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 03-Jul-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
Sample ID: Trip Blank
Collection Date: 29-May-2024 00:00

ANALYTICAL REPORT
WorkOrder:HS24051959
Lab ID:HS24051959-18
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
Chloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 14:49
cis-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 14:49
cis-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 14:49
Dibromochloromethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 14:49
Dibromomethane	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 14:49
Dichlorodifluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 14:49
Ethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 14:49
Hexachlorobutadiene	1.0	U	1.0	1.0	1.0	ug/L	1	06-Jun-2024 14:49
Isopropylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 14:49
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	06-Jun-2024 14:49
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	06-Jun-2024 14:49
n-Butylbenzene	1.0	U	0.40	1.0	1.0	ug/L	1	06-Jun-2024 14:49
n-Propylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 14:49
Naphthalene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 14:49
o-Xylene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 14:49
sec-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 14:49
Styrene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 14:49
tert-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 14:49
Tetrachloroethene	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 14:49
Toluene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 14:49
trans-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 14:49
trans-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 14:49
Trichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 14:49
Trichlorofluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	06-Jun-2024 14:49
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	06-Jun-2024 14:49
Surr: 1,2-Dichloroethane-d4	*108*			**0**	*81-118*	*%REC*	*1*	*06-Jun-2024 14:49*
Surr: 4-Bromofluorobenzene	*103*			**0**	*85-114*	*%REC*	*1*	*06-Jun-2024 14:49*
Surr: Dibromofluoromethane	*101*			**0**	*80-119*	*%REC*	*1*	*06-Jun-2024 14:49*
Surr: Toluene-d8	*108*			**0**	*89-112*	*%REC*	*1*	*06-Jun-2024 14:49*

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

Weight / Prep Log

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS24051959

Batch ID: 213215 **Start Date:** 08 Jun 2024 11:00 **End Date:** 08 Jun 2024 11:00
Method: WATER - SW3010A **Prep Code:** 3010A

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24051959-05		10 (mL)	10 (mL)	1	120 plastic HNO3
HS24051959-06		10 (mL)	10 (mL)	1	120 plastic HNO3
HS24051959-10		10 (mL)	10 (mL)	1	120 plastic HNO3
HS24051959-11		10 (mL)	10 (mL)	1	120 plastic HNO3
HS24051959-12		10 (mL)	10 (mL)	1	120 plastic HNO3
HS24051959-15		10 (mL)	10 (mL)	1	120 plastic HNO3
HS24051959-16		10 (mL)	10 (mL)	1	120 plastic HNO3

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS24051959

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 213215 (0)	**Test Name :** METALS BY ICPMS BY SW6020A				**Matrix:** Water	
HS24051959-05	35AWW09_052924	29 May 2024 09:40		08 Jun 2024 11:00	12 Jun 2024 11:30	1
HS24051959-06	35AWW09_052924_a	29 May 2024 09:40		08 Jun 2024 11:00	12 Jun 2024 11:41	1
HS24051959-10	03WW01_052824	28 May 2024 07:30		08 Jun 2024 11:00	12 Jun 2024 11:43	1
HS24051959-11	35AWW08_052824	28 May 2024 08:10		08 Jun 2024 11:00	12 Jun 2024 11:51	1
HS24051959-12	35AWW01_052824	28 May 2024 08:50		08 Jun 2024 11:00	12 Jun 2024 11:53	1
HS24051959-15	LHSMW06_052824	28 May 2024 16:10		08 Jun 2024 11:00	12 Jun 2024 11:55	1
HS24051959-16	LHSMW06_052824_a	28 May 2024 16:10		08 Jun 2024 11:00	12 Jun 2024 11:57	1
Batch ID: R468713 (0)	**Test Name :** VOLATILES ORGANICS BY METHOD 8260C				**Matrix:** Water	
HS24051959-01	35AWW15_052924	29 May 2024 06:50			06 Jun 2024 15:11	1
HS24051959-02	35AWW26_052924	29 May 2024 07:30			06 Jun 2024 15:32	1
HS24051959-03	35AWW05_052924	29 May 2024 08:15			06 Jun 2024 15:54	1
HS24051959-04	35AWW24_052924	29 May 2024 08:55			06 Jun 2024 16:15	1
HS24051959-05	35AWW09_052924	29 May 2024 09:40			06 Jun 2024 16:39	5
HS24051959-06	35AWW09_052924_a	29 May 2024 09:40			06 Jun 2024 17:03	5
HS24051959-07	35AWW21_052924	29 May 2024 10:25			06 Jun 2024 12:37	1
HS24051959-08	35AWW22_052924	29 May 2024 11:10			06 Jun 2024 17:24	1
HS24051959-09	35AWW12_052924	29 May 2024 11:20			06 Jun 2024 17:46	1
HS24051959-10	03WW01_052824	28 May 2024 07:30			06 Jun 2024 18:07	1
HS24051959-11	35AWW08_052824	28 May 2024 08:10			06 Jun 2024 18:29	1
HS24051959-12	35AWW01_052824	28 May 2024 08:50			06 Jun 2024 18:50	1
HS24051959-13	35AWW13_052824	28 May 2024 14:50			06 Jun 2024 19:12	1
HS24051959-15	LHSMW06_052824	28 May 2024 16:10			06 Jun 2024 19:33	1
HS24051959-16	LHSMW06_052824_a	28 May 2024 16:10			06 Jun 2024 19:54	1
HS24051959-17	35AWW16_052824	28 May 2024 16:50			06 Jun 2024 20:16	1
HS24051959-18	Trip Blank	29 May 2024 00:00			06 Jun 2024 14:49	1
Batch ID: R468791 (0)	**Test Name :** VOLATILES ORGANICS BY METHOD 8260C				**Matrix:** Water	
HS24051959-14	35AWW10_052824	28 May 2024 14:50			07 Jun 2024 07:55	1
Batch ID: R468948 (0)	**Test Name :** VOLATILES ORGANICS BY METHOD 8260C				**Matrix:** Water	
HS24051959-05	35AWW09_052924	29 May 2024 09:40			09 Jun 2024 15:28	1
HS24051959-06	35AWW09_052924_a	29 May 2024 09:40			09 Jun 2024 15:49	1
Batch ID: R469054 (0)	**Test Name :** VOLATILES ORGANICS BY METHOD 8260C				**Matrix:** Water	
HS24051959-14	35AWW10_052824	28 May 2024 14:50			10 Jun 2024 13:02	1
Batch ID: R469280 (0)	**Test Name :** VOLATILES ORGANICS BY METHOD 8260C				**Matrix:** Water	
HS24051959-05	35AWW09_052924	29 May 2024 09:40			12 Jun 2024 20:29	1
HS24051959-06	35AWW09_052924_a	29 May 2024 09:40			12 Jun 2024 20:52	1

Revision: 1

ALS Houston, US Date: 03-Jul-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS24051959

QC BATCH REPORT

Batch ID: 213215 (0) **Instrument: ICPMS06** **Method: METALS BY ICPMS BY SW6020A**

MBLK Sample ID: **MBLK-213215** Units: **mg/L** Analysis Date: **12-Jun-2024 11:26**
Client ID: Run ID: **ICPMS06_469167** SeqNo: **8065559** PrepDate: **08-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.00125	0.00500								U

LCS Sample ID: **LCS-213215** Units: **mg/L** Analysis Date: **12-Jun-2024 11:28**
Client ID: Run ID: **ICPMS06_469167** SeqNo: **8065560** PrepDate: **08-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.04681	0.00500	0.05	0	93.6	84 - 116				

MS Sample ID: **HS24051959-05MS** Units: **mg/L** Analysis Date: **12-Jun-2024 11:34**
Client ID: **35AWW09_052924** Run ID: **ICPMS06_469167** SeqNo: **8065563** PrepDate: **08-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.04685	0.00500	0.05	0.000521	92.7	84 - 116				

MSD Sample ID: **HS24051959-05MSD** Units: **mg/L** Analysis Date: **12-Jun-2024 11:37**
Client ID: **35AWW09_052924** Run ID: **ICPMS06_469167** SeqNo: **8065564** PrepDate: **08-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.04641	0.00500	0.05	0.000521	91.8	84 - 116	0.04685	0.946	20	

PDS Sample ID: **HS24051959-05PDS** Units: **mg/L** Analysis Date: **12-Jun-2024 11:39**
Client ID: **35AWW09_052924** Run ID: **ICPMS06_469167** SeqNo: **8065565** PrepDate: **08-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.1063	0.00500	0.1	0.000521	106	80 - 120				

SD Sample ID: **HS24051959-05SD** Units: **mg/L** Analysis Date: **12-Jun-2024 11:33**
Client ID: **35AWW09_052924** Run ID: **ICPMS06_469167** SeqNo: **8065562** PrepDate: **08-Jun-2024** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Arsenic	0.00625	0.0250					0.000521	0	10	U

The following samples were analyzed in this batch: HS24051959-05 HS24051959-06 HS24051959-10 HS24051959-11 HS24051959-12 HS24051959-15 HS24051959-16

Revision: 1

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Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS24051959

QC BATCH REPORT

Batch ID: R468713 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MBLK Sample ID: **VBLKW-240606** Units: **ug/L** Analysis Date: **06-Jun-2024 12:16**
Client ID: Run ID: **VOA9_468713** SeqNo: **8051733** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	1.0	1.0								U
1,1,1-Trichloroethane	1.0	1.0								U
1,1,2,2-Tetrachloroethane	1.0	1.0								U
1,1,2-Trichloroethane	1.0	1.0								U
1,1-Dichloroethane	1.0	1.0								U
1,1-Dichloroethene	1.0	1.0								U
1,1-Dichloropropene	1.0	1.0								U
1,2,3-Trichlorobenzene	1.0	1.0								U
1,2,3-Trichloropropane	1.0	1.0								U
1,2,4-Trichlorobenzene	1.0	1.0								U
1,2,4-Trimethylbenzene	1.0	1.0								U
1,2-Dibromo-3-chloropropane	1.0	1.0								U
1,2-Dibromoethane	1.0	1.0								U
1,2-Dichlorobenzene	1.0	1.0								U
1,2-Dichloroethane	1.0	1.0								U
1,2-Dichloropropane	1.0	1.0								U
1,3,5-Trimethylbenzene	1.0	1.0								U
1,3-Dichlorobenzene	1.0	1.0								U
1,3-Dichloropropane	1.0	1.0								U
1,4-Dichlorobenzene	1.0	1.0								U
2,2-Dichloropropane	1.0	1.0								U
2-Butanone	1.0	2.0								U
2-Chlorotoluene	1.0	1.0								U
2-Hexanone	1.0	2.0								U
4-Chlorotoluene	1.0	1.0								U
4-Isopropyltoluene	1.0	1.0								U
4-Methyl-2-pentanone	1.0	2.0								U
Acetone	1.0	2.0								U
Benzene	1.0	1.0								U
Bromobenzene	1.0	1.0								U
Bromochloromethane	1.0	1.0								U
Bromodichloromethane	1.0	1.0								U
Bromoform	1.0	1.0								U
Bromomethane	1.0	1.0								U

Revision: 1

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS24051959

QC BATCH REPORT

Batch ID: R468713 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MBLK Sample ID: **VBLKW-240606** Units: **ug/L** Analysis Date: **06-Jun-2024 12:16**
Client ID: Run ID: **VOA9_468713** SeqNo: **8051733** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	1.0	2.0								U
Carbon tetrachloride	1.0	1.0								U
Chlorobenzene	1.0	1.0								U
Chloroethane	1.0	1.0								U
Chloroform	1.0	1.0								U
Chloromethane	1.0	1.0								U
cis-1,2-Dichloroethene	1.0	1.0								U
cis-1,3-Dichloropropene	1.0	1.0								U
Dibromochloromethane	1.0	1.0								U
Dibromomethane	1.0	1.0								U
Dichlorodifluoromethane	1.0	1.0								U
Ethylbenzene	1.0	1.0								U
Hexachlorobutadiene	1.0	1.0								U
Isopropylbenzene	1.0	1.0								U
m,p-Xylene	1.0	2.0								U
Methylene chloride	1.0	2.0								U
Naphthalene	1.0	1.0								U
n-Butylbenzene	1.0	1.0								U
n-Propylbenzene	1.0	1.0								U
o-Xylene	1.0	1.0								U
sec-Butylbenzene	1.0	1.0								U
Styrene	1.0	1.0								U
tert-Butylbenzene	1.0	1.0								U
Tetrachloroethene	1.0	1.0								U
Toluene	1.0	1.0								U
trans-1,2-Dichloroethene	1.0	1.0								U
trans-1,3-Dichloropropene	1.0	1.0								U
Trichloroethene	1.0	1.0								U
Trichlorofluoromethane	1.0	1.0								U
Vinyl chloride	1.0	1.0								U
Surr: 1,2-Dichloroethane-d4	*53.89*	*35*	*50*	*0*	*108*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*52.12*	*35*	*50*	*0*	*104*	*85 - 114*				
Surr: Dibromofluoromethane	*50.98*	*35*	*50*	*0*	*102*	*80 - 119*				
Surr: Toluene-d8	*54.25*	*35*	*50*	*0*	*108*	*89 - 112*				

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS24051959

QC BATCH REPORT

Batch ID: R468713 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

LCS Sample ID: **VLCSW-240606** Units: **ug/L** Analysis Date: **06-Jun-2024 11:12**
Client ID: Run ID: **VOA9_468713** SeqNo: **8051731** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	17.83	1.0	20	0	89.2	78 - 124				
1,1,1-Trichloroethane	18.79	1.0	20	0	93.9	74 - 131				
1,1,2,2-Tetrachloroethane	18.7	1.0	20	0	93.5	71 - 121				
1,1,2-Trichloroethane	19.26	1.0	20	0	96.3	80 - 119				
1,1-Dichloroethane	19.38	1.0	20	0	96.9	77 - 125				
1,1-Dichloroethene	19.5	1.0	20	0	97.5	71 - 131				
1,1-Dichloropropene	18.88	1.0	20	0	94.4	78 - 125				
1,2,3-Trichlorobenzene	19.33	1.0	20	0	96.7	69 - 129				
1,2,3-Trichloropropane	18.11	1.0	20	0	90.6	73 - 122				
1,2,4-Trichlorobenzene	19.15	1.0	20	0	95.8	69 - 130				
1,2,4-Trimethylbenzene	20.56	1.0	20	0	103	76 - 124				
1,2-Dibromo-3-chloropropane	16.66	1.0	20	0	83.3	62 - 128				
1,2-Dibromoethane	18.15	1.0	20	0	90.8	77 - 121				
1,2-Dichlorobenzene	19.56	1.0	20	0	97.8	80 - 119				
1,2-Dichloroethane	18.95	1.0	20	0	94.7	73 - 128				
1,2-Dichloropropane	18.58	1.0	20	0	92.9	78 - 122				
1,3,5-Trimethylbenzene	21.04	1.0	20	0	105	75 - 124				
1,3-Dichlorobenzene	18.73	1.0	20	0	93.7	80 - 119				
1,3-Dichloropropane	18.25	1.0	20	0	91.3	80 - 119				
1,4-Dichlorobenzene	19.84	1.0	20	0	99.2	79 - 118				
2,2-Dichloropropane	18.94	1.0	20	0	94.7	60 - 139				
2-Butanone	38.35	2.0	40	0	95.9	56 - 143				
2-Chlorotoluene	19.28	1.0	20	0	96.4	79 - 122				
2-Hexanone	37.64	2.0	40	0	94.1	57 - 139				
4-Chlorotoluene	19.38	1.0	20	0	96.9	78 - 122				
4-Isopropyltoluene	21.07	1.0	20	0	105	77 - 127				
4-Methyl-2-pentanone	33.7	2.0	40	0	84.3	67 - 130				
Acetone	37.74	2.0	40	0	94.4	39 - 160				
Benzene	19.32	1.0	20	0	96.6	79 - 120				
Bromobenzene	19.64	1.0	20	0	98.2	80 - 120				
Bromochloromethane	19.46	1.0	20	0	97.3	78 - 123				
Bromodichloromethane	16.6	1.0	20	0	83.0	79 - 125				
Bromoform	15.87	1.0	20	0	79.4	66 - 130				
Bromomethane	21.49	1.0	20	0	107	53 - 141				

Revision: 1

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS24051959

QC BATCH REPORT

Batch ID: R468713 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

LCS Sample ID: **VLCSW-240606** Units: **ug/L** Analysis Date: **06-Jun-2024 11:12**
Client ID: Run ID: **VOA9_468713** SeqNo: **8051731** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	37.28	2.0	40	0	93.2	64 - 133				
Carbon tetrachloride	17.97	1.0	20	0	89.9	72 - 136				
Chlorobenzene	19.44	1.0	20	0	97.2	82 - 118				
Chloroethane	20.21	1.0	20	0	101	60 - 138				
Chloroform	18.05	1.0	20	0	90.2	79 - 124				
Chloromethane	20.08	1.0	20	0	100	50 - 139				
cis-1,2-Dichloroethene	19.11	1.0	20	0	95.5	78 - 123				
cis-1,3-Dichloropropene	17.03	1.0	20	0	85.1	75 - 124				
Dibromochloromethane	16.85	1.0	20	0	84.3	74 - 126				
Dibromomethane	18.81	1.0	20	0	94.0	79 - 123				
Dichlorodifluoromethane	21.56	1.0	20	0	108	32 - 152				
Ethylbenzene	18.74	1.0	20	0	93.7	79 - 121				
Hexachlorobutadiene	20.47	1.0	20	0	102	66 - 134				
Isopropylbenzene	20.35	1.0	20	0	102	72 - 131				
m,p-Xylene	38.75	2.0	40	0	96.9	80 - 121				
Methylene chloride	19.32	2.0	20	0	96.6	74 - 124				
Naphthalene	17.62	1.0	20	0	88.1	61 - 128				
n-Butylbenzene	20.03	1.0	20	0	100	75 - 128				
n-Propylbenzene	20.04	1.0	20	0	100	76 - 126				
o-Xylene	19.12	1.0	20	0	95.6	78 - 122				
sec-Butylbenzene	21.13	1.0	20	0	106	77 - 126				
Styrene	19.42	1.0	20	0	97.1	78 - 123				
tert-Butylbenzene	20.65	1.0	20	0	103	78 - 124				
Tetrachloroethene	19.31	1.0	20	0	96.5	74 - 129				
Toluene	18.75	1.0	20	0	93.8	80 - 121				
trans-1,2-Dichloroethene	19.65	1.0	20	0	98.2	75 - 124				
trans-1,3-Dichloropropene	16.34	1.0	20	0	81.7	73 - 127				
Trichloroethene	18.39	1.0	20	0	91.9	79 - 123				
Trichlorofluoromethane	20.19	1.0	20	0	101	65 - 141				
Vinyl chloride	19.96	1.0	20	0	99.8	58 - 137				
Surr: 1,2-Dichloroethane-d4	*52.45*	*35*	*50*	*0*	*105*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*55.8*	*35*	*50*	*0*	*112*	*85 - 114*				
Surr: Dibromofluoromethane	*52.92*	*35*	*50*	*0*	*106*	*80 - 119*				
Surr: Toluene-d8	*54.56*	*35*	*50*	*0*	*109*	*89 - 112*				

Revision: 1

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS24051959

QC BATCH REPORT

Batch ID: R468713 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

LCSD Sample ID: **VLCSDW-240606** Units: **ug/L** Analysis Date: **06-Jun-2024 11:33**
Client ID: Run ID: **VOA9_468713** SeqNo: **8051732** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	16.64	1.0	20	0	83.2	78 - 124	17.83	6.92	20	
1,1,1-Trichloroethane	17.43	1.0	20	0	87.1	74 - 131	18.79	7.49	20	
1,1,2,2-Tetrachloroethane	17.82	1.0	20	0	89.1	71 - 121	18.7	4.83	20	
1,1,2-Trichloroethane	18.14	1.0	20	0	90.7	80 - 119	19.26	6.03	20	
1,1-Dichloroethane	17.59	1.0	20	0	88.0	77 - 125	19.38	9.69	20	
1,1-Dichloroethene	17.45	1.0	20	0	87.2	71 - 131	19.5	11.1	20	
1,1-Dichloropropene	16.83	1.0	20	0	84.1	78 - 125	18.88	11.5	20	
1,2,3-Trichlorobenzene	17.41	1.0	20	0	87.1	69 - 129	19.33	10.4	20	
1,2,3-Trichloropropane	17.27	1.0	20	0	86.3	73 - 122	18.11	4.79	20	
1,2,4-Trichlorobenzene	17.36	1.0	20	0	86.8	69 - 130	19.15	9.8	20	
1,2,4-Trimethylbenzene	18.48	1.0	20	0	92.4	76 - 124	20.56	10.7	20	
1,2-Dibromo-3-chloropropane	15.58	1.0	20	0	77.9	62 - 128	16.66	6.67	20	
1,2-Dibromoethane	17.47	1.0	20	0	87.3	77 - 121	18.15	3.85	20	
1,2-Dichlorobenzene	18.4	1.0	20	0	92.0	80 - 119	19.56	6.1	20	
1,2-Dichloroethane	17.88	1.0	20	0	89.4	73 - 128	18.95	5.77	20	
1,2-Dichloropropane	17.08	1.0	20	0	85.4	78 - 122	18.58	8.45	20	
1,3,5-Trimethylbenzene	19.24	1.0	20	0	96.2	75 - 124	21.04	8.96	20	
1,3-Dichlorobenzene	17.49	1.0	20	0	87.4	80 - 119	18.73	6.88	20	
1,3-Dichloropropane	17.85	1.0	20	0	89.3	80 - 119	18.25	2.21	20	
1,4-Dichlorobenzene	18.51	1.0	20	0	92.5	79 - 118	19.84	6.93	20	
2,2-Dichloropropane	16.7	1.0	20	0	83.5	60 - 139	18.94	12.6	20	
2-Butanone	35.86	2.0	40	0	89.7	56 - 143	38.35	6.71	20	
2-Chlorotoluene	18.02	1.0	20	0	90.1	79 - 122	19.28	6.77	20	
2-Hexanone	36.25	2.0	40	0	90.6	57 - 139	37.64	3.77	20	
4-Chlorotoluene	18.06	1.0	20	0	90.3	78 - 122	19.38	7.05	20	
4-Isopropyltoluene	19.21	1.0	20	0	96.1	77 - 127	21.07	9.22	20	
4-Methyl-2-pentanone	33.2	2.0	40	0	83.0	67 - 130	33.7	1.49	20	
Acetone	38.98	2.0	40	0	97.4	39 - 160	37.74	3.21	20	
Benzene	17.78	1.0	20	0	88.9	79 - 120	19.32	8.32	20	
Bromobenzene	18.27	1.0	20	0	91.3	80 - 120	19.64	7.25	20	
Bromochloromethane	17.93	1.0	20	0	89.6	78 - 123	19.46	8.19	20	
Bromodichloromethane	16.17	1.0	20	0	80.9	79 - 125	16.6	2.6	20	
Bromoform	15.12	1.0	20	0	75.6	66 - 130	15.87	4.85	20	
Bromomethane	19.64	1.0	20	0	98.2	53 - 141	21.49	9.02	20	

Revision: 1

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS24051959

QC BATCH REPORT

Batch ID: R468713 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

LCSD Sample ID: **VLCSDW-240606** Units: **ug/L** Analysis Date: **06-Jun-2024 11:33**
Client ID: Run ID: **VOA9_468713** SeqNo: **8051732** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Carbon disulfide	33.72	2.0	40	0	84.3	64 - 133	37.28	10	20	
Carbon tetrachloride	16.63	1.0	20	0	83.2	72 - 136	17.97	7.75	20	
Chlorobenzene	18.43	1.0	20	0	92.1	82 - 118	19.44	5.34	20	
Chloroethane	17.67	1.0	20	0	88.4	60 - 138	20.21	13.4	20	
Chloroform	16.55	1.0	20	0	82.7	79 - 124	18.05	8.67	20	
Chloromethane	18.06	1.0	20	0	90.3	50 - 139	20.08	10.6	20	
cis-1,2-Dichloroethene	18.14	1.0	20	0	90.7	78 - 123	19.11	5.18	20	
cis-1,3-Dichloropropene	16.3	1.0	20	0	81.5	75 - 124	17.03	4.39	20	
Dibromochloromethane	16.31	1.0	20	0	81.6	74 - 126	16.85	3.27	20	
Dibromomethane	17.69	1.0	20	0	88.4	79 - 123	18.81	6.13	20	
Dichlorodifluoromethane	19.63	1.0	20	0	98.1	32 - 152	21.56	9.37	20	
Ethylbenzene	17.82	1.0	20	0	89.1	79 - 121	18.74	5	20	
Hexachlorobutadiene	18.23	1.0	20	0	91.2	66 - 134	20.47	11.6	20	
Isopropylbenzene	19.31	1.0	20	0	96.6	72 - 131	20.35	5.24	20	
m,p-Xylene	36.71	2.0	40	0	91.8	80 - 121	38.75	5.4	20	
Methylene chloride	18.04	2.0	20	0	90.2	74 - 124	19.32	6.89	20	
Naphthalene	16.46	1.0	20	0	82.3	61 - 128	17.62	6.84	20	
n-Butylbenzene	18.54	1.0	20	0	92.7	75 - 128	20.03	7.74	20	
n-Propylbenzene	18.42	1.0	20	0	92.1	76 - 126	20.04	8.44	20	
o-Xylene	18.16	1.0	20	0	90.8	78 - 122	19.12	5.11	20	
sec-Butylbenzene	19.49	1.0	20	0	97.4	77 - 126	21.13	8.1	20	
Styrene	18.58	1.0	20	0	92.9	78 - 123	19.42	4.47	20	
tert-Butylbenzene	18.64	1.0	20	0	93.2	78 - 124	20.65	10.2	20	
Tetrachloroethene	17.81	1.0	20	0	89.0	74 - 129	19.31	8.06	20	
Toluene	17.42	1.0	20	0	87.1	80 - 121	18.75	7.36	20	
trans-1,2-Dichloroethene	18.04	1.0	20	0	90.2	75 - 124	19.65	8.55	20	
trans-1,3-Dichloropropene	15.53	1.0	20	0	77.6	73 - 127	16.34	5.07	20	
Trichloroethene	17.12	1.0	20	0	85.6	79 - 123	18.39	7.11	20	
Trichlorofluoromethane	18.1	1.0	20	0	90.5	65 - 141	20.19	10.9	20	
Vinyl chloride	17.36	1.0	20	0	86.8	58 - 137	19.96	13.9	20	
Surr: 1,2-Dichloroethane-d4	*51.3*	*35*	*50*	*0*	*103*	*81 - 118*	*52.45*	*2.21*	*20*	
Surr: 4-Bromofluorobenzene	*55.46*	*35*	*50*	*0*	*111*	*85 - 114*	*55.8*	*0.622*	*20*	
Surr: Dibromofluoromethane	*50.86*	*35*	*50*	*0*	*102*	*80 - 119*	*52.92*	*3.97*	*20*	
Surr: Toluene-d8	*54.49*	*35*	*50*	*0*	*109*	*89 - 112*	*54.56*	*0.125*	*20*	

Revision: 1

ALS Houston, US Date: 03-Jul-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS24051959

QC BATCH REPORT

Batch ID: R468713 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MS Sample ID: **HS24051959-07MS** Units: **ug/L** Analysis Date: **06-Jun-2024 12:59**
Client ID: **35AWW21_052924** Run ID: **VOA9_468713** SeqNo: **8051735** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	15.26	1.0	20	0	76.3	78 - 124				S
1,1,1-Trichloroethane	16.47	1.0	20	0	82.3	74 - 131				
1,1,2,2-Tetrachloroethane	15.72	1.0	20	0	78.6	71 - 121				
1,1,2-Trichloroethane	15.91	1.0	20	0	79.6	80 - 119				S
1,1-Dichloroethane	20.68	1.0	20	4.004	83.4	77 - 125				
1,1-Dichloroethene	21.23	1.0	20	3.558	88.4	71 - 131				
1,1-Dichloropropene	15.96	1.0	20	0	79.8	78 - 125				
1,2,3-Trichlorobenzene	16.23	1.0	20	0	81.1	69 - 129				
1,2,3-Trichloropropane	15.74	1.0	20	0	78.7	73 - 122				
1,2,4-Trichlorobenzene	16.64	1.0	20	0	83.2	69 - 130				
1,2,4-Trimethylbenzene	17.79	1.0	20	0	89.0	76 - 124				
1,2-Dibromo-3-chloropropane	15.48	1.0	20	0	77.4	62 - 128				
1,2-Dibromoethane	14.92	1.0	20	0	74.6	77 - 121				S
1,2-Dichlorobenzene	17.39	1.0	20	0	87.0	80 - 119				
1,2-Dichloroethane	15.72	1.0	20	0	78.6	73 - 128				
1,2-Dichloropropane	15.41	1.0	20	0	77.0	78 - 122				S
1,3,5-Trimethylbenzene	18.69	1.0	20	0	93.5	75 - 124				
1,3-Dichlorobenzene	16.3	1.0	20	0	81.5	80 - 119				
1,3-Dichloropropane	15.48	1.0	20	0	77.4	80 - 119				S
1,4-Dichlorobenzene	17.69	1.0	20	0	88.4	79 - 118				
2,2-Dichloropropane	15.7	1.0	20	0	78.5	60 - 139				
2-Butanone	31.88	2.0	40	0	79.7	56 - 143				
2-Chlorotoluene	17.28	1.0	20	0	86.4	79 - 122				
2-Hexanone	35.7	2.0	40	0	89.3	57 - 139				
4-Chlorotoluene	17.5	1.0	20	0	87.5	78 - 122				
4-Isopropyltoluene	19.48	1.0	20	0	97.4	77 - 127				
4-Methyl-2-pentanone	31.09	2.0	40	0	77.7	67 - 130				
Acetone	30.52	2.0	40	0	76.3	39 - 160				
Benzene	16.11	1.0	20	0	80.5	79 - 120				
Bromobenzene	16.85	1.0	20	0	84.2	80 - 120				
Bromochloromethane	15.82	1.0	20	0	79.1	78 - 123				
Bromodichloromethane	13.83	1.0	20	0	69.2	79 - 125				S
Bromoform	13.67	1.0	20	0	68.4	66 - 130				
Bromomethane	16.83	1.0	20	0	84.2	53 - 141				

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS24051959

QC BATCH REPORT

Batch ID: R468713 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MS Sample ID: **HS24051959-07MS** Units: **ug/L** Analysis Date: **06-Jun-2024 12:59**
Client ID: **35AWW21_052924** Run ID: **VOA9_468713** SeqNo: **8051735** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	30.47	2.0	40	0	76.2	64 - 133				
Carbon tetrachloride	15.84	1.0	20	0	79.2	72 - 136				
Chlorobenzene	16.39	1.0	20	0	82.0	82 - 118				S
Chloroethane	16.45	1.0	20	0	82.2	60 - 138				
Chloroform	15.13	1.0	20	0	75.7	79 - 124				S
Chloromethane	17.14	1.0	20	0	85.7	50 - 139				
cis-1,2-Dichloroethene	16.75	1.0	20	1.081	78.4	78 - 123				
cis-1,3-Dichloropropene	13.78	1.0	20	0	68.9	75 - 124				S
Dibromochloromethane	14.07	1.0	20	0	70.4	74 - 126				S
Dibromomethane	15.26	1.0	20	0	76.3	79 - 123				S
Dichlorodifluoromethane	19.59	1.0	20	0	98.0	32 - 152				
Ethylbenzene	16.79	1.0	20	0	83.9	79 - 121				
Hexachlorobutadiene	17.62	1.0	20	0	88.1	66 - 134				
Isopropylbenzene	18.8	1.0	20	0	94.0	72 - 131				
m,p-Xylene	34.58	2.0	40	0	86.5	80 - 121				
Methylene chloride	15.72	2.0	20	0	78.6	74 - 124				
Naphthalene	14.66	1.0	20	0	73.3	61 - 128				
n-Butylbenzene	18.28	1.0	20	0	91.4	75 - 128				
n-Propylbenzene	18.96	1.0	20	0	94.8	76 - 126				
o-Xylene	17.34	1.0	20	0	86.7	78 - 122				
sec-Butylbenzene	20.03	1.0	20	0	100	77 - 126				
Styrene	16.59	1.0	20	0	82.9	78 - 123				
tert-Butylbenzene	19.27	1.0	20	0	96.4	78 - 124				
Tetrachloroethene	18.22	1.0	20	0	91.1	74 - 129				
Toluene	16.07	1.0	20	0	80.3	80 - 121				
trans-1,2-Dichloroethene	16.3	1.0	20	0	81.5	75 - 124				
trans-1,3-Dichloropropene	13.46	1.0	20	0	67.3	73 - 127				S
Trichloroethene	16.48	1.0	20	0.7715	78.5	79 - 123				S
Trichlorofluoromethane	17.67	1.0	20	0	88.3	65 - 141				
Vinyl chloride	17.74	1.0	20	0	88.7	58 - 137				
Surr: 1,2-Dichloroethane-d4	*53.03*	*35*	*50*	*0*	*106*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*55.38*	*35*	*50*	*0*	*111*	*85 - 114*				
Surr: Dibromofluoromethane	*51.79*	*35*	*50*	*0*	*104*	*80 - 119*				
Surr: Toluene-d8	*54.39*	*35*	*50*	*0*	*109*	*89 - 112*				

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS24051959

QC BATCH REPORT

Batch ID: R468713 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MSD Sample ID: **HS24051959-07MSD** Units: **ug/L** Analysis Date: **06-Jun-2024 13:20**
Client ID: **35AWW21_052924** Run ID: **VOA9_468713** SeqNo: **8051736** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	14.62	1.0	20	0	73.1	78 - 124	15.26	4.26	20	S
1,1,1-Trichloroethane	15.77	1.0	20	0	78.8	74 - 131	16.47	4.35	20	
1,1,2,2-Tetrachloroethane	16.07	1.0	20	0	80.3	71 - 121	15.72	2.18	20	
1,1,2-Trichloroethane	15.98	1.0	20	0	79.9	80 - 119	15.91	0.415	20	S
1,1-Dichloroethane	20.27	1.0	20	4.004	81.3	77 - 125	20.68	2.02	20	
1,1-Dichloroethene	20.22	1.0	20	3.558	83.3	71 - 131	21.23	4.87	20	
1,1-Dichloropropene	15.63	1.0	20	0	78.2	78 - 125	15.96	2.04	20	
1,2,3-Trichlorobenzene	16.51	1.0	20	0	82.6	69 - 129	16.23	1.75	20	
1,2,3-Trichloropropane	15.87	1.0	20	0	79.4	73 - 122	15.74	0.849	20	
1,2,4-Trichlorobenzene	16.74	1.0	20	0	83.7	69 - 130	16.64	0.609	20	
1,2,4-Trimethylbenzene	17.84	1.0	20	0	89.2	76 - 124	17.79	0.288	20	
1,2-Dibromo-3-chloropropane	15.36	1.0	20	0	76.8	62 - 128	15.48	0.801	20	
1,2-Dibromoethane	14.98	1.0	20	0	74.9	77 - 121	14.92	0.421	20	S
1,2-Dichlorobenzene	17.54	1.0	20	0	87.7	80 - 119	17.39	0.869	20	
1,2-Dichloroethane	15.94	1.0	20	0	79.7	73 - 128	15.72	1.43	20	
1,2-Dichloropropane	15.04	1.0	20	0	75.2	78 - 122	15.41	2.41	20	S
1,3,5-Trimethylbenzene	18.77	1.0	20	0	93.8	75 - 124	18.69	0.394	20	
1,3-Dichlorobenzene	16.45	1.0	20	0	82.3	80 - 119	16.3	0.901	20	
1,3-Dichloropropane	15.67	1.0	20	0	78.4	80 - 119	15.48	1.19	20	S
1,4-Dichlorobenzene	17.31	1.0	20	0	86.6	79 - 118	17.69	2.13	20	
2,2-Dichloropropane	15.15	1.0	20	0	75.8	60 - 139	15.7	3.53	20	
2-Butanone	31.86	2.0	40	0	79.6	56 - 143	31.88	0.0583	20	
2-Chlorotoluene	17.11	1.0	20	0	85.6	79 - 122	17.28	0.98	20	
2-Hexanone	35.76	2.0	40	0	89.4	57 - 139	35.7	0.172	20	
4-Chlorotoluene	17.07	1.0	20	0	85.3	78 - 122	17.5	2.48	20	
4-Isopropyltoluene	19.2	1.0	20	0	96.0	77 - 127	19.48	1.44	20	
4-Methyl-2-pentanone	31.27	2.0	40	0	78.2	67 - 130	31.09	0.577	20	
Acetone	28.78	2.0	40	0	71.9	39 - 160	30.52	5.88	20	
Benzene	15.82	1.0	20	0	79.1	79 - 120	16.11	1.81	20	
Bromobenzene	16.46	1.0	20	0	82.3	80 - 120	16.85	2.36	20	
Bromochloromethane	15.26	1.0	20	0	76.3	78 - 123	15.82	3.65	20	S
Bromodichloromethane	13.55	1.0	20	0	67.8	79 - 125	13.83	2.06	20	S
Bromoform	13.83	1.0	20	0	69.2	66 - 130	13.67	1.15	20	
Bromomethane	16.39	1.0	20	0	82.0	53 - 141	16.83	2.63	20	

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 03-Jul-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS24051959

QC BATCH REPORT

Batch ID: R468713 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MSD Sample ID: **HS24051959-07MSD** Units: **ug/L** Analysis Date: **06-Jun-2024 13:20**
Client ID: **35AWW21_052924** Run ID: **VOA9_468713** SeqNo: **8051736** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Carbon disulfide	29.45	2.0	40	0	73.6	64 - 133	30.47	3.4	20	
Carbon tetrachloride	15.61	1.0	20	0	78.0	72 - 136	15.84	1.51	20	
Chlorobenzene	16.06	1.0	20	0	80.3	82 - 118	16.39	2.02	20	S
Chloroethane	16.35	1.0	20	0	81.7	60 - 138	16.45	0.59	20	
Chloroform	14.62	1.0	20	0	73.1	79 - 124	15.13	3.48	20	S
Chloromethane	16.74	1.0	20	0	83.7	50 - 139	17.14	2.36	20	
cis-1,2-Dichloroethene	16.51	1.0	20	1.081	77.2	78 - 123	16.75	1.44	20	S
cis-1,3-Dichloropropene	13.6	1.0	20	0	68.0	75 - 124	13.78	1.25	20	S
Dibromochloromethane	14.02	1.0	20	0	70.1	74 - 126	14.07	0.354	20	S
Dibromomethane	15.07	1.0	20	0	75.4	79 - 123	15.26	1.24	20	S
Dichlorodifluoromethane	18.59	1.0	20	0	92.9	32 - 152	19.59	5.25	20	
Ethylbenzene	16.73	1.0	20	0	83.6	79 - 121	16.79	0.359	20	
Hexachlorobutadiene	17.19	1.0	20	0	86.0	66 - 134	17.62	2.47	20	
Isopropylbenzene	18.86	1.0	20	0	94.3	72 - 131	18.8	0.328	20	
m,p-Xylene	34.5	2.0	40	0	86.3	80 - 121	34.58	0.223	20	
Methylene chloride	15	2.0	20	0	75.0	74 - 124	15.72	4.72	20	
Naphthalene	15.33	1.0	20	0	76.6	61 - 128	14.66	4.49	20	
n-Butylbenzene	18.18	1.0	20	0	90.9	75 - 128	18.28	0.536	20	
n-Propylbenzene	18.25	1.0	20	0	91.2	76 - 126	18.96	3.82	20	
o-Xylene	17.04	1.0	20	0	85.2	78 - 122	17.34	1.75	20	
sec-Butylbenzene	19.61	1.0	20	0	98.1	77 - 126	20.03	2.09	20	
Styrene	16.66	1.0	20	0	83.3	78 - 123	16.59	0.438	20	
tert-Butylbenzene	18.88	1.0	20	0	94.4	78 - 124	19.27	2.06	20	
Tetrachloroethene	17.85	1.0	20	0	89.3	74 - 129	18.22	2.03	20	
Toluene	15.91	1.0	20	0	79.6	80 - 121	16.07	0.986	20	S
trans-1,2-Dichloroethene	16.08	1.0	20	0	80.4	75 - 124	16.3	1.37	20	
trans-1,3-Dichloropropene	13.6	1.0	20	0	68.0	73 - 127	13.46	1.06	20	S
Trichloroethene	16.29	1.0	20	0.7715	77.6	79 - 123	16.48	1.18	20	S
Trichlorofluoromethane	17.07	1.0	20	0	85.4	65 - 141	17.67	3.44	20	
Vinyl chloride	16.91	1.0	20	0	84.5	58 - 137	17.74	4.79	20	
Surr: 1,2-Dichloroethane-d4	*52.56*	*35*	*50*	*0*	*105*	*81 - 118*	*53.03*	*0.88*	*20*	
Surr: 4-Bromofluorobenzene	*56.46*	*35*	*50*	*0*	*113*	*85 - 114*	*55.38*	*1.93*	*20*	
Surr: Dibromofluoromethane	*51.79*	*35*	*50*	*0*	*104*	*80 - 119*	*51.79*	*0*	*20*	
Surr: Toluene-d8	*54.73*	*35*	*50*	*0*	*109*	*89 - 112*	*54.39*	*0.621*	*20*	

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 03-Jul-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS24051959

QC BATCH REPORT

Batch ID: R468713 (0)	Instrument: VOA9	Method: VOLATILES ORGANICS BY METHOD 8260C

The following samples were analyzed in this batch:

HS24051959-01	HS24051959-02	HS24051959-03	HS24051959-04
HS24051959-05	HS24051959-06	HS24051959-07	HS24051959-08
HS24051959-09	HS24051959-10	HS24051959-11	HS24051959-12
HS24051959-13	HS24051959-15	HS24051959-16	HS24051959-17
HS24051959-18			

ALS Houston, US Date: 03-Jul-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS24051959

QC BATCH REPORT

Batch ID: R468791 (0) **Instrument: VOA9** **Method: VOLATILES ORGANICS BY METHOD 8260C**

MBLK Sample ID: **VBLKW-240606** Units: **ug/L** Analysis Date: **06-Jun-2024 23:29**
Client ID: Run ID: **VOA9_468791** SeqNo: **8053498** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Naphthalene	1.0	1.0								U
Surr: 1,2-Dichloroethane-d4	*54.21*	*35*	*50*	*0*	*108*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*52.95*	*35*	*50*	*0*	*106*	*85 - 114*				
Surr: Dibromofluoromethane	*51.03*	*35*	*50*	*0*	*102*	*80 - 119*				
Surr: Toluene-d8	*54.48*	*35*	*50*	*0*	*109*	*89 - 112*				

LCS Sample ID: **VLCSW-240606** Units: **ug/L** Analysis Date: **06-Jun-2024 22:25**
Client ID: Run ID: **VOA9_468791** SeqNo: **8053496** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Naphthalene	16	1.0	20	0	80.0	61 - 128				
Surr: 1,2-Dichloroethane-d4	*53.04*	*35*	*50*	*0*	*106*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*56.1*	*35*	*50*	*0*	*112*	*85 - 114*				
Surr: Dibromofluoromethane	*52.79*	*35*	*50*	*0*	*106*	*80 - 119*				
Surr: Toluene-d8	*55.35*	*35*	*50*	*0*	*111*	*89 - 112*				

MS Sample ID: **HS24051959-14MS** Units: **ug/L** Analysis Date: **07-Jun-2024 08:38**
Client ID: **35AWW10_052824** Run ID: **VOA9_468791** SeqNo: **8053500** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Naphthalene	13.49	1.0	20	0	67.4	61 - 128				
Surr: 1,2-Dichloroethane-d4	*54.16*	*35*	*50*	*0*	*108*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*56.43*	*35*	*50*	*0*	*113*	*85 - 114*				
Surr: Dibromofluoromethane	*53.55*	*35*	*50*	*0*	*107*	*80 - 119*				
Surr: Toluene-d8	*55.83*	*35*	*50*	*0*	*112*	*89 - 112*				

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 03-Jul-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS24051959

QC BATCH REPORT

Batch ID: R468791 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MSD Sample ID: **HS24051959-14MSD** Units: **ug/L** Analysis Date: **07-Jun-2024 09:00**
Client ID: **35AWW10_052824** Run ID: **VOA9_468791** SeqNo: **8053501** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Naphthalene	14.08	1.0	20	0	70.4	61 - 128	13.49	4.25	20	
Surr: 1,2-Dichloroethane-d4	*52.96*	*35*	*50*	*0*	*106*	*81 - 118*	*54.16*	*2.25*	*20*	
Surr: 4-Bromofluorobenzene	*56.29*	*35*	*50*	*0*	*113*	*85 - 114*	*56.43*	*0.245*	*20*	
Surr: Dibromofluoromethane	*51.85*	*35*	*50*	*0*	*104*	*80 - 119*	*53.55*	*3.23*	*20*	
Surr: Toluene-d8	*55.63*	*35*	*50*	*0*	*111*	*89 - 112*	*55.83*	*0.368*	*20*	

The following samples were analyzed in this batch: HS24051959-14

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS24051959

QC BATCH REPORT

Batch ID: R468948 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MBLK Sample ID: **VBLKW-240608** Units: **ug/L** Analysis Date: **09-Jun-2024 09:16**
Client ID: Run ID: **VOA9_468948** SeqNo: **8056885** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	1.0	1.0								U
1,1,1-Trichloroethane	1.0	1.0								U
1,1,2,2-Tetrachloroethane	1.0	1.0								U
1,1,2-Trichloroethane	1.0	1.0								U
1,1-Dichloroethane	1.0	1.0								U
1,1-Dichloroethene	1.0	1.0								U
1,1-Dichloropropene	1.0	1.0								U
1,2,3-Trichlorobenzene	1.0	1.0								U
1,2,3-Trichloropropane	1.0	1.0								U
1,2,4-Trichlorobenzene	1.0	1.0								U
1,2,4-Trimethylbenzene	1.0	1.0								U
1,2-Dibromo-3-chloropropane	1.0	1.0								U
1,2-Dibromoethane	1.0	1.0								U
1,2-Dichlorobenzene	1.0	1.0								U
1,2-Dichloroethane	1.0	1.0								U
1,2-Dichloropropane	1.0	1.0								U
1,3,5-Trimethylbenzene	1.0	1.0								U
1,3-Dichlorobenzene	1.0	1.0								U
1,3-Dichloropropane	1.0	1.0								U
1,4-Dichlorobenzene	1.0	1.0								U
2-Butanone	1.0	2.0								U
2-Chlorotoluene	1.0	1.0								U
2-Hexanone	1.0	2.0								U
4-Chlorotoluene	1.0	1.0								U
4-Isopropyltoluene	1.0	1.0								U
4-Methyl-2-pentanone	1.0	2.0								U
Acetone	1.0	2.0								U
Benzene	1.0	1.0								U
Bromobenzene	1.0	1.0								U
Bromochloromethane	1.0	1.0								U
Bromodichloromethane	1.0	1.0								U
Bromoform	1.0	1.0								U
Bromomethane	1.0	1.0								U
Carbon disulfide	1.0	2.0								U

Revision: 1

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS24051959

QC BATCH REPORT

Batch ID: R468948 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MBLK Sample ID: **VBLKW-240608** Units: **ug/L** Analysis Date: **09-Jun-2024 09:16**
Client ID: Run ID: **VOA9_468948** SeqNo: **8056885** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon tetrachloride	1.0	1.0								U
Chlorobenzene	1.0	1.0								U
Chloroethane	1.0	1.0								U
Chloroform	1.0	1.0								U
Chloromethane	1.0	1.0								U
cis-1,2-Dichloroethene	1.0	1.0								U
cis-1,3-Dichloropropene	1.0	1.0								U
Dibromochloromethane	1.0	1.0								U
Dibromomethane	1.0	1.0								U
Dichlorodifluoromethane	1.0	1.0								U
Ethylbenzene	1.0	1.0								U
Hexachlorobutadiene	1.0	1.0								U
Isopropylbenzene	1.0	1.0								U
m,p-Xylene	1.0	2.0								U
Methylene chloride	1.0	2.0								U
Naphthalene	1.0	1.0								U
n-Butylbenzene	1.0	1.0								U
n-Propylbenzene	1.0	1.0								U
o-Xylene	1.0	1.0								U
sec-Butylbenzene	1.0	1.0								U
Styrene	1.0	1.0								U
tert-Butylbenzene	1.0	1.0								U
Toluene	1.0	1.0								U
trans-1,2-Dichloroethene	1.0	1.0								U
trans-1,3-Dichloropropene	1.0	1.0								U
Trichlorofluoromethane	1.0	1.0								U
Vinyl chloride	1.0	1.0								U
Surr: 1,2-Dichloroethane-d4	*55.55*	*35*	*50*	*0*	*111*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*55.66*	*35*	*50*	*0*	*111*	*85 - 114*				
Surr: Dibromofluoromethane	*53.73*	*35*	*50*	*0*	*107*	*80 - 119*				
Surr: Toluene-d8	*55.58*	*35*	*50*	*0*	*111*	*89 - 112*				

Revision: 1

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS24051959

QC BATCH REPORT

Batch ID: R468948 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

LCS Sample ID: **VLCSW-240608** Units: **ug/L** Analysis Date: **09-Jun-2024 08:11**
Client ID: Run ID: **VOA9_468948** SeqNo: **8056883** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	18.88	1.0	20	0	94.4	78 - 124				
1,1,1-Trichloroethane	18.07	1.0	20	0	90.4	74 - 131				
1,1,2,2-Tetrachloroethane	19.9	1.0	20	0	99.5	71 - 121				
1,1,2-Trichloroethane	19.77	1.0	20	0	98.9	80 - 119				
1,1-Dichloroethane	18.96	1.0	20	0	94.8	77 - 125				
1,1-Dichloroethene	18.95	1.0	20	0	94.8	71 - 131				
1,1-Dichloropropene	18.72	1.0	20	0	93.6	78 - 125				
1,2,3-Trichlorobenzene	21.99	1.0	20	0	110	69 - 129				
1,2,3-Trichloropropane	17.48	1.0	20	0	87.4	73 - 122				
1,2,4-Trichlorobenzene	21.22	1.0	20	0	106	69 - 130				
1,2,4-Trimethylbenzene	19.45	1.0	20	0	97.2	76 - 124				
1,2-Dibromo-3-chloropropane	21.23	1.0	20	0	106	62 - 128				
1,2-Dibromoethane	19.61	1.0	20	0	98.1	77 - 121				
1,2-Dichlorobenzene	20.02	1.0	20	0	100	80 - 119				
1,2-Dichloroethane	19.21	1.0	20	0	96.0	73 - 128				
1,2-Dichloropropane	19	1.0	20	0	95.0	78 - 122				
1,3,5-Trimethylbenzene	20.37	1.0	20	0	102	75 - 124				
1,3-Dichlorobenzene	19.79	1.0	20	0	99.0	80 - 119				
1,3-Dichloropropane	19.67	1.0	20	0	98.3	80 - 119				
1,4-Dichlorobenzene	19.43	1.0	20	0	97.2	79 - 118				
2-Butanone	42.97	2.0	40	0	107	56 - 143				
2-Chlorotoluene	19.5	1.0	20	0	97.5	79 - 122				
2-Hexanone	40.17	2.0	40	0	100	57 - 139				
4-Chlorotoluene	19.24	1.0	20	0	96.2	78 - 122				
4-Isopropyltoluene	20.11	1.0	20	0	101	77 - 127				
4-Methyl-2-pentanone	39.66	2.0	40	0	99.2	67 - 130				
Acetone	41.71	2.0	40	0	104	39 - 160				
Benzene	19.17	1.0	20	0	95.8	79 - 120				
Bromobenzene	19.74	1.0	20	0	98.7	80 - 120				
Bromochloromethane	19.36	1.0	20	0	96.8	78 - 123				
Bromodichloromethane	17.13	1.0	20	0	85.6	79 - 125				
Bromoform	17.76	1.0	20	0	88.8	66 - 130				
Bromomethane	19.47	1.0	20	0	97.4	53 - 141				
Carbon disulfide	36.22	2.0	40	0	90.5	64 - 133				

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 03-Jul-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS24051959

QC BATCH REPORT

Batch ID: R468948 (0) **Instrument: VOA9** **Method: VOLATILES ORGANICS BY METHOD 8260C**

LCS Sample ID: **VLCSW-240608** Units: **ug/L** Analysis Date: **09-Jun-2024 08:11**
Client ID: Run ID: **VOA9_468948** SeqNo: **8056883** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon tetrachloride	17.56	1.0	20	0	87.8	72 - 136				
Chlorobenzene	19.65	1.0	20	0	98.3	82 - 118				
Chloroethane	18.91	1.0	20	0	94.5	60 - 138				
Chloroform	19.01	1.0	20	0	95.0	79 - 124				
Chloromethane	18.47	1.0	20	0	92.4	50 - 139				
cis-1,2-Dichloroethene	18.87	1.0	20	0	94.4	78 - 123				
cis-1,3-Dichloropropene	17.23	1.0	20	0	86.1	75 - 124				
Dibromochloromethane	17.97	1.0	20	0	89.9	74 - 126				
Dibromomethane	18.9	1.0	20	0	94.5	79 - 123				
Dichlorodifluoromethane	18.21	1.0	20	0	91.1	32 - 152				
Ethylbenzene	18.4	1.0	20	0	92.0	79 - 121				
Hexachlorobutadiene	20.73	1.0	20	0	104	66 - 134				
Isopropylbenzene	19.43	1.0	20	0	97.2	72 - 131				
m,p-Xylene	37.68	2.0	40	0	94.2	80 - 121				
Methylene chloride	19.41	2.0	20	0	97.1	74 - 124				
Naphthalene	21.72	1.0	20	0	109	61 - 128				
n-Butylbenzene	19.65	1.0	20	0	98.3	75 - 128				
n-Propylbenzene	19.46	1.0	20	0	97.3	76 - 126				
o-Xylene	18.88	1.0	20	0	94.4	78 - 122				
sec-Butylbenzene	20.27	1.0	20	0	101	77 - 126				
Styrene	19.14	1.0	20	0	95.7	78 - 123				
tert-Butylbenzene	20.62	1.0	20	0	103	78 - 124				
Toluene	19.58	1.0	20	0	97.9	80 - 121				
trans-1,2-Dichloroethene	18.83	1.0	20	0	94.1	75 - 124				
trans-1,3-Dichloropropene	17.2	1.0	20	0	86.0	73 - 127				
Trichlorofluoromethane	18.4	1.0	20	0	92.0	65 - 141				
Vinyl chloride	18.27	1.0	20	0	91.4	58 - 137				
Surr: 1,2-Dichloroethane-d4	*54.97*	*35*	*50*	*0*	*110*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*55.12*	*35*	*50*	*0*	*110*	*85 - 114*				
Surr: Dibromofluoromethane	*55.72*	*35*	*50*	*0*	*111*	*80 - 119*				
Surr: Toluene-d8	*55.94*	*35*	*50*	*0*	*112*	*89 - 112*				

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS24051959

QC BATCH REPORT

Batch ID: R468948 (0) **Instrument: VOA9** **Method: VOLATILES ORGANICS BY METHOD 8260C**

LCSD Sample ID: **VLCSDW-240608** Units: **ug/L** Analysis Date: **09-Jun-2024 08:33**
Client ID: Run ID: **VOA9_468948** SeqNo: **8056884** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	18.21	1.0	20	0	91.0	78 - 124	18.88	3.6	20	
1,1,1-Trichloroethane	17.47	1.0	20	0	87.4	74 - 131	18.07	3.36	20	
1,1,2,2-Tetrachloroethane	18.63	1.0	20	0	93.1	71 - 121	19.9	6.61	20	
1,1,2-Trichloroethane	18.94	1.0	20	0	94.7	80 - 119	19.77	4.32	20	
1,1-Dichloroethane	18.2	1.0	20	0	91.0	77 - 125	18.96	4.12	20	
1,1-Dichloroethene	18.26	1.0	20	0	91.3	71 - 131	18.95	3.72	20	
1,1-Dichloropropene	17.74	1.0	20	0	88.7	78 - 125	18.72	5.39	20	
1,2,3-Trichlorobenzene	20.59	1.0	20	0	103	69 - 129	21.99	6.55	20	
1,2,3-Trichloropropane	18.45	1.0	20	0	92.2	73 - 122	17.48	5.4	20	
1,2,4-Trichlorobenzene	19.5	1.0	20	0	97.5	69 - 130	21.22	8.43	20	
1,2,4-Trimethylbenzene	18.09	1.0	20	0	90.5	76 - 124	19.45	7.22	20	
1,2-Dibromo-3-chloropropane	20.21	1.0	20	0	101	62 - 128	21.23	4.93	20	
1,2-Dibromoethane	18.73	1.0	20	0	93.7	77 - 121	19.61	4.6	20	
1,2-Dichlorobenzene	18.78	1.0	20	0	93.9	80 - 119	20.02	6.41	20	
1,2-Dichloroethane	18.69	1.0	20	0	93.5	73 - 128	19.21	2.71	20	
1,2-Dichloropropane	18.46	1.0	20	0	92.3	78 - 122	19	2.91	20	
1,3,5-Trimethylbenzene	18.94	1.0	20	0	94.7	75 - 124	20.37	7.25	20	
1,3-Dichlorobenzene	18.37	1.0	20	0	91.8	80 - 119	19.79	7.46	20	
1,3-Dichloropropane	18.8	1.0	20	0	94.0	80 - 119	19.67	4.5	20	
1,4-Dichlorobenzene	18.5	1.0	20	0	92.5	79 - 118	19.43	4.92	20	
2-Butanone	41.54	2.0	40	0	104	56 - 143	42.97	3.38	20	
2-Chlorotoluene	18.53	1.0	20	0	92.7	79 - 122	19.5	5.08	20	
2-Hexanone	38.53	2.0	40	0	96.3	57 - 139	40.17	4.16	20	
4-Chlorotoluene	18.2	1.0	20	0	91.0	78 - 122	19.24	5.52	20	
4-Isopropyltoluene	18.67	1.0	20	0	93.4	77 - 127	20.11	7.4	20	
4-Methyl-2-pentanone	37.99	2.0	40	0	95.0	67 - 130	39.66	4.31	20	
Acetone	40.61	2.0	40	0	102	39 - 160	41.71	2.69	20	
Benzene	18.44	1.0	20	0	92.2	79 - 120	19.17	3.88	20	
Bromobenzene	18.6	1.0	20	0	93.0	80 - 120	19.74	5.94	20	
Bromochloromethane	19.42	1.0	20	0	97.1	78 - 123	19.36	0.326	20	
Bromodichloromethane	16.55	1.0	20	0	82.7	79 - 125	17.13	3.46	20	
Bromoform	16.87	1.0	20	0	84.3	66 - 130	17.76	5.14	20	
Bromomethane	19.69	1.0	20	0	98.5	53 - 141	19.47	1.13	20	
Carbon disulfide	34.26	2.0	40	0	85.7	64 - 133	36.22	5.54	20	

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS24051959

QC BATCH REPORT

Batch ID: R468948 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

LCSD Sample ID: **VLCSDW-240608** Units: **ug/L** Analysis Date: **09-Jun-2024 08:33**
Client ID: Run ID: **VOA9_468948** SeqNo: **8056884** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Carbon tetrachloride	16.73	1.0	20	0	83.6	72 - 136	17.56	4.89	20	
Chlorobenzene	18.39	1.0	20	0	91.9	82 - 118	19.65	6.65	20	
Chloroethane	17.88	1.0	20	0	89.4	60 - 138	18.91	5.57	20	
Chloroform	18.29	1.0	20	0	91.5	79 - 124	19.01	3.82	20	
Chloromethane	17.89	1.0	20	0	89.5	50 - 139	18.47	3.2	20	
cis-1,2-Dichloroethene	18.67	1.0	20	0	93.4	78 - 123	18.87	1.06	20	
cis-1,3-Dichloropropene	16.92	1.0	20	0	84.6	75 - 124	17.23	1.8	20	
Dibromochloromethane	17.37	1.0	20	0	86.9	74 - 126	17.97	3.39	20	
Dibromomethane	18.68	1.0	20	0	93.4	79 - 123	18.9	1.13	20	
Dichlorodifluoromethane	17.35	1.0	20	0	86.8	32 - 152	18.21	4.85	20	
Ethylbenzene	17.29	1.0	20	0	86.4	79 - 121	18.4	6.23	20	
Hexachlorobutadiene	19.25	1.0	20	0	96.3	66 - 134	20.73	7.36	20	
Isopropylbenzene	18.36	1.0	20	0	91.8	72 - 131	19.43	5.67	20	
m,p-Xylene	35.61	2.0	40	0	89.0	80 - 121	37.68	5.65	20	
Methylene chloride	18.87	2.0	20	0	94.3	74 - 124	19.41	2.84	20	
Naphthalene	19.84	1.0	20	0	99.2	61 - 128	21.72	9.08	20	
n-Butylbenzene	18	1.0	20	0	90.0	75 - 128	19.65	8.8	20	
n-Propylbenzene	18.15	1.0	20	0	90.8	76 - 126	19.46	6.94	20	
o-Xylene	17.85	1.0	20	0	89.3	78 - 122	18.88	5.57	20	
sec-Butylbenzene	18.97	1.0	20	0	94.9	77 - 126	20.27	6.59	20	
Styrene	17.95	1.0	20	0	89.8	78 - 123	19.14	6.38	20	
tert-Butylbenzene	19.07	1.0	20	0	95.4	78 - 124	20.62	7.78	20	
Toluene	18.59	1.0	20	0	92.9	80 - 121	19.58	5.18	20	
trans-1,2-Dichloroethene	18.05	1.0	20	0	90.3	75 - 124	18.83	4.2	20	
trans-1,3-Dichloropropene	16.76	1.0	20	0	83.8	73 - 127	17.2	2.57	20	
Trichlorofluoromethane	17.63	1.0	20	0	88.1	65 - 141	18.4	4.3	20	
Vinyl chloride	17.49	1.0	20	0	87.5	58 - 137	18.27	4.38	20	
Surr: 1,2-Dichloroethane-d4	*54.31*	*35*	*50*	*0*	*109*	*81 - 118*	*54.97*	*1.21*	*20*	
Surr: 4-Bromofluorobenzene	*55.21*	*35*	*50*	*0*	*110*	*85 - 114*	*55.12*	*0.163*	*20*	
Surr: Dibromofluoromethane	*54.83*	*35*	*50*	*0*	*110*	*80 - 119*	*55.72*	*1.6*	*20*	
Surr: Toluene-d8	*55.52*	*35*	*50*	*0*	*111*	*89 - 112*	*55.94*	*0.751*	*20*	

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 03-Jul-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS24051959

QC BATCH REPORT

Batch ID: R468948 (0) **Instrument: VOA9** **Method: VOLATILES ORGANICS BY METHOD 8260C**

MS Sample ID: **HS24060349-12MS** Units: **ug/L** Analysis Date: **09-Jun-2024 09:59**
Client ID: Run ID: **VOA9_468948** SeqNo: **8056887** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	17.84	1.0	20	0	89.2	78 - 124				
1,1,1-Trichloroethane	18.53	1.0	20	0	92.7	74 - 131				
1,1,2,2-Tetrachloroethane	19.12	1.0	20	0	95.6	71 - 121				
1,1,2-Trichloroethane	18.65	1.0	20	0	93.2	80 - 119				
1,1-Dichloroethane	18.77	1.0	20	0	93.9	77 - 125				
1,1-Dichloroethene	19.46	1.0	20	0	97.3	71 - 131				
1,1-Dichloropropene	19.11	1.0	20	0	95.5	78 - 125				
1,2,3-Trichlorobenzene	17.1	1.0	20	0	85.5	69 - 129				
1,2,3-Trichloropropane	17.47	1.0	20	0	87.3	73 - 122				
1,2,4-Trichlorobenzene	16.69	1.0	20	0	83.4	69 - 130				
1,2,4-Trimethylbenzene	17.63	1.0	20	0	88.1	76 - 124				
1,2-Dibromo-3-chloropropane	18.54	1.0	20	0	92.7	62 - 128				
1,2-Dibromoethane	17.82	1.0	20	0	89.1	77 - 121				
1,2-Dichlorobenzene	18.5	1.0	20	0	92.5	80 - 119				
1,2-Dichloroethane	18.35	1.0	20	0	91.8	73 - 128				
1,2-Dichloropropane	17.87	1.0	20	0	89.3	78 - 122				
1,3,5-Trimethylbenzene	19.39	1.0	20	0	97.0	75 - 124				
1,3-Dichlorobenzene	18.4	1.0	20	0	92.0	80 - 119				
1,3-Dichloropropane	18.4	1.0	20	0	92.0	80 - 119				
1,4-Dichlorobenzene	17.96	1.0	20	0	89.8	79 - 118				
2-Butanone	36.16	2.0	40	0	90.4	56 - 143				
2-Chlorotoluene	19.42	1.0	20	0	97.1	79 - 122				
2-Hexanone	40.98	2.0	40	0	102	57 - 139				
4-Chlorotoluene	18.39	1.0	20	0	91.9	78 - 122				
4-Isopropyltoluene	18.32	1.0	20	0	91.6	77 - 127				
4-Methyl-2-pentanone	36.52	2.0	40	0	91.3	67 - 130				
Acetone	30.51	2.0	40	0	76.3	39 - 160				
Benzene	19.09	1.0	20	0	95.5	79 - 120				
Bromobenzene	18.85	1.0	20	0	94.3	80 - 120				
Bromochloromethane	18.64	1.0	20	0	93.2	78 - 123				
Bromodichloromethane	16.41	1.0	20	0	82.1	79 - 125				
Bromoform	16.25	1.0	20	0	81.3	66 - 130				
Bromomethane	19.96	1.0	20	0	99.8	53 - 141				
Carbon disulfide	36.12	2.0	40	0	90.3	64 - 133				

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS24051959

QC BATCH REPORT

Batch ID: R468948 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MS Sample ID: **HS24060349-12MS** Units: **ug/L** Analysis Date: **09-Jun-2024 09:59**
Client ID: Run ID: **VOA9_468948** SeqNo: **8056887** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon tetrachloride	18.08	1.0	20	0	90.4	72 - 136				
Chlorobenzene	18.74	1.0	20	0	93.7	82 - 118				
Chloroethane	18.95	1.0	20	0	94.7	60 - 138				
Chloroform	18.62	1.0	20	0	93.1	79 - 124				
Chloromethane	18.67	1.0	20	0	93.3	50 - 139				
cis-1,2-Dichloroethene	18.88	1.0	20	0	94.4	78 - 123				
cis-1,3-Dichloropropene	16.14	1.0	20	0	80.7	75 - 124				
Dibromochloromethane	16.76	1.0	20	0	83.8	74 - 126				
Dibromomethane	18.24	1.0	20	0	91.2	79 - 123				
Dichlorodifluoromethane	18.25	1.0	20	0	91.2	32 - 152				
Ethylbenzene	18.06	1.0	20	0	90.3	79 - 121				
Hexachlorobutadiene	15.82	1.0	20	0	79.1	66 - 134				
Isopropylbenzene	18.85	1.0	20	0	94.2	72 - 131				
m,p-Xylene	36.69	2.0	40	0	91.7	80 - 121				
Methylene chloride	18.49	2.0	20	0	92.4	74 - 124				
Naphthalene	17.75	1.0	20	0	88.8	61 - 128				
n-Butylbenzene	17.11	1.0	20	0	85.6	75 - 128				
n-Propylbenzene	19.06	1.0	20	0	95.3	76 - 126				
o-Xylene	18.13	1.0	20	0	90.7	78 - 122				
sec-Butylbenzene	19.06	1.0	20	0	95.3	77 - 126				
Styrene	17.72	1.0	20	0	88.6	78 - 123				
tert-Butylbenzene	19.63	1.0	20	0	98.1	78 - 124				
Toluene	19.21	1.0	20	0	96.0	80 - 121				
trans-1,2-Dichloroethene	19	1.0	20	0	95.0	75 - 124				
trans-1,3-Dichloropropene	15.96	1.0	20	0	79.8	73 - 127				
Trichlorofluoromethane	19.34	1.0	20	0	96.7	65 - 141				
Vinyl chloride	18.73	1.0	20	0	93.6	58 - 137				
Surr: 1,2-Dichloroethane-d4	*54.35*	*35*	*50*	*0*	*109*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*58.39*	*35*	*50*	*0*	*117*	*85 - 114*				S
Surr: Dibromofluoromethane	*54.1*	*35*	*50*	*0*	*108*	*80 - 119*				
Surr: Toluene-d8	*59*	*35*	*50*	*0*	*118*	*89 - 112*				S

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS24051959

QC BATCH REPORT

Batch ID: R468948 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MSD Sample ID: **HS24060349-12MSD** Units: **ug/L** Analysis Date: **09-Jun-2024 10:21**
Client ID: Run ID: **VOA9_468948** SeqNo: **8056888** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	17.25	1.0	20	0	86.2	78 - 124	17.84	3.37	20	
1,1,1-Trichloroethane	17.57	1.0	20	0	87.9	74 - 131	18.53	5.3	20	
1,1,2,2-Tetrachloroethane	18.14	1.0	20	0	90.7	71 - 121	19.12	5.26	20	
1,1,2-Trichloroethane	18.27	1.0	20	0	91.4	80 - 119	18.65	2.01	20	
1,1-Dichloroethane	17.86	1.0	20	0	89.3	77 - 125	18.77	4.99	20	
1,1-Dichloroethene	18.65	1.0	20	0	93.3	71 - 131	19.46	4.24	20	
1,1-Dichloropropene	18.24	1.0	20	0	91.2	78 - 125	19.11	4.65	20	
1,2,3-Trichlorobenzene	16.59	1.0	20	0	82.9	69 - 129	17.1	3.08	20	
1,2,3-Trichloropropane	16.8	1.0	20	0	84.0	73 - 122	17.47	3.93	20	
1,2,4-Trichlorobenzene	16.14	1.0	20	0	80.7	69 - 130	16.69	3.32	20	
1,2,4-Trimethylbenzene	17.07	1.0	20	0	85.3	76 - 124	17.63	3.23	20	
1,2-Dibromo-3-chloropropane	17.78	1.0	20	0	88.9	62 - 128	18.54	4.21	20	
1,2-Dibromoethane	17.8	1.0	20	0	89.0	77 - 121	17.82	0.107	20	
1,2-Dichlorobenzene	18.04	1.0	20	0	90.2	80 - 119	18.5	2.57	20	
1,2-Dichloroethane	17.49	1.0	20	0	87.5	73 - 128	18.35	4.78	20	
1,2-Dichloropropane	17.4	1.0	20	0	87.0	78 - 122	17.87	2.66	20	
1,3,5-Trimethylbenzene	18.71	1.0	20	0	93.5	75 - 124	19.39	3.61	20	
1,3-Dichlorobenzene	17.54	1.0	20	0	87.7	80 - 119	18.4	4.77	20	
1,3-Dichloropropane	18.13	1.0	20	0	90.7	80 - 119	18.4	1.45	20	
1,4-Dichlorobenzene	17.68	1.0	20	0	88.4	79 - 118	17.96	1.56	20	
2-Butanone	34.57	2.0	40	0	86.4	56 - 143	36.16	4.49	20	
2-Chlorotoluene	18.63	1.0	20	0	93.1	79 - 122	19.42	4.2	20	
2-Hexanone	38.7	2.0	40	0	96.7	57 - 139	40.98	5.72	20	
4-Chlorotoluene	17.83	1.0	20	0	89.1	78 - 122	18.39	3.09	20	
4-Isopropyltoluene	17.66	1.0	20	0	88.3	77 - 127	18.32	3.71	20	
4-Methyl-2-pentanone	36.06	2.0	40	0	90.2	67 - 130	36.52	1.27	20	
Acetone	28.86	2.0	40	0	72.1	39 - 160	30.51	5.58	20	
Benzene	18.26	1.0	20	0	91.3	79 - 120	19.09	4.46	20	
Bromobenzene	18.12	1.0	20	0	90.6	80 - 120	18.85	3.96	20	
Bromochloromethane	17.72	1.0	20	0	88.6	78 - 123	18.64	5.1	20	
Bromodichloromethane	15.78	1.0	20	0	78.9	79 - 125	16.41	3.89	20	S
Bromoform	15.88	1.0	20	0	79.4	66 - 130	16.25	2.33	20	
Bromomethane	18.8	1.0	20	0	94.0	53 - 141	19.96	5.99	20	
Carbon disulfide	34.85	2.0	40	0	87.1	64 - 133	36.12	3.58	20	

Revision: 1

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS24051959

QC BATCH REPORT

Batch ID: R468948 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MSD Sample ID: **HS24060349-12MSD** Units: **ug/L** Analysis Date: **09-Jun-2024 10:21**
Client ID: Run ID: **VOA9_468948** SeqNo: **8056888** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Carbon tetrachloride	17.49	1.0	20	0	87.5	72 - 136	18.08	3.29	20	
Chlorobenzene	18.3	1.0	20	0	91.5	82 - 118	18.74	2.34	20	
Chloroethane	17.91	1.0	20	0	89.6	60 - 138	18.95	5.62	20	
Chloroform	17.91	1.0	20	0	89.5	79 - 124	18.62	3.91	20	
Chloromethane	17.72	1.0	20	0	88.6	50 - 139	18.67	5.17	20	
cis-1,2-Dichloroethene	17.92	1.0	20	0	89.6	78 - 123	18.88	5.19	20	
cis-1,3-Dichloropropene	15.15	1.0	20	0	75.7	75 - 124	16.14	6.36	20	
Dibromochloromethane	16.55	1.0	20	0	82.8	74 - 126	16.76	1.26	20	
Dibromomethane	17.44	1.0	20	0	87.2	79 - 123	18.24	4.47	20	
Dichlorodifluoromethane	17.81	1.0	20	0	89.0	32 - 152	18.25	2.44	20	
Ethylbenzene	17.77	1.0	20	0	88.8	79 - 121	18.06	1.62	20	
Hexachlorobutadiene	15.56	1.0	20	0	77.8	66 - 134	15.82	1.71	20	
Isopropylbenzene	18.6	1.0	20	0	93.0	72 - 131	18.85	1.32	20	
m,p-Xylene	35.96	2.0	40	0	89.9	80 - 121	36.69	2.01	20	
Methylene chloride	17.56	2.0	20	0	87.8	74 - 124	18.49	5.17	20	
Naphthalene	17.73	1.0	20	0	88.7	61 - 128	17.75	0.101	20	
n-Butylbenzene	16.56	1.0	20	0	82.8	75 - 128	17.11	3.24	20	
n-Propylbenzene	18.09	1.0	20	0	90.4	76 - 126	19.06	5.25	20	
o-Xylene	17.8	1.0	20	0	89.0	78 - 122	18.13	1.88	20	
sec-Butylbenzene	18.08	1.0	20	0	90.4	77 - 126	19.06	5.26	20	
Styrene	17.3	1.0	20	0	86.5	78 - 123	17.72	2.39	20	
tert-Butylbenzene	18.86	1.0	20	0	94.3	78 - 124	19.63	4	20	
Toluene	18.72	1.0	20	0	93.6	80 - 121	19.21	2.57	20	
trans-1,2-Dichloroethene	18	1.0	20	0	90.0	75 - 124	19	5.4	20	
trans-1,3-Dichloropropene	15.33	1.0	20	0	76.6	73 - 127	15.96	4.04	20	
Trichlorofluoromethane	18.31	1.0	20	0	91.5	65 - 141	19.34	5.5	20	
Vinyl chloride	17.85	1.0	20	0	89.3	58 - 137	18.73	4.78	20	
Surr: 1,2-Dichloroethane-d4	*53.76*	*35*	*50*	*0*	*108*	*81 - 118*	*54.35*	*1.09*	*20*	
Surr: 4-Bromofluorobenzene	*59.72*	*35*	*50*	*0*	*119*	*85 - 114*	*58.39*	*2.25*	*20*	S
Surr: Dibromofluoromethane	*54.29*	*35*	*50*	*0*	*109*	*80 - 119*	*54.1*	*0.354*	*20*	
Surr: Toluene-d8	*58.81*	*35*	*50*	*0*	*118*	*89 - 112*	*59*	*0.328*	*20*	S

The following samples were analyzed in this batch: HS24051959-05 HS24051959-06

Revision: 1

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Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS24051959

QC BATCH REPORT

Batch ID: R469054 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MBLK Sample ID: **VBLKW-240610** Units: **ug/L** Analysis Date: **10-Jun-2024 11:13**
Client ID: Run ID: **VOA9_469054** SeqNo: **8062360** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	1.0	1.0								U
1,1,1-Trichloroethane	1.0	1.0								U
1,1,2,2-Tetrachloroethane	1.0	1.0								U
1,1,2-Trichloroethane	1.0	1.0								U
1,1-Dichloroethane	1.0	1.0								U
1,1-Dichloroethene	1.0	1.0								U
1,1-Dichloropropene	1.0	1.0								U
1,2,3-Trichlorobenzene	1.0	1.0								U
1,2,3-Trichloropropane	1.0	1.0								U
1,2,4-Trichlorobenzene	1.0	1.0								U
1,2,4-Trimethylbenzene	1.0	1.0								U
1,2-Dibromo-3-chloropropane	1.0	1.0								U
1,2-Dibromoethane	1.0	1.0								U
1,2-Dichlorobenzene	1.0	1.0								U
1,2-Dichloroethane	1.0	1.0								U
1,2-Dichloropropane	1.0	1.0								U
1,3,5-Trimethylbenzene	1.0	1.0								U
1,3-Dichlorobenzene	1.0	1.0								U
1,3-Dichloropropane	1.0	1.0								U
1,4-Dichlorobenzene	1.0	1.0								U
2,2-Dichloropropane	1.0	1.0								U
2-Butanone	1.0	2.0								U
2-Chlorotoluene	1.0	1.0								U
2-Hexanone	1.0	2.0								U
4-Chlorotoluene	1.0	1.0								U
4-Isopropyltoluene	1.0	1.0								U
4-Methyl-2-pentanone	1.0	2.0								U
Acetone	1.0	2.0								U
Benzene	1.0	1.0								U
Bromobenzene	1.0	1.0								U
Bromochloromethane	1.0	1.0								U
Bromodichloromethane	1.0	1.0								U
Bromoform	1.0	1.0								U
Bromomethane	1.0	1.0								U

Revision: 1

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS24051959

QC BATCH REPORT

Batch ID: R469054 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MBLK Sample ID: **VBLKW-240610** Units: **ug/L** Analysis Date: **10-Jun-2024 11:13**
Client ID: Run ID: **VOA9_469054** SeqNo: **8062360** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	1.0	2.0								U
Carbon tetrachloride	1.0	1.0								U
Chlorobenzene	1.0	1.0								U
Chloroethane	1.0	1.0								U
Chloroform	1.0	1.0								U
Chloromethane	1.0	1.0								U
cis-1,2-Dichloroethene	1.0	1.0								U
cis-1,3-Dichloropropene	1.0	1.0								U
Dibromochloromethane	1.0	1.0								U
Dibromomethane	1.0	1.0								U
Dichlorodifluoromethane	1.0	1.0								U
Ethylbenzene	1.0	1.0								U
Hexachlorobutadiene	1.0	1.0								U
Isopropylbenzene	1.0	1.0								U
m,p-Xylene	1.0	2.0								U
Methylene chloride	1.0	2.0								U
n-Butylbenzene	1.0	1.0								U
n-Propylbenzene	1.0	1.0								U
o-Xylene	1.0	1.0								U
sec-Butylbenzene	1.0	1.0								U
Styrene	1.0	1.0								U
tert-Butylbenzene	1.0	1.0								U
Tetrachloroethene	1.0	1.0								U
Toluene	1.0	1.0								U
trans-1,2-Dichloroethene	1.0	1.0								U
trans-1,3-Dichloropropene	1.0	1.0								U
Trichloroethene	1.0	1.0								U
Trichlorofluoromethane	1.0	1.0								U
Vinyl chloride	1.0	1.0								U
Surr: 1,2-Dichloroethane-d4	*58.25*	*35*	*50*	*0*	*117*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*56.67*	*35*	*50*	*0*	*113*	*85 - 114*				
Surr: Dibromofluoromethane	*55.34*	*35*	*50*	*0*	*111*	*80 - 119*				
Surr: Toluene-d8	*55.94*	*35*	*50*	*0*	*112*	*89 - 112*				

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS24051959

QC BATCH REPORT

Batch ID: R469054 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

LCS Sample ID: **VLCSW-240610** Units: **ug/L** Analysis Date: **10-Jun-2024 10:09**
Client ID: Run ID: **VOA9_469054** SeqNo: **8062358** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	19.55	1.0	20	0	97.7	78 - 124				
1,1,1-Trichloroethane	19.63	1.0	20	0	98.1	74 - 131				
1,1,2,2-Tetrachloroethane	20.24	1.0	20	0	101	71 - 121				
1,1,2-Trichloroethane	20.3	1.0	20	0	101	80 - 119				
1,1-Dichloroethane	20.56	1.0	20	0	103	77 - 125				
1,1-Dichloroethene	20.49	1.0	20	0	102	71 - 131				
1,1-Dichloropropene	20.52	1.0	20	0	103	78 - 125				
1,2,3-Trichlorobenzene	20.23	1.0	20	0	101	69 - 129				
1,2,3-Trichloropropane	19.19	1.0	20	0	96.0	73 - 122				
1,2,4-Trichlorobenzene	19.66	1.0	20	0	98.3	69 - 130				
1,2,4-Trimethylbenzene	19.27	1.0	20	0	96.4	76 - 124				
1,2-Dibromo-3-chloropropane	20.08	1.0	20	0	100	62 - 128				
1,2-Dibromoethane	19.51	1.0	20	0	97.6	77 - 121				
1,2-Dichlorobenzene	20.56	1.0	20	0	103	80 - 119				
1,2-Dichloroethane	20.45	1.0	20	0	102	73 - 128				
1,2-Dichloropropane	19.62	1.0	20	0	98.1	78 - 122				
1,3,5-Trimethylbenzene	20.21	1.0	20	0	101	75 - 124				
1,3-Dichlorobenzene	20.28	1.0	20	0	101	80 - 119				
1,3-Dichloropropane	19.69	1.0	20	0	98.4	80 - 119				
1,4-Dichlorobenzene	20.55	1.0	20	0	103	79 - 118				
2,2-Dichloropropane	20.34	1.0	20	0	102	60 - 139				
2-Butanone	41.36	2.0	40	0	103	56 - 143				
2-Chlorotoluene	20.72	1.0	20	0	104	79 - 122				
2-Hexanone	41.26	2.0	40	0	103	57 - 139				
4-Chlorotoluene	20.26	1.0	20	0	101	78 - 122				
4-Isopropyltoluene	20.08	1.0	20	0	100	77 - 127				
4-Methyl-2-pentanone	38.85	2.0	40	0	97.1	67 - 130				
Acetone	40.4	2.0	40	0	101	39 - 160				
Benzene	19.94	1.0	20	0	99.7	79 - 120				
Bromobenzene	20.21	1.0	20	0	101	80 - 120				
Bromochloromethane	20.45	1.0	20	0	102	78 - 123				
Bromodichloromethane	18.2	1.0	20	0	91.0	79 - 125				
Bromoform	17.42	1.0	20	0	87.1	66 - 130				
Bromomethane	21.23	1.0	20	0	106	53 - 141				

Revision: 1

ALS Houston, US Date: 03-Jul-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS24051959

QC BATCH REPORT

Batch ID: R469054 (0) **Instrument: VOA9** **Method: VOLATILES ORGANICS BY METHOD 8260C**

LCS Sample ID: **VLCSW-240610** Units: **ug/L** Analysis Date: **10-Jun-2024 10:09**
Client ID: Run ID: **VOA9_469054** SeqNo: **8062358** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	40.8	2.0	40	0	102	64 - 133				
Carbon tetrachloride	19.49	1.0	20	0	97.4	72 - 136				
Chlorobenzene	20.16	1.0	20	0	101	82 - 118				
Chloroethane	20.5	1.0	20	0	102	60 - 138				
Chloroform	20.67	1.0	20	0	103	79 - 124				
Chloromethane	20.33	1.0	20	0	102	50 - 139				
cis-1,2-Dichloroethene	19.97	1.0	20	0	99.8	78 - 123				
cis-1,3-Dichloropropene	18.8	1.0	20	0	94.0	75 - 124				
Dibromochloromethane	18.67	1.0	20	0	93.3	74 - 126				
Dibromomethane	19.85	1.0	20	0	99.3	79 - 123				
Dichlorodifluoromethane	20.46	1.0	20	0	102	32 - 152				
Ethylbenzene	18.91	1.0	20	0	94.6	79 - 121				
Hexachlorobutadiene	20.7	1.0	20	0	103	66 - 134				
Isopropylbenzene	19.94	1.0	20	0	99.7	72 - 131				
m,p-Xylene	38.9	2.0	40	0	97.2	80 - 121				
Methylene chloride	20.74	2.0	20	0	104	74 - 124				
n-Butylbenzene	20.07	1.0	20	0	100	75 - 128				
n-Propylbenzene	20.32	1.0	20	0	102	76 - 126				
o-Xylene	19.43	1.0	20	0	97.1	78 - 122				
sec-Butylbenzene	20.59	1.0	20	0	103	77 - 126				
Styrene	19.63	1.0	20	0	98.2	78 - 123				
tert-Butylbenzene	20.57	1.0	20	0	103	78 - 124				
Tetrachloroethene	20.48	1.0	20	0	102	74 - 129				
Toluene	20.32	1.0	20	0	102	80 - 121				
trans-1,2-Dichloroethene	20.5	1.0	20	0	103	75 - 124				
trans-1,3-Dichloropropene	18.22	1.0	20	0	91.1	73 - 127				
Trichloroethene	20.01	1.0	20	0	100	79 - 123				
Trichlorofluoromethane	20.76	1.0	20	0	104	65 - 141				
Vinyl chloride	20.53	1.0	20	0	103	58 - 137				
Surr: 1,2-Dichloroethane-d4	*56.15*	*35*	*50*	*0*	*112*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*55.67*	*35*	*50*	*0*	*111*	*85 - 114*				
Surr: Dibromofluoromethane	*56.68*	*35*	*50*	*0*	*113*	*80 - 119*				
Surr: Toluene-d8	*55.13*	*35*	*50*	*0*	*110*	*89 - 112*				

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS24051959

QC BATCH REPORT

Batch ID: R469054 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

LCSD Sample ID: **VLCSDW-240610** Units: **ug/L** Analysis Date: **10-Jun-2024 10:30**
Client ID: Run ID: **VOA9_469054** SeqNo: **8062359** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	19.13	1.0	20	0	95.7	78 - 124	19.55	2.14	20	
1,1,1-Trichloroethane	19.4	1.0	20	0	97.0	74 - 131	19.63	1.17	20	
1,1,2,2-Tetrachloroethane	19.99	1.0	20	0	100.0	71 - 121	20.24	1.24	20	
1,1,2-Trichloroethane	20.32	1.0	20	0	102	80 - 119	20.3	0.113	20	
1,1-Dichloroethane	19.79	1.0	20	0	98.9	77 - 125	20.56	3.8	20	
1,1-Dichloroethene	20.09	1.0	20	0	100	71 - 131	20.49	1.96	20	
1,1-Dichloropropene	19.47	1.0	20	0	97.4	78 - 125	20.52	5.23	20	
1,2,3-Trichlorobenzene	19.49	1.0	20	0	97.4	69 - 129	20.23	3.75	20	
1,2,3-Trichloropropane	18.96	1.0	20	0	94.8	73 - 122	19.19	1.25	20	
1,2,4-Trichlorobenzene	18.97	1.0	20	0	94.9	69 - 130	19.66	3.59	20	
1,2,4-Trimethylbenzene	18.41	1.0	20	0	92.1	76 - 124	19.27	4.57	20	
1,2-Dibromo-3-chloropropane	19.54	1.0	20	0	97.7	62 - 128	20.08	2.71	20	
1,2-Dibromoethane	19.5	1.0	20	0	97.5	77 - 121	19.51	0.0652	20	
1,2-Dichlorobenzene	20	1.0	20	0	100	80 - 119	20.56	2.73	20	
1,2-Dichloroethane	19.79	1.0	20	0	98.9	73 - 128	20.45	3.29	20	
1,2-Dichloropropane	19.54	1.0	20	0	97.7	78 - 122	19.62	0.408	20	
1,3,5-Trimethylbenzene	19.81	1.0	20	0	99.1	75 - 124	20.21	2	20	
1,3-Dichlorobenzene	20.06	1.0	20	0	100	80 - 119	20.28	1.1	20	
1,3-Dichloropropane	19.85	1.0	20	0	99.3	80 - 119	19.69	0.833	20	
1,4-Dichlorobenzene	19.58	1.0	20	0	97.9	79 - 118	20.55	4.88	20	
2,2-Dichloropropane	19.28	1.0	20	0	96.4	60 - 139	20.34	5.36	20	
2-Butanone	42.28	2.0	40	0	106	56 - 143	41.36	2.19	20	
2-Chlorotoluene	19.77	1.0	20	0	98.8	79 - 122	20.72	4.7	20	
2-Hexanone	42.42	2.0	40	0	106	57 - 139	41.26	2.77	20	
4-Chlorotoluene	19.51	1.0	20	0	97.6	78 - 122	20.26	3.77	20	
4-Isopropyltoluene	19.36	1.0	20	0	96.8	77 - 127	20.08	3.64	20	
4-Methyl-2-pentanone	39.16	2.0	40	0	97.9	67 - 130	38.85	0.806	20	
Acetone	37.98	2.0	40	0	94.9	39 - 160	40.4	6.17	20	
Benzene	19.71	1.0	20	0	98.6	79 - 120	19.94	1.16	20	
Bromobenzene	19.69	1.0	20	0	98.5	80 - 120	20.21	2.61	20	
Bromochloromethane	19.69	1.0	20	0	98.5	78 - 123	20.45	3.75	20	
Bromodichloromethane	17.89	1.0	20	0	89.5	79 - 125	18.2	1.7	20	
Bromoform	17.63	1.0	20	0	88.1	66 - 130	17.42	1.19	20	
Bromomethane	20.25	1.0	20	0	101	53 - 141	21.23	4.73	20	

Revision: 1

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS24051959

QC BATCH REPORT

Batch ID: R469054 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

LCSD Sample ID: **VLCSDW-240610** Units: **ug/L** Analysis Date: **10-Jun-2024 10:30**
Client ID: Run ID: **VOA9_469054** SeqNo: **8062359** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Carbon disulfide	38.91	2.0	40	0	97.3	64 - 133	40.8	4.75	20	
Carbon tetrachloride	19	1.0	20	0	95.0	72 - 136	19.49	2.51	20	
Chlorobenzene	20.29	1.0	20	0	101	82 - 118	20.16	0.628	20	
Chloroethane	19.24	1.0	20	0	96.2	60 - 138	20.5	6.32	20	
Chloroform	19.86	1.0	20	0	99.3	79 - 124	20.67	4.01	20	
Chloromethane	19.18	1.0	20	0	95.9	50 - 139	20.33	5.81	20	
cis-1,2-Dichloroethene	19.24	1.0	20	0	96.2	78 - 123	19.97	3.71	20	
cis-1,3-Dichloropropene	18.29	1.0	20	0	91.4	75 - 124	18.8	2.74	20	
Dibromochloromethane	18.54	1.0	20	0	92.7	74 - 126	18.67	0.666	20	
Dibromomethane	19.65	1.0	20	0	98.3	79 - 123	19.85	1.02	20	
Dichlorodifluoromethane	19.6	1.0	20	0	98.0	32 - 152	20.46	4.29	20	
Ethylbenzene	18.65	1.0	20	0	93.3	79 - 121	18.91	1.38	20	
Hexachlorobutadiene	19.31	1.0	20	0	96.6	66 - 134	20.7	6.93	20	
Isopropylbenzene	19.6	1.0	20	0	98.0	72 - 131	19.94	1.68	20	
m,p-Xylene	38.15	2.0	40	0	95.4	80 - 121	38.9	1.93	20	
Methylene chloride	20.23	2.0	20	0	101	74 - 124	20.74	2.48	20	
n-Butylbenzene	19.29	1.0	20	0	96.4	75 - 128	20.07	3.96	20	
n-Propylbenzene	19.4	1.0	20	0	97.0	76 - 126	20.32	4.65	20	
o-Xylene	19.04	1.0	20	0	95.2	78 - 122	19.43	2	20	
sec-Butylbenzene	19.33	1.0	20	0	96.6	77 - 126	20.59	6.33	20	
Styrene	19.39	1.0	20	0	96.9	78 - 123	19.63	1.27	20	
tert-Butylbenzene	19.5	1.0	20	0	97.5	78 - 124	20.57	5.36	20	
Tetrachloroethene	20.16	1.0	20	0	101	74 - 129	20.48	1.54	20	
Toluene	19.75	1.0	20	0	98.7	80 - 121	20.32	2.86	20	
trans-1,2-Dichloroethene	20.2	1.0	20	0	101	75 - 124	20.5	1.49	20	
trans-1,3-Dichloropropene	18.4	1.0	20	0	92.0	73 - 127	18.22	0.97	20	
Trichloroethene	19.73	1.0	20	0	98.7	79 - 123	20.01	1.4	20	
Trichlorofluoromethane	20.3	1.0	20	0	102	65 - 141	20.76	2.23	20	
Vinyl chloride	19.74	1.0	20	0	98.7	58 - 137	20.53	3.93	20	
Surr: 1,2-Dichloroethane-d4	*55.32*	*35*	*50*	*0*	*111*	*81 - 118*	*56.15*	*1.48*	*20*	
Surr: 4-Bromofluorobenzene	*55.86*	*35*	*50*	*0*	*112*	*85 - 114*	*55.67*	*0.34*	*20*	
Surr: Dibromofluoromethane	*54.96*	*35*	*50*	*0*	*110*	*80 - 119*	*56.68*	*3.08*	*20*	
Surr: Toluene-d8	*55.96*	*35*	*50*	*0*	*112*	*89 - 112*	*55.13*	*1.48*	*20*	

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS24051959

QC BATCH REPORT

Batch ID: R469054 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MS Sample ID: **HS24051959-14MS** Units: **ug/L** Analysis Date: **10-Jun-2024 13:48**
Client ID: **35AWW10_052824** Run ID: **VOA9_469054** SeqNo: **8062362** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	15.68	1.0	20	0	78.4	78 - 124				
1,1,1-Trichloroethane	16.09	1.0	20	0	80.4	74 - 131				
1,1,2,2-Tetrachloroethane	15.76	1.0	20	0	78.8	71 - 121				
1,1,2-Trichloroethane	16.4	1.0	20	0	82.0	80 - 119				
1,1-Dichloroethane	16.6	1.0	20	0	83.0	77 - 125				
1,1-Dichloroethene	17.35	1.0	20	0	86.8	71 - 131				
1,1-Dichloropropene	16.46	1.0	20	0	82.3	78 - 125				
1,2,3-Trichlorobenzene	14.27	1.0	20	0	71.4	69 - 129				
1,2,3-Trichloropropane	14.66	1.0	20	0	73.3	73 - 122				
1,2,4-Trichlorobenzene	14.32	1.0	20	0	71.6	69 - 130				
1,2,4-Trimethylbenzene	14.09	1.0	20	0	70.5	76 - 124				S
1,2-Dibromo-3-chloropropane	14.39	1.0	20	0	71.9	62 - 128				
1,2-Dibromoethane	15.58	1.0	20	0	77.9	77 - 121				
1,2-Dichlorobenzene	15.83	1.0	20	0	79.1	80 - 119				S
1,2-Dichloroethane	15.87	1.0	20	0	79.4	73 - 128				
1,2-Dichloropropane	15.77	1.0	20	0	78.9	78 - 122				
1,3,5-Trimethylbenzene	15.78	1.0	20	0	78.9	75 - 124				
1,3-Dichlorobenzene	16.04	1.0	20	0	80.2	80 - 119				
1,3-Dichloropropane	15.81	1.0	20	0	79.1	80 - 119				S
1,4-Dichlorobenzene	16.2	1.0	20	0	81.0	79 - 118				
2,2-Dichloropropane	15.77	1.0	20	0	78.9	60 - 139				
2-Butanone	30.02	2.0	40	0	75.0	56 - 143				
2-Chlorotoluene	16.39	1.0	20	0	82.0	79 - 122				
2-Hexanone	33.41	2.0	40	0	83.5	57 - 139				
4-Chlorotoluene	16.08	1.0	20	0	80.4	78 - 122				
4-Isopropyltoluene	15.78	1.0	20	0	78.9	77 - 127				
4-Methyl-2-pentanone	31.62	2.0	40	0	79.1	67 - 130				
Acetone	25.36	2.0	40	0	63.4	39 - 160				
Benzene	16.17	1.0	20	0	80.9	79 - 120				
Bromobenzene	16.17	1.0	20	0	80.8	80 - 120				
Bromochloromethane	15.73	1.0	20	0	78.7	78 - 123				
Bromodichloromethane	14.31	1.0	20	0	71.6	79 - 125				S
Bromoform	13.82	1.0	20	0	69.1	66 - 130				
Bromomethane	16.87	1.0	20	0	84.3	53 - 141				

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 03-Jul-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS24051959

QC BATCH REPORT

Batch ID: R469054 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MS Sample ID: **HS24051959-14MS** Units: **ug/L** Analysis Date: **10-Jun-2024 13:48**
Client ID: **35AWW10_052824** Run ID: **VOA9_469054** SeqNo: **8062362** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	33.11	2.0	40	0	82.8	64 - 133				
Carbon tetrachloride	15.7	1.0	20	0	78.5	72 - 136				
Chlorobenzene	16.46	1.0	20	0	82.3	82 - 118				
Chloroethane	16.96	1.0	20	0	84.8	60 - 138				
Chloroform	16.51	1.0	20	0	82.6	79 - 124				
Chloromethane	17.51	1.0	20	0	87.5	50 - 139				
cis-1,2-Dichloroethene	16.04	1.0	20	0	80.2	78 - 123				
cis-1,3-Dichloropropene	14.38	1.0	20	0	71.9	75 - 124				S
Dibromochloromethane	14.79	1.0	20	0	74.0	74 - 126				S
Dibromomethane	15.86	1.0	20	0	79.3	79 - 123				
Dichlorodifluoromethane	17.8	1.0	20	0	89.0	32 - 152				
Ethylbenzene	15.73	1.0	20	0	78.7	79 - 121				S
Hexachlorobutadiene	15.18	1.0	20	0	75.9	66 - 134				
Isopropylbenzene	16.37	1.0	20	0	81.8	72 - 131				
m,p-Xylene	31.82	2.0	40	0	79.5	80 - 121				S
Methylene chloride	15.98	2.0	20	0	79.9	74 - 124				
n-Butylbenzene	15.66	1.0	20	0	78.3	75 - 128				
n-Propylbenzene	16.31	1.0	20	0	81.6	76 - 126				
o-Xylene	15.55	1.0	20	0	77.8	78 - 122				S
sec-Butylbenzene	16.32	1.0	20	0	81.6	77 - 126				
Styrene	18.84	1.0	20	0	94.2	78 - 123				
tert-Butylbenzene	16.28	1.0	20	0	81.4	78 - 124				
Tetrachloroethene	16.93	1.0	20	0	84.7	74 - 129				
Toluene	16.55	1.0	20	0	82.8	80 - 121				
trans-1,2-Dichloroethene	17.01	1.0	20	0	85.1	75 - 124				
trans-1,3-Dichloropropene	13.93	1.0	20	0	69.7	73 - 127				S
Trichloroethene	16.63	1.0	20	0	83.2	79 - 123				
Trichlorofluoromethane	17.87	1.0	20	0	89.4	65 - 141				
Vinyl chloride	16.92	1.0	20	0	84.6	58 - 137				
Surr: 1,2-Dichloroethane-d4	*56.74*	*35*	*50*	*0*	*113*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*59.32*	*35*	*50*	*0*	*119*	*85 - 114*				S
Surr: Dibromofluoromethane	*56.51*	*35*	*50*	*0*	*113*	*80 - 119*				
Surr: Toluene-d8	*58.75*	*35*	*50*	*0*	*117*	*89 - 112*				S

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS24051959

QC BATCH REPORT

Batch ID: R469054 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MSD Sample ID: **HS24051959-14MSD** Units: **ug/L** Analysis Date: **10-Jun-2024 14:09**
Client ID: **35AWW10_052824** Run ID: **VOA9_469054** SeqNo: **8062363** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	15.21	1.0	20	0	76.1	78 - 124	15.68	3.03	20	S
1,1,1-Trichloroethane	15.32	1.0	20	0	76.6	74 - 131	16.09	4.86	20	
1,1,2,2-Tetrachloroethane	15.71	1.0	20	0	78.6	71 - 121	15.76	0.294	20	
1,1,2-Trichloroethane	15.95	1.0	20	0	79.7	80 - 119	16.4	2.79	20	S
1,1-Dichloroethane	15.98	1.0	20	0	79.9	77 - 125	16.6	3.8	20	
1,1-Dichloroethene	16.96	1.0	20	0	84.8	71 - 131	17.35	2.26	20	
1,1-Dichloropropene	16.02	1.0	20	0	80.1	78 - 125	16.46	2.7	20	
1,2,3-Trichlorobenzene	14.82	1.0	20	0	74.1	69 - 129	14.27	3.77	20	
1,2,3-Trichloropropane	14.24	1.0	20	0	71.2	73 - 122	14.66	2.87	20	S
1,2,4-Trichlorobenzene	14.31	1.0	20	0	71.6	69 - 130	14.32	0.0412	20	
1,2,4-Trimethylbenzene	14.07	1.0	20	0	70.4	76 - 124	14.09	0.17	20	S
1,2-Dibromo-3-chloropropane	14.4	1.0	20	0	72.0	62 - 128	14.39	0.0855	20	
1,2-Dibromoethane	15.39	1.0	20	0	77.0	77 - 121	15.58	1.19	20	S
1,2-Dichlorobenzene	15.87	1.0	20	0	79.4	80 - 119	15.83	0.299	20	S
1,2-Dichloroethane	16.19	1.0	20	0	80.9	73 - 128	15.87	1.94	20	
1,2-Dichloropropane	15.69	1.0	20	0	78.4	78 - 122	15.77	0.514	20	
1,3,5-Trimethylbenzene	15.6	1.0	20	0	78.0	75 - 124	15.78	1.17	20	
1,3-Dichlorobenzene	15.69	1.0	20	0	78.5	80 - 119	16.04	2.22	20	S
1,3-Dichloropropane	15.39	1.0	20	0	76.9	80 - 119	15.81	2.74	20	S
1,4-Dichlorobenzene	15.91	1.0	20	0	79.5	79 - 118	16.2	1.84	20	
2,2-Dichloropropane	15.21	1.0	20	0	76.1	60 - 139	15.77	3.61	20	
2-Butanone	29.82	2.0	40	0	74.5	56 - 143	30.02	0.667	20	
2-Chlorotoluene	16.2	1.0	20	0	81.0	79 - 122	16.39	1.18	20	
2-Hexanone	33	2.0	40	0	82.5	57 - 139	33.41	1.21	20	
4-Chlorotoluene	15.62	1.0	20	0	78.1	78 - 122	16.08	2.94	20	
4-Isopropyltoluene	15.66	1.0	20	0	78.3	77 - 127	15.78	0.76	20	
4-Methyl-2-pentanone	30.59	2.0	40	0	76.5	67 - 130	31.62	3.31	20	
Acetone	22.71	2.0	40	0	56.8	39 - 160	25.36	11	20	
Benzene	16.04	1.0	20	0	80.2	79 - 120	16.17	0.796	20	
Bromobenzene	15.84	1.0	20	0	79.2	80 - 120	16.17	2.04	20	S
Bromochloromethane	16.26	1.0	20	0	81.3	78 - 123	15.73	3.33	20	
Bromodichloromethane	14.15	1.0	20	0	70.7	79 - 125	14.31	1.15	20	S
Bromoform	13.85	1.0	20	0	69.3	66 - 130	13.82	0.231	20	
Bromomethane	16.8	1.0	20	0	84.0	53 - 141	16.87	0.425	20	

Revision: 1

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS24051959

QC BATCH REPORT

Batch ID: R469054 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MSD Sample ID: **HS24051959-14MSD** Units: **ug/L** Analysis Date: **10-Jun-2024 14:09**
Client ID: **35AWW10_052824** Run ID: **VOA9_469054** SeqNo: **8062363** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Carbon disulfide	31.82	2.0	40	0	79.5	64 - 133	33.11	3.97	20	
Carbon tetrachloride	15.71	1.0	20	0	78.6	72 - 136	15.7	0.116	20	
Chlorobenzene	16.15	1.0	20	0	80.8	82 - 118	16.46	1.9	20	S
Chloroethane	16.31	1.0	20	0	81.5	60 - 138	16.96	3.92	20	
Chloroform	16.23	1.0	20	0	81.1	79 - 124	16.51	1.73	20	
Chloromethane	16.19	1.0	20	0	80.9	50 - 139	17.51	7.83	20	
cis-1,2-Dichloroethene	15.88	1.0	20	0	79.4	78 - 123	16.04	1.03	20	
cis-1,3-Dichloropropene	14.43	1.0	20	0	72.2	75 - 124	14.38	0.402	20	S
Dibromochloromethane	14.4	1.0	20	0	72.0	74 - 126	14.79	2.69	20	S
Dibromomethane	15.64	1.0	20	0	78.2	79 - 123	15.86	1.38	20	S
Dichlorodifluoromethane	17.2	1.0	20	0	86.0	32 - 152	17.8	3.44	20	
Ethylbenzene	14.95	1.0	20	0	74.7	79 - 121	15.73	5.1	20	S
Hexachlorobutadiene	14.45	1.0	20	0	72.2	66 - 134	15.18	4.97	20	
Isopropylbenzene	15.89	1.0	20	0	79.5	72 - 131	16.37	2.95	20	
m,p-Xylene	31.33	2.0	40	0	78.3	80 - 121	31.82	1.56	20	S
Methylene chloride	15.78	2.0	20	0	78.9	74 - 124	15.98	1.2	20	
n-Butylbenzene	15.36	1.0	20	0	76.8	75 - 128	15.66	1.96	20	
n-Propylbenzene	15.99	1.0	20	0	80.0	76 - 126	16.31	1.99	20	
o-Xylene	15.25	1.0	20	0	76.3	78 - 122	15.55	1.95	20	S
sec-Butylbenzene	15.92	1.0	20	0	79.6	77 - 126	16.32	2.43	20	
Styrene	16.49	1.0	20	0	82.4	78 - 123	18.84	13.3	20	
tert-Butylbenzene	16.07	1.0	20	0	80.3	78 - 124	16.28	1.34	20	
Tetrachloroethene	16.59	1.0	20	0	82.9	74 - 129	16.93	2.07	20	
Toluene	16.03	1.0	20	0	80.1	80 - 121	16.55	3.21	20	
trans-1,2-Dichloroethene	16.55	1.0	20	0	82.7	75 - 124	17.01	2.76	20	
trans-1,3-Dichloropropene	14.22	1.0	20	0	71.1	73 - 127	13.93	2.03	20	S
Trichloroethene	16.15	1.0	20	0	80.7	79 - 123	16.63	2.98	20	
Trichlorofluoromethane	17.37	1.0	20	0	86.9	65 - 141	17.87	2.83	20	
Vinyl chloride	16.59	1.0	20	0	83.0	58 - 137	16.92	1.96	20	
Surr: 1,2-Dichloroethane-d4	*56.09*	*35*	*50*	*0*	*112*	*81 - 118*	*56.74*	*1.15*	*20*	
Surr: 4-Bromofluorobenzene	*58.4*	*35*	*50*	*0*	*117*	*85 - 114*	*59.32*	*1.58*	*20*	S
Surr: Dibromofluoromethane	*55.52*	*35*	*50*	*0*	*111*	*80 - 119*	*56.51*	*1.76*	*20*	
Surr: Toluene-d8	*57.83*	*35*	*50*	*0*	*116*	*89 - 112*	*58.75*	*1.58*	*20*	S

The following samples were analyzed in this batch: HS24051959-14

Revision: 1

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS24051959

QC BATCH REPORT

Batch ID: R469280 (0) **Instrument:** VOA7 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MBLK Sample ID: **VBLKW-240612** Units: **ug/L** Analysis Date: **12-Jun-2024 17:26**
Client ID: Run ID: **VOA7_469280** SeqNo: **8067977** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,2-Dichloropropane	0	1.0								U
Surr: 1,2-Dichloroethane-d4	*55.8*	*35*	*50*	*0*	*112*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*48.58*	*35*	*50*	*0*	*97.2*	*85 - 114*				
Surr: Dibromofluoromethane	*56.06*	*35*	*50*	*0*	*112*	*80 - 119*				
Surr: Toluene-d8	*53.79*	*35*	*50*	*0*	*108*	*89 - 112*				

LCS Sample ID: **VLCSW-240612** Units: **ug/L** Analysis Date: **12-Jun-2024 16:40**
Client ID: Run ID: **VOA7_469280** SeqNo: **8067975** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,2-Dichloropropane	18.8	1.0	20	0	94.0	60 - 139				
Surr: 1,2-Dichloroethane-d4	*51.13*	*35*	*50*	*0*	*102*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*50.7*	*35*	*50*	*0*	*101*	*85 - 114*				
Surr: Dibromofluoromethane	*49.54*	*35*	*50*	*0*	*99.1*	*80 - 119*				
Surr: Toluene-d8	*52.27*	*35*	*50*	*0*	*105*	*89 - 112*				

LCSD Sample ID: **VLSDW-240612** Units: **ug/L** Analysis Date: **12-Jun-2024 17:03**
Client ID: Run ID: **VOA7_469280** SeqNo: **8067976** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,2-Dichloropropane	18.29	1.0	20	0	91.4	60 - 139	18.8	2.79	20	
Surr: 1,2-Dichloroethane-d4	*51.22*	*35*	*50*	*0*	*102*	*81 - 118*	*51.13*	*0.171*	*20*	
Surr: 4-Bromofluorobenzene	*51.55*	*35*	*50*	*0*	*103*	*85 - 114*	*50.7*	*1.66*	*20*	
Surr: Dibromofluoromethane	*49.24*	*35*	*50*	*0*	*98.5*	*80 - 119*	*49.54*	*0.621*	*20*	
Surr: Toluene-d8	*52.57*	*35*	*50*	*0*	*105*	*89 - 112*	*52.27*	*0.571*	*20*	

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS24051959

QC BATCH REPORT

Batch ID: R469280 (0) **Instrument:** VOA7 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MS Sample ID: **HS24060214-10MS** Units: **ug/L** Analysis Date: **12-Jun-2024 19:20**
Client ID: Run ID: **VOA7_469280** SeqNo: **8067979** PrepDate: DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,2-Dichloropropane	1653	100	2000	0	82.7	60 - 139				
Surr: 1,2-Dichloroethane-d4	*5847*	*3500*	*5000*	*0*	*117*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*5687*	*3500*	*5000*	*0*	*114*	*85 - 114*				
Surr: Dibromofluoromethane	*5798*	*3500*	*5000*	*0*	*116*	*80 - 119*				
Surr: Toluene-d8	*5825*	*3500*	*5000*	*0*	*116*	*89 - 112*				S

MSD Sample ID: **HS24060214-10MSD** Units: **ug/L** Analysis Date: **12-Jun-2024 19:43**
Client ID: Run ID: **VOA7_469280** SeqNo: **8067980** PrepDate: DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,2-Dichloropropane	2196	100	2000	0	110	60 - 139	1653	28.2	20	R
Surr: 1,2-Dichloroethane-d4	*5995*	*3500*	*5000*	*0*	*120*	*81 - 118*	*5847*	*2.5*	*20*	S
Surr: 4-Bromofluorobenzene	*5797*	*3500*	*5000*	*0*	*116*	*85 - 114*	*5687*	*1.92*	*20*	S
Surr: Dibromofluoromethane	*6077*	*3500*	*5000*	*0*	*122*	*80 - 119*	*5798*	*4.71*	*20*	S
Surr: Toluene-d8	*5995*	*3500*	*5000*	*0*	*120*	*89 - 112*	*5825*	*2.89*	*20*	S

The following samples were analyzed in this batch: HS24051959-05 HS24051959-06

Revision: 1

ALS Houston, US Date: 03-Jul-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: **HS24051959**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

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CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arizona	AZ0793	27-May-2025
Arkansas	88-00356_2024	27-Mar-2025
California	2919; 2025	30-Apr-2025
Illinois	2000322023-11	31-Jul-2025
Kansas	E-10352 2023-2024	31-Jul-2024
Kentucky	123043	30-Apr-2025
Louisiana	03087 2023-2024	30-Jun-2025
Maine	2024017	23-Jun-2026
Michigan	9971	30-Apr-2025
North Carolina	624 - 2024	31-Dec-2024
Oklahoma	2023-140	31-Aug-2024
Pennsylvania	018	30-Jun-2025
Tennessee	04016	30-Apr-2025
Texas	T104704231 TX-C24-00130	30-Apr-2025
Utah	TX026932023-14	31-Jul-2024

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ALS Houston, US Date: 03-Jul-24

Sample Receipt Checklist

Work Order ID: HS24051959 **Date/Time Received:** **30-May-2024 09:35**

Client Name: Bhate Environmental **Received by:** **Si Ma**

Completed By: */S/ Armand Morgan* (eSignature) 30-May-2024 20:59 (Date/Time) **Reviewed by:** */S/ Luis.Aguilar* (eSignature) 31-May-2024 14:53 (Date/Time)

Matrices: **W** Carrier name: **FedEx**

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	3 Page(s)
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	COC IDs:N/A
Samplers name present on COC?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☐	No ☑	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	

Temperature(s)/Thermometer(s):	1.6UC/1.7C	IR 31
Cooler(s)/Kit(s):	BLUE	
Date/Time sample(s) sent to storage:	05/30/24 21:00	

Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☑	N/A ☐
pH adjusted by:			

Login Notes: Login Comments: Sample : 35AWW13_052824A @14:50 listed on COC but not found in cooler

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

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RIGHT SOLUTIONS | RIGHT PARTNER

bhate

HS24051959

Bhate Environmental Associates, Inc.
LHAAP-58

1608 13th Avenue South, Suite 300
Birmingham Alabama 35205

Chain of Custody and Analytical Request

Facility/Base I.D.: LHAAP

Project/Site Name: LHAAP / Site 58

Client Name:

Collected by: Scott Beesinger

Sample Analysis Requ

Field Sample ID (20 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (1)	Sample Number (2)	Sample Matrix (3)	Number of containers	VOC	Dissolved Gases	TOC	Carbon Dioxide	Anions	Arsenic	Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
35SHwW15_052924	29 May 2024	0650	-	N		WG	3	X									
35SHwW26_052924	29 May 2024	0730	-	N		WG	3	X									
35SHwW05_052924	29 May 2024	0815	-	N		WG	3	X									
35SHwW24_052924	29 May 2024	0855	-	N		WG	3	X									
35SHwW09_052924	29 May 2024	0940	-	N		WG	4	X					X				
35SHwW09_052924_FD	29 May 2024	0940	-	FD		WG	4	X					X				
35SHwW21_052924	29 May 2024	1025	-	N		WG	3	X									
35SHwW21_052924_MS	29 May 2024	1025	-	MS		WG	3	X									
35SHwW21_052924_MSD	29 May 2024	1025	-	SD		WG	3	X									
35SHwW22_052924	29 May 2024	1110	-	N		WG	3										
35SHwW12_052924	29 May 2024	1120	-	N		WG	3	X									

COMMENTS: STANDARD TAT Cooler # WW Temp Blank 3.1 C 1.6 CF to 1

Custody Transfers Must Be Recorded

Relinquished by (Signed)	Date	Time	Received by (Signed)	Date	Time
1. Scott Beesinger	5/30/24	1430	1.		
2.			2.		
3.			3. SM	05/31/24	09:35

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: _____ Shipped No.:

_____ Method of Shipment: _____

_____ Fed _____ Ex _____ Airbill Number:

_____ Analytical Lab: ALS 10450 Stancliff Rd. Suite 210 Houston TX 77099 (281) 530-5656

ATTN: Dana Wagasey Lab Recipient: Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Samples, FD = Field Duplicate (-d) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-e) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-a)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 101099E1 in the Equipment Blank Lot Control

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bhate

Page: 01337619 of

HS24051959

Bhate Environmental Associates, Inc.
LHAAP-58

1608 13th Avenue South, Suite 300
Birmingham Alabama 35205

Chain of Custody and Analytical Request

Facility/Base I.D.: LHAAP

Project/Site Name: LHAAP / Site 58

Client Name:

Collected by: Scott Beesinger

Sample Analysis Requ

Field Sample ID (30 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOC	Dissolved Gases	TOC	Carbon Dioxide	Anions	Arsenic					Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
03mw01_052824	28-may-2024	0730	-		N	wb	4	X					X								
35Amw08_052824	28-may-2024	0810	-		N	wb	4	X					X								
35Amw01_052824	28-may-2024	0850	-		N	wb	4	X					X								
35Amw13_052824	28-may-2024	1450			N	wb	3	X													
35Amw13_052824_c	28-may-2024	1450			FB	wb	3	X													
35Amw10_052824	28-may-2024	1530	-		N	wb	3	X													
35Amw10_052824_MS	28-may-2024	1530	-		MS	wb	3	X													
35Amw10_052824_MSD	28-may-2024	1530	-		SD	wb	3	X													
LHSmw06_052824	28-may-2024	1610	-		N	wb	4	X					X								
LHSmw06_052824_c	28-may-2024	1610	-		FD	wb	4	X					X								
35Amw16_052824	28-may-2024	1650	-		N	wb	3	X													

COMMENTS: STANDARD TAT Coolers Rec'd Temp 1.6 Date 31 cf-40

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. Scott Beesinger	5/29/24	1430	1.		
2.			2.		
3.			3. Sam Cox	5/30/24	09:35

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: _____ Shipped _____ No.:

Method of Shipment: _____

_____ Fed _____ Ex _____ Airbill Number:

Analytical Lab: ALS 10450 Stancliff Rd. Suite 210 Houston, TX 77099 (281) 530-5656

ATTN: Dane Wagasey Lab Recipient: Delivery Date / Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

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bhate

01337620

HS24051959

Bhate Environmental Associates, Inc.

LHAAP-58

1608 13th Avenue South, Suite 300
Birmingham Alabama 35205

Chain of Custody and Analytical Request

Facility/Base I.D.: LHAAP

Project/Site Name: LHAAP / Site 58

Client Name:

Collected by: Scott Beesinger

Field Sample ID (30 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hh:mm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOC	Dissolved Gases	TOC	Carbon Dioxide	Anions	Arsenic					Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
Trip Blank	24-May-2024		-	TB		W	2	X													
			-																		
			-																		
			-																		
			-																		
			-																		
			-																		
			-																		
			-																		

Sample Analysis Requested

COMMENTS: STANDARD TAT Cooler # Blue Temp 4.1C 1.6 BRN 5! cup-10.1

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. Scott Beesinger	5/24/24	1430	1.		
2.			2.		
3.			3. GM	05/30/24	09:35

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: _____ Shipped No.:

_____ Method of Shipment: _____

_____ Fed Ex _____ Airbill Number:

_____ Analytical Lab: ALS 10450 Stancliff Rd. Suite 210 Houston, TX 77099 (281) 530-5656

ATTN: Dane Wagasey Lab Recipient: Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

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ALS
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

CUSTODY SEAL
Date: 5/29/24 Time: 1430
Name: Scott Beesinger
Company: BHATE

Must Deliver Next Business Day
Time and Tempature Sensitive!

ORIGIN ID:SGRA (903) 930-6193
SCOTT BEESINER
BHATE ENVIRONMENTAL ASSOCIATES
1203-B EAST GRAND AVE. PMB202

MARSHALL, TX 75670
UNITED STATES US

SHIP DATE: 14MAY24
ACTWGT: 1.00 LB MAN
CAD: 0221247/CAFE3755
DIMS: 26x14x14 IN

TO SAMPLE RECEIVING
ALS GROUP USA,CORP
10450 STANCLIFF RD.
SUITE 210
HOUSTON TX 77099
(281) 530-5868
REF: LWAAP-58=BO 100845-LA

RMA:

FedEx Express

FedEx
TRK# 6862 6805 6371

THU - 30 MAY AA
PRIORITY OVERNIGHT

AB SGRA

77099
TX-US
IAH

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HS24051959-MSVOA-SW8260 REVISED 1

ALS WO# HS24051959

right solutions.
right partner.

Form 1

Organic Analysis Data Sheet

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24051959

Client

Bhate Environmental Associates, Inc.

Project

LHAAP-58

07/03/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051959

Volatiles by EPA Volatiles Organics by Method 8260C

35AWW15_052924	Collected	Received	Matrix	Basis
HS24051959-01	05/29/24 06:50	05/30/24 09:35	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 15:11	VOA9_468713	U060614.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 15:11	VOA9_468713	U060614.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 15:11	VOA9_468713	U060614.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 15:11	VOA9_468713	U060614.D
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 15:11	VOA9_468713	U060614.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 15:11	VOA9_468713	U060614.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 15:11	VOA9_468713	U060614.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 15:11	VOA9_468713	U060614.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 15:11	VOA9_468713	U060614.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 15:11	VOA9_468713	U060614.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 15:11	VOA9_468713	U060614.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 15:11	VOA9_468713	U060614.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 15:11	VOA9_468713	U060614.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 15:11	VOA9_468713	U060614.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 15:11	VOA9_468713	U060614.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 15:11	VOA9_468713	U060614.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 15:11	VOA9_468713	U060614.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 15:11	VOA9_468713	U060614.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 15:11	VOA9_468713	U060614.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 15:11	VOA9_468713	U060614.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 15:11	VOA9_468713	U060614.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	06/06/24 15:11	VOA9_468713	U060614.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 15:11	VOA9_468713	U060614.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	06/06/24 15:11	VOA9_468713	U060614.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 15:11	VOA9_468713	U060614.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 15:11	VOA9_468713	U060614.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	06/06/24 15:11	VOA9_468713	U060614.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	06/06/24 15:11	VOA9_468713	U060614.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 15:11	VOA9_468713	U060614.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 15:11	VOA9_468713	U060614.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 15:11	VOA9_468713	U060614.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 15:11	VOA9_468713	U060614.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 15:11	VOA9_468713	U060614.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051959

Volatiles by EPA Volatiles Organics by Method 8260C

35AWW15_052924	Collected	Received	Matrix	Basis
HS24051959-01	05/29/24 06:50	05/30/24 09:35	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 15:11	VOA9_468713	U060614.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	06/06/24 15:11	VOA9_468713	U060614.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 15:11	VOA9_468713	U060614.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 15:11	VOA9_468713	U060614.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 15:11	VOA9_468713	U060614.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 15:11	VOA9_468713	U060614.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 15:11	VOA9_468713	U060614.D
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 15:11	VOA9_468713	U060614.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 15:11	VOA9_468713	U060614.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 15:11	VOA9_468713	U060614.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 15:11	VOA9_468713	U060614.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 15:11	VOA9_468713	U060614.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 15:11	VOA9_468713	U060614.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	06/06/24 15:11	VOA9_468713	U060614.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 15:11	VOA9_468713	U060614.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	06/06/24 15:11	VOA9_468713	U060614.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	06/06/24 15:11	VOA9_468713	U060614.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 15:11	VOA9_468713	U060614.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 15:11	VOA9_468713	U060614.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 15:11	VOA9_468713	U060614.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 15:11	VOA9_468713	U060614.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 15:11	VOA9_468713	U060614.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 15:11	VOA9_468713	U060614.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 15:11	VOA9_468713	U060614.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 15:11	VOA9_468713	U060614.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 15:11	VOA9_468713	U060614.D
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 15:11	VOA9_468713	U060614.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 15:11	VOA9_468713	U060614.D
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 15:11	VOA9_468713	U060614.D
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 15:11	VOA9_468713	U060614.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 15:11	VOA9_468713	U060614.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder **HS24051959**

Volatiles by EPA Volatiles Organics by Method 8260C

35AWW26_052924	Collected	Received	Matrix	Basis
HS24051959-02	05/29/24 07:30	05/30/24 09:35	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 15:32	VOA9_468713	U060615.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 15:32	VOA9_468713	U060615.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 15:32	VOA9_468713	U060615.D
1,1,2-Trichloroethane	ug/L	0.63	J	0.30	1.0	1.0	1	06/06/24 15:32	VOA9_468713	U060615.D
1,1-Dichloroethane	ug/L	84		0.20	1.0	1.0	1	06/06/24 15:32	VOA9_468713	U060615.D
1,1-Dichloroethene	ug/L	180		0.20	1.0	1.0	1	06/06/24 15:32	VOA9_468713	U060615.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 15:32	VOA9_468713	U060615.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 15:32	VOA9_468713	U060615.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 15:32	VOA9_468713	U060615.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 15:32	VOA9_468713	U060615.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 15:32	VOA9_468713	U060615.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 15:32	VOA9_468713	U060615.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 15:32	VOA9_468713	U060615.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 15:32	VOA9_468713	U060615.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 15:32	VOA9_468713	U060615.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 15:32	VOA9_468713	U060615.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 15:32	VOA9_468713	U060615.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 15:32	VOA9_468713	U060615.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 15:32	VOA9_468713	U060615.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 15:32	VOA9_468713	U060615.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 15:32	VOA9_468713	U060615.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	06/06/24 15:32	VOA9_468713	U060615.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 15:32	VOA9_468713	U060615.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	06/06/24 15:32	VOA9_468713	U060615.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 15:32	VOA9_468713	U060615.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 15:32	VOA9_468713	U060615.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	06/06/24 15:32	VOA9_468713	U060615.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	06/06/24 15:32	VOA9_468713	U060615.D
Benzene	ug/L	1.0		0.20	1.0	1.0	1	06/06/24 15:32	VOA9_468713	U060615.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 15:32	VOA9_468713	U060615.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 15:32	VOA9_468713	U060615.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 15:32	VOA9_468713	U060615.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 15:32	VOA9_468713	U060615.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder **HS24051959**

Volatiles by EPA Volatiles Organics by Method 8260C

35AWW26_052924	Collected	Received	Matrix	Basis
HS24051959-02	05/29/24 07:30	05/30/24 09:35	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 15:32	VOA9_468713	U060615.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	06/06/24 15:32	VOA9_468713	U060615.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 15:32	VOA9_468713	U060615.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 15:32	VOA9_468713	U060615.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 15:32	VOA9_468713	U060615.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 15:32	VOA9_468713	U060615.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 15:32	VOA9_468713	U060615.D
cis-1,2-Dichloroethene	ug/L	7.1		0.20	1.0	1.0	1	06/06/24 15:32	VOA9_468713	U060615.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 15:32	VOA9_468713	U060615.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 15:32	VOA9_468713	U060615.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 15:32	VOA9_468713	U060615.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 15:32	VOA9_468713	U060615.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 15:32	VOA9_468713	U060615.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	06/06/24 15:32	VOA9_468713	U060615.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 15:32	VOA9_468713	U060615.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	06/06/24 15:32	VOA9_468713	U060615.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	06/06/24 15:32	VOA9_468713	U060615.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 15:32	VOA9_468713	U060615.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 15:32	VOA9_468713	U060615.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 15:32	VOA9_468713	U060615.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 15:32	VOA9_468713	U060615.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 15:32	VOA9_468713	U060615.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 15:32	VOA9_468713	U060615.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 15:32	VOA9_468713	U060615.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 15:32	VOA9_468713	U060615.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 15:32	VOA9_468713	U060615.D
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 15:32	VOA9_468713	U060615.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 15:32	VOA9_468713	U060615.D
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 15:32	VOA9_468713	U060615.D
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 15:32	VOA9_468713	U060615.D
Vinyl chloride	ug/L	15		0.20	1.0	1.0	1	06/06/24 15:32	VOA9_468713	U060615.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder **HS24051959**

Volatiles by EPA Volatiles Organics by Method 8260C

35AWW05_052924	Collected	Received	Matrix	Basis
HS24051959-03	05/29/24 08:15	05/30/24 09:35	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 15:54	VOA9_468713	U060616.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 15:54	VOA9_468713	U060616.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 15:54	VOA9_468713	U060616.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 15:54	VOA9_468713	U060616.D
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 15:54	VOA9_468713	U060616.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 15:54	VOA9_468713	U060616.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 15:54	VOA9_468713	U060616.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 15:54	VOA9_468713	U060616.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 15:54	VOA9_468713	U060616.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 15:54	VOA9_468713	U060616.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 15:54	VOA9_468713	U060616.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 15:54	VOA9_468713	U060616.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 15:54	VOA9_468713	U060616.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 15:54	VOA9_468713	U060616.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 15:54	VOA9_468713	U060616.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 15:54	VOA9_468713	U060616.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 15:54	VOA9_468713	U060616.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 15:54	VOA9_468713	U060616.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 15:54	VOA9_468713	U060616.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 15:54	VOA9_468713	U060616.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 15:54	VOA9_468713	U060616.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	06/06/24 15:54	VOA9_468713	U060616.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 15:54	VOA9_468713	U060616.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	06/06/24 15:54	VOA9_468713	U060616.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 15:54	VOA9_468713	U060616.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 15:54	VOA9_468713	U060616.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	06/06/24 15:54	VOA9_468713	U060616.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	06/06/24 15:54	VOA9_468713	U060616.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 15:54	VOA9_468713	U060616.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 15:54	VOA9_468713	U060616.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 15:54	VOA9_468713	U060616.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 15:54	VOA9_468713	U060616.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 15:54	VOA9_468713	U060616.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051959

Volatiles by EPA Volatiles Organics by Method 8260C

35AWW05_052924	Collected	Received	Matrix	Basis
HS24051959-03	05/29/24 08:15	05/30/24 09:35	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 15:54	VOA9_468713	U060616.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	06/06/24 15:54	VOA9_468713	U060616.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 15:54	VOA9_468713	U060616.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 15:54	VOA9_468713	U060616.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 15:54	VOA9_468713	U060616.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 15:54	VOA9_468713	U060616.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 15:54	VOA9_468713	U060616.D
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 15:54	VOA9_468713	U060616.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 15:54	VOA9_468713	U060616.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 15:54	VOA9_468713	U060616.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 15:54	VOA9_468713	U060616.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 15:54	VOA9_468713	U060616.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 15:54	VOA9_468713	U060616.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	06/06/24 15:54	VOA9_468713	U060616.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 15:54	VOA9_468713	U060616.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	06/06/24 15:54	VOA9_468713	U060616.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	06/06/24 15:54	VOA9_468713	U060616.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 15:54	VOA9_468713	U060616.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 15:54	VOA9_468713	U060616.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 15:54	VOA9_468713	U060616.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 15:54	VOA9_468713	U060616.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 15:54	VOA9_468713	U060616.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 15:54	VOA9_468713	U060616.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 15:54	VOA9_468713	U060616.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 15:54	VOA9_468713	U060616.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 15:54	VOA9_468713	U060616.D
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 15:54	VOA9_468713	U060616.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 15:54	VOA9_468713	U060616.D
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 15:54	VOA9_468713	U060616.D
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 15:54	VOA9_468713	U060616.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 15:54	VOA9_468713	U060616.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder **HS24051959**

Volatiles by EPA Volatiles Organics by Method 8260C

35AWW24_052924	Collected	Received	Matrix	Basis
HS24051959-04	05/29/24 08:55	05/30/24 09:35	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 16:15	VOA9_468713	U060617.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 16:15	VOA9_468713	U060617.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 16:15	VOA9_468713	U060617.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 16:15	VOA9_468713	U060617.D
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 16:15	VOA9_468713	U060617.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 16:15	VOA9_468713	U060617.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 16:15	VOA9_468713	U060617.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 16:15	VOA9_468713	U060617.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 16:15	VOA9_468713	U060617.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 16:15	VOA9_468713	U060617.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 16:15	VOA9_468713	U060617.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 16:15	VOA9_468713	U060617.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 16:15	VOA9_468713	U060617.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 16:15	VOA9_468713	U060617.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 16:15	VOA9_468713	U060617.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 16:15	VOA9_468713	U060617.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 16:15	VOA9_468713	U060617.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 16:15	VOA9_468713	U060617.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 16:15	VOA9_468713	U060617.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 16:15	VOA9_468713	U060617.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 16:15	VOA9_468713	U060617.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	06/06/24 16:15	VOA9_468713	U060617.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 16:15	VOA9_468713	U060617.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	06/06/24 16:15	VOA9_468713	U060617.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 16:15	VOA9_468713	U060617.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 16:15	VOA9_468713	U060617.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	06/06/24 16:15	VOA9_468713	U060617.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	06/06/24 16:15	VOA9_468713	U060617.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 16:15	VOA9_468713	U060617.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 16:15	VOA9_468713	U060617.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 16:15	VOA9_468713	U060617.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 16:15	VOA9_468713	U060617.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 16:15	VOA9_468713	U060617.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051959

Volatiles by EPA Volatiles Organics by Method 8260C

35AWW24_052924	Collected	Received	Matrix	Basis
HS24051959-04	05/29/24 08:55	05/30/24 09:35	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 16:15	VOA9_468713	U060617.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	06/06/24 16:15	VOA9_468713	U060617.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 16:15	VOA9_468713	U060617.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 16:15	VOA9_468713	U060617.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 16:15	VOA9_468713	U060617.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 16:15	VOA9_468713	U060617.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 16:15	VOA9_468713	U060617.D
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 16:15	VOA9_468713	U060617.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 16:15	VOA9_468713	U060617.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 16:15	VOA9_468713	U060617.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 16:15	VOA9_468713	U060617.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 16:15	VOA9_468713	U060617.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 16:15	VOA9_468713	U060617.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	06/06/24 16:15	VOA9_468713	U060617.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 16:15	VOA9_468713	U060617.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	06/06/24 16:15	VOA9_468713	U060617.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	06/06/24 16:15	VOA9_468713	U060617.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 16:15	VOA9_468713	U060617.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 16:15	VOA9_468713	U060617.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 16:15	VOA9_468713	U060617.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 16:15	VOA9_468713	U060617.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 16:15	VOA9_468713	U060617.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 16:15	VOA9_468713	U060617.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 16:15	VOA9_468713	U060617.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 16:15	VOA9_468713	U060617.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 16:15	VOA9_468713	U060617.D
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 16:15	VOA9_468713	U060617.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 16:15	VOA9_468713	U060617.D
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 16:15	VOA9_468713	U060617.D
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 16:15	VOA9_468713	U060617.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 16:15	VOA9_468713	U060617.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder **HS24051959**

Volatiles by EPA Volatiles Organics by Method 8260C

35AWW09_052924	Collected	Received	Matrix	Basis
HS24051959-05	05/29/24 09:40	05/30/24 09:35	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/24 15:28	VOA9_468948	V060822.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/24 15:28	VOA9_468948	V060822.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	06/09/24 15:28	VOA9_468948	V060822.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/24 15:28	VOA9_468948	V060822.D
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/24 15:28	VOA9_468948	V060822.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/24 15:28	VOA9_468948	V060822.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/24 15:28	VOA9_468948	V060822.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/09/24 15:28	VOA9_468948	V060822.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/09/24 15:28	VOA9_468948	V060822.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/09/24 15:28	VOA9_468948	V060822.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/24 15:28	VOA9_468948	V060822.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/24 15:28	VOA9_468948	V060822.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/24 15:28	VOA9_468948	V060822.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/09/24 15:28	VOA9_468948	V060822.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/24 15:28	VOA9_468948	V060822.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/09/24 15:28	VOA9_468948	V060822.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/24 15:28	VOA9_468948	V060822.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/09/24 15:28	VOA9_468948	V060822.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/24 15:28	VOA9_468948	V060822.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/09/24 15:28	VOA9_468948	V060822.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/12/24 20:29	VOA7_469280	P061226.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	06/09/24 15:28	VOA9_468948	V060822.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/24 15:28	VOA9_468948	V060822.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	06/09/24 15:28	VOA9_468948	V060822.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	06/09/24 15:28	VOA9_468948	V060822.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/24 15:28	VOA9_468948	V060822.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	06/09/24 15:28	VOA9_468948	V060822.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	06/09/24 15:28	VOA9_468948	V060822.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/24 15:28	VOA9_468948	V060822.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/09/24 15:28	VOA9_468948	V060822.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/24 15:28	VOA9_468948	V060822.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/24 15:28	VOA9_468948	V060822.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	06/09/24 15:28	VOA9_468948	V060822.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051959

Volatiles by EPA Volatiles Organics by Method 8260C

35AWW09_052924	Collected	Received	Matrix	Basis
HS24051959-05	05/29/24 09:40	05/30/24 09:35	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	06/09/24 15:28	VOA9_468948	V060822.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	06/09/24 15:28	VOA9_468948	V060822.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	06/09/24 15:28	VOA9_468948	V060822.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/24 15:28	VOA9_468948	V060822.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/24 15:28	VOA9_468948	V060822.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/24 15:28	VOA9_468948	V060822.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/24 15:28	VOA9_468948	V060822.D
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/24 15:28	VOA9_468948	V060822.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/24 15:28	VOA9_468948	V060822.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/24 15:28	VOA9_468948	V060822.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/24 15:28	VOA9_468948	V060822.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/24 15:28	VOA9_468948	V060822.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/24 15:28	VOA9_468948	V060822.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	06/09/24 15:28	VOA9_468948	V060822.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/24 15:28	VOA9_468948	V060822.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	06/09/24 15:28	VOA9_468948	V060822.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	06/09/24 15:28	VOA9_468948	V060822.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/24 15:28	VOA9_468948	V060822.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/09/24 15:28	VOA9_468948	V060822.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/24 15:28	VOA9_468948	V060822.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/24 15:28	VOA9_468948	V060822.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/24 15:28	VOA9_468948	V060822.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/24 15:28	VOA9_468948	V060822.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/24 15:28	VOA9_468948	V060822.D
Tetrachloroethene	ug/L	380		1.5	5.0	5.0	5	06/06/24 16:39	VOA9_468713	U060618.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/24 15:28	VOA9_468948	V060822.D
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/24 15:28	VOA9_468948	V060822.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/24 15:28	VOA9_468948	V060822.D
Trichloroethene	ug/L	180		1.0	5.0	5.0	5	06/06/24 16:39	VOA9_468713	U060618.D
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/24 15:28	VOA9_468948	V060822.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/24 15:28	VOA9_468948	V060822.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder **HS24051959**

Volatiles by EPA Volatiles Organics by Method 8260C

35AWW09_052924_a	Collected	Received	Matrix	Basis
HS24051959-06	05/29/24 09:40	05/30/24 09:35	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/24 15:49	VOA9_468948	V060823.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/24 15:49	VOA9_468948	V060823.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	06/09/24 15:49	VOA9_468948	V060823.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/24 15:49	VOA9_468948	V060823.D
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/24 15:49	VOA9_468948	V060823.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/24 15:49	VOA9_468948	V060823.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/24 15:49	VOA9_468948	V060823.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/09/24 15:49	VOA9_468948	V060823.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/09/24 15:49	VOA9_468948	V060823.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/09/24 15:49	VOA9_468948	V060823.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/24 15:49	VOA9_468948	V060823.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/24 15:49	VOA9_468948	V060823.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/24 15:49	VOA9_468948	V060823.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/09/24 15:49	VOA9_468948	V060823.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/24 15:49	VOA9_468948	V060823.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/09/24 15:49	VOA9_468948	V060823.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/24 15:49	VOA9_468948	V060823.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/09/24 15:49	VOA9_468948	V060823.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/24 15:49	VOA9_468948	V060823.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/09/24 15:49	VOA9_468948	V060823.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/12/24 20:52	VOA7_469280	P061227.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	06/09/24 15:49	VOA9_468948	V060823.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/24 15:49	VOA9_468948	V060823.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	06/09/24 15:49	VOA9_468948	V060823.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	06/09/24 15:49	VOA9_468948	V060823.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/24 15:49	VOA9_468948	V060823.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	06/09/24 15:49	VOA9_468948	V060823.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	06/09/24 15:49	VOA9_468948	V060823.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/24 15:49	VOA9_468948	V060823.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/09/24 15:49	VOA9_468948	V060823.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/24 15:49	VOA9_468948	V060823.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/24 15:49	VOA9_468948	V060823.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	06/09/24 15:49	VOA9_468948	V060823.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051959

Volatiles by EPA Volatiles Organics by Method 8260C

35AWW09_052924_a	Collected	Received	Matrix	Basis
HS24051959-06	05/29/24 09:40	05/30/24 09:35	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	06/09/24 15:49	VOA9_468948	V060823.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	06/09/24 15:49	VOA9_468948	V060823.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	06/09/24 15:49	VOA9_468948	V060823.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/24 15:49	VOA9_468948	V060823.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/24 15:49	VOA9_468948	V060823.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/24 15:49	VOA9_468948	V060823.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/24 15:49	VOA9_468948	V060823.D
cis-1,2-Dichloroethene	ug/L	1.5		0.20	1.0	1.0	1	06/09/24 15:49	VOA9_468948	V060823.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/24 15:49	VOA9_468948	V060823.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/24 15:49	VOA9_468948	V060823.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/24 15:49	VOA9_468948	V060823.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/24 15:49	VOA9_468948	V060823.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/24 15:49	VOA9_468948	V060823.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	06/09/24 15:49	VOA9_468948	V060823.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/24 15:49	VOA9_468948	V060823.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	06/09/24 15:49	VOA9_468948	V060823.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	06/09/24 15:49	VOA9_468948	V060823.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/24 15:49	VOA9_468948	V060823.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/09/24 15:49	VOA9_468948	V060823.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/24 15:49	VOA9_468948	V060823.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/24 15:49	VOA9_468948	V060823.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/24 15:49	VOA9_468948	V060823.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/24 15:49	VOA9_468948	V060823.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/24 15:49	VOA9_468948	V060823.D
Tetrachloroethene	ug/L	430		1.5	5.0	5.0	5	06/06/24 17:03	VOA9_468713	U060619.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/24 15:49	VOA9_468948	V060823.D
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/24 15:49	VOA9_468948	V060823.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/24 15:49	VOA9_468948	V060823.D
Trichloroethene	ug/L	190		1.0	5.0	5.0	5	06/06/24 17:03	VOA9_468713	U060619.D
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/09/24 15:49	VOA9_468948	V060823.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	06/09/24 15:49	VOA9_468948	V060823.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051959

Volatiles by EPA Volatiles Organics by Method 8260C

35AWW21_052924	Collected	Received	Matrix	Basis
HS24051959-07	05/29/24 10:25	05/30/24 09:35	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 12:37	VOA9_468713	U060607.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 12:37	VOA9_468713	U060607.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 12:37	VOA9_468713	U060607.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 12:37	VOA9_468713	U060607.D
1,1-Dichloroethane	ug/L	4.0		0.20	1.0	1.0	1	06/06/24 12:37	VOA9_468713	U060607.D
1,1-Dichloroethene	ug/L	3.6		0.20	1.0	1.0	1	06/06/24 12:37	VOA9_468713	U060607.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 12:37	VOA9_468713	U060607.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 12:37	VOA9_468713	U060607.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 12:37	VOA9_468713	U060607.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 12:37	VOA9_468713	U060607.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 12:37	VOA9_468713	U060607.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 12:37	VOA9_468713	U060607.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 12:37	VOA9_468713	U060607.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 12:37	VOA9_468713	U060607.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 12:37	VOA9_468713	U060607.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 12:37	VOA9_468713	U060607.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 12:37	VOA9_468713	U060607.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 12:37	VOA9_468713	U060607.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 12:37	VOA9_468713	U060607.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 12:37	VOA9_468713	U060607.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 12:37	VOA9_468713	U060607.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	06/06/24 12:37	VOA9_468713	U060607.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 12:37	VOA9_468713	U060607.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	06/06/24 12:37	VOA9_468713	U060607.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 12:37	VOA9_468713	U060607.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 12:37	VOA9_468713	U060607.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	06/06/24 12:37	VOA9_468713	U060607.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	06/06/24 12:37	VOA9_468713	U060607.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 12:37	VOA9_468713	U060607.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 12:37	VOA9_468713	U060607.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 12:37	VOA9_468713	U060607.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 12:37	VOA9_468713	U060607.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 12:37	VOA9_468713	U060607.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051959

Volatiles by EPA Volatiles Organics by Method 8260C

35AWW21_052924	Collected	Received	Matrix	Basis
HS24051959-07	05/29/24 10:25	05/30/24 09:35	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 12:37	VOA9_468713	U060607.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	06/06/24 12:37	VOA9_468713	U060607.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 12:37	VOA9_468713	U060607.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 12:37	VOA9_468713	U060607.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 12:37	VOA9_468713	U060607.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 12:37	VOA9_468713	U060607.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 12:37	VOA9_468713	U060607.D
cis-1,2-Dichloroethene	ug/L	1.1		0.20	1.0	1.0	1	06/06/24 12:37	VOA9_468713	U060607.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 12:37	VOA9_468713	U060607.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 12:37	VOA9_468713	U060607.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 12:37	VOA9_468713	U060607.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 12:37	VOA9_468713	U060607.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 12:37	VOA9_468713	U060607.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	06/06/24 12:37	VOA9_468713	U060607.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 12:37	VOA9_468713	U060607.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	06/06/24 12:37	VOA9_468713	U060607.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	06/06/24 12:37	VOA9_468713	U060607.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 12:37	VOA9_468713	U060607.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 12:37	VOA9_468713	U060607.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 12:37	VOA9_468713	U060607.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 12:37	VOA9_468713	U060607.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 12:37	VOA9_468713	U060607.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 12:37	VOA9_468713	U060607.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 12:37	VOA9_468713	U060607.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 12:37	VOA9_468713	U060607.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 12:37	VOA9_468713	U060607.D
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 12:37	VOA9_468713	U060607.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 12:37	VOA9_468713	U060607.D
Trichloroethene	ug/L	0.77	J	0.20	1.0	1.0	1	06/06/24 12:37	VOA9_468713	U060607.D
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 12:37	VOA9_468713	U060607.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 12:37	VOA9_468713	U060607.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder **HS24051959**

Volatiles by EPA Volatiles Organics by Method 8260C

35AWW22_052924	Collected	Received	Matrix	Basis
HS24051959-08	05/29/24 11:10	05/30/24 09:35	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 17:24	VOA9_468713	U060620.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 17:24	VOA9_468713	U060620.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 17:24	VOA9_468713	U060620.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 17:24	VOA9_468713	U060620.D
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 17:24	VOA9_468713	U060620.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 17:24	VOA9_468713	U060620.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 17:24	VOA9_468713	U060620.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 17:24	VOA9_468713	U060620.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 17:24	VOA9_468713	U060620.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 17:24	VOA9_468713	U060620.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 17:24	VOA9_468713	U060620.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 17:24	VOA9_468713	U060620.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 17:24	VOA9_468713	U060620.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 17:24	VOA9_468713	U060620.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 17:24	VOA9_468713	U060620.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 17:24	VOA9_468713	U060620.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 17:24	VOA9_468713	U060620.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 17:24	VOA9_468713	U060620.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 17:24	VOA9_468713	U060620.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 17:24	VOA9_468713	U060620.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 17:24	VOA9_468713	U060620.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	06/06/24 17:24	VOA9_468713	U060620.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 17:24	VOA9_468713	U060620.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	06/06/24 17:24	VOA9_468713	U060620.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 17:24	VOA9_468713	U060620.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 17:24	VOA9_468713	U060620.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	06/06/24 17:24	VOA9_468713	U060620.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	06/06/24 17:24	VOA9_468713	U060620.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 17:24	VOA9_468713	U060620.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 17:24	VOA9_468713	U060620.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 17:24	VOA9_468713	U060620.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 17:24	VOA9_468713	U060620.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 17:24	VOA9_468713	U060620.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051959

Volatiles by EPA Volatiles Organics by Method 8260C

35AWW22_052924	Collected	Received	Matrix	Basis
HS24051959-08	05/29/24 11:10	05/30/24 09:35	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 17:24	VOA9_468713	U060620.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	06/06/24 17:24	VOA9_468713	U060620.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 17:24	VOA9_468713	U060620.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 17:24	VOA9_468713	U060620.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 17:24	VOA9_468713	U060620.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 17:24	VOA9_468713	U060620.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 17:24	VOA9_468713	U060620.D
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 17:24	VOA9_468713	U060620.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 17:24	VOA9_468713	U060620.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 17:24	VOA9_468713	U060620.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 17:24	VOA9_468713	U060620.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 17:24	VOA9_468713	U060620.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 17:24	VOA9_468713	U060620.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	06/06/24 17:24	VOA9_468713	U060620.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 17:24	VOA9_468713	U060620.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	06/06/24 17:24	VOA9_468713	U060620.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	06/06/24 17:24	VOA9_468713	U060620.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 17:24	VOA9_468713	U060620.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 17:24	VOA9_468713	U060620.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 17:24	VOA9_468713	U060620.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 17:24	VOA9_468713	U060620.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 17:24	VOA9_468713	U060620.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 17:24	VOA9_468713	U060620.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 17:24	VOA9_468713	U060620.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 17:24	VOA9_468713	U060620.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 17:24	VOA9_468713	U060620.D
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 17:24	VOA9_468713	U060620.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 17:24	VOA9_468713	U060620.D
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 17:24	VOA9_468713	U060620.D
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 17:24	VOA9_468713	U060620.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 17:24	VOA9_468713	U060620.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051959

Volatiles by EPA Volatiles Organics by Method 8260C

35AWW12_052924	Collected	Received	Matrix	Basis
HS24051959-09	05/29/24 11:20	05/30/24 09:35	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 17:46	VOA9_468713	U060621.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 17:46	VOA9_468713	U060621.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 17:46	VOA9_468713	U060621.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 17:46	VOA9_468713	U060621.D
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 17:46	VOA9_468713	U060621.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 17:46	VOA9_468713	U060621.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 17:46	VOA9_468713	U060621.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 17:46	VOA9_468713	U060621.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 17:46	VOA9_468713	U060621.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 17:46	VOA9_468713	U060621.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 17:46	VOA9_468713	U060621.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 17:46	VOA9_468713	U060621.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 17:46	VOA9_468713	U060621.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 17:46	VOA9_468713	U060621.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 17:46	VOA9_468713	U060621.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 17:46	VOA9_468713	U060621.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 17:46	VOA9_468713	U060621.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 17:46	VOA9_468713	U060621.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 17:46	VOA9_468713	U060621.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 17:46	VOA9_468713	U060621.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 17:46	VOA9_468713	U060621.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	06/06/24 17:46	VOA9_468713	U060621.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 17:46	VOA9_468713	U060621.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	06/06/24 17:46	VOA9_468713	U060621.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 17:46	VOA9_468713	U060621.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 17:46	VOA9_468713	U060621.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	06/06/24 17:46	VOA9_468713	U060621.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	06/06/24 17:46	VOA9_468713	U060621.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 17:46	VOA9_468713	U060621.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 17:46	VOA9_468713	U060621.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 17:46	VOA9_468713	U060621.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 17:46	VOA9_468713	U060621.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 17:46	VOA9_468713	U060621.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051959

Volatiles by EPA Volatiles Organics by Method 8260C

35AWW12_052924	Collected	Received	Matrix	Basis
HS24051959-09	05/29/24 11:20	05/30/24 09:35	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 17:46	VOA9_468713	U060621.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	06/06/24 17:46	VOA9_468713	U060621.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 17:46	VOA9_468713	U060621.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 17:46	VOA9_468713	U060621.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 17:46	VOA9_468713	U060621.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 17:46	VOA9_468713	U060621.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 17:46	VOA9_468713	U060621.D
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 17:46	VOA9_468713	U060621.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 17:46	VOA9_468713	U060621.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 17:46	VOA9_468713	U060621.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 17:46	VOA9_468713	U060621.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 17:46	VOA9_468713	U060621.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 17:46	VOA9_468713	U060621.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	06/06/24 17:46	VOA9_468713	U060621.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 17:46	VOA9_468713	U060621.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	06/06/24 17:46	VOA9_468713	U060621.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	06/06/24 17:46	VOA9_468713	U060621.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 17:46	VOA9_468713	U060621.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 17:46	VOA9_468713	U060621.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 17:46	VOA9_468713	U060621.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 17:46	VOA9_468713	U060621.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 17:46	VOA9_468713	U060621.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 17:46	VOA9_468713	U060621.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 17:46	VOA9_468713	U060621.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 17:46	VOA9_468713	U060621.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 17:46	VOA9_468713	U060621.D
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 17:46	VOA9_468713	U060621.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 17:46	VOA9_468713	U060621.D
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 17:46	VOA9_468713	U060621.D
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 17:46	VOA9_468713	U060621.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 17:46	VOA9_468713	U060621.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder **HS24051959**

Volatiles by EPA Volatiles Organics by Method 8260C

03WW01_052824	Collected	Received	Matrix	Basis
HS24051959-10	05/28/24 07:30	05/30/24 09:35	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 18:07	VOA9_468713	U060622.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 18:07	VOA9_468713	U060622.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 18:07	VOA9_468713	U060622.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 18:07	VOA9_468713	U060622.D
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 18:07	VOA9_468713	U060622.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 18:07	VOA9_468713	U060622.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 18:07	VOA9_468713	U060622.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 18:07	VOA9_468713	U060622.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 18:07	VOA9_468713	U060622.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 18:07	VOA9_468713	U060622.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 18:07	VOA9_468713	U060622.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 18:07	VOA9_468713	U060622.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 18:07	VOA9_468713	U060622.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 18:07	VOA9_468713	U060622.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 18:07	VOA9_468713	U060622.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 18:07	VOA9_468713	U060622.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 18:07	VOA9_468713	U060622.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 18:07	VOA9_468713	U060622.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 18:07	VOA9_468713	U060622.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 18:07	VOA9_468713	U060622.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 18:07	VOA9_468713	U060622.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	06/06/24 18:07	VOA9_468713	U060622.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 18:07	VOA9_468713	U060622.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	06/06/24 18:07	VOA9_468713	U060622.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 18:07	VOA9_468713	U060622.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 18:07	VOA9_468713	U060622.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	06/06/24 18:07	VOA9_468713	U060622.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	06/06/24 18:07	VOA9_468713	U060622.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 18:07	VOA9_468713	U060622.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 18:07	VOA9_468713	U060622.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 18:07	VOA9_468713	U060622.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 18:07	VOA9_468713	U060622.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 18:07	VOA9_468713	U060622.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder **HS24051959**

Volatiles by EPA Volatiles Organics by Method 8260C

03WW01_052824	Collected	Received	Matrix	Basis
HS24051959-10	05/28/24 07:30	05/30/24 09:35	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 18:07	VOA9_468713	U060622.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	06/06/24 18:07	VOA9_468713	U060622.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 18:07	VOA9_468713	U060622.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 18:07	VOA9_468713	U060622.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 18:07	VOA9_468713	U060622.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 18:07	VOA9_468713	U060622.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 18:07	VOA9_468713	U060622.D
cis-1,2-Dichloroethene	ug/L	9.8		0.20	1.0	1.0	1	06/06/24 18:07	VOA9_468713	U060622.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 18:07	VOA9_468713	U060622.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 18:07	VOA9_468713	U060622.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 18:07	VOA9_468713	U060622.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 18:07	VOA9_468713	U060622.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 18:07	VOA9_468713	U060622.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	06/06/24 18:07	VOA9_468713	U060622.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 18:07	VOA9_468713	U060622.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	06/06/24 18:07	VOA9_468713	U060622.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	06/06/24 18:07	VOA9_468713	U060622.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 18:07	VOA9_468713	U060622.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 18:07	VOA9_468713	U060622.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 18:07	VOA9_468713	U060622.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 18:07	VOA9_468713	U060622.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 18:07	VOA9_468713	U060622.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 18:07	VOA9_468713	U060622.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 18:07	VOA9_468713	U060622.D
Tetrachloroethene	ug/L	4.8		0.30	1.0	1.0	1	06/06/24 18:07	VOA9_468713	U060622.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 18:07	VOA9_468713	U060622.D
trans-1,2-Dichloroethene	ug/L	1.2		0.20	1.0	1.0	1	06/06/24 18:07	VOA9_468713	U060622.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 18:07	VOA9_468713	U060622.D
Trichloroethene	ug/L	7.8		0.20	1.0	1.0	1	06/06/24 18:07	VOA9_468713	U060622.D
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 18:07	VOA9_468713	U060622.D
Vinyl chloride	ug/L	7.6		0.20	1.0	1.0	1	06/06/24 18:07	VOA9_468713	U060622.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder **HS24051959**

Volatiles by EPA Volatiles Organics by Method 8260C

35AWW08_052824	Collected	Received	Matrix	Basis
HS24051959-11	05/28/24 08:10	05/30/24 09:35	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 18:29	VOA9_468713	U060623.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 18:29	VOA9_468713	U060623.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 18:29	VOA9_468713	U060623.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 18:29	VOA9_468713	U060623.D
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 18:29	VOA9_468713	U060623.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 18:29	VOA9_468713	U060623.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 18:29	VOA9_468713	U060623.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 18:29	VOA9_468713	U060623.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 18:29	VOA9_468713	U060623.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 18:29	VOA9_468713	U060623.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 18:29	VOA9_468713	U060623.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 18:29	VOA9_468713	U060623.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 18:29	VOA9_468713	U060623.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 18:29	VOA9_468713	U060623.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 18:29	VOA9_468713	U060623.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 18:29	VOA9_468713	U060623.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 18:29	VOA9_468713	U060623.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 18:29	VOA9_468713	U060623.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 18:29	VOA9_468713	U060623.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 18:29	VOA9_468713	U060623.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 18:29	VOA9_468713	U060623.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	06/06/24 18:29	VOA9_468713	U060623.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 18:29	VOA9_468713	U060623.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	06/06/24 18:29	VOA9_468713	U060623.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 18:29	VOA9_468713	U060623.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 18:29	VOA9_468713	U060623.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	06/06/24 18:29	VOA9_468713	U060623.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	06/06/24 18:29	VOA9_468713	U060623.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 18:29	VOA9_468713	U060623.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 18:29	VOA9_468713	U060623.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 18:29	VOA9_468713	U060623.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 18:29	VOA9_468713	U060623.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 18:29	VOA9_468713	U060623.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051959

Volatiles by EPA Volatiles Organics by Method 8260C

35AWW08_052824	Collected	Received	Matrix	Basis
HS24051959-11	05/28/24 08:10	05/30/24 09:35	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 18:29	VOA9_468713	U060623.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	06/06/24 18:29	VOA9_468713	U060623.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 18:29	VOA9_468713	U060623.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 18:29	VOA9_468713	U060623.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 18:29	VOA9_468713	U060623.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 18:29	VOA9_468713	U060623.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 18:29	VOA9_468713	U060623.D
cis-1,2-Dichloroethene	ug/L	4.3		0.20	1.0	1.0	1	06/06/24 18:29	VOA9_468713	U060623.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 18:29	VOA9_468713	U060623.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 18:29	VOA9_468713	U060623.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 18:29	VOA9_468713	U060623.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 18:29	VOA9_468713	U060623.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 18:29	VOA9_468713	U060623.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	06/06/24 18:29	VOA9_468713	U060623.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 18:29	VOA9_468713	U060623.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	06/06/24 18:29	VOA9_468713	U060623.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	06/06/24 18:29	VOA9_468713	U060623.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 18:29	VOA9_468713	U060623.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 18:29	VOA9_468713	U060623.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 18:29	VOA9_468713	U060623.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 18:29	VOA9_468713	U060623.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 18:29	VOA9_468713	U060623.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 18:29	VOA9_468713	U060623.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 18:29	VOA9_468713	U060623.D
Tetrachloroethene	ug/L	2.3		0.30	1.0	1.0	1	06/06/24 18:29	VOA9_468713	U060623.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 18:29	VOA9_468713	U060623.D
trans-1,2-Dichloroethene	ug/L	2.1		0.20	1.0	1.0	1	06/06/24 18:29	VOA9_468713	U060623.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 18:29	VOA9_468713	U060623.D
Trichloroethene	ug/L	2.8		0.20	1.0	1.0	1	06/06/24 18:29	VOA9_468713	U060623.D
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 18:29	VOA9_468713	U060623.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 18:29	VOA9_468713	U060623.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder **HS24051959**

Volatiles by EPA Volatiles Organics by Method 8260C

35AWW01_052824	Collected	Received	Matrix	Basis
HS24051959-12	05/28/24 08:50	05/30/24 09:35	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 18:50	VOA9_468713	U060624.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 18:50	VOA9_468713	U060624.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 18:50	VOA9_468713	U060624.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 18:50	VOA9_468713	U060624.D
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 18:50	VOA9_468713	U060624.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 18:50	VOA9_468713	U060624.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 18:50	VOA9_468713	U060624.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 18:50	VOA9_468713	U060624.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 18:50	VOA9_468713	U060624.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 18:50	VOA9_468713	U060624.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 18:50	VOA9_468713	U060624.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 18:50	VOA9_468713	U060624.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 18:50	VOA9_468713	U060624.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 18:50	VOA9_468713	U060624.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 18:50	VOA9_468713	U060624.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 18:50	VOA9_468713	U060624.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 18:50	VOA9_468713	U060624.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 18:50	VOA9_468713	U060624.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 18:50	VOA9_468713	U060624.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 18:50	VOA9_468713	U060624.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 18:50	VOA9_468713	U060624.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	06/06/24 18:50	VOA9_468713	U060624.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 18:50	VOA9_468713	U060624.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	06/06/24 18:50	VOA9_468713	U060624.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 18:50	VOA9_468713	U060624.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 18:50	VOA9_468713	U060624.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	06/06/24 18:50	VOA9_468713	U060624.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	06/06/24 18:50	VOA9_468713	U060624.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 18:50	VOA9_468713	U060624.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 18:50	VOA9_468713	U060624.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 18:50	VOA9_468713	U060624.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 18:50	VOA9_468713	U060624.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 18:50	VOA9_468713	U060624.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder **HS24051959**

Volatiles by EPA Volatiles Organics by Method 8260C

35AWW01_052824	Collected	Received	Matrix	Basis
HS24051959-12	05/28/24 08:50	05/30/24 09:35	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 18:50	VOA9_468713	U060624.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	06/06/24 18:50	VOA9_468713	U060624.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 18:50	VOA9_468713	U060624.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 18:50	VOA9_468713	U060624.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 18:50	VOA9_468713	U060624.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 18:50	VOA9_468713	U060624.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 18:50	VOA9_468713	U060624.D
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 18:50	VOA9_468713	U060624.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 18:50	VOA9_468713	U060624.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 18:50	VOA9_468713	U060624.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 18:50	VOA9_468713	U060624.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 18:50	VOA9_468713	U060624.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 18:50	VOA9_468713	U060624.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	06/06/24 18:50	VOA9_468713	U060624.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 18:50	VOA9_468713	U060624.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	06/06/24 18:50	VOA9_468713	U060624.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	06/06/24 18:50	VOA9_468713	U060624.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 18:50	VOA9_468713	U060624.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 18:50	VOA9_468713	U060624.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 18:50	VOA9_468713	U060624.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 18:50	VOA9_468713	U060624.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 18:50	VOA9_468713	U060624.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 18:50	VOA9_468713	U060624.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 18:50	VOA9_468713	U060624.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 18:50	VOA9_468713	U060624.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 18:50	VOA9_468713	U060624.D
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 18:50	VOA9_468713	U060624.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 18:50	VOA9_468713	U060624.D
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 18:50	VOA9_468713	U060624.D
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 18:50	VOA9_468713	U060624.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 18:50	VOA9_468713	U060624.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder **HS24051959**

Volatiles by EPA Volatiles Organics by Method 8260C

35AWW13_052824	Collected	Received	Matrix	Basis
HS24051959-13	05/28/24 14:50	05/30/24 09:35	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 19:12	VOA9_468713	U060625.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 19:12	VOA9_468713	U060625.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 19:12	VOA9_468713	U060625.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 19:12	VOA9_468713	U060625.D
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 19:12	VOA9_468713	U060625.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 19:12	VOA9_468713	U060625.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 19:12	VOA9_468713	U060625.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 19:12	VOA9_468713	U060625.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 19:12	VOA9_468713	U060625.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 19:12	VOA9_468713	U060625.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 19:12	VOA9_468713	U060625.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 19:12	VOA9_468713	U060625.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 19:12	VOA9_468713	U060625.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 19:12	VOA9_468713	U060625.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 19:12	VOA9_468713	U060625.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 19:12	VOA9_468713	U060625.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 19:12	VOA9_468713	U060625.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 19:12	VOA9_468713	U060625.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 19:12	VOA9_468713	U060625.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 19:12	VOA9_468713	U060625.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 19:12	VOA9_468713	U060625.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	06/06/24 19:12	VOA9_468713	U060625.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 19:12	VOA9_468713	U060625.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	06/06/24 19:12	VOA9_468713	U060625.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 19:12	VOA9_468713	U060625.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 19:12	VOA9_468713	U060625.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	06/06/24 19:12	VOA9_468713	U060625.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	06/06/24 19:12	VOA9_468713	U060625.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 19:12	VOA9_468713	U060625.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 19:12	VOA9_468713	U060625.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 19:12	VOA9_468713	U060625.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 19:12	VOA9_468713	U060625.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 19:12	VOA9_468713	U060625.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder **HS24051959**

Volatiles by EPA Volatiles Organics by Method 8260C

35AWW13_052824	Collected	Received	Matrix	Basis
HS24051959-13	05/28/24 14:50	05/30/24 09:35	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 19:12	VOA9_468713	U060625.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	06/06/24 19:12	VOA9_468713	U060625.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 19:12	VOA9_468713	U060625.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 19:12	VOA9_468713	U060625.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 19:12	VOA9_468713	U060625.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 19:12	VOA9_468713	U060625.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 19:12	VOA9_468713	U060625.D
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 19:12	VOA9_468713	U060625.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 19:12	VOA9_468713	U060625.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 19:12	VOA9_468713	U060625.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 19:12	VOA9_468713	U060625.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 19:12	VOA9_468713	U060625.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 19:12	VOA9_468713	U060625.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	06/06/24 19:12	VOA9_468713	U060625.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 19:12	VOA9_468713	U060625.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	06/06/24 19:12	VOA9_468713	U060625.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	06/06/24 19:12	VOA9_468713	U060625.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 19:12	VOA9_468713	U060625.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 19:12	VOA9_468713	U060625.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 19:12	VOA9_468713	U060625.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 19:12	VOA9_468713	U060625.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 19:12	VOA9_468713	U060625.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 19:12	VOA9_468713	U060625.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 19:12	VOA9_468713	U060625.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 19:12	VOA9_468713	U060625.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 19:12	VOA9_468713	U060625.D
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 19:12	VOA9_468713	U060625.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 19:12	VOA9_468713	U060625.D
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 19:12	VOA9_468713	U060625.D
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 19:12	VOA9_468713	U060625.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 19:12	VOA9_468713	U060625.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder **HS24051959**

Volatiles by EPA Volatiles Organics by Method 8260C

35AWW10_052824	Collected	Received	Matrix	Basis
HS24051959-14	05/28/24 14:50	05/30/24 09:35	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/10/24 13:02	VOA9_469054	C061010.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/10/24 13:02	VOA9_469054	C061010.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	06/10/24 13:02	VOA9_469054	C061010.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/10/24 13:02	VOA9_469054	C061010.D
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/10/24 13:02	VOA9_469054	C061010.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/10/24 13:02	VOA9_469054	C061010.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	06/10/24 13:02	VOA9_469054	C061010.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/10/24 13:02	VOA9_469054	C061010.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/10/24 13:02	VOA9_469054	C061010.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/10/24 13:02	VOA9_469054	C061010.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/10/24 13:02	VOA9_469054	C061010.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/10/24 13:02	VOA9_469054	C061010.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/10/24 13:02	VOA9_469054	C061010.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/10/24 13:02	VOA9_469054	C061010.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/10/24 13:02	VOA9_469054	C061010.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/10/24 13:02	VOA9_469054	C061010.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/10/24 13:02	VOA9_469054	C061010.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/10/24 13:02	VOA9_469054	C061010.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	06/10/24 13:02	VOA9_469054	C061010.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/10/24 13:02	VOA9_469054	C061010.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/10/24 13:02	VOA9_469054	C061010.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	06/10/24 13:02	VOA9_469054	C061010.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/10/24 13:02	VOA9_469054	C061010.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	06/10/24 13:02	VOA9_469054	C061010.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	06/10/24 13:02	VOA9_469054	C061010.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/10/24 13:02	VOA9_469054	C061010.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	06/10/24 13:02	VOA9_469054	C061010.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	06/10/24 13:02	VOA9_469054	C061010.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	06/10/24 13:02	VOA9_469054	C061010.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/10/24 13:02	VOA9_469054	C061010.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/10/24 13:02	VOA9_469054	C061010.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/10/24 13:02	VOA9_469054	C061010.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	06/10/24 13:02	VOA9_469054	C061010.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051959

Volatiles by EPA Volatiles Organics by Method 8260C

35AWW10_052824	Collected	Received	Matrix	Basis
HS24051959-14	05/28/24 14:50	05/30/24 09:35	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	06/10/24 13:02	VOA9_469054	C061010.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	06/10/24 13:02	VOA9_469054	C061010.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	06/10/24 13:02	VOA9_469054	C061010.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/10/24 13:02	VOA9_469054	C061010.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/10/24 13:02	VOA9_469054	C061010.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	06/10/24 13:02	VOA9_469054	C061010.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/10/24 13:02	VOA9_469054	C061010.D
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/10/24 13:02	VOA9_469054	C061010.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/10/24 13:02	VOA9_469054	C061010.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/10/24 13:02	VOA9_469054	C061010.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/10/24 13:02	VOA9_469054	C061010.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/10/24 13:02	VOA9_469054	C061010.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/10/24 13:02	VOA9_469054	C061010.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	06/10/24 13:02	VOA9_469054	C061010.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/10/24 13:02	VOA9_469054	C061010.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	06/10/24 13:02	VOA9_469054	C061010.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	06/10/24 13:02	VOA9_469054	C061010.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	06/07/24 07:55	VOA9_468791	UV60627.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/10/24 13:02	VOA9_469054	C061010.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/10/24 13:02	VOA9_469054	C061010.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	06/10/24 13:02	VOA9_469054	C061010.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/10/24 13:02	VOA9_469054	C061010.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	06/10/24 13:02	VOA9_469054	C061010.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/10/24 13:02	VOA9_469054	C061010.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	06/10/24 13:02	VOA9_469054	C061010.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	06/10/24 13:02	VOA9_469054	C061010.D
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/10/24 13:02	VOA9_469054	C061010.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/10/24 13:02	VOA9_469054	C061010.D
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/10/24 13:02	VOA9_469054	C061010.D
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/10/24 13:02	VOA9_469054	C061010.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	06/10/24 13:02	VOA9_469054	C061010.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder **HS24051959**

Volatiles by EPA Volatiles Organics by Method 8260C

LHSMW06_052824	Collected	Received	Matrix	Basis
HS24051959-15	05/28/24 16:10	05/30/24 09:35	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 19:33	VOA9_468713	U060626.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 19:33	VOA9_468713	U060626.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 19:33	VOA9_468713	U060626.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 19:33	VOA9_468713	U060626.D
1,1-Dichloroethane	ug/L	8.8		0.20	1.0	1.0	1	06/06/24 19:33	VOA9_468713	U060626.D
1,1-Dichloroethene	ug/L	12		0.20	1.0	1.0	1	06/06/24 19:33	VOA9_468713	U060626.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 19:33	VOA9_468713	U060626.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 19:33	VOA9_468713	U060626.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 19:33	VOA9_468713	U060626.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 19:33	VOA9_468713	U060626.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 19:33	VOA9_468713	U060626.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 19:33	VOA9_468713	U060626.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 19:33	VOA9_468713	U060626.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 19:33	VOA9_468713	U060626.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 19:33	VOA9_468713	U060626.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 19:33	VOA9_468713	U060626.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 19:33	VOA9_468713	U060626.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 19:33	VOA9_468713	U060626.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 19:33	VOA9_468713	U060626.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 19:33	VOA9_468713	U060626.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 19:33	VOA9_468713	U060626.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	06/06/24 19:33	VOA9_468713	U060626.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 19:33	VOA9_468713	U060626.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	06/06/24 19:33	VOA9_468713	U060626.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 19:33	VOA9_468713	U060626.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 19:33	VOA9_468713	U060626.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	06/06/24 19:33	VOA9_468713	U060626.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	06/06/24 19:33	VOA9_468713	U060626.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 19:33	VOA9_468713	U060626.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 19:33	VOA9_468713	U060626.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 19:33	VOA9_468713	U060626.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 19:33	VOA9_468713	U060626.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 19:33	VOA9_468713	U060626.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051959

Volatiles by EPA Volatiles Organics by Method 8260C

LHSMW06_052824	Collected	Received	Matrix	Basis
HS24051959-15	05/28/24 16:10	05/30/24 09:35	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 19:33	VOA9_468713	U060626.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	06/06/24 19:33	VOA9_468713	U060626.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 19:33	VOA9_468713	U060626.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 19:33	VOA9_468713	U060626.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 19:33	VOA9_468713	U060626.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 19:33	VOA9_468713	U060626.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 19:33	VOA9_468713	U060626.D
cis-1,2-Dichloroethene	ug/L	160		0.20	1.0	1.0	1	06/06/24 19:33	VOA9_468713	U060626.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 19:33	VOA9_468713	U060626.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 19:33	VOA9_468713	U060626.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 19:33	VOA9_468713	U060626.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 19:33	VOA9_468713	U060626.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 19:33	VOA9_468713	U060626.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	06/06/24 19:33	VOA9_468713	U060626.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 19:33	VOA9_468713	U060626.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	06/06/24 19:33	VOA9_468713	U060626.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	06/06/24 19:33	VOA9_468713	U060626.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 19:33	VOA9_468713	U060626.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 19:33	VOA9_468713	U060626.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 19:33	VOA9_468713	U060626.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 19:33	VOA9_468713	U060626.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 19:33	VOA9_468713	U060626.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 19:33	VOA9_468713	U060626.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 19:33	VOA9_468713	U060626.D
Tetrachloroethene	ug/L	2.6		0.30	1.0	1.0	1	06/06/24 19:33	VOA9_468713	U060626.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 19:33	VOA9_468713	U060626.D
trans-1,2-Dichloroethene	ug/L	2.2		0.20	1.0	1.0	1	06/06/24 19:33	VOA9_468713	U060626.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 19:33	VOA9_468713	U060626.D
Trichloroethene	ug/L	19		0.20	1.0	1.0	1	06/06/24 19:33	VOA9_468713	U060626.D
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 19:33	VOA9_468713	U060626.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 19:33	VOA9_468713	U060626.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051959

Volatiles by EPA Volatiles Organics by Method 8260C

LHSMW06_052824_a	Collected	Received	Matrix	Basis
HS24051959-16	05/28/24 16:10	05/30/24 09:35	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 19:54	VOA9_468713	U060627.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 19:54	VOA9_468713	U060627.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 19:54	VOA9_468713	U060627.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 19:54	VOA9_468713	U060627.D
1,1-Dichloroethane	ug/L	8.7		0.20	1.0	1.0	1	06/06/24 19:54	VOA9_468713	U060627.D
1,1-Dichloroethene	ug/L	12		0.20	1.0	1.0	1	06/06/24 19:54	VOA9_468713	U060627.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 19:54	VOA9_468713	U060627.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 19:54	VOA9_468713	U060627.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 19:54	VOA9_468713	U060627.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 19:54	VOA9_468713	U060627.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 19:54	VOA9_468713	U060627.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 19:54	VOA9_468713	U060627.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 19:54	VOA9_468713	U060627.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 19:54	VOA9_468713	U060627.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 19:54	VOA9_468713	U060627.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 19:54	VOA9_468713	U060627.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 19:54	VOA9_468713	U060627.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 19:54	VOA9_468713	U060627.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 19:54	VOA9_468713	U060627.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 19:54	VOA9_468713	U060627.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 19:54	VOA9_468713	U060627.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	06/06/24 19:54	VOA9_468713	U060627.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 19:54	VOA9_468713	U060627.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	06/06/24 19:54	VOA9_468713	U060627.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 19:54	VOA9_468713	U060627.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 19:54	VOA9_468713	U060627.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	06/06/24 19:54	VOA9_468713	U060627.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	06/06/24 19:54	VOA9_468713	U060627.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 19:54	VOA9_468713	U060627.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 19:54	VOA9_468713	U060627.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 19:54	VOA9_468713	U060627.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 19:54	VOA9_468713	U060627.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 19:54	VOA9_468713	U060627.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051959

Volatiles by EPA Volatiles Organics by Method 8260C

LHSMW06_052824_a	Collected	Received	Matrix	Basis
HS24051959-16	05/28/24 16:10	05/30/24 09:35	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 19:54	VOA9_468713	U060627.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	06/06/24 19:54	VOA9_468713	U060627.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 19:54	VOA9_468713	U060627.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 19:54	VOA9_468713	U060627.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 19:54	VOA9_468713	U060627.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 19:54	VOA9_468713	U060627.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 19:54	VOA9_468713	U060627.D
cis-1,2-Dichloroethene	ug/L	160		0.20	1.0	1.0	1	06/06/24 19:54	VOA9_468713	U060627.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 19:54	VOA9_468713	U060627.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 19:54	VOA9_468713	U060627.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 19:54	VOA9_468713	U060627.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 19:54	VOA9_468713	U060627.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 19:54	VOA9_468713	U060627.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	06/06/24 19:54	VOA9_468713	U060627.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 19:54	VOA9_468713	U060627.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	06/06/24 19:54	VOA9_468713	U060627.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	06/06/24 19:54	VOA9_468713	U060627.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 19:54	VOA9_468713	U060627.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 19:54	VOA9_468713	U060627.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 19:54	VOA9_468713	U060627.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 19:54	VOA9_468713	U060627.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 19:54	VOA9_468713	U060627.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 19:54	VOA9_468713	U060627.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 19:54	VOA9_468713	U060627.D
Tetrachloroethene	ug/L	2.6		0.30	1.0	1.0	1	06/06/24 19:54	VOA9_468713	U060627.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 19:54	VOA9_468713	U060627.D
trans-1,2-Dichloroethene	ug/L	2.3		0.20	1.0	1.0	1	06/06/24 19:54	VOA9_468713	U060627.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 19:54	VOA9_468713	U060627.D
Trichloroethene	ug/L	19		0.20	1.0	1.0	1	06/06/24 19:54	VOA9_468713	U060627.D
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 19:54	VOA9_468713	U060627.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 19:54	VOA9_468713	U060627.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder **HS24051959**

Volatiles by EPA Volatiles Organics by Method 8260C

35AWW16_052824	Collected	Received	Matrix	Basis
HS24051959-17	05/28/24 16:50	05/30/24 09:35	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 20:16	VOA9_468713	U060628.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 20:16	VOA9_468713	U060628.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 20:16	VOA9_468713	U060628.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 20:16	VOA9_468713	U060628.D
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 20:16	VOA9_468713	U060628.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 20:16	VOA9_468713	U060628.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 20:16	VOA9_468713	U060628.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 20:16	VOA9_468713	U060628.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 20:16	VOA9_468713	U060628.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 20:16	VOA9_468713	U060628.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 20:16	VOA9_468713	U060628.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 20:16	VOA9_468713	U060628.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 20:16	VOA9_468713	U060628.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 20:16	VOA9_468713	U060628.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 20:16	VOA9_468713	U060628.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 20:16	VOA9_468713	U060628.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 20:16	VOA9_468713	U060628.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 20:16	VOA9_468713	U060628.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 20:16	VOA9_468713	U060628.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 20:16	VOA9_468713	U060628.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 20:16	VOA9_468713	U060628.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	06/06/24 20:16	VOA9_468713	U060628.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 20:16	VOA9_468713	U060628.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	06/06/24 20:16	VOA9_468713	U060628.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 20:16	VOA9_468713	U060628.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 20:16	VOA9_468713	U060628.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	06/06/24 20:16	VOA9_468713	U060628.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	06/06/24 20:16	VOA9_468713	U060628.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 20:16	VOA9_468713	U060628.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 20:16	VOA9_468713	U060628.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 20:16	VOA9_468713	U060628.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 20:16	VOA9_468713	U060628.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 20:16	VOA9_468713	U060628.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051959

Volatiles by EPA Volatiles Organics by Method 8260C

35AWW16_052824	Collected	Received	Matrix	Basis
HS24051959-17	05/28/24 16:50	05/30/24 09:35	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 20:16	VOA9_468713	U060628.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	06/06/24 20:16	VOA9_468713	U060628.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 20:16	VOA9_468713	U060628.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 20:16	VOA9_468713	U060628.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 20:16	VOA9_468713	U060628.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 20:16	VOA9_468713	U060628.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 20:16	VOA9_468713	U060628.D
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 20:16	VOA9_468713	U060628.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 20:16	VOA9_468713	U060628.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 20:16	VOA9_468713	U060628.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 20:16	VOA9_468713	U060628.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 20:16	VOA9_468713	U060628.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 20:16	VOA9_468713	U060628.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	06/06/24 20:16	VOA9_468713	U060628.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 20:16	VOA9_468713	U060628.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	06/06/24 20:16	VOA9_468713	U060628.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	06/06/24 20:16	VOA9_468713	U060628.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 20:16	VOA9_468713	U060628.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 20:16	VOA9_468713	U060628.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 20:16	VOA9_468713	U060628.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 20:16	VOA9_468713	U060628.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 20:16	VOA9_468713	U060628.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 20:16	VOA9_468713	U060628.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 20:16	VOA9_468713	U060628.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 20:16	VOA9_468713	U060628.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 20:16	VOA9_468713	U060628.D
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 20:16	VOA9_468713	U060628.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 20:16	VOA9_468713	U060628.D
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 20:16	VOA9_468713	U060628.D
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 20:16	VOA9_468713	U060628.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 20:16	VOA9_468713	U060628.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder **HS24051959**

Volatiles by EPA Volatiles Organics by Method 8260C

Trip Blank

	Collected	Received	Matrix	Basis
HS24051959-18	05/29/24 00:00	05/30/24 09:35	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 14:49	VOA9_468713	U060613.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 14:49	VOA9_468713	U060613.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 14:49	VOA9_468713	U060613.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 14:49	VOA9_468713	U060613.D
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 14:49	VOA9_468713	U060613.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 14:49	VOA9_468713	U060613.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 14:49	VOA9_468713	U060613.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 14:49	VOA9_468713	U060613.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 14:49	VOA9_468713	U060613.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 14:49	VOA9_468713	U060613.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 14:49	VOA9_468713	U060613.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 14:49	VOA9_468713	U060613.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 14:49	VOA9_468713	U060613.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 14:49	VOA9_468713	U060613.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 14:49	VOA9_468713	U060613.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 14:49	VOA9_468713	U060613.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 14:49	VOA9_468713	U060613.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 14:49	VOA9_468713	U060613.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 14:49	VOA9_468713	U060613.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 14:49	VOA9_468713	U060613.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 14:49	VOA9_468713	U060613.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	06/06/24 14:49	VOA9_468713	U060613.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 14:49	VOA9_468713	U060613.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	06/06/24 14:49	VOA9_468713	U060613.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 14:49	VOA9_468713	U060613.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 14:49	VOA9_468713	U060613.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	06/06/24 14:49	VOA9_468713	U060613.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	06/06/24 14:49	VOA9_468713	U060613.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 14:49	VOA9_468713	U060613.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 14:49	VOA9_468713	U060613.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 14:49	VOA9_468713	U060613.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 14:49	VOA9_468713	U060613.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 14:49	VOA9_468713	U060613.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder **HS24051959**

Volatiles by EPA Volatiles Organics by Method 8260C

Trip Blank

	Collected	Received	Matrix	Basis
HS24051959-18	05/29/24 00:00	05/30/24 09:35	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 14:49	VOA9_468713	U060613.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	06/06/24 14:49	VOA9_468713	U060613.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	06/06/24 14:49	VOA9_468713	U060613.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 14:49	VOA9_468713	U060613.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 14:49	VOA9_468713	U060613.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 14:49	VOA9_468713	U060613.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 14:49	VOA9_468713	U060613.D
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 14:49	VOA9_468713	U060613.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 14:49	VOA9_468713	U060613.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 14:49	VOA9_468713	U060613.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 14:49	VOA9_468713	U060613.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 14:49	VOA9_468713	U060613.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 14:49	VOA9_468713	U060613.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	06/06/24 14:49	VOA9_468713	U060613.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 14:49	VOA9_468713	U060613.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	06/06/24 14:49	VOA9_468713	U060613.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	06/06/24 14:49	VOA9_468713	U060613.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 14:49	VOA9_468713	U060613.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	06/06/24 14:49	VOA9_468713	U060613.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 14:49	VOA9_468713	U060613.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 14:49	VOA9_468713	U060613.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 14:49	VOA9_468713	U060613.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 14:49	VOA9_468713	U060613.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 14:49	VOA9_468713	U060613.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 14:49	VOA9_468713	U060613.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 14:49	VOA9_468713	U060613.D
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 14:49	VOA9_468713	U060613.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 14:49	VOA9_468713	U060613.D
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 14:49	VOA9_468713	U060613.D
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	06/06/24 14:49	VOA9_468713	U060613.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	06/06/24 14:49	VOA9_468713	U060613.D

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Form 2

System Monitoring Compound Recovery

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24051959

Client

Bhate Environmental Associates, Inc.

Project

LHAAP-58

07/03/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051959

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA7-469280

35AWW09_052924

Matrix	Analysis Date	Conc Units	Dilution
Water	06/12/24 20:29	%REC	1

Lab Sample ID HS24051959-05

Instrument ID VOA7

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	P061226.D	56	50	113		81-118
4-Bromofluorobenzene	P061226.D	52	50	105		85-114
Dibromofluoromethane	P061226.D	58	50	117		80-119
Toluene-d8	P061226.D	55	50	110		89-112

35AWW09_052924_a

Matrix	Analysis Date	Conc Units	Dilution
Water	06/12/24 20:52	%REC	1

Lab Sample ID HS24051959-06

Instrument ID VOA7

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	P061227.D	57	50	114		81-118
4-Bromofluorobenzene	P061227.D	54	50	109		85-114
Dibromofluoromethane	P061227.D	58	50	116		80-119
Toluene-d8	P061227.D	55	50	110		89-112

BatchQC

Matrix	Analysis Date	Conc Units	Dilution
Aqueous	06/12/24 19:20	%REC	100

Lab Sample ID HS24060214-10MS

Instrument ID VOA7

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	P061223.D	5847	5000	117		81-118
4-Bromofluorobenzene	P061223.D	5687	5000	114		85-114
Dibromofluoromethane	P061223.D	5798	5000	116		80-119
Toluene-d8	P061223.D	5825	5000	116		89-112

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051959

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA7-469280

BatchQC

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24060214-10MSD	Aqueous	06/12/24 19:43	%REC	100
Instrument ID	VOA7				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	P061224.D	5995	5000	120		81-118
4-Bromofluorobenzene	P061224.D	5797	5000	116		85-114
Dibromofluoromethane	P061224.D	6077	5000	122		80-119
Toluene-d8	P061224.D	5995	5000	120		89-112

VBLKW-240612

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VBLKW-240612	Aqueous	06/12/24 17:26	%REC	1
Instrument ID	VOA7				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	P061218.D	55.8	50	112		81-118
4-Bromofluorobenzene	P061218.D	48.58	50	97.2		85-114
Dibromofluoromethane	P061218.D	56.06	50	112		80-119
Toluene-d8	P061218.D	53.79	50	108		89-112

VLCSW-240612

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VLCSW-240612	Aqueous	06/12/24 16:40	%REC	1
Instrument ID	VOA7				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	P061216.D	51.13	50	102		81-118
4-Bromofluorobenzene	P061216.D	50.7	50	101		85-114
Dibromofluoromethane	P061216.D	49.54	50	99.1		80-119
Toluene-d8	P061216.D	52.27	50	105		89-112

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051959

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA7-469280

VLSDW-240612

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VLSDW-240612	Aqueous	06/12/24 17:03	%REC	1
Instrument ID	VOA7				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	P061217.D	51.22	50	102		81-118
4-Bromofluorobenzene	P061217.D	51.55	50	103		85-114
Dibromofluoromethane	P061217.D	49.24	50	98.5		80-119
Toluene-d8	P061217.D	52.57	50	105		89-112

VSTD050

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VSTD050	Aqueous	06/12/24 16:17	%REC	1
Instrument ID	VOA7				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	P061215.D	48.45	50	96.9		80-120
4-Bromofluorobenzene	P061215.D	50.72	50	101		80-120
Dibromofluoromethane	P061215.D	49.61	50	99.2		80-120
Toluene-d8	P061215.D	51.11	50	102		80-120

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051959

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-468713

35AWW15_052924

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24051959-01	Water	06/06/24 15:11	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U060614.D	56	50	111		81-118
4-Bromofluorobenzene	U060614.D	52	50	104		85-114
Dibromofluoromethane	U060614.D	52	50	104		80-119
Toluene-d8	U060614.D	54	50	108		89-112

35AWW26_052924

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24051959-02	Water	06/06/24 15:32	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U060615.D	56	50	111		81-118
4-Bromofluorobenzene	U060615.D	51	50	103		85-114
Dibromofluoromethane	U060615.D	53	50	106		80-119
Toluene-d8	U060615.D	54	50	108		89-112

35AWW05_052924

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24051959-03	Water	06/06/24 15:54	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U060616.D	55	50	111		81-118
4-Bromofluorobenzene	U060616.D	52	50	103		85-114
Dibromofluoromethane	U060616.D	52	50	103		80-119
Toluene-d8	U060616.D	54	50	109		89-112

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051959

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-468713

35AWW24_052924

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24051959-04	Water	06/06/24 16:15	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U060617.D	56	50	113		81-118
4-Bromofluorobenzene	U060617.D	52	50	104		85-114
Dibromofluoromethane	U060617.D	53	50	106		80-119
Toluene-d8	U060617.D	54	50	109		89-112

35AWW09_052924

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24051959-05	Water	06/06/24 16:39	%REC	5
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U060618.D	270	250	108		81-118
4-Bromofluorobenzene	U060618.D	240	250	98.0		85-114
Dibromofluoromethane	U060618.D	250	250	101		80-119
Toluene-d8	U060618.D	260	250	103		89-112

35AWW09_052924_a

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24051959-06	Water	06/06/24 17:03	%REC	5
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U060619.D	270	250	107		81-118
4-Bromofluorobenzene	U060619.D	240	250	97.2		85-114
Dibromofluoromethane	U060619.D	250	250	100		80-119
Toluene-d8	U060619.D	260	250	104		89-112

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051959

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-468713

35AWW21_052924

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24051959-07	Water	06/06/24 12:37	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U060607.D	56	50	111		81-118
4-Bromofluorobenzene	U060607.D	53	50	105		85-114
Dibromofluoromethane	U060607.D	52	50	104		80-119
Toluene-d8	U060607.D	54	50	109		89-112

35AWW21_052924

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24051959-07MS	Aqueous	06/06/24 12:59	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U060608.D	53.03	50	106		81-118
4-Bromofluorobenzene	U060608.D	55.38	50	111		85-114
Dibromofluoromethane	U060608.D	51.79	50	104		80-119
Toluene-d8	U060608.D	54.39	50	109		89-112

35AWW21_052924

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24051959-07MSD	Aqueous	06/06/24 13:20	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U060609.D	52.56	50	105		81-118
4-Bromofluorobenzene	U060609.D	56.46	50	113		85-114
Dibromofluoromethane	U060609.D	51.79	50	104		80-119
Toluene-d8	U060609.D	54.73	50	109		89-112

Form 2 - System Monitoring Compound Recovery

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Project LHAAP-58

Workorder HS24051959

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-468713

35AWW22_052924

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24051959-08	Water	06/06/24 17:24	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U060620.D	56	50	112		81-118
4-Bromofluorobenzene	U060620.D	51	50	102		85-114
Dibromofluoromethane	U060620.D	52	50	104		80-119
Toluene-d8	U060620.D	54	50	107		89-112

35AWW12_052924

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24051959-09	Water	06/06/24 17:46	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U060621.D	56	50	113		81-118
4-Bromofluorobenzene	U060621.D	52	50	104		85-114
Dibromofluoromethane	U060621.D	53	50	107		80-119
Toluene-d8	U060621.D	54	50	108		89-112

03WW01_052824

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24051959-10	Water	06/06/24 18:07	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U060622.D	57	50	114		81-118
4-Bromofluorobenzene	U060622.D	53	50	106		85-114
Dibromofluoromethane	U060622.D	53	50	107		80-119
Toluene-d8	U060622.D	55	50	110		89-112

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051959

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-468713

35AWW08_052824

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24051959-11	Water	06/06/24 18:29	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U060623.D	56	50	113		81-118
4-Bromofluorobenzene	U060623.D	51	50	103		85-114
Dibromofluoromethane	U060623.D	53	50	106		80-119
Toluene-d8	U060623.D	54	50	108		89-112

35AWW01_052824

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24051959-12	Water	06/06/24 18:50	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U060624.D	56	50	112		81-118
4-Bromofluorobenzene	U060624.D	51	50	103		85-114
Dibromofluoromethane	U060624.D	53	50	106		80-119
Toluene-d8	U060624.D	55	50	109		89-112

35AWW13_052824

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24051959-13	Water	06/06/24 19:12	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U060625.D	56	50	112		81-118
4-Bromofluorobenzene	U060625.D	51	50	103		85-114
Dibromofluoromethane	U060625.D	52	50	105		80-119
Toluene-d8	U060625.D	54	50	107		89-112

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051959

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-468713

LHSMW06_052824

Matrix	Analysis Date	Conc Units	Dilution
Water	06/06/24 19:33	%REC	1

Lab Sample ID HS24051959-15

Instrument ID VOA9

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U060626.D	56	50	112		81-118
4-Bromofluorobenzene	U060626.D	52	50	103		85-114
Dibromofluoromethane	U060626.D	52	50	104		80-119
Toluene-d8	U060626.D	54	50	109		89-112

LHSMW06_052824_a

Matrix	Analysis Date	Conc Units	Dilution
Water	06/06/24 19:54	%REC	1

Lab Sample ID HS24051959-16

Instrument ID VOA9

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U060627.D	55	50	110		81-118
4-Bromofluorobenzene	U060627.D	51	50	102		85-114
Dibromofluoromethane	U060627.D	52	50	104		80-119
Toluene-d8	U060627.D	53	50	106		89-112

35AWW16_052824

Matrix	Analysis Date	Conc Units	Dilution
Water	06/06/24 20:16	%REC	1

Lab Sample ID HS24051959-17

Instrument ID VOA9

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U060628.D	56	50	113		81-118
4-Bromofluorobenzene	U060628.D	52	50	104		85-114
Dibromofluoromethane	U060628.D	53	50	106		80-119
Toluene-d8	U060628.D	55	50	110		89-112

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051959

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-468713

Trip Blank

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24051959-18	Water	06/06/24 14:49	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U060613.D	54	50	108		81-118
4-Bromofluorobenzene	U060613.D	51	50	103		85-114
Dibromofluoromethane	U060613.D	50	50	101		80-119
Toluene-d8	U060613.D	54	50	108		89-112

VBLKW-240606

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VBLKW-240606	Aqueous	06/06/24 12:16	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U060606.D	53.89	50	108		81-118
4-Bromofluorobenzene	U060606.D	52.12	50	104		85-114
Dibromofluoromethane	U060606.D	50.98	50	102		80-119
Toluene-d8	U060606.D	54.25	50	108		89-112

VLCSDW-240606

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VLCSDW-240606	Aqueous	06/06/24 11:33	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U060604.D	51.3	50	103		81-118
4-Bromofluorobenzene	U060604.D	55.46	50	111		85-114
Dibromofluoromethane	U060604.D	50.86	50	102		80-119
Toluene-d8	U060604.D	54.49	50	109		89-112

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051959

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-468713

VLCSW-240606

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VLCSW-240606	Aqueous	06/06/24 11:12	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U060603.D	52.45	50	105		81-118
4-Bromofluorobenzene	U060603.D	55.8	50	112		85-114
Dibromofluoromethane	U060603.D	52.92	50	106		80-119
Toluene-d8	U060603.D	54.56	50	109		89-112

VSTD050

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VSTD050	Aqueous	06/06/24 10:50	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U060602.D	51.86	50	104		80-120
4-Bromofluorobenzene	U060602.D	57.19	50	114		80-120
Dibromofluoromethane	U060602.D	52	50	104		80-120
Toluene-d8	U060602.D	55.38	50	111		80-120

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051959

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-468791

35AWW10_052824

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24051959-14	Water	06/07/24 07:55	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	UV60627.D	56	50	113		81-118
4-Bromofluorobenzene	UV60627.D	52	50	104		85-114
Dibromofluoromethane	UV60627.D	52	50	104		80-119
Toluene-d8	UV60627.D	54	50	108		89-112

35AWW10_052824

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24051959-14MS	Aqueous	06/07/24 08:38	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	UV60629.D	54.16	50	108		81-118
4-Bromofluorobenzene	UV60629.D	56.43	50	113		85-114
Dibromofluoromethane	UV60629.D	53.55	50	107		80-119
Toluene-d8	UV60629.D	55.83	50	112		89-112

35AWW10_052824

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24051959-14MSD	Aqueous	06/07/24 09:00	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	UV60630.D	52.96	50	106		81-118
4-Bromofluorobenzene	UV60630.D	56.29	50	113		85-114
Dibromofluoromethane	UV60630.D	51.85	50	104		80-119
Toluene-d8	UV60630.D	55.63	50	111		89-112

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051959

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-468791

VBLKW-240606

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VBLKW-240606	Aqueous	06/06/24 23:29	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	UV60606.D	54.21	50	108		81-118
4-Bromofluorobenzene	UV60606.D	52.95	50	106		85-114
Dibromofluoromethane	UV60606.D	51.03	50	102		80-119
Toluene-d8	UV60606.D	54.48	50	109		89-112

VLCSW-240606

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VLCSW-240606	Aqueous	06/06/24 22:25	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	UV60603.D	53.04	50	106		81-118
4-Bromofluorobenzene	UV60603.D	56.1	50	112		85-114
Dibromofluoromethane	UV60603.D	52.79	50	106		80-119
Toluene-d8	UV60603.D	55.35	50	111		89-112

VSTD050

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VSTD050	Aqueous	06/06/24 21:42	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	UV60602.D	54.12	50	108		80-120
4-Bromofluorobenzene	UV60602.D	57.8	50	116		80-120
Dibromofluoromethane	UV60602.D	53.06	50	106		80-120
Toluene-d8	UV60602.D	56.22	50	112		80-120

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder **HS24051959**

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-468948

35AWW09_052924

Lab Sample ID	Instrument ID	Matrix	Analysis Date	Conc Units	Dilution
HS24051959-05	VOA9	Water	06/09/24 15:28	%REC	1

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	V060822.D	57	50	114		81-118
4-Bromofluorobenzene	V060822.D	57	50	113		85-114
Dibromofluoromethane	V060822.D	54	50	108		80-119
Toluene-d8	V060822.D	56	50	111		89-112

35AWW09_052924_a

Lab Sample ID	Instrument ID	Matrix	Analysis Date	Conc Units	Dilution
HS24051959-06	VOA9	Water	06/09/24 15:49	%REC	1

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	V060823.D	57	50	113		81-118
4-Bromofluorobenzene	V060823.D	55	50	110		85-114
Dibromofluoromethane	V060823.D	55	50	110		80-119
Toluene-d8	V060823.D	56	50	111		89-112

BatchQC

Lab Sample ID	Instrument ID	Matrix	Analysis Date	Conc Units	Dilution
HS24060349-12MS	VOA9	Aqueous	06/09/24 09:59	%REC	1

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	V060808.D	54.35	50	109		81-118
4-Bromofluorobenzene	V060808.D	58.39	50	117		85-114
Dibromofluoromethane	V060808.D	54.1	50	108		80-119
Toluene-d8	V060808.D	59	50	118		89-112

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051959

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-468948

BatchQC

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24060349-12MSD	Aqueous	06/09/24 10:21	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	V060809.D	53.76	50	108		81-118
4-Bromofluorobenzene	V060809.D	59.72	50	119		85-114
Dibromofluoromethane	V060809.D	54.29	50	109		80-119
Toluene-d8	V060809.D	58.81	50	118		89-112

VBLKW-240608

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VBLKW-240608	Aqueous	06/09/24 09:16	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	V060806.D	55.55	50	111		81-118
4-Bromofluorobenzene	V060806.D	55.66	50	111		85-114
Dibromofluoromethane	V060806.D	53.73	50	107		80-119
Toluene-d8	V060806.D	55.58	50	111		89-112

VLCSDW-240608

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VLCSDW-240608	Aqueous	06/09/24 08:33	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	V060804.D	54.31	50	109		81-118
4-Bromofluorobenzene	V060804.D	55.21	50	110		85-114
Dibromofluoromethane	V060804.D	54.83	50	110		80-119
Toluene-d8	V060804.D	55.52	50	111		89-112

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051959

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-468948

VLCSW-240608

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VLCSW-240608	Aqueous	06/09/24 08:11	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	V060803.D	54.97	50	110		81-118
4-Bromofluorobenzene	V060803.D	55.12	50	110		85-114
Dibromofluoromethane	V060803.D	55.72	50	111		80-119
Toluene-d8	V060803.D	55.94	50	112		89-112

VSTD050

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VSTD050	Aqueous	06/09/24 07:28	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	V060802.D	54.37	50	109		80-120
4-Bromofluorobenzene	V060802.D	55.79	50	112		80-120
Dibromofluoromethane	V060802.D	55.19	50	110		80-120
Toluene-d8	V060802.D	58.7	50	117		80-120

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051959

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-469054

35AWW10_052824

Matrix	Analysis Date	Conc Units	Dilution
Water	06/10/24 13:02	%REC	1

Lab Sample ID HS24051959-14

Instrument ID VOA9

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	C061010.D	57	50	113		81-118
4-Bromofluorobenzene	C061010.D	56	50	112		85-114
Dibromofluoromethane	C061010.D	54	50	107		80-119
Toluene-d8	C061010.D	57	50	114		89-112

35AWW10_052824

Matrix	Analysis Date	Conc Units	Dilution
Aqueous	06/10/24 13:48	%REC	1

Lab Sample ID HS24051959-14MS

Instrument ID VOA9

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	C061012.D	56.74	50	113		81-118
4-Bromofluorobenzene	C061012.D	59.32	50	119		85-114
Dibromofluoromethane	C061012.D	56.51	50	113		80-119
Toluene-d8	C061012.D	58.75	50	117		89-112

35AWW10_052824

Matrix	Analysis Date	Conc Units	Dilution
Aqueous	06/10/24 14:09	%REC	1

Lab Sample ID HS24051959-14MSD

Instrument ID VOA9

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	C061013.D	56.09	50	112		81-118
4-Bromofluorobenzene	C061013.D	58.4	50	117		85-114
Dibromofluoromethane	C061013.D	55.52	50	111		80-119
Toluene-d8	C061013.D	57.83	50	116		89-112

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051959

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-469054

VBLKW-240610

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VBLKW-240610	Aqueous	06/10/24 11:13	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	C061006.D	58.25	50	117		81-118
4-Bromofluorobenzene	C061006.D	56.67	50	113		85-114
Dibromofluoromethane	C061006.D	55.34	50	111		80-119
Toluene-d8	C061006.D	55.94	50	112		89-112

VLCSDW-240610

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VLCSDW-240610	Aqueous	06/10/24 10:30	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	C061004.D	55.32	50	111		81-118
4-Bromofluorobenzene	C061004.D	55.86	50	112		85-114
Dibromofluoromethane	C061004.D	54.96	50	110		80-119
Toluene-d8	C061004.D	55.96	50	112		89-112

VLCSW-240610

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VLCSW-240610	Aqueous	06/10/24 10:09	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	C061003.D	56.15	50	112		81-118
4-Bromofluorobenzene	C061003.D	55.67	50	111		85-114
Dibromofluoromethane	C061003.D	56.68	50	113		80-119
Toluene-d8	C061003.D	55.13	50	110		89-112

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051959

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-469054

VSTD050

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VSTD050	Aqueous	06/10/24 09:47	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	C061002.D	54.97	50	110		80-120
4-Bromofluorobenzene	C061002.D	55.36	50	111		80-120
Dibromofluoromethane	C061002.D	56.47	50	113		80-120
Toluene-d8	C061002.D	56	50	112		80-120

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Form 3A

Matrix Spike/Spike Duplicate Recovery

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24051959

Client

Bhate Environmental Associates, Inc.

Project

LHAAP-58

07/03/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051959

SAMPLENUM HS24051959-07MS

Volatiles by EPA Volatiles Organics by Method 8260C

35AWW21_052924 (HS24051959-07)				HS24051959-07MS				HS24051959-07MSD						
Spike Matrix Aqueous	Result Units ug/L			Run Date 06/06/24				Run Date 06/06/24						
Instrument ID VOA9				Run Time 12:59				Run Time 13:20						
				Data File U060608.D				Data File U060609.D						
Analyte	%R Limits	DF	Sample Result	MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
1,1,1,2-Tetrachloroethane	78-124	1	0	15.2569	20	76		14.6200	20	73		20	4.26	
1,1,1-Trichloroethane	74-131	1	0	16.4684	20	82		15.7676	20	79		20	4.35	
1,1,2,2-Tetrachloroethane	71-121	1	0	15.7188	20	79		16.0657	20	80		20	2.18	
1,1,2-Trichloroethane	80-119	1	0	15.9111	20	80		15.9773	20	80		20	0.415	
1,1-Dichloroethane	77-125	1	4.004	20.6793	20	83		20.2662	20	81		20	2.02	
1,1-Dichloroethene	71-131	1	3.558	21.2307	20	88		20.2209	20	83		20	4.87	
1,1-Dichloropropene	78-125	1	0	15.9564	20	80		15.6339	20	78		20	2.04	
1,2,3-Trichlorobenzene	69-129	1	0	16.2261	20	81		16.5133	20	83		20	1.75	
1,2,3-Trichloropropane	73-122	1	0	15.7362	20	79		15.8703	20	79		20	0.849	
1,2,4-Trichlorobenzene	69-130	1	0	16.6428	20	83		16.7444	20	84		20	0.609	
1,2,4-Trimethylbenzene	76-124	1	0	17.7909	20	89		17.8423	20	89		20	0.288	
1,2-Dibromo-3-chloropropane	62-128	1	0	15.4795	20	77		15.3560	20	77		20	0.801	
1,2-Dibromoethane	77-121	1	0	14.9165	20	75		14.9794	20	75		20	0.421	
1,2-Dichlorobenzene	80-119	1	0	17.3919	20	87		17.5436	20	88		20	0.869	
1,2-Dichloroethane	73-128	1	0	15.7172	20	79		15.9431	20	80		20	1.43	
1,2-Dichloropropane	78-122	1	0	15.4091	20	77		15.0417	20	75		20	2.41	
1,3,5-Trimethylbenzene	75-124	1	0	18.6943	20	94		18.7681	20	94		20	0.394	
1,3-Dichlorobenzene	80-119	1	0	16.3046	20	82		16.4521	20	82		20	0.901	
1,3-Dichloropropane	80-119	1	0	15.4848	20	77		15.6704	20	78		20	1.19	
1,4-Dichlorobenzene	79-118	1	0	17.6858	20	88		17.3136	20	87		20	2.13	
2,2-Dichloropropane	60-139	1	0	15.6965	20	78		15.1514	20	76		20	3.53	
2-Butanone	56-143	1	0	31.8760	40	80		31.8575	40	80		20	0.0583	
2-Chlorotoluene	79-122	1	0	17.2831	20	86		17.1146	20	86		20	0.98	
2-Hexanone	57-139	1	0	35.7003	40	89		35.7616	40	89		20	0.172	
4-Chlorotoluene	78-122	1	0	17.4984	20	88		17.0694	20	85		20	2.48	
4-Isopropyltoluene	77-127	1	0	19.4828	20	97		19.2046	20	96		20	1.44	
4-Methyl-2-pentanone	67-130	1	0	31.0919	40	78		31.2719	40	78		20	0.577	
Acetone	39-160	1	0	30.5187	40	76		28.7751	40	72		20	5.88	
Benzene	79-120	1	0	16.1093	20	80		15.8210	20	79		20	1.81	
Bromobenzene	80-120	1	0	16.8483	20	84		16.4559	20	82		20	2.36	
Bromochloromethane	78-123	1	0	15.8229	20	79		15.2565	20	76		20	3.65	
Bromodichloromethane	79-125	1	0	13.8339	20	69		13.5519	20	68		20	2.06	

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051959

SAMPLENUM HS24051959-07MS

Volatiles by EPA Volatiles Organics by Method 8260C

35AWW21_052924 (HS24051959-07)				HS24051959-07MS				HS24051959-07MSD						
Spike Matrix Aqueous	Result Units ug/L			Run Date 06/06/24				Run Date 06/06/24						
Instrument ID VOA9				Run Time 12:59				Run Time 13:20						
				Data File U060608.D				Data File U060609.D						
Analyte	%R Limits	DF	Sample Result	MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
Bromoform	66-130	1	0	13.6739	20	68		13.8314	20	69		20	1.15	
Bromomethane	53-141	1	0	16.8313	20	84		16.3949	20	82		20	2.63	
Carbon disulfide	64-133	1	0	30.4715	40	76		29.4531	40	74		20	3.4	
Carbon tetrachloride	72-136	1	0	15.8425	20	79		15.6055	20	78		20	1.51	
Chlorobenzene	82-118	1	0	16.3900	20	82		16.0626	20	80		20	2.02	
Chloroethane	60-138	1	0	16.4455	20	82		16.3488	20	82		20	0.59	
Chloroform	79-124	1	0	15.1346	20	76		14.6163	20	73		20	3.48	
Chloromethane	50-139	1	0	17.1406	20	86		16.7408	20	84		20	2.36	
cis-1,2-Dichloroethene	78-123	1	1.081	16.7527	20	78		16.5138	20	77		20	1.44	
cis-1,3-Dichloropropene	75-124	1	0	13.7751	20	69		13.6039	20	68		20	1.25	
Dibromochloromethane	74-126	1	0	14.0738	20	70		14.0241	20	70		20	0.354	
Dibromomethane	79-123	1	0	15.2597	20	76		15.0715	20	75		20	1.24	
Dichlorodifluoromethane	32-152	1	0	19.5908	20	98		18.5892	20	93		20	5.25	
Ethylbenzene	79-121	1	0	16.7896	20	84		16.7294	20	84		20	0.359	
Hexachlorobutadiene	66-134	1	0	17.6225	20	88		17.1921	20	86		20	2.47	
Isopropylbenzene	72-131	1	0	18.8000	20	94		18.8618	20	94		20	0.328	
m,p-Xylene	80-121	1	0	34.5820	40	86		34.5049	40	86		20	0.223	
Methylene chloride	74-124	1	0	15.7227	20	79		14.9978	20	75		20	4.72	
Naphthalene	61-128	1	0	14.6552	20	73		15.3285	20	77		20	4.49	
n-Butylbenzene	75-128	1	0	18.2773	20	91		18.1795	20	91		20	0.536	
n-Propylbenzene	76-126	1	0	18.9588	20	95		18.2473	20	91		20	3.82	
o-Xylene	78-122	1	0	17.3425	20	87		17.0413	20	85		20	1.75	
sec-Butylbenzene	77-126	1	0	20.0288	20	100		19.6138	20	98		20	2.09	
Styrene	78-123	1	0	16.5851	20	83		16.6579	20	83		20	0.438	
tert-Butylbenzene	78-124	1	0	19.2740	20	96		18.8809	20	94		20	2.06	
Tetrachloroethene	74-129	1	0	18.2186	20	91		17.8529	20	89		20	2.03	
Toluene	80-121	1	0	16.0682	20	80		15.9105	20	80		20	0.986	
trans-1,2-Dichloroethene	75-124	1	0	16.3041	20	82		16.0816	20	80		20	1.37	
trans-1,3-Dichloropropene	73-127	1	0	13.4617	20	67		13.6046	20	68		20	1.06	
Trichloroethene	79-123	1	0.7715	16.4806	20	78		16.2873	20	78		20	1.18	
Trichlorofluoromethane	65-141	1	0	17.6683	20	88		17.0700	20	85		20	3.44	
Vinyl chloride	58-137	1	0	17.7372	20	89		16.9067	20	84		20	4.79	

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051959

Volatiles by EPA Volatiles Organics by Method 8260C

SAMPLENUM HS24051959-07MS

35AWW21_052924 (HS24051959-07)		HS24051959-07MS	HS24051959-07MSD	
Spike Matrix Aqueous	Result Units ug/L	Run Date 06/06/24	Run Date 06/06/24	
Instrument ID VOA9		Run Time 12:59	Run Time 13:20	
		Data File U060608.D	Data File U060609.D	

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits OL - Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051959

SAMPLENUM HS24051959-14MS

Volatiles by EPA Volatiles Organics by Method 8260C

35AWW10_052824 (HS24051959-14)				HS24051959-14MS				HS24051959-14MSD						
Spike Matrix Aqueous	Result Units ug/L			Run Date 06/07/24				Run Date 06/07/24						
Instrument ID VOA9				Run Time 08:38				Run Time 09:00						
				Data File UV60629.D				Data File UV60630.D						
Analyte	%R Limits	DF	Sample Result	MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
Naphthalene	61-128	1	0	13.4898	20	67		14.0755	20	70		20	4.25	

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits OL - Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder **HS24051959**

SAMPLENUM HS24051959-14MS

Volatiles by EPA Volatiles Organics by Method 8260C

35AWW10_052824 (HS24051959-14)			HS24051959-14MS		HS24051959-14MSD		
Spike Matrix Aqueous	Result Units ug/L		Run Date 06/10/24		Run Date 06/10/24		
Instrument ID VOA9			Run Time 13:48		Run Time 14:09		
			Data File C061012.D		Data File C061013.D		

Analyte	%R Limits	DF	Sample Result	MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
1,1,1,2-Tetrachloroethane	78-124	1	0	15.6815	20	78		15.2131	20	76		20	3.03	
1,1,1-Trichloroethane	74-131	1	0	16.0854	20	80		15.3216	20	77		20	4.86	
1,1,2,2-Tetrachloroethane	71-121	1	0	15.7582	20	79		15.7120	20	79		20	0.294	
1,1,2-Trichloroethane	80-119	1	0	16.3991	20	82		15.9486	20	80		20	2.79	
1,1-Dichloroethane	77-125	1	0	16.5960	20	83		15.9763	20	80		20	3.8	
1,1-Dichloroethene	71-131	1	0	17.3509	20	87		16.9632	20	85		20	2.26	
1,1-Dichloropropene	78-125	1	0	16.4581	20	82		16.0204	20	80		20	2.7	
1,2,3-Trichlorobenzene	69-129	1	0	14.2740	20	71		14.8220	20	74		20	3.77	
1,2,3-Trichloropropane	73-122	1	0	14.6590	20	73		14.2438	20	71		20	2.87	
1,2,4-Trichlorobenzene	69-130	1	0	14.3198	20	72		14.3139	20	72		20	0.0412	
1,2,4-Trimethylbenzene	76-124	1	0	14.0944	20	70		14.0704	20	70		20	0.17	
1,2-Dibromo-3-chloropropane	62-128	1	0	14.3894	20	72		14.4017	20	72		20	0.0855	
1,2-Dibromoethane	77-121	1	0	15.5786	20	78		15.3948	20	77		20	1.19	
1,2-Dichlorobenzene	80-119	1	0	15.8258	20	79		15.8733	20	79		20	0.299	
1,2-Dichloroethane	73-128	1	0	15.8736	20	79		16.1850	20	81		20	1.94	
1,2-Dichloropropane	78-122	1	0	15.7702	20	79		15.6894	20	78		20	0.514	
1,3,5-Trimethylbenzene	75-124	1	0	15.7785	20	79		15.5957	20	78		20	1.17	
1,3-Dichlorobenzene	80-119	1	0	16.0450	20	80		15.6921	20	78		20	2.22	
1,3-Dichloropropane	80-119	1	0	15.8140	20	79		15.3862	20	77		20	2.74	
1,4-Dichlorobenzene	79-118	1	0	16.2044	20	81		15.9084	20	80		20	1.84	
2,2-Dichloropropane	60-139	1	0	15.7715	20	79		15.2120	20	76		20	3.61	
2-Butanone	56-143	1	0	30.0167	40	75		29.8172	40	74		20	0.667	
2-Chlorotoluene	79-122	1	0	16.3907	20	82		16.1977	20	81		20	1.18	
2-Hexanone	57-139	1	0	33.4054	40	84		33.0045	40	82		20	1.21	
4-Chlorotoluene	78-122	1	0	16.0803	20	80		15.6150	20	78		20	2.94	
4-Isopropyltoluene	77-127	1	0	15.7774	20	79		15.6580	20	78		20	0.76	
4-Methyl-2-pentanone	67-130	1	0	31.6241	40	79		30.5936	40	76		20	3.31	
Acetone	39-160	1	0	25.3563	40	63		22.7126	40	57		20	11	
Benzene	79-120	1	0	16.1708	20	81		16.0425	20	80		20	0.796	
Bromobenzene	80-120	1	0	16.1679	20	81		15.8412	20	79		20	2.04	
Bromochloromethane	78-123	1	0	15.7303	20	79		16.2637	20	81		20	3.33	
Bromodichloromethane	79-125	1	0	14.3104	20	72		14.1462	20	71		20	1.15	

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051959

SAMPLENUM HS24051959-14MS

Volatiles by EPA Volatiles Organics by Method 8260C

35AWW10_052824 (HS24051959-14)				HS24051959-14MS				HS24051959-14MSD						
Spike Matrix Aqueous	Result Units ug/L			Run Date 06/10/24				Run Date 06/10/24						
Instrument ID VOA9				Run Time 13:48				Run Time 14:09						
				Data File C061012.D				Data File C061013.D						
Analyte	%R Limits	DF	Sample Result	MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
Bromoform	66-130	1	0	13.8227	20	69		13.8547	20	69		20	0.231	
Bromomethane	53-141	1	0	16.8692	20	84		16.7976	20	84		20	0.425	
Carbon disulfide	64-133	1	0	33.1062	40	83		31.8173	40	80		20	3.97	
Carbon tetrachloride	72-136	1	0	15.6964	20	78		15.7146	20	79		20	0.116	
Chlorobenzene	82-118	1	0	16.4637	20	82		16.1541	20	81		20	1.9	
Chloroethane	60-138	1	0	16.9615	20	85		16.3093	20	82		20	3.92	
Chloroform	79-124	1	0	16.5115	20	83		16.2290	20	81		20	1.73	
Chloromethane	50-139	1	0	17.5071	20	88		16.1882	20	81		20	7.83	
cis-1,2-Dichloroethene	78-123	1	0	16.0389	20	80		15.8751	20	79		20	1.03	
cis-1,3-Dichloropropene	75-124	1	0	14.3754	20	72		14.4333	20	72		20	0.402	
Dibromochloromethane	74-126	1	0	14.7911	20	74		14.3980	20	72		20	2.69	
Dibromomethane	79-123	1	0	15.8584	20	79		15.6405	20	78		20	1.38	
Dichlorodifluoromethane	32-152	1	0	17.8047	20	89		17.2027	20	86		20	3.44	
Ethylbenzene	79-121	1	0	15.7301	20	79		14.9472	20	75		20	5.1	
Hexachlorobutadiene	66-134	1	0	15.1839	20	76		14.4478	20	72		20	4.97	
Isopropylbenzene	72-131	1	0	16.3676	20	82		15.8912	20	80		20	2.95	
m,p-Xylene	80-121	1	0	31.8184	40	80		31.3258	40	78		20	1.56	
Methylene chloride	74-124	1	0	15.9752	20	80		15.7839	20	79		20	1.2	
n-Butylbenzene	75-128	1	0	15.6621	20	78		15.3588	20	77		20	1.96	
n-Propylbenzene	76-126	1	0	16.3150	20	82		15.9939	20	80		20	1.99	
o-Xylene	78-122	1	0	15.5523	20	78		15.2518	20	76		20	1.95	
sec-Butylbenzene	77-126	1	0	16.3153	20	82		15.9229	20	80		20	2.43	
Styrene	78-123	1	0	18.8414	20	94		16.4854	20	82		20	13.3	
tert-Butylbenzene	78-124	1	0	16.2837	20	81		16.0663	20	80		20	1.34	
Tetrachloroethene	74-129	1	0	16.9347	20	85		16.5882	20	83		20	2.07	
Toluene	80-121	1	0	16.5517	20	83		16.0287	20	80		20	3.21	
trans-1,2-Dichloroethene	75-124	1	0	17.0102	20	85		16.5477	20	83		20	2.76	
trans-1,3-Dichloropropene	73-127	1	0	13.9341	20	70		14.2195	20	71		20	2.03	
Trichloroethene	79-123	1	0	16.6343	20	83		16.1455	20	81		20	2.98	
Trichlorofluoromethane	65-141	1	0	17.8710	20	89		17.3715	20	87		20	2.83	
Vinyl chloride	58-137	1	0	16.9231	20	85		16.5939	20	83		20	1.96	

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits OL - Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051959

Volatiles by EPA Volatiles Organics by Method 8260C

SAMPLENUM HS24051959-14MS

35AWW10_052824 (HS24051959-14)		HS24051959-14MS	HS24051959-14MSD	
Spike Matrix Aqueous	Result Units ug/L	Run Date 06/10/24	Run Date 06/10/24	
Instrument ID VOA9		Run Time 13:48	Run Time 14:09	
		Data File C061012.D	Data File C061013.D	

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051959

SAMPLENUM HS24060214-10MS

Volatiles by EPA Volatiles Organics by Method 8260C

BatchQC (HS24060214-10)				HS24060214-10MS				HS24060214-10MSD						
Spike Matrix Aqueous	Result Units ug/L			Run Date 06/12/24				Run Date 06/12/24						
Instrument ID VOA7				Run Time 19:20				Run Time 19:43						
				Data File P061223.D				Data File P061224.D						
Analyte	%R Limits	DF	Sample Result	MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
2,2-Dichloropropane	60-139	100	0	1653.31	2000	83		2196.35	2000	110		20	28.2	

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits OL - Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder **HS24051959**

SAMPLENUM HS24060349-12MS

Volatiles by EPA Volatiles Organics by Method 8260C

BatchQC (HS24060349-12)			HS24060349-12MS		HS24060349-12MSD	
Spike Matrix Aqueous	Result Units ug/L		Run Date 06/09/24		Run Date 06/09/24	
Instrument ID VOA9			Run Time 09:59		Run Time 10:21	
			Data File V060808.D		Data File V060809.D	

Analyte	%R Limits	DF	Sample Result	MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
1,1,1,2-Tetrachloroethane	78-124	1	0	17.8370	20	89		17.2455	20	86		20	3.37	
1,1,1-Trichloroethane	74-131	1	0	18.5312	20	93		17.5746	20	88		20	5.3	
1,1,2,2-Tetrachloroethane	71-121	1	0	19.1228	20	96		18.1433	20	91		20	5.26	
1,1,2-Trichloroethane	80-119	1	0	18.6461	20	93		18.2746	20	91		20	2.01	
1,1-Dichloroethane	77-125	1	0	18.7748	20	94		17.8610	20	89		20	4.99	
1,1-Dichloroethene	71-131	1	0	19.4577	20	97		18.6501	20	93		20	4.24	
1,1-Dichloropropene	78-125	1	0	19.1059	20	96		18.2374	20	91		20	4.65	
1,2,3-Trichlorobenzene	69-129	1	0	17.1046	20	86		16.5859	20	83		20	3.08	
1,2,3-Trichloropropane	73-122	1	0	17.4695	20	87		16.7960	20	84		20	3.93	
1,2,4-Trichlorobenzene	69-130	1	0	16.6898	20	83		16.1440	20	81		20	3.32	
1,2,4-Trimethylbenzene	76-124	1	0	17.6258	20	88		17.0659	20	85		20	3.23	
1,2-Dibromo-3-chloropropane	62-128	1	0	18.5408	20	93		17.7763	20	89		20	4.21	
1,2-Dibromoethane	77-121	1	0	17.8208	20	89		17.8018	20	89		20	0.107	
1,2-Dichlorobenzene	80-119	1	0	18.5042	20	92		18.0355	20	90		20	2.57	
1,2-Dichloroethane	73-128	1	0	18.3511	20	92		17.4950	20	88		20	4.78	
1,2-Dichloropropane	78-122	1	0	17.8678	20	89		17.3984	20	87		20	2.66	
1,3,5-Trimethylbenzene	75-124	1	0	19.3930	20	97		18.7055	20	94		20	3.61	
1,3-Dichlorobenzene	80-119	1	0	18.3999	20	92		17.5436	20	88		20	4.77	
1,3-Dichloropropane	80-119	1	0	18.3974	20	92		18.1334	20	91		20	1.45	
1,4-Dichlorobenzene	79-118	1	0	17.9630	20	90		17.6842	20	88		20	1.56	
2-Butanone	56-143	1	0	36.1570	40	90		34.5682	40	86		20	4.49	
2-Chlorotoluene	79-122	1	0	19.4249	20	97		18.6264	20	93		20	4.2	
2-Hexanone	57-139	1	0	40.9752	40	102		38.6962	40	97		20	5.72	
4-Chlorotoluene	78-122	1	0	18.3854	20	92		17.8261	20	89		20	3.09	
4-Isopropyltoluene	77-127	1	0	18.3223	20	92		17.6554	20	88		20	3.71	
4-Methyl-2-pentanone	67-130	1	0	36.5248	40	91		36.0628	40	90		20	1.27	
Acetone	39-160	1	0	30.5120	40	76		28.8564	40	72		20	5.58	
Benzene	79-120	1	0	19.0918	20	96		18.2594	20	91		20	4.46	
Bromobenzene	80-120	1	0	18.8528	20	94		18.1211	20	91		20	3.96	
Bromochloromethane	78-123	1	0	18.6441	20	93		17.7170	20	89		20	5.1	
Bromodichloromethane	79-125	1	0	16.4113	20	82		15.7845	20	79		20	3.89	
Bromoform	66-130	1	0	16.2518	20	81		15.8768	20	79		20	2.33	

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder **HS24051959**

SAMPLENUM HS24060349-12MS

Volatiles by EPA Volatiles Organics by Method 8260C

BatchQC (HS24060349-12)				HS24060349-12MS				HS24060349-12MSD						
Spike Matrix Aqueous	Result Units ug/L			Run Date 06/09/24				Run Date 06/09/24						
Instrument ID VOA9				Run Time 09:59				Run Time 10:21						
				Data File V060808.D				Data File V060809.D						
Analyte	%R Limits	DF	Sample Result	MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
Bromomethane	53-141	1	0	19.9631	20	100		18.8017	20	94		20	5.99	
Carbon disulfide	64-133	1	0	36.1185	40	90		34.8489	40	87		20	3.58	
Carbon tetrachloride	72-136	1	0	18.0794	20	90		17.4938	20	88		20	3.29	
Chlorobenzene	82-118	1	0	18.7371	20	94		18.3035	20	92		20	2.34	
Chloroethane	60-138	1	0	18.9488	20	95		17.9135	20	90		20	5.62	
Chloroform	79-124	1	0	18.6201	20	93		17.9053	20	90		20	3.91	
Chloromethane	50-139	1	0	18.6660	20	93		17.7249	20	89		20	5.17	
cis-1,2-Dichloroethene	78-123	1	0	18.8780	20	94		17.9231	20	90		20	5.19	
cis-1,3-Dichloropropene	75-124	1	0	16.1435	20	81		15.1481	20	76		20	6.36	
Dibromochloromethane	74-126	1	0	16.7622	20	84		16.5523	20	83		20	1.26	
Dibromomethane	79-123	1	0	18.2429	20	91		17.4445	20	87		20	4.47	
Dichlorodifluoromethane	32-152	1	0	18.2451	20	91		17.8058	20	89		20	2.44	
Ethylbenzene	79-121	1	0	18.0554	20	90		17.7659	20	89		20	1.62	
Hexachlorobutadiene	66-134	1	0	15.8241	20	79		15.5562	20	78		20	1.71	
Isopropylbenzene	72-131	1	0	18.8488	20	94		18.6020	20	93		20	1.32	
m,p-Xylene	80-121	1	0	36.6904	40	92		35.9586	40	90		20	2.01	
Methylene chloride	74-124	1	0	18.4861	20	92		17.5553	20	88		20	5.17	
Naphthalene	61-128	1	0	17.7523	20	89		17.7343	20	89		20	0.101	
n-Butylbenzene	75-128	1	0	17.1106	20	86		16.5650	20	83		20	3.24	
n-Propylbenzene	76-126	1	0	19.0620	20	95		18.0867	20	90		20	5.25	
o-Xylene	78-122	1	0	18.1342	20	91		17.7969	20	89		20	1.88	
sec-Butylbenzene	77-126	1	0	19.0590	20	95		18.0829	20	90		20	5.26	
Styrene	78-123	1	0	17.7202	20	89		17.3013	20	86		20	2.39	
tert-Butylbenzene	78-124	1	0	19.6283	20	98		18.8587	20	94		20	4	
Toluene	80-121	1	0	19.2056	20	96		18.7178	20	94		20	2.57	
trans-1,2-Dichloroethene	75-124	1	0	18.9960	20	95		17.9971	20	90		20	5.4	
trans-1,3-Dichloropropene	73-127	1	0	15.9579	20	80		15.3255	20	77		20	4.04	
Trichlorofluoromethane	65-141	1	0	19.3440	20	97		18.3092	20	92		20	5.5	
Vinyl chloride	58-137	1	0	18.7282	20	94		17.8536	20	89		20	4.78	

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits OL - Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

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Form 3B

Laboratory Control Sample Recovery

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24051959

Client

Bhate Environmental Associates, Inc.

Project

LHAAP-58

07/03/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051959

Volatiles by EPA Volatiles Organics by Method 8260C

SAMPLENUM VLCSW-240606

VOA9_468713			VLCSW-240606			VLCSDW-240606					
Spike Matrix Aqueous	Result Units ug/L		Run Date 06/06/24 Run Time 11:12			Run Date 06/06/24 Run Time 11:33					
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q	LCSD Result	%R	Q	RPD Limit	RPD	Q
1,1,1,2-Tetrachloroethane	78-124	20	17.83	89		16.64	83		20	6.92	
1,1,1-Trichloroethane	74-131	20	18.79	94		17.43	87		20	7.49	
1,1,2,2-Tetrachloroethane	71-121	20	18.7	94		17.82	89		20	4.83	
1,1,2-Trichloroethane	80-119	20	19.26	96		18.14	91		20	6.03	
1,1-Dichloroethane	77-125	20	19.38	97		17.59	88		20	9.69	
1,1-Dichloroethene	71-131	20	19.5	98		17.45	87		20	11.1	
1,1-Dichloropropene	78-125	20	18.88	94		16.83	84		20	11.5	
1,2,3-Trichlorobenzene	69-129	20	19.33	97		17.41	87		20	10.4	
1,2,3-Trichloropropane	73-122	20	18.11	91		17.27	86		20	4.79	
1,2,4-Trichlorobenzene	69-130	20	19.15	96		17.36	87		20	9.8	
1,2,4-Trimethylbenzene	76-124	20	20.56	103		18.48	92		20	10.7	
1,2-Dibromo-3-chloropropane	62-128	20	16.66	83		15.58	78		20	6.67	
1,2-Dibromoethane	77-121	20	18.15	91		17.47	87		20	3.85	
1,2-Dichlorobenzene	80-119	20	19.56	98		18.4	92		20	6.1	
1,2-Dichloroethane	73-128	20	18.95	95		17.88	89		20	5.77	
1,2-Dichloropropane	78-122	20	18.58	93		17.08	85		20	8.45	
1,3,5-Trimethylbenzene	75-124	20	21.04	105		19.24	96		20	8.96	
1,3-Dichlorobenzene	80-119	20	18.73	94		17.49	87		20	6.88	
1,3-Dichloropropane	80-119	20	18.25	91		17.85	89		20	2.21	
1,4-Dichlorobenzene	79-118	20	19.84	99		18.51	92		20	6.93	
2,2-Dichloropropane	60-139	20	18.94	95		16.7	84		20	12.6	
2-Butanone	56-143	40	38.35	96		35.86	90		20	6.71	
2-Chlorotoluene	79-122	20	19.28	96		18.02	90		20	6.77	
2-Hexanone	57-139	40	37.64	94		36.25	91		20	3.77	
4-Chlorotoluene	78-122	20	19.38	97		18.06	90		20	7.05	
4-Isopropyltoluene	77-127	20	21.07	105		19.21	96		20	9.22	
4-Methyl-2-pentanone	67-130	40	33.7	84		33.2	83		20	1.49	
Acetone	39-160	40	37.74	94		38.98	97		20	3.21	
Benzene	79-120	20	19.32	97		17.78	89		20	8.32	
Bromobenzene	80-120	20	19.64	98		18.27	91		20	7.25	
Bromochloromethane	78-123	20	19.46	97		17.93	90		20	8.19	
Bromodichloromethane	79-125	20	16.6	83		16.17	81		20	2.6	
Bromoform	66-130	20	15.87	79		15.12	76		20	4.85	
Bromomethane	53-141	20	21.49	107		19.64	98		20	9.02	
Carbon disulfide	64-133	40	37.28	93		33.72	84		20	10	

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051959

Volatiles by EPA Volatiles Organics by Method 8260C

SAMPLENUM VLCSW-240606

VOA9_468713			VLCSW-240606			VLCSDW-240606					
Spike Matrix Aqueous	Result Units ug/L		Run Date 06/06/24 Run Time 11:12			Run Date 06/06/24 Run Time 11:33					
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q	LCSD Result	%R	Q	RPD Limit	RPD	Q
Carbon tetrachloride	72-136	20	17.97	90		16.63	83		20	7.75	
Chlorobenzene	82-118	20	19.44	97		18.43	92		20	5.34	
Chloroethane	60-138	20	20.21	101		17.67	88		20	13.4	
Chloroform	79-124	20	18.05	90		16.55	83		20	8.67	
Chloromethane	50-139	20	20.08	100		18.06	90		20	10.6	
cis-1,2-Dichloroethene	78-123	20	19.11	96		18.14	91		20	5.18	
cis-1,3-Dichloropropene	75-124	20	17.03	85		16.3	82		20	4.39	
Dibromochloromethane	74-126	20	16.85	84		16.31	82		20	3.27	
Dibromomethane	79-123	20	18.81	94		17.69	88		20	6.13	
Dichlorodifluoromethane	32-152	20	21.56	108		19.63	98		20	9.37	
Ethylbenzene	79-121	20	18.74	94		17.82	89		20	5	
Hexachlorobutadiene	66-134	20	20.47	102		18.23	91		20	11.6	
Isopropylbenzene	72-131	20	20.35	102		19.31	97		20	5.24	
m,p-Xylene	80-121	40	38.75	97		36.71	92		20	5.4	
Methylene chloride	74-124	20	19.32	97		18.04	90		20	6.89	
Naphthalene	61-128	20	17.62	88		16.46	82		20	6.84	
n-Butylbenzene	75-128	20	20.03	100		18.54	93		20	7.74	
n-Propylbenzene	76-126	20	20.04	100		18.42	92		20	8.44	
o-Xylene	78-122	20	19.12	96		18.16	91		20	5.11	
sec-Butylbenzene	77-126	20	21.13	106		19.49	97		20	8.1	
Styrene	78-123	20	19.42	97		18.58	93		20	4.47	
tert-Butylbenzene	78-124	20	20.65	103		18.64	93		20	10.2	
Tetrachloroethene	74-129	20	19.31	96		17.81	89		20	8.06	
Toluene	80-121	20	18.75	94		17.42	87		20	7.36	
trans-1,2-Dichloroethene	75-124	20	19.65	98		18.04	90		20	8.55	
trans-1,3-Dichloropropene	73-127	20	16.34	82		15.53	78		20	5.07	
Trichloroethene	79-123	20	18.39	92		17.12	86		20	7.11	
Trichlorofluoromethane	65-141	20	20.19	101		18.1	90		20	10.9	
Vinyl chloride	58-137	20	19.96	100		17.36	87		20	13.9	

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051959

Volatiles by EPA Volatiles Organics by Method 8260C

SAMPLENUM VLCSW-240606

VOA9_468791			VLCSW-240606			VLCSDW-240606					
Spike Matrix Aqueous	Result Units ug/L		Run Date 06/06/24 Run Time 22:25			Run Date 06/06/24 Run Time 11:33					
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q	LCSD Result	%R	Q	RPD Limit	RPD	Q
Naphthalene	61-128	20	16	80		16.46	82		20	6.84	

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051959

Volatiles by EPA Volatiles Organics by Method 8260C

SAMPLENUM VLCSW-240608

VOA9_468948			VLCSW-240608			VLCSDW-240608					
Spike Matrix Aqueous	Result Units ug/L		Run Date 06/09/24 Run Time 08:11			Run Date 06/09/24 Run Time 08:33					
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q	LCSD Result	%R	Q	RPD Limit	RPD	Q
1,1,1,2-Tetrachloroethane	78-124	20	18.88	94		18.21	91		20	3.6	
1,1,1-Trichloroethane	74-131	20	18.07	90		17.47	87		20	3.36	
1,1,2,2-Tetrachloroethane	71-121	20	19.9	100		18.63	93		20	6.61	
1,1,2-Trichloroethane	80-119	20	19.77	99		18.94	95		20	4.32	
1,1-Dichloroethane	77-125	20	18.96	95		18.2	91		20	4.12	
1,1-Dichloroethene	71-131	20	18.95	95		18.26	91		20	3.72	
1,1-Dichloropropene	78-125	20	18.72	94		17.74	89		20	5.39	
1,2,3-Trichlorobenzene	69-129	20	21.99	110		20.59	103		20	6.55	
1,2,3-Trichloropropane	73-122	20	17.48	87		18.45	92		20	5.4	
1,2,4-Trichlorobenzene	69-130	20	21.22	106		19.5	98		20	8.43	
1,2,4-Trimethylbenzene	76-124	20	19.45	97		18.09	90		20	7.22	
1,2-Dibromo-3-chloropropane	62-128	20	21.23	106		20.21	101		20	4.93	
1,2-Dibromoethane	77-121	20	19.61	98		18.73	94		20	4.6	
1,2-Dichlorobenzene	80-119	20	20.02	100		18.78	94		20	6.41	
1,2-Dichloroethane	73-128	20	19.21	96		18.69	94		20	2.71	
1,2-Dichloropropane	78-122	20	19	95		18.46	92		20	2.91	
1,3,5-Trimethylbenzene	75-124	20	20.37	102		18.94	95		20	7.25	
1,3-Dichlorobenzene	80-119	20	19.79	99		18.37	92		20	7.46	
1,3-Dichloropropane	80-119	20	19.67	98		18.8	94		20	4.5	
1,4-Dichlorobenzene	79-118	20	19.43	97		18.5	92		20	4.92	
2-Butanone	56-143	40	42.97	107		41.54	104		20	3.38	
2-Chlorotoluene	79-122	20	19.5	98		18.53	93		20	5.08	
2-Hexanone	57-139	40	40.17	100		38.53	96		20	4.16	
4-Chlorotoluene	78-122	20	19.24	96		18.2	91		20	5.52	
4-Isopropyltoluene	77-127	20	20.11	101		18.67	93		20	7.4	
4-Methyl-2-pentanone	67-130	40	39.66	99		37.99	95		20	4.31	
Acetone	39-160	40	41.71	104		40.61	102		20	2.69	
Benzene	79-120	20	19.17	96		18.44	92		20	3.88	
Bromobenzene	80-120	20	19.74	99		18.6	93		20	5.94	
Bromochloromethane	78-123	20	19.36	97		19.42	97		20	0.326	
Bromodichloromethane	79-125	20	17.13	86		16.55	83		20	3.46	
Bromoform	66-130	20	17.76	89		16.87	84		20	5.14	
Bromomethane	53-141	20	19.47	97		19.69	98		20	1.13	
Carbon disulfide	64-133	40	36.22	90		34.26	86		20	5.54	
Carbon tetrachloride	72-136	20	17.56	88		16.73	84		20	4.89	

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051959

Volatiles by EPA Volatiles Organics by Method 8260C

SAMPLENUM VLCSW-240608

VOA9_468948			VLCSW-240608			VLCSDW-240608					
Spike Matrix Aqueous	Result Units ug/L		Run Date 06/09/24 Run Time 08:11			Run Date 06/09/24 Run Time 08:33					
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q	LCSD Result	%R	Q	RPD Limit	RPD	Q
Chlorobenzene	82-118	20	19.65	98		18.39	92		20	6.65	
Chloroethane	60-138	20	18.91	94		17.88	89		20	5.57	
Chloroform	79-124	20	19.01	95		18.29	92		20	3.82	
Chloromethane	50-139	20	18.47	92		17.89	90		20	3.2	
cis-1,2-Dichloroethene	78-123	20	18.87	94		18.67	93		20	1.06	
cis-1,3-Dichloropropene	75-124	20	17.23	86		16.92	85		20	1.8	
Dibromochloromethane	74-126	20	17.97	90		17.37	87		20	3.39	
Dibromomethane	79-123	20	18.9	94		18.68	93		20	1.13	
Dichlorodifluoromethane	32-152	20	18.21	91		17.35	87		20	4.85	
Ethylbenzene	79-121	20	18.4	92		17.29	86		20	6.23	
Hexachlorobutadiene	66-134	20	20.73	104		19.25	96		20	7.36	
Isopropylbenzene	72-131	20	19.43	97		18.36	92		20	5.67	
m,p-Xylene	80-121	40	37.68	94		35.61	89		20	5.65	
Methylene chloride	74-124	20	19.41	97		18.87	94		20	2.84	
Naphthalene	61-128	20	21.72	109		19.84	99		20	9.08	
n-Butylbenzene	75-128	20	19.65	98		18	90		20	8.8	
n-Propylbenzene	76-126	20	19.46	97		18.15	91		20	6.94	
o-Xylene	78-122	20	18.88	94		17.85	89		20	5.57	
sec-Butylbenzene	77-126	20	20.27	101		18.97	95		20	6.59	
Styrene	78-123	20	19.14	96		17.95	90		20	6.38	
tert-Butylbenzene	78-124	20	20.62	103		19.07	95		20	7.78	
Toluene	80-121	20	19.58	98		18.59	93		20	5.18	
trans-1,2-Dichloroethene	75-124	20	18.83	94		18.05	90		20	4.2	
trans-1,3-Dichloropropene	73-127	20	17.2	86		16.76	84		20	2.57	
Trichlorofluoromethane	65-141	20	18.4	92		17.63	88		20	4.3	
Vinyl chloride	58-137	20	18.27	91		17.49	88		20	4.38	

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051959

Volatiles by EPA Volatiles Organics by Method 8260C

SAMPLENUM VLCSW-240610

VOA9_469054			VLCSW-240610			VLCSDW-240610					
Spike Matrix Aqueous	Result Units ug/L		Run Date 06/10/24 Run Time 10:09			Run Date 06/10/24 Run Time 10:30					
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q	LCSD Result	%R	Q	RPD Limit	RPD	Q
1,1,1,2-Tetrachloroethane	78-124	20	19.55	98		19.13	96		20	2.14	
1,1,1-Trichloroethane	74-131	20	19.63	98		19.4	97		20	1.17	
1,1,2,2-Tetrachloroethane	71-121	20	20.24	101		19.99	100		20	1.24	
1,1,2-Trichloroethane	80-119	20	20.3	101		20.32	102		20	0.113	
1,1-Dichloroethane	77-125	20	20.56	103		19.79	99		20	3.8	
1,1-Dichloroethene	71-131	20	20.49	102		20.09	100		20	1.96	
1,1-Dichloropropene	78-125	20	20.52	103		19.47	97		20	5.23	
1,2,3-Trichlorobenzene	69-129	20	20.23	101		19.49	97		20	3.75	
1,2,3-Trichloropropane	73-122	20	19.19	96		18.96	95		20	1.25	
1,2,4-Trichlorobenzene	69-130	20	19.66	98		18.97	95		20	3.59	
1,2,4-Trimethylbenzene	76-124	20	19.27	96		18.41	92		20	4.57	
1,2-Dibromo-3-chloropropane	62-128	20	20.08	100		19.54	98		20	2.71	
1,2-Dibromoethane	77-121	20	19.51	98		19.5	98		20	0.0652	
1,2-Dichlorobenzene	80-119	20	20.56	103		20	100		20	2.73	
1,2-Dichloroethane	73-128	20	20.45	102		19.79	99		20	3.29	
1,2-Dichloropropane	78-122	20	19.62	98		19.54	98		20	0.408	
1,3,5-Trimethylbenzene	75-124	20	20.21	101		19.81	99		20	2	
1,3-Dichlorobenzene	80-119	20	20.28	101		20.06	100		20	1.1	
1,3-Dichloropropane	80-119	20	19.69	98		19.85	99		20	0.833	
1,4-Dichlorobenzene	79-118	20	20.55	103		19.58	98		20	4.88	
2,2-Dichloropropane	60-139	20	20.34	102		19.28	96		20	5.36	
2-Butanone	56-143	40	41.36	103		42.28	106		20	2.19	
2-Chlorotoluene	79-122	20	20.72	104		19.77	99		20	4.7	
2-Hexanone	57-139	40	41.26	103		42.42	106		20	2.77	
4-Chlorotoluene	78-122	20	20.26	101		19.51	98		20	3.77	
4-Isopropyltoluene	77-127	20	20.08	100		19.36	97		20	3.64	
4-Methyl-2-pentanone	67-130	40	38.85	97		39.16	98		20	0.806	
Acetone	39-160	40	40.4	101		37.98	95		20	6.17	
Benzene	79-120	20	19.94	100		19.71	99		20	1.16	
Bromobenzene	80-120	20	20.21	101		19.69	98		20	2.61	
Bromochloromethane	78-123	20	20.45	102		19.69	98		20	3.75	
Bromodichloromethane	79-125	20	18.2	91		17.89	90		20	1.7	
Bromoform	66-130	20	17.42	87		17.63	88		20	1.19	
Bromomethane	53-141	20	21.23	106		20.25	101		20	4.73	
Carbon disulfide	64-133	40	40.8	102		38.91	97		20	4.75	

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051959

Volatiles by EPA Volatiles Organics by Method 8260C

SAMPLENUM VLCSW-240610

VOA9_469054			VLCSW-240610			VLCSDW-240610					
Spike Matrix Aqueous	Result Units ug/L		Run Date 06/10/24 Run Time 10:09			Run Date 06/10/24 Run Time 10:30					
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q	LCSD Result	%R	Q	RPD Limit	RPD	Q
Carbon tetrachloride	72-136	20	19.49	97		19	95		20	2.51	
Chlorobenzene	82-118	20	20.16	101		20.29	101		20	0.628	
Chloroethane	60-138	20	20.5	102		19.24	96		20	6.32	
Chloroform	79-124	20	20.67	103		19.86	99		20	4.01	
Chloromethane	50-139	20	20.33	102		19.18	96		20	5.81	
cis-1,2-Dichloroethene	78-123	20	19.97	100		19.24	96		20	3.71	
cis-1,3-Dichloropropene	75-124	20	18.8	94		18.29	91		20	2.74	
Dibromochloromethane	74-126	20	18.67	93		18.54	93		20	0.666	
Dibromomethane	79-123	20	19.85	99		19.65	98		20	1.02	
Dichlorodifluoromethane	32-152	20	20.46	102		19.6	98		20	4.29	
Ethylbenzene	79-121	20	18.91	95		18.65	93		20	1.38	
Hexachlorobutadiene	66-134	20	20.7	103		19.31	97		20	6.93	
Isopropylbenzene	72-131	20	19.94	100		19.6	98		20	1.68	
m,p-Xylene	80-121	40	38.9	97		38.15	95		20	1.93	
Methylene chloride	74-124	20	20.74	104		20.23	101		20	2.48	
n-Butylbenzene	75-128	20	20.07	100		19.29	96		20	3.96	
n-Propylbenzene	76-126	20	20.32	102		19.4	97		20	4.65	
o-Xylene	78-122	20	19.43	97		19.04	95		20	2	
sec-Butylbenzene	77-126	20	20.59	103		19.33	97		20	6.33	
Styrene	78-123	20	19.63	98		19.39	97		20	1.27	
tert-Butylbenzene	78-124	20	20.57	103		19.5	98		20	5.36	
Tetrachloroethene	74-129	20	20.48	102		20.16	101		20	1.54	
Toluene	80-121	20	20.32	102		19.75	99		20	2.86	
trans-1,2-Dichloroethene	75-124	20	20.5	103		20.2	101		20	1.49	
trans-1,3-Dichloropropene	73-127	20	18.22	91		18.4	92		20	0.97	
Trichloroethene	79-123	20	20.01	100		19.73	99		20	1.4	
Trichlorofluoromethane	65-141	20	20.76	104		20.3	102		20	2.23	
Vinyl chloride	58-137	20	20.53	103		19.74	99		20	3.93	

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051959

Volatiles by EPA Volatiles Organics by Method 8260C

SAMPLENUM VLCSW-240612

VOA7_469280			VLCSW-240612				
Spike Matrix Aqueous	Result Units ug/L		Run Date 06/12/24 Run Time 16:40				
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q		
2,2-Dichloropropane	60-139	20	18.8	94.0			

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Form 4

Method Blank Summary

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24051959

Client

Bhate Environmental Associates, Inc.

Project

LHAAP-58

07/03/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 4 - Method Blank Summary

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder **HS24051959**

Volatiles by EPA Volatiles Organics by Method 8260C

METHOD BLANK	Matrix	Analysis Date	Analysis Batch	Inst ID
VBLKW-240606	Aqueous	06/06/24 12:16	R468713	VOA9

Client Sample ID	Lab Sample ID	Type	Analysis Date	Analysis Batch	Inst ID	FileID
VLCSW-240606	VLCSW-240606	LCS	06/06/24 11:12	R468713	VOA9	U060603.D
VLCSDW-240606	VLCSDW-240606	LCSD	06/06/24 11:33	R468713	VOA9	U060604.D
35AWW21_052924	HS24051959-07	SAMP	06/06/24 12:37	R468713	VOA9	U060607.D
35AWW21_052924	HS24051959-07MS	MS	06/06/24 12:59	R468713	VOA9	U060608.D
35AWW21_052924	HS24051959-07MSD	MSD	06/06/24 13:20	R468713	VOA9	U060609.D
Trip Blank	HS24051959-18	SAMP	06/06/24 14:49	R468713	VOA9	U060613.D
35AWW15_052924	HS24051959-01	SAMP	06/06/24 15:11	R468713	VOA9	U060614.D
35AWW26_052924	HS24051959-02	SAMP	06/06/24 15:32	R468713	VOA9	U060615.D
35AWW05_052924	HS24051959-03	SAMP	06/06/24 15:54	R468713	VOA9	U060616.D
35AWW24_052924	HS24051959-04	SAMP	06/06/24 16:15	R468713	VOA9	U060617.D
35AWW09_052924	HS24051959-05	SAMP	06/06/24 16:39	R468713	VOA9	U060618.D
35AWW09_052924_a	HS24051959-06	SAMP	06/06/24 17:03	R468713	VOA9	U060619.D
35AWW22_052924	HS24051959-08	SAMP	06/06/24 17:24	R468713	VOA9	U060620.D
35AWW12_052924	HS24051959-09	SAMP	06/06/24 17:46	R468713	VOA9	U060621.D
03WW01_052824	HS24051959-10	SAMP	06/06/24 18:07	R468713	VOA9	U060622.D
35AWW08_052824	HS24051959-11	SAMP	06/06/24 18:29	R468713	VOA9	U060623.D
35AWW01_052824	HS24051959-12	SAMP	06/06/24 18:50	R468713	VOA9	U060624.D
35AWW13_052824	HS24051959-13	SAMP	06/06/24 19:12	R468713	VOA9	U060625.D
LHSMW06_052824	HS24051959-15	SAMP	06/06/24 19:33	R468713	VOA9	U060626.D
LHSMW06_052824_a	HS24051959-16	SAMP	06/06/24 19:54	R468713	VOA9	U060627.D
35AWW16_052824	HS24051959-17	SAMP	06/06/24 20:16	R468713	VOA9	U060628.D

Form 4 - Method Blank Summary

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051959

Volatiles by EPA Volatiles Organics by Method 8260C

METHOD BLANK	Matrix	Analysis Date	Analysis Batch	Inst ID
VBLKW-240606	Aqueous	06/06/24 23:29	R468791	VOA9

Client Sample ID	Lab Sample ID	Type	Analysis Date	Analysis Batch	Inst ID	FileID
VLCSW-240606	VLCSW-240606	LCS	06/06/24 22:25	R468791	VOA9	UV60603.D
35AWW10_052824	HS24051959-14	SAMP	06/07/24 07:55	R468791	VOA9	UV60627.D
35AWW10_052824	HS24051959-14MS	MS	06/07/24 08:38	R468791	VOA9	UV60629.D
35AWW10_052824	HS24051959-14MSD	MSD	06/07/24 09:00	R468791	VOA9	UV60630.D

Form 4 - Method Blank Summary

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051959

Volatiles by EPA Volatiles Organics by Method 8260C

METHOD BLANK	Matrix	Analysis Date	Analysis Batch	Inst ID
VBLKW-240608	Aqueous	06/09/24 09:16	R468948	VOA9

Client Sample ID	Lab Sample ID	Type	Analysis Date	Analysis Batch	Inst ID	FileID
VLCSW-240608	VLCSW-240608	LCS	06/09/24 08:11	R468948	VOA9	V060803.D
VLCSDW-240608	VLCSDW-240608	LCSD	06/09/24 08:33	R468948	VOA9	V060804.D
BatchQC	HS24060349-12MS	MS	06/09/24 09:59	R468948	VOA9	V060808.D
BatchQC	HS24060349-12MSD	MSD	06/09/24 10:21	R468948	VOA9	V060809.D
35AWW09_052924	HS24051959-05	SAMP	06/09/24 15:28	R468948	VOA9	V060822.D
35AWW09_052924_a	HS24051959-06	SAMP	06/09/24 15:49	R468948	VOA9	V060823.D

Form 4 - Method Blank Summary

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051959

Volatiles by EPA Volatiles Organics by Method 8260C

METHOD BLANK	Matrix	Analysis Date	Analysis Batch	Inst ID
VBLKW-240610	Aqueous	06/10/24 11:13	R469054	VOA9

Client Sample ID	Lab Sample ID	Type	Analysis Date	Analysis Batch	Inst ID	FileID
VLCSW-240610	VLCSW-240610	LCS	06/10/24 10:09	R469054	VOA9	C061003.D
VLCSDW-240610	VLCSDW-240610	LCSD	06/10/24 10:30	R469054	VOA9	C061004.D
35AWW10_052824	HS24051959-14	SAMP	06/10/24 13:02	R469054	VOA9	C061010.D
35AWW10_052824	HS24051959-14MS	MS	06/10/24 13:48	R469054	VOA9	C061012.D
35AWW10_052824	HS24051959-14MSD	MSD	06/10/24 14:09	R469054	VOA9	C061013.D

Form 4 - Method Blank Summary

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051959

Volatiles by EPA Volatiles Organics by Method 8260C

METHOD BLANK	Matrix	Analysis Date	Analysis Batch	Inst ID
VBLKW-240612	Aqueous	06/12/24 17:26	R469280	VOA7

Client Sample ID	Lab Sample ID	Type	Analysis Date	Analysis Batch	Inst ID	FileID
VLCSW-240612	VLCSW-240612	LCS	06/12/24 16:40	R469280	VOA7	P061216.D
VLSDW-240612	VLSDW-240612	LCSD	06/12/24 17:03	R469280	VOA7	P061217.D
BatchQC	HS24060214-10MS	MS	06/12/24 19:20	R469280	VOA7	P061223.D
BatchQC	HS24060214-10MSD	MSD	06/12/24 19:43	R469280	VOA7	P061224.D
35AWW09_052924	HS24051959-05	SAMP	06/12/24 20:29	R469280	VOA7	P061226.D
35AWW09_052924_a	HS24051959-06	SAMP	06/12/24 20:52	R469280	VOA7	P061227.D

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Form 5

Instrument Performance Check

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24051959

Client

Bhate Environmental Associates, Inc.

Project

LHAAP-58

07/03/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

01337707

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: HS220328V7

Lab File ID: P061202 BFB Injection Date: 06/12/24

Instrument ID: VOA7 BFB Injection Time: 1120

GC Column: DB624 ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.2
75	30.0 - 60.0% of mass 95	51.5
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	79.1
175	5.0 - 9.0% of mass 174	6.0 (7.6)1
176	95.0 - 101.0% of mass 174	76.4 (96.5)1
177	5.0 - 9.0% of mass 176	4.8 (6.3)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD00.5	VSTD00.5	P061203	06/12/24	1143
02	VSTD001	VSTD001	P061204	06/12/24	1205
03	VSTD002	VSTD002	P061205	06/12/24	1228
04	VSTD005	VSTD005	P061206	06/12/24	1251
05	VSTD010	VSTD010	P061207	06/12/24	1314
06	VSTD020	VSTD020	P061208	06/12/24	1337
07	VSTD050	VSTD050	P061209	06/12/24	1400
08	VSTD100	VSTD100	P061210	06/12/24	1423
09		VSTD200	P061211	06/12/24	1446
10					
11					
12					
13					
14					
15					
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18					
19					
20					
21					
22					

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

01337708

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: HS220328V7

Lab File ID: P061213 BFB Injection Date: 06/12/24

Instrument ID: VOA7 BFB Injection Time: 1531

GC Column: DB624 ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.0
75	30.0 - 60.0% of mass 95	46.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	5.5
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	81.6
175	5.0 - 9.0% of mass 174	6.5 (8.0)1
176	95.0 - 101.0% of mass 174	79.8 (97.8)1
177	5.0 - 9.0% of mass 176	5.1 (6.3)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	VSTD050	P061215	06/12/24	1617
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: V9

Lab File ID: W060501 BFB Injection Date: 06/05/24

Instrument ID: VOA9 BFB Injection Time: 1836

GC Column: DB624 ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
168	Base Peak, 100% relative abundance	100.0

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD00.25	VSTD00.25	W060502	06/05/24	1858
02	VSTD00.5	VSTD00.5	W060503	06/05/24	1920
03	VSTD001	VSTD001	W060504	06/05/24	1941
04	VSTD002	VSTD002	W060505	06/05/24	2003
05	VSTD005	VSTD005	W060506	06/05/24	2024
06	VSTD020	VSTD020	W060507	06/05/24	2046
07	VSTD050	VSTD050	W060508	06/05/24	2107
08	VSTD100	VSTD100	W060509	06/05/24	2129
09	VSTD150	VSTD150	W060510	06/05/24	2150
10	VSTD200	VSTD200	W060511	06/05/24	2212
11					
12					
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16					
17					
18					
19					
20					
21					
22					

FORM V VOA

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: V9

Lab File ID: W060513 BFB Injection Date: 06/05/24

Instrument ID: VOA9 BFB Injection Time: 2255

GC Column: DB624 ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.0
75	30.0 - 60.0% of mass 95	50.8
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	83.8
175	5.0 - 9.0% of mass 174	7.4 (8.8)1
176	95.0 - 101.0% of mass 174	80.6 (96.3)1
177	5.0 - 9.0% of mass 176	5.8 (7.2)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	VSTD050	W060514A	06/05/24	2338
02					
03					
04					
05					
06					
07					
08					
09					
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21					
22					

FORM V VOA

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: V9

Lab File ID: C060801 BFB Injection Date: 06/08/24

Instrument ID: VOA9 BFB Injection Time: 1533

GC Column: DB624 ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
168	Base Peak, 100% relative abundance	100.0

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD00.25	VSTD00.25	C060802	06/08/24	1554
02	VSTD00.5	VSTD00.5	C060803	06/08/24	1616
03	VSTD001	VSTD001	C060804	06/08/24	1637
04	VSTD002	VSTD002	C060805	06/08/24	1659
05	VSTD005	VSTD005	C060806	06/08/24	1720
06	VSTD020	VSTD020	C060807	06/08/24	1742
07	VSTD050	VSTD050	C060808	06/08/24	1803
08	VSTD100	VSTD100	C060809	06/08/24	1825
09	VSTD150	VSTD150	C060810	06/08/24	1846
10	VSTD200	VSTD200	C060811	06/08/24	1908
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: V9

Lab File ID: C060813 BFB Injection Date: 06/08/24

Instrument ID: VOA9 BFB Injection Time: 1951

GC Column: DB624 ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.2
75	30.0 - 60.0% of mass 95	50.3
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.4
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	85.6
175	5.0 - 9.0% of mass 174	7.6 (8.9)1
176	95.0 - 101.0% of mass 174	84.1 (98.2)1
177	5.0 - 9.0% of mass 176	5.8 (6.9)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	VSTD050	C060814	06/08/24	2012
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
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14					
15					
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22					

Form 5 - Instrument Performance Check

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder **HS24051959**

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA7-469280

Tune File P061213.D 06/12/24 6/12/2024

m / e	Ion Abundance Criterion	%RA
50	15.0 - 40.0% of mass 95	18 (18)
75	30.0 - 60.0% of mass 95	46.9 (46.9)
95	Base peak, 100% RA	100 (100)
96	5.0 - 9.0% of mass 95	5.5 (5.46)
173	Less than 2.0% of mass 174	0 (0) 1
174	greater than 50.0% of mass 95	81.6 (81.6) 1
175	5.0 - 9.0% of mass 174	6.5 (8.01) 1
176	> 95% but < 101% of mass 174	79.8 (97.8) 1
177	5.0 - 9.0% of mass 176	5.1 (6.33) 2

%RA - Percent Relative Abundance

This check applies to the following analyses

	Lab Samp ID	Type	Date Analyzed	Lab File ID	Sample ID
1	VSTD050	CCV	6/12/2024	P061215	VSTD050
2	VLCSW-	LCS	6/12/2024	P061216	VLCSW-240612
3	VLSDW-	LCSD	6/12/2024	P061217	VLSDW-240612
4	VBLKW-	MBLK	6/12/2024	P061218	VBLKW-240612
5	HS24060214-	MS	6/12/2024	P061223	ZZZZZZMS
6	HS24060214-	MSD	6/12/2024	P061224	ZZZZZZMSD
7	HS24051959-	SAMP	6/12/2024	P061226	35AWW09_052924
8	HS24051959-	SAMP	6/12/2024	P061227	35AWW09_052924_a
9	VSTD050	CCV_EN	6/13/2024	P061242	VSTD050

Form 5 - Instrument Performance Check

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder **HS24051959**

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-468713

Tune File U060601.D 06/06/24 6/6/2024

m / e	Ion Abundance Criterion	%RA
50	15.0 - 40.0% of mass 95	19.3 (19.3)
75	30.0 - 60.0% of mass 95	50.5 (50.5)
95	Base peak, 100% RA	100 (100)
96	5.0 - 9.0% of mass 95	6.8 (6.81)
173	Less than 2.0% of mass 174	0 (0) 1
174	greater than 50.0% of mass 95	96 (96) 1
175	5.0 - 9.0% of mass 174	7.7 (8.02) 1
176	> 95% but < 101% of mass 174	91.3 (95) 1
177	5.0 - 9.0% of mass 176	5.7 (6.2) 2

%RA - Percent Relative Abundance

This check applies to the following analyses

	Lab Samp ID	Type	Date Analyzed	Lab File ID	Sample ID
1	VSTD050	CCV	6/6/2024	U060602	VSTD050
2	VLCSW-	LCS	6/6/2024	U060603	VLCSW-240606
3	VLCSDW-	LCSD	6/6/2024	U060604	VLCSDW-240606
4	VBLKW-	MBLK	6/6/2024	U060606	VBLKW-240606
5	HS24051959-	SAMP	6/6/2024	U060607	35AWW21_052924
6	HS24051959-	MS	6/6/2024	U060608	HS24051959-07MS
7	HS24051959-	MSD	6/6/2024	U060609	HS24051959-07MSD
8	HS24051959-	SAMP	6/6/2024	U060613	Trip Blank
9	HS24051959-	SAMP	6/6/2024	U060614	35AWW15_052924
10	HS24051959-	SAMP	6/6/2024	U060615	35AWW26_052924
11	HS24051959-	SAMP	6/6/2024	U060616	35AWW05_052924
12	HS24051959-	SAMP	6/6/2024	U060617	35AWW24_052924
13	HS24051959-	SAMP	6/6/2024	U060618	35AWW09_052924
14	HS24051959-	SAMP	6/6/2024	U060619	35AWW09_052924_a
15	HS24051959-	SAMP	6/6/2024	U060620	35AWW22_052924
16	HS24051959-	SAMP	6/6/2024	U060621	35AWW12_052924
17	HS24051959-	SAMP	6/6/2024	U060622	03WW01_052824
18	HS24051959-	SAMP	6/6/2024	U060623	35AWW08_052824
19	HS24051959-	SAMP	6/6/2024	U060624	35AWW01_052824
20	HS24051959-	SAMP	6/6/2024	U060625	35AWW13_052824
21	HS24051959-	SAMP	6/6/2024	U060626	LHSMW06_052824
22	HS24051959-	SAMP	6/6/2024	U060627	LHSMW06_052824_a
23	HS24051959-	SAMP	6/6/2024	U060628	35AWW16_052824
24	VSTD050	CCV_EN	6/6/2024	U060629	VSTD050

Form 5 - Instrument Performance Check

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder **HS24051959**

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-468791

Tune File UV60601.D 06/06/24 6/6/2024

m / e	Ion Abundance Criterion	%RA
50	15.0 - 40.0% of mass 95	19.3 (19.3)
75	30.0 - 60.0% of mass 95	49.7 (49.7)
95	Base peak, 100% RA	100 (100)
96	5.0 - 9.0% of mass 95	6.5 (6.45)
173	Less than 2.0% of mass 174	0 (0) 1
174	greater than 50.0% of mass 95	87.1 (87.1) 1
175	5.0 - 9.0% of mass 174	7.4 (8.54) 1
176	> 95% but < 101% of mass 174	85.5 (98.2) 1
177	5.0 - 9.0% of mass 176	5.8 (6.76) 2

%RA - Percent Relative Abundance

This check applies to the following analyses

	Lab Samp ID	Type	Date Analyzed	Lab File ID	Sample ID
1	VSTD050	CCV	6/6/2024	UV60602	VSTD050
2	VLCSW-	LCS	6/6/2024	UV60603	VLCSW-240606
3	VBLKW-	MBLK	6/6/2024	UV60606	VBLKW-240606
4	HS24051959-	SAMP	6/7/2024	UV60627	35AWW10_052824
5	HS24051959-	MS	6/7/2024	UV60629	HS24051959-14MS
6	HS24051959-	MSD	6/7/2024	UV60630	HS24051959-14MSD
7	VSTD050	CCV_EN	6/7/2024	UV60640	VSTD050

Form 5 - Instrument Performance Check

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder **HS24051959**

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-468948

Tune File V060801.D 06/09/24 6/9/2024

m / e	Ion Abundance Criterion	%RA
50	15.0 - 40.0% of mass 95	18.8 (18.8)
75	30.0 - 60.0% of mass 95	50.4 (50.4)
95	Base peak, 100% RA	100 (100)
96	5.0 - 9.0% of mass 95	7.1 (7.12)
173	Less than 2.0% of mass 174	0 (0) 1
174	greater than 50.0% of mass 95	81.9 (81.9) 1
175	5.0 - 9.0% of mass 174	7.1 (8.61) 1
176	> 95% but < 101% of mass 174	80.3 (98.1) 1
177	5.0 - 9.0% of mass 176	5.9 (7.31) 2

%RA - Percent Relative Abundance

This check applies to the following analyses

	Lab Samp ID	Type	Date Analyzed	Lab File ID	Sample ID
1	VSTD050	CCV	6/9/2024	V060802	VSTD050
2	VLCSW-	LCS	6/9/2024	V060803	VLCSW-240608
3	VLCSDW-	LCSD	6/9/2024	V060804	VLCSDW-240608
4	VBLKW-	MBLK	6/9/2024	V060806	VBLKW-240608
5	HS24060349-	MS	6/9/2024	V060808	ZZZZZZMS
6	HS24060349-	MSD	6/9/2024	V060809	ZZZZZZMSD
7	HS24051959-	SAMP	6/9/2024	V060822	35AWW09_052924
8	HS24051959-	SAMP	6/9/2024	V060823	35AWW09_052924_a
9	VSTD050	CCV_EN	6/9/2024	V060829	VSTD050

Form 5 - Instrument Performance Check

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder **HS24051959**

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-469054

Tune File C061001.D 06/10/24 6/10/2024

m / e	Ion Abundance Criterion	%RA
50	15.0 - 40.0% of mass 95	21 (21)
75	30.0 - 60.0% of mass 95	52.2 (52.2)
95	Base peak, 100% RA	100 (100)
96	5.0 - 9.0% of mass 95	7.3 (7.31)
173	Less than 2.0% of mass 174	0 (0) 1
174	greater than 50.0% of mass 95	83.4 (83.4) 1
175	5.0 - 9.0% of mass 174	6.9 (8.31) 1
176	> 95% but < 101% of mass 174	79.3 (95.1) 1
177	5.0 - 9.0% of mass 176	6 (7.61) 2

%RA - Percent Relative Abundance

This check applies to the following analyses

	Lab Samp ID	Type	Date Analyzed	Lab File ID	Sample ID
1	VSTD050	CCV	6/10/2024	C061002	VSTD050
2	VLCSW-	LCS	6/10/2024	C061003	VLCSW-240610
3	VLCSDW-	LCSD	6/10/2024	C061004	VLCSDW-240610
4	VBLKW-	MBLK	6/10/2024	C061006	VBLKW-240610
5	HS24051959-	SAMP	6/10/2024	C061010	35AWW10_052824
6	HS24051959-	MS	6/10/2024	C061012	HS24051959-14MS
7	HS24051959-	MSD	6/10/2024	C061013	HS24051959-14MSD
8	VSTD050	CCV_EN	6/10/2024	C061041	VSTD050

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ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 12-JUN-2024 11:43
End Cal Date : 12-JUN-2024 14:46
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\8260W.m
Last Edit : 22-Jun-2024 12:55 r.patel

Calibration File Names:
Level 1: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061203.D
Level 2: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061204.D
Level 3: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061205.D
Level 4: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061206.D
Level 5: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061207.D
Level 6: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061208.D
Level 7: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061209.D
Level 8: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061210.D
Level 9: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061211.D

Compound	0.5000000 Level 1 / 50.0000 Level 7	1.0000 Level 2 / 100.0000 Level 8	2.0000 Level 3 / 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
157 2-Methylnaphthalene	184 / 64642	563 / 149837	1586 / 339740	3232	8422	20582	LINR	0.06051	0.78218		0.99849	
2 Dichlorodifluoromethane	1093 / 66335	1352 / 128579	1833 / 270113	5732	13733	26161	LINR	-0.00418	0.51249		0.99974	
182 Isobutylene	+++++ / 9733	+++++ / 18786	162 / 38824	831	1565	3849	LINR	0.00150	0.07410		0.99960	<-

ALS Laboratory Group

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Last Edit : 22-Jun-2024 12:55 r.patel

Compound	0.5000000 Level 1 / 50.0000 Level 7	1.0000 Level 2 / 100.0000 Level 8	2.0000 Level 3 / 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
177 Dimethyl ether	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
3 Chloromethane	2074 / 100068	3170 / 194087	5007 / 406492	9757	20504	40922	LINR	-0.01534	0.76892		0.99979	
4 Propionitrile	1322 / 85378	2802 / 165344	5206 / 346124	7847	16213	33066	LINR	-0.10521	0.06556		0.99976	
5 Vinyl Chloride	1472 / 86543	2099 / 171559	3135 / 361844	8287	17554	35249	LINR	-0.00300	0.68542		0.99980	
178 Ethylene oxide	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
6 Bromomethane	1396 / 55461	1923 / 104925	3109 / 195540	6316	11794	23141	QUAD	-0.01420	2.13923	0.37368	0.99998	
7 Chloroethane	1072 / 52636	1585 / 103518	2127 / 218152	5207	11009	21226	LINR	-0.00828	0.41272		0.99979	

ALS Laboratory Group

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Compound	0.5000000 Level 1 / 50.0000 Level 7	1.0000 Level 2 / 100.0000 Level 8	2.0000 Level 3 / 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
8 Trichlorofluoromethane	1621	1839	3166	10035	22220	45662						
	115735	227811	482183				LINR	0.00498	0.91528		0.99977	
9 Acrolein	+++++	61.00000	140	294	688	1590						
	4959	9979	18902				QUAD	0.08914	45.59159	64.42059	0.99950	<-
10 Acetone	1457	1845	3461	5792	10759	19214						
	44569	85875	167976				LINR	-0.12807	0.15910		0.99924	
11 1,1-Dichloroethene	0.59512	0.48741	0.35359	0.42682	0.49564	0.49098						
	0.49668	0.48823	0.50305				AVRG		0.48195		13.39149	
12 Isobutyl Alcohol	4080	7035	12752	20180	39559	83712						
	198746	394187	822489				LINR	-0.31901	0.07776		0.99986	
13 Acetonitrile	1111	2062	5409	8747	17600	35284						
	89228	174954	370823				LINR	-0.04859	0.07015		0.99971	
14 Allyl Chloride	2895	5788	11778	18967	34793	74522						
	193266	374963	786860				LINR	-0.00795	1.49072		0.99974	

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Compound	0.5000000 Level 1 / 50.0000 Level 7	1.0000 Level 2 / 100.0000 Level 8	2.0000 Level 3 / 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
15 Iodomethane	229	487	1257	3777	10595	28182						
	89328	215220	520851				QUAD	0.10193	2.64391	-0.16539	0.99920	<-
16 Acrylonitrile	660	1134	2373	3922	7540	17124						
	42984	84159	176557				LINR	-0.00882	0.16741		0.99978	
17 Methylene Chloride	2439	3129	4884	8581	15055	30059						
	72694	143145	298034				LINR	-0.02548	0.56210		0.99988	
18 Methyl tert-butyl ether	2199	4268	9247	14360	28475	60849						
	160670	325589	711970				LINR	0.01854	1.34571		0.99904	
19 Carbon Disulfide	6927	9785	15355	35818	78771	157714						
	392943	780378	1673748				LINR	0.00788	1.58272		0.99958	
20 trans-1,2-Dichloroethene	0.67074	0.59101	0.51680	0.48500	0.50065	0.51202						
	0.51614	0.50253	0.51921				AVRG		0.53490		11.01292	
21 Vinyl Acetate	1782	2723	5007	8177	15657	26974						
	67633	137107	285944				LINR	-0.03904	0.26967		0.99982	

ALS Laboratory Group

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Compound	0.5000000 Level 1 / 50.0000 Level 7	1.0000 Level 2 / 100.0000 Level 8	2.0000 Level 3 / 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
22 1,1-Dichloroethane	2252	3410	6081	12786	26028	54427					
	136347	270479	568496				LINR	-0.00209	1.07778		0.99985
23 Chloroprene	1.21983	1.03087	0.79140	0.82906	0.89064	0.90023					
	0.92010	0.91487	0.94578				AVRG		0.93809		13.37813
24 2-Butanone	2105	2837	4968	7043	12394	24892					
	55817	109808	236840				LINR	-0.05534	0.22157		0.99919
25 Methacrylonitrile	1023	1820	4985	9929	19313	40265					
	95842	196612	443834				LINR	0.02267	0.83493		0.99795
26 2,2-Dichloropropane	1654	2328	3983	9923	21711	45854					
	116989	235614	499422				LINR	0.01006	0.94809		0.99978
27 cis-1,2-Dichloroethene	1278	1923	3811	7198	14273	29226					
	73829	148465	313493				LINR	0.00034	0.59375		0.99980
28 Chloroform	2578	3649	6529	12716	25405	54121					
	133998	266384	556477				LINR	-0.00573	1.05510		0.99989

ALS Laboratory Group

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Compound	0.5000000 Level 1 / 50.0000 Level 7	1.0000 Level 2 / 100.0000 Level 8	2.0000 Level 3 / 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
29 Bromochloromethane	476 36515	1013 72145	1784 147403	3309	6945	14625	 LINR	 -0.01196	 0.28045		 0.99989
31 1,1,1-Trichloroethane	1701 116966	2209 235912	3666 498996	9862	22027	46096	 LINR	 0.00964	 0.94757		 0.99981
32 1,1-Dichloropropene	1918 101818	2608 202600	3678 430683	8873	18899	40307	 LINR	 0.00552	 0.49923		 0.99975
33 1,2-Dichloroethane	1842 113617	3321 223991	5862 466569	10763	22027	45019	 LINR	 -0.00807	 0.54113		 0.99988
34 Carbon Tetrachloride	1649 102107	2397 208133	3233 442439	8745	19330	39382	 LINR	 0.01312	 0.51349		 0.99976
37 Benzene	5601 271685	7825 542298	12786 1134370	26743	54343	109367	 LINR	 -0.00639	 1.31438		 0.99991
38 Trichloroethene	1116 71519	1844 142495	2891 299845	6363	13898	28788	 LINR	 -0.00008	 0.34773		 0.99986

ALS Laboratory Group

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Compound	0.5000000 Level 1 / 50.0000 Level 7	1.0000 Level 2 / 100.0000 Level 8	2.0000 Level 3 / 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
39 Bromodichloromethane	1982 102850	2792 206546	5306 436473	9709	19931	40275	LINR	0.00105	0.50557		0.99981
40 Methyl Methacrylate	1119 68215	2255 129664	4000 265056	6961	13358	26965	LINR	-0.02617	0.50291		0.99966
41 2-Chloroethylvinyl ether	845 55772	1601 114619	2824 265387	4830	10150	21639	QUAD	-0.01478	7.83751	-1.08936	0.99987
42 1,2-Dichloropropane	1394 78317	2320 157219	3943 330429	7516	15568	31365	LINR	-0.00295	0.38276		0.99988
43 2-Nitropropane	364 21035	803 42166	1280 93821	2164	3921	8546	LINR	0.01175	0.17646		0.99849
44 Dibromomethane	739 44490	1232 88641	2361 187225	4269	8549	18165	LINR	-0.00305	0.21673		0.99981
45 4-Methyl-2-Pentanone	3013 143348	5173 274193	9217 587956	14553	28349	59237	LINR	-0.04780	0.35512		0.99947

ALS Laboratory Group

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Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\8260W.m
Last Edit : 22-Jun-2024 12:55 r.patel

Compound	0.5000000 Level 1 / 50.0000 Level 7	1.0000 Level 2 / 100.0000 Level 8	2.0000 Level 3 / 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
46 cis-1,3-Dichloropropene	1985 111444	2939 227034	5638 494031	10102	20669	43881	LINR	0.01529	0.57095		0.99929
49 Ethyl Methacrylate	670 63036	2106 147894	2930 347139	6472	12386	24489	QUAD	0.00479	3.17573	-0.43708	0.99969
50 Toluene	5326 286735	7764 569573	13432 1184335	27240	56631	114618	LINR	-0.01691	1.44120		0.99973
51 trans-1,3-Dichloropropene	1985 111444	2939 227034	5638 494031	10102	20669	43881	LINR	0.01529	0.57095		0.99929
52 2-Hexanone	1898 97829	3164 196592	6350 408580	10165	19605	39097	LINR	-0.04097	0.24814		0.99983
53 1,1,2-Trichloroethane	1113 55834	1788 108669	3155 226781	5269	10863	22801	LINR	-0.02387	0.27544		0.99957
54 1,3-Dichloropropane	2330 115699	3554 226498	6405 473785	11372	22865	46447	LINR	-0.02157	0.57529		0.99967

ALS Laboratory Group

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Method file : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\8260W.m
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Compound	0.5000000 Level 1 / 50.0000 Level 7	1.0000 Level 2 / 100.0000 Level 8	2.0000 Level 3 / 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
55 Dibromochloromethane	1235 75592	2100 152411	3975 324738	6657	14217	30210	LINR	-0.00408	0.39421		0.99985
56 Tetrachloroethene	867 55200	1137 112904	1867 232209	4775	10566	22116	LINR	-0.00773	0.28376		0.99975
57 1,2-Dibromoethane	1275 52163	1851 101409	3262 220504	5796	11071	21812	LINR	-0.02033	0.26561		0.99952
58 1-Chlorohexane	2878 69519	3327 134896	4335 277125	7631	15803	29232	LINR	-0.03720	0.31973		0.99984
59 Chlorobenzene	3539 185207	5255 370792	9520 777930	18614	37090	74949	LINR	-0.01553	0.94465		0.99985
60 1,1,1,2-Tetrachloroethane	1160 68429	2007 137821	3184 295819	6203	12805	26714	LINR	-0.00040	0.35891		0.99981
61 Ethylbenzene	1538 95361	2344 193263	4421 405032	8642	18857	38647	LINR	-0.00919	0.49269		0.99989

ALS Laboratory Group

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Last Edit : 22-Jun-2024 12:55 r.patel

Compound	0.5000000 Level 1 / 50.0000 Level 7	1.0000 Level 2 / 100.0000 Level 8	2.0000 Level 3 / 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
62 m,p-Xylenes	4347 243196	6254 483615	10925 1021002	22915	48175	96983	LINR	-0.02220	0.62010		0.99981	
63 o-Xylene	1921 116668	3077 232496	5603 489577	11500	23155	47025	LINR	-0.01323	0.59459		0.99982	
64 Styrene	3179 194776	5325 392368	9482 832493	18457	37663	77439	LINR	-0.00650	1.01080		0.99988	
65 cis-1,4-Dichloro-2-butene	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
66 Bromoform	644 47726	1111 95800	2434 207700	4305	8762	18623	LINR	0.00347	0.25180		0.99970	
67 Isopropylbenzene	4616 296410	6936 592971	11370 1244948	26698	59794	119139	LINR	-0.00993	1.51449		0.99982	
68 1,1,2,2-Tetrachloroethane	1638 86043	2608 169960	5085 357305	8324	16494	34384	LINR	-0.03579	0.81751		0.99920	

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 12-JUN-2024 11:43
End Cal Date : 12-JUN-2024 14:46
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\8260W.m
Last Edit : 22-Jun-2024 12:55 r.patel

Compound	0.5000000 Level 1 / 50.0000 Level 7	1.0000 Level 2 / 100.0000 Level 8	2.0000 Level 3 / 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
71 1,2,3-Trichloropropane	1970 92496	2930 182982	5811 388904	9154	17513	38498	LINR	-0.03588	0.88752		0.99927
72 trans-1,4-Dichloro-2-butene	204 19015	604 38646	1085 84582	1825	3844	7571	LINR	0.00246	0.10224		0.99960
73 n-Propylbenzene	5281 362847	8454 733028	14008 1539134	31484	69205	142065	LINR	-0.02137	3.53453		0.99942
74 Bromobenzene	1408 80532	2312 161244	4190 340627	7622	15846	31875	LINR	-0.02891	0.77951		0.99943
75 1,3,5-Trimethylbenzene	4027 248908	6275 513912	10479 1097303	21967	48385	100061	LINR	-0.01498	2.51198		0.99974
76 2-Chlorotoluene	3845 221871	5960 450703	10626 945763	20862	43088	89803	LINR	-0.02729	2.16748		0.99951
77 4-Chlorotoluene	4518 260307	6656 528982	12467 1107997	24474	50748	103804	LINR	-0.02676	2.54060		0.99950

ALS Laboratory Group

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Last Edit : 22-Jun-2024 12:55 r.patel

Compound	0.5000000 Level 1 / 50.0000 Level 7	1.0000 Level 2 / 100.0000 Level 8	2.0000 Level 3 / 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
78 tert-Butylbenzene	3172 211821	4823 434310	7955 908367	18573	42861	86493	LINR	-0.02367	2.08522		0.99951	
79 1,2,4-Trimethylbenzene	4065 254417	6769 518063	11212 1094080	23050	48879	100023	LINR	-0.02092	2.50794		0.99959	
80 Pentachloroethane	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
81 sec-Butylbenzene	3718 298413	6172 603134	9992 1265216	25390	57424	117646	LINR	-0.02003	2.90772		0.99938	
82 p-Isopropyltoluene	3.71794 2.77525	3.37393 2.58505	2.68599 2.56822	2.53810	2.66184	2.73274	AVRG		2.84879		14.45364	
83 1,3-Dichlorobenzene	2490 143335	3904 293977	6890 619265	12753	26990	56080	LINR	-0.01997	1.42013		0.99964	
84 1,4-Dichlorobenzene	2458 147752	4079 304950	7277 639034	13852	29125	57142	LINR	-0.02202	1.46573		0.99968	

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Method file : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\8260W.m
Last Edit : 22-Jun-2024 12:55 r.patel

Compound	0.5000000 Level 1 / 50.0000 Level 7	1.0000 Level 2 / 100.0000 Level 8	2.0000 Level 3 / 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
85 bis(2-Chloro-isopropyl)ether	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
86 Benzyl Chloride	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
87 n-Butylbenzene	3.19203	3.05169	2.23935	2.35938	2.46421	2.54788						
	2.63538	2.39071	2.35297				AVRG		2.58151		12.74974	
88 1,2-Dichlorobenzene	2401	3749	6840	12779	25590	54117						
	139489	287218	600569				LINR	-0.02065	1.37903		0.99961	
89 1,2-Dibromo-3-Chloropropane	0.14032	0.17307	0.16969	0.14839	0.13488	0.14350						
	0.14718	0.13752	0.13862				AVRG		0.14813		9.39301	
90 1,2,4-Trichlorobenzene	1060	1918	3484	6547	14853	31742						
	84392	182539	385944				LINR	0.00207	0.88798		0.99991	
91 Hexachlorobutadiene	0.36083	0.36303	0.36571	0.38246	0.41684	0.44951						
	0.45426	0.43079	0.43551				AVRG		0.40655		9.48117	

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INITIAL CALIBRATION DATA

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Method file : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\8260W.m
Last Edit : 22-Jun-2024 12:55 r.patel

Compound	0.5000000 Level 1 50.0000 Level 7	1.0000 Level 2 100.0000 Level 8	2.0000 Level 3 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
92 Naphthalene	2539 188539	4251 404214	7916 848291	14800	31957	69635	LINR	-0.00041	1.95433		0.99981	
93 1,2,3-Trichlorobenzene	874 66724	1472 145097	2374 308615	5273	11945	24650	LINR	0.00618	0.70979		0.99992	
130 Ethyl Acetate	8116 413703	12937 811897	25416 1804860	39063	76520	165195	LINR	0.00997	3.39632		0.99860	
131 Methyl Acrylate	870 67491	2257 128500	4202 272963	6677	12697	28780	LINR	-0.01611	0.51520		0.99946	
132 n-Butanol	202 41434	460 84786	1996 176274	4168	8353	17130	LINR	0.00577	0.01674		0.99994	
133 Ethyl Acrylate	1.24449 1.37144	1.57517 1.32725	1.79407 1.37477	1.34499	1.33728	1.37412	AVRG		1.41595		11.77123	
134 Cyclohexanone	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-

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Method file : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\8260W.m
Last Edit : 22-Jun-2024 12:55 r.patel

Compound	0.5000000 Level 1 / 50.0000 Level 7	1.0000 Level 2 / 100.0000 Level 8	2.0000 Level 3 / 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
135 1,4-Dioxane	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
136 n-Hexane	630 / 71474	889 / 143496	1262 / 309832	4913	13421	28414	LINR	0.02125	0.58823		0.99951	
137 n-Pentane	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
138 Freon TF	660 / 64931	631 / 128860	1434 / 273013	4806	12429	25439	LINR	0.01212	0.51915		0.99977	
146 Methyl Acetate	1098 / 48593	1741 / 99106	3590 / 205889	5072	10260	20757	LINR	-0.01608	0.38914		0.99988	
147 Methylcyclohexane	580 / 100294	1103 / 197270	3793 / 429412	8440	17217	37575	LINR	0.02008	0.49778		0.99937	
149 Isopropyl alcohol	1271 / 81009	2719 / 152531	4734 / 337246	8371	15178	32395	LINR	-0.04183	0.03171		0.99871	

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Compound	0.5000000 Level 1 / 50.0000 Level 7	1.0000 Level 2 / 100.0000 Level 8	2.0000 Level 3 / 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
152 Amyl alcohol	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
150 Allyl alcohol	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
151 4-Methyl-2-pentanol	6970 / 352297	14520 / 740664	22526 / 1681264	44355	80928	156868	LINR	0.06738	0.10079		0.99841	
148 Tert-butyl alcohol	1899 / 89417	3194 / 166587	5655 / 388459	9734	18548	38825	QUAD	-0.86423	32.43804	-1.70555	0.99888	
139 Diethyl ether	418 / 42766	997 / 84057	2216 / 180092	3375	7639	16841	LINR	0.00723	0.34117		0.99956	
140 1,3-Butadiene	396 / 37900	599 / 78720	874 / 164372	2741	7078	14952	LINR	0.01640	0.31332		0.99991	
141 Cyclohexane	+++++ / 103229	3616 / 205871	4809 / 432114	10009	21416	40963	LINR	-0.00598	0.81819		0.99985	

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Compound	0.5000000 Level 1 / 50.0000 Level 7	1.0000 Level 2 / 100.0000 Level 8	2.0000 Level 3 / 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
142 Tetrahydrofuran	212 21782	750 43971	1310 94446	1795	3784	9203	LINR	0.01360	0.08931		0.99942	
143 1-Chlorobutane	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
144 Nitrobenzene	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
145 alpha-Methylstyrene	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
153 Tetraethyl lead	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
154 2,3-Dichlorobutane	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
155 2-Pentanone	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-

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Method file : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\8260W.m
Last Edit : 22-Jun-2024 12:55 r.patel

Compound	0.5000000 Level 1 / 50.0000 Level 7	1.0000 Level 2 / 100.0000 Level 8	2.0000 Level 3 / 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
156 Diisopropyl ether	2859 227369	5587 445729	11883 948775	19071	39998	89049	LINR	0.00379	1.79800		0.99964	
158 Propylene oxide	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
159 Dichlorofluoromethane	1.11791 0.96231	1.17055 0.91758	1.28939 0.93870	0.98192	0.94351	0.97276	AVRG		1.03274		12.50031	
160 Epichlorohydrin	102 16160	383 31938	854 74228	1450	2913	5554	QUAD	-0.01585	55.50862	-26.37268	0.99954	
161 Butyl acrylate	2462 154014	4551 316497	8919 681083	13964	26791	57895	LINR	0.00704	0.82685		0.99974	
162 3-Methyl-1-butanol	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
163 Dicyclopentadiene	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-

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Last Edit : 22-Jun-2024 12:55 r.patel

Compound	0.5000000 Level 1 / 50.0000 Level 7	1.0000 Level 2 / 100.0000 Level 8	2.0000 Level 3 / 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
165 4-Vinyl-1-cyclohexene	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
166 1,2,3-Trimethylbenzene	3306 / 232553	5692 / 455398	12970 / 961261	21630	41781	89937	LINR	-0.02881	2.20315		0.99905	
167 Ethanol	160 / 14655	699 / 26045	1128 / 50310	1664	3235	5544	LINR	-1.41357	0.00479		0.99731	
168 Butyl methacrylate	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
169 1-Propanol	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
170 1,3,5-Trichlorobenzene	+++++ / +++++	+++++ / +++++	+++++ / 0.88987	+++++	+++++	+++++	AVRG		0.88987		0.000e+000	<-
171 1-Methylnaphthalene	153 / 52475	569 / 120423	1519 / 274483	3073	7742	17884	LINR	0.05284	0.63002		0.99855	

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Last Edit : 22-Jun-2024 12:55 r.patel

Compound	0.5000000 Level 1 / 50.0000 Level 7	1.0000 Level 2 / 100.0000 Level 8	2.0000 Level 3 / 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
172 tert-Butyl formate	1899 89417	3268 166587	6008 388459	9734	18548	38825	QUAD	-0.08883	3.24769	-0.17161	0.99889	
173 3,3-Dimethyl-1-butanol	952 86895	3401 199514	5907 477501	8986	18947	34477	QUAD	-0.19296	43.92036	-4.06326	0.99988	
174 tert-Amyl methyl ether	3192 176854	5441 344051	11166 773133	17818	33756	68017	QUAD	-0.02222	0.78239	-0.01674	0.99965	
175 tert-Butyl ethyl ether	2679 188058	5191 378160	10850 837966	17239	33998	73138	QUAD	-0.01109	0.71076	-0.01284	0.99985	
176 tert-Amyl alcohol	1987 89002	3133 157877	5627 341276	11946	22327	35788	LINR	-0.85270	0.03194		0.99848	
179 Hexachloroethane	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
180 2-Furfural	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-

ALS Laboratory Group

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Compound	0.5000000 Level 1 / 50.0000 Level 7	1.0000 Level 2 / 100.0000 Level 8	2.0000 Level 3 / 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
183 Isopropyl Acetate	4080 / 198746	7035 / 394187	12752 / 811507	20180	39559	83712	LINR	-0.01982	0.94010		0.99990	
184 n-Amyl acetate	2963 / 138814	4598 / 297368	8186 / 663193	13889	26666	54713	LINR	0.01885	0.80082		0.99897	
185 Acetaldehyde	4899 / 59293	8787 / 102104	11092 / 168802	18333	27449	36006	QUAD	-0.54031	6.65514	4.86578	0.99818	<-
M 94 1,2-Dichloroethylene (total)	2094 / 138091	3315 / 277047	6284 / 586128	13017	26565	54689	LINR	0.00558	0.55535		0.99979	
M 95 Xylenes (total)	6268 / 359864	9331 / 716111	16528 / 1510579	34415	71330	144008	LINR	-0.00649	0.58322		0.99984	
$ 30 Dibromofluoromethane	1653 / 68008	2282 / 130301	4300 / 281674	6860	13222	27328	LINR	-0.00889	0.53045		0.99930	
$ 35 1,2-Dichloroethane-d4	2754 / 88709	3202 / 172280	5824 / 367451	9601	18104	36179	LINR	-0.01585	0.69196		0.99957	

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Compound	0.5000000 Level 1 / 50.0000 Level 7	1.0000 Level 2 / 100.0000 Level 8	2.0000 Level 3 / 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
$ 48 Toluene-d8	+++++ / 242880	9737 / 476337	15674 / 1005869	25676	50368	96641	LINR	-0.02601	1.21643		0.99975
$ 69 4-Bromofluorobenzene	+++++ / 95402	6716 / 184164	8132 / 392522	11003	20440	38666	LINR	-0.04204	0.47152		0.99960

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Last Edit : 22-Jun-2024 12:55 r.patel

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Linear	Amt = b + Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

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INITIAL CALIBRATION DATA

Start Cal Date : 03-JUN-2024 17:24
End Cal Date : 05-JUN-2024 22:12
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\8260C.m
Last Edit : 21-Jun-2024 17:31 r.patel

Calibration File Names:
Level 1: \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060502.D
Level 2: \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060503.D
Level 3: \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060504.D
Level 4: \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060505.D
Level 5: \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060506.D
Level 6: \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060507.D
Level 7: \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060508.D
Level 8: \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060509.D
Level 9: \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060510.D
Level 10: \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060511.D

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
2 Dichlorodifluoromethane	+++++	284	674	728	3261	12496						
	33264	66430	108701	145581			LINR	0.01595	0.15774		0.99876	<-
3 Chloromethane	+++++	4840	5603	7473	16295	52001						
	137470	266239	381192	489120			LINR	-0.07164	0.53883		0.99615	
4 Propionitrile	+++++	1894	2734	4275	10006	40218						
	106147	209211	325941	456063			LINR	0.02905	0.04859		0.99949	

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 03-JUN-2024 17:24
End Cal Date : 05-JUN-2024 22:12
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\8260C.m
Last Edit : 21-Jun-2024 17:31 r.patel

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
5 Vinyl Chloride	+++++	0.39954	0.39431	0.26144	0.36432	0.31117					
	0.32678	0.32102	0.34096	0.33623			AVRG		0.33953		12.59808
6 Bromomethane	+++++	1163	1336	2007	3935	12706					
	32479	66230	103324	142717			LINR	-0.01113	0.15204		0.99954
7 Chloroethane	+++++	920	1372	2264	5724	19725					
	53556	107274	167664	226867			LINR	-0.00364	0.24465		0.99962
8 Trichlorofluoromethane	+++++	0.42872	0.50517	0.29609	0.48314	0.42350					
	0.45247	0.43372	0.46809	0.44938			AVRG		0.43781		13.57248
9 Acrolein	+++++	309	319	566	842	2397					
	8034	15155	22474	35211			QUAD	-0.09285	67.18827	-87.30112	0.99774
10 Acetone	+++++	2389	2573	3897	7303	23436					
	64098	112184	171689	242163			LINR	-0.08579	0.12757		0.99856
11 1,1-Dichloroethene	+++++	0.33130	0.33357	0.22339	0.30237	0.26673					
	0.27725	0.26952	0.29213	0.28460			AVRG		0.28676		11.86245

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INITIAL CALIBRATION DATA

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Compound	0.2500000 Level 1	0.5000000 Level 2	1.0000 Level 3	2.0000 Level 4	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	50.0000 Level 7	100.0000 Level 8	150.0000 Level 9	200.0000 Level 10								
12 Isobutyl Alcohol	+++++	0.06564	0.05518	0.05141	0.04708	0.04653						
	0.05285	0.05211	0.05357	0.05422			AVRG		0.05318		10.43509	
13 Acetonitrile	+++++	1332	1908	3507	8857	35153						
	88484	179078	282036	386763			LINR	0.03534	0.04150		0.99954	
14 Allyl Chloride	+++++	2988	4870	8420	19908	78943						
	201356	407504	639130	874172			LINR	0.00146	0.93896		0.99962	
15 Iodomethane	+++++	1019	1107	1359	2881	9380						
	29057	88741	+++++	+++++			QUAD	-0.04480	18.08271	-19.86001	0.99953	<-
16 Acrylonitrile	+++++	1178	1798	2585	5811	21490						
	55197	110053	168175	230885			LINR	-0.02957	0.12367		0.99988	
17 Methylene Chloride	+++++	2251	2735	4211	9288	29540						
	76359	153032	226783	314968			LINR	-0.02782	0.33578		0.99994	
18 Methyl tert-butyl ether	+++++	3012	4478	8274	18303	72150						
	184999	370094	572755	796968			LINR	-0.00097	0.85068		0.99969	

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19 Carbon Disulfide	+++++	1.06338	0.91589	0.67174	0.77888	0.73246					
	0.78449	0.78427	0.83896	0.82689			AVRG		0.82189		13.78415
20 trans-1,2-Dichloroethene	+++++	879	1615	2486	6873	24223					
	66993	135099	208803	285675			LINR	0.00147	0.30745		0.99979
21 Vinyl Acetate	+++++	1568	1876	2901	6797	29884					
	86076	178473	258861	366892			LINR	0.00901	0.19626		0.99969
22 1,1-Dichloroethane	+++++	1917	3367	5205	13484	49079					
	132515	267743	401447	557243			LINR	-0.00638	0.59706		0.99995
23 Chloroprene	+++++	0.64480	0.50393	0.44262	0.49815	0.46290					
	0.49185	0.49829	0.52499	0.52009			AVRG		0.50974		11.16239
24 2-Butanone	+++++	2623	3070	4205	7617	28126					
	82452	162105	244157	343950			LINR	-0.01536	0.18293		0.99961
25 Methacrylonitrile	+++++	722	1301	1556	3984	16755					
	45303	97174	148796	215084			LINR	0.02941	0.22787		0.99871

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26 2,2-Dichloropropane	+++++	0.53602	0.43974	0.35228	0.39268	0.37096					
	0.41311	0.42375	0.44997	0.45058			AVRG		0.42545		12.66111
27 cis-1,2-Dichloroethene	+++++	1284	1821	3282	7546	28739					
	80088	163681	250121	344361			LINR	0.00341	0.37024		0.99988
28 Chloroform	+++++	0.81392	0.78861	0.66072	0.65104	0.58240					
	0.61497	0.60329	0.60948	0.60641			AVRG		0.65898		12.80832
29 Bromochloromethane	+++++	747	854	1634	3834	14487					
	40291	81350	119214	165957			LINR	-0.01035	0.17801		0.99985
31 1,1,1-Trichloroethane	+++++	0.53206	0.48196	0.39638	0.44371	0.42724					
	0.48319	0.47483	0.51154	0.50754			AVRG		0.47316		9.20492
32 1,1-Dichloropropene	+++++	0.42975	0.30442	0.27945	0.32126	0.29219					
	0.31296	0.30989	0.32889	0.32757			AVRG		0.32293		13.37189
33 1,2-Dichloroethane	+++++	1732	2470	4597	11017	41071					
	111560	223618	330090	456558			LINR	-0.01306	0.34101		0.99983

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	50.0000 Level 7	100.0000 Level 8	150.0000 Level 9	200.0000 Level 10								
34 Carbon Tetrachloride	+++++	0.28985	0.30120	0.18601	0.23996	0.23454						
	0.27294	0.27692	0.29870	0.29813			AVRG		0.26647		14.61877	
37 Benzene	+++++	4327	6794	11775	28522	106397						
	297605	606369	918326	1272684			LINR	0.00253	0.94987		0.99991	
38 Trichloroethene	+++++	0.28281	0.27321	0.22839	0.25051	0.22645						
	0.24579	0.23747	0.24855	0.24786			AVRG		0.24901		7.52601	
39 Bromodichloromethane	+++++	0.39620	0.28220	0.27034	0.24816	0.25727						
	0.29303	0.30282	0.30815	0.31181			AVRG		0.29667		14.65747	
40 Methyl Methacrylate	+++++	+++++	884	1485	2092	11132						
	31423	66130	106205	149326			LINR	0.04581	0.16000		0.99843	<-
41 2-Chloroethylvinyl ether	+++++	189	308	675	1922	9480						
	33395	88149	150387	229637			QUAD	0.11965	16.12850	-6.89926	0.99803	
42 1,2-Dichloropropane	+++++	1317	1675	3585	7788	30155						
	83760	171059	255544	354491			LINR	-0.00143	0.26469		0.99994	

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Compound	0.2500000 Level 1	0.5000000 Level 2	1.0000 Level 3	2.0000 Level 4	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	50.0000 Level 7	100.0000 Level 8	150.0000 Level 9	200.0000 Level 10								
43 2-Nitropropane	+++++	0.06082	0.04963	0.06237	0.06048	0.06531						
	0.07564	0.08403	0.09293	0.09720			AVRG		0.07204		22.63024	<-
44 Dibromomethane	+++++	694	1022	1788	4516	17413						
	48965	99903	145069	204532			LINR	-0.00366	0.15220		0.99976	
45 4-Methyl-2-Pentanone	+++++	2528	3077	5646	13477	56134						
	166404	363354	539055	765349			LINR	0.05254	0.31216		0.99954	
46 cis-1,3-Dichloropropene	+++++	1067	1599	3116	8170	35170						
	112080	250907	381863	547834			LINR	0.04916	0.40731		0.99885	
49 Ethyl Methacrylate	+++++	0.41163	0.30018	0.26956	0.26206	0.30268						
	0.31953	0.32597	0.35806	0.36172			AVRG		0.32349		14.70651	
50 Toluene	+++++	1.40232	1.21413	1.01507	1.05759	1.03095						
	1.09951	1.05837	1.09051	1.07760			AVRG		1.11623		10.88752	
51 trans-1,3-Dichloropropene	+++++	715	1337	2198	5800	29131						
	93193	208066	320938	455455			LINR	0.05242	0.33997		0.99893	

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	50.0000 Level 7	100.0000 Level 8	150.0000 Level 9	200.0000 Level 10								
52 2-Hexanone	+++++ 117753	2401 231901	3890 365524	6307 508784	15779	50519	LINR	-0.02890	0.20557		0.99894	
53 1,1,2-Trichloroethane	+++++ 61653	916 125721	1192 185722	2412 258307	5854	22461	LINR	-0.00422	0.21122		0.99993	
54 1,3-Dichloropropane	+++++ 132384	1886 273313	2645 401664	4929 556124	11941	46487	LINR	-0.00097	0.45632		0.99990	
55 Dibromochloromethane	+++++ 72142	603 157625	991 236457	1913 336013	4936	23412	LINR	0.03793	0.27457		0.99939	
56 Tetrachloroethene	+++++ 0.21507	0.22236 0.20445	0.27042 0.21821	0.18884 0.21678	0.21702	0.19956	AVRG		0.21697		10.48780	<-
57 1,2-Dibromoethane	+++++ 72541	908 148566	1394 220913	2307 310250	5821	24396	LINR	0.01164	0.25353		0.99979	
58 1-Chlorohexane	+++++ 61251	3325 126267	3967 208843	4419 282886	8603	22935	LINR	-0.00267	0.21021		0.99781	

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	50.0000 Level 7	100.0000 Level 8	150.0000 Level 9	200.0000 Level 10								
59 Chlorobenzene	+++++	2889	4601	8144	19728	72064						
	201213	410301	613010	847312			LINR	-0.00277	0.69384		0.99991	
60 1,1,1,2-Tetrachloroethane	+++++	0.26705	0.24046	0.22427	0.21064	0.21332						
	0.24902	0.25013	0.25747	0.26206			AVRG		0.24160		8.66426	
61 Ethylbenzene	+++++	0.43789	0.34809	0.31232	0.33641	0.32540						
	0.36276	0.35254	0.36782	0.36497			AVRG		0.35647		10.05265	
62 m,p-Xylenes	+++++	0.51214	0.43216	0.38299	0.40815	0.41445						
	0.46328	0.44796	0.46624	0.45930			AVRG		0.44296		8.65906	
63 o-Xylene	+++++	0.46062	0.44199	0.37585	0.38541	0.40989						
	0.45271	0.43920	0.44705	0.44591			AVRG		0.42874		7.15871	
64 Styrene	+++++	0.72767	0.66909	0.58931	0.60917	0.65437						
	0.74526	0.73906	0.75628	0.75023			AVRG		0.69338		9.28727	
65 cis-1,4-Dichloro-2-butene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-

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66 Bromoform	+++++	366	645	1212	2656	12657						
	43376	98710	153936	223996			LINR	0.07040	0.18196		0.99717	<-
67 Isopropylbenzene	+++++	0.95306	0.94886	0.83733	0.96237	0.98762						
	1.13271	1.07882	1.14332	1.12047			AVRG		1.01828		10.34168	
68 1,1,2,2-Tetrachloroethane	+++++	1446	2094	4084	9596	37438						
	105142	214761	312825	431182			LINR	-0.00538	0.66047		0.99981	
71 1,2,3-Trichloropropane	+++++	1453	2024	3957	7709	35060						
	102444	217627	323632	460553			LINR	0.02541	0.69926		0.99911	
72 trans-1,4-Dichloro-2-butene	+++++	294	491	824	1921	7145						
	21076	46658	71862	93721			LINR	0.01376	0.07875		0.99839	
73 n-Propylbenzene	+++++	2.42500	2.32678	1.80982	2.07575	2.08574						
	2.45755	2.36347	2.50692	2.40570			AVRG		2.27297		10.18901	
74 Bromobenzene	+++++	1069	1882	3263	7851	31330						
	88012	180396	270926	372976			LINR	0.00600	0.57083		0.99984	

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75 1,3,5-Trimethylbenzene	+++++	1.50085	1.35754	1.17604	1.29762	1.39314					
	1.67855	1.63505	1.72950	1.70232			AVRG		1.49674		13.38840
76 2-Chlorotoluene	+++++	1.83585	1.53996	1.36035	1.38439	1.32694					
	1.47805	1.42502	1.46607	1.44863			AVRG		1.47392		10.20452
77 4-Chlorotoluene	+++++	2.10477	1.65236	1.63429	1.57235	1.51851					
	1.71762	1.66983	1.71247	1.69423			AVRG		1.69738		9.79219
78 tert-Butylbenzene	+++++	1.47909	1.33143	1.09295	1.28975	1.27277					
	1.47090	1.41671	1.49642	1.45863			AVRG		1.36763		9.74814
79 1,2,4-Trimethylbenzene	+++++	1.73636	1.44004	1.30302	1.31443	1.37360					
	1.67760	1.65752	1.73328	1.69675			AVRG		1.54807		12.02787
80 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
81 sec-Butylbenzene	+++++	1.67573	1.82153	1.35606	1.67325	1.70315					
	2.01442	1.93520	2.07838	2.01521			AVRG		1.80810		12.76115

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	50.0000 Level 7	100.0000 Level 8	150.0000 Level 9	200.0000 Level 10								
82 p-Isopropyltoluene	+++++	1.42546	1.42945	1.16801	1.38158	1.40681						
	1.73396	1.69569	1.81332	1.76826			AVRG		1.53584		14.46902	
83 1,3-Dichlorobenzene	+++++	1.40525	1.15279	1.02535	0.96960	0.90613						
	1.01898	0.98675	1.01120	0.98875			AVRG		1.05164		14.05334	
84 1,4-Dichlorobenzene	+++++	2283	3841	7121	15200	58041						
	162529	331801	499141	675420			LINR	-0.00301	1.03869		0.99988	
85 bis(2-Chloro-isopropyl)ether	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
86 Benzyl Chloride	+++++	1834	2454	3116	6861	26276						
	83027	204159	328807	479644			QUAD	0.02583	3.19418	-0.43518	0.99897	
87 n-Butylbenzene	+++++	2086	3873	5174	17474	74719						
	230022	480120	771364	1027127			LINR	0.03437	1.59386		0.99886	
88 1,2-Dichlorobenzene	+++++	2011	3200	5496	14242	54965						
	154054	315605	473254	640427			LINR	-0.00041	0.98612		0.99990	

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89 1,2-Dibromo-3-Chloropropane	+++++	25.00000	163	293	850	3946						
	11983	27833	44798	63420			QUAD	0.02963	12.33025	-5.65822	0.99951	<-
90 1,2,4-Trichlorobenzene	+++++	1040	1549	2921	7290	31651						
	98804	207612	328333	444784			LINR	0.03509	0.68631		0.99910	
91 Hexachlorobutadiene	+++++	0.30390	0.36067	0.22408	0.26650	0.25469						
	0.28782	0.27977	0.30062	0.29769			AVRG		0.28619		13.23843	
92 Naphthalene	+++++	1887	3046	5312	13942	73366						
	238716	504584	774087	1062354			LINR	0.03782	1.63801		0.99945	
93 1,2,3-Trichlorobenzene	+++++	0.68242	0.54839	0.51930	0.50115	0.50490						
	0.60375	0.58311	0.62311	0.61930			AVRG		0.57616		10.78221	
130 Ethyl Acetate	+++++	776	1204	1381	3686	13954						
	32501	57788	86452	119573			LINR	-0.05816	0.12702		0.99846	
131 Methyl Acrylate	+++++	1181	2072	3454	7354	31993						
	86917	176642	277014	385399			LINR	0.01499	0.41246		0.99948	

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Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
132 n-Butanol	+++++	614	851	1478	3386	14625					
	42203	92092	150194	214255			LINR	1.11510	0.01141		0.99718
133 Ethyl Acrylate	+++++	1.08835	0.85355	0.78759	0.69145	0.75721					
	0.80882	0.83178	0.88783	0.89511			AVRG		0.84463		13.21731
134 Cyclohexanone	+++++	1015	1673	2636	5950	27032					
	74333	134205	228370	325494			QUAD	-0.36540	48.99643	-4.43714	0.99813
135 1,4-Dioxane	178	421	475	711	1522	6391					
	16646	31952	53042	70775			LINR	0.01585	0.00382		0.99839
136 n-Hexane	+++++	715	1533	1625	6717	24049					
	68438	135314	222995	291830			LINR	0.01286	0.31910		0.99819
137 n-Pentane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
138 Freon TF	+++++	0.22746	0.27604	0.16064	0.26621	0.24099					
	0.25697	0.25114	0.26991	0.26071			AVRG		0.24556		14.32440

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Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
146 Methyl Acetate	+++++	+++++	1979	4003	8440	30705						
	81985	163229	236899	326381			LINR	-0.03044	0.35029		0.99963	
147 Methylcyclohexane	+++++	0.69981	0.58628	0.51876	0.46851	0.51904						
	0.56393	0.58017	0.61921	0.62100			AVRG		0.57519		11.91254	
149 Isopropyl alcohol	+++++	1929	2536	4239	9755	41045						
	107191	210042	335539	464562			LINR	0.15094	0.02482		0.99917	
152 Amyl alcohol	+++++	+++++	+++++	0.01137	0.00759	0.00857						
	0.00779	0.00872	0.00888	0.00888			AVRG		0.00883		13.97823	<-
150 Allyl alcohol	+++++	715	1533	1625	6717	24049						
	68438	135314	222995	291830			LINR	0.25717	0.01595		0.99819	
151 4-Methyl-2-pentanol	+++++	5488	6679	12146	32882	160068						
	434678	933229	1550800	2197622			LINR	1.12807	0.08148		0.99716	
148 Tert-butyl alcohol	+++++	2487	3358	5671	13064	50600						
	131660	261734	415397	581208			LINR	0.17537	0.03093		0.99911	

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139 Diethyl ether	+++++	849	1272	2314	5410	20646					
	54574	106371	167293	230475			LINR	-0.00153	0.24668		0.99951
140 1,3-Butadiene	+++++	546	751	979	3506	13426					
	35678	71920	115416	155339			LINR	0.00992	0.16801		0.99920
141 Cyclohexane	+++++	+++++	+++++	5707	12503	34880					
	96337	190312	310874	417740			LINR	0.00494	0.45052		0.99832
142 Tetrahydrofuran	+++++	+++++	920	1871	3455	9707					
	28656	55300	87502	+++++			LINR	-0.01920	0.06386		0.99833
143 1-Chlorobutane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
144 Nitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
145 alpha-Methylstyrene	+++++	0.58915	0.55709	0.50810	0.49622	0.54644					
	0.66325	0.67660	0.72115	0.72101			AVRG		0.60878		14.52331

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153 Tetraethyl lead	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
154 2,3-Dichlorobutane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
155 2-Pentanone	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
156 Diisopropyl ether	+++++	4355	6186	11586	22824	91920						
	241287	493317	763018	1061760			LINR	0.00475	1.13458		0.99969	
157 n-Heptane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
158 Dichlorofluoromethane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
159 Propylene oxide	+++++	+++++	0.03543	0.02274	0.02646	0.02997						
	0.02774	0.02597	0.02910	0.02697			AVRG		0.02805		13.17317	

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	50.0000 Level 7	100.0000 Level 8	150.0000 Level 9	200.0000 Level 10								
160 2-Methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
161 3-Methyl-1-butanol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
162 Butyl acrylate	+++++	0.59699	0.46298	0.43841	0.40502	0.42632						
	0.46563	0.48604	0.56746	0.59338			AVRG		0.49358		14.90457	
163 Butyl methacrylate	+++++	1113	1854	3207	8265	32529						
	83010	165827	275621	396264			QUAD	-0.01762	2.05819	-0.16922	0.99942	
164 Dicyclopentadiene	+++++	4397	6558	15708	34343	135389						
	352309	722443	1167216	1582575			LINR	0.01916	2.42377		0.99876	
165 4-Vinyl-1-cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
166 1,2,3-Trimethylbenzene	+++++	2858	4308	8207	19030	85948						
	240306	487628	772417	1038910			LINR	0.01779	1.60085		0.99934	

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167 Ethanol	+++++	312	550	938	2209	7529					
	19912	37556	60125	+++++			LINR	-0.22095	0.00438		0.99821
168 1-Propanol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
170 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
172 tert-Butyl formate	+++++	1788	2752	4441	11066	46037					
	129054	268682	+++++	+++++			LINR	0.01095	0.29899		0.99977
173 3,3-Dimethyl-1-butanol	+++++	2446	3697	12346	18250	74716					
	162034	353441	541267	+++++			LINR	-0.13782	0.02549		0.99914
174 tert-Amyl methyl ether	+++++	2784	4200	14011	23701	104672					
	251431	513237	790739	1115809			LINR	0.00885	1.02822		0.99937
175 tert-Butyl ethyl ether	+++++	2907	4567	13413	24076	101817					
	243854	511830	765367	1079867			LINR	0.00315	0.99689		0.99973

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Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
176 tert-Amyl alcohol	+++++	1788	2162	8912	15009	61784						
	141023	319726	476457	+++++			LINR	0.11251	0.03057		0.99917	
177 Dimethyl ether	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
178 Ethylene oxide	+++++	+++++	4017	6470	17362	70538						
	290775	487526	638320	796045			QUAD	0.13555	0.91637	0.40187	0.99809	
179 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
180 1-Methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
181 2-Furfural	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
182 Epichlorohydrin	+++++	232	238	526	1322	6197						
	17061	38464	63964	+++++			QUAD	0.02537	77.08299	-85.11137	0.99997	

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183 2-Methylpropane(1)	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
(2)	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
184 Cyclopentane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
185 Isoprene	+++++	+++++	0.08494	0.09878	0.07067	0.08008						
	0.08237	0.08205	0.08649	0.08480			AVRG		0.08377		9.30413	<-
186 Isopentane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
187 n-Amyl acetate	+++++	+++++	0.51069	0.42856	0.40924	0.41217						
	0.46187	0.47428	0.50814	0.51939			AVRG		0.46554		9.68398	<-
188 Isopropyl acetate	+++++	3037	4470	8161	19318	76293						
	228388	465647	714858	1008682			QUAD	0.00617	1.41083	-0.02795	0.99983	

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	50.0000 Level 7	100.0000 Level 8	150.0000 Level 9	200.0000 Level 10								
189 n-Butyl acetate	+++++	0.38978	0.42061	0.36060	0.31928	0.31801						
	0.36526	0.37636	0.39229	0.42334			AVRG		0.37395		10.17457	
190 Propanal	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
191 n-Buteraldehyde	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
192 Isobuteraldehyde	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
193 2-Ethyl-1-hexanol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
194 Acetaldehyde	+++++	+++++	1886	2016	6710	24633						
	66813	131432	195750	285245			LINR	0.02212	0.07523		0.99880	<-
195 Methyl Amyl Ketone	+++++	+++++	+++++	0.67002	0.43631	0.50409						
	0.46604	0.48766	0.50383	0.52789			AVRG		0.51369		14.60322	<-

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	50.0000 Level 7	100.0000 Level 8	150.0000 Level 9	200.0000 Level 10								
196 2-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
197 3-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
198 Methylcyclopentane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
199 1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
200 Dimethyl Disulfide	+++++	271	446	946	2476	12285						
	43586	129891	+++++	+++++			QUAD	0.02192	7.54065	-6.89821	0.99876	
201 1-Butene(1)	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
(2)	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-

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202 Isobutylene	+++++	0.18395	0.15111	0.13872	0.16668	0.16104					
	0.16170	0.16563	0.17266	0.17015			AVRG		0.16352		7.90889
203 2-Ethylhexyl Acrylate	+++++	699	1138	2165	4398	24452					
	84092	193513	339518	+++++			QUAD	0.02317	1.96357	-0.26657	0.99930
204 Tetrahydrothiophene	+++++	0.27728	0.25897	0.18952	0.20353	0.22569					
	0.24567	0.23493	0.24879	0.24882			AVRG		0.23702		11.52179
205 sec-Butyl Ether	+++++	0.83904	0.68283	0.59501	0.57793	0.54143					
	0.53229	0.53499	0.59644	0.61057			AVRG		0.61228		15.86880
M 94 1,2-Dichloroethylene (total)	+++++	0.53478	0.42418	0.36337	0.35138	0.31902					
	0.34036	0.33193	0.34131	0.33864			AVRG		0.37166		18.34438
M 95 Xylenes (total)	+++++	0.43836	0.38695	0.33887	0.35745	0.37383					
	0.41876	0.41126	0.41977	0.41415			AVRG		0.39549		8.36729
$ 30 Dibromofluoromethane	+++++	+++++	0.44665	0.40784	0.35920	0.34099					
	0.33751	0.32945	0.32888	0.33265			AVRG		0.36040		12.10076

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Compound	0.2500000 Level 1	0.5000000 Level 2	1.0000 Level 3	2.0000 Level 4	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	50.0000 Level 7	100.0000 Level 8	150.0000 Level 9	200.0000 Level 10							
$ 35 1,2-Dichloroethane-d4	+++++	+++++	+++++	0.56282	0.45112	0.42576					
	0.42461	0.40489	0.40380	0.40267			AVRG		0.43938		13.00210
$ 48 Toluene-d8	+++++	+++++	1.27939	1.13614	0.95852	0.93717					
	0.94227	0.91237	0.92898	0.93795			AVRG		1.00410		13.14965
$ 69 4-Bromofluorobenzene	+++++	+++++	+++++	0.45154	0.35349	0.35181					
	0.35461	0.34020	0.34434	0.34692			AVRG		0.36327		10.80938

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 03-JUN-2024 17:24

End Cal Date : 05-JUN-2024 22:12
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\8260C.m
Last Edit : 21-Jun-2024 17:31 r.patel

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Linear	Amt = b + Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

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INITIAL CALIBRATION DATA

Start Cal Date : 03-JUN-2024 17:24
End Cal Date : 08-JUN-2024 19:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240608.b\8260C.m
Last Edit : 21-Jun-2024 11:42 r.patel

Calibration File Names:
Level 1: \\NAHSTWS005\Target\chem\voa9.i\U240608.b\C060802.D
Level 2: \\NAHSTWS005\Target\chem\voa9.i\U240608.b\C060803.D
Level 3: \\NAHSTWS005\Target\chem\voa9.i\U240608.b\C060804.D
Level 4: \\NAHSTWS005\Target\chem\voa9.i\U240608.b\C060805.D
Level 5: \\NAHSTWS005\Target\chem\voa9.i\U240608.b\C060806.D
Level 6: \\NAHSTWS005\Target\chem\voa9.i\U240608.b\C060807.D
Level 7: \\NAHSTWS005\Target\chem\voa9.i\U240608.b\C060808.D
Level 8: \\NAHSTWS005\Target\chem\voa9.i\U240608.b\C060809.D
Level 9: \\NAHSTWS005\Target\chem\voa9.i\U240608.b\C060810.D
Level 10: \\NAHSTWS005\Target\chem\voa9.i\U240608.b\C060811.D

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
2 Dichlorodifluoromethane	+++++ / 89571	803 / 172576	1300 / 274242	4675 / 371413	7835	37490	QUAD	-0.00806	3.21872	-0.14469	0.99980
3 Chloromethane	+++++ / 201659	5310 / 375166	7086 / 548648	14542 / 705941	21208	85176	QUAD	-0.01727	1.31597	0.11172	0.99998
4 Propionitrile	+++++ / 132035	2985 / 265719	4553 / 388765	9170 / 535148	12560	54324	LINR	-0.16161	0.04718		0.99959

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 03-JUN-2024 17:24
End Cal Date : 08-JUN-2024 19:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240608.b\8260C.m
Last Edit : 21-Jun-2024 11:42 r.patel

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
5 Vinyl Chloride	+++++	1489	2408	7045	10774	50721					
	118181	230936	364928	497446			QUAD	-0.01383	2.43955	-0.09858	0.99984
6 Bromomethane	+++++	1656	2080	4227	5733	23285					
	54865	105037	168740	236650			QUAD	-0.03729	5.58611	-0.93863	0.99975
7 Chloroethane	+++++	1314	1948	5059	7077	32633					
	78463	151176	234954	314639			QUAD	-0.01365	3.62892	-0.04455	0.99989
8 Trichlorofluoromethane	+++++	0.41490	0.42949	0.64586	0.43307	0.52045					
	0.50087	0.48362	0.50326	0.50294			AVRG		0.49272		14.02426
9 Acrolein	+++++	372	535	1308	766	3160					
	7769	17977	26754	36272			QUAD	-0.05042	66.08533	-31.10799	0.99832
10 Acetone	+++++	4473	5961	8712	10435	31503					
	72946	141231	203859	254391			QUAD	-0.08122	6.89500	2.14449	0.99951
11 1,1-Dichloroethene	+++++	0.36908	0.30478	0.38953	0.26169	0.30734					
	0.28808	0.28040	0.28997	0.29498			AVRG		0.30954		13.59388

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ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 03-JUN-2024 17:24
End Cal Date : 08-JUN-2024 19:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240608.b\8260C.m
Last Edit : 21-Jun-2024 11:42 r.patel

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
12 Isobutyl Alcohol	+++++	4715	7552	16296	22673	108570						
	270130	538841	803266	1144805			QUAD	-0.35118	21.90860	-0.51020	0.99941	
13 Acetonitrile	+++++	2171	2898	5426	9600	43313						
	105761	211458	315818	422788			QUAD	-0.05997	25.80868	0.53939	0.99994	
14 Allyl Chloride	+++++	5612	7177	14227	23563	102139						
	249558	497912	738593	997736			QUAD	-0.01098	1.10944	0.00612	0.99987	
15 Iodomethane	+++++	1192	1593	2955	3946	19540						
	60228	143674	+++++	+++++			QUAD	0.00251	10.51986	-5.54697	0.99916	<-
16 Acrylonitrile	+++++	1776	2148	5144	6607	28607						
	69792	135951	200817	275471			QUAD	-0.04570	8.26554	-0.02555	0.99966	
17 Methylene Chloride	+++++	2302	3211	7368	9345	41418						
	96985	183724	280904	381367			QUAD	-0.02832	3.02553	-0.03799	0.99978	
18 Methyl tert-butyl ether	+++++	5205	7024	13936	22492	96380						
	237138	464875	695220	943964			QUAD	-0.01474	1.19470	0.00083	0.99987	

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INITIAL CALIBRATION DATA

Start Cal Date : 03-JUN-2024 17:24
End Cal Date : 08-JUN-2024 19:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240608.b\8260C.m
Last Edit : 21-Jun-2024 11:42 r.patel

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
19 Carbon Disulfide	+++++	1.06684	0.83852	1.18989	0.73550	0.89226					
	0.87167	0.86023	0.89233	0.90299			AVRG		0.91669		14.57042
20 trans-1,2-Dichloroethene	+++++	1290	2009	5088	8031	36262					
	87563	166840	260747	352325			QUAD	-0.01451	3.31259	-0.08936	0.99984
21 Vinyl Acetate	+++++	1667	3356	6627	8466	40722					
	101478	194171	304131	409844			QUAD	-0.02845	5.70465	-0.14246	0.99986
22 1,1-Dichloroethane	+++++	2515	4429	10725	15393	69328					
	167423	321607	497285	666457			QUAD	-0.01420	1.70313	-0.00515	0.99991
23 Chloroprene	+++++	0.65230	0.53120	0.67556	0.44562	0.54501					
	0.51991	0.51598	0.53099	0.53627			AVRG		0.55032		12.86779
24 2-Butanone	+++++	3411	4496	7896	10346	40847					
	97808	189755	292571	390232			QUAD	-0.05848	5.84529	-0.04026	0.99995
25 Methacrylonitrile	+++++	1203	1957	3949	5403	23303					
	58662	126775	177050	255896			QUAD	-0.01395	4.79850	-0.39699	0.99807

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INITIAL CALIBRATION DATA

Start Cal Date : 03-JUN-2024 17:24
End Cal Date : 08-JUN-2024 19:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240608.b\8260C.m
Last Edit : 21-Jun-2024 11:42 r.patel

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
26 2,2-Dichloropropane	+++++	0.49716	0.47401	0.65352	0.40374	0.47631					
	0.46336	0.45996	0.47570	0.48141			AVRG		0.48724		13.86203
27 cis-1,2-Dichloroethene	+++++	1634	2675	6697	9251	42836					
	105064	201546	312923	423085			QUAD	-0.01413	2.74893	-0.05547	0.99988
28 Chloroform	+++++	2241	4295	10632	14876	70130					
	169365	326260	502518	677817			QUAD	-0.01312	1.68879	-0.01034	0.99989
29 Bromochloromethane	+++++	760	1398	3255	4522	20996					
	51318	98687	151051	203508			QUAD	-0.01345	5.56616	-0.03090	0.99991
31 1,1,1-Trichloroethane	+++++	0.52530	0.42279	0.62815	0.40097	0.50922					
	0.48853	0.48651	0.50424	0.51181			AVRG		0.49750		12.97457
32 1,1-Dichloropropene	+++++	1788	2322	6552	10906	52965					
	129445	250790	396356	539205			QUAD	-0.00263	3.15728	-0.10266	0.99970
33 1,2-Dichloroethane	+++++	2309	3762	8773	11740	56929					
	137032	260958	397514	537007			LINR	-0.01711	0.32879		0.99980

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INITIAL CALIBRATION DATA

Start Cal Date : 03-JUN-2024 17:24
End Cal Date : 08-JUN-2024 19:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240608.b\8260C.m
Last Edit : 21-Jun-2024 11:42 r.patel

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
34 Carbon Tetrachloride	+++++	0.30322	0.24630	0.32612	0.21111	0.26633					
	0.26679	0.27188	0.29296	0.29213			AVRG		0.27520		12.24407
37 Benzene	+++++	5600	9797	23436	34643	160031					
	387106	736706	1152551	1557511			QUAD	-0.00967	1.06162	-0.00342	0.99969
38 Trichloroethene	+++++	1313	2304	5607	8330	41907					
	99193	190526	301456	406218			LINR	-0.00060	0.24881		0.99953
39 Bromodichloromethane	+++++	0.33258	0.31743	0.38122	0.21291	0.27787					
	0.28903	0.29409	0.30647	0.30708			AVRG		0.30207		14.91819
40 Methyl Methacrylate	+++++	972	1156	2553	2852	14096					
	35102	73669	111787	160768			QUAD	-0.01688	8.23796	-2.09368	0.99961
41 2-Chloroethylvinyl ether	+++++	407	765	1652	2332	14000					
	43982	100670	183283	281412			QUAD	0.08487	17.12868	-8.34402	0.99843
42 1,2-Dichloropropane	+++++	1712	2716	6422	9081	42792					
	104685	202776	312951	425944			QUAD	-0.00820	3.89587	-0.05562	0.99986

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INITIAL CALIBRATION DATA

Start Cal Date : 03-JUN-2024 17:24
End Cal Date : 08-JUN-2024 19:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240608.b\8260C.m
Last Edit : 21-Jun-2024 11:42 r.patel

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
43 2-Nitropropane	+++++	369	426	1117	1651	7454					
	21876	48139	74577	106540			QUAD	0.01343	12.51105	-5.28718	0.99958
44 Dibromomethane	+++++	934	1465	3841	5206	24532					
	60845	117419	180028	244943			QUAD	-0.00723	6.69727	-0.03499	0.99988
45 4-Methyl-2-Pentanone	+++++	3621	5437	12085	16817	78416					
	198096	402704	634940	876741			QUAD	-0.00241	3.61203	-0.09615	0.99976
46 cis-1,3-Dichloropropene	+++++	0.37748	0.34368	0.44843	0.25662	0.35145					
	0.37735	0.38819	0.40629	0.40993			AVRG		0.37327		14.45820
49 Ethyl Methacrylate	+++++	2351	3256	6861	10148	47837					
	122860	258657	405729	567961			QUAD	0.00293	3.23178	-0.26311	0.99985
50 Toluene	+++++	5156	9443	22774	33450	164634					
	397163	762794	1182635	1598236			QUAD	-0.00430	0.90351	0.00626	0.99972
51 trans-1,3-Dichloropropene	+++++	0.30075	0.27588	0.31857	0.19945	0.27854					
	0.30566	0.31743	0.33461	0.34138			AVRG		0.29692		14.41655

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 03-JUN-2024 17:24
End Cal Date : 08-JUN-2024 19:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240608.b\8260C.m
Last Edit : 21-Jun-2024 11:42 r.patel

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
52 2-Hexanone	+++++	3902	5740	10807	15052	56512						
	130278	255452	384475	543557			QUAD	-0.07112	5.80953	-0.17697	0.99990	
53 1,1,2-Trichloroethane	+++++	1037	2156	4810	6651	31888						
	76513	146326	224338	304108			QUAD	-0.00856	4.70945	0.23655	0.99980	
54 1,3-Dichloropropane	+++++	2385	4418	9763	14177	67973						
	165166	315948	489975	662675			QUAD	-0.00634	2.18503	0.03393	0.99972	
55 Dibromochloromethane	+++++	0.24271	0.22155	0.27331	0.16070	0.22903						
	0.25516	0.25765	0.27167	0.26961			AVRG		0.24238		14.75862	
56 Tetrachloroethene	+++++	0.23502	0.22363	0.29005	0.18408	0.23170						
	0.21729	0.21250	0.22042	0.21631			AVRG		0.22567		12.49540	<-
57 1,2-Dibromoethane	+++++	1157	2088	4910	6931	35066						
	90199	174034	272353	370054			QUAD	0.00131	4.00584	0.00475	0.99969	
58 1-Chlorohexane	+++++	4533	4765	7196	9549	32844						
	74545	152000	246802	340925			QUAD	-0.04428	5.59706	-0.94011	0.99951	

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 03-JUN-2024 17:24
End Cal Date : 08-JUN-2024 19:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240608.b\8260C.m
Last Edit : 21-Jun-2024 11:42 r.patel

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
59 Chlorobenzene	+++++	3861	6818	15894	23071	105884						
	255209	490713	755768	1028435			QUAD	-0.00918	1.41873	0.01124	0.99981	
60 1,1,1,2-Tetrachloroethane	+++++	1076	1863	4687	6571	34334						
	89311	176912	278371	382854			LINR	0.01429	0.25721		0.99966	
61 Ethylbenzene	+++++	0.43160	0.40486	0.50335	0.30331	0.37222						
	0.36774	0.35339	0.36891	0.36338			AVRG		0.38542		14.62903	
62 m,p-Xylenes	+++++	0.52839	0.48113	0.59178	0.37841	0.47611						
	0.46601	0.45293	0.46823	0.45881			AVRG		0.47798		12.07594	
63 o-Xylene	+++++	0.50876	0.49450	0.58637	0.37141	0.46308						
	0.44769	0.43519	0.45198	0.44072			AVRG		0.46663		12.72346	
64 Styrene	+++++	0.79539	0.75527	0.91040	0.57299	0.73323						
	0.73469	0.72622	0.75336	0.74566			AVRG		0.74747		11.60564	
65 cis-1,4-Dichloro-2-butene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-

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INITIAL CALIBRATION DATA

Start Cal Date : 03-JUN-2024 17:24
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Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240608.b\8260C.m
Last Edit : 21-Jun-2024 11:42 r.patel

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
66 Bromoform	+++++	522	985	2382	3394	18964						
	53982	116190	189903	265408			QUAD	0.02456	6.38702	-1.19405	0.99933	<-
67 Isopropylbenzene	+++++	1.07819	1.05759	1.38322	0.92133	1.14512						
	1.13299	1.10051	1.13730	1.11227			AVRG		1.11873		10.76010	
68 1,1,2,2-Tetrachloroethane	+++++	1803	3597	8027	10999	52002						
	124694	241806	372465	507704			QUAD	-0.01057	1.54930	0.00143	0.99977	
71 1,2,3-Trichloropropane	+++++	1500	2905	7618	10660	50983						
	126018	252871	397780	502274			LINR	-0.01145	0.65852		0.99720	
72 trans-1,4-Dichloro-2-butene	+++++	460	815	1566	2410	11126						
	27332	55253	81574	116660			QUAD	-0.01060	13.44700	-1.83784	0.99979	
73 n-Propylbenzene	+++++	2.45543	2.38675	2.87628	1.97170	2.48685						
	2.46993	2.34705	2.43741	2.39929			AVRG		2.42563		9.49394	
74 Bromobenzene	+++++	1374	2721	6254	9372	45051						
	112392	215240	334140	452968			QUAD	-0.00408	1.71961	0.00713	0.99966	

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INITIAL CALIBRATION DATA

Start Cal Date : 03-JUN-2024 17:24
End Cal Date : 08-JUN-2024 19:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240608.b\8260C.m
Last Edit : 21-Jun-2024 11:42 r.patel

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
75 1,3,5-Trimethylbenzene	+++++	2794	5566	13754	22481	125421					
	317171	634215	981415	1332572			QUAD	0.00951	0.58843	-0.00015	0.99976
76 2-Chlorotoluene	+++++	3446	7008	15427	23903	113926					
	279659	550332	842207	1141231			QUAD	-0.00205	0.67469	0.00243	0.99982
77 4-Chlorotoluene	+++++	2.13183	2.04511	2.32597	1.44310	1.77684					
	1.75130	1.67353	1.72725	1.69079			AVRG		1.84064		14.82233
78 tert-Butylbenzene	+++++	1.29493	1.32142	1.78573	1.17472	1.49767					
	1.48046	1.42605	1.48884	1.45092			AVRG		1.43564		11.87473
79 1,2,4-Trimethylbenzene	+++++	1.93399	1.84075	2.03878	1.24142	1.60278					
	1.66489	1.64553	1.71659	1.68525			AVRG		1.70778		13.30832
80 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
81 sec-Butylbenzene	+++++	1.76975	1.80485	2.27154	1.56626	2.02122					
	2.00088	1.95819	2.02877	2.00578			AVRG		1.93636		10.32180

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Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
82 p-Isopropyltoluene	+++++	1.63966	1.58809	1.92267	1.31066	1.65223						
	1.70922	1.69217	1.76505	1.75096			AVRG		1.67008		9.89635	
83 1,3-Dichlorobenzene	+++++	2641	5026	10979	16437	80366						
	194300	379290	582084	783843			LINR	-0.01100	1.00049		0.99967	
84 1,4-Dichlorobenzene	+++++	3268	5461	12583	18267	83617						
	203094	392684	605903	815577			QUAD	-0.00755	0.93840	0.00620	0.99968	
85 bis(2-Chloro-isopropyl)ether	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
86 Benzyl Chloride	+++++	3455	4813	9035	11227	46818						
	117841	249861	415227	606331			QUAD	-0.01234	3.12341	-0.41143	0.99967	
87 n-Butylbenzene	+++++	1.65376	1.65673	1.66048	1.20703	1.47951						
	1.49855	1.49189	1.55374	1.54206			AVRG		1.52708		9.21252	
88 1,2-Dichlorobenzene	+++++	2698	5128	11040	17105	80379						
	190708	371804	568759	770492			QUAD	-0.00752	0.99648	0.00655	0.99980	

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Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
89 1,2-Dibromo-3-Chloropropane	+++++	180	329	823	1134	5718					
	14911	32231	51101	74132			QUAD	0.00676	12.74405	-5.72340	0.99988
90 1,2,4-Trichlorobenzene	+++++	0.82281	0.81530	0.90738	0.55688	0.65750					
	0.67041	0.66634	0.68733	0.68499			AVRG		0.71877		14.99229
91 Hexachlorobutadiene	+++++	673	1636	2493	4469	21835					
	52880	110456	172845	234979			QUAD	0.00479	3.46699	-0.11750	0.99962
92 Naphthalene	+++++	3866	6560	14606	22000	113113					
	291932	588697	902075	1256104			QUAD	0.00274	0.65589	-0.00461	0.99992
93 1,2,3-Trichlorobenzene	+++++	1477	2879	6073	9722	46045					
	113499	227090	349701	483444			QUAD	-0.00334	1.68967	-0.02477	0.99990
130 Ethyl Acetate	+++++	1183	1657	2641	3920	15067					
	34955	63828	88575	122054			QUAD	-0.04507	8.47303	2.18034	0.99829
131 Methyl Acrylate	+++++	2571	3480	6560	9063	42408					
	108989	218275	325958	449781			LINR	-0.00155	0.39661		0.99965

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Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
132 n-Butanol	+++++	1128	1556	3293	4530	18655					
	48564	106979	165482	237202			QUAD	-0.10896	114	-22.86008	0.99968
133 Ethyl Acrylate	+++++	4141	5055	9647	17998	87175					
	225036	464973	695531	955687			QUAD	0.00233	1.22233	-0.01342	0.99980
134 Cyclohexanone	+++++	2250	3069	5886	8841	34973					
	88668	182927	265864	338274			QUAD	0.21507	36.47464	5.42087	0.99879
135 1,4-Dioxane	650	1051	1051	1868	2390	8784					
	20516	41327	60418	84901			QUAD	-0.86786	287	-59.46189	0.99942
136 n-Hexane	+++++	0.33048	0.25682	0.36278	0.28717	0.35362					
	0.32781	0.32602	0.33061	0.33400			AVRG		0.32326		10.05362
137 n-Pentane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
138 Freon TF	+++++	0.26121	0.22605	0.34811	0.26540	0.30687					
	0.28761	0.27877	0.29066	0.29553			AVRG		0.28447		11.83818

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Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
146 Methyl Acetate	+++++	+++++	2509	5390	7281	31746						
	78162	149302	228072	305428			LINR	-0.02239	0.27062		0.99991	
147 Methylcyclohexane	+++++	3965	4860	9166	17998	87175						
	225036	464973	695531	955687			QUAD	0.00834	1.72433	-0.00821	0.99991	
149 Isopropyl alcohol	+++++	3251	4445	8470	12499	50768						
	124313	247269	353198	503670			QUAD	-0.59093	47.75912	-1.35966	0.99873	
152 Amyl alcohol	+++++	+++++	+++++	0.01137	0.00759	0.00857						
	0.00779	0.00872	0.00888	0.00888			AVRG		0.00883		13.97823	<-
150 Allyl alcohol	+++++	0.01652	0.01284	0.01814	0.01436	0.01768						
	0.01639	0.01630	0.01653	0.01670			AVRG		0.01616		10.05362	
151 4-Methyl-2-pentanol	+++++	9777	13607	28932	42218	203158						
	520713	1107455	1684474	2421795			QUAD	-0.00294	15.46158	-0.32888	0.99987	
148 Tert-butyl alcohol	+++++	4383	6211	11908	16278	65129						
	157363	313440	461428	648589			QUAD	-0.61835	37.40502	-0.99521	0.99944	

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Compound	0.2500000 Level 1	0.5000000 Level 2	1.0000 Level 3	2.0000 Level 4	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	50.0000 Level 7	100.0000 Level 8	150.0000 Level 9	200.0000 Level 10							
139 Diethyl ether	+++++	1513	2012	3962	7007	28370					
	68509	136945	201448	276118			QUAD	-0.01650	4.11278	-0.01167	0.99970
140 1,3-Butadiene	+++++	0.19843	0.17447	0.24619	0.16667	0.19290					
	0.18221	0.17661	0.18392	0.18525			AVRG		0.18963		12.25409
141 Cyclohexane	+++++	+++++	+++++	10495	14685	55925					
	127015	247468	390553	528510			QUAD	-0.04687	2.32390	-0.09462	0.99986
142 Tetrahydrofuran	+++++	+++++	2345	2491	4079	14036					
	35828	67599	99816	+++++			QUAD	-0.05216	15.37614	4.32125	0.99985
143 1-Chlorobutane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
144 Nitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
145 alpha-Methylstyrene	+++++	0.74313	0.64817	0.77985	0.47219	0.60334					
	0.65065	0.66934	0.71528	0.72091			AVRG		0.66698		13.65909

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153 Tetraethyl lead	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
154 2,3-Dichlorobutane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
155 2-Pentanone	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
156 Diisopropyl ether	+++++	6269	8398	16450	27297	122616						
	305157	602070	898835	1221759			QUAD	-0.01019	0.92251	0.00038	0.99986	
157 n-Heptane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
158 Dichlorofluoromethane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
159 Propylene oxide	+++++	+++++	+++++	1292	1931	6037						
	14947	32702	45840	62151			LINR	-0.06006	0.02760		0.99827	<-

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Compound	0.2500000 Level 1	0.5000000 Level 2	1.0000 Level 3	2.0000 Level 4	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	50.0000 Level 7	100.0000 Level 8	150.0000 Level 9	200.0000 Level 10								
160 2-Methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
161 3-Methyl-1-butanol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
162 Butyl acrylate	+++++	2872	4554	9475	14905	62317						
	154594	333335	534852	787919			QUAD	-0.00559	2.35213	-0.21798	0.99991	
163 Butyl methacrylate	+++++	1929	2364	6327	8831	44354						
	94798	166635	250327	375680			QUAD	-0.05186	2.41239	-0.13623	0.99727	
164 Dicyclopentadiene	+++++	8246	8911	19920	39437	175184						
	425929	858937	1273159	1750037			LINR	-0.00882	2.22383		0.99994	
165 4-Vinyl-1-cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
166 1,2,3-Trimethylbenzene	+++++	5188	6258	12347	22223	106847						
	282625	570916	844686	1143282			QUAD	0.00943	0.64278	0.00750	0.99988	

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167 Ethanol	+++++	677	782	1603	2415	8933					
	22920	44675	66142	+++++			QUAD	-0.26067	237	72.13027	0.99987
168 1-Propanol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
170 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
172 tert-Butyl formate	+++++	3591	5060	11113	15073	65150					
	142748	289706	+++++	+++++			QUAD	-0.04808	3.88604	-0.04955	0.99918
173 3,3-Dimethyl-1-butanol	+++++	2446	3697	12346	18250	74716					
	162034	353441	541267	+++++			QUAD	-0.45293	42.30196	-2.11324	0.99958
174 tert-Amyl methyl ether	+++++	2784	4200	14011	23701	104672					
	251431	513237	790739	1115809			QUAD	-0.01274	1.05235	-0.02103	0.99989
175 tert-Butyl ethyl ether	+++++	2907	4567	13413	24076	101817					
	243854	511830	765367	1079867			QUAD	-0.01113	1.05777	-0.01490	0.99995

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176 tert-Amyl alcohol	+++++	1788	2162	8912	15009	61784						
	141023	319726	476457	+++++			QUAD	-0.14174	34.90979	-1.27869	0.99949	
177 Dimethyl ether	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
178 Ethylene oxide	+++++	+++++	9170	15876	21724	112347						
	280500	621795	850228	1079010			QUAD	0.07153	1.52124	0.13722	0.99793	
179 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
180 1-Methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
181 2-Furfural	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
182 Epichlorohydrin	+++++	348	595	1289	1723	7157						
	21083	43618	69643	+++++			QUAD	-0.00002	80.36392	-68.26736	0.99965	

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183 2-Methylpropane(1)	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
(2)	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
184 Cyclopentane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
185 Isoprene	+++++	158	385	1117	2013	9552						
	22207	44760	68555	92095			QUAD	-0.00298	12.32090	-0.37676	0.99993	
186 Isopentane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
187 n-Amyl acetate	+++++	2156	4654	9925	14761	64383						
	147428	298851	485687	696503			QUAD	-0.01759	2.54090	-0.21210	0.99975	
188 Isopropyl acetate	+++++	4363	7552	16296	22823	109232						
	270130	534940	797496	1138149			QUAD	-0.01337	1.55795	-0.03957	0.99977	

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	50.0000 Level 7	100.0000 Level 8	150.0000 Level 9	200.0000 Level 10								
189 n-Butyl acetate	+++++	1939	3739	9270	12372	60340						
	148818	306708	492026	695120			QUAD	-0.00208	2.43776	-0.16080	0.99980	
190 Propanal	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
191 n-Buteraldehyde	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
192 Isobuteraldehyde	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
193 2-Ethyl-1-hexanol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
194 Acetaldehyde	+++++	1318	2445	7034	10599	58954						
	95013	184067	266240	331683			QUAD	-0.06668	9.58908	3.35794	0.99827	
195 Methyl Amyl Ketone	+++++	+++++	+++++	0.67002	0.43631	0.50409						
	0.46604	0.48766	0.50383	0.52789			AVRG		0.51369		14.60322	<-

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Compound	0.2500000 Level 1	0.5000000 Level 2	1.0000 Level 3	2.0000 Level 4	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	50.0000 Level 7	100.0000 Level 8	150.0000 Level 9	200.0000 Level 10								
196 2-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
197 3-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
198 Methylcyclopentane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
199 1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
200 Dimethyl Disulfide	+++++	638	1002	1946	3542	19394						
	66670	191941	+++++	+++++			QUAD	0.02016	6.25311	-4.79016	0.99857	
201 1-Butene(1)	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
(2)	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 03-JUN-2024 17:24
End Cal Date : 08-JUN-2024 19:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240608.b\8260C.m
Last Edit : 21-Jun-2024 11:42 r.patel

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
202 Isobutylene	+++++	735	574	1107	3664	18310					
	45089	92651	136181	181265			QUAD	0.01168	5.77634	0.62469	0.99982
203 2-Ethylhexyl Acrylate	+++++	2097	3052	4181	7463	38246					
	109606	242617	376546	+++++			QUAD	0.01371	1.73274	-0.11702	0.99946
204 Tetrahydrothiophene	+++++	1751	2483	5632	8029	38650					
	101997	200882	299712	408981			QUAD	0.00324	3.44523	0.17738	0.99992
205 sec-Butyl Ether	+++++	4241	5368	6713	16698	76512					
	186288	391702	603042	859513			QUAD	-0.00103	1.92063	-0.08067	0.99995
M 94 1,2-Dichloroethylene (total)	+++++	2924	4684	11785	17282	79098					
	192627	368386	573670	775410			LINR	-0.01266	0.34283		0.99980
M 95 Xylenes (total)	+++++	0.46893	0.43203	0.52334	0.33719	0.42449					
	0.41115	0.40210	0.41760	0.41308			AVRG		0.42555		11.82917
$ 30 Dibromofluoromethane	+++++	1185	3233	5769	9311	37278					
	90529	177424	267472	366201			QUAD	-0.01969	3.17898	-0.06706	0.99985

Report Date : 21-Jun-2024 11:47 Page 25

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 03-JUN-2024 17:24
End Cal Date : 08-JUN-2024 19:08
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240608.b\8260C.m
Last Edit : 21-Jun-2024 11:42 r.patel

Compound	0.2500000 Level 1	0.5000000 Level 2	1.0000 Level 3	2.0000 Level 4	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	50.0000 Level 7	100.0000 Level 8	150.0000 Level 9	200.0000 Level 10							
$ 35 1,2-Dichloroethane-d4	+++++ 110883	1756 214083	4396 316559	7535 435061	11955	46996	QUAD	-0.02808	2.62584	-0.00760	0.99962
$ 48 Toluene-d8	+++++ 338336	5383 665153	11836 999177	19959 1368379	34899	137570	QUAD	-0.01029	1.05657	0.00959	0.99998
$ 69 4-Bromofluorobenzene	+++++ 125607	2597 245160	4954 364179	7988 502075	13384	51958	QUAD	-0.01748	2.88205	0.07794	0.99998

Report Date : 21-Jun-2024 11:47 Page 26

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 03-JUN-2024 17:24

```
End Cal Date    : 08-JUN-2024 19:08
Quant Method    : ISTD
Target Version  : 4.14
Integrator      : HP RTE
Method file     : \\NAHSTWS005\Target\chem\voa9.i\U240608.b\8260C.m
Last Edit       : 21-Jun-2024 11:42 r.patel
```

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Linear	Amt = b + Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

01337793

right solutions.
right partner.

Form 6I

Initial Calibration Verification (ICV)

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24051959

Client

Bhate Environmental Associates, Inc.

Project

LHAAP-58

07/03/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder HS24051959

RunID C060814.D

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix LIQUID
Lab Smp Id VSTD050
Data Type MS DATA
File ID C060814.D
Fraction VOA
Client Smp ID VSTD050
SampleType METHSPIKE
Inj Date 08-JUN-2024 2012

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
1,1,1,2-Tetrachloroethane	50.0	49.7	99.4	80-120	
1,1,1-Trichloroethane	50.0	49.6	99.2	80-120	
1,1,2,2-Tetrachloroethane	50.0	51.0	102	80-120	
Freon TF	50.0	49.8	99.7	80-120	
Methyl acetate	50.0	52.8	106	80-120	
Cyclohexane	50.0	50.4	101	80-120	
Methylcyclohexane	50.0	48.8	97.6	80-120	
Carbon Disulfide	100	96.2	96.2	80-120	
2-Hexanone	100	102	102	80-120	
1,1,2-Trichloroethane	50.0	50.1	100	80-120	
1,1-Dichloroethane	50.0	50.8	102	80-120	
1,1-Dichloroethene	50.0	46.5	92.9	80-120	
1,1-Dichloropropene	50.0	49.2	98.5	80-120	
1,2,3-Trichlorobenzene	50.0	50.9	102	80-120	
1,2,3-Trichloropropane	50.0	51.1	102	80-120	
1,2,4-Trichlorobenzene	50.0	46.6	93.2	80-120	
1,2,4-Trimethylbenzene	50.0	49.0	97.9	80-120	
1,2-Dibromo-3-Chloropropane	50.0	52.2	104	80-120	
1,2-Dibromoethane	50.0	50.0	100	80-120	
Acrolein	100	114	114	80-120	
Acrylonitrile	100	103	103	80-120	
1,2-Dichlorobenzene	50.0	50.3	101	80-120	
1,2-Dichloroethane	50.0	50.9	102	80-120	
1,2-Dichloropropane	50.0	50.3	101	80-120	
1,3,5-Trimethylbenzene	50.0	50.4	101	80-120	
1,3-Dichlorobenzene	50.0	50.6	101	80-120	
1,3-Dichloropropane	50.0	50.6	101	80-120	
1,4-Dichlorobenzene	50.0	50.0	100	80-120	
1-Chlorohexane	50.0	47.7	95.5	80-120	
2,2-Dichloropropane	50.0	46.1	92.3	80-120	
2-Butanone	100	107	107	80-120	
2-Chloroethylvinyl ether	100	101	101	80-120	
2-Chlorotoluene	50.0	50.1	100	80-120	
4-Chlorotoluene	50.0	46.8	93.5	80-120	

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder HS24051959

RunID C060814.D

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix LIQUID
Lab Smp Id VSTD050
Data Type MS DATA
File ID C060814.D

Fraction VOA
Client Smp ID VSTD050
SampleType METHSPIKE
Inj Date 08-JUN-2024 2012

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
p-Isopropyltoluene	50.0	51.2	102	80-120	
4-Methyl-2-Pentanone	100	102	102	80-120	
Acetone	100	106	106	80-120	
Acetonitrile	500	494	98.8	80-120	
Allyl Chloride	50.0	50.8	102	80-120	
Benzene	50.0	50.3	101	80-120	
Bromobenzene	50.0	50.3	101	80-120	
Bromochloromethane	50.0	51.8	104	80-120	
Bromodichloromethane	50.0	47.9	95.8	80-120	
Bromoform	50.0	49.7	99.4	80-120	
Bromomethane	50.0	59.2	118	80-120	
Carbon Tetrachloride	50.0	47.7	95.4	80-120	
Chlorobenzene	50.0	50.0	99.9	80-120	
Chloroethane	50.0	50.1	100	80-120	
Chloroform	50.0	51.2	102	80-120	
Chloromethane	50.0	44.8	89.5	80-120	
Chloroprene	50.0	47.6	95.1	80-120	
cis-1,2-Dichloroethene	50.0	50.8	102	80-120	
cis-1,3-Dichloropropene	50.0	50.5	101	80-120	
Dibromochloromethane	50.0	52.8	106	80-120	
Dibromomethane	50.0	50.8	102	80-120	
Dichlorodifluoromethane	50.0	50.2	100	80-120	
Ethylbenzene	50.0	47.2	94.4	80-120	
Ethyl Methacrylate	50.0	50.0	100	80-120	
Iodomethane	100	139	139	80-120	*
Isobutyl Alcohol	1000	1059	106	70-130	
Propionitrile	500	519	104	70-130	
Hexachlorobutadiene	50.0	48.8	97.6	80-120	
Isopropylbenzene	50.0	50.2	100	80-120	
m,p-Xylenes	100	97.2	97.2	80-120	
Methyl tert-butyl ether	50.0	51.2	103	80-120	
Methylene Chloride	50.0	51.3	103	80-120	
Methacrylonitrile	50.0	49.6	99.2	80-120	
Methyl Methacrylate	50.0	52.3	105	80-120	

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder HS24051959

RunID C060814.D

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix LIQUID
Lab Smp Id VSTD050
Data Type MS DATA
File ID C060814.D

Fraction VOA
Client Smp ID VSTD050
SampleType METHSPIKE
Inj Date 08-JUN-2024 2012

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
n-Butylbenzene	50.0	48.6	97.3	80-120	
n-Propylbenzene	50.0	50.8	102	80-120	
Naphthalene	50.0	51.6	103	80-120	
o-Xylene	50.0	47.6	95.2	80-120	
sec-Butylbenzene	50.0	51.3	103	80-120	
Styrene	50.0	49.5	99.0	80-120	
tert-Butylbenzene	50.0	51.2	103	80-120	
Tetrachloroethene	50.0	48.4	96.8	80-120	
Toluene	50.0	50.1	100	80-120	
trans-1,2-Dichloroethene	50.0	50.9	102	80-120	
trans-1,3-Dichloropropene	50.0	51.6	103	80-120	
trans-1,4-Dichloro-2-butene	50.0	51.0	102	80-120	
Trichloroethene	50.0	50.0	100	80-120	
Trichlorofluoromethane	50.0	50.4	101	80-120	
Vinyl Acetate	100	106	106	80-120	
Vinyl Chloride	50.0	50.7	101	80-120	
Methyl Acrylate	50.0	51.0	102	80-120	
Ethyl Acrylate	50.0	50.0	100.0	80-120	
Butyl acrylate	50.0	49.8	99.6	80-120	
2-Ethylhexyl Acrylate	50.0	49.7	99.4	80-120	
Allyl alcohol	1000	979	97.9	80-120	
1,2-Dichloroethylene (total)	100	100	100	80-120	
Xylenes (total)	150	143	95.4	80-120	
1,4-Dioxane	1000	1042	104	80-120	
Dibromofluoromethane	50.0	51.9	104	71-125	
1,2-Dichloroethane-d4	50.0	51.3	103	70-125	
Toluene-d8	50.0	50.6	101	75-125	
4-Bromofluorobenzene	50.0	50.6	101	72-125	

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder HS24051959

RunID P061215.D

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix LIQUID
Lab Smp Id VSTD050
Data Type MS DATA
File ID P061215.D
Fraction VOA
Client Smp ID VSTD050
SampleType METHSPIKE
Inj Date 12-JUN-2024 1617

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
1,1,1,2-Tetrachloroethane	50.0	48.2	96.4	80-120	
1,1,1-Trichloroethane	50.0	46.0	92.1	80-120	
1,1,2,2-Tetrachloroethane	50.0	52.3	105	80-120	
Freon TF	50.0	46.8	93.5	80-120	
Methyl acetate	50.0	45.7	91.4	80-120	
Cyclohexane	50.0	46.8	93.7	80-120	
Methylcyclohexane	50.0	48.1	96.2	80-120	
Carbon Disulfide	100	93.2	93.2	80-120	
2-Hexanone	100	97.5	97.5	80-120	
1,1,2-Trichloroethane	50.0	49.2	98.4	80-120	
1,1-Dichloroethane	50.0	47.4	94.8	80-120	
1,1-Dichloroethene	50.0	48.2	96.4	80-120	
1,1-Dichloropropene	50.0	47.4	94.8	80-120	
1,2,3-Trichlorobenzene	50.0	49.7	99.5	80-120	
1,2,3-Trichloropropane	50.0	50.9	102	80-120	
1,2,4-Trichlorobenzene	50.0	49.7	99.4	80-120	
1,2,4-Trimethylbenzene	50.0	51.2	102	80-120	
1,2-Dibromo-3-Chloropropane	50.0	45.4	90.9	80-120	
1,2-Dibromoethane	50.0	47.8	95.6	80-120	
Acrolein	100	99.4	99.4	80-120	
Acrylonitrile	100	95.1	95.1	80-120	
1,2-Dichlorobenzene	50.0	51.0	102	80-120	
1,2-Dichloroethane	50.0	47.9	95.8	80-120	
1,2-Dichloropropane	50.0	48.5	97.0	80-120	
1,3,5-Trimethylbenzene	50.0	49.7	99.5	80-120	
1,3-Dichlorobenzene	50.0	51.2	102	80-120	
1,3-Dichloropropane	50.0	49.0	98.0	80-120	
1,4-Dichlorobenzene	50.0	50.9	102	80-120	
1-Chlorohexane	50.0	48.1	96.2	80-120	
2,2-Dichloropropane	50.0	45.7	91.4	80-120	
2-Butanone	100	91.8	91.8	80-120	
2-Chloroethylvinyl ether	100	104	104	80-120	
2-Chlorotoluene	50.0	51.1	102	80-120	
4-Chlorotoluene	50.0	50.3	101	80-120	

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder HS24051959

RunID P061215.D

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix LIQUID
Lab Smp Id VSTD050
Data Type MS DATA
File ID P061215.D

Fraction VOA
Client Smp ID VSTD050
SampleType METHSPIKE
Inj Date 12-JUN-2024 1617

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
p-Isopropyltoluene	50.0	46.7	93.3	80-120	
4-Methyl-2-Pentanone	100	98.2	98.2	80-120	
Acetone	100	91.1	91.1	80-120	
Acetonitrile	500	484	96.9	80-120	
Allyl Chloride	50.0	47.4	94.8	80-120	
Benzene	50.0	48.0	96.0	80-120	
Bromobenzene	50.0	51.3	103	80-120	
Bromochloromethane	50.0	49.6	99.1	80-120	
Bromodichloromethane	50.0	47.6	95.1	80-120	
Bromoform	50.0	48.3	96.6	80-120	
Bromomethane	50.0	47.2	94.5	80-120	
Carbon Tetrachloride	50.0	46.0	92.0	80-120	
Chlorobenzene	50.0	49.3	98.6	80-120	
Chloroethane	50.0	47.4	94.8	80-120	
Chloroform	50.0	47.5	95.0	80-120	
Chloromethane	50.0	47.7	95.5	80-120	
Chloroprene	50.0	45.7	91.4	80-120	
cis-1,2-Dichloroethene	50.0	46.8	93.6	80-120	
cis-1,3-Dichloropropene	50.0	46.7	93.4	80-120	
Dibromochloromethane	50.0	48.6	97.3	80-120	
Dibromomethane	50.0	47.9	95.8	80-120	
Dichlorodifluoromethane	50.0	46.4	92.7	80-120	
Ethylbenzene	50.0	49.4	98.8	80-120	
Ethyl Methacrylate	50.0	44.7	89.5	80-120	
Iodomethane	100	99.1	99.1	80-120	
Isobutyl Alcohol	1000	944	94.4	70-130	
Propionitrile	500	477	95.4	70-130	
Hexachlorobutadiene	50.0	54.6	109	80-120	
Isopropylbenzene	50.0	49.2	98.4	80-120	
m,p-Xylenes	100	98.2	98.2	80-120	
Methyl tert-butyl ether	50.0	45.4	90.8	80-120	
Methylene Chloride	50.0	47.4	94.7	80-120	
Methacrylonitrile	50.0	46.8	93.6	80-120	
Methyl Methacrylate	50.0	48.2	96.4	80-120	

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder HS24051959

RunID P061215.D

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix LIQUID
Lab Smp Id VSTD050
Data Type MS DATA
File ID P061215.D

Fraction VOA
Client Smp ID VSTD050
SampleType METHSPIKE
Inj Date 12-JUN-2024 1617

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
n-Butylbenzene	50.0	47.4	94.8	80-120	
n-Propylbenzene	50.0	51.3	103	80-120	
Naphthalene	50.0	49.9	99.8	80-120	
o-Xylene	50.0	49.8	99.5	80-120	
sec-Butylbenzene	50.0	51.3	103	80-120	
Styrene	50.0	49.2	98.4	80-120	
tert-Butylbenzene	50.0	51.1	102	80-120	
Tetrachloroethene	50.0	48.4	96.9	80-120	
Toluene	50.0	49.5	99.0	80-120	
trans-1,2-Dichloroethene	50.0	45.1	90.2	80-120	
trans-1,3-Dichloropropene	50.0	46.7	93.4	80-120	
trans-1,4-Dichloro-2-butene	50.0	47.1	94.3	80-120	
Trichloroethene	50.0	48.2	96.3	80-120	
Trichlorofluoromethane	50.0	46.5	93.0	80-120	
Vinyl Acetate	100	96.8	96.9	80-120	
Vinyl Chloride	50.0	47.0	93.9	80-120	
1,2-Dichloroethylene (total)	100	91.9	91.9	80-120	
Xylenes (total)	150	148	98.7	80-120	
1,4-Dioxane	1000	0.000		80-120	*
Dibromofluoromethane	50.0	49.6	99.2	85-115	
1,2-Dichloroethane-d4	50.0	48.4	96.9	70-120	
Toluene-d8	50.0	51.1	102	85-115	
4-Bromofluorobenzene	50.0	50.7	101	75-120	

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder HS24051959

RunID W060514A.D

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix LIQUID
Lab Smp Id VSTD050
Data Type MS DATA
File ID W060514A.D
Fraction VOA
Client Smp ID VSTD050
SampleType METHSPIKE
Inj Date 05-JUN-2024 2338

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
1,1,1,2-Tetrachloroethane	50.0	48.0	96.0	80-120	
1,1,1-Trichloroethane	50.0	47.1	94.3	80-120	
1,1,2,2-Tetrachloroethane	50.0	47.9	95.9	80-120	
Freon TF	50.0	47.4	94.9	80-120	
Methyl acetate	50.0	47.8	95.7	80-120	
Cyclohexane	50.0	46.3	92.6	80-120	
Methylcyclohexane	50.0	46.1	92.1	80-120	
Carbon Disulfide	100	89.6	89.6	80-120	
2-Hexanone	100	92.7	92.7	80-120	
1,1,2-Trichloroethane	50.0	48.2	96.4	80-120	
1,1-Dichloroethane	50.0	46.8	93.6	80-120	
1,1-Dichloroethene	50.0	45.0	90.0	80-120	
1,1-Dichloropropene	50.0	44.5	89.0	80-120	
1,2,3-Trichlorobenzene	50.0	49.4	98.8	80-120	
1,2,3-Trichloropropane	50.0	46.0	92.0	80-120	
1,2,4-Trichlorobenzene	50.0	46.1	92.3	80-120	
1,2,4-Trimethylbenzene	50.0	50.9	102	80-120	
1,2-Dibromo-3-Chloropropane	50.0	48.5	97.0	80-120	
1,2-Dibromoethane	50.0	48.2	96.4	80-120	
Acrolein	100	117	117	80-120	
Acrylonitrile	100	95.5	95.6	80-120	
1,2-Dichlorobenzene	50.0	47.4	94.8	80-120	
1,2-Dichloroethane	50.0	47.8	95.7	80-120	
1,2-Dichloropropane	50.0	46.2	92.4	80-120	
1,3,5-Trimethylbenzene	50.0	51.8	104	80-120	
1,3-Dichlorobenzene	50.0	44.4	88.8	80-120	
1,3-Dichloropropane	50.0	48.7	97.4	80-120	
1,4-Dichlorobenzene	50.0	47.2	94.5	80-120	
1-Chlorohexane	50.0	41.9	83.7	80-120	
2,2-Dichloropropane	50.0	43.6	87.3	80-120	
2-Butanone	100	98.9	99.0	80-120	
2-Chloroethylvinyl ether	100	94.0	94.0	80-120	
2-Chlorotoluene	50.0	46.7	93.5	80-120	
4-Chlorotoluene	50.0	46.9	93.8	80-120	

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder HS24051959

RunID W060514A.D

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix LIQUID
Lab Smp Id VSTD050
Data Type MS DATA
File ID W060514A.D

Fraction VOA
Client Smp ID VSTD050
SampleType METHSPIKE
Inj Date 05-JUN-2024 2338

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
p-Isopropyltoluene	50.0	52.0	104	80-120	
4-Methyl-2-Pentanone	100	95.0	95.0	80-120	
Acetone	100	108	108	80-120	
Acetonitrile	500	451	90.3	80-120	
Allyl Chloride	50.0	46.2	92.5	80-120	
Benzene	50.0	46.1	92.2	80-120	
Bromobenzene	50.0	47.8	95.5	80-120	
Bromochloromethane	50.0	49.0	98.1	80-120	
Bromodichloromethane	50.0	45.3	90.6	80-120	
Bromoform	50.0	43.4	86.9	80-120	
Bromomethane	50.0	54.1	108	80-120	
Carbon Tetrachloride	50.0	46.3	92.7	80-120	
Chlorobenzene	50.0	47.2	94.5	80-120	
Chloroethane	50.0	47.7	95.4	80-120	
Chloroform	50.0	43.6	87.1	80-120	
Chloromethane	50.0	44.4	88.9	80-120	
Chloroprene	50.0	45.6	91.3	80-120	
cis-1,2-Dichloroethene	50.0	47.0	94.1	80-120	
cis-1,3-Dichloropropene	50.0	44.2	88.4	80-120	
Dibromochloromethane	50.0	46.6	93.1	80-120	
Dibromomethane	50.0	47.2	94.3	80-120	
Dichlorodifluoromethane	50.0	44.7	89.4	80-120	
Ethylbenzene	50.0	47.1	94.2	80-120	
Ethyl Methacrylate	50.0	47.6	95.1	80-120	
Iodomethane	100	160	160	80-120	*
Isobutyl Alcohol	1000	944	94.4	70-130	
Propionitrile	500	485	97.1	70-130	
Hexachlorobutadiene	50.0	46.1	92.3	80-120	
Isopropylbenzene	50.0	51.5	103	80-120	
m,p-Xylenes	100	96.0	96.0	80-120	
Methyl tert-butyl ether	50.0	48.5	97.0	80-120	
Methylene Chloride	50.0	47.5	94.9	80-120	
Methacrylonitrile	50.0	45.0	89.9	80-120	
Methyl Methacrylate	50.0	46.1	92.1	80-120	

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder HS24051959

RunID W060514A.D

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix LIQUID
Lab Smp Id VSTD050
Data Type MS DATA
File ID W060514A.D

Fraction VOA
Client Smp ID VSTD050
SampleType METHSPIKE
Inj Date 05-JUN-2024 2338

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
n-Butylbenzene	50.0	45.7	91.3	80-120	
n-Propylbenzene	50.0	49.5	99.0	80-120	
Naphthalene	50.0	48.6	97.1	80-120	
o-Xylene	50.0	49.6	99.3	80-120	
sec-Butylbenzene	50.0	51.2	102	80-120	
Styrene	50.0	50.3	101	80-120	
tert-Butylbenzene	50.0	49.2	98.4	80-120	
Tetrachloroethene	50.0	46.5	93.0	80-120	
Toluene	50.0	45.7	91.5	80-120	
trans-1,2-Dichloroethene	50.0	46.7	93.5	80-120	
trans-1,3-Dichloropropene	50.0	43.4	86.9	80-120	
trans-1,4-Dichloro-2-butene	50.0	44.6	89.3	80-120	
Trichloroethene	50.0	46.0	92.0	80-120	
Trichlorofluoromethane	50.0	46.4	92.8	80-120	
Vinyl Acetate	100	95.7	95.7	80-120	
Vinyl Chloride	50.0	44.9	89.9	80-120	
Methyl Acrylate	50.0	47.4	94.9	80-120	
Ethyl Acrylate	50.0	45.9	91.8	80-120	
Butyl acrylate	50.0	45.1	90.1	80-120	
2-Ethylhexyl Acrylate	50.0	47.9	95.8	80-120	
Allyl alcohol	1000	883	88.3	80-120	
1,2-Dichloroethylene (total)	100	85.3	85.3	80-120	
Xylenes (total)	150	144	96.1	80-120	
1,4-Dioxane	1000	915	91.5	80-120	
Dibromofluoromethane	50.0	44.0	88.1	71-125	
1,2-Dichloroethane-d4	50.0	45.5	91.0	70-125	
Toluene-d8	50.0	44.4	88.8	75-125	
4-Bromofluorobenzene	50.0	45.7	91.4	72-125	

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Form 7

Continuing Calibration Verification (CCV)

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24051959

Client

Bhate Environmental Associates, Inc.

Project

LHAAP-58

07/03/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder HS24051959

RunID C061002.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID C061002.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 10-JUN-2024 0947
ICAL Date(s) 03-JUN-2024, 08-JUN-2024
ICAL Times 17:24, 19:08
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Dichlorodifluoromethane	50.0	43.9	0.286	0.100	12.1	20.0	Linear	
Chloromethane	50.0	49.0	0.662	0.100	1.97	20.0	Linear	
Propionitrile	500	460	0.044	0.010	7.90	20.0	Linear	
Vinyl Chloride	50.0	44.2	0.386	0.100	11.6	20.0	Linear	
Bromomethane	50.0	44.1	0.180	0.100	11.8	20.0	Linear	
Chloroethane	50.0	45.3	0.256	0.100	9.40	20.0	Linear	
Trichlorofluoromethane	0.493	0.447	0.447	0.100	9.22	20.0	Averaged	
Acrolein	100	95.2	0.015	0.010	4.81	20.0	Quadratic	
Acetone	100	86.6	0.122	0.100	13.4	20.0	Quadratic	
1,1-Dichloroethene	50.0	44.4	0.258	0.100	11.1	20.0	Linear	
Isobutyl Alcohol	1000	942	0.047	0.005	5.76	20.0	Linear	
Acetonitrile	500	447	0.034	0.005	10.6	20.0	Linear	
Allyl Chloride	50.0	45.2	0.814	0.100	9.62	20.0	Linear	
Iodomethane	100	111	0.121	0.100	-10.927	20.0	Quadratic	
Acrylonitrile	100	92.2	0.115	0.050	7.78	20.0	Linear	
Methylene Chloride	50.0	47.6	0.328	0.100	4.79	20.0	Linear	
Methyl tert-butyl ether	50.0	46.1	0.783	0.100	7.81	20.0	Linear	
Carbon Disulfide	100	88.4	0.782	0.100	11.6	20.0	Linear	
trans-1,2-Dichloroethene	50.0	45.4	0.284	0.100	9.29	20.0	Linear	
Vinyl Acetate	100	95.6	0.174	0.010	4.38	20.0	Linear	
1,1-Dichloroethane	50.0	45.8	0.549	0.200	8.34	20.0	Linear	
Chloroprene	50.0	44.0	0.465	0.100	11.9	20.0	Linear	
2-Butanone	100	96.0	0.170	0.100	4.02	20.0	Linear	
Methacrylonitrile	50.0	45.8	0.204	0.100	8.40	20.0	Linear	
2,2-Dichloropropane	50.0	45.3	0.428	0.100	9.42	20.0	Linear	
cis-1,2-Dichloroethene	50.0	45.8	0.345	0.100	8.49	20.0	Linear	
Chloroform	50.0	47.0	0.570	0.200	6.01	20.0	Linear	
Bromochloromethane	50.0	46.9	0.171	0.100	6.24	20.0	Linear	
30 Dibromofluoromethane	50.0	56.5	0.369	0.100	-12.944	20.0	Linear	
1,1,1-Trichloroethane	0.498	0.442	0.442	0.100	11.2	20.0	Averaged	
1,1-Dichloropropene	50.0	44.0	0.288	0.100	11.9	20.0	Linear	
1,2-Dichloroethane	50.0	48.6	0.325	0.100	2.82	20.0	Linear	
Carbon Tetrachloride	50.0	43.9	0.236	0.100	12.2	20.0	Quadratic	
35 1,2-Dichloroethane-d4	50.0	55.0	0.431	0.100	-9.933	20.0	Linear	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder HS24051959

RunID C061002.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID C061002.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 10-JUN-2024 0947
ICAL Date(s) 03-JUN-2024, 08-JUN-2024
ICAL Times 17:24, 19:08
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Benzene	50.0	45.9	0.881	0.500	8.24	20.0	Linear	
Trichloroethene	50.0	44.7	0.223	0.200	10.6	20.0	Linear	
Bromodichloromethane	0.302	0.273	0.273	0.200	9.49	20.0	Averaged	
Methyl Methacrylate	50.0	46.7	0.127	0.100	6.54	20.0	Linear	
2-Chloroethylvinyl ether	100	87.4	0.051	0.001	12.6	20.0	Quadratic	
1,2-Dichloropropane	50.0	46.6	0.244	0.100	6.70	20.0	Linear	
2-Nitropropane	50.0	44.9	0.079	0.000	10.1	20.0	Linear	
Dibromomethane	50.0	47.3	0.143	0.100	5.41	20.0	Linear	
4-Methyl-2-Pentanone	100	90.3	0.261	0.100	9.66	20.0	Linear	
cis-1,3-Dichloropropene	50.0	44.6	0.352	0.200	10.8	20.0	Linear	
48 Toluene-d8	50.0	56.0	1.05	0.100	-11.990	20.0	Linear	
Ethyl Methacrylate	50.0	43.0	0.286	0.100	14.0	20.0	Linear	
Toluene	50.0	46.4	1.01	0.400	7.21	20.0	Linear	
trans-1,3-Dichloropropene	50.0	44.8	0.290	0.100	10.4	20.0	Linear	
2-Hexanone	100	91.2	0.168	0.100	8.81	20.0	Linear	
1,1,2-Trichloroethane	50.0	48.4	0.202	0.100	3.13	20.0	Linear	
1,3-Dichloropropane	50.0	47.4	0.429	0.100	5.11	20.0	Linear	
Dibromochloromethane	50.0	45.6	0.239	0.100	8.72	20.0	Linear	
Tetrachloroethene	50.0	46.0	0.200	0.200	8.06	20.0	Linear	
1,2-Dibromoethane	50.0	46.6	0.232	0.100	6.75	20.0	Linear	
1-Chlorohexane	50.0	44.1	0.170	0.100	11.8	20.0	Quadratic	
Chlorobenzene	50.0	47.0	0.659	0.500	6.09	20.0	Linear	
1,1,1,2-Tetrachloroethane	50.0	45.7	0.231	0.100	8.63	20.0	Linear	
Ethylbenzene	0.385	0.331	0.331	0.100	14.1	20.0	Averaged	
m,p-Xylenes	0.478	0.423	0.423	0.100	11.5	20.0	Averaged	
o-Xylene	0.467	0.413	0.413	0.300	11.6	20.0	Averaged	
Styrene	0.747	0.681	0.681	0.300	8.84	20.0	Averaged	
Bromoform	50.0	42.5	0.141	0.100	15.1	20.0	Linear	
Isopropylbenzene	1.12	1.02	1.02	0.100	9.08	20.0	Averaged	
1,1,2,2-Tetrachloroethane	50.0	47.2	0.615	0.300	5.55	20.0	Linear	
69 4-Bromofluorobenzene	50.0	55.4	0.381	0.100	-10.719	20.0	Linear	
1,2,3-Trichloropropane	50.0	46.0	0.613	0.100	7.99	20.0	Linear	
trans-1,4-Dichloro-2-butene	50.0	45.2	0.070	0.050	9.53	20.0	Linear	
n-Propylbenzene	2.43	2.19	2.19	0.100	9.83	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder HS24051959

RunID C061002.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID C061002.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 10-JUN-2024 0947
ICAL Date(s) 03-JUN-2024, 08-JUN-2024
ICAL Times 17:24, 19:08
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Bromobenzene	50.0	46.3	0.538	0.100	7.31	20.0	Linear	
1,3,5-Trimethylbenzene	1.60	1.50	1.50	0.100	6.36	20.0	Averaged	
2-Chlorotoluene	50.0	46.2	1.35	0.100	7.67	10.0	Linear	
4-Chlorotoluene	50.0	45.6	1.56	0.100	8.82	20.0	Linear	
tert-Butylbenzene	1.44	1.29	1.29	0.100	9.98	20.0	Averaged	
1,2,4-Trimethylbenzene	1.71	1.50	1.50	0.100	12.0	20.0	Averaged	
sec-Butylbenzene	1.94	1.77	1.77	0.100	8.40	20.0	Averaged	
p-Isopropyltoluene	1.67	1.52	1.52	0.100	9.04	20.0	Averaged	
1,3-Dichlorobenzene	50.0	45.9	0.929	0.600	8.28	20.0	Linear	
1,4-Dichlorobenzene	50.0	46.2	0.974	0.400	7.67	20.0	Linear	
Benzyl Chloride	50.0	48.3	0.328	0.010	3.31	20.0	Quadratic	
n-Butylbenzene	50.0	45.4	1.36	0.500	9.27	20.0	Quadratic	
1,2-Dichlorobenzene	50.0	47.0	0.936	0.400	5.93	20.0	Linear	
1,2-Dibromo-3-Chloropropane	50.0	46.5	0.075	0.050	7.06	20.0	Quadratic	
1,2,4-Trichlorobenzene	50.0	44.8	0.608	0.200	10.4	20.0	Linear	
Hexachlorobutadiene	50.0	46.3	0.268	0.100	7.39	20.0	Quadratic	
Naphthalene	50.0	45.8	1.43	0.200	8.41	20.0	Linear	
1,2,3-Trichlorobenzene	50.0	45.0	0.548	0.100	9.93	20.0	Linear	
Methyl Acetate	50.0	51.0	0.282	0.100	-2.070	20.0	Linear	
Freon TF	50.0	44.8	0.259	0.100	10.5	20.0	Linear	
Cyclohexane	50.0	44.3	0.418	0.100	11.4	20.0	Linear	
Tetrahydrofuran	100	90.4	0.056	0.001	9.58	20.0	Linear	
Methylcyclohexane	50.0	43.1	0.499	0.100	13.7	20.0	Linear	
1,4-Dioxane	1000	994	0.004	0.001	0.572	20.0	Linear	
n-Butanol	1000	929	0.009	0.005	7.11	20.0	Linear	
n-Hexane	50.0	46.4	0.303	0.100	7.18	20.0	Quadratic	
Diethyl ether	50.0	45.0	0.223	0.100	9.96	20.0	Linear	
Tert-butyl alcohol	1000	926	0.027	0.005	7.36	20.0	Linear	
Isopropyl alcohol	1000	970	0.022	0.005	2.95	20.0	Linear	
Diisopropyl ether	50.0	46.4	1.02	0.100	7.26	20.0	Linear	
Butyl acrylate	50.0	44.4	0.394	0.100	11.2	20.0	Quadratic	
Dicyclopentadiene	50.0	43.7	1.96	0.100	12.7	20.0	Linear	
1,2,3-Trimethylbenzene	50.0	45.3	1.33	0.100	9.47	20.0	Linear	
Ethanol	1000	1037	0.004	0.001	-3.741	20.0	Linear	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder HS24051959

RunID C061002.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID C061002.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 10-JUN-2024 0947
ICAL Date(s) 03-JUN-2024, 08-JUN-2024
ICAL Times 17:24, 19:08
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
tert-Butyl formate	100	104	0.276	0.100	-3.766	20.0	Linear	
4-Methyl-2-pentanol	1000	857	0.060	0.005	14.3	20.0	Linear	
1,3-Butadiene	50.0	44.7	0.164	0.100	10.5	20.0	Linear	
Epichlorohydrin	200	192	0.012	0.001	4.19	20.0	Quadratic	
94 1,2-Dichloroethylene (total	100	++++	0.315	0.200	++++	20.0	Linear	*
95 Xylenes (total)	0.426	0.377	0.377	0.100	11.5	20.0	Averaged	
alpha-Methylstyrene	0.667	0.596	0.596	0.100	10.6	20.0	Averaged	
Ethyl Acetate	50.0	45.6	0.105	0.100	8.79	20.0	Linear	
Methyl Acrylate	50.0	45.9	0.365	0.100	8.23	20.0	Linear	
n-Butyl acetate	50.0	44.6	0.398	0.100	10.8	20.0	Linear	
Cyclohexanone	1000	807	0.021	0.005	19.3	20.0	Quadratic	
Isoprene	50.0	44.2	0.072	0.010	11.6	20.0	Linear	
Isopropyl acetate	50.0	48.8	0.645	0.100	2.49	20.0	Quadratic	
Allyl alcohol	1000	915	0.015	0.004	8.53	20.0	Linear	
Acetaldehyde	200	218	0.101	0.001	-8.966	20.0	Quadratic	
Dimethyl Disulfide	50.0	46.0	0.165	0.020	8.07	20.0	Quadratic	
Isobutylene	50.0	41.0	0.134	0.010	17.9	20.0	Linear	
Ethyl Acrylate	50.0	43.1	0.721	0.100	13.7	20.0	Linear	
Butyl methacrylate	50.0	51.1	0.457	0.100	-2.281	20.0	Quadratic	
Propylene oxide	100	87.5	0.025	0.005	12.5	20.0	Linear	
Ethylene oxide	100	75.3	0.437	0.010	24.7	20.0	Quadratic	*
2-Ethylhexyl Acrylate	50.0	44.0	0.518	0.100	12.0	20.0	Quadratic	
Tetrahydrothiophene	50.0	46.4	0.259	0.100	7.21	0.000e+000	Linear	*
sec-Butyl Ether	50.0	41.5	0.460	0.100	17.1	0.000e+000	Linear	*
n-Amyl acetate	50.0	44.0	0.392	0.100	12.0	20.0	Linear	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder HS24051959

RunID C061041.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID C061041.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 10-JUN-2024 1953
ICAL Date(s) 03-JUN-2024, 08-JUN-2024
ICAL Times 17:24, 19:08
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Dichlorodifluoromethane	50.0	42.1	0.274	0.100	15.8	50.0	Linear	
Chloromethane	50.0	47.5	0.644	0.100	4.93	50.0	Linear	
Propionitrile	500	495	0.048	0.010	0.914	50.0	Linear	
Vinyl Chloride	50.0	42.4	0.370	0.100	15.2	50.0	Linear	
Bromomethane	50.0	38.3	0.157	0.100	23.4	50.0	Linear	
Chloroethane	50.0	43.4	0.245	0.100	13.3	50.0	Linear	
Trichlorofluoromethane	0.493	0.437	0.437	0.100	11.3	50.0	Averaged	
Acrolein	100	87.4	0.014	0.010	12.6	50.0	Quadratic	
Acetone	100	91.5	0.128	0.100	8.49	50.0	Quadratic	
1,1-Dichloroethene	50.0	43.6	0.253	0.100	12.7	50.0	Linear	
Isobutyl Alcohol	1000	886	0.044	0.005	11.4	50.0	Linear	
Acetonitrile	500	479	0.037	0.005	4.11	50.0	Linear	
Allyl Chloride	50.0	47.8	0.861	0.100	4.37	50.0	Linear	
Iodomethane	100	84.2	0.088	0.100	15.8	50.0	Quadratic	
Acrylonitrile	100	99.0	0.123	0.050	0.734	50.0	Linear	
Methylene Chloride	50.0	45.8	0.316	0.100	8.38	50.0	Linear	
Methyl tert-butyl ether	50.0	48.0	0.815	0.100	3.99	50.0	Linear	
Carbon Disulfide	100	82.3	0.728	0.100	17.7	50.0	Linear	
trans-1,2-Dichloroethene	50.0	43.5	0.273	0.100	13.1	50.0	Linear	
Vinyl Acetate	100	89.6	0.163	0.010	10.4	50.0	Linear	
1,1-Dichloroethane	50.0	43.9	0.526	0.200	12.2	50.0	Linear	
Chloroprene	50.0	43.0	0.454	0.100	14.0	50.0	Linear	
2-Butanone	100	94.2	0.167	0.100	5.79	50.0	Linear	
Methacrylonitrile	50.0	46.4	0.206	0.100	7.18	50.0	Linear	
2,2-Dichloropropane	50.0	39.0	0.368	0.100	22.0	50.0	Linear	
cis-1,2-Dichloroethene	50.0	43.6	0.328	0.100	12.9	50.0	Linear	
Chloroform	50.0	43.8	0.532	0.200	12.3	50.0	Linear	
Bromochloromethane	50.0	44.5	0.163	0.100	11.1	50.0	Linear	
30 Dibromofluoromethane	50.0	55.9	0.365	0.100	-11.783	50.0	Linear	
1,1,1-Trichloroethane	0.498	0.422	0.422	0.100	15.2	50.0	Averaged	
1,1-Dichloropropene	50.0	42.6	0.278	0.100	14.9	50.0	Linear	
1,2-Dichloroethane	50.0	44.4	0.297	0.100	11.2	50.0	Linear	
Carbon Tetrachloride	50.0	42.4	0.228	0.100	15.2	50.0	Quadratic	
35 1,2-Dichloroethane-d4	50.0	55.4	0.434	0.100	-10.715	50.0	Linear	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder HS24051959

RunID C061041.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID C061041.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 10-JUN-2024 1953
ICAL Date(s) 03-JUN-2024, 08-JUN-2024
ICAL Times 17:24, 19:08
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Benzene	50.0	43.9	0.842	0.500	12.3	50.0	Linear	
Trichloroethene	50.0	43.7	0.217	0.200	12.7	50.0	Linear	
Bromodichloromethane	0.302	0.247	0.247	0.200	18.1	50.0	Averaged	
Methyl Methacrylate	50.0	49.0	0.134	0.100	1.95	50.0	Linear	
2-Chloroethylvinyl ether	100	83.5	0.049	0.001	16.5	50.0	Quadratic	
1,2-Dichloropropane	50.0	43.5	0.228	0.100	12.9	50.0	Linear	
2-Nitropropane	50.0	42.3	0.074	0.000	15.4	50.0	Linear	
Dibromomethane	50.0	44.8	0.135	0.100	10.5	50.0	Linear	
4-Methyl-2-Pentanone	100	89.4	0.258	0.100	10.6	50.0	Linear	
cis-1,3-Dichloropropene	50.0	40.2	0.316	0.200	19.5	50.0	Linear	
48 Toluene-d8	50.0	59.3	1.11	0.100	-18.610	50.0	Linear	
Ethyl Methacrylate	50.0	45.4	0.303	0.100	9.13	50.0	Linear	
Toluene	50.0	45.1	0.983	0.400	9.85	50.0	Linear	
trans-1,3-Dichloropropene	50.0	39.6	0.255	0.100	20.8	50.0	Linear	
2-Hexanone	100	105	0.192	0.100	-4.602	50.0	Linear	
1,1,2-Trichloroethane	50.0	45.5	0.190	0.100	9.03	50.0	Linear	
1,3-Dichloropropane	50.0	45.2	0.409	0.100	9.57	50.0	Linear	
Dibromochloromethane	50.0	41.9	0.219	0.100	16.3	50.0	Linear	
Tetrachloroethene	50.0	45.3	0.197	0.200	9.35	50.0	Linear	
1,2-Dibromoethane	50.0	45.3	0.226	0.100	9.43	50.0	Linear	
1-Chlorohexane	50.0	43.1	0.167	0.100	13.7	50.0	Quadratic	
Chlorobenzene	50.0	45.1	0.633	0.500	9.87	50.0	Linear	
1,1,1,2-Tetrachloroethane	50.0	43.0	0.217	0.100	14.0	50.0	Linear	
Ethylbenzene	0.385	0.324	0.324	0.100	15.9	50.0	Averaged	
m,p-Xylenes	0.478	0.413	0.413	0.100	13.5	50.0	Averaged	
o-Xylene	0.467	0.406	0.406	0.300	12.9	50.0	Averaged	
Styrene	0.747	0.660	0.660	0.300	11.7	50.0	Averaged	
Bromoform	50.0	39.6	0.131	0.100	20.8	50.0	Linear	
Isopropylbenzene	1.12	1.00	1.00	0.100	10.5	50.0	Averaged	
1,1,2,2-Tetrachloroethane	50.0	45.2	0.589	0.300	9.61	50.0	Linear	
69 4-Bromofluorobenzene	50.0	59.6	0.409	0.100	-19.255	50.0	Linear	
1,2,3-Trichloropropane	50.0	43.4	0.579	0.100	13.1	50.0	Linear	
trans-1,4-Dichloro-2-butene	50.0	41.8	0.065	0.050	16.3	50.0	Linear	
n-Propylbenzene	2.43	2.15	2.15	0.100	11.4	50.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder HS24051959

RunID C061041.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID C061041.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 10-JUN-2024 1953
ICAL Date(s) 03-JUN-2024, 08-JUN-2024
ICAL Times 17:24, 19:08
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Bromobenzene	50.0	44.1	0.513	0.100	11.7	50.0	Linear	
1,3,5-Trimethylbenzene	1.60	1.47	1.47	0.100	8.19	50.0	Averaged	
2-Chlorotoluene	50.0	44.8	1.31	0.100	10.4	10.0	Linear	*
4-Chlorotoluene	50.0	44.0	1.51	0.100	12.1	50.0	Linear	
tert-Butylbenzene	1.44	1.28	1.28	0.100	10.7	50.0	Averaged	
1,2,4-Trimethylbenzene	1.71	1.42	1.42	0.100	16.6	50.0	Averaged	
sec-Butylbenzene	1.94	1.75	1.75	0.100	9.58	50.0	Averaged	
p-Isopropyltoluene	1.67	1.50	1.50	0.100	10.1	50.0	Averaged	
1,3-Dichlorobenzene	50.0	44.3	0.898	0.600	11.4	50.0	Linear	
1,4-Dichlorobenzene	50.0	44.2	0.933	0.400	11.6	50.0	Linear	
Benzyl Chloride	50.0	41.6	0.281	0.010	16.8	50.0	Quadratic	
n-Butylbenzene	50.0	43.4	1.30	0.500	13.3	50.0	Quadratic	
1,2-Dichlorobenzene	50.0	44.8	0.891	0.400	10.4	50.0	Linear	
1,2-Dibromo-3-Chloropropane	50.0	45.7	0.074	0.050	8.59	50.0	Quadratic	
1,2,4-Trichlorobenzene	50.0	42.5	0.576	0.200	15.0	50.0	Linear	
Hexachlorobutadiene	50.0	42.9	0.248	0.100	14.3	50.0	Quadratic	
Naphthalene	50.0	45.0	1.41	0.200	9.94	50.0	Linear	
1,2,3-Trichlorobenzene	50.0	44.1	0.537	0.100	11.8	50.0	Linear	
Methyl Acetate	50.0	49.3	0.273	0.100	1.46	50.0	Linear	
Freon TF	50.0	44.2	0.256	0.100	11.6	50.0	Linear	
Cyclohexane	50.0	43.7	0.413	0.100	12.6	50.0	Linear	
Tetrahydrofuran	100	94.5	0.059	0.001	5.50	50.0	Linear	
Methylcyclohexane	50.0	46.1	0.534	0.100	7.82	50.0	Linear	
1,4-Dioxane	1000	981	0.004	0.001	1.86	50.0	Linear	
n-Butanol	1000	924	0.009	0.005	7.56	50.0	Linear	
n-Hexane	50.0	43.6	0.285	0.100	12.7	50.0	Quadratic	
Diethyl ether	50.0	47.8	0.237	0.100	4.32	50.0	Linear	
Tert-butyl alcohol	1000	1028	0.030	0.005	-2.845	50.0	Linear	
Isopropyl alcohol	1000	1015	0.023	0.005	-1.461	50.0	Linear	
Diisopropyl ether	50.0	47.7	1.04	0.100	4.56	50.0	Linear	
Butyl acrylate	50.0	49.5	0.441	0.100	0.972	50.0	Quadratic	
Dicyclopentadiene	50.0	47.7	2.14	0.100	4.55	50.0	Linear	
1,2,3-Trimethylbenzene	50.0	47.0	1.39	0.100	5.97	50.0	Linear	
Ethanol	1000	1063	0.004	0.001	-6.257	50.0	Linear	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder HS24051959

RunID C061041.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID C061041.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 10-JUN-2024 1953
ICAL Date(s) 03-JUN-2024, 08-JUN-2024
ICAL Times 17:24, 19:08
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
tert-Butyl formate	100	109	0.290	0.100	-8.877	50.0	Linear	
4-Methyl-2-pentanol	1000	939	0.066	0.005	6.05	50.0	Linear	
1,3-Butadiene	50.0	43.7	0.160	0.100	12.7	50.0	Linear	
Epichlorohydrin	200	204	0.013	0.001	-1.879	50.0	Quadratic	
94 1,2-Dichloroethylene (total	100	++++	0.301	0.200	++++	50.0	Linear	*
95 Xylenes (total)	0.426	0.365	0.365	0.100	14.2	50.0	Averaged	
alpha-Methylstyrene	0.667	0.574	0.574	0.100	13.9	50.0	Averaged	
Ethyl Acetate	++++	++++	8.246e+60	0.100	++++	50.0	Linear	*
Methyl Acrylate	50.0	48.0	0.381	0.100	4.08	50.0	Linear	
n-Butyl acetate	50.0	41.9	0.373	0.100	16.3	50.0	Linear	
Cyclohexanone	1000	888	0.023	0.005	11.2	50.0	Quadratic	
Isoprene	50.0	42.1	0.069	0.010	15.9	50.0	Linear	
Isopropyl acetate	50.0	46.0	0.608	0.100	8.04	50.0	Quadratic	
Allyl alcohol	1000	860	0.014	0.004	14.0	50.0	Linear	
Acetaldehyde	200	204	0.096	0.001	-2.190	50.0	Quadratic	
Dimethyl Disulfide	50.0	41.4	0.145	0.020	17.3	50.0	Quadratic	
Isobutylene	++++	++++	8.246e+60	0.010	++++	50.0	Linear	*
Ethyl Acrylate	50.0	46.0	0.770	0.100	7.98	50.0	Linear	
Butyl methacrylate	50.0	54.9	0.490	0.100	-9.756	50.0	Quadratic	
Propylene oxide	100	104	0.030	0.005	-4.052	50.0	Linear	
Ethylene oxide	++++	++++	8.246e+60	0.010	++++	50.0	Quadratic	*
2-Ethylhexyl Acrylate	50.0	46.3	0.547	0.100	7.31	50.0	Quadratic	
Tetrahydrothiophene	50.0	49.4	0.275	0.100	1.28	0.000e+000	Linear	*
sec-Butyl Ether	50.0	28.6	0.314	0.100	42.7	0.000e+000	Linear	*
n-Amyl acetate	50.0	44.6	0.397	0.100	10.8	50.0	Linear	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder HS24051959

RunID P061242.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID voa7.i
Lab File ID P061242.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 13-JUN-2024 0240
ICAL Date(s) 12-JUN-2024, 12-JUN-2024
ICAL Times 11:43, 14:46
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Dichlorodifluoromethane	50.0	54.4	0.560	0.100	8.78	50.0	Linear	
Dichlorofluoromethane	1.03	0.941	0.941	0.100	-8.868	50.0	Averaged	
Chloromethane	50.0	54.1	0.843	0.100	8.13	50.0	Linear	
Propionitrile	500	426	0.057	0.010	-14.819	50.0	Linear	
Vinyl Chloride	50.0	52.3	0.719	0.100	4.63	50.0	Linear	
Bromomethane	50.0	51.8	0.455	0.100	3.63	50.0	Quadratic	
Chloroethane	50.0	52.7	0.438	0.100	5.40	50.0	Linear	
Trichlorofluoromethane	50.0	51.9	0.945	0.100	3.77	50.0	Linear	
Acrolein	100	84.8	0.017	0.010	-15.191	50.0	Quadratic	
Acetone	100	84.9	0.145	0.100	-15.060	50.0	Linear	
1,1-Dichloroethene	0.482	0.515	0.515	0.100	6.91	50.0	Averaged	
Isobutyl Alcohol	1000	896	0.071	0.005	-10.428	50.0	Linear	
Acetonitrile	500	485	0.068	0.010	-3.008	50.0	Linear	
Allyl Chloride	50.0	47.5	1.43	0.050	-4.967	50.0	Linear	
Iodomethane	100	104	0.394	0.100	4.14	50.0	Quadratic	
Acrylonitrile	100	90.6	0.152	0.050	-9.388	50.0	Linear	
Methylene Chloride	50.0	51.4	0.593	0.100	2.87	50.0	Linear	
Methyl tert-butyl ether	50.0	44.6	1.17	0.100	-10.880	50.0	Linear	
Carbon Disulfide	100	101	1.59	0.100	0.883	50.0	Linear	
trans-1,2-Dichloroethene	0.535	0.523	0.523	0.100	-2.195	50.0	Averaged	
Vinyl Acetate	100	91.6	0.252	0.100	-8.410	50.0	Linear	
1,1-Dichloroethane	50.0	52.1	1.13	0.200	4.26	50.0	Linear	
Chloroprene	0.938	0.918	0.918	0.050	-2.098	50.0	Averaged	
2-Butanone	100	86.3	0.197	0.100	-13.730	50.0	Linear	
Methacrylonitrile	50.0	47.7	0.778	0.010	-4.525	50.0	Linear	
2,2-Dichloropropane	50.0	46.0	0.863	0.100	-7.934	50.0	Linear	
cis-1,2-Dichloroethene	50.0	50.3	0.597	0.100	0.539	50.0	Linear	
Chloroform	50.0	50.9	1.08	0.200	1.83	50.0	Linear	
Bromochloromethane	50.0	52.2	0.296	0.100	4.31	50.0	Linear	
30 Dibromofluoromethane	50.0	57.9	0.619	0.100	15.9	50.0	Linear	
1,1,1-Trichloroethane	50.0	49.6	0.932	0.100	-0.704	50.0	Linear	
1,1-Dichloropropene	50.0	49.0	0.486	0.100	-2.020	50.0	Linear	
1,2-Dichloroethane	50.0	48.9	0.534	0.100	-2.102	50.0	Linear	
Carbon Tetrachloride	50.0	47.7	0.484	0.100	-4.519	50.0	Linear	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder HS24051959

RunID P061242.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID voa7.i
Lab File ID P061242.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 13-JUN-2024 0240
ICAL Date(s) 12-JUN-2024, 12-JUN-2024
ICAL Times 11:43, 14:46
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
35 1,2-Dichloroethane-d4	50.0	56.8	0.797	0.100	13.5	50.0	Linear	
Benzene	50.0	50.0	1.32	0.500	0.088	50.0	Linear	
Trichloroethene	50.0	49.9	0.347	0.200	-0.222	50.0	Linear	
Bromodichloromethane	50.0	47.9	0.484	0.200	-4.134	50.0	Linear	
Methyl Methacrylate	50.0	46.8	0.484	0.050	-6.328	50.0	Linear	
2-Chloroethylvinyl ether	100	80.7	0.107	0.050	-19.340	50.0	Quadratic	
1,2-Dichloropropane	50.0	50.0	0.384	0.100	0.027	50.0	Linear	
2-Nitropropane	50.0	41.2	0.143	0.100	-17.548	50.0	Linear	
Dibromomethane	50.0	47.9	0.208	0.100	-4.188	50.0	Linear	
4-Methyl-2-Pentanone	100	88.3	0.322	0.100	-11.658	50.0	Linear	
cis-1,3-Dichloropropene	50.0	46.5	0.522	0.200	-7.041	50.0	Linear	
48 Toluene-d8	50.0	57.7	1.44	0.100	15.4	50.0	Linear	
Ethyl Methacrylate	50.0	31.8	0.204	0.010	-36.432	50.0	Quadratic	
Toluene	50.0	50.1	1.47	0.400	0.246	50.0	Linear	
trans-1,3-Dichloropropene	50.0	46.5	0.522	0.100	-7.041	50.0	Linear	
2-Hexanone	100	83.5	0.212	0.100	-16.538	50.0	Linear	
1,1,2-Trichloroethane	50.0	48.6	0.274	0.100	-2.863	50.0	Linear	
1,3-Dichloropropane	50.0	48.4	0.569	0.100	-3.268	50.0	Linear	
Dibromochloromethane	50.0	47.8	0.378	0.100	-4.495	50.0	Linear	
Tetrachloroethene	50.0	48.1	0.275	0.100	-3.774	50.0	Linear	
1,2-Dibromoethane	50.0	48.2	0.262	0.100	-3.500	50.0	Linear	
1-Chlorohexane	50.0	48.3	0.321	0.100	-3.342	50.0	Linear	
Chlorobenzene	50.0	49.7	0.954	0.500	-0.596	50.0	Linear	
1,1,1,2-Tetrachloroethane	50.0	46.8	0.336	0.100	-6.449	50.0	Linear	
Ethylbenzene	50.0	48.6	0.484	0.100	-2.729	50.0	Linear	
m,p-Xylenes	100	98.4	0.617	0.100	-1.573	50.0	Linear	
o-Xylene	50.0	49.7	0.599	0.300	-0.625	50.0	Linear	
Styrene	50.0	49.5	1.01	0.300	-0.989	50.0	Linear	
Bromoform	50.0	45.6	0.229	0.100	-8.826	50.0	Linear	
Isopropylbenzene	50.0	48.8	1.49	0.100	-2.368	50.0	Linear	
1,1,2,2-Tetrachloroethane	50.0	45.6	0.774	0.300	-8.864	50.0	Linear	
69 4-Bromofluorobenzene	50.0	53.6	0.525	0.100	7.15	50.0	Linear	
1,2,3-Trichloropropane	50.0	45.7	0.843	0.100	-8.581	50.0	Linear	
trans-1,4-Dichloro-2-butene	50.0	43.7	0.089	0.050	-12.547	50.0	Linear	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder HS24051959

RunID P061242.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID voa7.i
Lab File ID P061242.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 13-JUN-2024 0240
ICAL Date(s) 12-JUN-2024, 12-JUN-2024
ICAL Times 11:43, 14:46
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
n-Propylbenzene	50.0	47.8	3.45	0.100	-4.471	50.0	Linear	
Bromobenzene	50.0	49.1	0.788	0.100	-1.803	50.0	Linear	
1,3,5-Trimethylbenzene	50.0	47.2	2.41	0.100	-5.582	50.0	Linear	
2-Chlorotoluene	50.0	48.6	2.16	0.100	-2.847	50.0	Linear	
4-Chlorotoluene	50.0	48.4	2.53	0.100	-3.203	50.0	Linear	
tert-Butylbenzene	50.0	48.5	2.07	0.100	-3.087	50.0	Linear	
1,2,4-Trimethylbenzene	50.0	48.6	2.49	0.100	-2.880	50.0	Linear	
sec-Butylbenzene	50.0	48.4	2.87	0.100	-3.199	50.0	Linear	
p-Isopropyltoluene	2.85	2.47	2.47	0.100	-13.460	50.0	Averaged	
1,3-Dichlorobenzene	50.0	48.2	1.40	0.600	-3.528	50.0	Linear	
1,4-Dichlorobenzene	50.0	47.9	1.44	0.400	-4.145	50.0	Linear	
n-Butylbenzene	2.58	2.25	2.25	0.050	-12.939	50.0	Averaged	
1,2-Dichlorobenzene	50.0	48.2	1.36	0.400	-3.637	50.0	Linear	
1,2-Dibromo-3-Chloropropane	0.148	0.116	0.116	0.050	-21.516	50.0	Averaged	
1,2,4-Trichlorobenzene	50.0	44.0	0.780	0.200	-11.998	50.0	Linear	
Hexachlorobutadiene	0.407	0.387	0.387	0.100	-4.843	50.0	Averaged	
Naphthalene	50.0	41.7	1.63	0.200	-16.648	50.0	Linear	
1,2,3-Trichlorobenzene	50.0	41.0	0.577	0.100	-18.047	50.0	Linear	
Methyl Acetate	50.0	46.1	0.365	0.100	-7.790	50.0	Linear	
Freon TF	50.0	51.0	0.523	0.100	2.01	50.0	Linear	
Diethyl ether	50.0	47.4	0.321	0.050	-5.269	50.0	Linear	
1,3-Butadiene	50.0	50.4	0.311	0.050	0.764	50.0	Linear	
Cyclohexane	50.0	50.2	0.827	0.100	0.472	50.0	Linear	
Methylcyclohexane	50.0	45.4	0.442	0.100	-9.146	50.0	Linear	
n-Butanol	1000	913	0.015	0.001	-8.719	50.0	Linear	
Methyl Acrylate	50.0	45.5	0.477	0.100	-9.079	50.0	Linear	
Ethyl Acrylate	1.42	0.552	0.552	0.100	-61.015	50.0	Averaged	
n-Hexane	50.0	47.3	0.543	0.100	-5.494	50.0	Linear	
Tetrahydrofuran	100	86.0	0.076	0.050	-13.958	50.0	Linear	
Tert-butyl alcohol	1000	759	0.025	0.005	-24.125	50.0	Quadratic	
Isopropyl alcohol	1000	648	0.021	0.005	-35.185	50.0	Linear	
4-Methyl-2-pentanol	1000	735	0.074	0.005	-26.541	50.0	Linear	
1,2,3-Trimethylbenzene	50.0	48.9	2.22	0.100	-2.243	50.0	Linear	
Ethanol	1000	667	0.004	0.001	-33.312	50.0	Linear	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder HS24051959

RunID P061242.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID voa7.i
Lab File ID P061242.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 13-JUN-2024 0240
ICAL Date(s) 12-JUN-2024, 12-JUN-2024
ICAL Times 11:43, 14:46
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
tert-Butyl formate	100	75.8	0.254	0.100	-24.161	50.0	Quadratic	
3,3-Dimethyl-1-butanol	1000	634	0.015	0.005	-36.582	50.0	Quadratic	
tert-Amyl methyl ether	50.0	48.0	1.29	0.050	-3.994	50.0	Quadratic	
tert-Butyl ethyl ether	50.0	48.1	1.41	0.100	-3.720	50.0	Quadratic	
2-Methylnaphthalene	50.0	33.4	0.475	0.050	-33.178	50.0	Linear	
Diisopropyl ether	50.0	49.2	1.76	0.050	-1.569	50.0	Linear	
1-Methylnaphthalene	50.0	34.1	0.397	0.100	-31.732	50.0	Linear	
Ethyl Acetate	50.0	43.7	2.93	0.010	-12.601	50.0	Linear	
tert-Amyl alcohol	1000	728	0.025	0.005	-27.241	50.0	Linear	
Epichlorohydrin	200	173	0.016	0.005	-13.654	50.0	Quadratic	
Butyl acrylate	50.0	43.3	0.711	0.100	-13.304	50.0	Linear	
Isobutylene	++++	++++	8.246e+60	0.100	++++	50.0	Linear	*
Isopropyl Acetate	50.0	44.1	0.848	0.100	-11.786	50.0	Linear	
n-Amyl acetate	50.0	41.9	0.656	0.100	-16.203	50.0	Linear	
Acetaldehyde	200	202	0.126	0.100	1.15	0.000e+000	Quadratic	<-
94 1,2-Dichloroethylene (total	100	++++	0.560	0.100	++++	50.0	Linear	*
95 Xylenes (total)	150	++++	0.571	0.100	++++	50.0	Linear	*

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder HS24051959

RunID U060602.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U060602.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 06-JUN-2024 1050
ICAL Date(s) 03-JUN-2024, 05-JUN-2024
ICAL Times 17:24, 22:12
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Dichlorodifluoromethane	50.0	52.3	0.163	0.100	-4.696	20.0	Linear	
Chloromethane	50.0	51.5	0.594	0.100	-3.061	20.0	Linear	
Propionitrile	500	449	0.044	0.010	10.1	20.0	Linear	
Vinyl Chloride	0.340	0.322	0.322	0.100	5.27	20.0	Averaged	
Bromomethane	50.0	48.0	0.148	0.100	4.01	20.0	Linear	
Chloroethane	50.0	47.4	0.233	0.100	5.24	20.0	Linear	
Trichlorofluoromethane	0.438	0.424	0.424	0.100	3.12	20.0	Averaged	
Acrolein	100	90.2	0.015	0.010	9.81	20.0	Quadratic	
Acetone	100	91.1	0.122	0.100	8.94	20.0	Linear	
1,1-Dichloroethene	0.287	0.262	0.262	0.100	8.49	20.0	Averaged	
Isobutyl Alcohol	0.053	0.047	0.047	0.005	10.8	20.0	Averaged	
Acetonitrile	500	457	0.038	0.005	8.68	20.0	Linear	
Allyl Chloride	50.0	45.6	0.855	0.100	8.76	20.0	Linear	
Iodomethane	100	149	0.111	0.100	-49.081	20.0	Quadratic	*
Acrylonitrile	100	90.7	0.114	0.050	9.33	20.0	Linear	
Methylene Chloride	50.0	49.1	0.339	0.100	1.86	20.0	Linear	
Methyl tert-butyl ether	50.0	45.1	0.768	0.100	9.79	20.0	Linear	
Carbon Disulfide	0.822	0.760	0.760	0.100	7.58	20.0	Averaged	
trans-1,2-Dichloroethene	50.0	47.8	0.294	0.100	4.38	20.0	Linear	
Vinyl Acetate	100	95.0	0.186	0.010	5.03	20.0	Linear	
1,1-Dichloroethane	50.0	47.7	0.574	0.200	4.58	20.0	Linear	
Chloroprene	0.510	0.465	0.465	0.100	8.86	20.0	Averaged	
2-Butanone	100	92.0	0.170	0.100	8.02	20.0	Linear	
Methacrylonitrile	50.0	45.8	0.202	0.100	8.41	20.0	Linear	
2,2-Dichloropropane	0.425	0.408	0.408	0.100	4.10	20.0	Averaged	
cis-1,2-Dichloroethene	50.0	47.7	0.352	0.100	4.63	20.0	Linear	
Chloroform	0.659	0.590	0.590	0.200	10.5	20.0	Averaged	
Bromochloromethane	50.0	49.4	0.178	0.100	1.20	20.0	Linear	
30 Dibromofluoromethane	0.360	0.375	0.375	0.100	-4.004	20.0	Averaged	
1,1,1-Trichloroethane	0.473	0.451	0.451	0.100	4.60	20.0	Averaged	
1,1-Dichloropropene	0.323	0.296	0.296	0.100	8.31	20.0	Averaged	
1,2-Dichloroethane	50.0	49.2	0.340	0.100	1.58	20.0	Linear	
Carbon Tetrachloride	0.266	0.251	0.251	0.100	5.75	20.0	Averaged	
35 1,2-Dichloroethane-d4	0.439	0.456	0.456	0.100	-3.715	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder HS24051959

RunID U060602.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U060602.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 06-JUN-2024 1050
ICAL Date(s) 03-JUN-2024, 05-JUN-2024
ICAL Times 17:24, 22:12
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Benzene	50.0	48.3	0.915	0.500	3.38	20.0	Linear	
Trichloroethene	0.249	0.227	0.227	0.200	8.92	20.0	Averaged	
Bromodichloromethane	0.297	0.276	0.276	0.200	6.85	20.0	Averaged	
Methyl Methacrylate	50.0	43.7	0.132	0.100	12.7	20.0	Linear	
2-Chloroethylvinyl ether	100	86.7	0.052	0.001	13.3	20.0	Quadratic	
1,2-Dichloropropane	50.0	47.6	0.252	0.100	4.79	20.0	Linear	
2-Nitropropane	0.072	0.073	0.073	0.000	-1.181	20.0	Averaged	
Dibromomethane	50.0	48.9	0.150	0.100	2.10	20.0	Linear	
4-Methyl-2-Pentanone	100	87.9	0.266	0.100	12.1	20.0	Linear	
cis-1,3-Dichloropropene	50.0	44.6	0.343	0.200	10.8	20.0	Linear	
48 Toluene-d8	1.00	1.11	1.11	0.100	-10.752	20.0	Averaged	
Ethyl Methacrylate	0.323	0.288	0.288	0.100	11.0	20.0	Averaged	
Toluene	1.12	1.04	1.04	0.400	6.48	20.0	Averaged	
trans-1,3-Dichloropropene	50.0	43.5	0.278	0.100	13.0	20.0	Linear	
2-Hexanone	100	85.8	0.179	0.100	14.2	20.0	Linear	
1,1,2-Trichloroethane	50.0	48.4	0.206	0.100	3.12	20.0	Linear	
1,3-Dichloropropane	50.0	48.7	0.445	0.100	2.64	20.0	Linear	
Dibromochloromethane	50.0	46.0	0.242	0.100	7.97	20.0	Linear	
Tetrachloroethene	0.217	0.203	0.203	0.200	6.29	20.0	Averaged	
1,2-Dibromoethane	50.0	47.2	0.237	0.100	5.51	20.0	Linear	
1-Chlorohexane	50.0	44.5	0.188	0.100	11.0	20.0	Linear	
Chlorobenzene	50.0	48.7	0.678	0.500	2.52	20.0	Linear	
1,1,1,2-Tetrachloroethane	0.242	0.233	0.233	0.100	3.48	20.0	Averaged	
Ethylbenzene	0.356	0.339	0.339	0.100	4.90	20.0	Averaged	
m,p-Xylenes	0.443	0.435	0.435	0.100	1.76	20.0	Averaged	
o-Xylene	0.429	0.431	0.431	0.300	-0.484	20.0	Averaged	
Styrene	0.693	0.717	0.717	0.300	-3.377	20.0	Averaged	
Bromoform	50.0	41.8	0.139	0.100	16.3	20.0	Linear	
Isopropylbenzene	1.02	1.05	1.05	0.100	-3.311	20.0	Averaged	
1,1,2,2-Tetrachloroethane	50.0	48.6	0.645	0.300	2.90	20.0	Linear	
69 4-Bromofluorobenzene	0.363	0.416	0.416	0.100	-14.387	20.0	Averaged	
1,2,3-Trichloropropane	50.0	45.8	0.623	0.100	8.35	20.0	Linear	
trans-1,4-Dichloro-2-butene	50.0	44.1	0.068	0.050	11.8	20.0	Linear	
n-Propylbenzene	2.27	2.32	2.32	0.100	-2.196	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder HS24051959

RunID U060602.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U060602.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 06-JUN-2024 1050
ICAL Date(s) 03-JUN-2024, 05-JUN-2024
ICAL Times 17:24, 22:12
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Bromobenzene	50.0	48.4	0.549	0.100	3.25	20.0	Linear	
1,3,5-Trimethylbenzene	1.50	1.59	1.59	0.100	-6.308	20.0	Averaged	
2-Chlorotoluene	1.47	1.41	1.41	0.100	4.04	20.0	Averaged	
4-Chlorotoluene	1.70	1.64	1.64	0.100	3.46	20.0	Averaged	
tert-Butylbenzene	1.37	1.38	1.38	0.100	-0.866	20.0	Averaged	
1,2,4-Trimethylbenzene	1.55	1.61	1.61	0.100	-3.987	20.0	Averaged	
sec-Butylbenzene	1.81	1.89	1.89	0.100	-4.711	20.0	Averaged	
p-Isopropyltoluene	1.54	1.65	1.65	0.100	-7.420	20.0	Averaged	
1,3-Dichlorobenzene	1.05	0.964	0.964	0.600	8.37	20.0	Averaged	
1,4-Dichlorobenzene	50.0	48.9	1.02	0.400	2.21	20.0	Linear	
Benzyl Chloride	50.0	46.3	0.294	0.010	7.30	20.0	Quadratic	
n-Butylbenzene	50.0	47.1	1.45	0.500	5.82	20.0	Linear	
1,2-Dichlorobenzene	50.0	49.1	0.968	0.400	1.85	20.0	Linear	
1,2-Dibromo-3-Chloropropane	50.0	44.6	0.072	0.050	10.8	20.0	Quadratic	
1,2,4-Trichlorobenzene	50.0	47.0	0.621	0.200	5.96	20.0	Linear	
Hexachlorobutadiene	0.286	0.279	0.279	0.100	2.44	20.0	Averaged	
Naphthalene	50.0	45.1	1.41	0.200	9.87	20.0	Linear	
1,2,3-Trichlorobenzene	0.576	0.549	0.549	0.100	4.74	20.0	Averaged	
Methyl Acetate	50.0	48.6	0.351	0.100	2.74	20.0	Linear	
Freon TF	0.246	0.250	0.250	0.100	-1.753	20.0	Averaged	
Cyclohexane	50.0	46.9	0.420	0.100	6.23	20.0	Linear	
Tetrahydrofuran	100	85.8	0.055	0.001	14.2	20.0	Linear	
Methylcyclohexane	0.575	0.530	0.530	0.100	7.89	20.0	Averaged	
1,4-Dioxane	1000	915	0.003	0.001	8.50	20.0	Linear	
n-Butanol	1000	823	0.009	0.005	17.7	20.0	Linear	
n-Hexane	50.0	49.8	0.314	0.100	0.459	20.0	Linear	
Diethyl ether	50.0	45.4	0.225	0.100	9.14	20.0	Linear	
Tert-butyl alcohol	1000	849	0.026	0.005	15.1	20.0	Linear	
Isopropyl alcohol	1000	862	0.021	0.005	13.8	20.0	Linear	
Diisopropyl ether	50.0	46.7	1.06	0.100	6.50	20.0	Linear	
Butyl acrylate	0.494	0.420	0.420	0.100	14.8	20.0	Averaged	
Dicyclopentadiene	50.0	46.1	2.19	0.100	7.82	20.0	Linear	
1,2,3-Trimethylbenzene	50.0	47.4	1.49	0.100	5.30	20.0	Linear	
Ethanol	1000	904	0.004	0.001	9.56	20.0	Linear	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder HS24051959

RunID U060602.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U060602.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 06-JUN-2024 1050
ICAL Date(s) 03-JUN-2024, 05-JUN-2024
ICAL Times 17:24, 22:12
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
tert-Butyl formate	100	86.5	0.257	0.100	13.5	20.0	Linear	
4-Methyl-2-pentanol	1000	816	0.062	0.005	18.4	20.0	Linear	
1,3-Butadiene	50.0	48.4	0.161	0.100	3.21	20.0	Linear	
Epichlorohydrin	200	186	0.013	0.001	7.23	20.0	Quadratic	
94 1,2-Dichloroethylene (total	0.372	0.323	0.323	0.200	13.2	20.0	Averaged	
95 Xylenes (total)	0.395	0.394	0.394	0.100	0.370	20.0	Averaged	
alpha-Methylstyrene	0.609	0.627	0.627	0.100	-3.032	20.0	Averaged	
Ethyl Acetate	50.0	50.4	0.135	0.100	-0.760	20.0	Linear	
Methyl Acrylate	50.0	44.0	0.357	0.100	12.0	20.0	Linear	
n-Butyl acetate	0.374	0.331	0.331	0.100	11.6	20.0	Averaged	
Cyclohexanone	1000	870	0.019	0.005	13.0	20.0	Quadratic	
Isoprene	0.084	0.077	0.077	0.010	8.13	20.0	Averaged	
Isopropyl acetate	50.0	46.0	0.657	0.100	7.93	20.0	Quadratic	
Allyl alcohol	1000	995	0.016	0.004	0.459	20.0	Linear	
Acetaldehyde	200	272	0.102	0.001	-35.771	20.0	Linear	*
Dimethyl Disulfide	50.0	47.7	0.142	0.020	4.69	20.0	Quadratic	
Isobutylene	0.164	0.167	0.167	0.010	-1.889	20.0	Averaged	
Ethyl Acrylate	0.845	0.765	0.765	0.100	9.41	20.0	Averaged	
Butyl methacrylate	50.0	49.9	0.515	0.100	0.265	20.0	Quadratic	
Propylene oxide	0.028	0.025	0.025	0.005	11.9	20.0	Averaged	
Ethylene oxide	100	84.9	0.569	0.010	15.1	20.0	Quadratic	
2-Ethylhexyl Acrylate	50.0	47.6	0.508	0.100	4.89	20.0	Quadratic	
Tetrahydrothiophene	0.237	0.219	0.219	0.100	7.41	20.0	Averaged	
sec-Butyl Ether	0.612	0.496	0.496	0.100	19.0	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder HS24051959

RunID U060629.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U060629.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 06-JUN-2024 2037
ICAL Date(s) 03-JUN-2024, 05-JUN-2024
ICAL Times 17:24, 22:12
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Dichlorodifluoromethane	50.0	53.2	0.165	0.100	-6.417	50.0	Linear	
Chloromethane	50.0	54.8	0.630	0.100	-9.699	50.0	Linear	
Propionitrile	500	426	0.041	0.010	14.9	50.0	Linear	
Vinyl Chloride	0.340	0.334	0.334	0.100	1.64	50.0	Averaged	
Bromomethane	50.0	46.1	0.142	0.100	7.78	50.0	Linear	
Chloroethane	50.0	49.1	0.241	0.100	1.72	50.0	Linear	
Trichlorofluoromethane	0.438	0.446	0.446	0.100	-1.817	50.0	Averaged	
Acrolein	100	90.3	0.015	0.010	9.68	50.0	Quadratic	
Acetone	100	77.8	0.105	0.100	22.2	50.0	Linear	
1,1-Dichloroethene	0.287	0.272	0.272	0.100	5.16	50.0	Averaged	
Isobutyl Alcohol	0.053	0.045	0.045	0.005	16.3	50.0	Averaged	
Acetonitrile	500	444	0.037	0.005	11.2	50.0	Linear	
Allyl Chloride	50.0	43.7	0.820	0.100	12.5	50.0	Linear	
Iodomethane	100	118	0.081	0.100	-17.926	50.0	Quadratic	
Acrylonitrile	100	87.3	0.110	0.050	12.7	50.0	Linear	
Methylene Chloride	50.0	48.2	0.333	0.100	3.69	50.0	Linear	
Methyl tert-butyl ether	50.0	43.4	0.740	0.100	13.1	50.0	Linear	
Carbon Disulfide	0.822	0.764	0.764	0.100	7.06	50.0	Averaged	
trans-1,2-Dichloroethene	50.0	47.6	0.292	0.100	4.79	50.0	Linear	
Vinyl Acetate	100	87.7	0.171	0.010	12.3	50.0	Linear	
1,1-Dichloroethane	50.0	48.2	0.580	0.200	3.50	50.0	Linear	
Chloroprene	0.510	0.486	0.486	0.100	4.63	50.0	Averaged	
2-Butanone	100	83.8	0.155	0.100	16.2	50.0	Linear	
Methacrylonitrile	50.0	43.8	0.193	0.100	12.4	50.0	Linear	
2,2-Dichloropropane	0.425	0.380	0.380	0.100	10.8	50.0	Averaged	
cis-1,2-Dichloroethene	50.0	47.3	0.349	0.100	5.36	50.0	Linear	
Chloroform	0.659	0.590	0.590	0.200	10.5	50.0	Averaged	
Bromochloromethane	50.0	48.4	0.174	0.100	3.27	50.0	Linear	
30 Dibromofluoromethane	0.360	0.376	0.376	0.100	-4.441	50.0	Averaged	
1,1,1-Trichloroethane	0.473	0.458	0.458	0.100	3.11	50.0	Averaged	
1,1-Dichloropropene	0.323	0.297	0.297	0.100	7.92	50.0	Averaged	
1,2-Dichloroethane	50.0	47.8	0.330	0.100	4.49	50.0	Linear	
Carbon Tetrachloride	0.266	0.257	0.257	0.100	3.61	50.0	Averaged	
35 1,2-Dichloroethane-d4	0.439	0.462	0.462	0.100	-5.191	50.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder HS24051959

RunID U060629.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U060629.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 06-JUN-2024 2037
ICAL Date(s) 03-JUN-2024, 05-JUN-2024
ICAL Times 17:24, 22:12
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Benzene	50.0	47.9	0.907	0.500	4.23	50.0	Linear	
Trichloroethene	0.249	0.232	0.232	0.200	6.74	50.0	Averaged	
Bromodichloromethane	0.297	0.267	0.267	0.200	10.1	50.0	Averaged	
Methyl Methacrylate	50.0	40.7	0.123	0.100	18.6	50.0	Linear	
2-Chloroethylvinyl ether	100	72.1	0.043	0.001	27.9	50.0	Quadratic	
1,2-Dichloropropane	50.0	46.7	0.248	0.100	6.58	50.0	Linear	
2-Nitropropane	0.072	0.068	0.068	0.000	6.03	50.0	Averaged	
Dibromomethane	50.0	46.6	0.142	0.100	6.86	50.0	Linear	
4-Methyl-2-Pentanone	100	80.5	0.243	0.100	19.5	50.0	Linear	
cis-1,3-Dichloropropene	50.0	42.1	0.323	0.200	15.7	50.0	Linear	
48 Toluene-d8	1.00	1.11	1.11	0.100	-10.750	50.0	Averaged	
Ethyl Methacrylate	0.323	0.265	0.265	0.100	18.2	50.0	Averaged	
Toluene	1.12	1.04	1.04	0.400	6.93	50.0	Averaged	
trans-1,3-Dichloropropene	50.0	41.0	0.261	0.100	17.9	50.0	Linear	
2-Hexanone	100	82.7	0.173	0.100	17.3	50.0	Linear	
1,1,2-Trichloroethane	50.0	46.8	0.199	0.100	6.43	50.0	Linear	
1,3-Dichloropropane	50.0	46.7	0.427	0.100	6.61	50.0	Linear	
Dibromochloromethane	50.0	43.4	0.228	0.100	13.2	50.0	Linear	
Tetrachloroethene	0.217	0.211	0.211	0.200	2.89	50.0	Averaged	
1,2-Dibromoethane	50.0	45.4	0.227	0.100	9.24	50.0	Linear	
1-Chlorohexane	50.0	43.6	0.184	0.100	12.8	50.0	Linear	
Chlorobenzene	50.0	48.2	0.671	0.500	3.56	50.0	Linear	
1,1,1,2-Tetrachloroethane	0.242	0.229	0.229	0.100	5.29	50.0	Averaged	
Ethylbenzene	0.356	0.336	0.336	0.100	5.71	50.0	Averaged	
m,p-Xylenes	0.443	0.432	0.432	0.100	2.55	50.0	Averaged	
o-Xylene	0.429	0.424	0.424	0.300	1.18	50.0	Averaged	
Styrene	0.693	0.684	0.684	0.300	1.37	50.0	Averaged	
Bromoform	50.0	39.3	0.130	0.100	21.4	50.0	Linear	
Isopropylbenzene	1.02	1.06	1.06	0.100	-3.772	50.0	Averaged	
1,1,2,2-Tetrachloroethane	50.0	44.1	0.586	0.300	11.9	50.0	Linear	
69 4-Bromofluorobenzene	0.363	0.410	0.410	0.100	-12.870	50.0	Averaged	
1,2,3-Trichloropropane	50.0	41.1	0.557	0.100	17.8	50.0	Linear	
trans-1,4-Dichloro-2-butene	50.0	40.1	0.062	0.050	19.8	50.0	Linear	
n-Propylbenzene	2.27	2.21	2.21	0.100	2.69	50.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder HS24051959

RunID U060629.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U060629.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 06-JUN-2024 2037
ICAL Date(s) 03-JUN-2024, 05-JUN-2024
ICAL Times 17:24, 22:12
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Bromobenzene	50.0	46.5	0.527	0.100	7.02	50.0	Linear	
1,3,5-Trimethylbenzene	1.50	1.54	1.54	0.100	-2.663	50.0	Averaged	
2-Chlorotoluene	1.47	1.37	1.37	0.100	7.16	50.0	Averaged	
4-Chlorotoluene	1.70	1.59	1.59	0.100	6.24	50.0	Averaged	
tert-Butylbenzene	1.37	1.37	1.37	0.100	0.172	50.0	Averaged	
1,2,4-Trimethylbenzene	1.55	1.50	1.50	0.100	3.24	50.0	Averaged	
sec-Butylbenzene	1.81	1.85	1.85	0.100	-2.563	50.0	Averaged	
p-Isopropyltoluene	1.54	1.57	1.57	0.100	-2.086	50.0	Averaged	
1,3-Dichlorobenzene	1.05	0.925	0.925	0.600	12.0	50.0	Averaged	
1,4-Dichlorobenzene	50.0	46.9	0.978	0.400	6.18	50.0	Linear	
Benzyl Chloride	50.0	35.0	0.217	0.010	30.1	50.0	Quadratic	
n-Butylbenzene	50.0	45.0	1.38	0.500	10.0	50.0	Linear	
1,2-Dichlorobenzene	50.0	46.6	0.919	0.400	6.84	50.0	Linear	
1,2-Dibromo-3-Chloropropane	50.0	40.9	0.066	0.050	18.1	50.0	Quadratic	
1,2,4-Trichlorobenzene	50.0	43.1	0.568	0.200	13.8	50.0	Linear	
Hexachlorobutadiene	0.286	0.269	0.269	0.100	6.00	50.0	Averaged	
Naphthalene	50.0	40.9	1.28	0.200	18.2	50.0	Linear	
1,2,3-Trichlorobenzene	0.576	0.512	0.512	0.100	11.1	50.0	Averaged	
Methyl Acetate	50.0	46.9	0.339	0.100	6.28	50.0	Linear	
Freon TF	0.246	0.253	0.253	0.100	-3.103	50.0	Averaged	
Cyclohexane	50.0	48.2	0.432	0.100	3.64	50.0	Linear	
Tetrahydrofuran	100	84.3	0.054	0.001	15.7	50.0	Linear	
Methylcyclohexane	0.575	0.500	0.500	0.100	13.1	50.0	Averaged	
1,4-Dioxane	1000	837	0.003	0.001	16.3	50.0	Linear	
n-Butanol	1000	737	0.008	0.005	26.3	50.0	Linear	
n-Hexane	50.0	49.3	0.310	0.100	1.42	50.0	Linear	
Diethyl ether	50.0	44.0	0.218	0.100	12.0	50.0	Linear	
Tert-butyl alcohol	1000	808	0.025	0.005	19.2	50.0	Linear	
Isopropyl alcohol	1000	801	0.020	0.005	19.9	50.0	Linear	
Diisopropyl ether	50.0	45.9	1.04	0.100	8.19	50.0	Linear	
Butyl acrylate	0.494	0.388	0.388	0.100	21.3	50.0	Averaged	
Dicyclopentadiene	50.0	43.2	2.05	0.100	13.6	50.0	Linear	
1,2,3-Trimethylbenzene	50.0	43.6	1.37	0.100	12.8	50.0	Linear	
Ethanol	1000	844	0.004	0.001	15.6	50.0	Linear	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder HS24051959

RunID U060629.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U060629.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 06-JUN-2024 2037
ICAL Date(s) 03-JUN-2024, 05-JUN-2024
ICAL Times 17:24, 22:12
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
tert-Butyl formate	100	79.4	0.236	0.100	20.6	50.0	Linear	
4-Methyl-2-pentanol	1000	745	0.056	0.005	25.5	50.0	Linear	
1,3-Butadiene	50.0	50.7	0.169	0.100	-1.404	50.0	Linear	
Epichlorohydrin	200	158	0.011	0.001	21.2	50.0	Quadratic	
94 1,2-Dichloroethylene (total	0.372	0.321	0.321	0.200	13.7	50.0	Averaged	
95 Xylenes (total)	0.395	0.390	0.390	0.100	1.36	50.0	Averaged	
alpha-Methylstyrene	0.609	0.578	0.578	0.100	5.11	50.0	Averaged	
Ethyl Acetate	++++	++++	8.246e+60	0.100	++++	50.0	Linear	*
Methyl Acrylate	50.0	41.8	0.338	0.100	16.5	50.0	Linear	
n-Butyl acetate	0.374	++++	8.246e+60	0.100	++++	50.0	Averaged	*
Cyclohexanone	1000	654	0.014	0.005	34.6	50.0	Quadratic	
Isoprene	0.084	0.078	0.078	0.010	6.77	50.0	Averaged	
Isopropyl acetate	50.0	43.1	0.614	0.100	13.8	50.0	Quadratic	
Allyl alcohol	1000	986	0.016	0.004	1.42	50.0	Linear	
Acetaldehyde	200	293	0.110	0.001	-46.484	50.0	Linear	
Dimethyl Disulfide	50.0	43.2	0.126	0.020	13.5	50.0	Quadratic	
Isobutylene	0.164	++++	8.246e+60	0.010	++++	50.0	Averaged	*
Ethyl Acrylate	0.845	0.726	0.726	0.100	14.0	50.0	Averaged	
Butyl methacrylate	50.0	45.8	0.472	0.100	8.32	50.0	Quadratic	
Propylene oxide	0.028	0.022	0.022	0.005	22.6	50.0	Averaged	
Ethylene oxide	++++	++++	8.246e+60	0.010	++++	50.0	Quadratic	*
2-Ethylhexyl Acrylate	50.0	42.2	0.445	0.100	15.6	50.0	Quadratic	
Tetrahydrothiophene	0.237	0.201	0.201	0.100	15.2	50.0	Averaged	
sec-Butyl Ether	0.612	0.276	0.276	0.100	54.9	50.0	Averaged	*

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder HS24051959

RunID UV60602.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID UV60602.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 06-JUN-2024 2142
ICAL Date(s) 03-JUN-2024, 05-JUN-2024
ICAL Times 17:24, 22:12
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Dichlorodifluoromethane	50.0	57.6	0.179	0.100	-15.240	20.0	Linear	
Chloromethane	50.0	58.5	0.669	0.100	-16.906	20.0	Linear	
Propionitrile	500	514	0.050	0.010	-2.742	20.0	Linear	
Vinyl Chloride	0.340	0.354	0.354	0.100	-4.405	20.0	Averaged	
Bromomethane	50.0	51.1	0.157	0.100	-2.261	20.0	Linear	
Chloroethane	50.0	52.3	0.257	0.100	-4.530	20.0	Linear	
Trichlorofluoromethane	0.438	0.474	0.474	0.100	-8.354	20.0	Averaged	
Acrolein	100	114	0.019	0.010	-14.128	20.0	Quadratic	
Acetone	100	109	0.145	0.100	-9.005	20.0	Linear	
1,1-Dichloroethene	0.287	0.292	0.292	0.100	-1.971	20.0	Averaged	
Isobutyl Alcohol	0.053	0.051	0.051	0.005	3.77	20.0	Averaged	
Acetonitrile	500	498	0.041	0.005	0.439	20.0	Linear	
Allyl Chloride	50.0	50.1	0.940	0.100	-0.275	20.0	Linear	
Iodomethane	100	139	0.100	0.100	-38.858	20.0	Quadratic	*
Acrylonitrile	100	100	0.126	0.050	-0.046	20.0	Linear	
Methylene Chloride	50.0	53.1	0.366	0.100	-6.242	20.0	Linear	
Methyl tert-butyl ether	50.0	49.0	0.834	0.100	2.08	20.0	Linear	
Carbon Disulfide	0.822	0.820	0.820	0.100	0.176	20.0	Averaged	
trans-1,2-Dichloroethene	50.0	51.4	0.316	0.100	-2.793	20.0	Linear	
Vinyl Acetate	100	98.0	0.191	0.010	2.00	20.0	Linear	
1,1-Dichloroethane	50.0	52.2	0.627	0.200	-4.317	20.0	Linear	
Chloroprene	0.510	0.523	0.523	0.100	-2.656	20.0	Averaged	
2-Butanone	100	101	0.186	0.100	-1.141	20.0	Linear	
Methacrylonitrile	50.0	47.6	0.210	0.100	4.82	20.0	Linear	
2,2-Dichloropropane	0.425	0.404	0.404	0.100	5.07	20.0	Averaged	
cis-1,2-Dichloroethene	50.0	50.9	0.375	0.100	-1.725	20.0	Linear	
Chloroform	0.659	0.631	0.631	0.200	4.20	20.0	Averaged	
Bromochloromethane	50.0	51.6	0.186	0.100	-3.168	20.0	Linear	
30 Dibromofluoromethane	0.360	0.382	0.382	0.100	-6.118	20.0	Averaged	
1,1,1-Trichloroethane	0.473	0.497	0.497	0.100	-5.000	20.0	Averaged	
1,1-Dichloropropene	0.323	0.319	0.319	0.100	1.10	20.0	Averaged	
1,2-Dichloroethane	50.0	51.8	0.358	0.100	-3.611	20.0	Linear	
Carbon Tetrachloride	0.266	0.276	0.276	0.100	-3.636	20.0	Averaged	
35 1,2-Dichloroethane-d4	0.439	0.476	0.476	0.100	-8.235	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder HS24051959

RunID UV60602.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID UV60602.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 06-JUN-2024 2142
ICAL Date(s) 03-JUN-2024, 05-JUN-2024
ICAL Times 17:24, 22:12
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Benzene	50.0	51.5	0.977	0.500	-3.071	20.0	Linear	
Trichloroethene	0.249	0.248	0.248	0.200	0.591	20.0	Averaged	
Bromodichloromethane	0.297	0.289	0.289	0.200	2.49	20.0	Averaged	
Methyl Methacrylate	50.0	48.8	0.149	0.100	2.48	20.0	Linear	
2-Chloroethylvinyl ether	100	88.2	0.053	0.001	11.8	20.0	Quadratic	
1,2-Dichloropropane	50.0	50.7	0.269	0.100	-1.485	20.0	Linear	
2-Nitropropane	0.072	0.080	0.080	0.000	-11.350	20.0	Averaged	
Dibromomethane	50.0	49.7	0.152	0.100	0.639	20.0	Linear	
4-Methyl-2-Pentanone	100	92.7	0.281	0.100	7.31	20.0	Linear	
cis-1,3-Dichloropropene	50.0	46.0	0.355	0.200	7.92	20.0	Linear	
48 Toluene-d8	1.00	1.13	1.13	0.100	-12.442	20.0	Averaged	
Ethyl Methacrylate	0.323	0.310	0.310	0.100	4.19	20.0	Averaged	
Toluene	1.12	1.12	1.12	0.400	-0.031	20.0	Averaged	
trans-1,3-Dichloropropene	50.0	45.3	0.290	0.100	9.40	20.0	Linear	
2-Hexanone	100	99.0	0.207	0.100	0.763	20.0	Linear	
1,1,2-Trichloroethane	50.0	51.2	0.217	0.100	-2.389	20.0	Linear	
1,3-Dichloropropane	50.0	51.2	0.467	0.100	-2.317	20.0	Linear	
Dibromochloromethane	50.0	47.6	0.251	0.100	4.75	20.0	Linear	
Tetrachloroethene	0.217	0.218	0.218	0.200	-0.393	20.0	Averaged	
1,2-Dibromoethane	50.0	50.0	0.250	0.100	0.061	20.0	Linear	
1-Chlorohexane	50.0	46.2	0.195	0.100	7.67	20.0	Linear	
Chlorobenzene	50.0	51.5	0.717	0.500	-3.063	20.0	Linear	
1,1,1,2-Tetrachloroethane	0.242	0.245	0.245	0.100	-1.581	20.0	Averaged	
Ethylbenzene	0.356	0.366	0.366	0.100	-2.777	20.0	Averaged	
m,p-Xylenes	0.443	0.468	0.468	0.100	-5.629	20.0	Averaged	
o-Xylene	0.429	0.456	0.456	0.300	-6.442	20.0	Averaged	
Styrene	0.693	0.742	0.742	0.300	-7.046	20.0	Averaged	
Bromoform	50.0	42.9	0.143	0.100	14.1	20.0	Linear	
Isopropylbenzene	1.02	1.14	1.14	0.100	-11.718	20.0	Averaged	
1,1,2,2-Tetrachloroethane	50.0	49.9	0.663	0.300	0.127	20.0	Linear	
69 4-Bromofluorobenzene	0.363	0.420	0.420	0.100	-15.593	20.0	Averaged	
1,2,3-Trichloropropane	50.0	46.8	0.636	0.100	6.43	20.0	Linear	
trans-1,4-Dichloro-2-butene	50.0	45.5	0.071	0.050	8.93	20.0	Linear	
n-Propylbenzene	2.27	2.47	2.47	0.100	-8.509	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder HS24051959

RunID UV60602.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID UV60602.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 06-JUN-2024 2142
ICAL Date(s) 03-JUN-2024, 05-JUN-2024
ICAL Times 17:24, 22:12
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Bromobenzene	50.0	50.7	0.575	0.100	-1.407	20.0	Linear	
1,3,5-Trimethylbenzene	1.50	1.69	1.69	0.100	-12.827	20.0	Averaged	
2-Chlorotoluene	1.47	1.50	1.50	0.100	-1.762	20.0	Averaged	
4-Chlorotoluene	1.70	1.72	1.72	0.100	-1.480	20.0	Averaged	
tert-Butylbenzene	1.37	1.48	1.48	0.100	-8.467	20.0	Averaged	
1,2,4-Trimethylbenzene	1.55	1.66	1.66	0.100	-7.072	20.0	Averaged	
sec-Butylbenzene	1.81	2.01	2.01	0.100	-11.222	20.0	Averaged	
p-Isopropyltoluene	1.54	1.72	1.72	0.100	-12.180	20.0	Averaged	
1,3-Dichlorobenzene	1.05	1.00	1.00	0.600	4.55	20.0	Averaged	
1,4-Dichlorobenzene	50.0	50.5	1.05	0.400	-0.979	20.0	Linear	
Benzyl Chloride	50.0	39.1	0.245	0.010	21.8	20.0	Quadratic	*
n-Butylbenzene	50.0	48.6	1.49	0.500	2.89	20.0	Linear	
1,2-Dichlorobenzene	50.0	51.4	1.01	0.400	-2.819	20.0	Linear	
1,2-Dibromo-3-Chloropropane	50.0	46.1	0.075	0.050	7.86	20.0	Quadratic	
1,2,4-Trichlorobenzene	50.0	47.3	0.626	0.200	5.31	20.0	Linear	
Hexachlorobutadiene	0.286	0.289	0.289	0.100	-0.834	20.0	Averaged	
Naphthalene	50.0	47.0	1.48	0.200	6.02	20.0	Linear	
1,2,3-Trichlorobenzene	0.576	0.580	0.580	0.100	-0.710	20.0	Averaged	
Methyl Acetate	50.0	51.7	0.373	0.100	-3.448	20.0	Linear	
Freon TF	0.246	0.267	0.267	0.100	-8.654	20.0	Averaged	
Cyclohexane	50.0	51.6	0.463	0.100	-3.252	20.0	Linear	
Tetrahydrofuran	100	100	0.064	0.001	0.069	20.0	Linear	
Methylcyclohexane	0.575	0.575	0.575	0.100	0.080	20.0	Averaged	
1,4-Dioxane	1000	1013	0.004	0.001	-1.341	20.0	Linear	
n-Butanol	1000	943	0.010	0.005	5.67	20.0	Linear	
n-Hexane	50.0	50.6	0.319	0.100	-1.154	20.0	Linear	
Diethyl ether	50.0	49.9	0.247	0.100	0.184	20.0	Linear	
Tert-butyl alcohol	1000	990	0.030	0.005	1.03	20.0	Linear	
Isopropyl alcohol	1000	1002	0.025	0.005	-0.227	20.0	Linear	
Diisopropyl ether	50.0	51.4	1.16	0.100	-2.798	20.0	Linear	
Butyl acrylate	0.494	0.449	0.449	0.100	9.05	20.0	Averaged	
Dicyclopentadiene	50.0	49.1	2.33	0.100	1.78	20.0	Linear	
1,2,3-Trimethylbenzene	50.0	49.1	1.54	0.100	1.76	20.0	Linear	
Ethanol	1000	1045	0.005	0.001	-4.532	20.0	Linear	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder HS24051959

RunID UV60602.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID UV60602.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 06-JUN-2024 2142
ICAL Date(s) 03-JUN-2024, 05-JUN-2024
ICAL Times 17:24, 22:12
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
tert-Butyl formate	100	100	0.298	0.100	-0.102	20.0	Linear	
4-Methyl-2-pentanol	1000	892	0.068	0.005	10.8	20.0	Linear	
1,3-Butadiene	50.0	54.5	0.182	0.100	-9.071	20.0	Linear	
Epichlorohydrin	200	195	0.013	0.001	2.56	20.0	Quadratic	
94 1,2-Dichloroethylene (total	0.372	0.345	0.345	0.200	7.05	20.0	Averaged	
95 Xylenes (total)	0.395	0.420	0.420	0.100	-6.152	20.0	Averaged	
alpha-Methylstyrene	0.609	0.645	0.645	0.100	-5.970	20.0	Averaged	
Ethyl Acetate	50.0	53.3	0.143	0.100	-6.587	20.0	Linear	
Methyl Acrylate	50.0	49.3	0.400	0.100	1.44	20.0	Linear	
n-Butyl acetate	0.374	0.341	0.341	0.100	8.89	20.0	Averaged	
Cyclohexanone	1000	1024	0.022	0.005	-2.361	20.0	Quadratic	
Isoprene	0.084	0.088	0.088	0.010	-4.949	20.0	Averaged	
Isopropyl acetate	50.0	48.8	0.698	0.100	2.32	20.0	Quadratic	
Allyl alcohol	1000	1012	0.016	0.004	-1.154	20.0	Linear	
Acetaldehyde	200	195	0.073	0.001	2.33	20.0	Linear	
Dimethyl Disulfide	50.0	50.6	0.153	0.020	-1.164	20.0	Quadratic	
Isobutylene	0.164	0.174	0.174	0.010	-6.627	20.0	Averaged	
Ethyl Acrylate	0.845	0.840	0.840	0.100	0.541	20.0	Averaged	
Butyl methacrylate	50.0	51.4	0.531	0.100	-2.847	20.0	Quadratic	
Propylene oxide	0.028	0.025	0.025	0.005	10.6	20.0	Averaged	
Ethylene oxide	100	50.8	0.364	0.010	49.2	20.0	Quadratic	*
2-Ethylhexyl Acrylate	50.0	49.2	0.527	0.100	1.60	20.0	Quadratic	
Tetrahydrothiophene	0.237	0.242	0.242	0.100	-2.040	20.0	Averaged	
sec-Butyl Ether	0.612	0.532	0.532	0.100	13.2	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder HS24051959

RunID UV60640.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID UV60640.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 07-JUN-2024 0921
ICAL Date(s) 03-JUN-2024, 05-JUN-2024
ICAL Times 17:24, 22:12
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Dichlorodifluoromethane	50.0	49.6	0.154	0.100	0.871	50.0	Linear	
Chloromethane	50.0	54.7	0.629	0.100	-9.493	50.0	Linear	
Propionitrile	500	441	0.043	0.010	11.8	50.0	Linear	
Vinyl Chloride	0.340	0.326	0.326	0.100	3.90	50.0	Averaged	
Bromomethane	50.0	46.0	0.142	0.100	8.04	50.0	Linear	
Chloroethane	50.0	49.7	0.244	0.100	0.653	50.0	Linear	
Trichlorofluoromethane	0.438	0.434	0.434	0.100	0.826	50.0	Averaged	
Acrolein	100	112	0.018	0.010	-11.729	50.0	Quadratic	
Acetone	100	85.3	0.114	0.100	14.7	50.0	Linear	
1,1-Dichloroethene	0.287	0.278	0.278	0.100	3.15	50.0	Averaged	
Isobutyl Alcohol	0.053	0.046	0.046	0.005	12.9	50.0	Averaged	
Acetonitrile	500	444	0.037	0.005	11.3	50.0	Linear	
Allyl Chloride	50.0	43.9	0.823	0.100	12.2	50.0	Linear	
Iodomethane	100	128	0.090	0.100	-28.431	50.0	Quadratic	
Acrylonitrile	100	87.9	0.111	0.050	12.1	50.0	Linear	
Methylene Chloride	50.0	49.8	0.344	0.100	0.400	50.0	Linear	
Methyl tert-butyl ether	50.0	44.4	0.757	0.100	11.2	50.0	Linear	
Carbon Disulfide	0.822	0.743	0.743	0.100	9.64	50.0	Averaged	
trans-1,2-Dichloroethene	50.0	47.5	0.291	0.100	5.06	50.0	Linear	
Vinyl Acetate	100	87.6	0.171	0.010	12.4	50.0	Linear	
1,1-Dichloroethane	50.0	49.1	0.590	0.200	1.76	50.0	Linear	
Chloroprene	0.510	0.488	0.488	0.100	4.19	50.0	Averaged	
2-Butanone	100	88.9	0.164	0.100	11.1	50.0	Linear	
Methacrylonitrile	50.0	41.3	0.182	0.100	17.4	50.0	Linear	
2,2-Dichloropropane	0.425	0.283	0.283	0.100	33.4	50.0	Averaged	
cis-1,2-Dichloroethene	50.0	48.1	0.355	0.100	3.71	50.0	Linear	
Chloroform	0.659	0.598	0.598	0.200	9.29	50.0	Averaged	
Bromochloromethane	50.0	49.5	0.178	0.100	1.01	50.0	Linear	
30 Dibromofluoromethane	0.360	0.381	0.381	0.100	-5.673	50.0	Averaged	
1,1,1-Trichloroethane	0.473	0.468	0.468	0.100	1.08	50.0	Averaged	
1,1-Dichloropropene	0.323	0.302	0.302	0.100	6.37	50.0	Averaged	
1,2-Dichloroethane	50.0	48.8	0.337	0.100	2.45	50.0	Linear	
Carbon Tetrachloride	0.266	0.263	0.263	0.100	1.43	50.0	Averaged	
35 1,2-Dichloroethane-d4	0.439	0.460	0.460	0.100	-4.597	50.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder HS24051959

RunID UV60640.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID UV60640.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 07-JUN-2024 0921
ICAL Date(s) 03-JUN-2024, 05-JUN-2024
ICAL Times 17:24, 22:12
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Benzene	50.0	48.9	0.927	0.500	2.17	50.0	Linear	
Trichloroethene	0.249	0.251	0.251	0.200	-0.606	50.0	Averaged	
Bromodichloromethane	0.297	0.280	0.280	0.200	5.78	50.0	Averaged	
Methyl Methacrylate	50.0	43.0	0.130	0.100	13.9	50.0	Linear	
2-Chloroethylvinyl ether	100	85.9	0.052	0.001	14.1	50.0	Quadratic	
1,2-Dichloropropane	50.0	48.8	0.259	0.100	2.34	50.0	Linear	
2-Nitropropane	0.072	0.066	0.066	0.000	8.97	50.0	Averaged	
Dibromomethane	50.0	48.8	0.149	0.100	2.43	50.0	Linear	
4-Methyl-2-Pentanone	100	87.6	0.265	0.100	12.4	50.0	Linear	
cis-1,3-Dichloropropene	50.0	42.3	0.325	0.200	15.4	50.0	Linear	
48 Toluene-d8	1.00	1.13	1.13	0.100	-12.078	50.0	Averaged	
Ethyl Methacrylate	0.323	0.278	0.278	0.100	13.9	50.0	Averaged	
Toluene	1.12	1.06	1.06	0.400	4.86	50.0	Averaged	
trans-1,3-Dichloropropene	50.0	40.8	0.260	0.100	18.3	50.0	Linear	
2-Hexanone	100	86.5	0.181	0.100	13.5	50.0	Linear	
1,1,2-Trichloroethane	50.0	48.6	0.206	0.100	2.87	50.0	Linear	
1,3-Dichloropropane	50.0	48.8	0.446	0.100	2.31	50.0	Linear	
Dibromochloromethane	50.0	45.0	0.237	0.100	9.94	50.0	Linear	
Tetrachloroethene	0.217	0.207	0.207	0.200	4.45	50.0	Averaged	
1,2-Dibromoethane	50.0	47.5	0.238	0.100	5.06	50.0	Linear	
1-Chlorohexane	50.0	42.8	0.180	0.100	14.5	50.0	Linear	
Chlorobenzene	50.0	49.5	0.688	0.500	1.08	50.0	Linear	
1,1,1,2-Tetrachloroethane	0.242	0.236	0.236	0.100	2.36	50.0	Averaged	
Ethylbenzene	0.356	0.345	0.345	0.100	3.22	50.0	Averaged	
m,p-Xylenes	0.443	0.438	0.438	0.100	1.07	50.0	Averaged	
o-Xylene	0.429	0.430	0.430	0.300	-0.382	50.0	Averaged	
Styrene	0.693	0.712	0.712	0.300	-2.656	50.0	Averaged	
Bromoform	50.0	40.7	0.135	0.100	18.7	50.0	Linear	
Isopropylbenzene	1.02	1.07	1.07	0.100	-5.234	50.0	Averaged	
1,1,2,2-Tetrachloroethane	50.0	43.2	0.574	0.300	13.7	50.0	Linear	
69 4-Bromofluorobenzene	0.363	0.420	0.420	0.100	-15.708	50.0	Averaged	
1,2,3-Trichloropropane	50.0	43.5	0.591	0.100	13.0	50.0	Linear	
trans-1,4-Dichloro-2-butene	50.0	37.6	0.058	0.050	24.9	50.0	Linear	
n-Propylbenzene	2.27	2.32	2.32	0.100	-1.850	50.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder HS24051959

RunID UV60640.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID UV60640.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 07-JUN-2024 0921
ICAL Date(s) 03-JUN-2024, 05-JUN-2024
ICAL Times 17:24, 22:12
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Bromobenzene	50.0	48.2	0.547	0.100	3.65	50.0	Linear	
1,3,5-Trimethylbenzene	1.50	1.58	1.58	0.100	-5.778	50.0	Averaged	
2-Chlorotoluene	1.47	1.41	1.41	0.100	4.18	50.0	Averaged	
4-Chlorotoluene	1.70	1.61	1.61	0.100	4.86	50.0	Averaged	
tert-Butylbenzene	1.37	1.40	1.40	0.100	-2.240	50.0	Averaged	
1,2,4-Trimethylbenzene	1.55	1.59	1.59	0.100	-2.949	50.0	Averaged	
sec-Butylbenzene	1.81	1.89	1.89	0.100	-4.272	50.0	Averaged	
p-Isopropyltoluene	1.54	1.59	1.59	0.100	-3.835	50.0	Averaged	
1,3-Dichlorobenzene	1.05	0.940	0.940	0.600	10.6	50.0	Averaged	
1,4-Dichlorobenzene	50.0	47.7	0.994	0.400	4.60	50.0	Linear	
Benzyl Chloride	50.0	23.4	0.141	0.010	53.1	50.0	Quadratic	*
n-Butylbenzene	50.0	44.0	1.35	0.500	12.1	50.0	Linear	
1,2-Dichlorobenzene	50.0	48.5	0.958	0.400	2.90	50.0	Linear	
1,2-Dibromo-3-Chloropropane	50.0	43.4	0.070	0.050	13.2	50.0	Quadratic	
1,2,4-Trichlorobenzene	50.0	43.9	0.579	0.200	12.2	50.0	Linear	
Hexachlorobutadiene	0.286	0.253	0.253	0.100	11.6	50.0	Averaged	
Naphthalene	50.0	43.9	1.38	0.200	12.2	50.0	Linear	
1,2,3-Trichlorobenzene	0.576	0.537	0.537	0.100	6.83	50.0	Averaged	
Methyl Acetate	50.0	43.9	0.318	0.100	12.3	50.0	Linear	
Freon TF	0.246	0.242	0.242	0.100	1.30	50.0	Averaged	
Cyclohexane	50.0	48.8	0.438	0.100	2.39	50.0	Linear	
Tetrahydrofuran	100	86.9	0.056	0.001	13.1	50.0	Linear	
Methylcyclohexane	0.575	0.518	0.518	0.100	10.0	50.0	Averaged	
1,4-Dioxane	1000	920	0.004	0.001	7.98	50.0	Linear	
n-Butanol	1000	854	0.009	0.005	14.6	50.0	Linear	
n-Hexane	50.0	37.7	0.236	0.100	24.7	50.0	Linear	
Diethyl ether	50.0	45.0	0.222	0.100	10.0	50.0	Linear	
Tert-butyl alcohol	1000	861	0.026	0.005	13.9	50.0	Linear	
Isopropyl alcohol	1000	877	0.022	0.005	12.3	50.0	Linear	
Diisopropyl ether	50.0	46.1	1.04	0.100	7.74	50.0	Linear	
Butyl acrylate	0.494	0.407	0.407	0.100	17.6	50.0	Averaged	
Dicyclopentadiene	50.0	45.4	2.16	0.100	9.13	50.0	Linear	
1,2,3-Trimethylbenzene	50.0	45.9	1.44	0.100	8.12	50.0	Linear	
Ethanol	1000	899	0.004	0.001	10.1	50.0	Linear	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder HS24051959

RunID UV60640.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID UV60640.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 07-JUN-2024 0921
ICAL Date(s) 03-JUN-2024, 05-JUN-2024
ICAL Times 17:24, 22:12
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
tert-Butyl formate	100	85.8	0.255	0.100	14.2	50.0	Linear	
4-Methyl-2-pentanol	1000	803	0.061	0.005	19.7	50.0	Linear	
1,3-Butadiene	50.0	48.4	0.161	0.100	3.20	50.0	Linear	
Epichlorohydrin	200	166	0.011	0.001	17.0	50.0	Quadratic	
94 1,2-Dichloroethylene (total	0.372	0.323	0.323	0.200	13.0	50.0	Averaged	
95 Xylenes (total)	0.395	0.394	0.394	0.100	0.503	50.0	Averaged	
alpha-Methylstyrene	0.609	0.621	0.621	0.100	-2.025	50.0	Averaged	
Ethyl Acetate	++++	++++	8.246e+60	0.100	++++	50.0	Linear	*
Methyl Acrylate	50.0	41.7	0.338	0.100	16.5	50.0	Linear	
n-Butyl acetate	0.374	++++	8.246e+60	0.100	++++	50.0	Averaged	*
Cyclohexanone	1000	718	0.015	0.005	28.2	50.0	Quadratic	
Isoprene	0.084	0.081	0.081	0.010	3.85	50.0	Averaged	
Isopropyl acetate	50.0	45.3	0.646	0.100	9.37	50.0	Quadratic	
Allyl alcohol	1000	753	0.012	0.004	24.7	50.0	Linear	
Acetaldehyde	200	269	0.101	0.001	-34.700	50.0	Linear	
Dimethyl Disulfide	50.0	45.6	0.135	0.020	8.83	50.0	Quadratic	
Isobutylene	0.164	++++	8.246e+60	0.010	++++	50.0	Averaged	*
Ethyl Acrylate	0.845	0.746	0.746	0.100	11.6	50.0	Averaged	
Butyl methacrylate	50.0	48.0	0.495	0.100	3.97	50.0	Quadratic	
Propylene oxide	0.028	0.023	0.023	0.005	19.5	50.0	Averaged	
Ethylene oxide	++++	++++	8.246e+60	0.010	++++	50.0	Quadratic	*
2-Ethylhexyl Acrylate	50.0	44.0	0.466	0.100	12.0	50.0	Quadratic	
Tetrahydrothiophene	0.237	0.210	0.210	0.100	11.5	50.0	Averaged	
sec-Butyl Ether	0.612	0.294	0.294	0.100	51.9	50.0	Averaged	*

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder HS24051959

RunID V060802.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID V060802.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 09-JUN-2024 0728
ICAL Date(s) 03-JUN-2024, 08-JUN-2024
ICAL Times 17:24, 19:08
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Dichlorodifluoromethane	50.0	42.5	0.270	0.100	15.1	20.0	Quadratic	
Chloromethane	50.0	42.4	0.625	0.100	15.2	20.0	Quadratic	
Propionitrile	500	497	0.048	0.010	0.652	20.0	Linear	
Vinyl Chloride	50.0	43.9	0.371	0.100	12.2	20.0	Quadratic	
Bromomethane	50.0	45.6	0.175	0.100	8.84	20.0	Quadratic	
Chloroethane	50.0	43.7	0.245	0.100	12.6	20.0	Quadratic	
Trichlorofluoromethane	0.493	0.427	0.427	0.100	13.2	20.0	Averaged	
Acrolein	100	104	0.016	0.010	-4.448	20.0	Quadratic	
Acetone	100	86.3	0.122	0.100	13.7	20.0	Quadratic	
1,1-Dichloroethene	0.310	0.255	0.255	0.100	17.8	20.0	Averaged	
Isobutyl Alcohol	1000	952	0.045	0.005	4.75	20.0	Quadratic	
Acetonitrile	500	444	0.034	0.005	11.2	20.0	Quadratic	
Allyl Chloride	50.0	45.7	0.830	0.100	8.60	20.0	Quadratic	
Iodomethane	100	81.8	0.085	0.100	18.2	20.0	Quadratic	*
Acrylonitrile	100	99.0	0.123	0.050	1.03	20.0	Quadratic	
Methylene Chloride	50.0	45.6	0.312	0.100	8.77	20.0	Quadratic	
Methyl tert-butyl ether	50.0	47.9	0.814	0.100	4.14	20.0	Quadratic	
Carbon Disulfide	0.917	0.716	0.716	0.100	21.9	20.0	Averaged	*
trans-1,2-Dichloroethene	50.0	44.2	0.273	0.100	11.6	20.0	Quadratic	
Vinyl Acetate	100	93.2	0.167	0.010	6.78	20.0	Quadratic	
1,1-Dichloroethane	50.0	44.2	0.528	0.200	11.7	20.0	Quadratic	
Chloroprene	0.550	0.448	0.448	0.100	18.6	20.0	Averaged	
2-Butanone	100	95.4	0.169	0.100	4.60	20.0	Quadratic	
Methacrylonitrile	50.0	48.6	0.209	0.100	2.74	20.0	Quadratic	
2,2-Dichloropropane	0.487	0.299	0.299	0.100	38.6	20.0	Averaged	*
cis-1,2-Dichloroethene	50.0	44.7	0.333	0.100	10.6	20.0	Quadratic	
Chloroform	50.0	44.7	0.539	0.200	10.6	20.0	Quadratic	
Bromochloromethane	50.0	45.8	0.167	0.100	8.32	20.0	Quadratic	
30 Dibromofluoromethane	50.0	55.8	0.360	0.100	-11.690	20.0	Quadratic	
1,1,1-Trichloroethane	0.498	0.423	0.423	0.100	15.0	20.0	Averaged	
1,1-Dichloropropene	50.0	43.4	0.278	0.100	13.3	20.0	Quadratic	
1,2-Dichloroethane	50.0	44.8	0.300	0.100	10.5	20.0	Linear	
Carbon Tetrachloride	0.275	0.223	0.223	0.100	19.0	20.0	Averaged	
35 1,2-Dichloroethane-d4	50.0	54.5	0.426	0.100	-8.939	20.0	Quadratic	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder HS24051959

RunID V060802.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID V060802.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 09-JUN-2024 0728
ICAL Date(s) 03-JUN-2024, 08-JUN-2024
ICAL Times 17:24, 19:08
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Benzene	50.0	44.5	0.850	0.500	11.0	20.0	Quadratic	
Trichloroethene	50.0	44.1	0.219	0.200	11.9	20.0	Linear	
Bromodichloromethane	0.302	0.248	0.248	0.200	17.8	20.0	Averaged	
Methyl Methacrylate	50.0	53.6	0.137	0.100	-7.227	20.0	Quadratic	
2-Chloroethylvinyl ether	100	94.3	0.056	0.001	5.73	20.0	Quadratic	
1,2-Dichloropropane	50.0	44.1	0.229	0.100	11.8	20.0	Quadratic	
2-Nitropropane	50.0	48.4	0.079	0.000	3.26	20.0	Quadratic	
Dibromomethane	50.0	44.6	0.134	0.100	10.8	20.0	Quadratic	
4-Methyl-2-Pentanone	100	93.2	0.262	0.100	6.80	20.0	Quadratic	
cis-1,3-Dichloropropene	0.373	0.319	0.319	0.200	14.4	20.0	Averaged	
48 Toluene-d8	50.0	57.9	1.09	0.100	-15.807	20.0	Quadratic	
Ethyl Methacrylate	50.0	48.4	0.306	0.100	3.15	20.0	Quadratic	
Toluene	50.0	44.5	0.984	0.400	10.9	20.0	Quadratic	
trans-1,3-Dichloropropene	0.297	0.260	0.260	0.100	12.3	20.0	Averaged	
2-Hexanone	100	103	0.186	0.100	-3.123	20.0	Quadratic	
1,1,2-Trichloroethane	50.0	44.6	0.189	0.100	10.8	20.0	Quadratic	
1,3-Dichloropropane	50.0	44.9	0.411	0.100	10.3	20.0	Quadratic	
Dibromochloromethane	0.242	0.224	0.224	0.100	7.75	20.0	Averaged	
Tetrachloroethene	0.226	0.192	0.192	0.200	15.0	20.0	Averaged	*
1,2-Dibromoethane	50.0	45.9	0.229	0.100	8.22	20.0	Quadratic	
1-Chlorohexane	50.0	41.1	0.159	0.100	17.8	20.0	Quadratic	
Chlorobenzene	50.0	44.4	0.629	0.500	11.2	20.0	Quadratic	
1,1,1,2-Tetrachloroethane	50.0	42.9	0.217	0.100	14.3	20.0	Linear	
Ethylbenzene	0.385	0.316	0.316	0.100	18.1	20.0	Averaged	
m,p-Xylenes	0.478	0.406	0.406	0.100	15.1	20.0	Averaged	
o-Xylene	0.467	0.399	0.399	0.300	14.6	20.0	Averaged	
Styrene	0.747	0.657	0.657	0.300	12.1	20.0	Averaged	
Bromoform	50.0	44.3	0.138	0.100	11.5	20.0	Quadratic	
Isopropylbenzene	1.12	0.978	0.978	0.100	12.6	20.0	Averaged	
1,1,2,2-Tetrachloroethane	50.0	46.1	0.602	0.300	7.77	20.0	Quadratic	
69 4-Bromofluorobenzene	50.0	55.0	0.383	0.100	-9.908	20.0	Quadratic	
1,2,3-Trichloropropane	50.0	44.3	0.591	0.100	11.4	20.0	Linear	
trans-1,4-Dichloro-2-butene	50.0	41.6	0.063	0.050	16.7	20.0	Quadratic	
n-Propylbenzene	2.43	2.10	2.10	0.100	13.6	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder HS24051959

RunID V060802.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID V060802.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 09-JUN-2024 0728
ICAL Date(s) 03-JUN-2024, 08-JUN-2024
ICAL Times 17:24, 19:08
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Bromobenzene	50.0	44.7	0.521	0.100	10.6	20.0	Quadratic	
1,3,5-Trimethylbenzene	50.0	43.9	1.48	0.100	12.2	20.0	Quadratic	
2-Chlorotoluene	50.0	47.0	1.39	0.100	6.01	10.0	Quadratic	
4-Chlorotoluene	1.84	1.49	1.49	0.100	19.0	20.0	Averaged	
tert-Butylbenzene	1.44	1.28	1.28	0.100	10.9	20.0	Averaged	
1,2,4-Trimethylbenzene	1.71	1.46	1.46	0.100	14.4	20.0	Averaged	
sec-Butylbenzene	1.94	1.69	1.69	0.100	12.9	20.0	Averaged	
p-Isopropyltoluene	1.67	1.44	1.44	0.100	14.0	20.0	Averaged	
1,3-Dichlorobenzene	50.0	43.9	0.890	0.600	12.2	20.0	Linear	
1,4-Dichlorobenzene	50.0	42.9	0.917	0.400	14.2	20.0	Quadratic	
Benzyl Chloride	50.0	29.7	0.200	0.010	40.5	20.0	Quadratic	*
n-Butylbenzene	1.53	1.21	1.21	0.500	20.5	20.0	Averaged	*
1,2-Dichlorobenzene	50.0	43.9	0.884	0.400	12.1	20.0	Quadratic	
1,2-Dibromo-3-Chloropropane	50.0	47.4	0.077	0.050	5.17	20.0	Quadratic	
1,2,4-Trichlorobenzene	0.719	0.574	0.574	0.200	20.1	20.0	Averaged	*
Hexachlorobutadiene	50.0	40.1	0.232	0.100	19.7	20.0	Quadratic	
Naphthalene	50.0	46.7	1.44	0.200	6.55	20.0	Quadratic	
1,2,3-Trichlorobenzene	50.0	44.4	0.532	0.100	11.2	20.0	Quadratic	
Methyl Acetate	50.0	47.1	0.261	0.100	5.86	20.0	Linear	
Freon TF	0.284	0.236	0.236	0.100	17.0	20.0	Averaged	
Cyclohexane	50.0	43.4	0.401	0.100	13.1	20.0	Quadratic	
Tetrahydrofuran	100	89.6	0.058	0.001	10.4	20.0	Quadratic	
Methylcyclohexane	50.0	45.7	0.527	0.100	8.50	20.0	Quadratic	
1,4-Dioxane	1000	1097	0.004	0.001	-9.745	20.0	Quadratic	
n-Butanol	1000	1067	0.010	0.005	-6.736	20.0	Quadratic	
n-Hexane	0.323	0.225	0.225	0.100	30.5	20.0	Averaged	*
Diethyl ether	50.0	45.9	0.228	0.100	8.12	20.0	Quadratic	
Tert-butyl alcohol	1000	1074	0.030	0.005	-7.392	20.0	Quadratic	
Isopropyl alcohol	1000	1064	0.023	0.005	-6.353	20.0	Quadratic	
Diisopropyl ether	50.0	46.3	1.01	0.100	7.44	20.0	Quadratic	
Butyl acrylate	50.0	48.5	0.432	0.100	2.93	20.0	Quadratic	
Dicyclopentadiene	50.0	48.0	2.15	0.100	4.07	20.0	Linear	
1,2,3-Trimethylbenzene	50.0	46.5	1.41	0.100	7.03	20.0	Quadratic	
Ethanol	1000	1056	0.004	0.001	-5.595	20.0	Quadratic	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder HS24051959

RunID V060802.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID V060802.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 09-JUN-2024 0728
ICAL Date(s) 03-JUN-2024, 08-JUN-2024
ICAL Times 17:24, 19:08
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
tert-Butyl formate	100	115	0.305	0.100	-15.207	20.0	Quadratic	
4-Methyl-2-pentanol	1000	1010	0.067	0.005	-1.046	20.0	Quadratic	
1,3-Butadiene	0.190	0.157	0.157	0.100	17.2	20.0	Averaged	
Epichlorohydrin	200	188	0.012	0.001	6.05	20.0	Quadratic	
94 1,2-Dichloroethylene (total	100	++++	0.303	0.200	++++	20.0	Linear	*
95 Xylenes (total)	0.426	0.360	0.360	0.100	15.5	20.0	Averaged	
alpha-Methylstyrene	0.667	0.581	0.581	0.100	12.8	20.0	Averaged	
Ethyl Acetate	50.0	48.2	0.116	0.100	3.65	20.0	Quadratic	
Methyl Acrylate	50.0	48.2	0.383	0.100	3.63	20.0	Linear	
n-Butyl acetate	50.0	45.9	0.387	0.100	8.28	20.0	Quadratic	
Cyclohexanone	1000	943	0.024	0.005	5.74	20.0	Quadratic	
Isoprene	50.0	41.1	0.067	0.010	17.9	20.0	Quadratic	
Isopropyl acetate	50.0	47.6	0.630	0.100	4.76	20.0	Quadratic	
Allyl alcohol	0.016	0.011	0.011	0.004	31.9	20.0	Averaged	*
Acetaldehyde	200	127	0.063	0.001	36.3	20.0	Quadratic	*
Dimethyl Disulfide	50.0	42.3	0.149	0.020	15.4	20.0	Quadratic	
Isobutylene	50.0	41.5	0.140	0.010	17.0	20.0	Quadratic	
Ethyl Acrylate	50.0	46.2	0.760	0.100	7.68	20.0	Quadratic	
Butyl methacrylate	50.0	51.4	0.460	0.100	-2.807	20.0	Quadratic	
Propylene oxide	100	100	0.028	0.005	0.316	20.0	Linear	
Ethylene oxide	100	86.5	0.500	0.010	13.5	20.0	Quadratic	
2-Ethylhexyl Acrylate	50.0	45.4	0.535	0.100	9.21	20.0	Quadratic	
Tetrahydrothiophene	50.0	49.2	0.281	0.100	1.63	0.000e+000	Quadratic	*
sec-Butyl Ether	50.0	50.4	0.538	0.100	-0.820	0.000e+000	Quadratic	*
n-Amyl acetate	50.0	46.7	0.387	0.100	6.51	20.0	Quadratic	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder HS24051959

RunID V060829.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID V060829.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 09-JUN-2024 1758
ICAL Date(s) 03-JUN-2024, 08-JUN-2024
ICAL Times 17:24, 19:08
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Dichlorodifluoromethane	50.0	46.1	0.293	0.100	7.73	50.0	Quadratic	
Chloromethane	50.0	49.5	0.722	0.100	0.932	50.0	Quadratic	
Propionitrile	500	458	0.044	0.010	8.47	50.0	Linear	
Vinyl Chloride	50.0	49.1	0.415	0.100	1.86	50.0	Quadratic	
Bromomethane	50.0	49.0	0.188	0.100	2.03	50.0	Quadratic	
Chloroethane	50.0	50.7	0.284	0.100	-1.496	50.0	Quadratic	
Trichlorofluoromethane	0.493	0.479	0.479	0.100	2.78	50.0	Averaged	
Acrolein	100	121	0.019	0.010	-20.792	50.0	Quadratic	
Acetone	100	87.4	0.123	0.100	12.6	50.0	Quadratic	
1,1-Dichloroethene	0.310	0.284	0.284	0.100	8.26	50.0	Averaged	
Isobutyl Alcohol	1000	1008	0.048	0.005	-0.822	50.0	Quadratic	
Acetonitrile	500	432	0.033	0.005	13.6	50.0	Quadratic	
Allyl Chloride	50.0	44.3	0.804	0.100	11.5	50.0	Quadratic	
Iodomethane	100	95.1	0.101	0.100	4.94	50.0	Quadratic	
Acrylonitrile	100	93.3	0.116	0.050	6.70	50.0	Quadratic	
Methylene Chloride	50.0	51.2	0.350	0.100	-2.490	50.0	Quadratic	
Methyl tert-butyl ether	50.0	45.8	0.779	0.100	8.38	50.0	Quadratic	
Carbon Disulfide	0.917	0.797	0.797	0.100	13.1	50.0	Averaged	
trans-1,2-Dichloroethene	50.0	49.2	0.304	0.100	1.57	50.0	Quadratic	
Vinyl Acetate	100	100	0.180	0.010	-0.227	50.0	Quadratic	
1,1-Dichloroethane	50.0	50.4	0.601	0.200	-0.728	50.0	Quadratic	
Chloroprene	0.550	0.507	0.507	0.100	7.82	50.0	Averaged	
2-Butanone	100	98.0	0.173	0.100	2.02	50.0	Quadratic	
Methacrylonitrile	50.0	47.7	0.205	0.100	4.55	50.0	Quadratic	
2,2-Dichloropropane	0.487	0.248	0.248	0.100	49.0	50.0	Averaged	
cis-1,2-Dichloroethene	50.0	50.3	0.374	0.100	-0.568	50.0	Quadratic	
Chloroform	50.0	51.2	0.616	0.200	-2.328	50.0	Quadratic	
Bromochloromethane	50.0	50.8	0.185	0.100	-1.626	50.0	Quadratic	
30 Dibromofluoromethane	50.0	56.7	0.365	0.100	-13.306	50.0	Quadratic	
1,1,1-Trichloroethane	0.498	0.478	0.478	0.100	3.83	50.0	Averaged	
1,1-Dichloropropene	50.0	47.5	0.305	0.100	5.00	50.0	Quadratic	
1,2-Dichloroethane	50.0	51.6	0.345	0.100	-3.113	50.0	Linear	
Carbon Tetrachloride	0.275	0.256	0.256	0.100	6.85	50.0	Averaged	
35 1,2-Dichloroethane-d4	50.0	55.3	0.432	0.100	-10.595	50.0	Quadratic	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder HS24051959

RunID V060829.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID V060829.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 09-JUN-2024 1758
ICAL Date(s) 03-JUN-2024, 08-JUN-2024
ICAL Times 17:24, 19:08
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Benzene	50.0	50.3	0.959	0.500	-0.521	50.0	Quadratic	
Trichloroethene	50.0	51.5	0.256	0.200	-2.967	50.0	Linear	
Bromodichloromethane	0.302	0.289	0.289	0.200	4.40	50.0	Averaged	
Methyl Methacrylate	50.0	45.8	0.117	0.100	8.30	50.0	Quadratic	
2-Chloroethylvinyl ether	100	87.8	0.051	0.001	12.2	50.0	Quadratic	
1,2-Dichloropropane	50.0	50.0	0.260	0.100	0.024	50.0	Quadratic	
2-Nitropropane	50.0	42.8	0.069	0.000	14.3	50.0	Quadratic	
Dibromomethane	50.0	50.6	0.152	0.100	-1.290	50.0	Quadratic	
4-Methyl-2-Pentanone	100	101	0.284	0.100	-0.753	50.0	Quadratic	
cis-1,3-Dichloropropene	0.373	0.335	0.335	0.200	10.3	50.0	Averaged	
48 Toluene-d8	50.0	58.5	1.11	0.100	-16.915	50.0	Quadratic	
Ethyl Methacrylate	50.0	45.7	0.289	0.100	8.53	50.0	Quadratic	
Toluene	50.0	50.0	1.10	0.400	0.036	50.0	Quadratic	
trans-1,3-Dichloropropene	0.297	0.276	0.276	0.100	7.07	50.0	Averaged	
2-Hexanone	100	95.8	0.173	0.100	4.19	50.0	Quadratic	
1,1,2-Trichloroethane	50.0	51.0	0.216	0.100	-2.064	50.0	Quadratic	
1,3-Dichloropropane	50.0	51.0	0.466	0.100	-2.035	50.0	Quadratic	
Dibromochloromethane	0.242	0.256	0.256	0.100	-5.598	50.0	Averaged	
Tetrachloroethene	0.226	0.211	0.211	0.200	6.49	50.0	Averaged	
1,2-Dibromoethane	50.0	50.5	0.252	0.100	-1.002	50.0	Quadratic	
1-Chlorohexane	50.0	44.4	0.172	0.100	11.2	50.0	Quadratic	
Chlorobenzene	50.0	50.5	0.715	0.500	-1.037	50.0	Quadratic	
1,1,1,2-Tetrachloroethane	50.0	48.8	0.248	0.100	2.31	50.0	Linear	
Ethylbenzene	0.385	0.362	0.362	0.100	6.01	50.0	Averaged	
m,p-Xylenes	0.478	0.451	0.451	0.100	5.55	50.0	Averaged	
o-Xylene	0.467	0.449	0.449	0.300	3.79	50.0	Averaged	
Styrene	0.747	0.733	0.733	0.300	1.91	50.0	Averaged	
Bromoform	50.0	47.8	0.150	0.100	4.45	50.0	Quadratic	
Isopropylbenzene	1.12	1.10	1.10	0.100	1.99	50.0	Averaged	
1,1,2,2-Tetrachloroethane	50.0	46.6	0.608	0.300	6.76	50.0	Quadratic	
69 4-Bromofluorobenzene	50.0	57.7	0.402	0.100	-15.426	50.0	Quadratic	
1,2,3-Trichloropropane	50.0	46.8	0.624	0.100	6.46	50.0	Linear	
trans-1,4-Dichloro-2-butene	50.0	39.9	0.061	0.050	20.1	50.0	Quadratic	
n-Propylbenzene	2.43	2.27	2.27	0.100	6.23	50.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder HS24051959

RunID V060829.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID V060829.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 09-JUN-2024 1758
ICAL Date(s) 03-JUN-2024, 08-JUN-2024
ICAL Times 17:24, 19:08
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Bromobenzene	50.0	48.8	0.569	0.100	2.31	50.0	Quadratic	
1,3,5-Trimethylbenzene	50.0	46.6	1.57	0.100	6.80	50.0	Quadratic	
2-Chlorotoluene	50.0	47.4	1.40	0.100	5.28	10.0	Quadratic	
4-Chlorotoluene	1.84	1.63	1.63	0.100	11.6	50.0	Averaged	
tert-Butylbenzene	1.44	1.41	1.41	0.100	2.06	50.0	Averaged	
1,2,4-Trimethylbenzene	1.71	1.53	1.53	0.100	10.5	50.0	Averaged	
sec-Butylbenzene	1.94	1.83	1.83	0.100	5.57	50.0	Averaged	
p-Isopropyltoluene	1.67	1.54	1.54	0.100	7.94	50.0	Averaged	
1,3-Dichlorobenzene	50.0	48.3	0.977	0.600	3.41	50.0	Linear	
1,4-Dichlorobenzene	50.0	47.5	1.01	0.400	4.92	50.0	Quadratic	
Benzyl Chloride	50.0	18.6	0.125	0.010	62.9	50.0	Quadratic	*
n-Butylbenzene	1.53	1.27	1.27	0.500	16.8	50.0	Averaged	
1,2-Dichlorobenzene	50.0	48.8	0.981	0.400	2.38	50.0	Quadratic	
1,2-Dibromo-3-Chloropropane	50.0	48.2	0.078	0.050	3.60	50.0	Quadratic	
1,2,4-Trichlorobenzene	0.719	0.600	0.600	0.200	16.5	50.0	Averaged	
Hexachlorobutadiene	50.0	41.2	0.238	0.100	17.5	50.0	Quadratic	
Naphthalene	50.0	48.5	1.49	0.200	2.94	50.0	Quadratic	
1,2,3-Trichlorobenzene	50.0	46.6	0.559	0.100	6.73	50.0	Quadratic	
Methyl Acetate	50.0	51.9	0.287	0.100	-3.720	50.0	Linear	
Freon TF	0.284	0.261	0.261	0.100	8.38	50.0	Averaged	
Cyclohexane	50.0	48.0	0.441	0.100	4.07	50.0	Quadratic	
Tetrahydrofuran	100	85.8	0.056	0.001	14.2	50.0	Quadratic	
Methylcyclohexane	50.0	43.1	0.497	0.100	13.7	50.0	Quadratic	
1,4-Dioxane	1000	951	0.004	0.001	4.87	50.0	Quadratic	
n-Butanol	1000	883	0.008	0.005	11.7	50.0	Quadratic	
n-Hexane	0.323	0.212	0.212	0.100	34.3	50.0	Averaged	
Diethyl ether	50.0	45.8	0.227	0.100	8.43	50.0	Quadratic	
Tert-butyl alcohol	1000	924	0.026	0.005	7.55	50.0	Quadratic	
Isopropyl alcohol	1000	935	0.020	0.005	6.49	50.0	Quadratic	
Diisopropyl ether	50.0	46.7	1.02	0.100	6.53	50.0	Quadratic	
Butyl acrylate	50.0	45.1	0.401	0.100	9.74	50.0	Quadratic	
Dicyclopentadiene	50.0	46.5	2.09	0.100	6.90	50.0	Linear	
1,2,3-Trimethylbenzene	50.0	43.5	1.32	0.100	13.0	50.0	Quadratic	
Ethanol	1000	915	0.004	0.001	8.55	50.0	Quadratic	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP-58

Workorder HS24051959

RunID V060829.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID V060829.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 09-JUN-2024 1758
ICAL Date(s) 03-JUN-2024, 08-JUN-2024
ICAL Times 17:24, 19:08
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
tert-Butyl formate	100	83.3	0.222	0.100	16.7	50.0	Quadratic	
4-Methyl-2-pentanol	1000	904	0.060	0.005	9.59	50.0	Quadratic	
1,3-Butadiene	0.190	0.172	0.172	0.100	9.54	50.0	Averaged	
Epichlorohydrin	200	161	0.010	0.001	19.3	50.0	Quadratic	
94 1,2-Dichloroethylene (total	100	++++	0.339	0.200	++++	50.0	Linear	*
95 Xylenes (total)	0.426	0.402	0.402	0.100	5.62	50.0	Averaged	
alpha-Methylstyrene	0.667	0.623	0.623	0.100	6.61	50.0	Averaged	
Ethyl Acetate	++++	++++	8.246e+60	0.100	++++	50.0	Quadratic	*
Methyl Acrylate	50.0	44.4	0.353	0.100	11.2	50.0	Linear	
n-Butyl acetate	50.0	49.7	0.420	0.100	0.611	50.0	Quadratic	
Cyclohexanone	1000	592	0.015	0.005	40.8	50.0	Quadratic	
Isoprene	50.0	48.8	0.080	0.010	2.43	50.0	Quadratic	
Isopropyl acetate	50.0	50.1	0.663	0.100	-0.212	50.0	Quadratic	
Allyl alcohol	0.016	0.011	0.011	0.004	34.3	50.0	Averaged	
Acetaldehyde	200	222	0.103	0.001	-10.797	50.0	Quadratic	
Dimethyl Disulfide	50.0	42.3	0.149	0.020	15.4	50.0	Quadratic	
Isobutylene	++++	++++	8.246e+60	0.010	++++	50.0	Quadratic	*
Ethyl Acrylate	50.0	43.6	0.716	0.100	12.9	50.0	Quadratic	
Butyl methacrylate	50.0	51.4	0.460	0.100	-2.791	50.0	Quadratic	
Propylene oxide	100	93.6	0.027	0.005	6.36	50.0	Linear	
Ethylene oxide	++++	++++	8.246e+60	0.010	++++	50.0	Quadratic	*
2-Ethylhexyl Acrylate	50.0	41.3	0.485	0.100	17.4	50.0	Quadratic	
Tetrahydrothiophene	50.0	44.8	0.256	0.100	10.5	0.000e+000	Quadratic	*
sec-Butyl Ether	50.0	28.3	0.299	0.100	43.3	0.000e+000	Quadratic	*
n-Amyl acetate	50.0	50.6	0.420	0.100	-1.266	50.0	Quadratic	

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Form 8

Internal Standard Area and RT Summary

<textMethods>

Workorder

HS24051959

Client

Bhate Environmental Associates, Inc.

Project

LHAAP-58

07/03/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 8 - Internal Standard Area and RT Summary

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051959

EPA SW8260

VOA7_469280		Pentafluorobenzene				1,4 Difluorobenzene				Chlorobenzene d5				1,4-Dichlorobenzene d4			
Sample ID	File ID	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
12-HOUR STD (CCV)	P061215.D	136740	#	5.13	#	219663	#	5.85	#	203093	#	8.47	#	100769	#	10.46	#
HS24051959-05	P061226.D	126040		5.13		211272		5.85		204942		8.47		99864		10.46	
HS24051959-06	P061227.D	125735		5.13		215513		5.85		207130		8.47		101570		10.46	
VBLKW-240612	P061218.D	127424		5.13		212721		5.85		208419		8.47		106198		10.46	
VLCSW-240612	P061216.D	134291		5.13		216595		5.85		203052		8.47		100804		10.46	
VLSDW-240612	P061217.D	134046		5.13		219214		5.85		196433		8.47		94263		10.46	
MS-ZZZZZZMS	P061223.D	126879		5.13		211768		5.85		202471		8.47		102863		10.46	
ZZZZZZMSD	P061224.D	125990		5.13		211883		5.85		201283		8.47		105473		10.46	

AREA UPPER LIMIT = +100% of STD IS Area
AREA LOWER LIMIT = - 50% of STD IS Area
RT - Retention IS - Internal StandardTime

RT UPPER LIMIT = + 0.50 of STD IS RT
RT LOWER LIMIT = - 0.50 of STD IS RT
CCV - Continuing Calibration Verification

- Area or RT Limit Flag
* - Value Outside Area or RT limits
H - Hour STD - Standard

Form 8 - Internal Standard Area and RT Summary

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051959

EPA SW8260

VOA9_468713		Pentafluorobenzene				1,4 Difluorobenzene				Chlorobenzene d5				1,4-Dichlorobenzene d4			
Sample ID	File ID	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
12-HOUR STD (CCV)	U060602.D	236447	#	4.81	#	341467	#	5.55	#	310220	#	8.18	#	166510	#	10.17	#
HS24051959-01	U060614.D	225962		4.82		334222		5.55		304271		8.19		150227		10.17	
HS24051959-02	U060615.D	221677		4.82		326753		5.55		298008		8.19		146250		10.17	
HS24051959-03	U060616.D	227090		4.81		332707		5.55		301221		8.18		149623		10.17	
HS24051959-04	U060617.D	223212		4.82		333562		5.55		300096		8.18		147634		10.17	
HS24051959-05	U060618.D	175146		4.82		256831		5.55		231579		8.18		109835		10.17	
HS24051959-06	U060619.D	174398		4.81		256395		5.55		229291		8.18		111383		10.17	
HS24051959-07	U060607.D	232699		4.81		344096		5.55		311401		8.18		151170		10.17	
HS24051959-07MS	U060608.D	241452		4.81		356892		5.55		322426		8.18		170439		10.17	
HS24051959-07MSD	U060609.D	239403		4.82		349170		5.55		315580		8.19		169818		10.17	
HS24051959-08	U060620.D	222297		4.81		326756		5.55		301976		8.18		151532		10.17	
HS24051959-09	U060621.D	218164		4.81		322073		5.55		296193		8.18		146320		10.17	
HS24051959-10	U060622.D	214876		4.82		322554		5.55		288471		8.19		146262		10.17	
HS24051959-11	U060623.D	223975		4.81		333924		5.55		301196		8.18		149658		10.17	
HS24051959-12	U060624.D	217943		4.81		321898		5.55		292517		8.18		141338		10.17	
HS24051959-13	U060625.D	216267		4.82		321524		5.55		291835		8.18		143395		10.17	
HS24051959-15	U060626.D	223507		4.81		327115		5.55		295306		8.18		144330		10.17	
HS24051959-16	U060627.D	220318		4.82		324247		5.55		294418		8.18		142750		10.17	
HS24051959-17	U060628.D	218196		4.81		324695		5.55		291492		8.18		141776		10.17	
HS24051959-18	U060613.D	229089		4.82		337303		5.55		300669		8.18		150619		10.17	
VBLKW-240606	U060606.D	235132		4.82		345676		5.55		308803		8.19		156761		10.17	
VLCSDW-240606	U060604.D	244305		4.82		356428		5.55		318679		8.18		169379		10.17	
VLCSW-240606	U060603.D	236067		4.81		346656		5.55		315190		8.18		164829		10.17	

AREA UPPER LIMIT = +100% of STD IS Area
AREA LOWER LIMIT = - 50% of STD IS Area
RT - Retention IS - Internal StandardTime

RT UPPER LIMIT = + 0.50 of STD IS RT
RT LOWER LIMIT = - 0.50 of STD IS RT
CCV - Continuing Calibration Verification

- Area or RT Limit Flag
* - Value Outside Area or RT limits
H - Hour STD - Standard

Form 8 - Internal Standard Area and RT Summary

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051959

EPA SW8260

VOA9_468791		Pentafluorobenzene				1,4 Difluorobenzene				Chlorobenzene d5				1,4-Dichlorobenzene d4			
Sample ID	File ID	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
12-HOUR STD (CCV)	UV60602.D	231831	#	4.81	#	338859	#	5.55	#	306561	#	8.18	#	165791	#	10.17	#
HS24051959-14	UV60627.D	222820		4.81		329312		5.55		300681		8.18		145456		10.17	
HS24051959-14MS	UV60629.D	226262		4.81		335077		5.55		301774		8.18		162829		10.17	
HS24051959-14MSD	UV60630.D	234368		4.82		341087		5.55		305056		8.18		164694		10.17	
VBLKW-240606	UV60606.D	231984		4.81		340997		5.55		305278		8.18		151631		10.17	
VLCSW-240606	UV60603.D	238533		4.81		351506		5.55		314020		8.18		168808		10.17	

AREA UPPER LIMIT = +100% of STD IS Area
AREA LOWER LIMIT = - 50% of STD IS Area
RT - Retention IS - Internal StandardTime

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RT LOWER LIMIT = - 0.50 of STD IS RT
CCV - Continuing Calibration Verification

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Form 8 - Internal Standard Area and RT Summary

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051959

EPA SW8260

VOA9_468948		Pentafluorobenzene				1,4 Difluorobenzene				Chlorobenzene d5				1,4-Dichlorobenzene d4			
Sample ID	File ID	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
12-HOUR STD (CCV)	V060802.D	302688	#	4.82	#	436281	#	5.55	#	388819	#	8.18	#	207997	#	10.17	#
HS24051959-05	V060822.D	289388		4.82		424667		5.55		378632		8.18		195448		10.17	
HS24051959-06	V060823.D	286038		4.81		418266		5.55		372112		8.18		190854		10.17	
VBLKW-240608	V060806.D	303197		4.81		441167		5.55		393365		8.18		205066		10.17	
VLCSDW-240608	V060804.D	301318		4.81		437472		5.55		391619		8.18		207920		10.17	
VLCSW-240608	V060803.D	300564		4.81		436367		5.55		383939		8.18		201847		10.17	
MS-ZZZZZZMS	V060808.D	306893		4.81		441407		5.55		396010		8.18		205924		10.17	
ZZZZZZMSD	V060809.D	309873		4.82		448932		5.55		395045		8.18		209660		10.17	

AREA UPPER LIMIT = +100% of STD IS Area
AREA LOWER LIMIT = - 50% of STD IS Area
RT - Retention IS - Internal StandardTime

RT UPPER LIMIT = + 0.50 of STD IS RT
RT LOWER LIMIT = - 0.50 of STD IS RT
CCV - Continuing Calibration Verification

- Area or RT Limit Flag
* - Value Outside Area or RT limits
H - Hour STD - Standard

Form 8 - Internal Standard Area and RT Summary

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder HS24051959

EPA SW8260

VOA9_469054		Pentafluorobenzene				1,4 Difluorobenzene				Chlorobenzene d5				1,4-Dichlorobenzene d4			
Sample ID	File ID	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
12-HOUR STD (CCV)	C061002.D	278604	#	4.81	#	402722	#	5.55	#	361518	#	8.18	#	195625	#	10.17	#
HS24051959-14	C061010.D	273189		4.81		399465		5.55		354828		8.18		177417		10.17	
HS24051959-14MS	C061012.D	264316		4.81		389168		5.55		347240		8.18		187212		10.17	
HS24051959-14MSD	C061013.D	264637		4.82		382851		5.55		347505		8.18		187181		10.17	
VBLKW-240610	C061006.D	271895		4.81		399825		5.55		359076		8.18		183459		10.17	
VLCSDW-240610	C061004.D	271545		4.82		395955		5.55		353494		8.18		192640		10.17	
VLCSW-240610	C061003.D	274868		4.81		404050		5.55		362164		8.18		192325		10.17	

AREA UPPER LIMIT = +100% of STD IS Area
AREA LOWER LIMIT = - 50% of STD IS Area
RT - Retention IS - Internal StandardTime

RT UPPER LIMIT = + 0.50 of STD IS RT
RT LOWER LIMIT = - 0.50 of STD IS RT
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- Area or RT Limit Flag
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Analysis Run Log

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24051959

Client

Bhate Environmental Associates, Inc.

Project

LHAAP-58

07/03/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder **HS24051959**

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA7-469269

Run ID VOA7_469269 **Start Date** 06/12/24 **EndDate** 06/12/24

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
11:43	VSTD00.5	ICAL1	VSTD00.5	P061203.D	06/12/24	1
12:05	VSTD001	ICAL2	VSTD001	P061204.D	06/12/24	1
12:28	VSTD002	ICAL3	VSTD002	P061205.D	06/12/24	1
12:51	VSTD005	ICAL4	VSTD005	P061206.D	06/12/24	1
13:14	VSTD010	ICAL5	VSTD010	P061207.D	06/12/24	1
13:37	VSTD020	ICAL6	VSTD020	P061208.D	06/12/24	1
14:00	VSTD050	ICAL7	VSTD050	P061209.D	06/12/24	1
14:23	VSTD100	ICAL8	VSTD100	P061210.D	06/12/24	1
14:46	VSTD200	ICAL9	VSTD200	P061211.D	06/12/24	1
16:17	VSTD050	ICV	VSTD050	P061215.D	06/12/24	1

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder **HS24051959**

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA7-469280

Run ID VOA7_469280 **Start Date** 06/12/24 **EndDate** 06/13/24

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
16:17	VSTD050	CCV	VSTD050	P061215.D	06/12/24	1
16:40	VLCSW-240612	LCS	VLCSW-240612	P061216.D	06/12/24	1
17:03	VLSDW-240612	LCSD	VLSDW-240612	P061217.D	06/12/24	1
17:26	VBLKW-240612	MBLK	VBLKW-240612	P061218.D	06/12/24	1
18:12	HS24060214-10	SAMP	ZZZZZZZZZZ	P061220.D	06/12/24	100
19:20	HS24060214-10MS	MS	ZZZZZZMS	P061223.D	06/12/24	100
19:43	HS24060214-10MSD	MSD	ZZZZZZMSD	P061224.D	06/12/24	100
20:29	HS24051959-05	SAMP	35AWW09_052924	P061226.D	06/12/24	1
20:52	HS24051959-06	SAMP	35AWW09_052924_a	P061227.D	06/12/24	1
21:38	HS24060434-02	SAMP	ZZZZZZZZZZ	P061229.D	06/12/24	1
22:01	HS24060434-04	SAMP	ZZZZZZZZZZ	P061230.D	06/12/24	1
22:23	HS24060434-06	SAMP	ZZZZZZZZZZ	P061231.D	06/12/24	1
22:46	HS24060434-08	SAMP	ZZZZZZZZZZ	P061232.D	06/12/24	1
23:09	HS24060434-10	SAMP	ZZZZZZZZZZ	P061233.D	06/12/24	1
23:32	HS24060487-01	SAMP	ZZZZZZZZZZ	P061234.D	06/12/24	1
23:55	HS24060487-02	SAMP	ZZZZZZZZZZ	P061235.D	06/12/24	1
00:20	HS24060487-03	SAMP	ZZZZZZZZZZ	P061236.D	06/13/24	10
00:45	HS24060434-07	SAMP	ZZZZZZZZZZ	P061237.D	06/13/24	25
01:08	HS24060434-05	SAMP	ZZZZZZZZZZ	P061238.D	06/13/24	1
01:31	HS24060434-01	SAMP	ZZZZZZZZZZ	P061239.D	06/13/24	250
01:54	HS24060434-03	SAMP	ZZZZZZZZZZ	P061240.D	06/13/24	100
02:40	VSTD050	CCV_END	VSTD050	P061242.D	06/13/24	1

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder **HS24051959**

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-468644

Run ID VOA9_468644 **Start Date** 06/05/24 **EndDate** 06/05/24

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
18:58	VSTD00.25	ICAL1	VSTD00.25	W060502.D	06/05/24	1
19:20	VSTD00.5	ICAL2	VSTD00.5	W060503.D	06/05/24	1
19:41	VSTD001	ICAL3	VSTD001	W060504.D	06/05/24	1
20:03	VSTD002	ICAL4	VSTD002	W060505.D	06/05/24	1
20:24	VSTD005	ICAL5	VSTD005	W060506.D	06/05/24	1
20:46	VSTD020	ICAL6	VSTD020	W060507.D	06/05/24	1
21:07	VSTD050	ICAL7	VSTD050	W060508.D	06/05/24	1
21:29	VSTD100	ICAL8	VSTD100	W060509.D	06/05/24	1
21:50	VSTD150	ICAL9	VSTD150	W060510.D	06/05/24	1
22:12	VSTD200	ICAL	VSTD200	W060511.D	06/05/24	1
23:38	VSTD050	ICV	VSTD050	W060514A.D	06/05/24	1

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder **HS24051959**

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-468713

Run ID VOA9_468713 **Start Date** 06/06/24 **EndDate** 06/06/24

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
10:50	VSTD050	CCV	VSTD050	U060602.D	06/06/24	1
11:12	VLCSW-240606	LCS	VLCSW-240606	U060603.D	06/06/24	1
11:33	VLCSDW-240606	LCSD	VLCSDW-240606	U060604.D	06/06/24	1
12:16	VBLKW-240606	MBLK	VBLKW-240606	U060606.D	06/06/24	1
12:37	HS24051959-07	SAMP	35AWW21_052924	U060607.D	06/06/24	1
12:59	HS24051959-07MS	MS	HS24051959-07MS	U060608.D	06/06/24	1
13:20	HS24051959-07MSD	MSD	HS24051959-07MSD	U060609.D	06/06/24	1
13:44	HS24051535-03	SAMP	ZZZZZZZZZZ	U060610.D	06/06/24	25
14:27	HS24052045-06	SAMP	ZZZZZZZZZZ	U060612.D	06/06/24	1
14:49	HS24051959-18	SAMP	Trip Blank	U060613.D	06/06/24	1
15:11	HS24051959-01	SAMP	35AWW15_052924	U060614.D	06/06/24	1
15:32	HS24051959-02	SAMP	35AWW26_052924	U060615.D	06/06/24	1
15:54	HS24051959-03	SAMP	35AWW05_052924	U060616.D	06/06/24	1
16:15	HS24051959-04	SAMP	35AWW24_052924	U060617.D	06/06/24	1
16:39	HS24051959-05	SAMP	35AWW09_052924	U060618.D	06/06/24	5
17:03	HS24051959-06	SAMP	35AWW09_052924_a	U060619.D	06/06/24	5
17:24	HS24051959-08	SAMP	35AWW22_052924	U060620.D	06/06/24	1
17:46	HS24051959-09	SAMP	35AWW12_052924	U060621.D	06/06/24	1
18:07	HS24051959-10	SAMP	03WW01_052824	U060622.D	06/06/24	1
18:29	HS24051959-11	SAMP	35AWW08_052824	U060623.D	06/06/24	1
18:50	HS24051959-12	SAMP	35AWW01_052824	U060624.D	06/06/24	1
19:12	HS24051959-13	SAMP	35AWW13_052824	U060625.D	06/06/24	1
19:33	HS24051959-15	SAMP	LHSMW06_052824	U060626.D	06/06/24	1
19:54	HS24051959-16	SAMP	LHSMW06_052824_a	U060627.D	06/06/24	1
20:16	HS24051959-17	SAMP	35AWW16_052824	U060628.D	06/06/24	1
20:37	VSTD050	CCV_END	VSTD050	U060629.D	06/06/24	1

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder **HS24051959**

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-468791

Run ID VOA9_468791 **Start Date** 06/06/24 **EndDate** 06/07/24

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
21:42	VSTD050	CCV	VSTD050	UV60602.D	06/06/24	1
22:25	VLCSW-240606	LCS	VLCSW-240606	UV60603.D	06/06/24	1
23:29	VBLKW-240606	MBLK	VBLKW-240606	UV60606.D	06/06/24	1
07:55	HS24051959-14	SAMP	35AWW10_052824	UV60627.D	06/07/24	1
08:38	HS24051959-14MS	MS	HS24051959-14MS	UV60629.D	06/07/24	1
09:00	HS24051959-14MSD	MSD	HS24051959-14MSD	UV60630.D	06/07/24	1
09:21	VSTD050	CCV_END	VSTD050	UV60640.D	06/07/24	1

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder **HS24051959**

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-468905

Run ID VOA9_468905 **Start Date** 06/08/24 **EndDate** 06/08/24

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
15:54	VSTD00.25	ICAL1	VSTD00.25	C060802.D	06/08/24	1
16:16	VSTD00.5	ICAL2	VSTD00.5	C060803.D	06/08/24	1
16:37	VSTD001	ICAL3	VSTD001	C060804.D	06/08/24	1
16:59	VSTD002	ICAL4	VSTD002	C060805.D	06/08/24	1
17:20	VSTD005	ICAL5	VSTD005	C060806.D	06/08/24	1
17:42	VSTD020	ICAL6	VSTD020	C060807.D	06/08/24	1
18:03	VSTD050	ICAL7	VSTD050	C060808.D	06/08/24	1
18:25	VSTD100	ICAL8	VSTD100	C060809.D	06/08/24	1
18:46	VSTD150	ICAL9	VSTD150	C060810.D	06/08/24	1
19:08	VSTD200	ICAL	VSTD200	C060811.D	06/08/24	1
20:12	VSTD050	ICV	VSTD050	C060814.D	06/08/24	1

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder
HS24051959

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID
VOA9-468948

Run ID VOA9_468948 **Start Date** 06/09/24 **EndDate** 06/09/24

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
07:28	VSTD050	CCV	VSTD050	V060802.D	06/09/24	1
08:11	VLCSW-240608	LCS	VLCSW-240608	V060803.D	06/09/24	1
08:33	VLCSDW-240608	LCSD	VLCSDW-240608	V060804.D	06/09/24	1
09:16	VBLKW-240608	MBLK	VBLKW-240608	V060806.D	06/09/24	1
09:37	HS24060349-12	SAMP	ZZZZZZZZZZ	V060807.D	06/09/24	1
09:59	HS24060349-12MS	MS	ZZZZZZMS	V060808.D	06/09/24	1
10:21	HS24060349-12MSD	MSD	ZZZZZZMSD	V060809.D	06/09/24	1
15:28	HS24051959-05	SAMP	35AWW09_052924	V060822.D	06/09/24	1
15:49	HS24051959-06	SAMP	35AWW09_052924_a	V060823.D	06/09/24	1
17:58	VSTD050	CCV_END	VSTD050	V060829.D	06/09/24	1

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project LHAAP-58

Workorder **HS24051959**

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-469054

Run ID VOA9_469054 **Start Date** 06/10/24 **EndDate** 06/10/24

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
09:47	VSTD050	CCV	VSTD050	C061002.D	06/10/24	1
10:09	VLCSW-240610	LCS	VLCSW-240610	C061003.D	06/10/24	1
10:30	VLCSDW-240610	LCSD	VLCSDW-240610	C061004.D	06/10/24	1
11:13	VBLKW-240610	MBLK	VBLKW-240610	C061006.D	06/10/24	1
13:02	HS24051959-14	SAMP	35AWW10_052824	C061010.D	06/10/24	1
13:48	HS24051959-14MS	MS	HS24051959-14MS	C061012.D	06/10/24	1
14:09	HS24051959-14MSD	MSD	HS24051959-14MSD	C061013.D	06/10/24	1
14:52	HS24052045-01	SAMP	ZZZZZZZZZZ	C061015.D	06/10/24	1
15:13	HS24052045-02	SAMP	ZZZZZZZZZZ	C061016.D	06/10/24	1
15:35	HS24052045-03	SAMP	ZZZZZZZZZZ	C061017.D	06/10/24	1
15:56	HS24052045-04	SAMP	ZZZZZZZZZZ	C061018.D	06/10/24	1
16:18	HS24052045-05	SAMP	ZZZZZZZZZZ	C061019.D	06/10/24	1
19:53	VSTD050	CCV_END	VSTD050	C061041.D	06/10/24	1

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right partner.

RawData

<textMethods>

Workorder

HS24051959

Client

Bhate Environmental Associates, Inc.

Project

LHAAP-58

07/03/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Data File: \\nahstws005\Target\chem\voa7.i\P240612.b\P061202.D Page 1
Report Date: 13-Jun-2024 09:46

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa7.i\P240612.b\P061202.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 12-JUN-2024 11:20
Operator : AP Inst ID: voa7.i
Smp Info : BFB
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240612.b\bfb.m
Meth Date : 25-Mar-2024 14:28 apoluri Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 5 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAHSTW7066

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	2.000	Injection Volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/l)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
9.473	9.474	(0.000)	95	61208			0.00- 100.00	100.00
9.473	9.474	(0.000)	50	12987			15.00- 40.00	21.22
9.473	9.474	(0.000)	75	31520			30.00- 60.00	51.50
9.473	9.474	(0.000)	96	3974			5.00- 9.00	6.49
9.473	9.474	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
9.473	9.474	(0.000)	174	48440			50.00- 0.00	79.14
9.473	9.474	(0.000)	175	3694			5.00- 9.00	7.63
9.473	9.474	(0.000)	176	46752			95.00- 101.00	96.52
9.473	9.474	(0.000)	177	2945			5.00- 9.00	6.30

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	21.22
75	30.00 - 60.00% of mass 95	51.50
96	5.00 - 9.00% of mass 95	6.49
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	79.14
175	5.00 - 9.00% of mass 174	6.04 (7.63)
176	95.00 - 101.00% of mass 174	76.38 (96.52)
177	5.00 - 9.00% of mass 176	4.81 (6.30)

Data File: P061202.D
Spectrum: Avg. Scans 2762-2766 (9.47)
Location of Maximum: 95.00
Number of points: 68

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	581	62.00	3109	86.00	31	129.00	47
37.00	3396	63.00	2281	87.00	2072	130.00	230
38.00	3042	64.00	213	88.00	2068	135.00	64
39.00	1181	67.00	106	91.00	221	141.00	619
40.00	184	68.00	6505	92.00	1662	142.00	69
44.00	639	69.00	6848	93.00	2633	143.00	808
45.00	527	70.00	434	94.00	6920	146.00	31
47.00	762	72.00	340	95.00	61208	148.00	142
48.00	424	73.00	2800	96.00	3974	155.00	81
49.00	2929	74.00	10619	97.00	111	172.00	50
50.00	12987	75.00	31520	104.00	274	174.00	48440
51.00	4026	76.00	2757	105.00	33	175.00	3694
52.00	152	77.00	315	106.00	250	176.00	46752
55.00	181	78.00	157	116.00	180	177.00	2945
56.00	897	79.00	1480	117.00	375		
57.00	1596	80.00	424	118.00	175		
60.00	565	81.00	1491	119.00	264		
61.00	3004	82.00	316	128.00	211		

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061203.D Page 1
Report Date: 22-Jun-2024 12:21

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061203.D
Lab Smp Id: VSTD00.5 Client Smp ID: VSTD00.5
Inj Date : 12-JUN-2024 11:43
Operator : AP Inst ID: voa7.i
Smp Info : VSTD00.5
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240612.b\8260W.m
Meth Date : 22-Jun-2024 12:21 voa7.i Quant Type: ISTD
Cal Date : 12-JUN-2024 11:43 Cal File: P061203.D
Als bottle: 6 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	5.133	5.133	(1.000)	121656	50.0000	
2 Dichlorodifluoromethane	85	1.297	1.297	(0.253)	1093	0.50000	0.66(a)
159 Dichlorofluoromethane	67	2.075	2.075	(0.404)	1360	0.50000	0.54(aM)
3 Chloromethane	50	1.448	1.448	(0.282)	2074	0.50000	0.34(a)
4 Propionitrile	54	4.683	4.683	(0.912)	1322	5.00000	3.02(aM)
5 Vinyl Chloride	62	1.532	1.532	(0.298)	1472	0.50000	0.73(a)
6 Bromomethane	94	1.811	1.811	(0.353)	1396	0.50000	0.51(a)
7 Chloroethane	64	1.895	1.895	(0.369)	1072	0.50000	0.65(a)
8 Trichlorofluoromethane	101	2.110	2.110	(0.411)	1621	0.50000	0.97(a)
11 1,1-Dichloroethene	96	2.593	2.593	(0.505)	724	0.50000	0.61(a)
12 Isobutyl Alcohol	43	5.573	5.573	(1.086)	4080	10.0000	5.61(a)
13 Acetonitrile	39	2.962	2.962	(0.577)	1111	5.00000	4.08(a)
15 Iodomethane	142	2.734	2.734	(0.533)	229	1.00000	5.34(M)
16 Acrylonitrile	53	3.387	3.387	(0.660)	660	1.00000	1.17(a)
17 Methylene Chloride	84	3.094	3.094	(0.603)	2439	0.50000	0.50(a)
18 Methyl tert-butyl ether	73	3.387	3.387	(0.660)	2199	0.50000	1.59
19 Carbon Disulfide	76	2.795	2.795	(0.545)	6927	1.00000	2.19
20 trans-1,2-Dichloroethene	96	3.377	3.377	(0.658)	816	0.50000	0.62(a)
21 Vinyl Acetate	43	4.657	4.657	(0.907)	1782	1.00000	0.76(a)
22 1,1-Dichloroethane	63	3.863	3.863	(0.753)	2252	0.50000	0.75(Ta)

23 Chloroprene	53	3.966	3.966 (0.773)	1484	0.50000	0.65(aM)
24 2-Butanone	43	4.599	4.599 (0.896)	2105	1.00000	1.13(a)

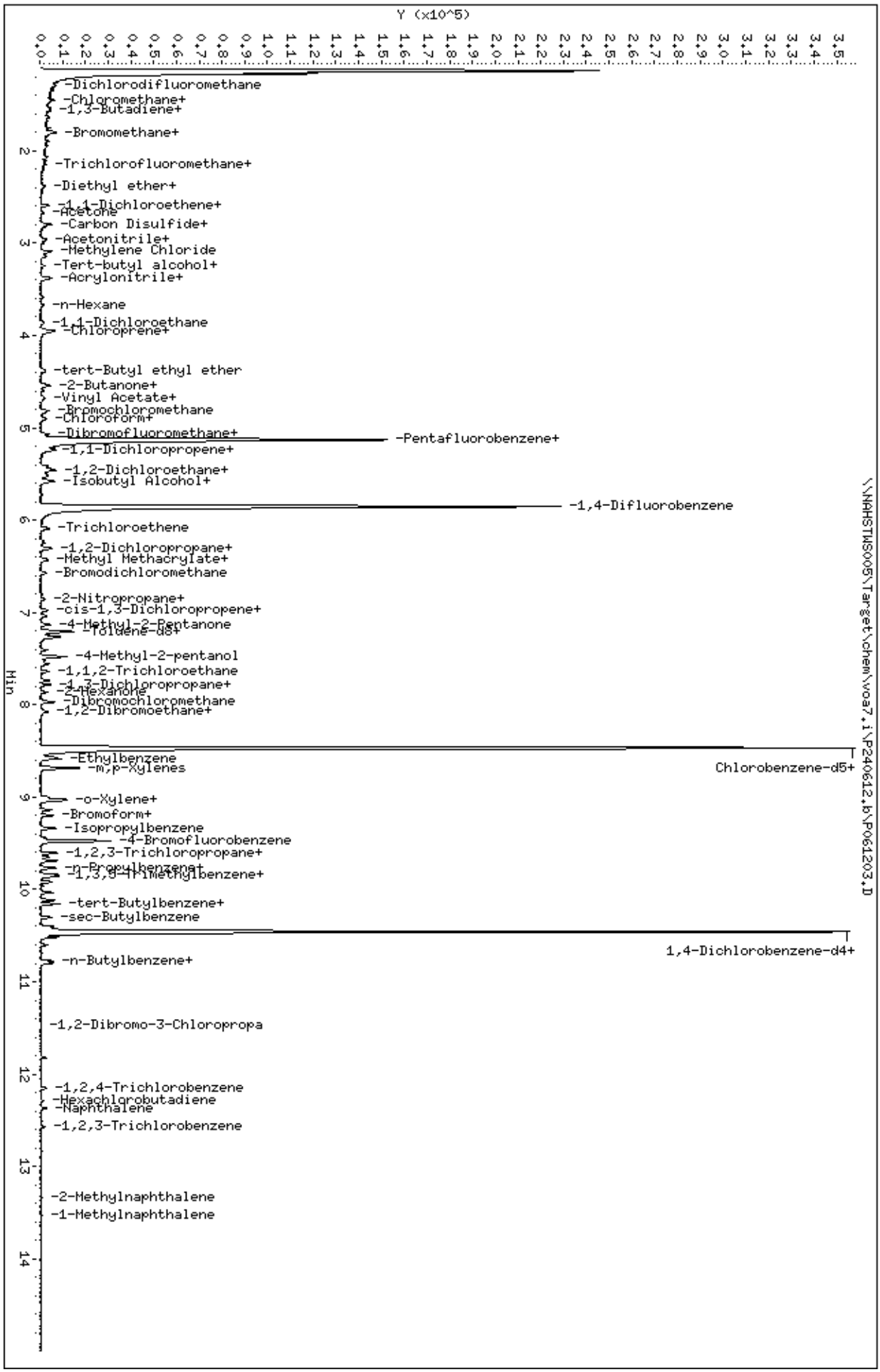
			QUANT SIG					AMOUNTS	
								CAL-AMT	ON-COL
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
	25	Methacrylonitrile	41	2.152	2.152	(0.419)	1023	0.50000	1.63(TaM)
	26	2,2-Dichloropropane	77	4.541	4.541	(0.885)	1654	0.50000	1.21
	27	cis-1,2-Dichloroethene	96	4.544	4.544	(0.885)	1278	0.50000	0.90(a)
	28	Chloroform	83	4.901	4.901	(0.955)	2578	0.50000	0.71(a)
$	30	Dibromofluoromethane	113	5.069	5.069	(0.987)	1653	0.50000	0.83(a)
	31	1,1,1-Trichloroethane	97	5.069	5.069	(0.987)	1701	0.50000	1.21
	32	1,1-Dichloropropene	75	5.245	5.245	(0.896)	1918	0.50000	1.23
	33	1,2-Dichloroethane	62	5.487	5.487	(0.937)	1842	0.50000	0.44(a)
	34	Carbon Tetrachloride	117	5.236	5.236	(0.895)	1649	0.50000	1.45
$	35	1,2-Dichloroethane-d4	65	5.422	5.422	(1.056)	2754	0.50000	0.84(a)
*	36	1,4-Difluorobenzene	114	5.853	5.853	(1.000)	200087	50.0000	
	37	Benzene	78	5.454	5.454	(0.932)	5601	0.50000	0.74(a)
	38	Trichloroethene	130	6.088	6.088	(1.040)	1116	0.50000	0.79(a)
	39	Bromodichloromethane	83	6.570	6.570	(1.122)	1982	0.50000	1.03(M)
	41	2-Chloroethylvinyl ether	63	6.856	6.856	(1.171)	845	1.00000	0.91(aM)
	42	1,2-Dichloropropane	63	6.303	6.303	(1.077)	1394	0.50000	0.76(a)
	43	2-Nitropropane	43	6.798	6.798	(1.324)	364	0.50000	1.43(a)
	44	Dibromomethane	93	6.422	6.422	(1.097)	739	0.50000	0.69(a)
	46	cis-1,3-Dichloropropene	75	6.972	6.972	(1.191)	1985	0.50000	1.63
*	47	Chlorobenzene-d5	117	8.467	8.467	(1.000)	186770	50.0000	
$	48	Toluene-d8	98	7.207	7.207	(0.851)	10382	0.50000	0.98(a)
	49	Ethyl Methacrylate	69	8.075	8.075	(1.380)	670	0.50000	0.77(aM)
	51	trans-1,3-Dichloropropene	75	6.972	6.972	(1.191)	1985	0.50000	1.63
	55	Dibromochloromethane	129	7.975	7.975	(0.942)	1235	0.50000	0.63(a)
	56	Tetrachloroethene	164	7.737	7.737	(0.914)	867	0.50000	0.43(a)
	59	Chlorobenzene	112	8.493	8.493	(1.003)	3539	0.50000	0.22(a)
	60	1,1,1,2-Tetrachloroethane	131	8.567	8.567	(1.012)	1160	0.50000	0.84(a)
	61	Ethylbenzene	106	8.583	8.583	(1.014)	1538	0.50000	0.37(a)
	62	m,p-Xylenes	106	8.683	8.683	(1.025)	4347	1.00000	0.76(a)
	64	Styrene	104	9.043	9.043	(1.068)	3179	0.50000	0.51(a)
	66	Bromoform	173	9.203	9.203	(1.087)	644	0.50000	0.85(Ta)
	67	Isopropylbenzene	105	9.342	9.342	(1.103)	4616	0.50000	0.31(a)
$	69	4-Bromofluorobenzene	95	9.470	9.470	(1.118)	9582	0.50000	3.33
*	70	1,4-Dichlorobenzene-d4	152	10.457	10.457	(1.000)	84805	50.0000	
	82	p-Isopropyltoluene	119	10.425	10.425	(0.997)	3153	0.50000	0.65(a)
	87	n-Butylbenzene	91	10.772	10.772	(1.030)	2707	0.50000	0.61(a)
	90	1,2,4-Trichlorobenzene	180	12.155	12.155	(1.162)	1060	0.50000	0.80(a)
	92	Naphthalene	128	12.374	12.374	(1.183)	2539	0.50000	0.74(a)
	93	1,2,3-Trichlorobenzene	182	12.563	12.563	(1.201)	874	0.50000	1.03(TM)
	146	Methyl acetate	43	3.001	3.001	(0.585)	1098	0.50000	0.35(aM)
	138	Freon TF	101	2.593	2.593	(0.505)	660	0.50000	1.12
	139	Diethyl ether	59	2.374	2.374	(0.463)	418	0.50000	0.86(a)
	140	1,3-Butadiene	54	1.557	1.557	(0.303)	396	0.50000	1.33(a)
	141	Cyclohexane	56	5.130	5.130	(0.999)	3622	0.50000	1.52(a)
	147	Methylcyclohexane	83	6.245	6.245	(1.067)	580	0.50000	1.29
	133	Ethyl Acrylate	55	6.220	6.220	(1.212)	1514	0.50000	0.43(aM)
	136	n-Hexane	57	3.670	3.670	(0.715)	630	0.50000	1.50
	142	Tetrahydrofuran	42	4.866	4.866	(0.948)	212	1.00000	1.65(aM)
	149	Isopropyl alcohol	45	2.824	2.824	(0.550)	1271	10.0000	14.38(aM)
	151	4-Methyl-2-pentanol	45	7.480	7.480	(0.883)	6970	10.0000	21.88
	157	2-Methylnaphthalene	142	13.338	13.338	(1.275)	184	0.50000	3.16(M)
	156	Diisopropyl ether	45	3.953	3.953	(0.770)	2859	0.50000	0.84(aM)

171 1-Methylnaphthalene	142	13.528	13.528 (1.294)	153	0.50000	2.78
130 Ethyl Acetate	43	3.946	3.946 (0.769)	8116	0.50000	1.48(aM)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
160 Epichlorohydrin	57	6.911	6.911	(1.181)	102	2.00000	0.62(a)
161 Butyl acrylate	55	9.001	9.001	(1.063)	2462	0.50000	1.14(a)
183 Isopropyl Acetate	43	5.573	5.573	(0.952)	4080	0.50000	0.09(aA)
184 n-Amyl acetate	43	9.194	9.194	(1.086)	2963	0.50000	1.93(aA)
185 Acetaldehyde	44	1.625	1.625	(0.317)	4899	2.00000	(aM)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
    exceeded maximum amount.
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061203.D
Date : 12-JUN-2024 11:43
Client ID: VSTD00.5
Sample Info: VSTD00.5
Purge Volume: 5.0
Column phase: DB624

Instrument: voa7.i
Operator: AP
Column diameter: 0.18

\\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061203.D

Page 1

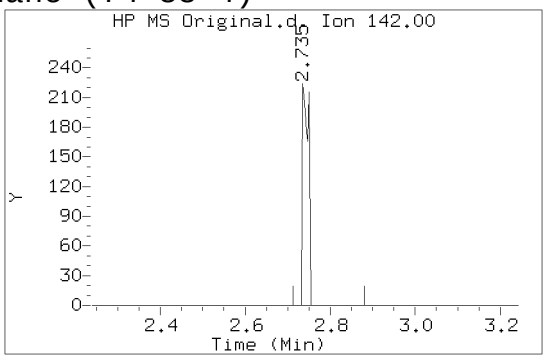
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Inj Date : 12-JUN-2024 11:43
InstruID : voa7.i
LabSampID : VSTD00.5

Iodomethane (74-88-4)

Reason Code:

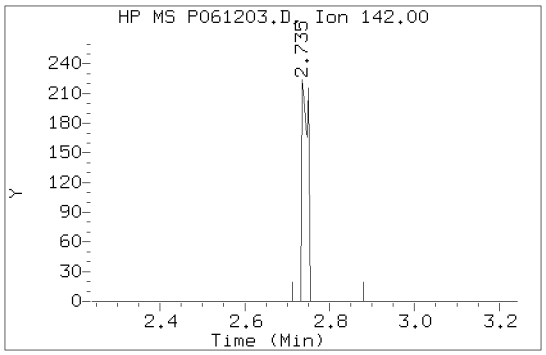
BEFORE

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142
AREA
229
HEIGHT
224
22-Jun-2024
12:20
RUCHA
PATEL



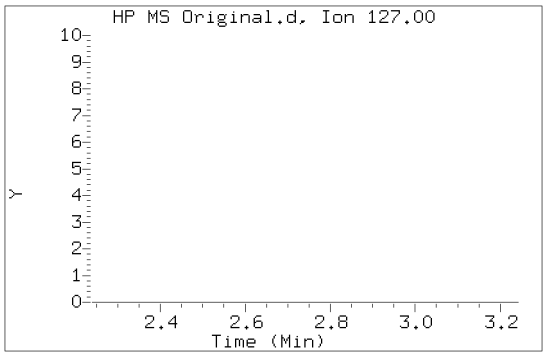
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AREA
229
HEIGHT
224
22-Jun-2024
12:20
RUCHA
PATEL



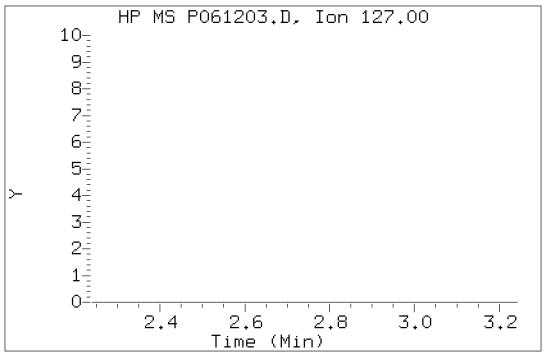
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AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



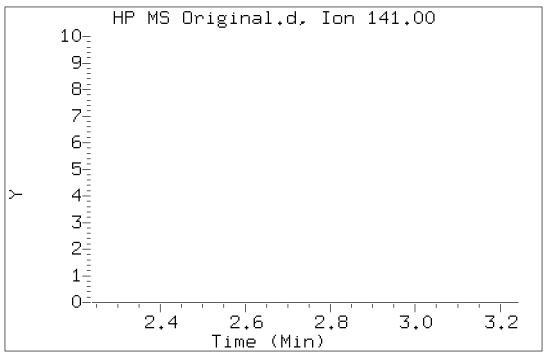
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0
22-Jun-2024
12:20
RUCHA
PATEL



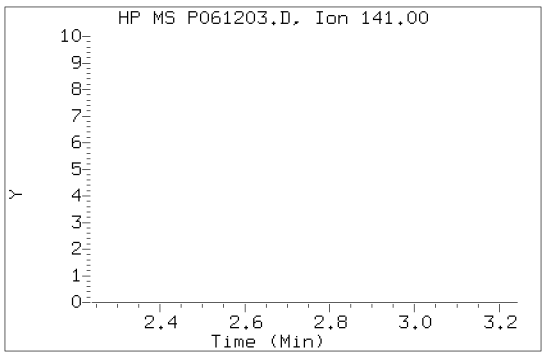
BEFORE

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141
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

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AREA
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HEIGHT
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22-Jun-2024
12:20
RUCHA
PATEL

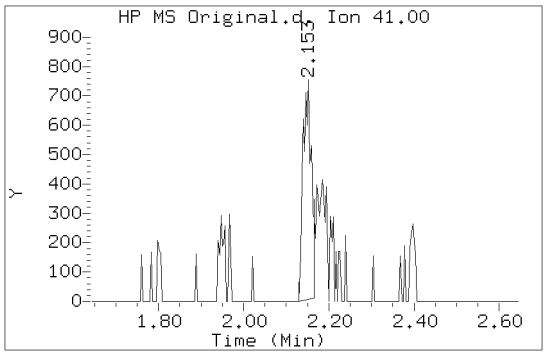


Methacrylonitrile (126-98-7)

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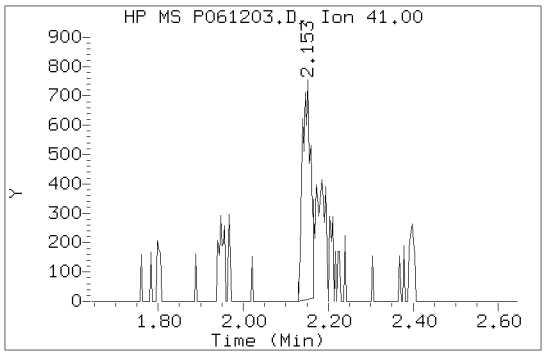
BEFORE

MASS
41
AREA
1023
HEIGHT
748
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
41
AREA
1023
HEIGHT
748
22-Jun-2024
12:20
RUCHA
PATEL

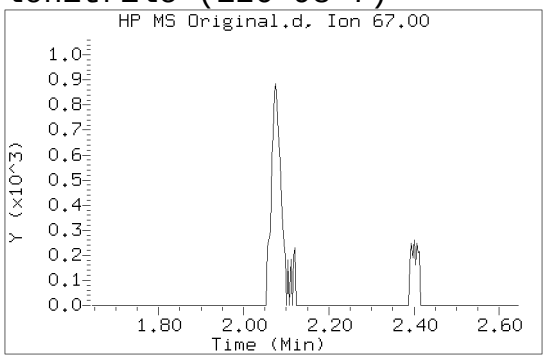


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Inj Date : 12-JUN-2024 11:43
InstruID : voa7.i
LabSampID : VSTD00.5

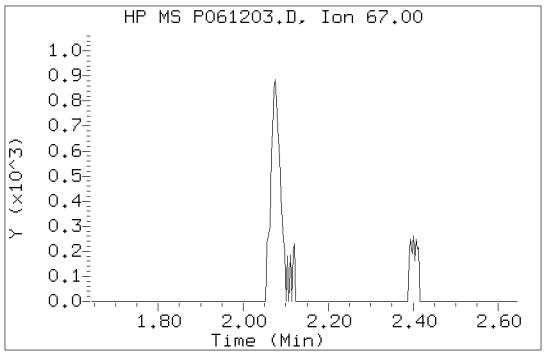
Methacrylonitrile (126-98-7)

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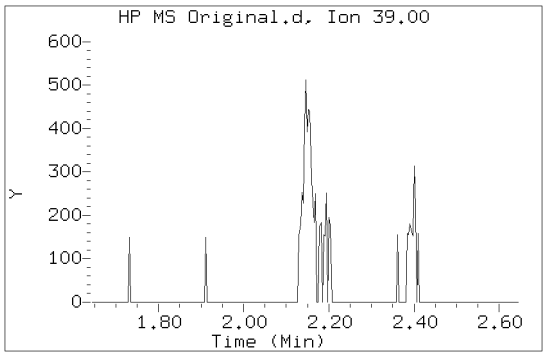
BEFORE
MASS
67
AREA
270
HEIGHT
285
22-Jun-2024
12:20
RUCHA
PATEL



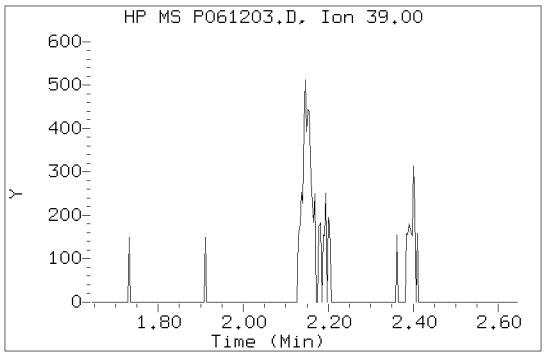
AFTER
MASS
67
AREA
270
HEIGHT
285
22-Jun-2024
12:20
RUCHA
PATEL



BEFORE
MASS
39
AREA
198
HEIGHT
267
22-Jun-2024
12:20
RUCHA
PATEL



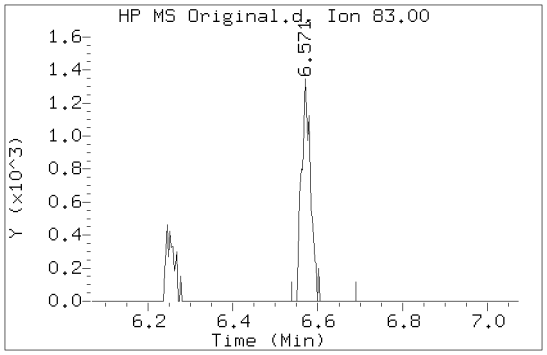
AFTER
MASS
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AREA
198
HEIGHT
267
22-Jun-2024
12:20
RUCHA
PATEL



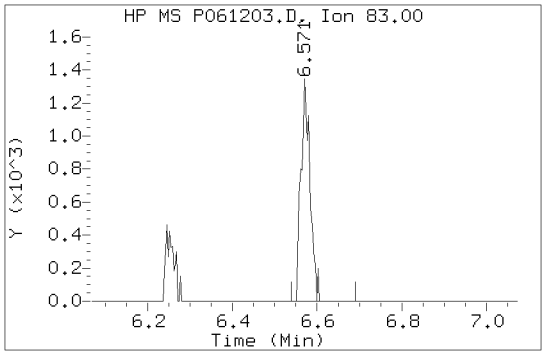
Bromodichloromethane (75-27-4)

Reason Code:

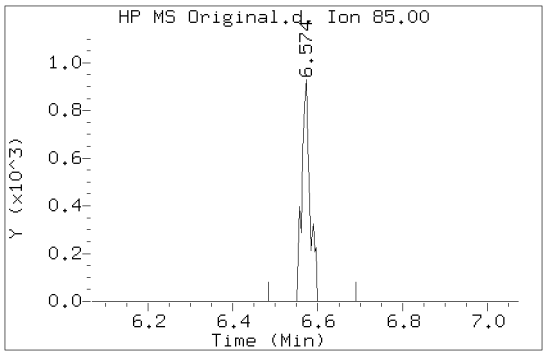
BEFORE
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83
AREA
1982
HEIGHT
1346
22-Jun-2024
12:20
RUCHA
PATEL



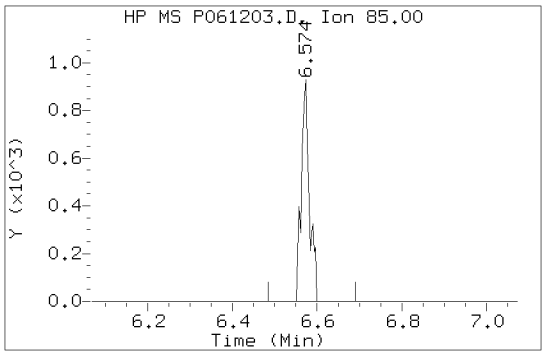
AFTER
MASS
83
AREA
1982
HEIGHT
1346
22-Jun-2024
12:20
RUCHA
PATEL



BEFORE
MASS
85
AREA
1250
HEIGHT
929
22-Jun-2024
12:20
RUCHA
PATEL



AFTER
MASS
85
AREA
1250
HEIGHT
929
22-Jun-2024
12:20
RUCHA
PATEL



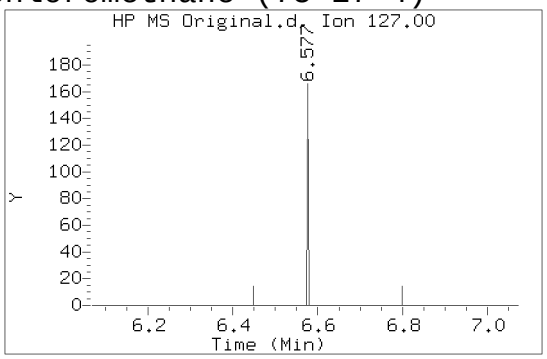
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Inj Date : 12-JUN-2024 11:43
InstruID : voa7.i
LabSampID : VSTD00.5

Bromodichloromethane (75-27-4)

Reason Code:

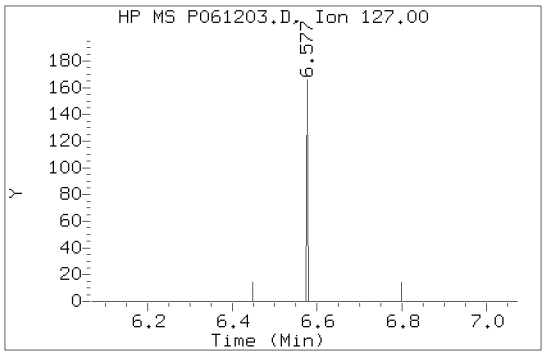
BEFORE

MASS
127
AREA
32
HEIGHT
166
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
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AREA
32
HEIGHT
166
22-Jun-2024
12:20
RUCHA
PATEL

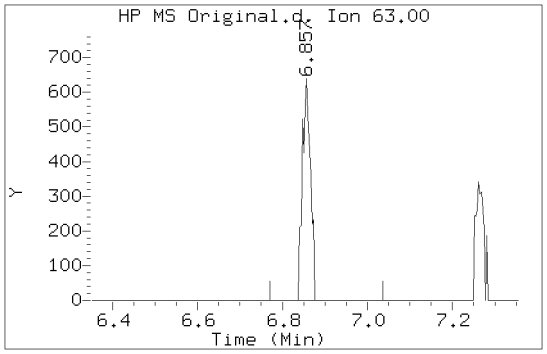


2-Chloroethylvinyl ether (110-75-8)

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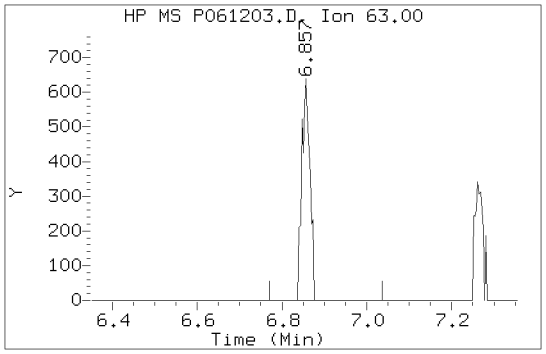
BEFORE

MASS
63
AREA
845
HEIGHT
639
22-Jun-2024
12:20
RUCHA
PATEL



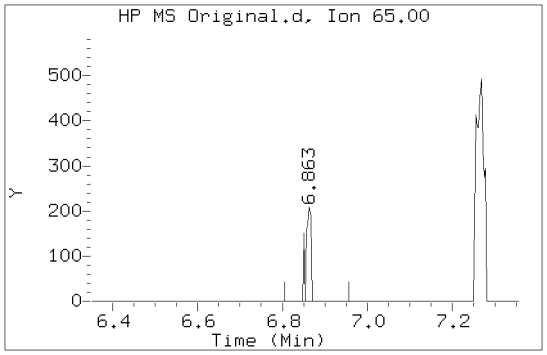
AFTER

MASS
63
AREA
845
HEIGHT
639
22-Jun-2024
12:20
RUCHA
PATEL



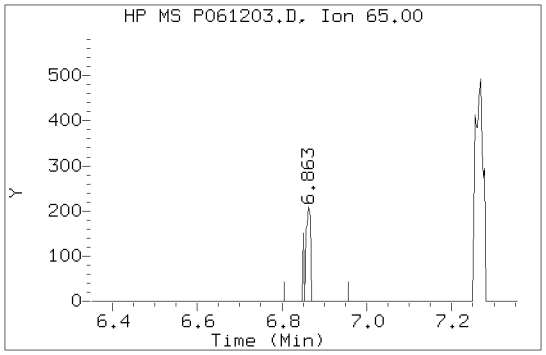
BEFORE

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AREA
168
HEIGHT
209
22-Jun-2024
12:20
RUCHA
PATEL



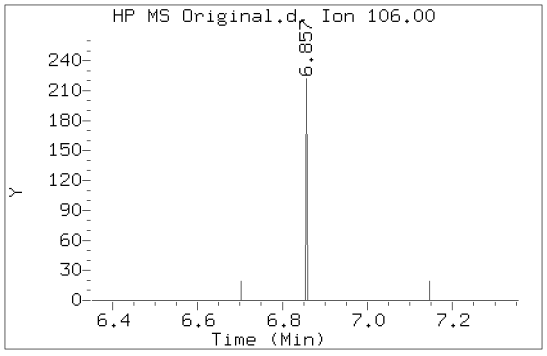
AFTER

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AREA
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HEIGHT
209
22-Jun-2024
12:20
RUCHA
PATEL



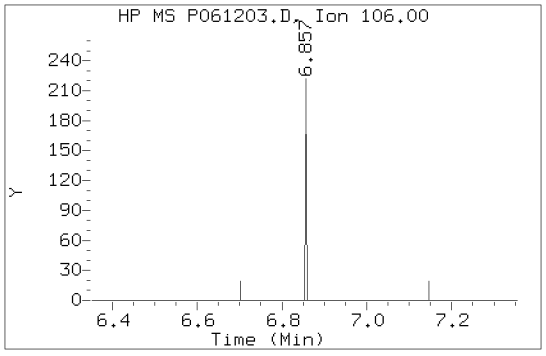
BEFORE

MASS
106
AREA
42
HEIGHT
222
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
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AREA
42
HEIGHT
222
22-Jun-2024
12:20
RUCHA
PATEL



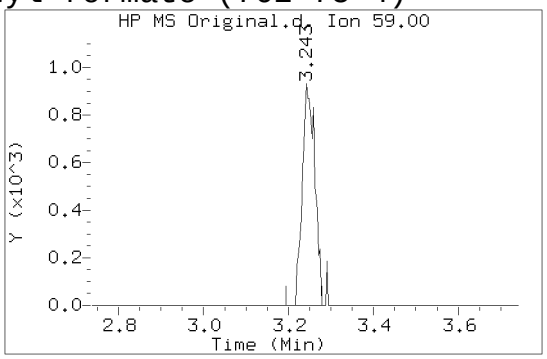
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Inj Date : 12-JUN-2024 11:43
InstruID : voa7.i
LabSampID : VSTD00.5

tert-Butyl formate (762-75-4)

Reason Code:

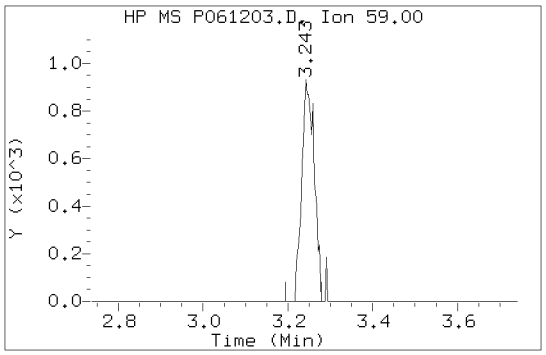
BEFORE

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AREA
1899
HEIGHT
932
22-Jun-2024
12:20
RUCHA
PATEL



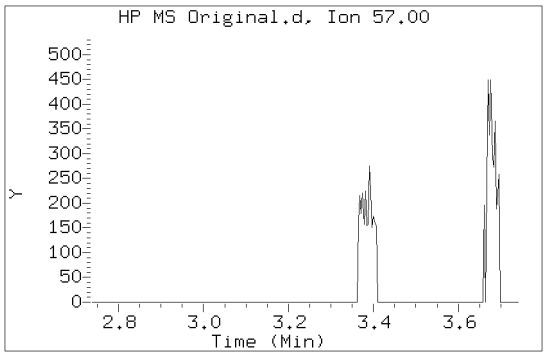
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1899
HEIGHT
932
22-Jun-2024
12:20
RUCHA
PATEL



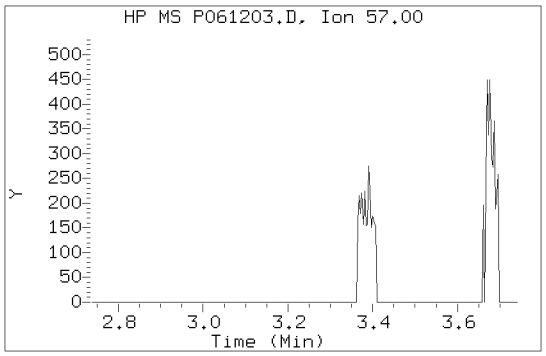
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HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



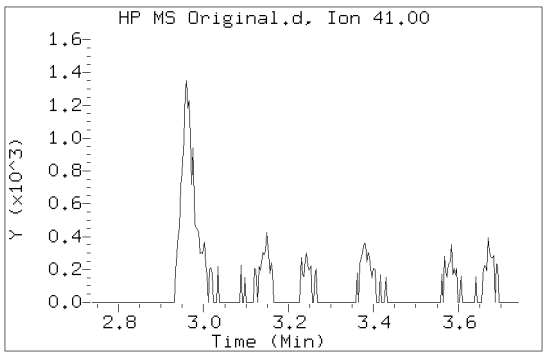
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57
AREA
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HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



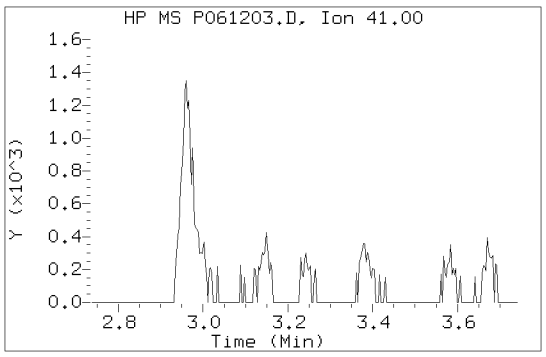
BEFORE

MASS
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AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
41
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL

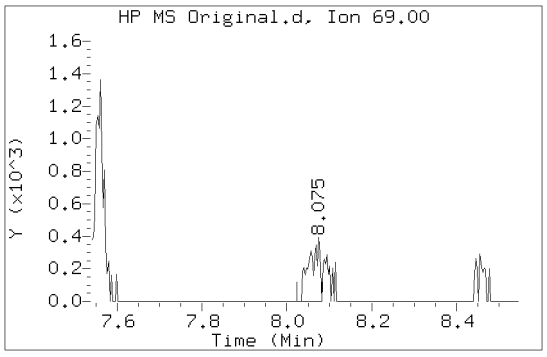


Ethyl Methacrylate (97-63-2)

Reason Code:

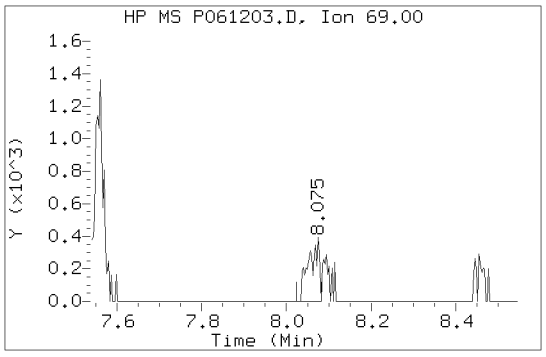
BEFORE

MASS
69
AREA
670
HEIGHT
395
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
69
AREA
670
HEIGHT
395
22-Jun-2024
12:20
RUCHA
PATEL



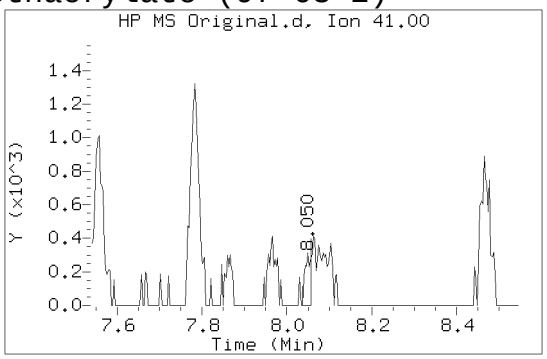
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InstruID : voa7.i
LabSampID : VSTD00.5

Ethyl Methacrylate (97-63-2)

Reason Code:

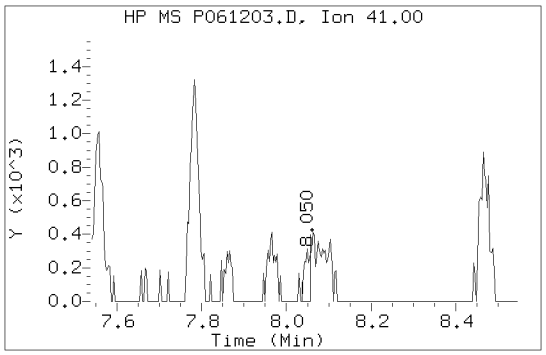
BEFORE

MASS
41
AREA
283
HEIGHT
315
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
41
AREA
283
HEIGHT
315
22-Jun-2024
12:20
RUCHA
PATEL

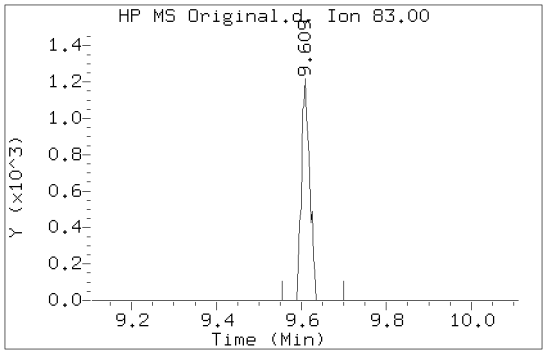


1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

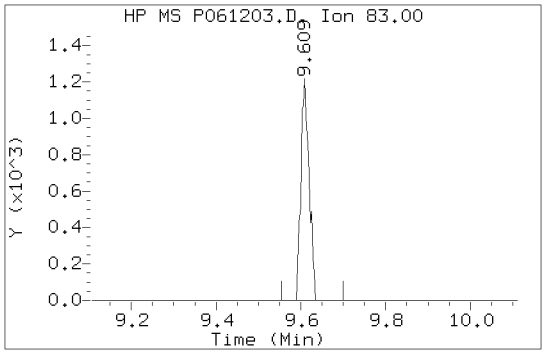
BEFORE

MASS
83
AREA
1638
HEIGHT
1218
22-Jun-2024
12:20
RUCHA
PATEL



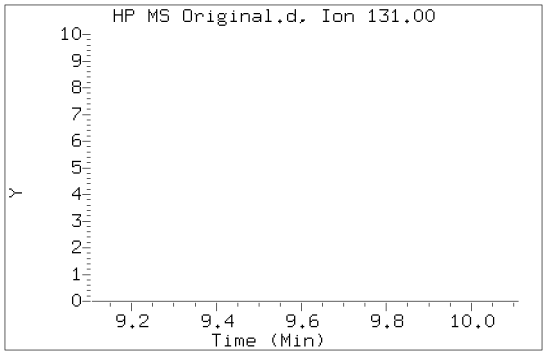
AFTER

MASS
83
AREA
1638
HEIGHT
1218
22-Jun-2024
12:20
RUCHA
PATEL



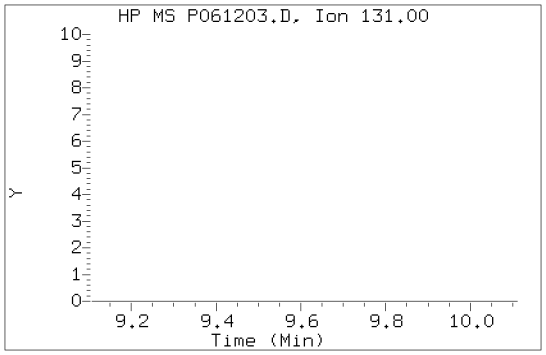
BEFORE

MASS
131
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



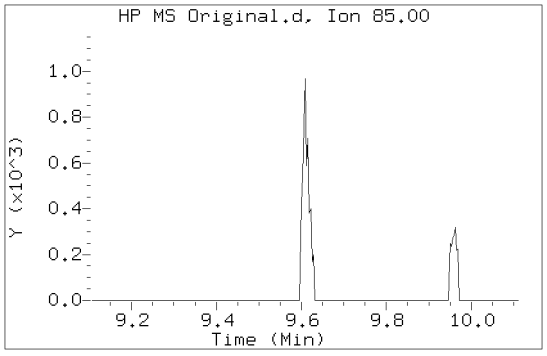
AFTER

MASS
131
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



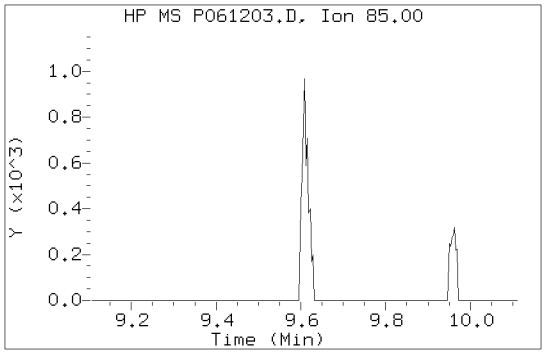
BEFORE

MASS
85
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
85
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL

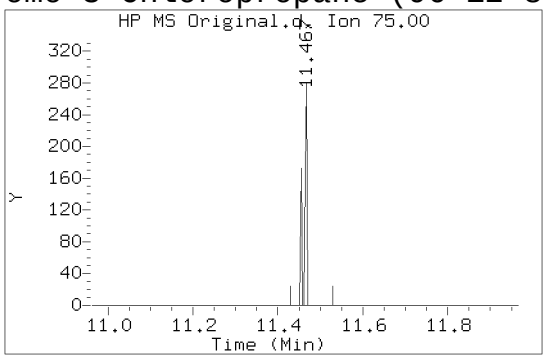


Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061203.D
Inj Date : 12-JUN-2024 11:43
InstruID : voa7.i
LabSampID : VSTD00.5

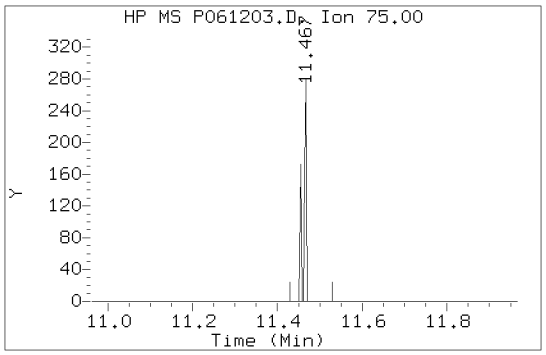
1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

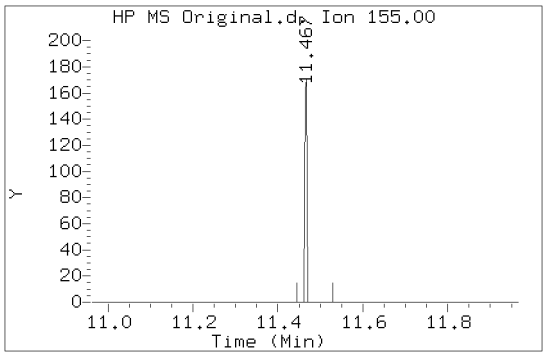
BEFORE
MASS
75
AREA
119
HEIGHT
279
22-Jun-2024
12:20
RUCHA
PATEL



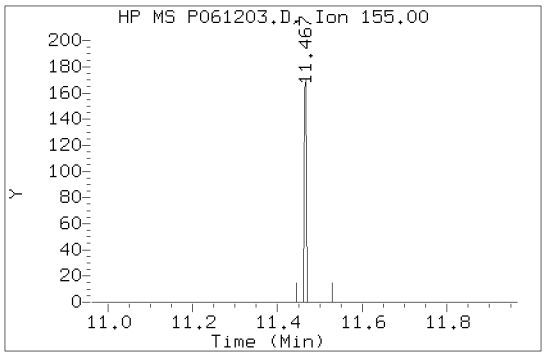
AFTER
MASS
75
AREA
119
HEIGHT
279
22-Jun-2024
12:20
RUCHA
PATEL



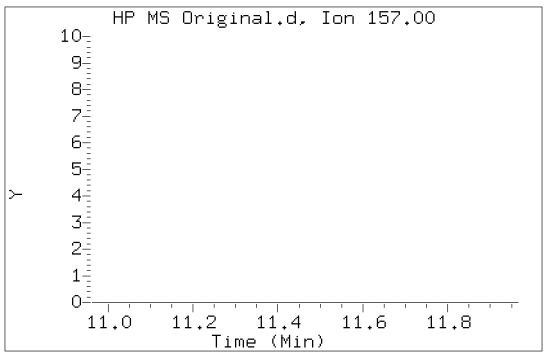
BEFORE
MASS
155
AREA
64
HEIGHT
170
22-Jun-2024
12:20
RUCHA
PATEL



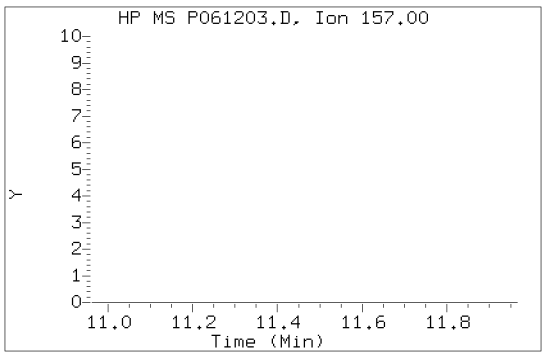
AFTER
MASS
155
AREA
64
HEIGHT
170
22-Jun-2024
12:20
RUCHA
PATEL



BEFORE
MASS
157
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



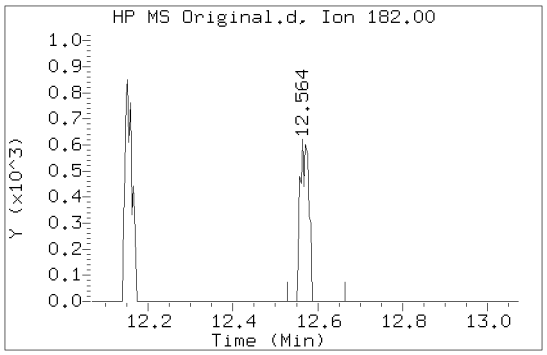
AFTER
MASS
157
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



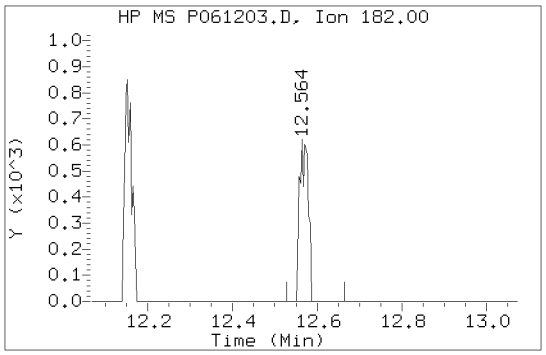
1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

BEFORE
MASS
182
AREA
874
HEIGHT
623
22-Jun-2024
12:20
RUCHA
PATEL



AFTER
MASS
182
AREA
874
HEIGHT
623
22-Jun-2024
12:20
RUCHA
PATEL



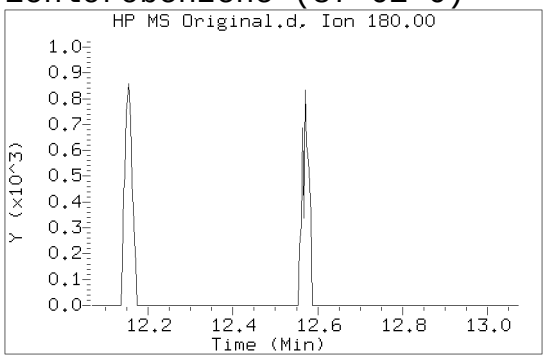
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061203.D
Inj Date : 12-JUN-2024 11:43
InstruID : voa7.i
LabSampID : VSTD00.5

1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

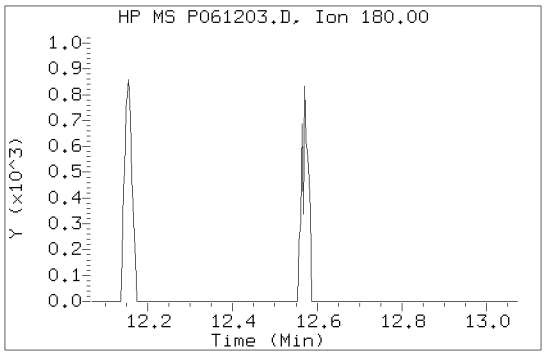
BEFORE

MASS
180
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



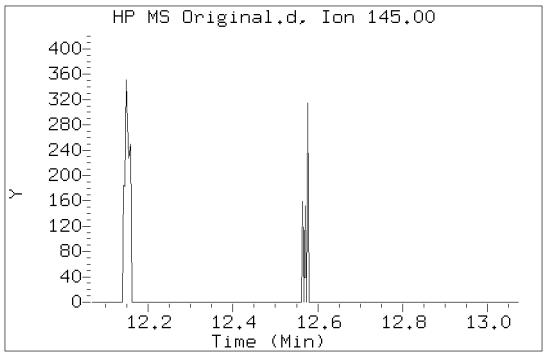
AFTER

MASS
180
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



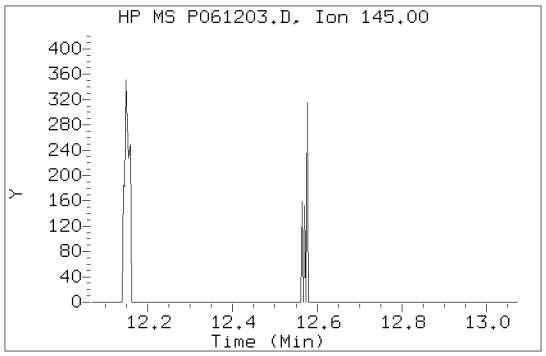
BEFORE

MASS
145
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
145
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL

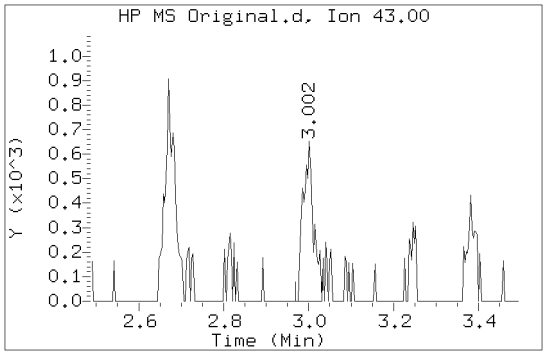


Methyl acetate (79-20-9)

Reason Code:

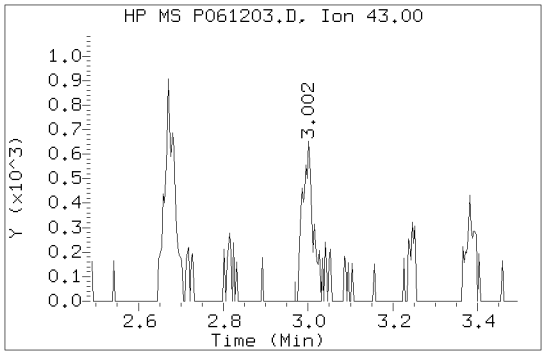
BEFORE

MASS
43
AREA
1098
HEIGHT
654
22-Jun-2024
12:20
RUCHA
PATEL



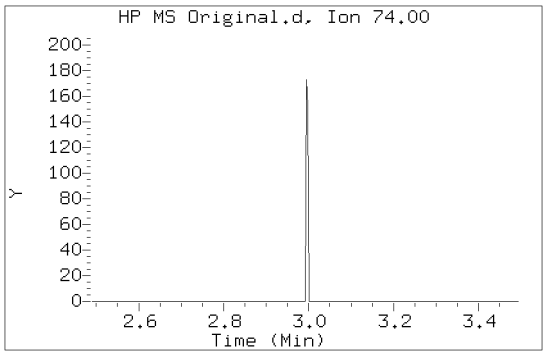
AFTER

MASS
43
AREA
1098
HEIGHT
654
22-Jun-2024
12:20
RUCHA
PATEL



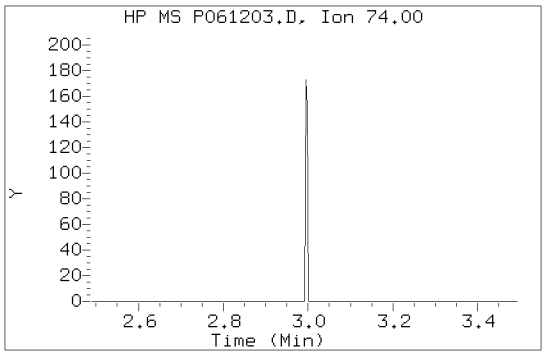
BEFORE

MASS
74
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

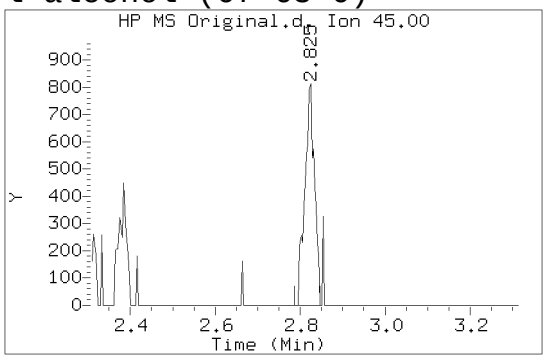
MASS
74
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061203.D
Inj Date : 12-JUN-2024 11:43
InstruID : voa7.i
LabSampID : VSTD00.5

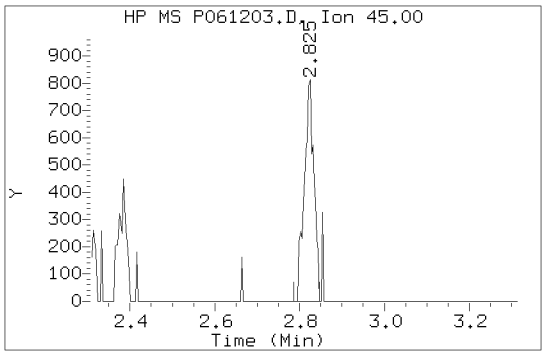
Isopropyl alcohol (67-63-0)

BEFORE
MASS
45
AREA
1271
HEIGHT
813
22-Jun-2024
12:20
RUCHA
PATEL

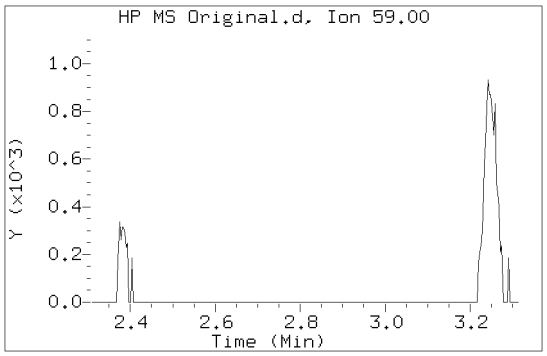


Reason Code:

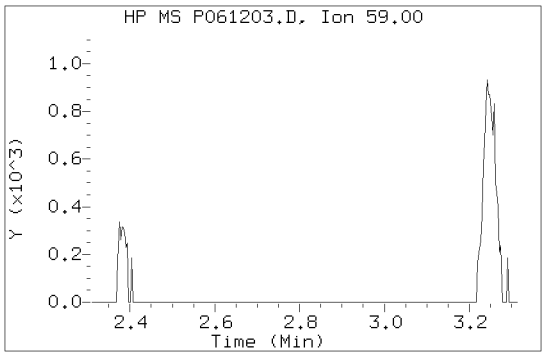
AFTER
MASS
45
AREA
1271
HEIGHT
813
22-Jun-2024
12:20
RUCHA
PATEL



BEFORE
MASS
59
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL

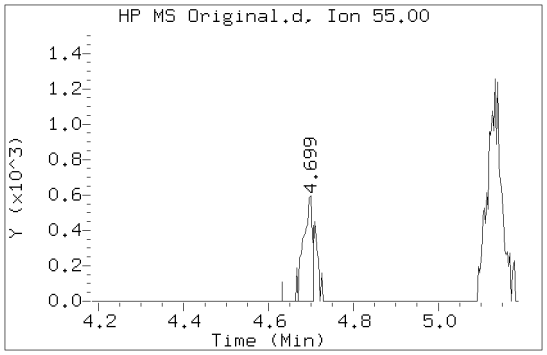


AFTER
MASS
59
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



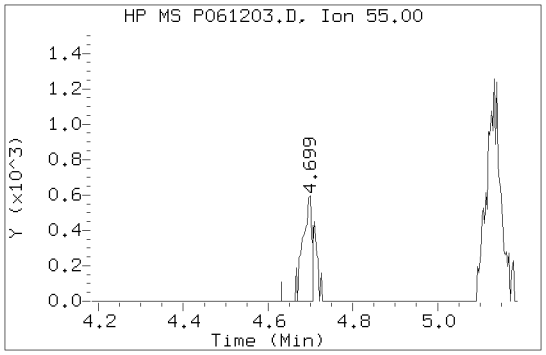
Methyl Acrylate (96-33-3)

BEFORE
MASS
55
AREA
870
HEIGHT
597
22-Jun-2024
12:20
RUCHA
PATEL

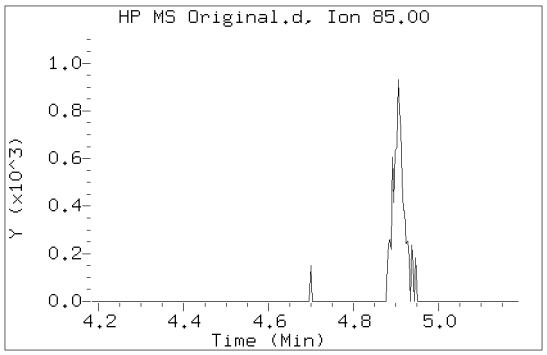


Reason Code:

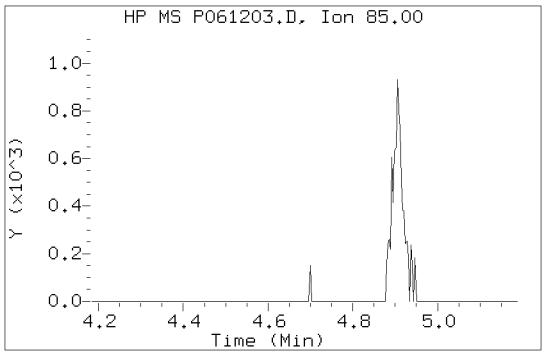
AFTER
MASS
55
AREA
870
HEIGHT
597
22-Jun-2024
12:20
RUCHA
PATEL



BEFORE
MASS
85
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER
MASS
85
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



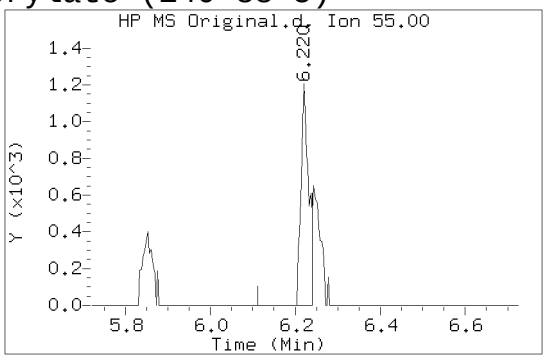
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061203.D
Inj Date : 12-JUN-2024 11:43
InstruID : voa7.i
LabSampID : VSTD00.5

Ethyl Acrylate (140-88-5)

Reason Code:

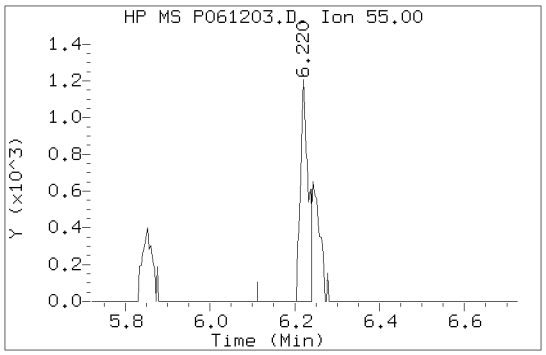
BEFORE

MASS
55
AREA
1514
HEIGHT
1206
22-Jun-2024
12:20
RUCHA
PATEL



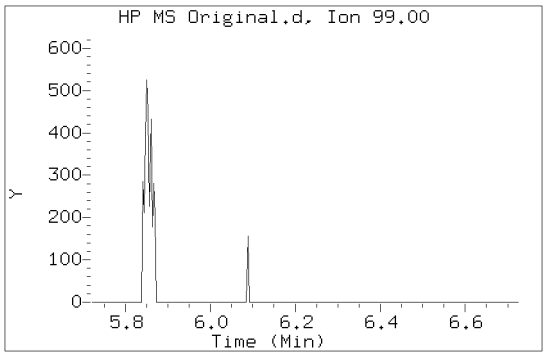
AFTER

MASS
55
AREA
1514
HEIGHT
1206
22-Jun-2024
12:20
RUCHA
PATEL



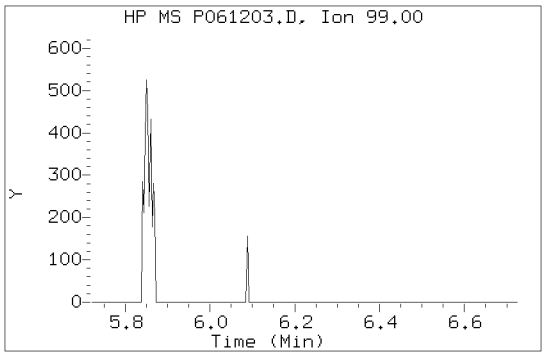
BEFORE

MASS
99
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
99
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL

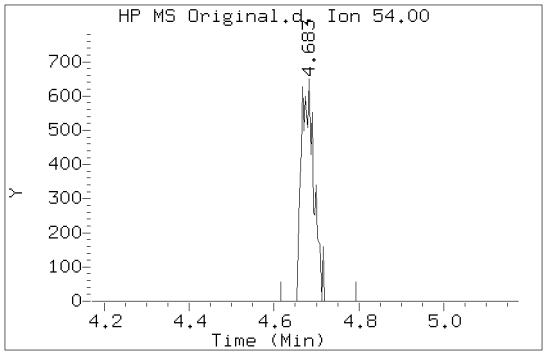


Propionitrile (107-12-0)

Reason Code:

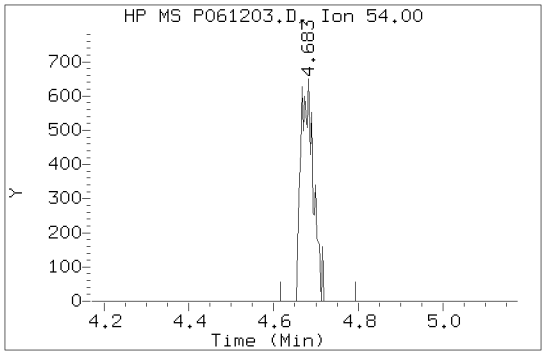
BEFORE

MASS
54
AREA
1322
HEIGHT
650
22-Jun-2024
12:20
RUCHA
PATEL



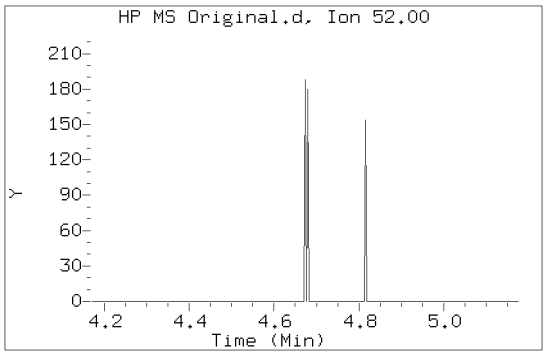
AFTER

MASS
54
AREA
1322
HEIGHT
650
22-Jun-2024
12:20
RUCHA
PATEL



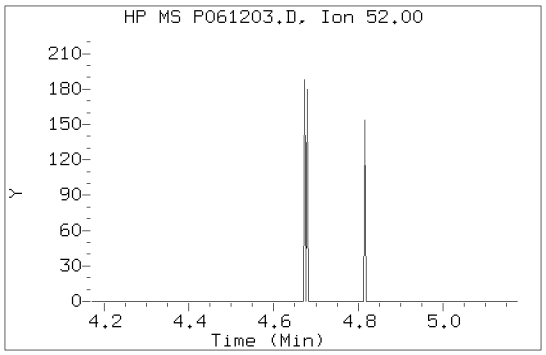
BEFORE

MASS
52
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
52
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



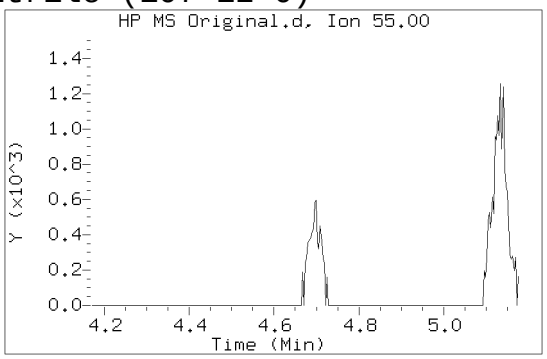
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061203.D
Inj Date : 12-JUN-2024 11:43
InstruID : voa7.i
LabSampID : VSTD00.5

Propionitrile (107-12-0)

Reason Code:

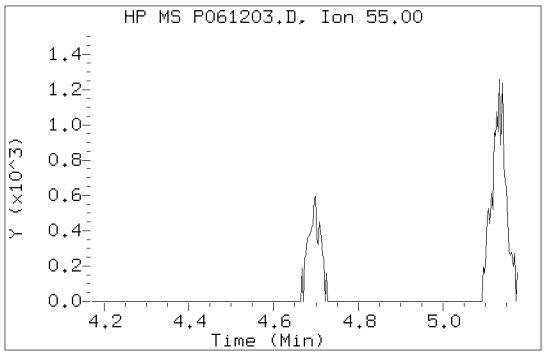
BEFORE

MASS
55
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
55
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL

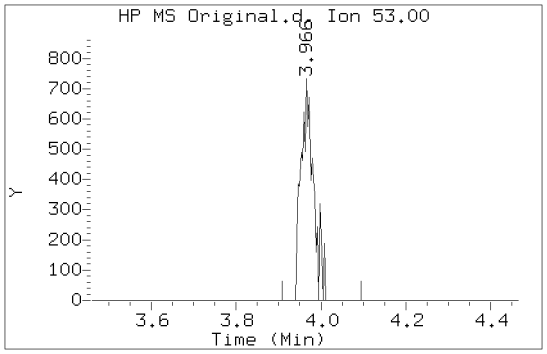


Chloroprene (126-99-8)

Reason Code:

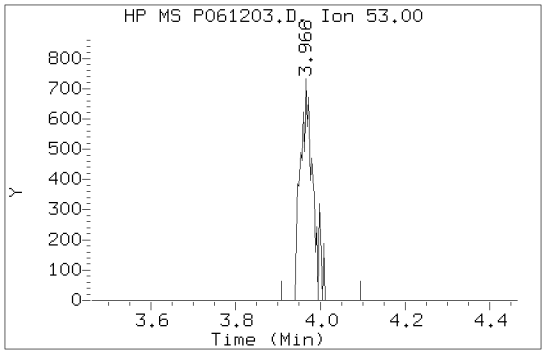
BEFORE

MASS
53
AREA
1484
HEIGHT
733
22-Jun-2024
12:20
RUCHA
PATEL



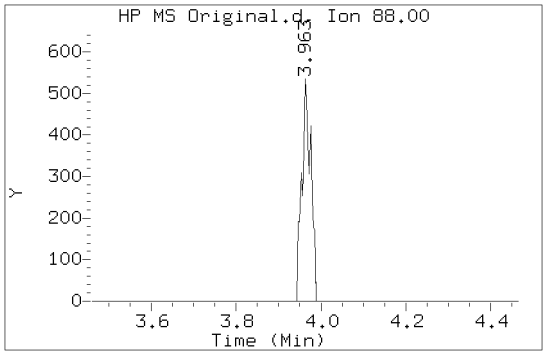
AFTER

MASS
53
AREA
1484
HEIGHT
733
22-Jun-2024
12:20
RUCHA
PATEL



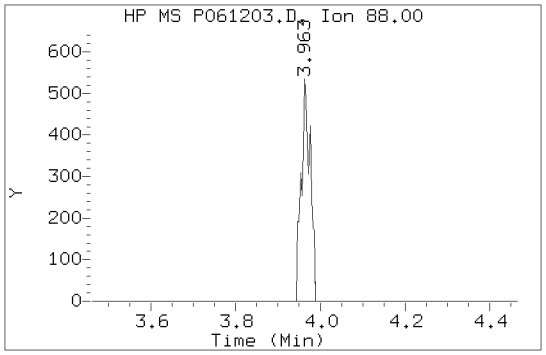
BEFORE

MASS
88
AREA
779
HEIGHT
535
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
88
AREA
779
HEIGHT
535
22-Jun-2024
12:20
RUCHA
PATEL

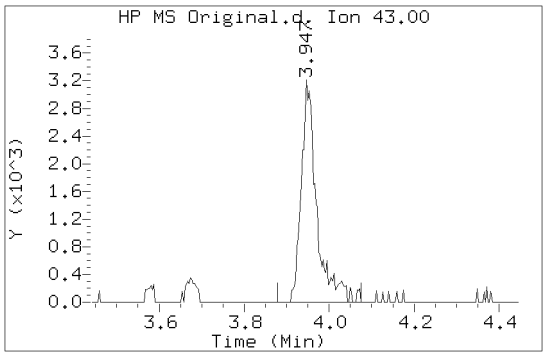


Ethyl Acetate (141-78-6)

Reason Code:

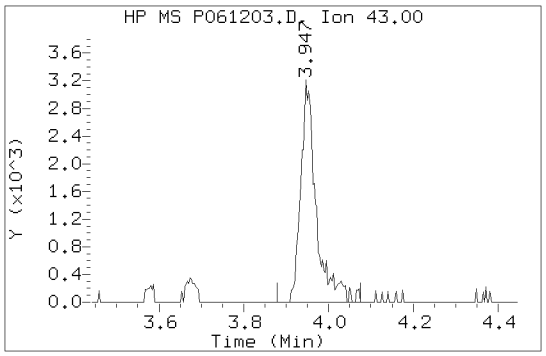
BEFORE

MASS
43
AREA
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HEIGHT
3212
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
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AREA
8116
HEIGHT
3212
22-Jun-2024
12:20
RUCHA
PATEL



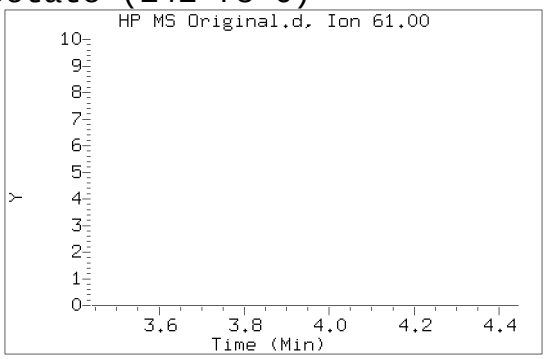
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Inj Date : 12-JUN-2024 11:43
InstruID : voa7.i
LabSampID : VSTD00.5

Ethyl Acetate (141-78-6)

Reason Code:

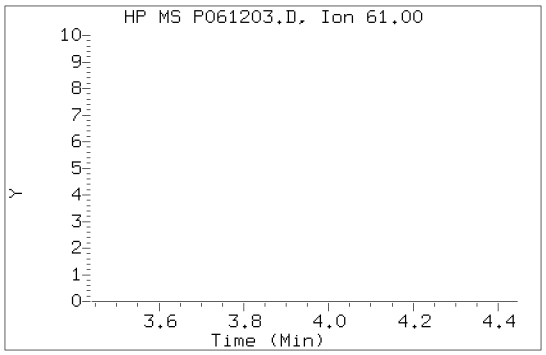
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HEIGHT
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22-Jun-2024
12:20
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PATEL



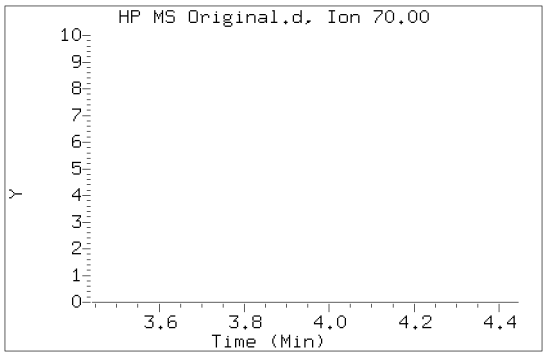
AFTER

MASS
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22-Jun-2024
12:20
RUCHA
PATEL



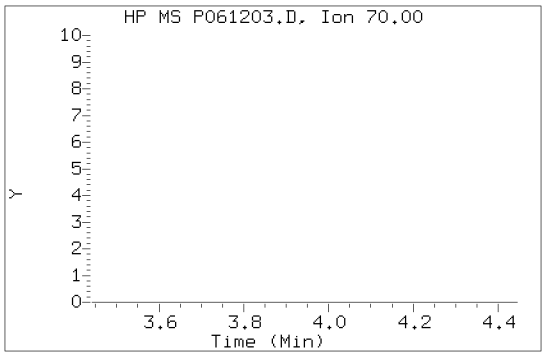
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AREA
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HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
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AREA
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HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL

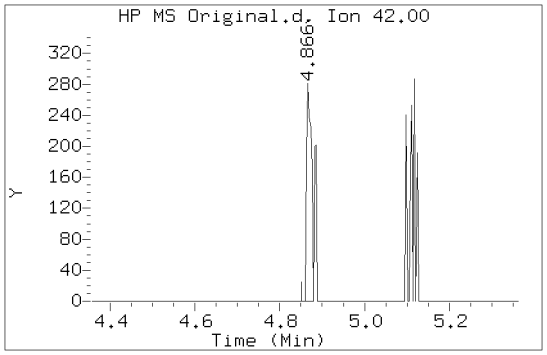


Tetrahydrofuran (109-99-9)

Reason Code:

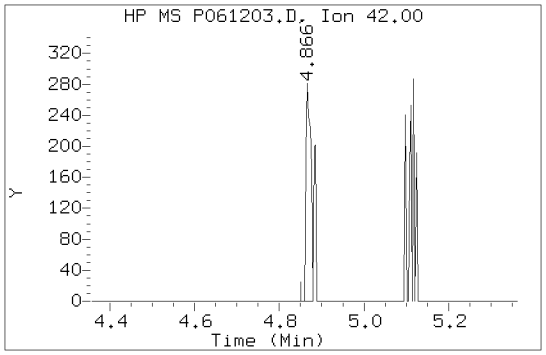
BEFORE

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AREA
212
HEIGHT
281
22-Jun-2024
12:20
RUCHA
PATEL



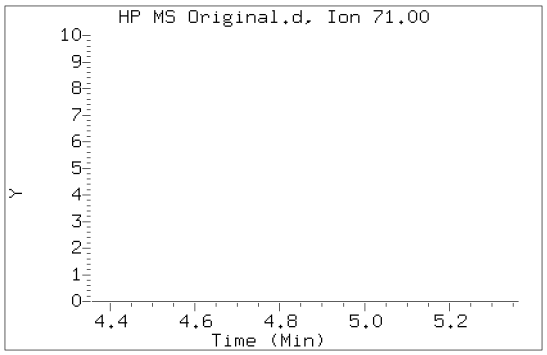
AFTER

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AREA
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HEIGHT
281
22-Jun-2024
12:20
RUCHA
PATEL



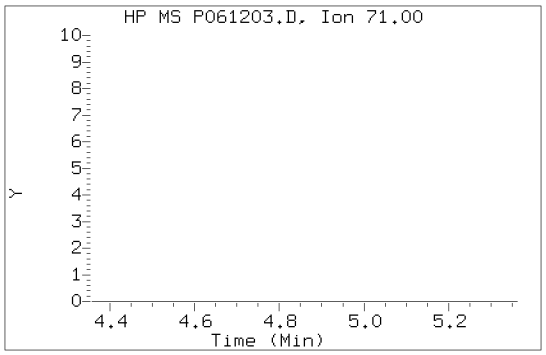
BEFORE

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71
AREA
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HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

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HEIGHT
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22-Jun-2024
12:20
RUCHA
PATEL

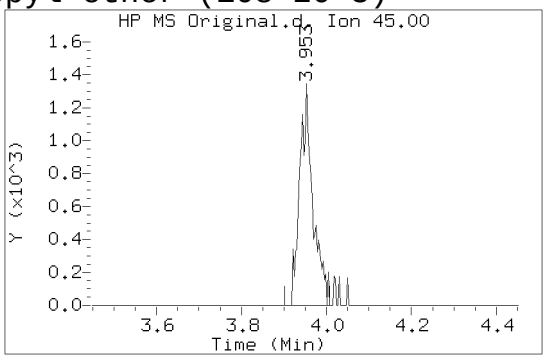


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Inj Date : 12-JUN-2024 11:43
InstruID : voa7.i
LabSampID : VSTD00.5

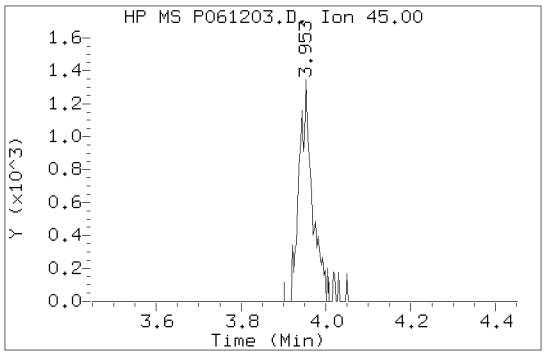
Diisopropyl ether (108-20-3)

Reason Code:

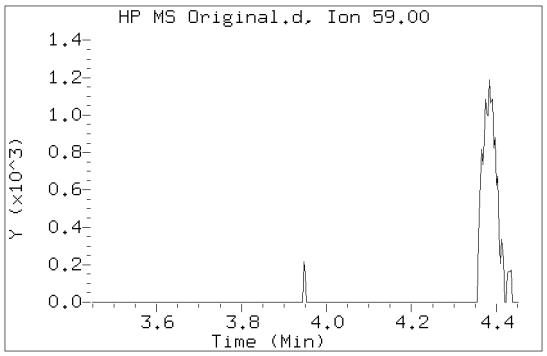
BEFORE
MASS
45
AREA
2859
HEIGHT
1346
22-Jun-2024
12:20
RUCHA
PATEL



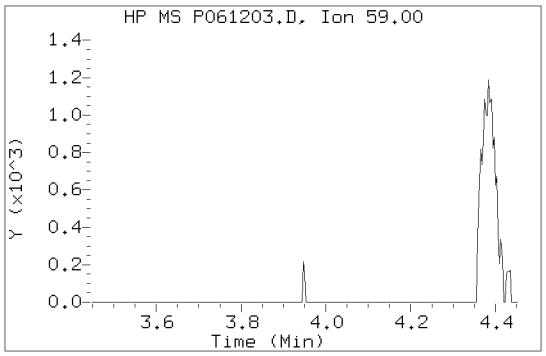
AFTER
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AREA
2859
HEIGHT
1346
22-Jun-2024
12:20
RUCHA
PATEL



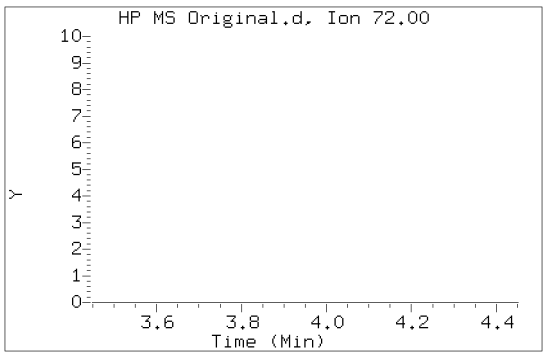
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MASS
59
AREA
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HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



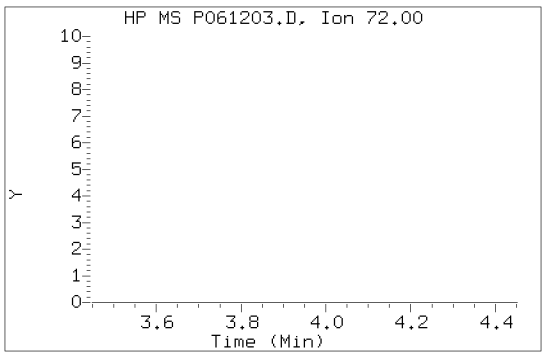
AFTER
MASS
59
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



BEFORE
MASS
72
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



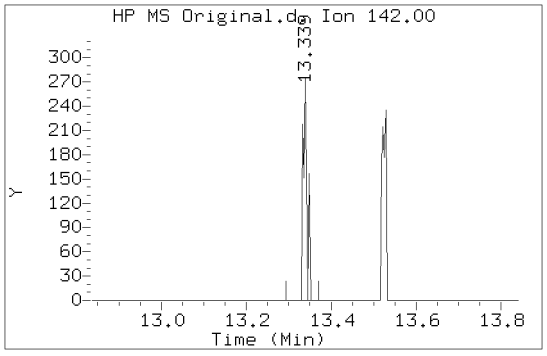
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22-Jun-2024
12:20
RUCHA
PATEL



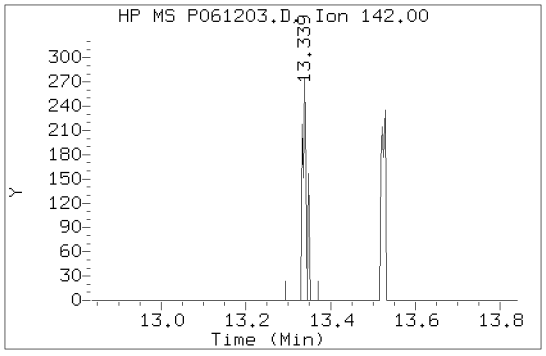
2-Methylnaphthalene (91-57-6)

Reason Code:

BEFORE
MASS
142
AREA
184
HEIGHT
274
22-Jun-2024
12:20
RUCHA
PATEL



AFTER
MASS
142
AREA
184
HEIGHT
274
22-Jun-2024
12:20
RUCHA
PATEL

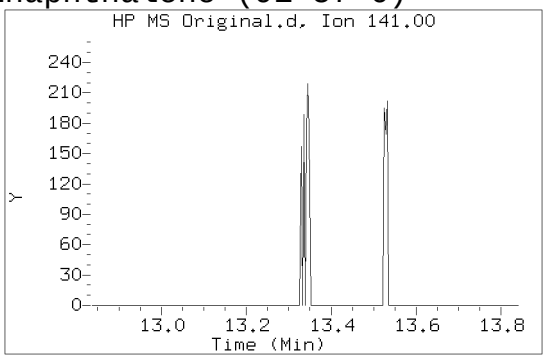


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Inj Date : 12-JUN-2024 11:43
InstruID : voa7.i
LabSampID : VSTD00.5

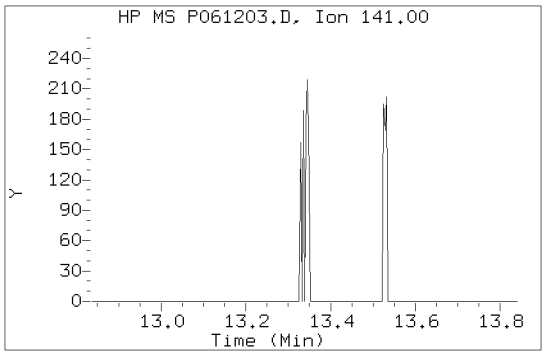
2-Methylnaphthalene (91-57-6)

Reason Code:

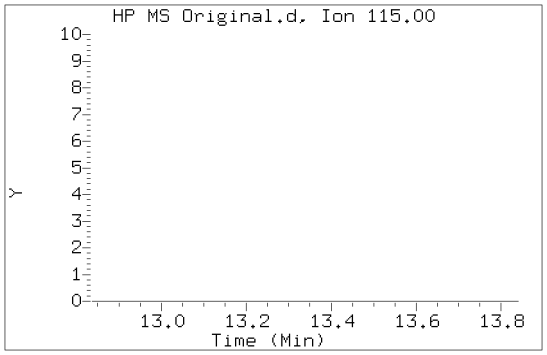
BEFORE
MASS
141
AREA
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HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



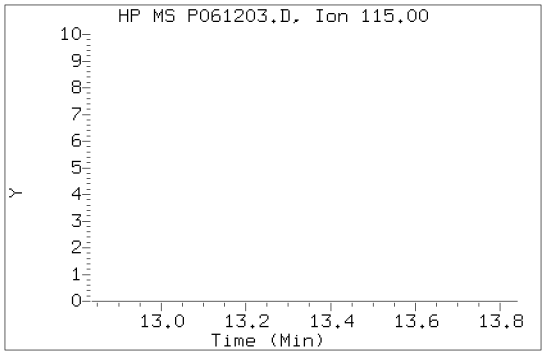
AFTER
MASS
141
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



BEFORE
MASS
115
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



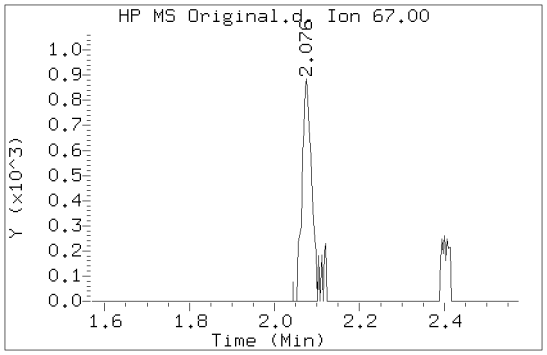
AFTER
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AREA
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0
22-Jun-2024
12:20
RUCHA
PATEL



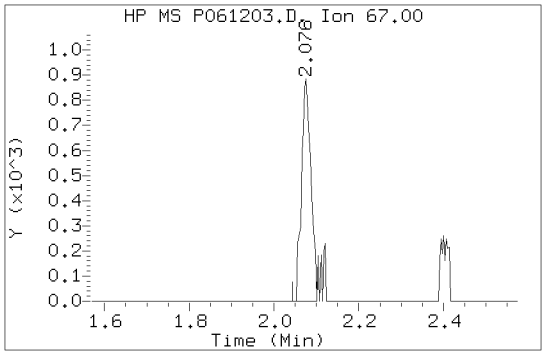
Dichlorofluoromethane (75-43-4)

Reason Code:

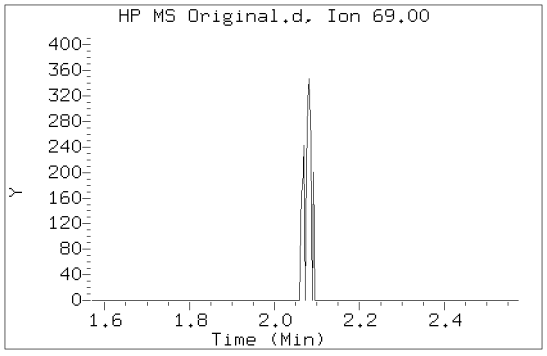
BEFORE
MASS
67
AREA
1360
HEIGHT
885
22-Jun-2024
12:20
RUCHA
PATEL



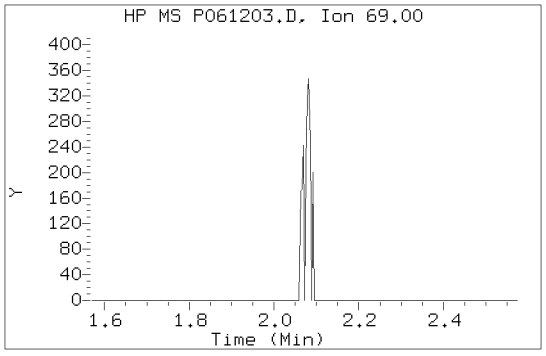
AFTER
MASS
67
AREA
1360
HEIGHT
885
22-Jun-2024
12:20
RUCHA
PATEL



BEFORE
MASS
69
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER
MASS
69
AREA
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HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



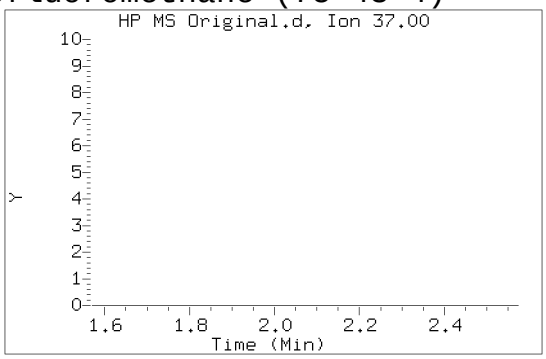
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Inj Date : 12-JUN-2024 11:43
InstruID : voa7.i
LabSampID : VSTD00.5

Dichlorofluoromethane (75-43-4)

Reason Code:

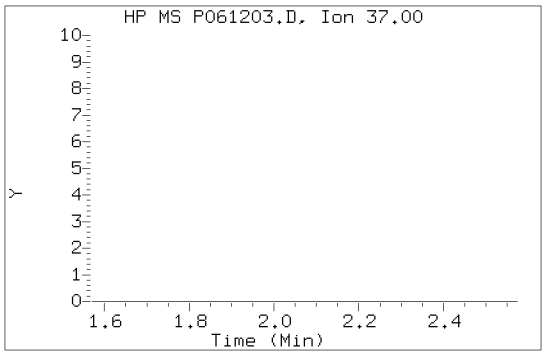
BEFORE

MASS
37
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

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37
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL

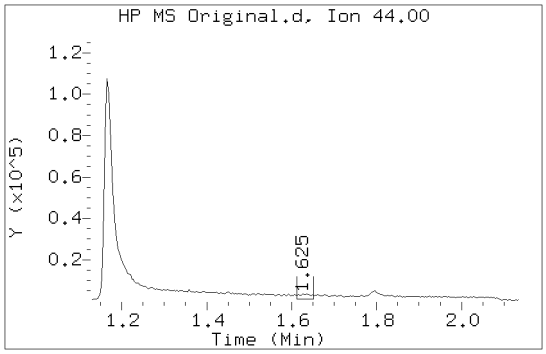


Acetaldehyde (75-07-0)

Reason Code:

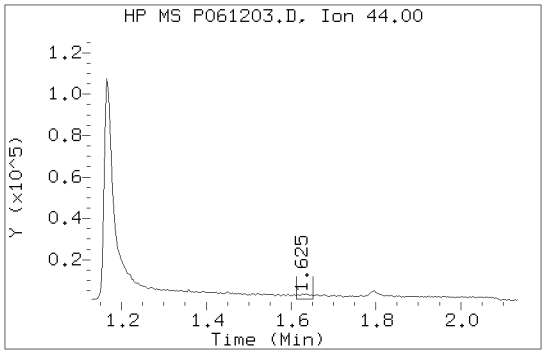
BEFORE

MASS
44
AREA
4899
HEIGHT
2369
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
44
AREA
4899
HEIGHT
2369
22-Jun-2024
12:20
RUCHA
PATEL



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061204.D Page 1
Report Date: 22-Jun-2024 12:21

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061204.D
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Inj Date : 12-JUN-2024 12:05
Operator : AP Inst ID: voa7.i
Smp Info : VSTD001
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240612.b\8260W.m
Meth Date : 22-Jun-2024 12:21 voa7.i Quant Type: ISTD
Cal Date : 12-JUN-2024 11:43 Cal File: P061203.D
Als bottle: 7 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	5.130	5.130	(1.000)	117765	50.0000	
2	Dichlorodifluoromethane	85	1.297	1.297	(0.253)	1352	1.00000	0.91(a)
159	Dichlorofluoromethane	67	2.072	2.072	(0.404)	2757	1.00000	1.13(M)
3	Chloromethane	50	1.454	1.454	(0.284)	3170	1.00000	0.98(a)
4	Propionitrile	54	4.673	4.673	(0.911)	2802	10.0000	12.88
5	Vinyl Chloride	62	1.535	1.535	(0.299)	2099	1.00000	1.15
6	Bromomethane	94	1.802	1.802	(0.351)	1923	1.00000	1.04
7	Chloroethane	64	1.898	1.898	(0.370)	1585	1.00000	1.21
8	Trichlorofluoromethane	101	2.114	2.114	(0.412)	1839	1.00000	1.10
9	Acrolein	56	2.512	2.512	(0.490)	61	2.00000	5.63(M)
11	1,1-Dichloroethene	96	2.596	2.596	(0.506)	1148	1.00000	1.01
12	Isobutyl Alcohol	43	5.576	5.576	(1.087)	7035	20.0000	22.46
13	Acetonitrile	39	2.962	2.962	(0.578)	2062	10.0000	10.05
14	Allyl Chloride	41	2.966	2.966	(0.578)	5788	1.00000	1.25
15	Iodomethane	142	2.744	2.744	(0.535)	487	2.00000	5.64(M)
16	Acrylonitrile	53	3.384	3.384	(0.660)	1134	2.00000	2.43
17	Methylene Chloride	84	3.101	3.101	(0.605)	3129	1.00000	1.08(a)
18	Methyl tert-butyl ether	73	3.384	3.384	(0.660)	4268	1.00000	2.27
19	Carbon Disulfide	76	2.798	2.798	(0.546)	9785	2.00000	3.01
20	trans-1,2-Dichloroethene	96	3.374	3.374	(0.658)	1392	1.00000	1.10

21 Vinyl Acetate	43	4.660	4.660 (0.908)	2723	2.00000	2.33
22 1,1-Dichloroethane	63	3.863	3.863 (0.753)	3410	1.00000	1.23

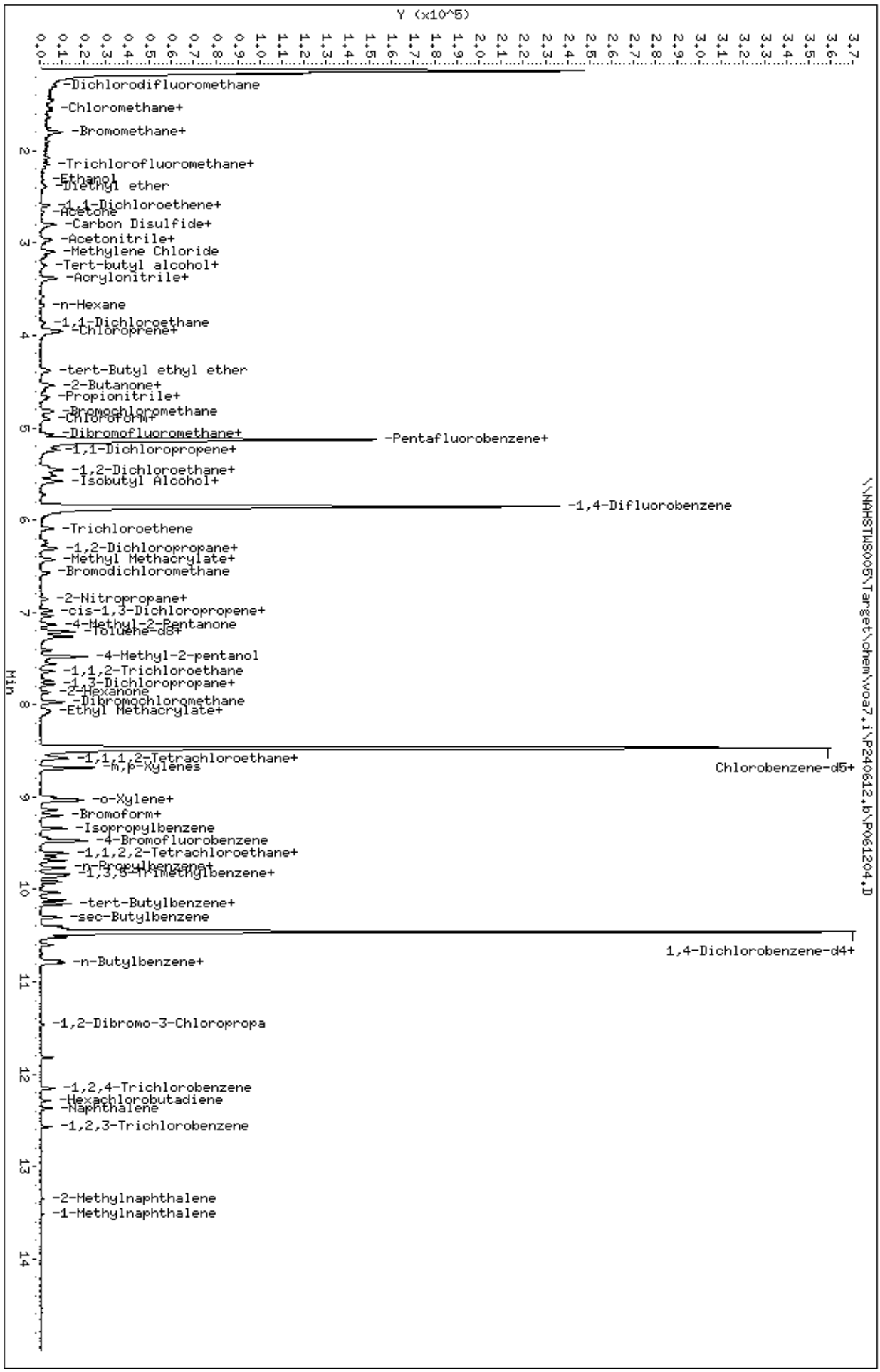
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
23	Chloroprene	53	3.966	3.966	(0.773)	2428	1.00000	1.09(a)
24	2-Butanone	43	4.593	4.593	(0.895)	2837	2.00000	2.66
25	Methacrylonitrile	41	2.146	2.146	(0.418)	1820	1.00000	2.05(M)
26	2,2-Dichloropropane	77	4.535	4.535	(0.884)	2328	1.00000	1.54
27	cis-1,2-Dichloroethene	96	4.551	4.551	(0.887)	1923	1.00000	1.39
28	Chloroform	83	4.904	4.904	(0.956)	3649	1.00000	1.18
29	Bromochloromethane	128	4.805	4.805	(0.937)	1013	1.00000	0.93(a)
$ 30	Dibromofluoromethane	113	5.072	5.072	(0.989)	2282	1.00000	1.38
31	1,1,1-Trichloroethane	97	5.078	5.078	(0.990)	2209	1.00000	1.47
32	1,1-Dichloropropene	75	5.242	5.242	(0.896)	2608	1.00000	1.57
33	1,2-Dichloroethane	62	5.493	5.493	(0.938)	3321	1.00000	1.12
34	Carbon Tetrachloride	117	5.236	5.236	(0.895)	2397	1.00000	1.81
$ 35	1,2-Dichloroethane-d4	65	5.419	5.419	(1.056)	3202	1.00000	1.17
* 36	1,4-Difluorobenzene	114	5.853	5.853	(1.000)	201241	50.0000	
37	Benzene	78	5.454	5.454	(0.932)	7825	1.00000	1.15
38	Trichloroethene	130	6.094	6.094	(1.041)	1844	1.00000	1.31
39	Bromodichloromethane	83	6.570	6.570	(1.122)	2792	1.00000	1.42(M)
40	Methyl Methacrylate	41	6.435	6.435	(1.254)	2255	1.00000	0.59(a)
41	2-Chloroethylvinyl ether	63	6.859	6.859	(1.172)	1601	2.00000	2.37(aM)
42	1,2-Dichloropropane	63	6.310	6.310	(1.078)	2320	1.00000	1.35
43	2-Nitropropane	43	6.801	6.801	(1.326)	803	1.00000	2.51(a)
44	Dibromomethane	93	6.422	6.422	(1.097)	1232	1.00000	1.25
45	4-Methyl-2-Pentanone	43	7.123	7.123	(0.841)	5173	2.00000	1.48(a)
46	cis-1,3-Dichloropropene	75	6.982	6.982	(1.193)	2939	1.00000	2.04
* 47	Chlorobenzene-d5	117	8.467	8.467	(1.000)	188087	50.0000	
$ 48	Toluene-d8	98	7.207	7.207	(0.851)	9737	1.00000	0.82(a)
49	Ethyl Methacrylate	69	8.062	8.062	(1.377)	2106	1.00000	1.89
50	Toluene	91	7.264	7.264	(0.858)	7764	1.00000	0.58(a)
51	trans-1,3-Dichloropropene	75	6.982	6.982	(1.193)	2939	1.00000	2.04
52	2-Hexanone	43	7.859	7.859	(0.928)	3164	2.00000	1.34(a)
53	1,1,2-Trichloroethane	83	7.641	7.641	(0.902)	1788	1.00000	0.53(a)
54	1,3-Dichloropropane	76	7.779	7.779	(0.919)	3554	1.00000	0.56(a)
55	Dibromochloromethane	129	7.978	7.978	(0.942)	2100	1.00000	1.21
56	Tetrachloroethene	164	7.740	7.740	(0.914)	1137	1.00000	0.67(a)
57	1,2-Dibromoethane	107	8.075	8.075	(0.954)	1851	1.00000	0.83(a)
58	1-Chlorohexane	55	8.470	8.470	(1.447)	3327	1.00000	0.72(a)
59	Chlorobenzene	112	8.493	8.493	(1.003)	5255	1.00000	0.70(a)
60	1,1,1,2-Tetrachloroethane	131	8.563	8.563	(1.011)	2007	1.00000	1.46
61	Ethylbenzene	106	8.583	8.583	(1.014)	2344	1.00000	0.80(a)
62	m,p-Xylenes	106	8.682	8.682	(1.025)	6254	2.00000	1.57(a)
63	o-Xylene	106	9.026	9.026	(1.066)	3077	1.00000	0.71(a)
64	Styrene	104	9.039	9.039	(1.068)	5325	1.00000	1.07
66	Bromoform	173	9.203	9.203	(1.087)	1111	1.00000	1.34(T)
67	Isopropylbenzene	105	9.338	9.338	(1.103)	6936	1.00000	0.72(a)
$ 69	4-Bromofluorobenzene	95	9.473	9.473	(1.119)	6716	1.00000	1.68
* 70	1,4-Dichlorobenzene-d4	152	10.457	10.457	(1.000)	85805	50.0000	
72	trans-1,4-Dichloro-2-butene	53	9.657	9.657	(1.140)	604	1.00000	1.69(M)
73	n-Propylbenzene	91	9.689	9.689	(0.927)	8454	1.00000	0.32(a)
74	Bromobenzene	156	9.602	9.602	(0.918)	2312	1.00000	0.28(a)
75	1,3,5-Trimethylbenzene	105	9.837	9.837	(0.941)	6275	1.00000	0.70(a)
79	1,2,4-Trimethylbenzene	105	10.158	10.158	(0.971)	6769	1.00000	0.52(a)
82	p-Isopropyltoluene	119	10.425	10.425	(0.997)	5790	1.00000	1.18

83 1,3-Dichlorobenzene	146	10.399	10.399 (0.994)	3904	1.00000	0.60(a)
84 1,4-Dichlorobenzene	146	10.477	10.477 (1.002)	4079	1.00000	0.52(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
87	n-Butylbenzene	91	10.772	10.772	(1.030)	5237	1.00000	1.18
88	1,2-Dichlorobenzene	146	10.801	10.801	(1.033)	3749	1.00000	0.55(a)
89	1,2-Dibromo-3-Chloropropane	75	11.464	11.464	(1.096)	297	1.00000	1.16
90	1,2,4-Trichlorobenzene	180	12.155	12.155	(1.162)	1918	1.00000	1.36
92	Naphthalene	128	12.374	12.374	(1.183)	4251	1.00000	1.24
93	1,2,3-Trichlorobenzene	182	12.570	12.570	(1.202)	1472	1.00000	1.51(M)
146	Methyl acetate	43	2.988	2.988	(0.583)	1741	1.00000	1.09(a)
138	Freon TF	101	2.599	2.599	(0.507)	631	1.00000	1.12
139	Diethyl ether	59	2.380	2.380	(0.464)	997	1.00000	1.60
140	1,3-Butadiene	54	1.564	1.564	(0.305)	599	1.00000	1.63(a)
141	Cyclohexane	56	5.130	5.130	(1.000)	3616	1.00000	1.57(a)
147	Methylcyclohexane	83	6.252	6.252	(1.068)	1103	1.00000	1.55
131	Methyl Acrylate	55	4.689	4.689	(0.914)	2257	1.00000	1.05(aM)
133	Ethyl Acrylate	55	6.226	6.226	(1.214)	3710	1.00000	1.11(M)
136	n-Hexane	57	3.686	3.686	(0.719)	889	1.00000	1.70
142	Tetrahydrofuran	42	4.879	4.879	(0.951)	750	2.00000	4.24(M)
149	Isopropyl alcohol	45	2.824	2.824	(0.551)	2719	20.0000	34.31(M)
151	4-Methyl-2-pentanol	45	7.477	7.477	(0.883)	14520	20.0000	41.66
173	3,3-Dimethyl-1-butanol	57	8.052	8.052	(0.951)	3401	20.0000	29.99(M)
175	tert-Butyl ethyl ether	59	4.387	4.387	(0.855)	5191	1.00000	1.01
157	2-Methylnaphthalene	142	13.345	13.345	(1.276)	563	1.00000	3.44
156	Diisopropyl ether	45	3.956	3.956	(0.771)	5587	1.00000	1.50(T)
171	1-Methylnaphthalene	142	13.518	13.518	(1.293)	569	1.00000	3.16
130	Ethyl Acetate	43	3.946	3.946	(0.769)	12937	1.00000	2.11(aM)
160	Epichlorohydrin	57	6.911	6.911	(1.181)	383	4.00000	4.48
161	Butyl acrylate	55	9.001	9.001	(1.063)	4551	1.00000	1.81(a)
183	Isopropyl Acetate	43	5.576	5.576	(0.953)	7035	1.00000	0.86(aA)
184	n-Amyl acetate	43	9.197	9.197	(1.086)	4598	1.00000	2.46(aA)
185	Acetaldehyde	44	1.631	1.631	(0.318)	8787	4.00000	(aM)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061204.D
Date : 12-JUN-2024 12:05
Client ID: VSTD001
Sample Info: VSTD001
Purge Volume: 5.0
Column phase: DB624

Instrument: voa7.i
Operator: AP
Column diameter: 0.18

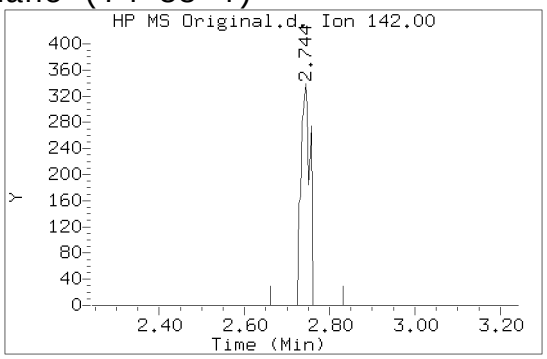
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InstruID : voa7.i
LabSampID : VSTD001

Iodomethane (74-88-4)

Reason Code:

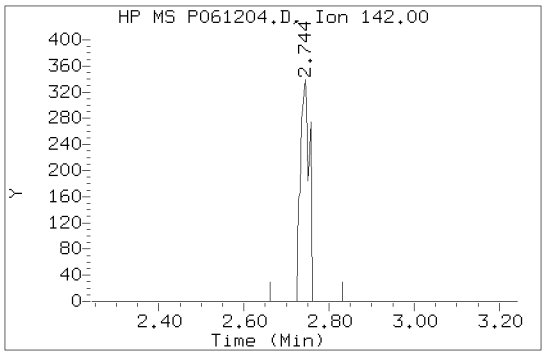
BEFORE

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HEIGHT
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22-Jun-2024
12:20
RUCHA
PATEL



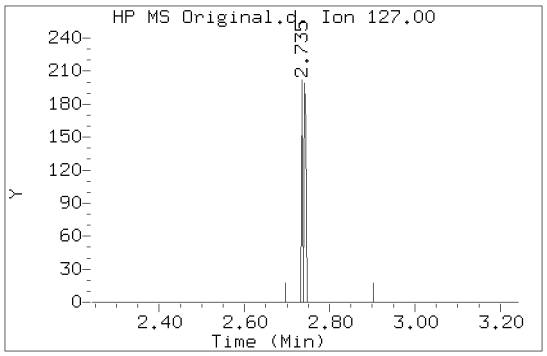
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12:20
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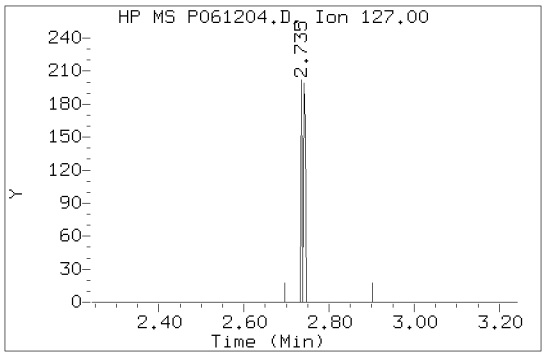
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12:20
RUCHA
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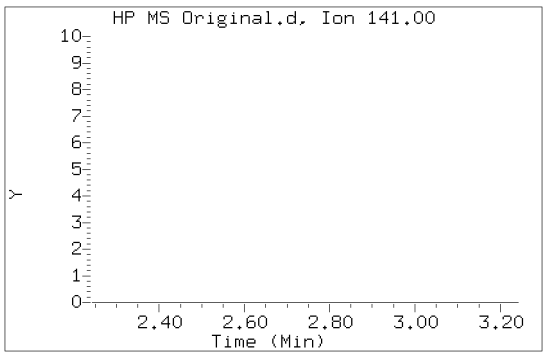
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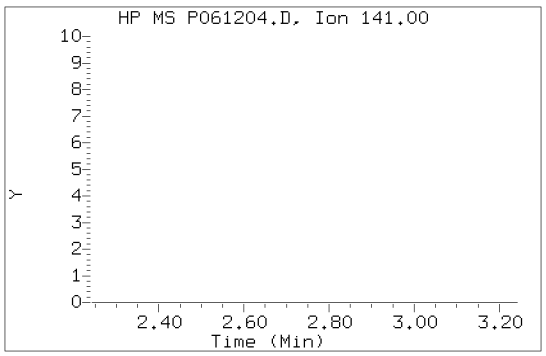
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AFTER

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12:20
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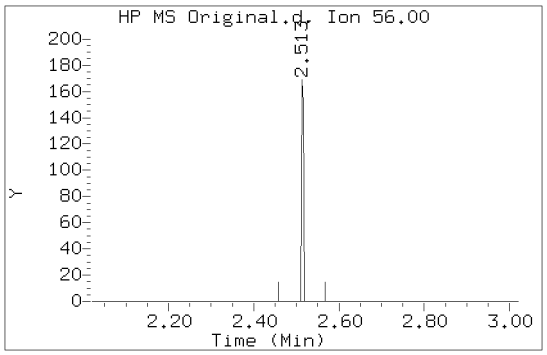


Acrolein (107-02-8)

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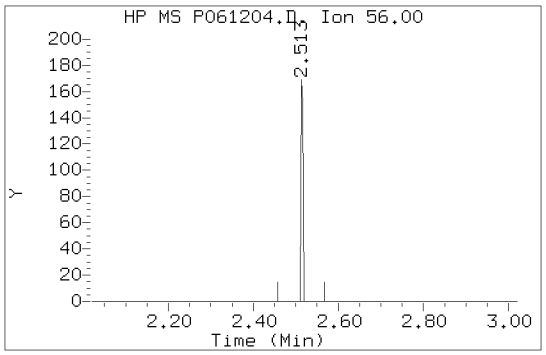
BEFORE

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AREA
61
HEIGHT
169
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
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HEIGHT
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22-Jun-2024
12:20
RUCHA
PATEL



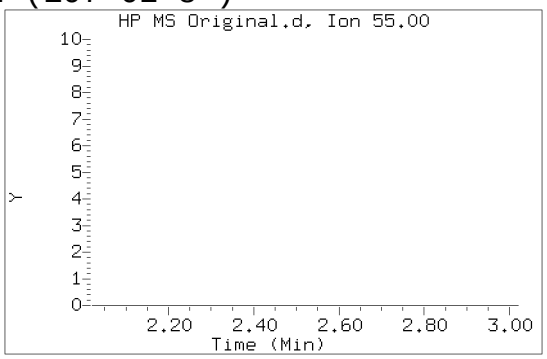
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InstruID : voa7.i
LabSampID : VSTD001

Acrolein (107-02-8)

Reason Code:

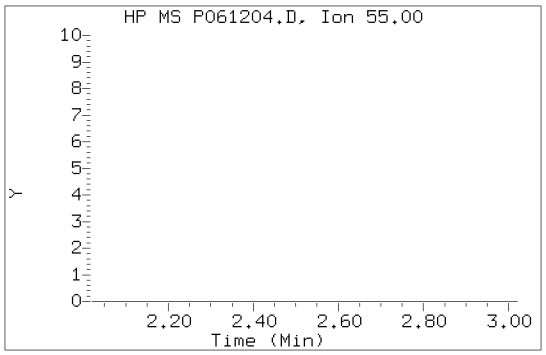
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AFTER

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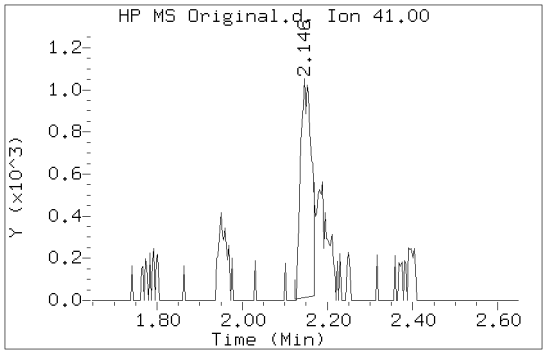


Methacrylonitrile (126-98-7)

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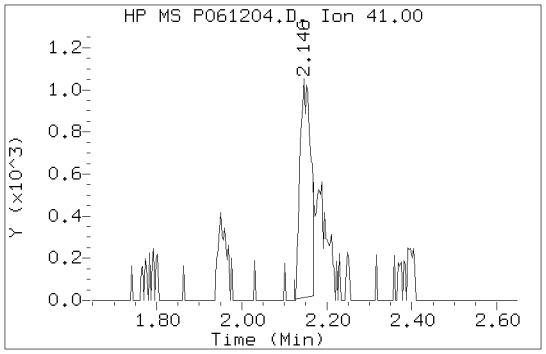
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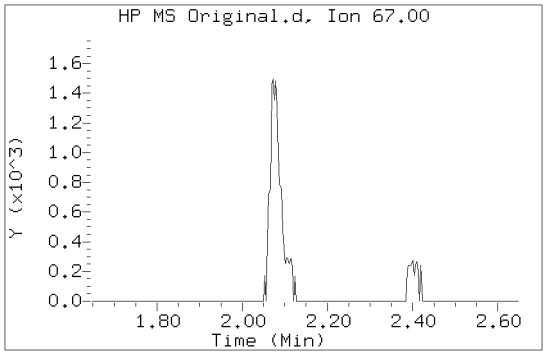
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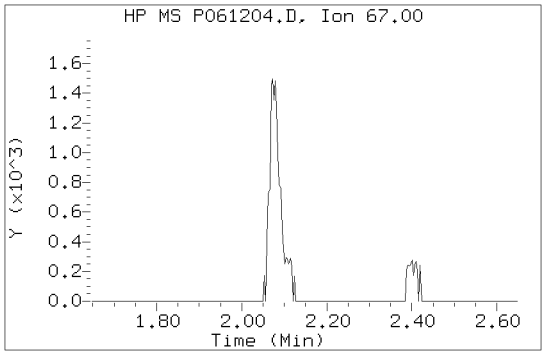
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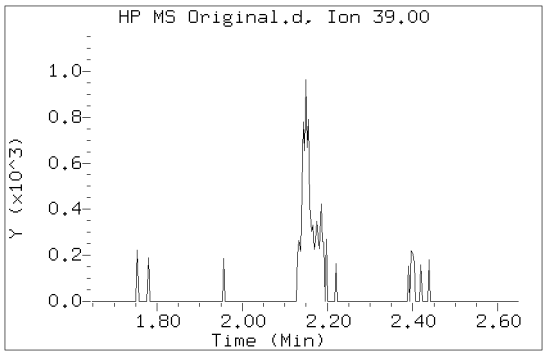
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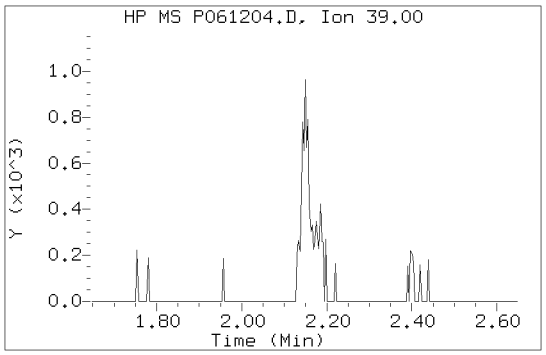
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22-Jun-2024
12:20
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PATEL



AFTER

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AREA
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HEIGHT
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22-Jun-2024
12:20
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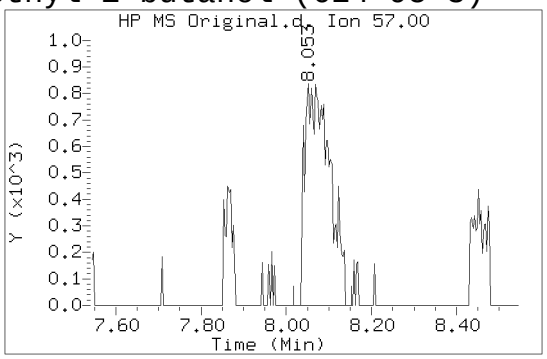
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Inj Date : 12-JUN-2024 12:05
InstruID : voa7.i
LabSampID : VSTD001

3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

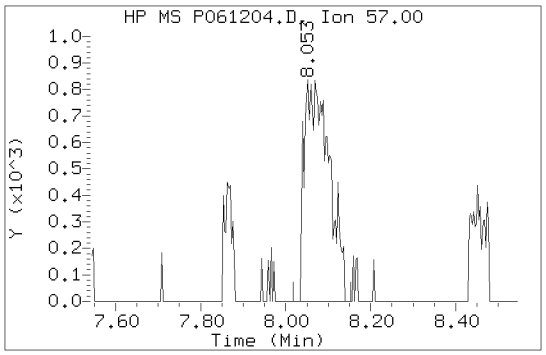
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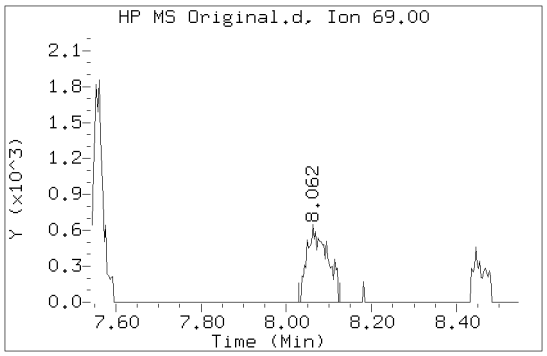
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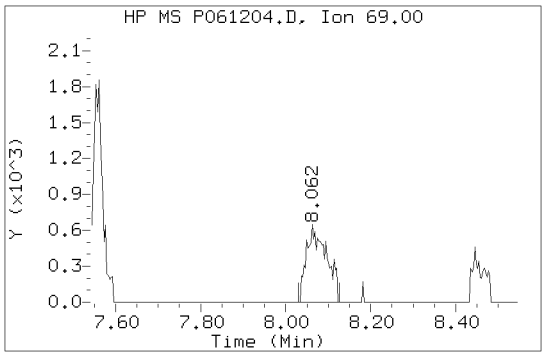
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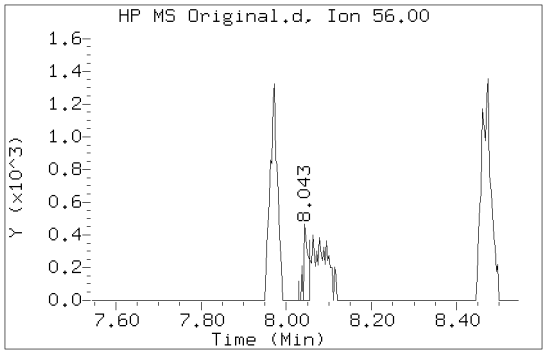
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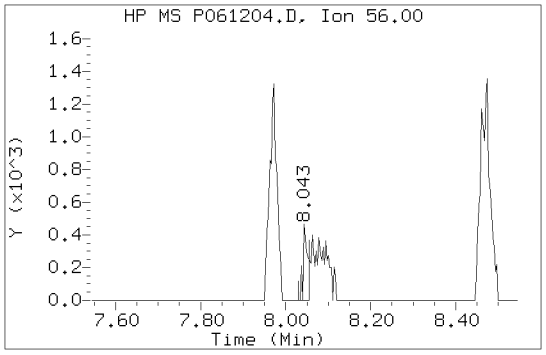
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AFTER

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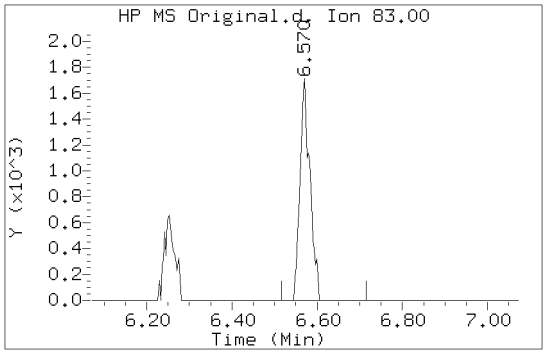


Bromodichloromethane (75-27-4)

Reason Code:

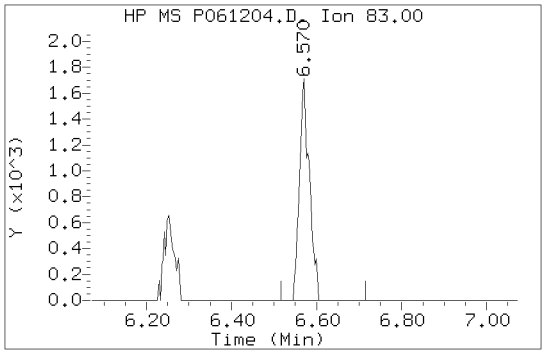
BEFORE

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HEIGHT
1712
22-Jun-2024
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AFTER

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1712
22-Jun-2024
12:20
RUCHA
PATEL



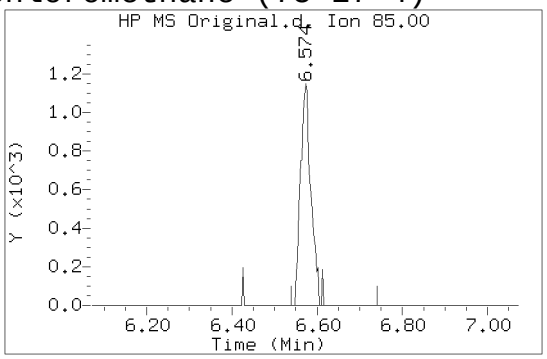
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Inj Date : 12-JUN-2024 12:05
InstruID : voa7.i
LabSampID : VSTD001

Bromodichloromethane (75-27-4)

Reason Code:

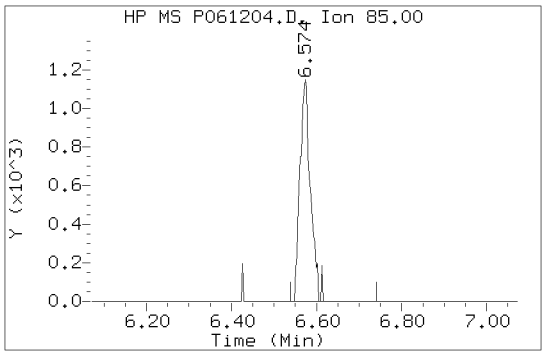
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22-Jun-2024
12:20
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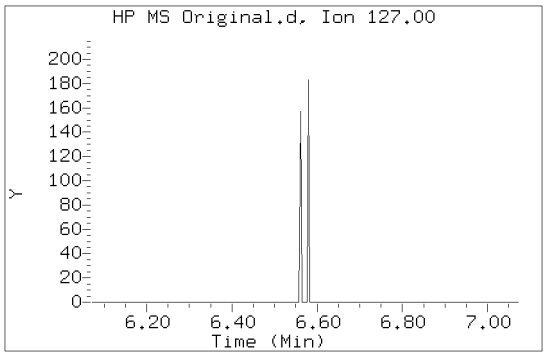
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22-Jun-2024
12:20
RUCHA
PATEL



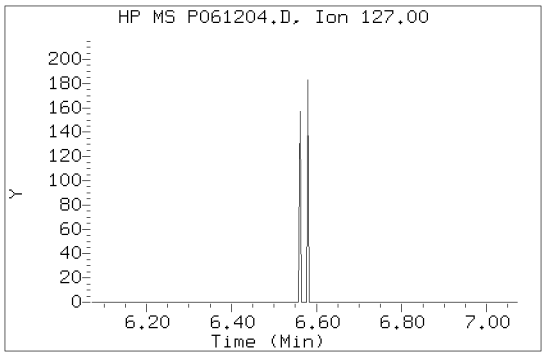
BEFORE

MASS
127
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
127
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL

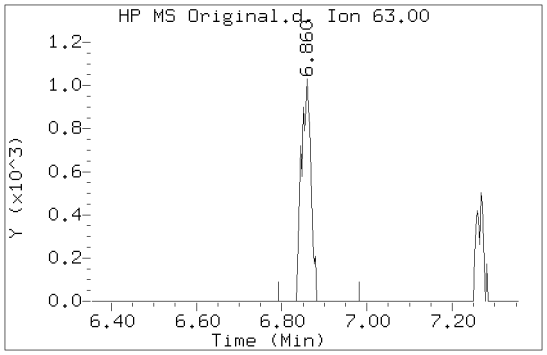


2-Chloroethylvinyl ether (110-75-8)

Reason Code:

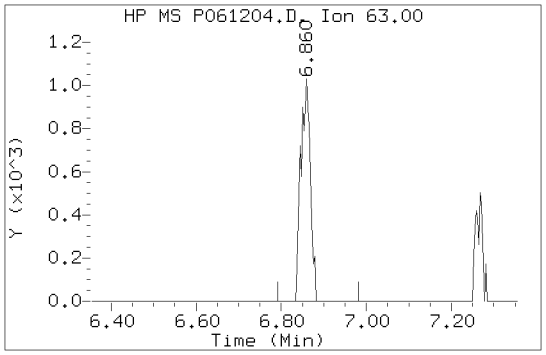
BEFORE

MASS
63
AREA
1601
HEIGHT
1030
22-Jun-2024
12:20
RUCHA
PATEL



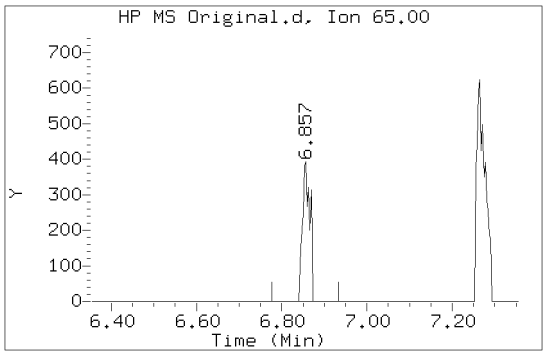
AFTER

MASS
63
AREA
1601
HEIGHT
1030
22-Jun-2024
12:20
RUCHA
PATEL



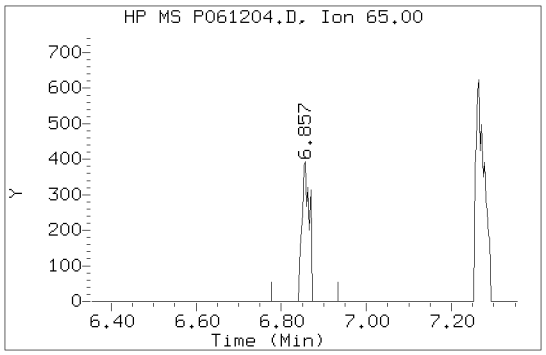
BEFORE

MASS
65
AREA
477
HEIGHT
393
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
65
AREA
477
HEIGHT
393
22-Jun-2024
12:20
RUCHA
PATEL



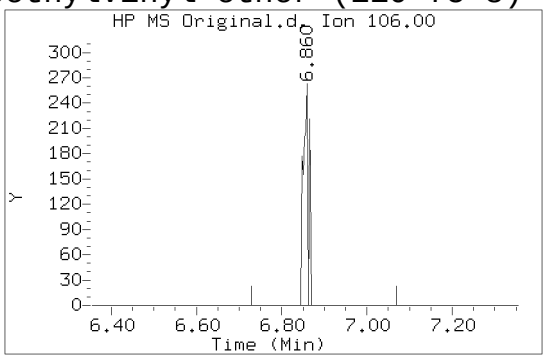
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Inj Date : 12-JUN-2024 12:05
InstruID : voa7.i
LabSampID : VSTD001

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

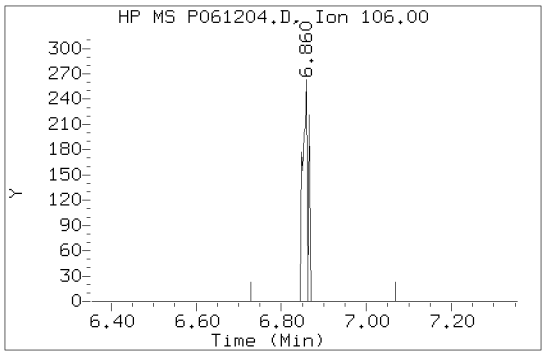
BEFORE

MASS
106
AREA
235
HEIGHT
263
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
106
AREA
235
HEIGHT
263
22-Jun-2024
12:20
RUCHA
PATEL

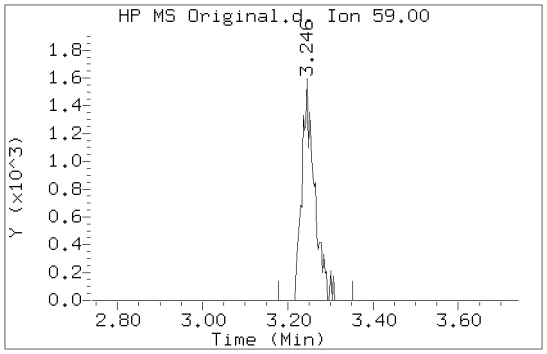


tert-Butyl formate (762-75-4)

Reason Code:

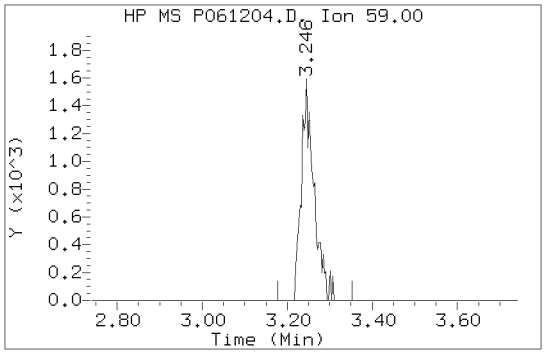
BEFORE

MASS
59
AREA
3268
HEIGHT
1595
22-Jun-2024
12:20
RUCHA
PATEL



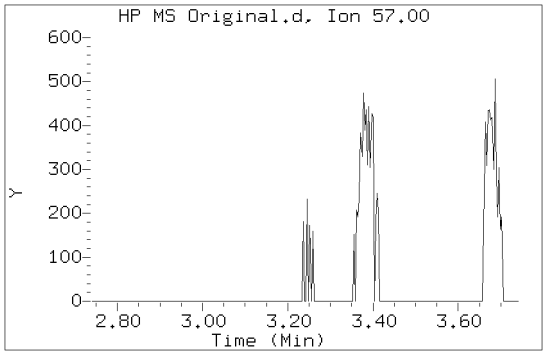
AFTER

MASS
59
AREA
3268
HEIGHT
1595
22-Jun-2024
12:20
RUCHA
PATEL



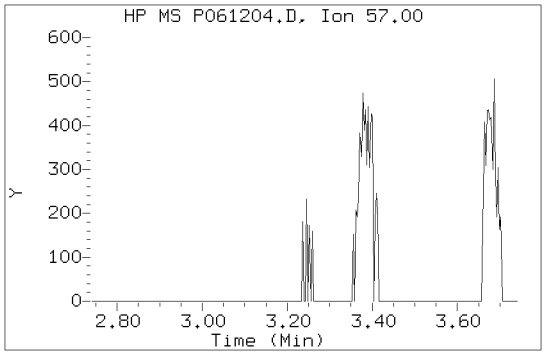
BEFORE

MASS
57
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



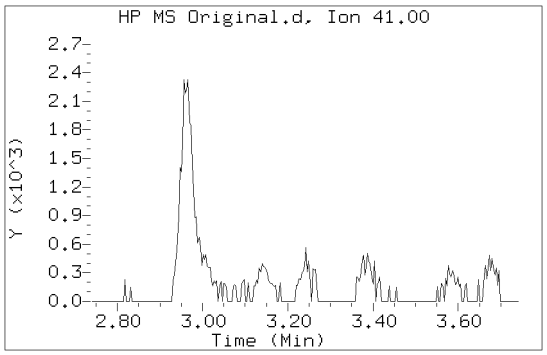
AFTER

MASS
57
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



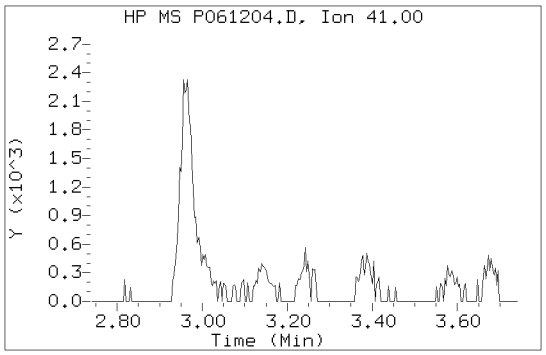
BEFORE

MASS
41
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
41
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL

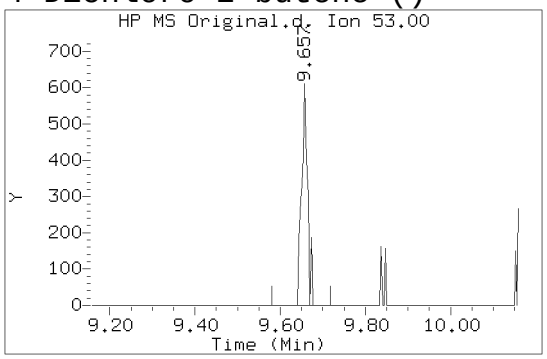


Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061204.D
Inj Date : 12-JUN-2024 12:05
InstruID : voa7.i
LabSampID : VSTD001

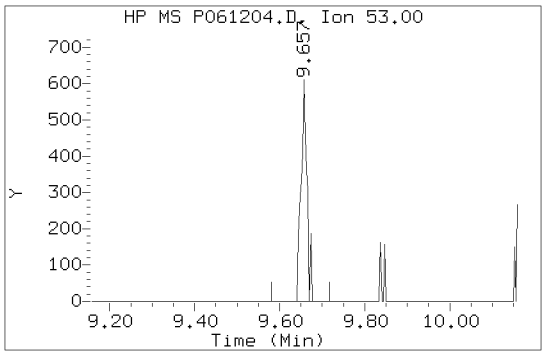
trans-1,4-Dichloro-2-butene ()

Reason Code:

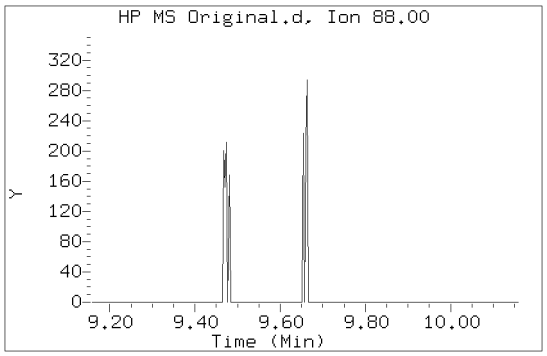
BEFORE
MASS
53
AREA
604
HEIGHT
611
22-Jun-2024
12:20
RUCHA
PATEL



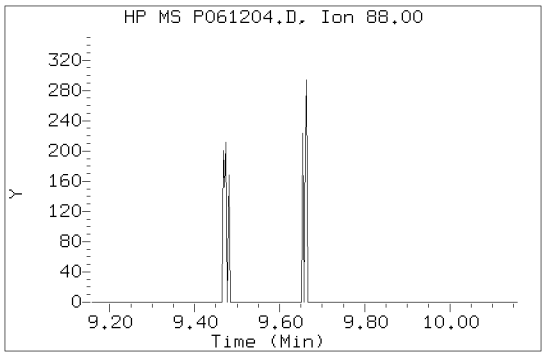
AFTER
MASS
53
AREA
604
HEIGHT
611
22-Jun-2024
12:20
RUCHA
PATEL



BEFORE
MASS
88
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



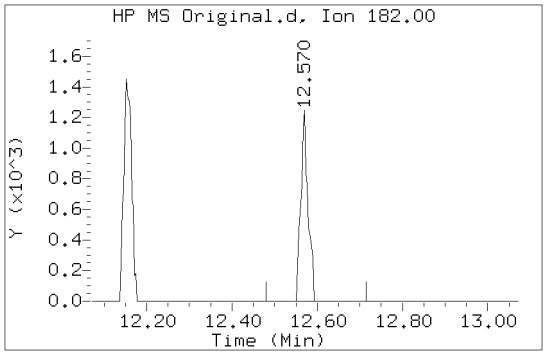
AFTER
MASS
88
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



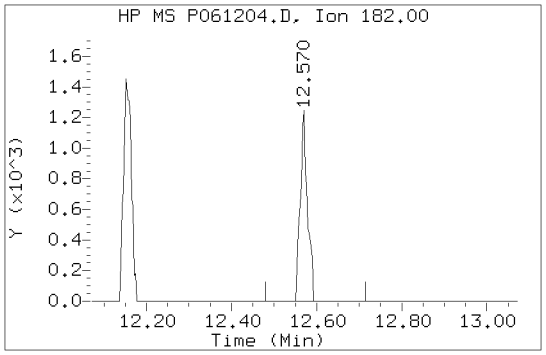
1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

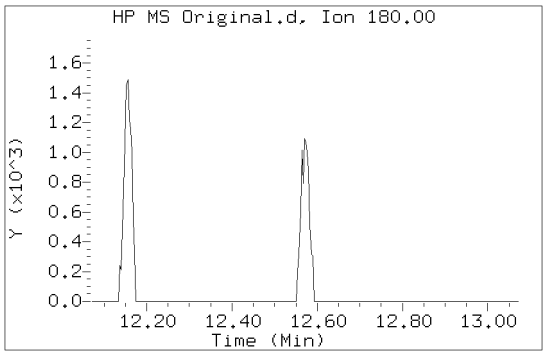
BEFORE
MASS
182
AREA
1472
HEIGHT
1245
22-Jun-2024
12:20
RUCHA
PATEL



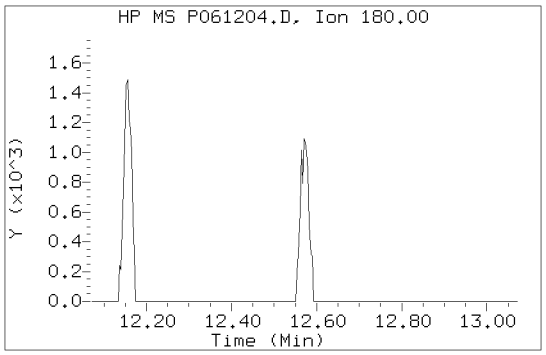
AFTER
MASS
182
AREA
1472
HEIGHT
1245
22-Jun-2024
12:20
RUCHA
PATEL



BEFORE
MASS
180
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER
MASS
180
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



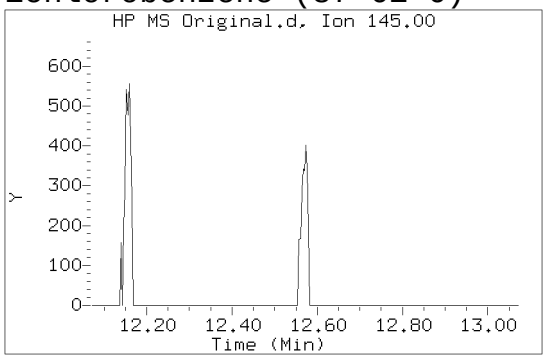
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061204.D
Inj Date : 12-JUN-2024 12:05
InstruID : voa7.i
LabSampID : VSTD001

1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

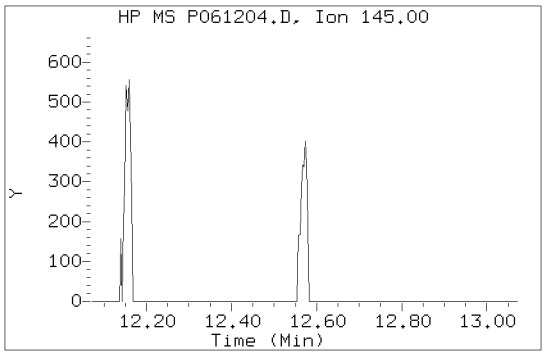
BEFORE

MASS
145
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
145
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL

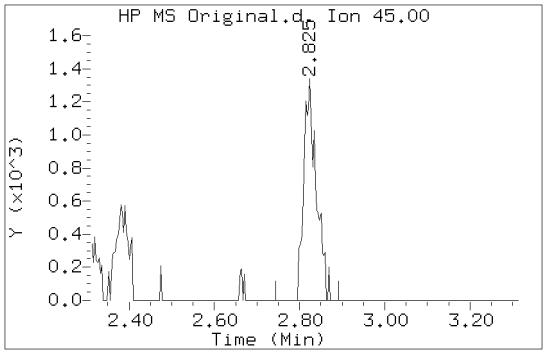


Isopropyl alcohol (67-63-0)

Reason Code:

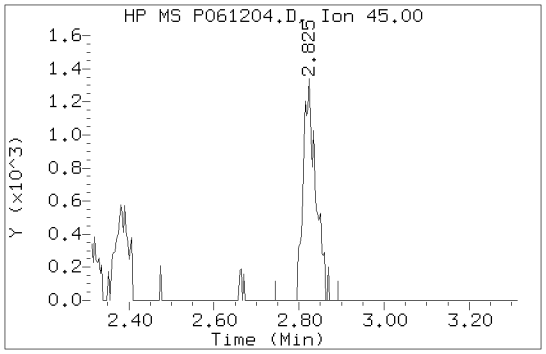
BEFORE

MASS
45
AREA
2719
HEIGHT
1340
22-Jun-2024
12:20
RUCHA
PATEL



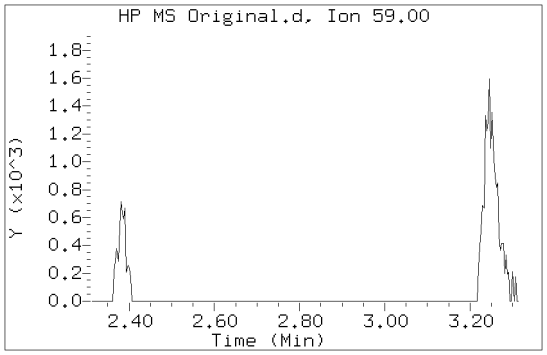
AFTER

MASS
45
AREA
2719
HEIGHT
1340
22-Jun-2024
12:20
RUCHA
PATEL



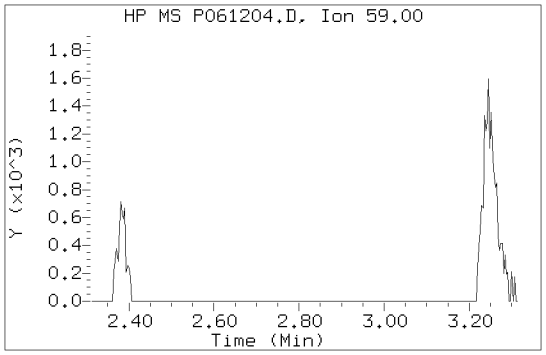
BEFORE

MASS
59
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
59
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL

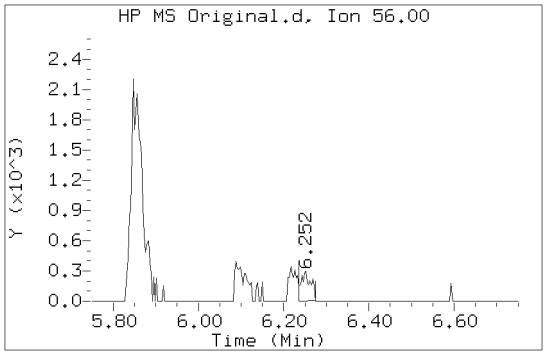


n-Butanol (71-36-3)

Reason Code:

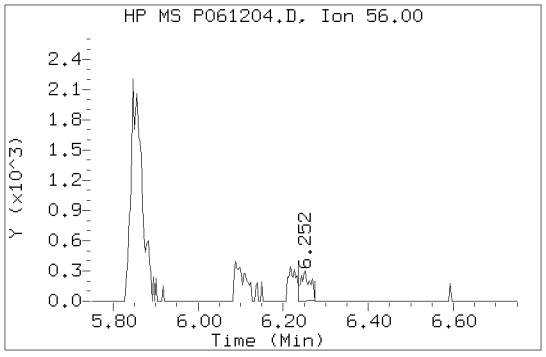
BEFORE

MASS
56
AREA
460
HEIGHT
294
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
56
AREA
460
HEIGHT
294
22-Jun-2024
12:20
RUCHA
PATEL

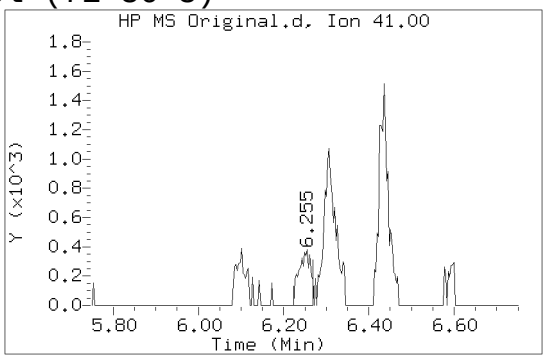


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Inj Date : 12-JUN-2024 12:05
InstruID : voa7.i
LabSampID : VSTD001

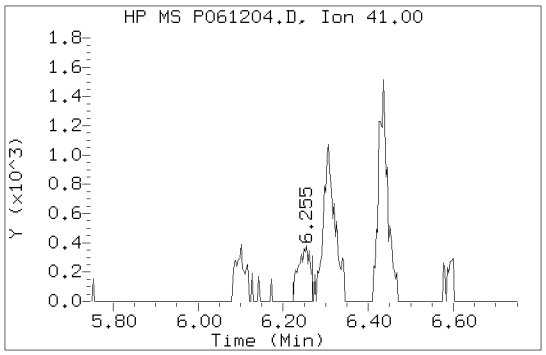
n-Butanol (71-36-3)

Reason Code:

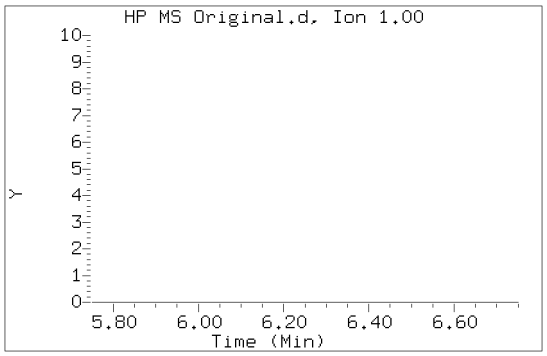
BEFORE
MASS
41
AREA
719
HEIGHT
379
22-Jun-2024
12:20
RUCHA
PATEL



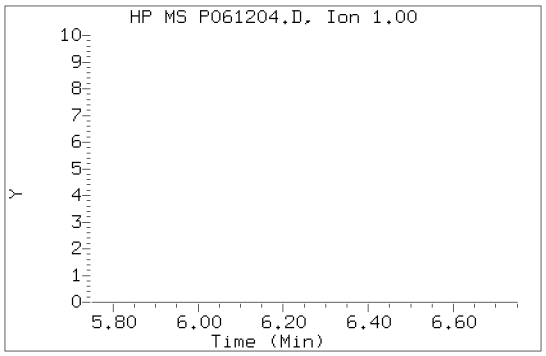
AFTER
MASS
41
AREA
719
HEIGHT
379
22-Jun-2024
12:20
RUCHA
PATEL



BEFORE
MASS
1
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



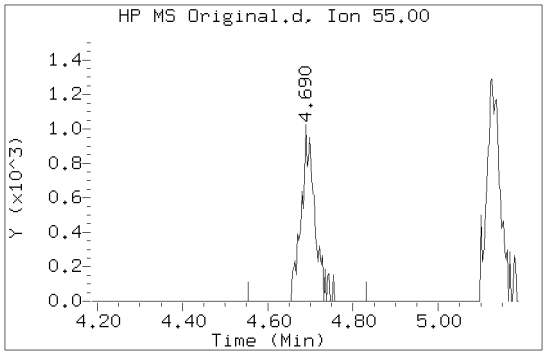
AFTER
MASS
1
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



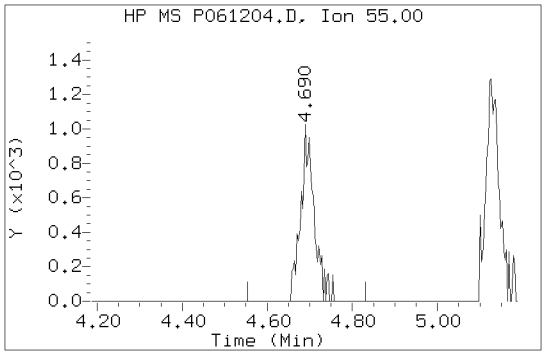
Methyl Acrylate (96-33-3)

Reason Code:

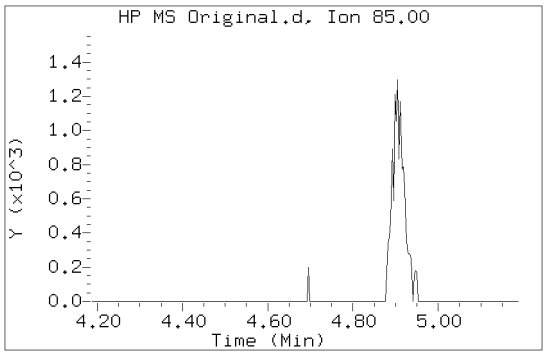
BEFORE
MASS
55
AREA
2257
HEIGHT
1026
22-Jun-2024
12:20
RUCHA
PATEL



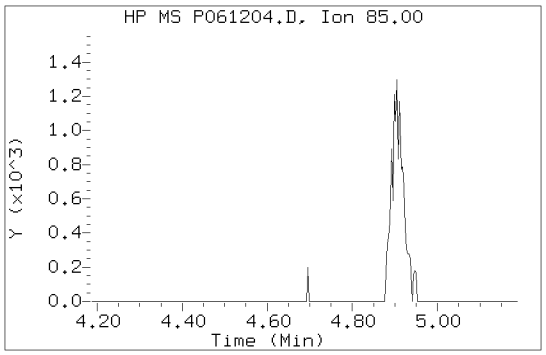
AFTER
MASS
55
AREA
2257
HEIGHT
1026
22-Jun-2024
12:20
RUCHA
PATEL



BEFORE
MASS
85
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER
MASS
85
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



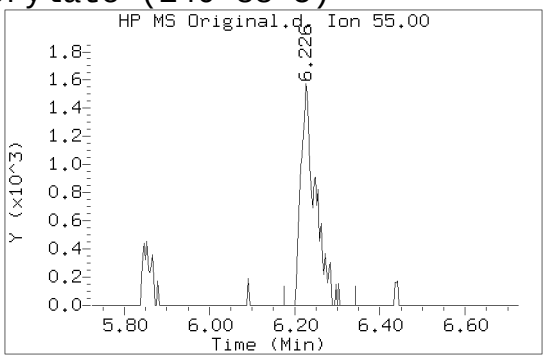
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061204.D
Inj Date : 12-JUN-2024 12:05
InstruID : voa7.i
LabSampID : VSTD001

Ethyl Acrylate (140-88-5)

Reason Code:

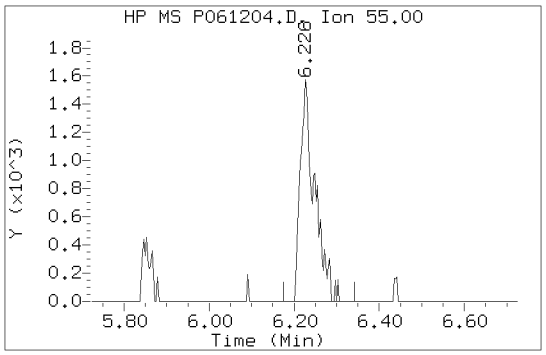
BEFORE

MASS
55
AREA
3710
HEIGHT
1574
22-Jun-2024
12:20
RUCHA
PATEL



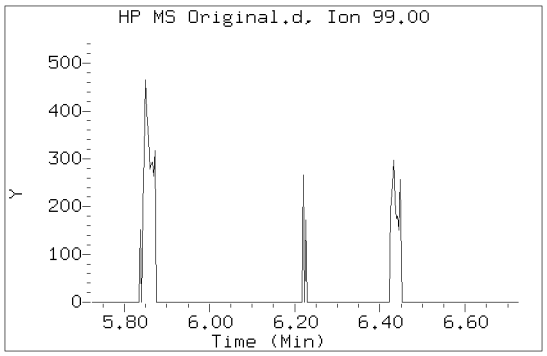
AFTER

MASS
55
AREA
3710
HEIGHT
1574
22-Jun-2024
12:20
RUCHA
PATEL



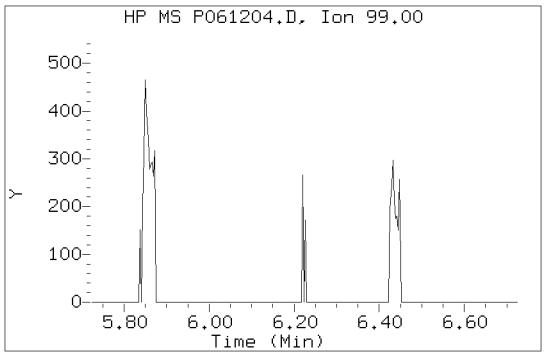
BEFORE

MASS
99
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
99
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL

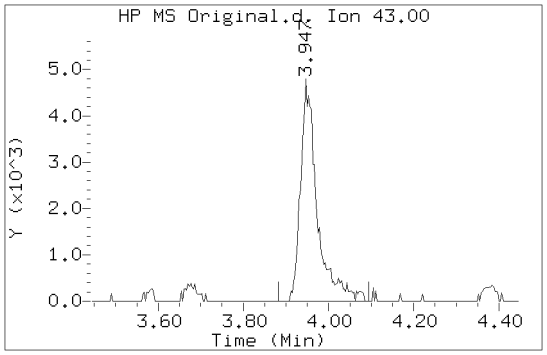


Ethyl Acetate (141-78-6)

Reason Code:

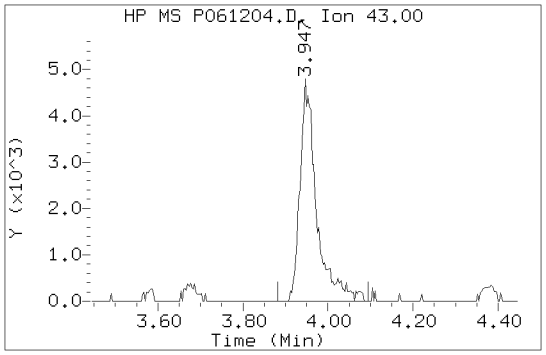
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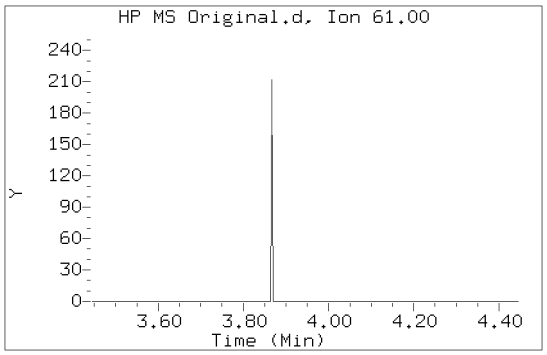
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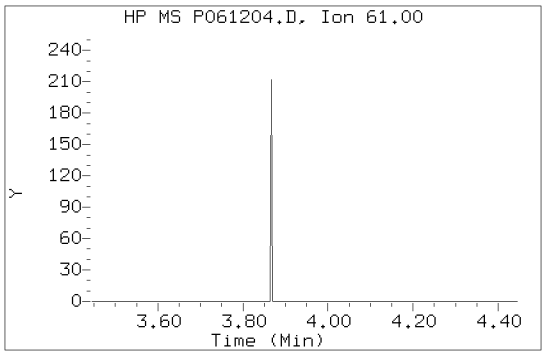
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AFTER

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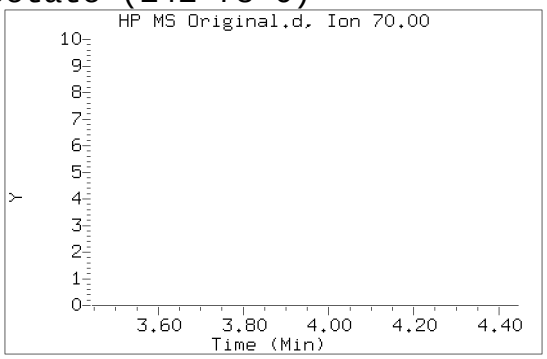
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LabSampID : VSTD001

Ethyl Acetate (141-78-6)

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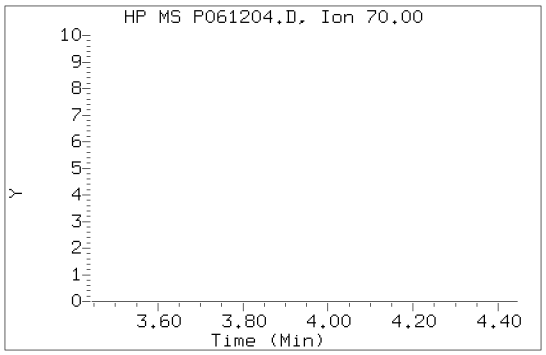
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AFTER

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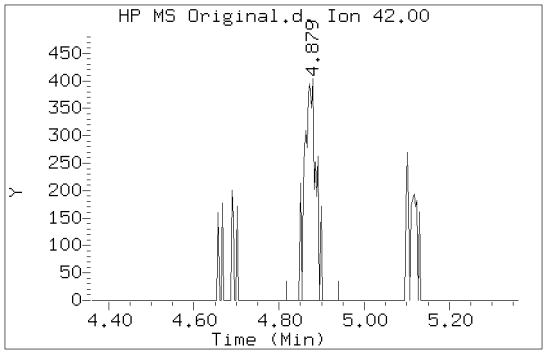


Tetrahydrofuran (109-99-9)

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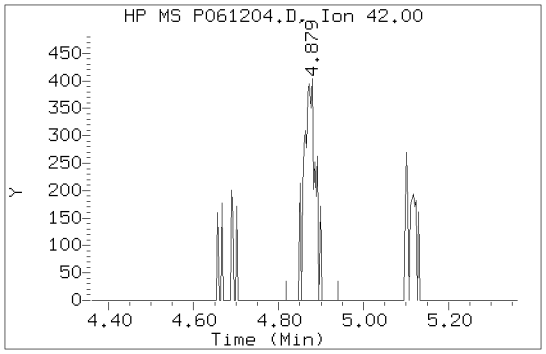
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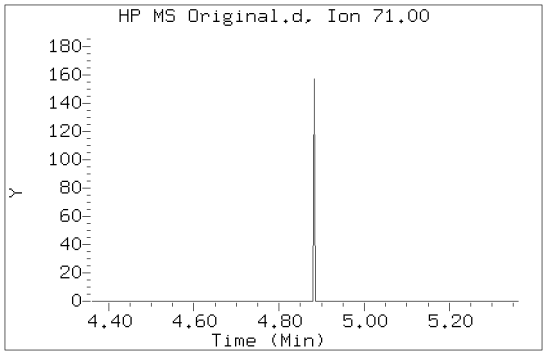
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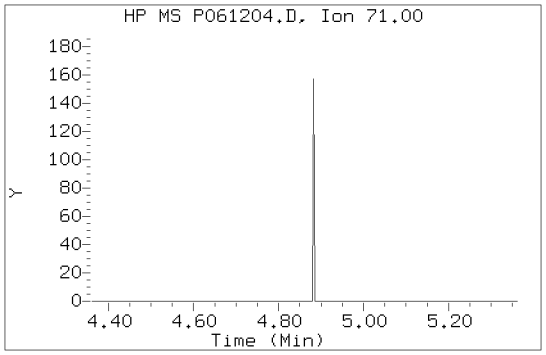
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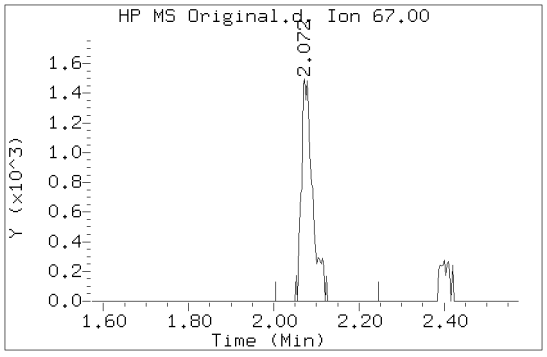


Dichlorofluoromethane (75-43-4)

Reason Code:

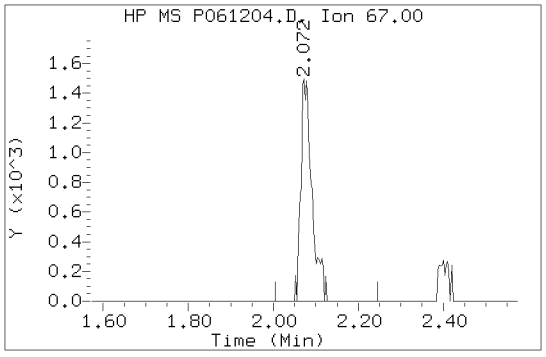
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22-Jun-2024
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RUCHA
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AFTER

MASS
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HEIGHT
1496
22-Jun-2024
12:20
RUCHA
PATEL



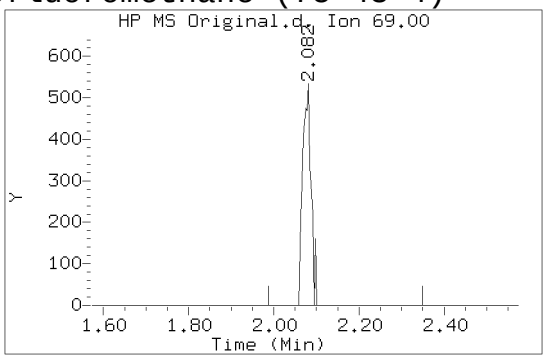
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LabSampID : VSTD001

Dichlorofluoromethane (75-43-4)

Reason Code:

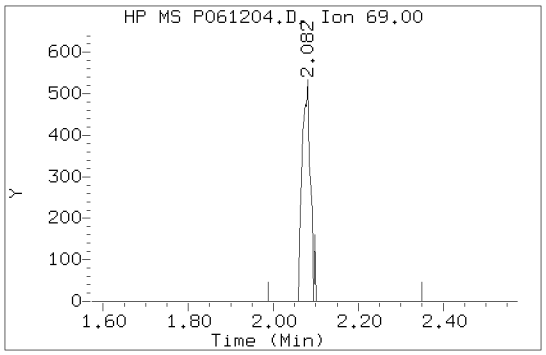
BEFORE

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22-Jun-2024
12:20
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PATEL



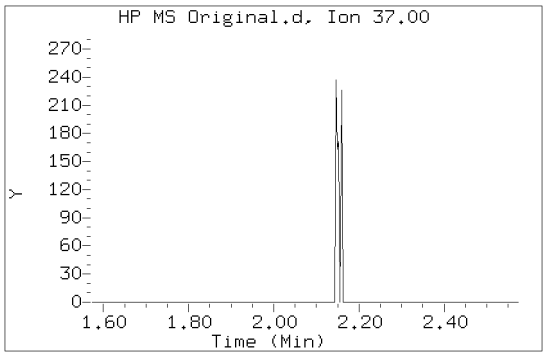
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22-Jun-2024
12:20
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PATEL



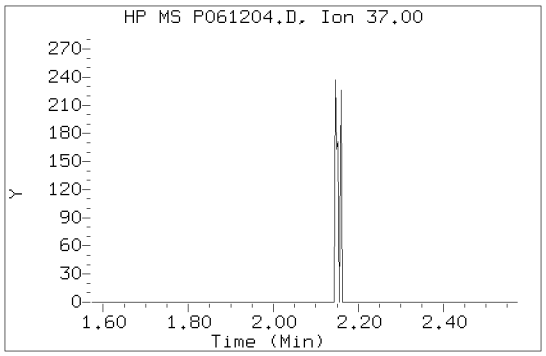
BEFORE

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0
22-Jun-2024
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AFTER

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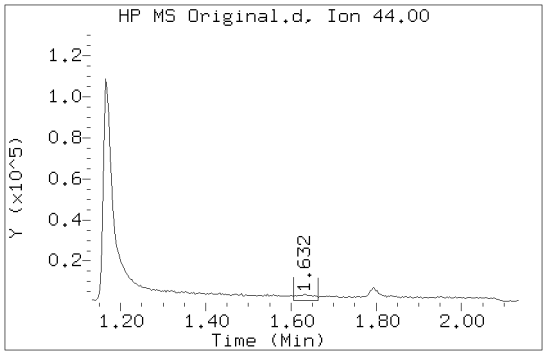


Acetaldehyde (75-07-0)

Reason Code:

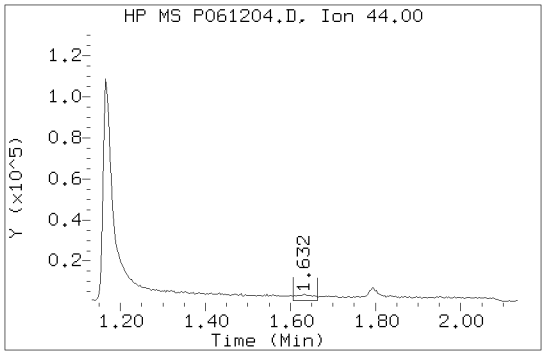
BEFORE

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2981
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

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8787
HEIGHT
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22-Jun-2024
12:20
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PATEL



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061205.D Page 1
Report Date: 22-Jun-2024 12:21

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061205.D
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Inj Date : 12-JUN-2024 12:28
Operator : AP Inst ID: voa7.i
Smp Info : VSTD002
Misc Info : HS220328V7;WATER;0;1;
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Cal Date : 12-JUN-2024 12:05 Cal File: P061204.D
Als bottle: 8 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	5.133	5.133	(1.000)	119630	50.0000	
2	Dichlorodifluoromethane	85	1.300	1.300	(0.253)	1833	2.00000	1.28
159	Dichlorofluoromethane	67	2.075	2.075	(0.404)	6170	2.00000	2.49(M)
3	Chloromethane	50	1.451	1.451	(0.283)	5007	2.00000	1.95(a)
4	Propionitrile	54	4.676	4.676	(0.911)	5206	20.0000	27.92
5	Vinyl Chloride	62	1.538	1.538	(0.300)	3135	2.00000	1.76
6	Bromomethane	94	1.808	1.808	(0.352)	3109	2.00000	2.08
7	Chloroethane	64	1.898	1.898	(0.370)	2127	2.00000	1.74
8	Trichlorofluoromethane	101	2.111	2.111	(0.411)	3166	2.00000	1.69
9	Acrolein	56	2.512	2.512	(0.490)	140	4.00000	7.12(M)
10	Acetone	43	2.676	2.676	(0.521)	3461	4.00000	2.68
11	1,1-Dichloroethene	96	2.590	2.590	(0.505)	1692	2.00000	1.46
12	Isobutyl Alcohol	43	5.570	5.570	(1.085)	12752	40.0000	52.59
13	Acetonitrile	39	2.963	2.963	(0.577)	5409	20.0000	29.79
14	Allyl Chloride	41	2.963	2.963	(0.577)	11778	2.00000	2.90
15	Iodomethane	142	2.741	2.741	(0.534)	1257	4.00000	6.48(M)
16	Acrylonitrile	53	3.374	3.374	(0.657)	2373	4.00000	5.48
17	Methylene Chloride	84	3.094	3.094	(0.603)	4884	2.00000	2.35
18	Methyl tert-butyl ether	73	3.377	3.377	(0.658)	9247	2.00000	3.79
19	Carbon Disulfide	76	2.799	2.799	(0.545)	15355	4.00000	4.44

20 trans-1,2-Dichloroethene	96	3.377	3.377 (0.658)	2473	2.00000	1.93
21 Vinyl Acetate	43	4.663	4.663 (0.909)	5007	4.00000	5.80

			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
	22	1,1-Dichloroethane	63	3.860	3.860	(0.752)	6081	2.00000	2.25
	23	Chloroprene	53	3.972	3.972	(0.774)	3787	2.00000	1.68(a)
	24	2-Butanone	43	4.593	4.593	(0.895)	4968	4.00000	6.60
	25	Methacrylonitrile	41	2.149	2.149	(0.419)	4985	2.00000	3.62(M)
	26	2,2-Dichloropropane	77	4.535	4.535	(0.883)	3983	2.00000	2.25
	27	cis-1,2-Dichloroethene	96	4.544	4.544	(0.885)	3811	2.00000	2.69
	28	Chloroform	83	4.901	4.901	(0.955)	6529	2.00000	2.29
	29	Bromochloromethane	128	4.808	4.808	(0.937)	1784	2.00000	2.06
$	30	Dibromofluoromethane	113	5.072	5.072	(0.988)	4300	2.00000	2.94
	31	1,1,1-Trichloroethane	97	5.075	5.075	(0.989)	3666	2.00000	2.09
	32	1,1-Dichloropropene	75	5.245	5.245	(0.896)	3678	2.00000	2.09
	33	1,2-Dichloroethane	62	5.493	5.493	(0.938)	5862	2.00000	2.26
	34	Carbon Tetrachloride	117	5.233	5.233	(0.894)	3233	2.00000	2.20
$	35	1,2-Dichloroethane-d4	65	5.422	5.422	(1.056)	5824	2.00000	2.72
*	36	1,4-Difluorobenzene	114	5.853	5.853	(1.000)	202949	50.0000	
	37	Benzene	78	5.461	5.461	(0.933)	12786	2.00000	2.07
	38	Trichloroethene	130	6.085	6.085	(1.040)	2891	2.00000	2.04
	39	Bromodichloromethane	83	6.577	6.577	(1.124)	5306	2.00000	2.63
	40	Methyl Methacrylate	41	6.438	6.438	(1.254)	4000	2.00000	2.01
	41	2-Chloroethylvinyl ether	63	6.853	6.853	(1.171)	2824	4.00000	4.70(aM)
	42	1,2-Dichloropropane	63	6.313	6.313	(1.079)	3943	2.00000	2.39
	43	2-Nitropropane	43	6.808	6.808	(1.326)	1280	2.00000	3.61(a)
	44	Dibromomethane	93	6.425	6.425	(1.098)	2361	2.00000	2.53
	45	4-Methyl-2-Pentanone	43	7.126	7.126	(0.842)	9217	4.00000	4.42
	46	cis-1,3-Dichloropropene	75	6.975	6.975	(1.192)	5638	2.00000	3.19
*	47	Chlorobenzene-d5	117	8.467	8.467	(1.000)	190307	50.0000	
$	48	Toluene-d8	98	7.207	7.207	(0.851)	15674	2.00000	2.08
	49	Ethyl Methacrylate	69	8.075	8.075	(1.380)	2930	2.00000	2.52
	50	Toluene	91	7.265	7.265	(0.858)	13432	2.00000	1.60
	51	trans-1,3-Dichloropropene	75	6.975	6.975	(1.192)	5638	2.00000	3.19
	52	2-Hexanone	43	7.859	7.859	(0.928)	6350	4.00000	4.67
	53	1,1,2-Trichloroethane	83	7.638	7.638	(0.902)	3155	2.00000	1.81
	54	1,3-Dichloropropane	76	7.786	7.786	(0.919)	6405	2.00000	1.84
	55	Dibromochloromethane	129	7.972	7.972	(0.942)	3975	2.00000	2.44
	56	Tetrachloroethene	164	7.737	7.737	(0.914)	1867	2.00000	1.34
	57	1,2-Dibromoethane	107	8.075	8.075	(0.954)	3262	2.00000	2.21
	58	1-Chlorohexane	55	8.467	8.467	(1.447)	4335	2.00000	1.48
	59	Chlorobenzene	112	8.490	8.490	(1.003)	9520	2.00000	1.87
	60	1,1,1,2-Tetrachloroethane	131	8.557	8.557	(1.011)	3184	2.00000	2.31
	61	Ethylbenzene	106	8.583	8.583	(1.014)	4421	2.00000	1.89
	62	m,p-Xylenes	106	8.683	8.683	(1.025)	10925	4.00000	3.51
	63	o-Xylene	106	9.023	9.023	(1.066)	5603	2.00000	1.81
	64	Styrene	104	9.036	9.036	(1.067)	9482	2.00000	2.13
	66	Bromoform	173	9.203	9.203	(1.087)	2434	2.00000	2.71(T)
	67	Isopropylbenzene	105	9.339	9.339	(1.103)	11370	2.00000	1.47
	68	1,1,2,2-Tetrachloroethane	83	9.609	9.609	(0.919)	5085	2.00000	1.69
$	69	4-Bromofluorobenzene	95	9.474	9.474	(1.119)	8132	2.00000	2.42
*	70	1,4-Dichlorobenzene-d4	152	10.457	10.457	(1.000)	89278	50.0000	
	71	1,2,3-Trichloropropane	75	9.647	9.647	(0.923)	5811	2.00000	1.87
	72	trans-1,4-Dichloro-2-butene	53	9.654	9.654	(1.140)	1085	2.00000	2.91
	73	n-Propylbenzene	91	9.689	9.689	(0.927)	14008	2.00000	1.15
	74	Bromobenzene	156	9.602	9.602	(0.918)	4190	2.00000	1.56

75	1,3,5-Trimethylbenzene	105	9.840	9.840 (0.941)	10479	2.00000	1.58
76	2-Chlorotoluene	91	9.763	9.763 (0.934)	10626	2.00000	1.38

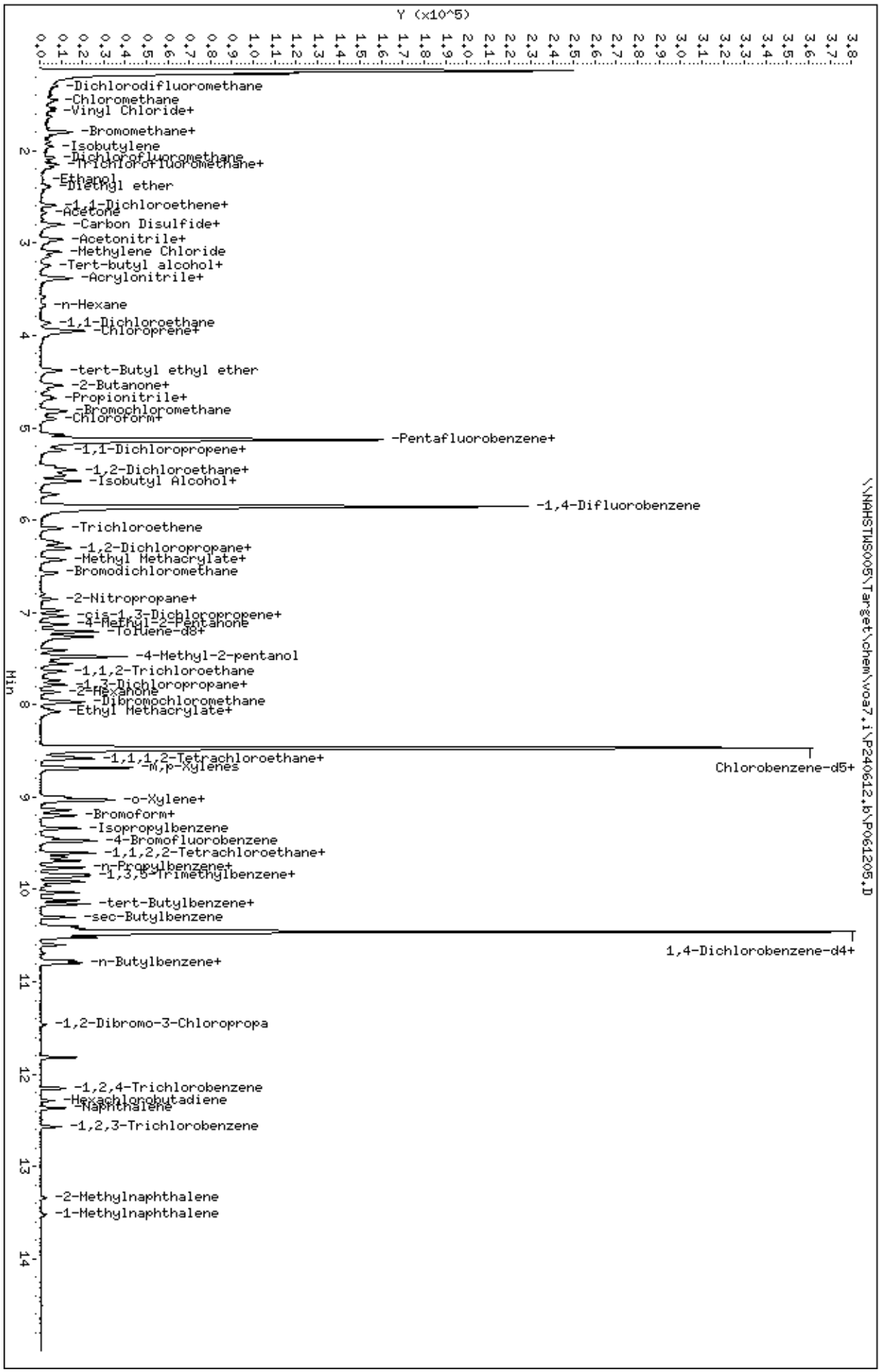
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Report Date: 22-Jun-2024 12:21

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
77	4-Chlorotoluene	91	9.856	9.856	(0.943)	12467	2.00000	1.41
78	tert-Butylbenzene	119	10.117	10.117	(0.967)	7955	2.00000	0.95(a)
79	1,2,4-Trimethylbenzene	105	10.158	10.158	(0.971)	11212	2.00000	1.45
81	sec-Butylbenzene	105	10.303	10.303	(0.985)	9992	2.00000	0.92(a)
82	p-Isopropyltoluene	119	10.425	10.425	(0.997)	9592	2.00000	1.88
83	1,3-Dichlorobenzene	146	10.400	10.400	(0.994)	6890	2.00000	1.71
84	1,4-Dichlorobenzene	146	10.477	10.477	(1.002)	7277	2.00000	1.67
87	n-Butylbenzene	91	10.776	10.776	(1.030)	7997	2.00000	1.73
88	1,2-Dichlorobenzene	146	10.798	10.798	(1.033)	6840	2.00000	1.74
89	1,2-Dibromo-3-Chloropropane	75	11.464	11.464	(1.096)	606	2.00000	2.29
90	1,2,4-Trichlorobenzene	180	12.158	12.158	(1.163)	3484	2.00000	2.30
91	Hexachlorobutadiene	225	12.284	12.284	(1.175)	1306	2.00000	1.79
92	Naphthalene	128	12.367	12.367	(1.183)	7916	2.00000	2.24
93	1,2,3-Trichlorobenzene	182	12.567	12.567	(1.202)	2374	2.00000	2.18(M)
146	Methyl acetate	43	2.998	2.998	(0.584)	3590	2.00000	3.05(a)
138	Freon TF	101	2.599	2.599	(0.506)	1434	2.00000	1.76
139	Diethyl ether	59	2.377	2.377	(0.463)	2216	2.00000	3.07
140	1,3-Butadiene	54	1.561	1.561	(0.304)	874	2.00000	1.98(a)
141	Cyclohexane	56	5.130	5.130	(0.999)	4809	2.00000	2.15
147	Methylcyclohexane	83	6.249	6.249	(1.068)	3793	2.00000	2.88
132	n-Butanol	56	6.252	6.252	(1.218)	1996	40.0000	50.11(TM)
131	Methyl Acrylate	55	4.689	4.689	(0.914)	4202	2.00000	2.60
133	Ethyl Acrylate	55	6.220	6.220	(1.212)	8585	2.00000	2.53(M)
136	n-Hexane	57	3.686	3.686	(0.718)	1262	2.00000	1.95
142	Tetrahydrofuran	42	4.863	4.863	(0.947)	1310	4.00000	6.81
148	Tert-butyl alcohol	59	3.239	3.239	(0.631)	5655	40.0000	33.26
149	Isopropyl alcohol	45	2.821	2.821	(0.550)	4734	40.0000	60.31(M)
151	4-Methyl-2-pentanol	45	7.477	7.477	(0.883)	22526	40.0000	62.08
166	1,2,3-Trimethylbenzene	105	10.522	10.522	(1.006)	12970	2.00000	1.85
167	Ethanol	45	2.307	2.307	(0.449)	1128	40.0000	27.65(T)
172	tert-Butyl formate	59	3.239	3.239	(0.631)	6008	4.00000	3.69
173	3,3-Dimethyl-1-butanol	57	8.068	8.068	(0.953)	5907	40.0000	58.31(M)
174	tert-Amyl methyl ether	73	5.583	5.583	(1.088)	11166	2.00000	2.53
175	tert-Butyl ethyl ether	59	4.387	4.387	(0.855)	10850	2.00000	2.66
157	2-Methylnaphthalene	142	13.345	13.345	(1.276)	1586	2.00000	4.16
156	Diisopropyl ether	45	3.950	3.950	(0.770)	11883	2.00000	2.95(T)
171	1-Methylnaphthalene	142	13.522	13.522	(1.293)	1519	2.00000	3.99
130	Ethyl Acetate	43	3.946	3.946	(0.769)	25416	2.00000	3.62(aM)
176	tert-Amyl alcohol	59	5.516	5.516	(1.075)	5627	40.0000	31.00
160	Epichlorohydrin	57	6.924	6.924	(1.183)	854	8.00000	10.86
161	Butyl acrylate	55	8.998	8.998	(1.063)	8919	2.00000	3.18(a)
182	Isobutylene	56	1.953	1.953	(0.381)	162	2.00000	0.98(TaAM)
183	Isopropyl Acetate	43	5.570	5.570	(0.952)	12752	2.00000	2.35(aA)
184	n-Amyl acetate	43	9.194	9.194	(1.086)	8186	2.00000	3.62(aA)
185	Acetaldehyde	44	1.628	1.628	(0.317)	11092	8.00000	5.92(AM)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa7,i\P240612,b\P061205,D
Date : 12-JUN-2024 12:28
Client ID: VSTD002
Sample Info: VSTD002
Purge Volume: 5.0
Column phase: DB624

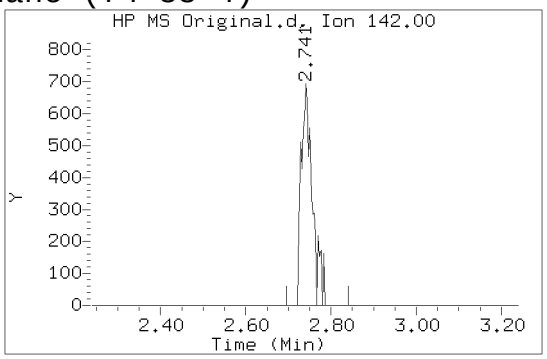
Instrument: voa7,i
Operator: AP
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061205.D
Inj Date : 12-JUN-2024 12:28
InstruID : voa7.i
LabSampID : VSTD002

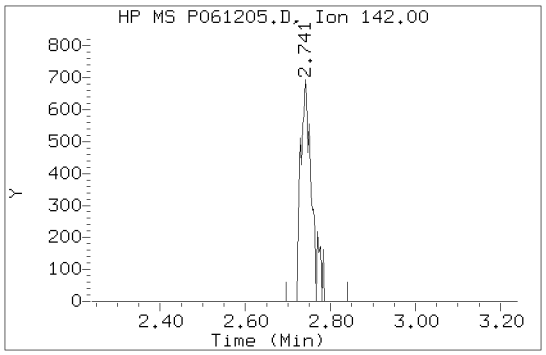
Iodomethane (74-88-4)

Reason Code:

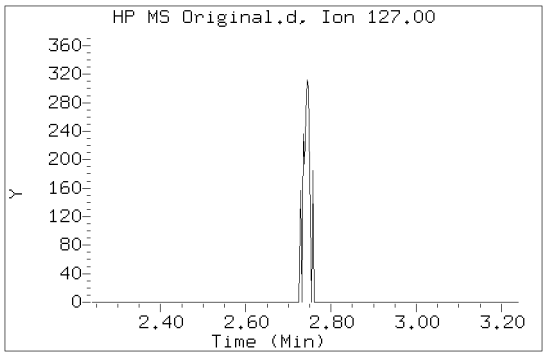
BEFORE
MASS
142
AREA
1257
HEIGHT
694
22-Jun-2024
12:20
RUCHA
PATEL



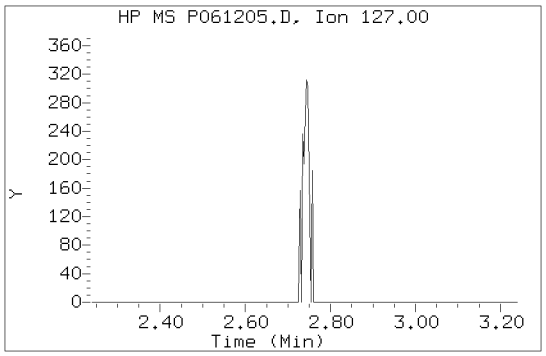
AFTER
MASS
142
AREA
1257
HEIGHT
694
22-Jun-2024
12:20
RUCHA
PATEL



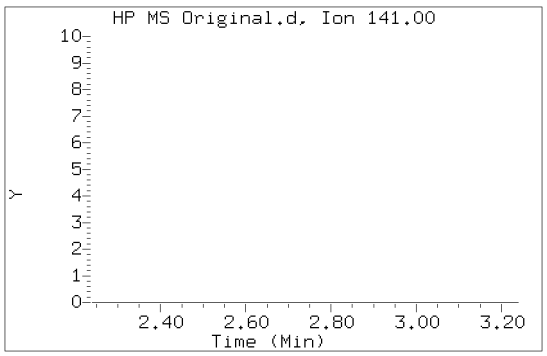
BEFORE
MASS
127
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



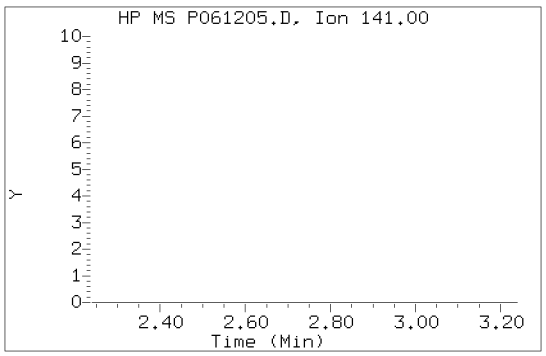
AFTER
MASS
127
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



BEFORE
MASS
141
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



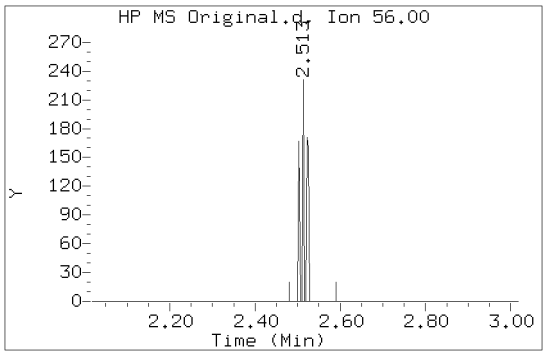
AFTER
MASS
141
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



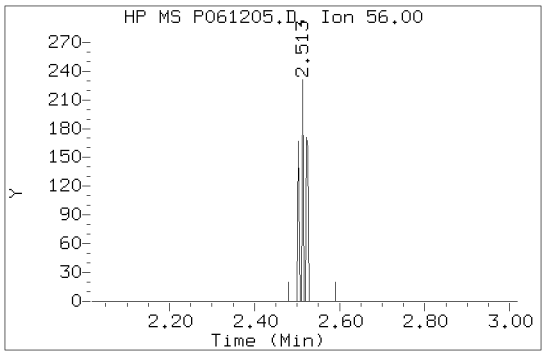
Acrolein (107-02-8)

Reason Code:

BEFORE
MASS
56
AREA
140
HEIGHT
231
22-Jun-2024
12:20
RUCHA
PATEL



AFTER
MASS
56
AREA
140
HEIGHT
231
22-Jun-2024
12:20
RUCHA
PATEL



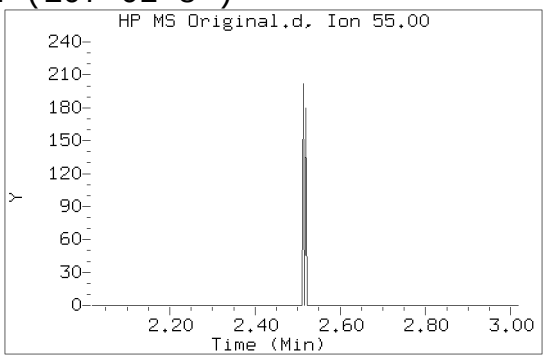
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Inj Date : 12-JUN-2024 12:28
InstruID : voa7.i
LabSampID : VSTD002

Acrolein (107-02-8)

Reason Code:

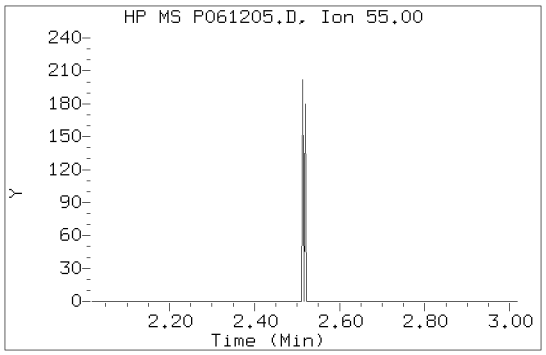
BEFORE

MASS
55
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
55
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL

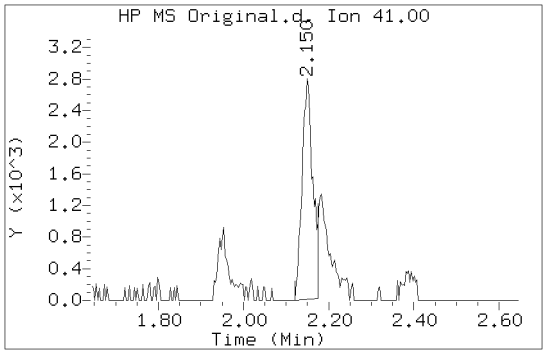


Methacrylonitrile (126-98-7)

Reason Code:

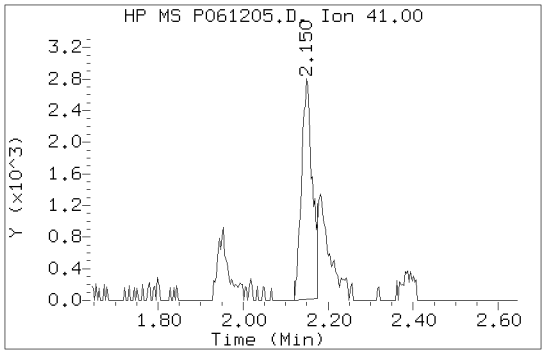
BEFORE

MASS
41
AREA
4985
HEIGHT
2789
22-Jun-2024
12:20
RUCHA
PATEL



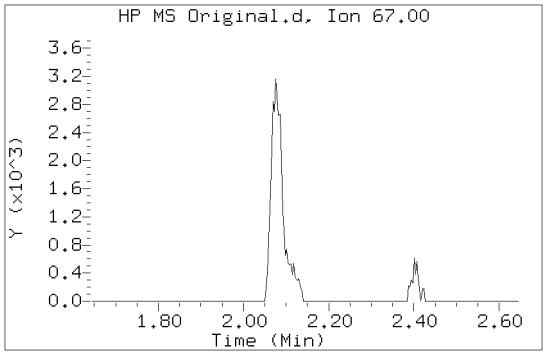
AFTER

MASS
41
AREA
4985
HEIGHT
2789
22-Jun-2024
12:20
RUCHA
PATEL



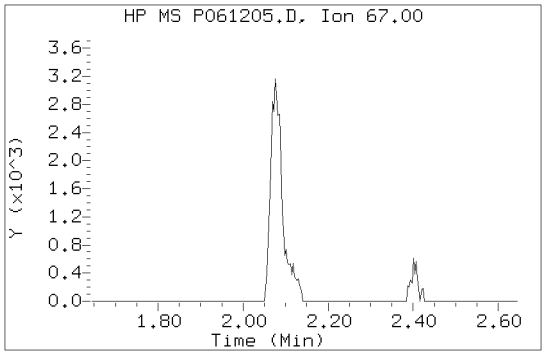
BEFORE

MASS
67
AREA
1210
HEIGHT
976
22-Jun-2024
12:20
RUCHA
PATEL



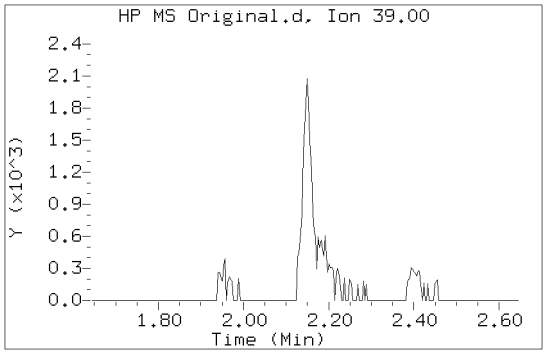
AFTER

MASS
67
AREA
1210
HEIGHT
976
22-Jun-2024
12:20
RUCHA
PATEL



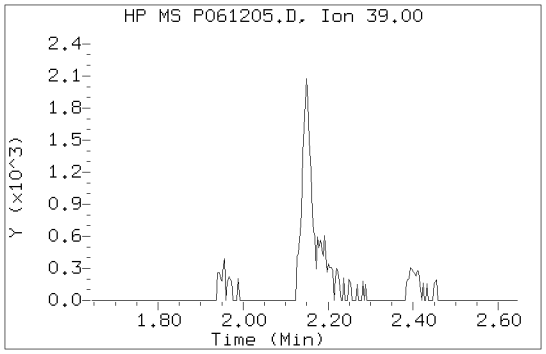
BEFORE

MASS
39
AREA
698
HEIGHT
462
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
39
AREA
698
HEIGHT
462
22-Jun-2024
12:20
RUCHA
PATEL



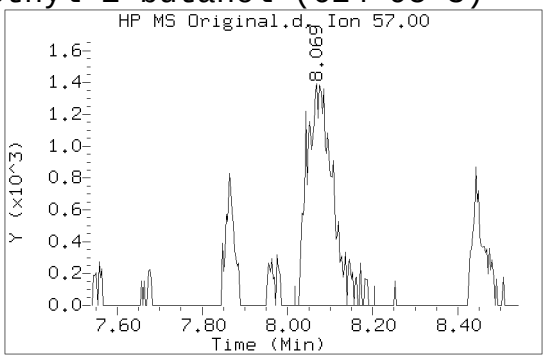
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061205.D
Inj Date : 12-JUN-2024 12:28
InstruID : voa7.i
LabSampID : VSTD002

3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

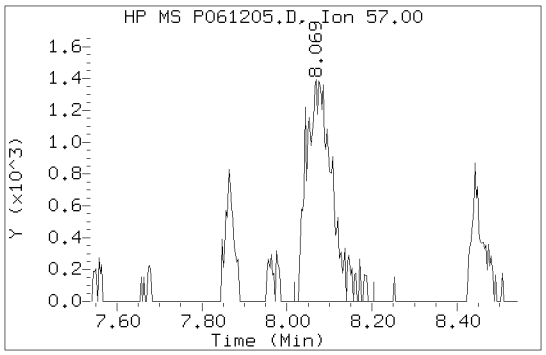
BEFORE

MASS
57
AREA
5907
HEIGHT
1393
22-Jun-2024
12:20
RUCHA
PATEL



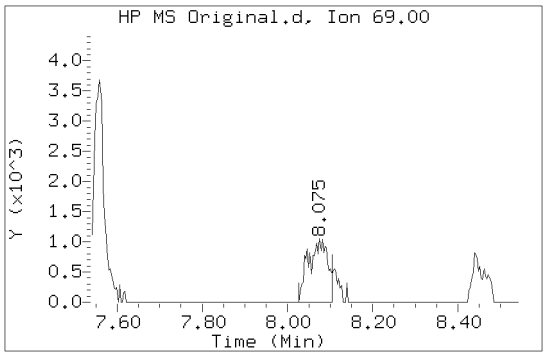
AFTER

MASS
57
AREA
5907
HEIGHT
1393
22-Jun-2024
12:20
RUCHA
PATEL



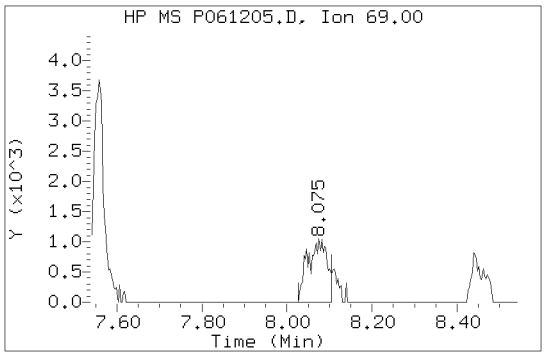
BEFORE

MASS
69
AREA
3289
HEIGHT
1052
22-Jun-2024
12:20
RUCHA
PATEL



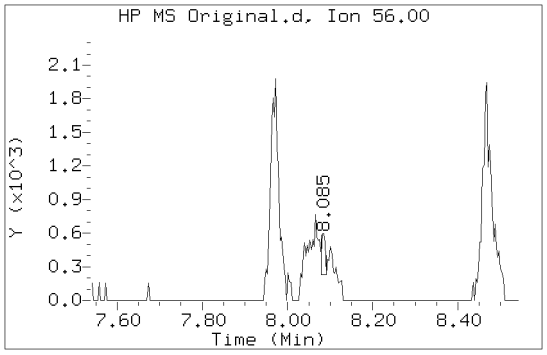
AFTER

MASS
69
AREA
3289
HEIGHT
1052
22-Jun-2024
12:20
RUCHA
PATEL



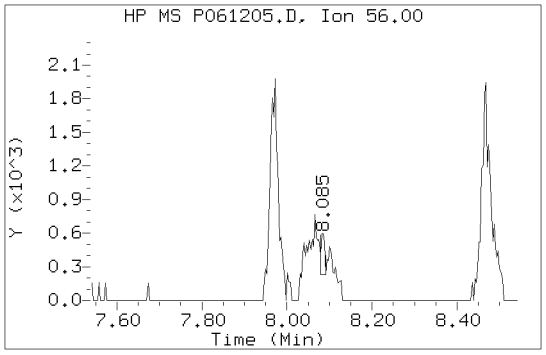
BEFORE

MASS
56
AREA
233
HEIGHT
369
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
56
AREA
233
HEIGHT
369
22-Jun-2024
12:20
RUCHA
PATEL

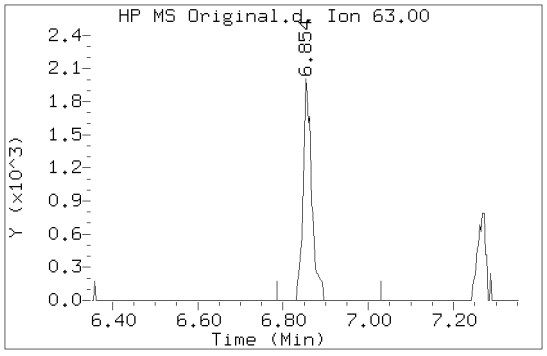


2-Chloroethylvinyl ether (110-75-8)

Reason Code:

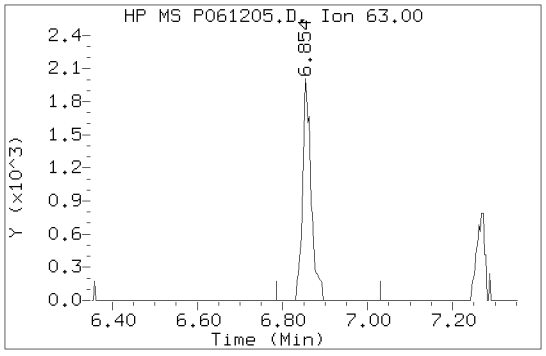
BEFORE

MASS
63
AREA
2824
HEIGHT
2008
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
63
AREA
2824
HEIGHT
2008
22-Jun-2024
12:20
RUCHA
PATEL



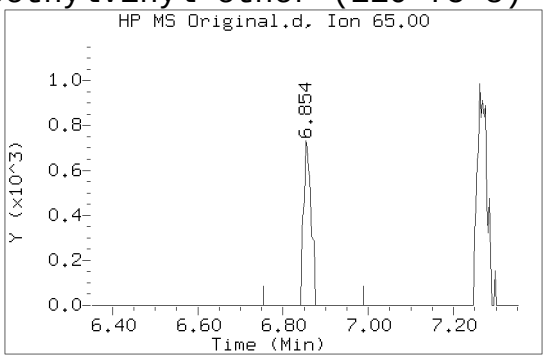
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061205.D
Inj Date : 12-JUN-2024 12:28
InstruID : voa7.i
LabSampID : VSTD002

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

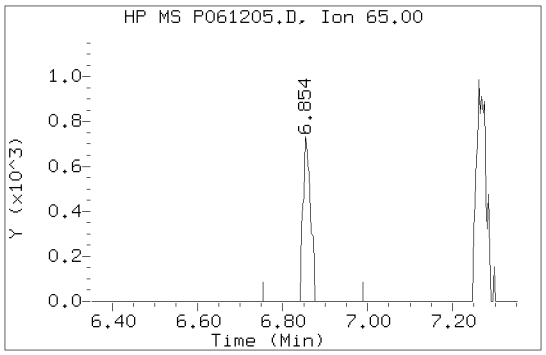
BEFORE

MASS
65
AREA
912
HEIGHT
733
22-Jun-2024
12:20
RUCHA
PATEL



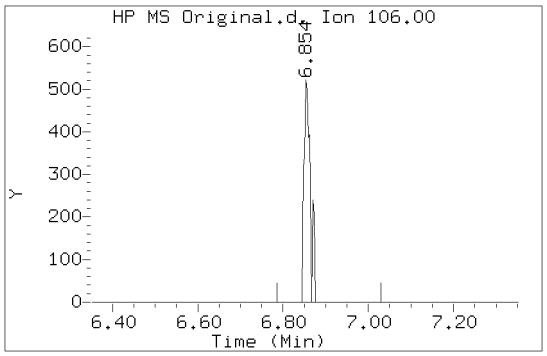
AFTER

MASS
65
AREA
912
HEIGHT
733
22-Jun-2024
12:20
RUCHA
PATEL



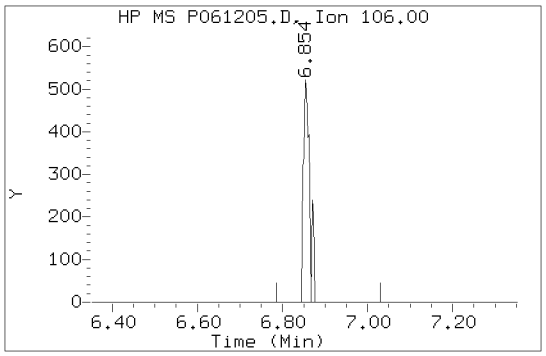
BEFORE

MASS
106
AREA
560
HEIGHT
522
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
106
AREA
560
HEIGHT
522
22-Jun-2024
12:20
RUCHA
PATEL

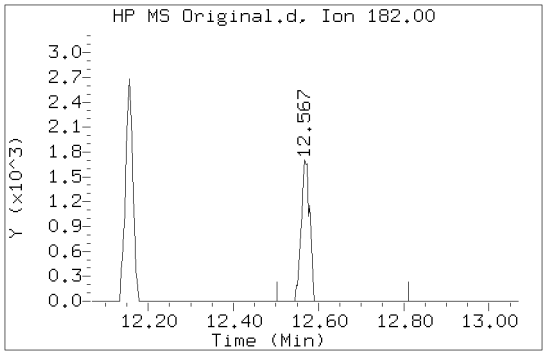


1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

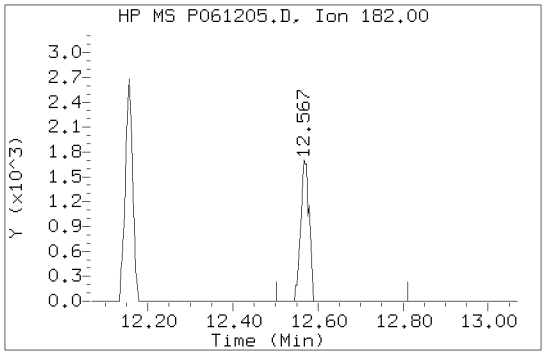
BEFORE

MASS
182
AREA
2374
HEIGHT
1710
22-Jun-2024
12:20
RUCHA
PATEL



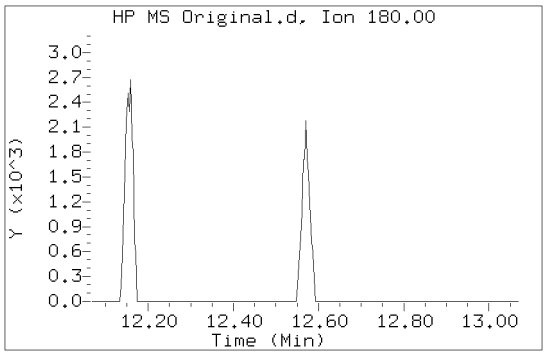
AFTER

MASS
182
AREA
2374
HEIGHT
1710
22-Jun-2024
12:20
RUCHA
PATEL



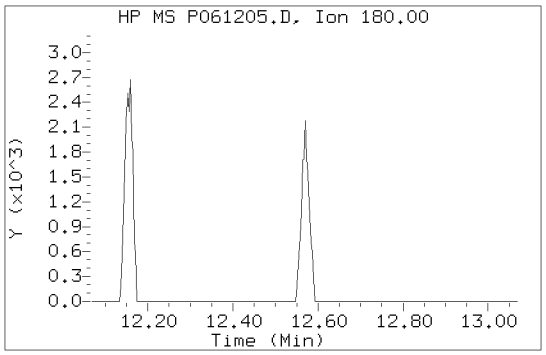
BEFORE

MASS
180
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
180
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



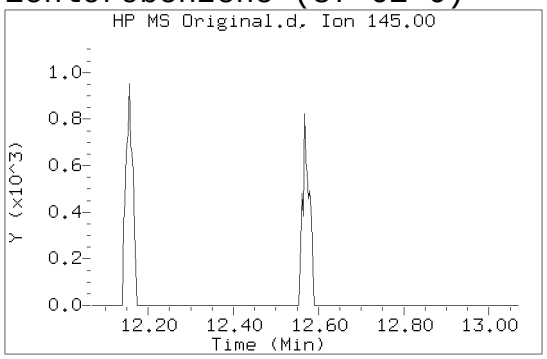
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061205.D
Inj Date : 12-JUN-2024 12:28
InstruID : voa7.i
LabSampID : VSTD002

1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

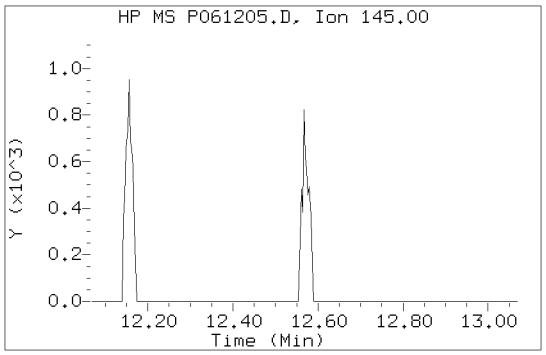
BEFORE

MASS
145
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
145
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL

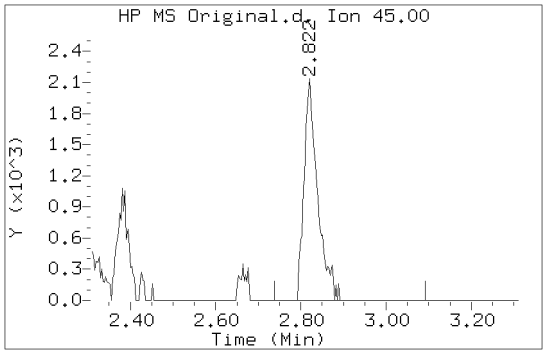


Isopropyl alcohol (67-63-0)

Reason Code:

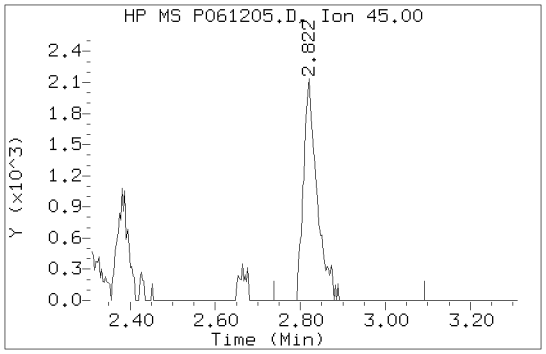
BEFORE

MASS
45
AREA
4734
HEIGHT
2136
22-Jun-2024
12:20
RUCHA
PATEL



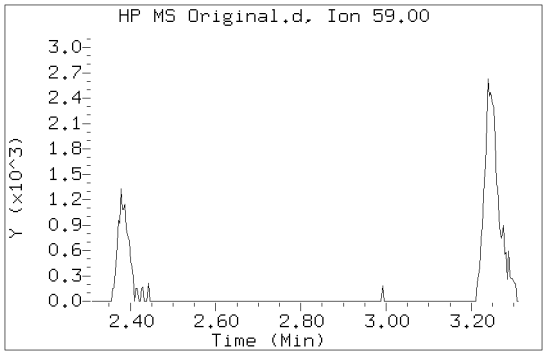
AFTER

MASS
45
AREA
4734
HEIGHT
2136
22-Jun-2024
12:20
RUCHA
PATEL



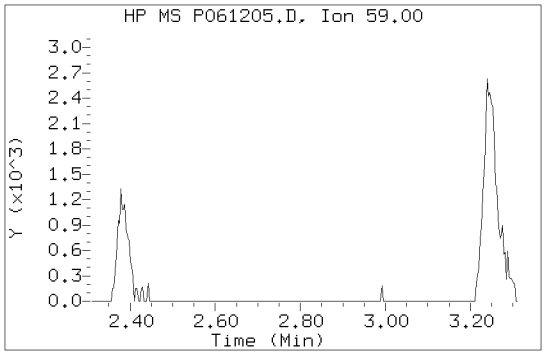
BEFORE

MASS
59
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
59
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL

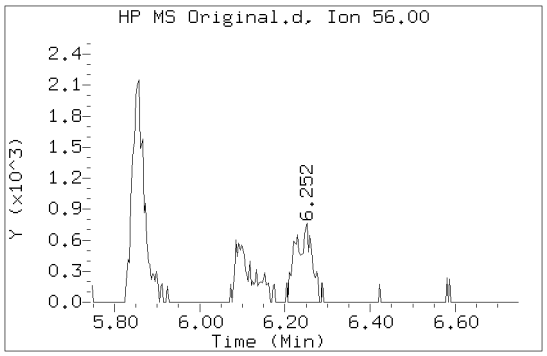


n-Butanol (71-36-3)

Reason Code:

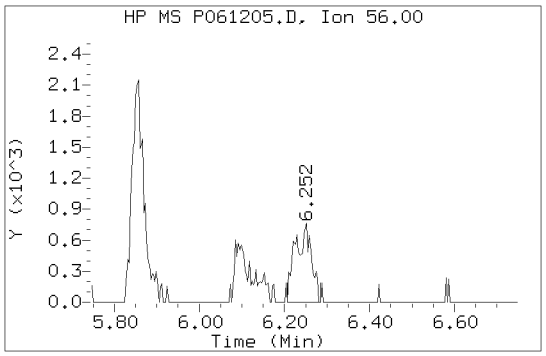
BEFORE

MASS
56
AREA
1996
HEIGHT
762
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
56
AREA
1996
HEIGHT
762
22-Jun-2024
12:20
RUCHA
PATEL

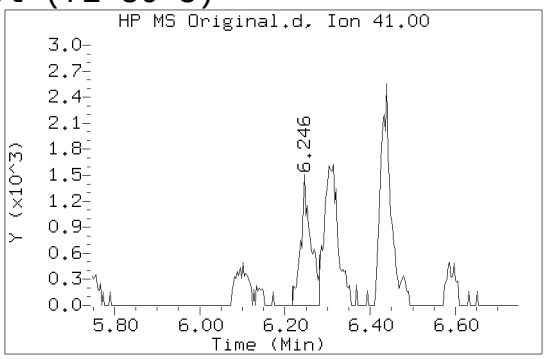


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Inj Date : 12-JUN-2024 12:28
InstruID : voa7.i
LabSampID : VSTD002

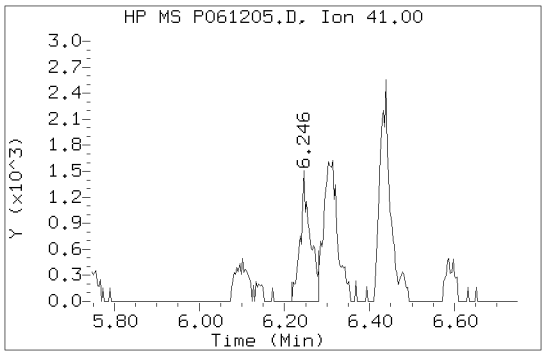
n-Butanol (71-36-3)

Reason Code:

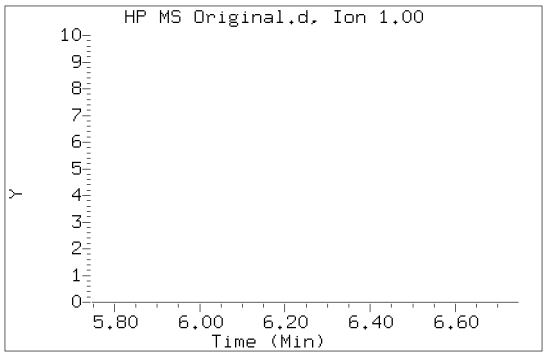
BEFORE
MASS
41
AREA
2509
HEIGHT
1506
22-Jun-2024
12:20
RUCHA
PATEL



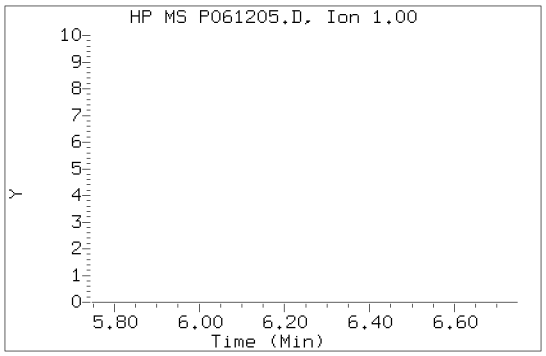
AFTER
MASS
41
AREA
2509
HEIGHT
1506
22-Jun-2024
12:20
RUCHA
PATEL



BEFORE
MASS
1
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



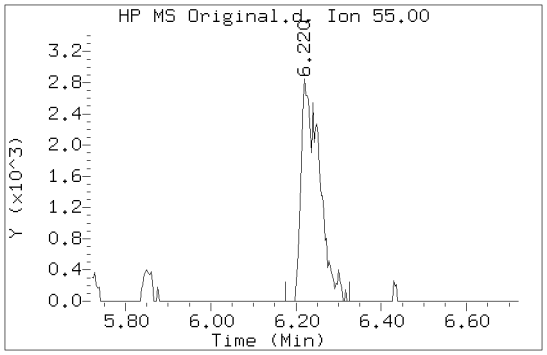
AFTER
MASS
1
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



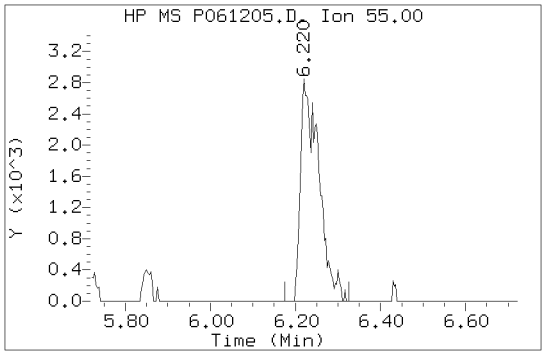
Ethyl Acrylate (140-88-5)

Reason Code:

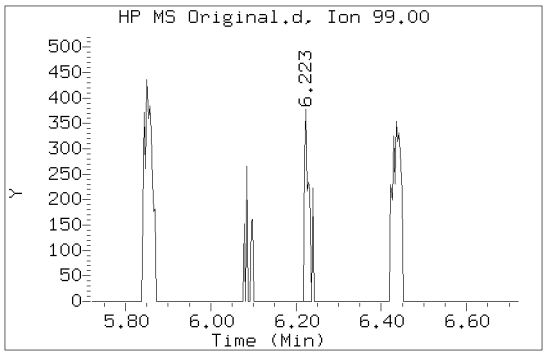
BEFORE
MASS
55
AREA
8585
HEIGHT
2848
22-Jun-2024
12:20
RUCHA
PATEL



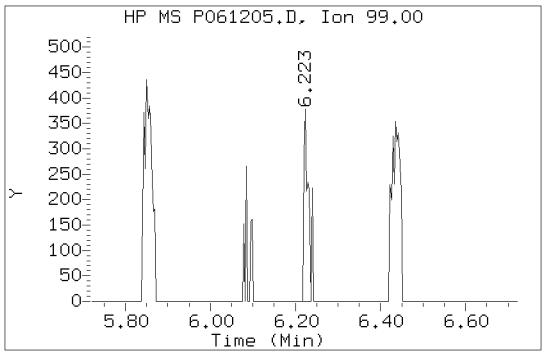
AFTER
MASS
55
AREA
8585
HEIGHT
2848
22-Jun-2024
12:20
RUCHA
PATEL



BEFORE
MASS
99
AREA
257
HEIGHT
378
22-Jun-2024
12:20
RUCHA
PATEL



AFTER
MASS
99
AREA
257
HEIGHT
378
22-Jun-2024
12:20
RUCHA
PATEL



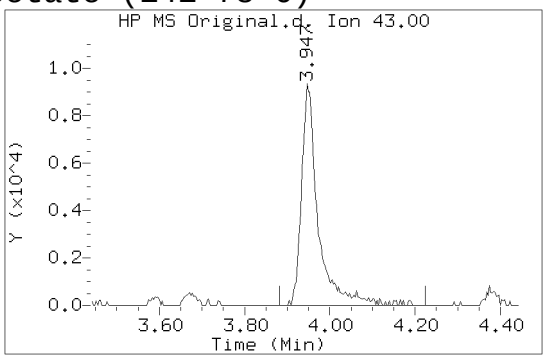
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Inj Date : 12-JUN-2024 12:28
InstruID : voa7.i
LabSampID : VSTD002

Ethyl Acetate (141-78-6)

Reason Code:

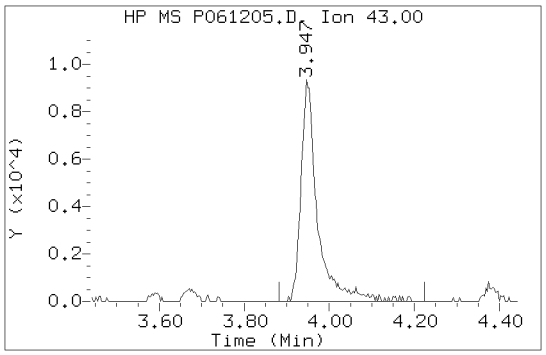
BEFORE

MASS
43
AREA
25416
HEIGHT
9353
22-Jun-2024
12:20
RUCHA
PATEL



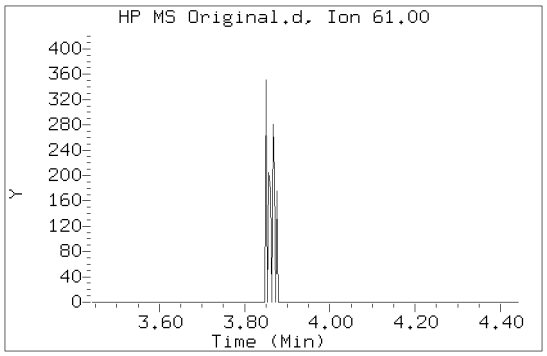
AFTER

MASS
43
AREA
25416
HEIGHT
9353
22-Jun-2024
12:20
RUCHA
PATEL



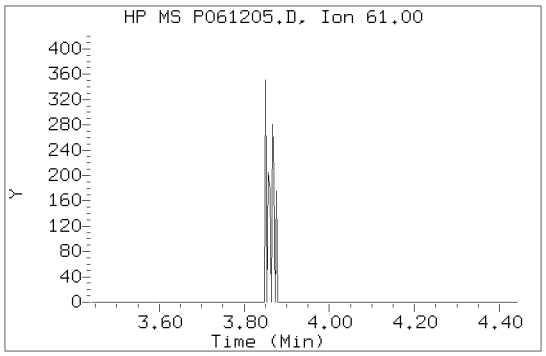
BEFORE

MASS
61
AREA
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HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



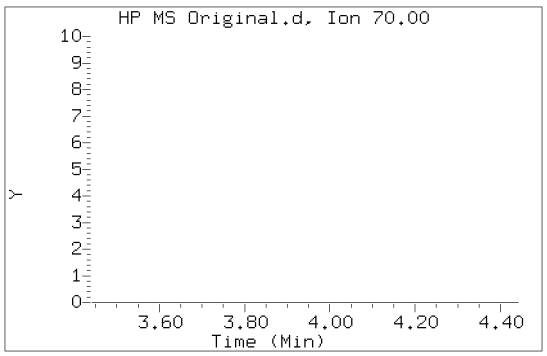
AFTER

MASS
61
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



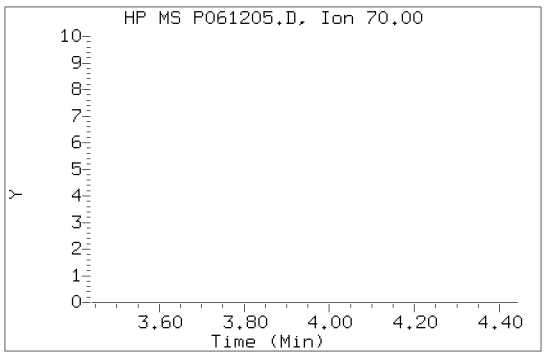
BEFORE

MASS
70
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
70
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL

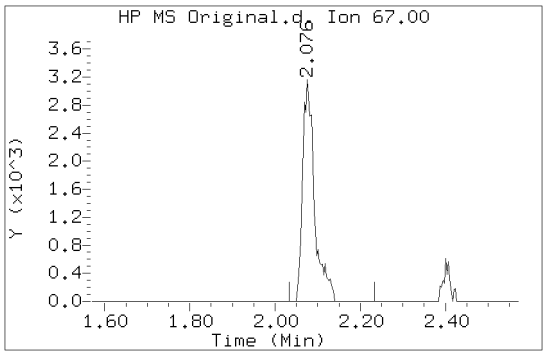


Dichlorofluoromethane (75-43-4)

Reason Code:

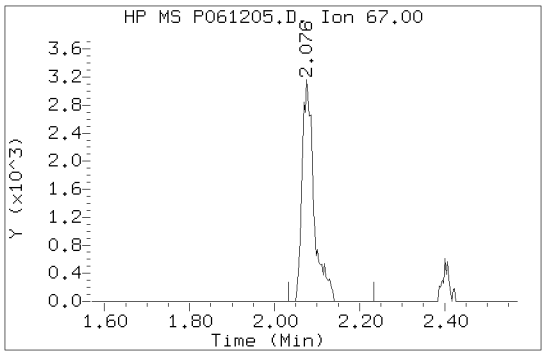
BEFORE

MASS
67
AREA
6170
HEIGHT
3163
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
67
AREA
6170
HEIGHT
3163
22-Jun-2024
12:20
RUCHA
PATEL



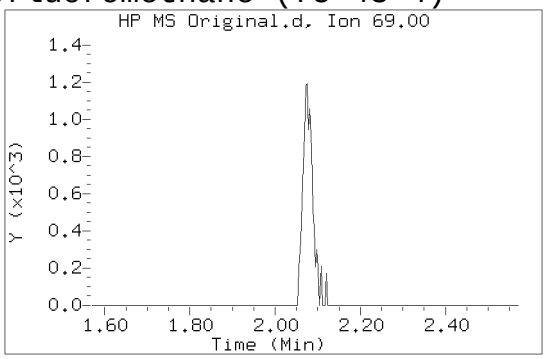
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Inj Date : 12-JUN-2024 12:28
InstruID : voa7.i
LabSampID : VSTD002

Dichlorofluoromethane (75-43-4)

Reason Code:

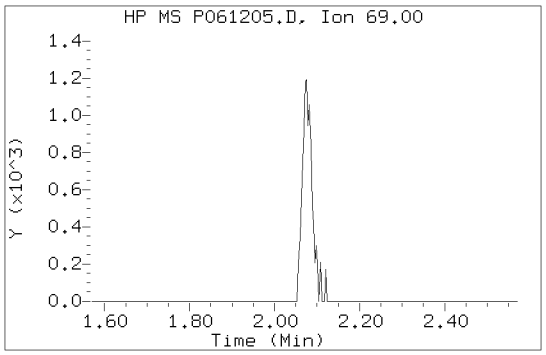
BEFORE

MASS
69
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



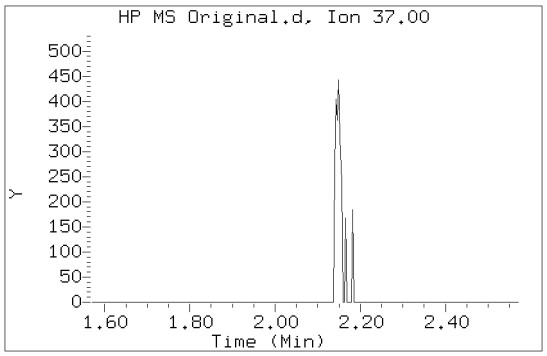
AFTER

MASS
69
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



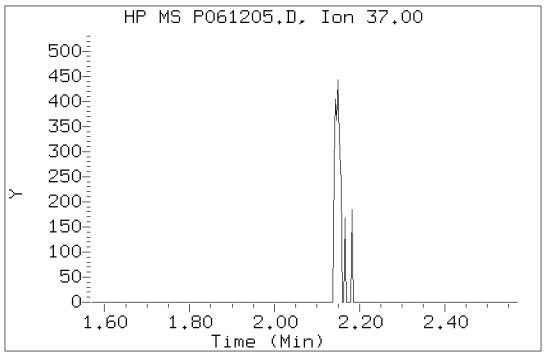
BEFORE

MASS
37
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
37
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL

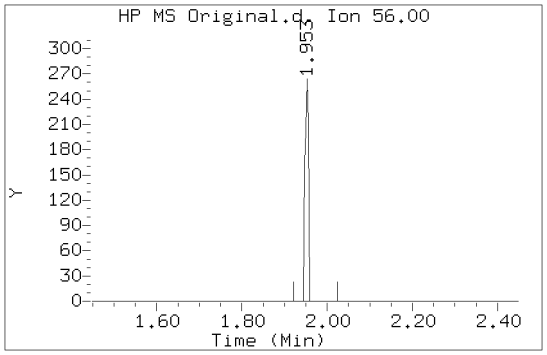


Isobutylene (115-11-7)

Reason Code:

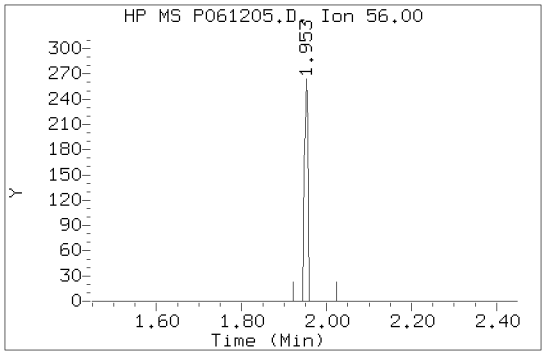
BEFORE

MASS
56
AREA
162
HEIGHT
264
22-Jun-2024
12:20
RUCHA
PATEL



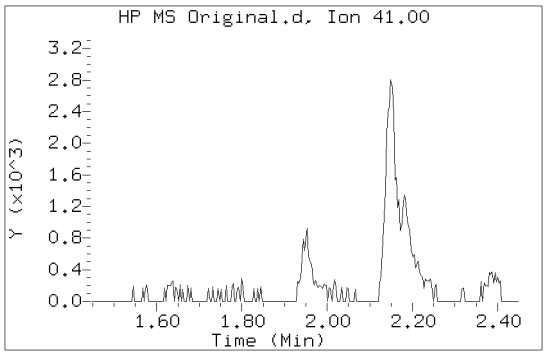
AFTER

MASS
56
AREA
162
HEIGHT
264
22-Jun-2024
12:20
RUCHA
PATEL



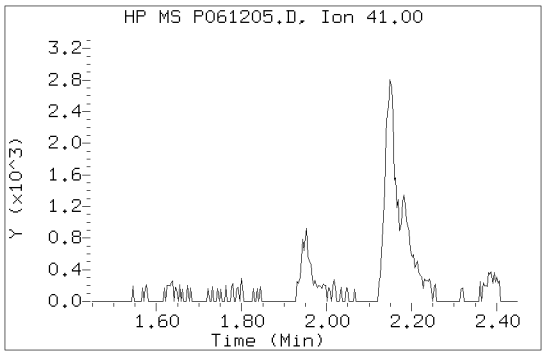
BEFORE

MASS
41
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
41
AREA
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HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



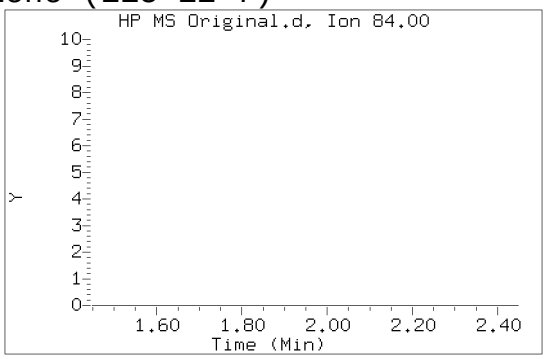
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Inj Date : 12-JUN-2024 12:28
InstruID : voa7.i
LabSampID : VSTD002

Isobutylene (115-11-7)

Reason Code:

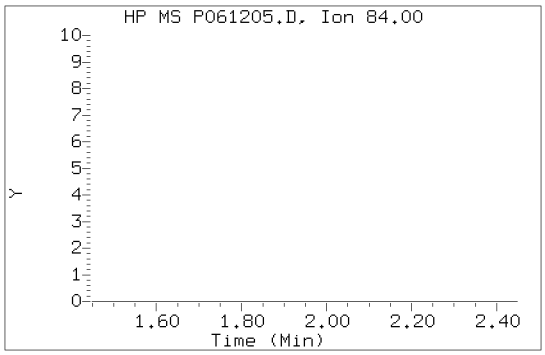
BEFORE

MASS
84
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
84
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL

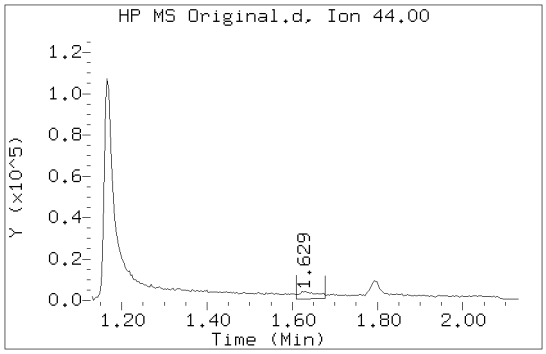


Acetaldehyde (75-07-0)

Reason Code:

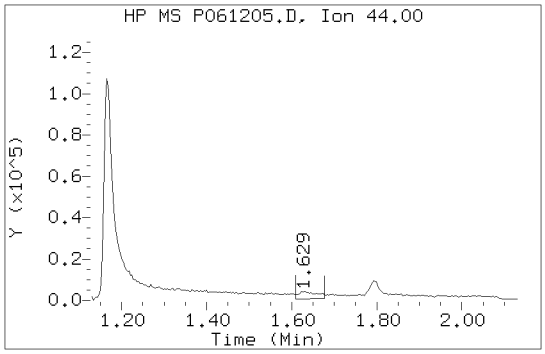
BEFORE

MASS
44
AREA
11092
HEIGHT
3669
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
44
AREA
11092
HEIGHT
3669
22-Jun-2024
12:20
RUCHA
PATEL



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061206.D Page 1
Report Date: 22-Jun-2024 12:21

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061206.D
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Inj Date : 12-JUN-2024 12:51
Operator : AP Inst ID: voa7.i
Smp Info : VSTD005
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240612.b\8260W.m
Meth Date : 22-Jun-2024 12:21 voa7.i Quant Type: ISTD
Cal Date : 12-JUN-2024 12:28 Cal File: P061205.D
Als bottle: 9 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	5.130	5.130	(1.000)	119979	50.0000	
2 Dichlorodifluoromethane	85	1.294	1.294	(0.252)	5732	5.00000	4.45
159 Dichlorofluoromethane	67	2.075	2.075	(0.405)	11781	5.00000	4.75
3 Chloromethane	50	1.451	1.451	(0.283)	9757	5.00000	4.52(a)
4 Propionitrile	54	4.670	4.670	(0.910)	7847	50.0000	44.61
5 Vinyl Chloride	62	1.535	1.535	(0.299)	8287	5.00000	4.88
6 Bromomethane	94	1.808	1.808	(0.353)	6316	5.00000	4.97
7 Chloroethane	64	1.902	1.902	(0.371)	5207	5.00000	4.84
8 Trichlorofluoromethane	101	2.107	2.107	(0.411)	10035	5.00000	4.81
9 Acrolein	56	2.532	2.532	(0.494)	294	10.0000	10.06(M)
10 Acetone	43	2.664	2.664	(0.519)	5792	10.0000	8.76(M)
11 1,1-Dichloroethene	96	2.593	2.593	(0.506)	5121	5.00000	4.42(M)
12 Isobutyl Alcohol	43	5.577	5.577	(1.087)	20180	100.000	92.20
13 Acetonitrile	39	2.956	2.956	(0.576)	8747	50.0000	49.53
14 Allyl Chloride	41	2.963	2.963	(0.578)	18967	5.00000	4.90
15 Iodomethane	142	2.744	2.744	(0.535)	3777	10.0000	9.25
16 Acrylonitrile	53	3.381	3.381	(0.659)	3922	10.0000	9.32
17 Methylene Chloride	84	3.094	3.094	(0.603)	8581	5.00000	5.08
18 Methyl tert-butyl ether	73	3.384	3.384	(0.660)	14360	5.00000	5.37
19 Carbon Disulfide	76	2.792	2.792	(0.544)	35818	10.0000	9.82

20 trans-1,2-Dichloroethene	96	3.377	3.377 (0.658)	5819	5.00000	4.53
21 Vinyl Acetate	43	4.663	4.663 (0.909)	8177	10.0000	10.68(M)

			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
	22	1,1-Dichloroethane	63	3.863	3.863	(0.753)	12786	5.00000	4.83
	23	Chloroprene	53	3.963	3.963	(0.772)	9947	5.00000	4.41(a)
	24	2-Butanone	43	4.593	4.593	(0.895)	7043	10.0000	10.47
	25	Methacrylonitrile	41	2.149	2.149	(0.419)	9929	5.00000	6.08(M)
	26	2,2-Dichloropropane	77	4.528	4.528	(0.883)	9923	5.00000	4.86
	27	cis-1,2-Dichloroethene	96	4.541	4.541	(0.885)	7198	5.00000	5.06
	28	Chloroform	83	4.905	4.905	(0.956)	12716	5.00000	4.73
	29	Bromochloromethane	128	4.805	4.805	(0.937)	3309	5.00000	4.31
$	30	Dibromofluoromethane	113	5.069	5.069	(0.988)	6860	5.00000	4.94
	31	1,1,1-Trichloroethane	97	5.072	5.072	(0.989)	9862	5.00000	4.81(M)
	32	1,1-Dichloropropene	75	5.245	5.245	(0.896)	8873	5.00000	4.78
	33	1,2-Dichloroethane	62	5.493	5.493	(0.938)	10763	5.00000	4.64
	34	Carbon Tetrachloride	117	5.233	5.233	(0.894)	8745	5.00000	4.97
$	35	1,2-Dichloroethane-d4	65	5.416	5.416	(1.056)	9601	5.00000	4.98
*	36	1,4-Difluorobenzene	114	5.853	5.853	(1.000)	197145	50.0000	
	37	Benzene	78	5.461	5.461	(0.933)	26743	5.00000	4.84
	38	Trichloroethene	130	6.091	6.091	(1.041)	6363	5.00000	4.63
	39	Bromodichloromethane	83	6.570	6.570	(1.122)	9709	5.00000	4.92
	40	Methyl Methacrylate	41	6.432	6.432	(1.254)	6961	5.00000	4.46
	41	2-Chloroethylvinyl ether	63	6.856	6.856	(1.171)	4830	10.0000	8.82(M)
	42	1,2-Dichloropropane	63	6.313	6.313	(1.079)	7516	5.00000	4.83
	43	2-Nitropropane	43	6.805	6.805	(1.327)	2164	5.00000	5.69
	44	Dibromomethane	93	6.419	6.419	(1.097)	4269	5.00000	4.84
	45	4-Methyl-2-Pentanone	43	7.130	7.130	(0.842)	14553	10.0000	8.78
	46	cis-1,3-Dichloropropene	75	6.978	6.978	(1.192)	10102	5.00000	5.25
*	47	Chlorobenzene-d5	117	8.467	8.467	(1.000)	183412	50.0000	
$	48	Toluene-d8	98	7.207	7.207	(0.851)	25676	5.00000	4.45
	49	Ethyl Methacrylate	69	8.081	8.081	(1.381)	6472	5.00000	5.42
	50	Toluene	91	7.261	7.261	(0.858)	27240	5.00000	4.30
	51	trans-1,3-Dichloropropene	75	6.978	6.978	(1.192)	10102	5.00000	5.25
	52	2-Hexanone	43	7.863	7.863	(0.929)	10165	10.0000	9.11
	53	1,1,2-Trichloroethane	83	7.641	7.641	(0.902)	5269	5.00000	4.02
	54	1,3-Dichloropropane	76	7.782	7.782	(0.919)	11372	5.00000	4.31
	55	Dibromochloromethane	129	7.978	7.978	(0.942)	6657	5.00000	4.39
	56	Tetrachloroethene	164	7.734	7.734	(0.913)	4775	5.00000	4.20
	57	1,2-Dibromoethane	107	8.075	8.075	(0.954)	5796	5.00000	4.93
	58	1-Chlorohexane	55	8.470	8.470	(1.447)	7631	5.00000	4.19
	59	Chlorobenzene	112	8.493	8.493	(1.003)	18614	5.00000	4.59
	60	1,1,1,2-Tetrachloroethane	131	8.567	8.567	(1.012)	6203	5.00000	4.69
	61	Ethylbenzene	106	8.583	8.583	(1.014)	8642	5.00000	4.32
	62	m,p-Xylenes	106	8.683	8.683	(1.025)	22915	10.0000	8.96
	63	o-Xylene	106	9.023	9.023	(1.066)	11500	5.00000	4.61
	64	Styrene	104	9.039	9.039	(1.068)	18457	5.00000	4.65
	66	Bromoform	173	9.207	9.207	(1.087)	4305	5.00000	4.83
	67	Isopropylbenzene	105	9.339	9.339	(1.103)	26698	5.00000	4.30
	68	1,1,2,2-Tetrachloroethane	83	9.609	9.609	(0.919)	8324	5.00000	4.24
$	69	4-Bromofluorobenzene	95	9.474	9.474	(1.119)	11003	5.00000	4.25
*	70	1,4-Dichlorobenzene-d4	152	10.457	10.457	(1.000)	84374	50.0000	
	71	1,2,3-Trichloropropane	75	9.650	9.650	(0.923)	9154	5.00000	4.31
	72	trans-1,4-Dichloro-2-butene	53	9.654	9.654	(1.140)	1825	5.00000	4.98
	73	n-Propylbenzene	91	9.689	9.689	(0.927)	31484	5.00000	4.21
	74	Bromobenzene	156	9.602	9.602	(0.918)	7622	5.00000	4.34

75	1,3,5-Trimethylbenzene	105	9.837	9.837 (0.941)	21967	5.00000	4.43
76	2-Chlorotoluene	91	9.766	9.766 (0.934)	20862	5.00000	4.33

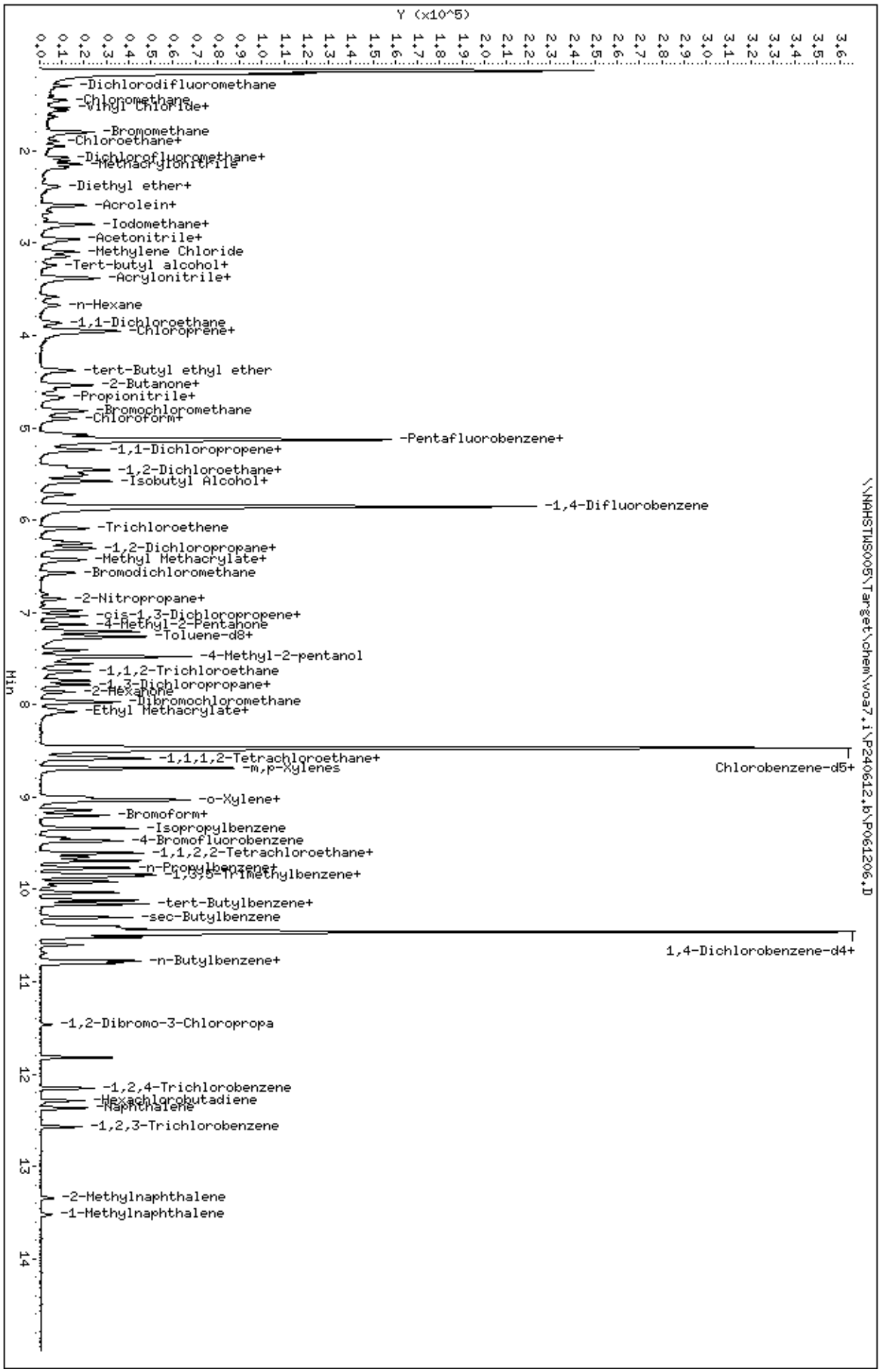
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Report Date: 22-Jun-2024 12:21

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
77	4-Chlorotoluene	91	9.859	9.859	(0.943)	24474	5.00000	4.37
78	tert-Butylbenzene	119	10.120	10.120	(0.968)	18573	5.00000	4.09
79	1,2,4-Trimethylbenzene	105	10.155	10.155	(0.971)	23050	5.00000	4.40
81	sec-Butylbenzene	105	10.300	10.300	(0.985)	25390	5.00000	4.17
82	p-Isopropyltoluene	119	10.425	10.425	(0.997)	21415	5.00000	4.45
83	1,3-Dichlorobenzene	146	10.400	10.400	(0.994)	12753	5.00000	4.32
84	1,4-Dichlorobenzene	146	10.477	10.477	(1.002)	13852	5.00000	4.49
87	n-Butylbenzene	91	10.773	10.773	(1.030)	19907	5.00000	4.56
88	1,2-Dichlorobenzene	146	10.798	10.798	(1.033)	12779	5.00000	4.45
89	1,2-Dibromo-3-Chloropropane	75	11.464	11.464	(1.096)	1252	5.00000	5.00
90	1,2,4-Trichlorobenzene	180	12.158	12.158	(1.163)	6547	5.00000	4.47
91	Hexachlorobutadiene	225	12.287	12.287	(1.175)	3227	5.00000	4.70
92	Naphthalene	128	12.367	12.367	(1.183)	14800	5.00000	4.46
93	1,2,3-Trichlorobenzene	182	12.570	12.570	(1.202)	5273	5.00000	4.71(M)
146	Methyl acetate	43	2.995	2.995	(0.584)	5072	5.00000	4.62(a)
138	Freon TF	101	2.586	2.586	(0.504)	4806	5.00000	4.46(M)
139	Diethyl ether	59	2.381	2.381	(0.464)	3375	5.00000	4.48
140	1,3-Butadiene	54	1.564	1.564	(0.305)	2741	5.00000	4.46(a)
141	Cyclohexane	56	5.107	5.107	(0.996)	10009	5.00000	4.79
147	Methylcyclohexane	83	6.249	6.249	(1.068)	8440	5.00000	5.30
132	n-Butanol	56	6.255	6.255	(1.219)	4168	100.000	104.02(TM)
131	Methyl Acrylate	55	4.692	4.692	(0.915)	6677	5.00000	4.59
133	Ethyl Acrylate	55	6.226	6.226	(1.214)	16137	5.00000	4.74
136	n-Hexane	57	3.680	3.680	(0.717)	4913	5.00000	4.54
142	Tetrahydrofuran	42	4.866	4.866	(0.949)	1795	10.0000	9.05
148	Tert-butyl alcohol	59	3.242	3.242	(0.632)	9734	100.000	87.81
149	Isopropyl alcohol	45	2.818	2.818	(0.549)	8371	100.000	107.93(M)
151	4-Methyl-2-pentanol	45	7.480	7.480	(0.883)	44355	100.000	123.33
166	1,2,3-Trimethylbenzene	105	10.519	10.519	(1.006)	21630	5.00000	4.37
167	Ethanol	45	2.307	2.307	(0.450)	1664	100.000	73.96
172	tert-Butyl formate	59	3.242	3.242	(0.632)	9734	10.0000	8.67
173	3,3-Dimethyl-1-butanol	57	8.075	8.075	(0.954)	8986	100.000	97.45
174	tert-Amyl methyl ether	73	5.577	5.577	(1.087)	17818	5.00000	4.68
175	tert-Butyl ethyl ether	59	4.374	4.374	(0.853)	17239	5.00000	4.53
157	2-Methylnaphthalene	142	13.345	13.345	(1.276)	3232	5.00000	5.47
156	Diisopropyl ether	45	3.950	3.950	(0.770)	19071	5.00000	4.61(T)
171	1-Methylnaphthalene	142	13.528	13.528	(1.294)	3073	5.00000	5.53
130	Ethyl Acetate	43	3.950	3.950	(0.770)	39063	5.00000	5.29(T)
176	tert-Amyl alcohol	59	5.512	5.512	(1.075)	11946	100.000	113.25(AM)
160	Epichlorohydrin	57	6.914	6.914	(1.181)	1450	20.0000	19.54
161	Butyl acrylate	55	8.998	8.998	(1.063)	13964	5.00000	4.95(a)
182	Isobutylene	56	1.953	1.953	(0.381)	831	5.00000	4.74(aAM)
183	Isopropyl Acetate	43	5.577	5.577	(0.953)	20180	5.00000	4.45(aA)
184	n-Amyl acetate	43	9.194	9.194	(1.086)	13889	5.00000	5.67(A)
185	Acetaldehyde	44	1.628	1.628	(0.317)	18333	20.0000	29.51(AM)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.



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Client ID: VSTD005
Sample Info: VSTD005
Purge Volume: 5.0
Column phase: DB624

Instrument: voa7.i
Operator: AP
Column diameter: 0.18

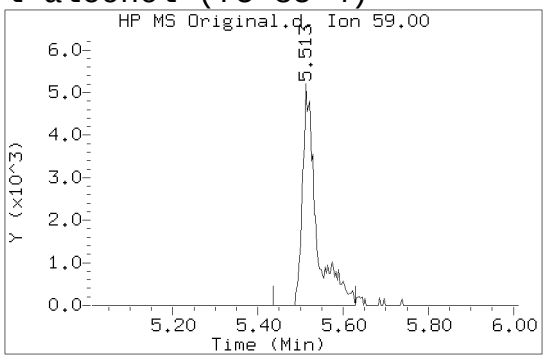
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LabSampID : VSTD005

tert-Amyl alcohol (75-85-4)

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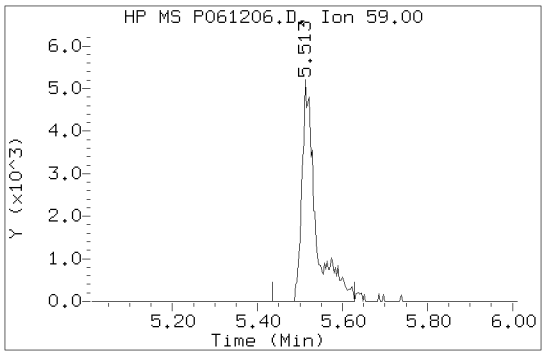
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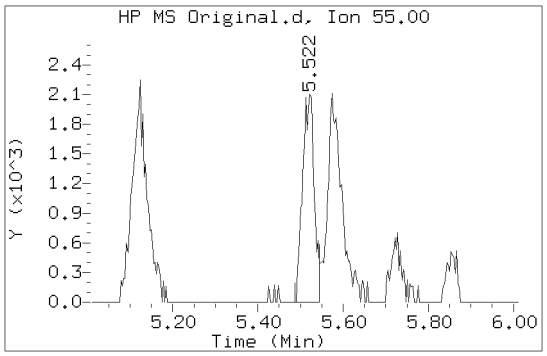
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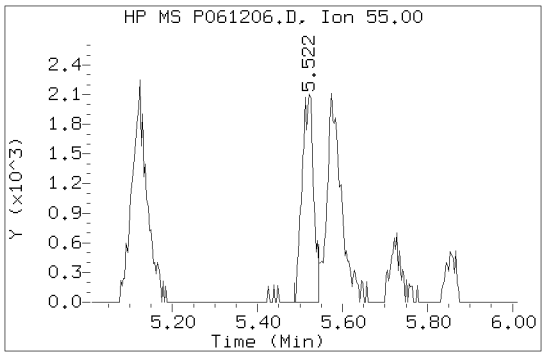
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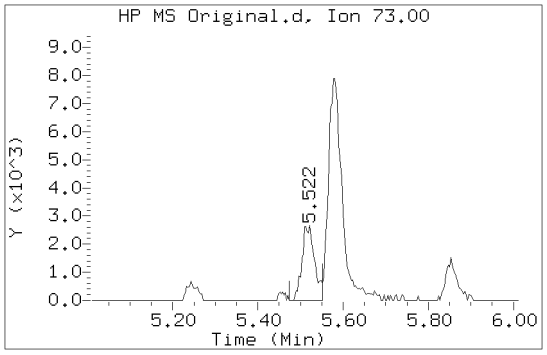
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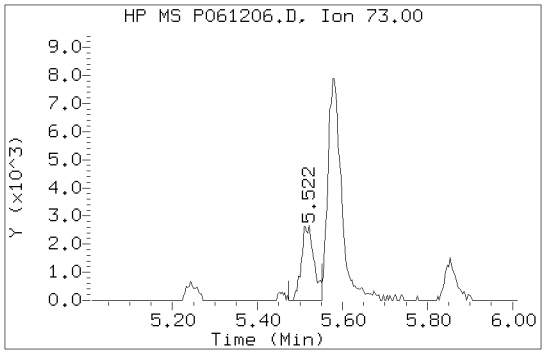
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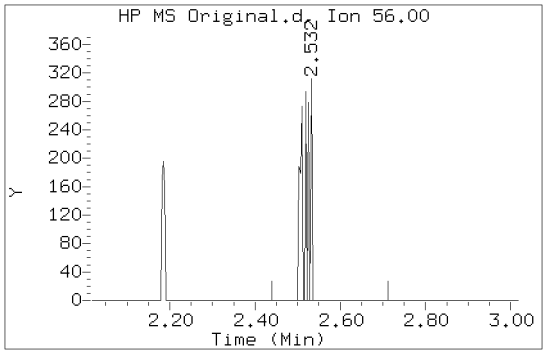


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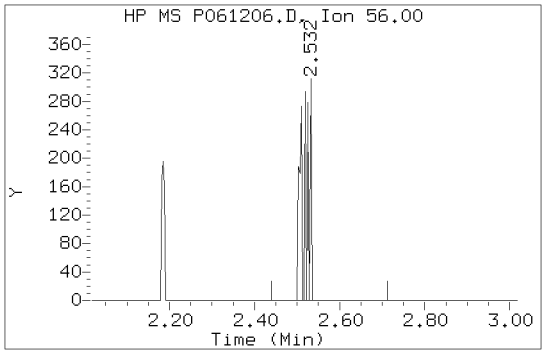
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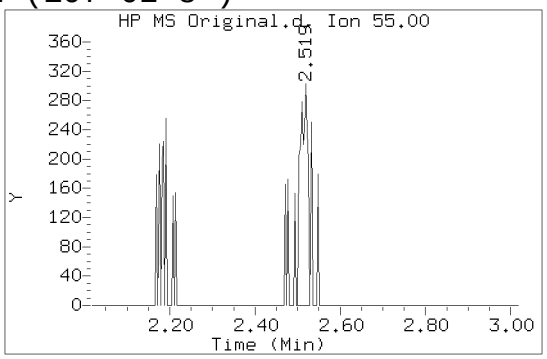
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Acrolein (107-02-8)

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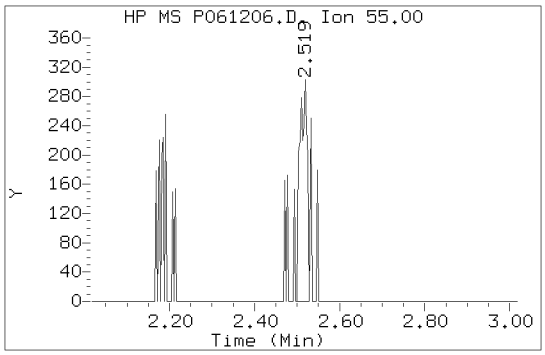
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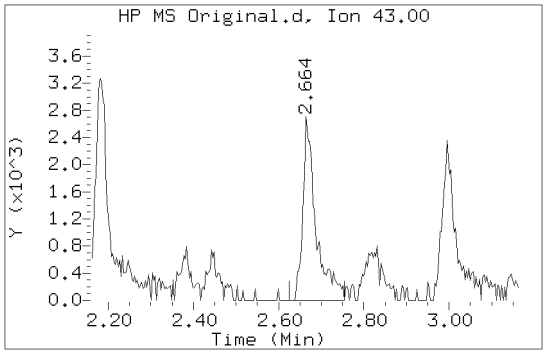


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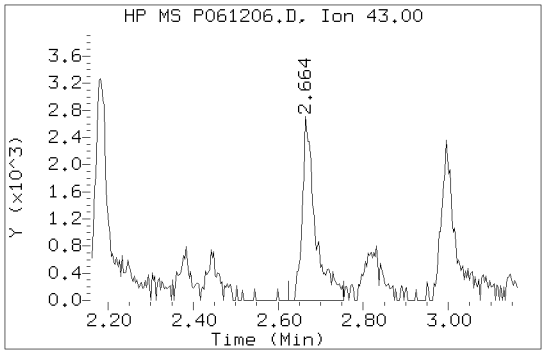
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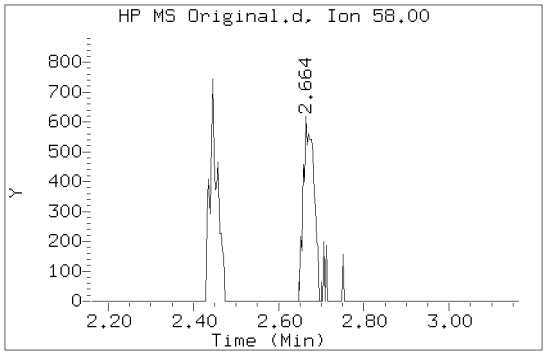
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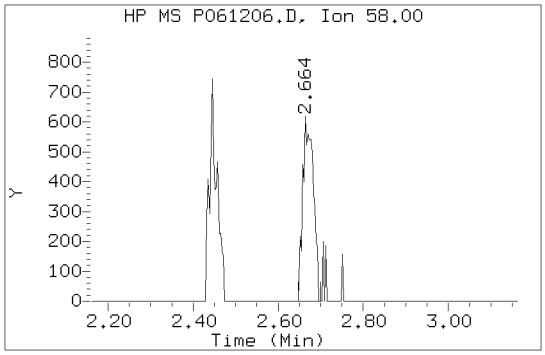
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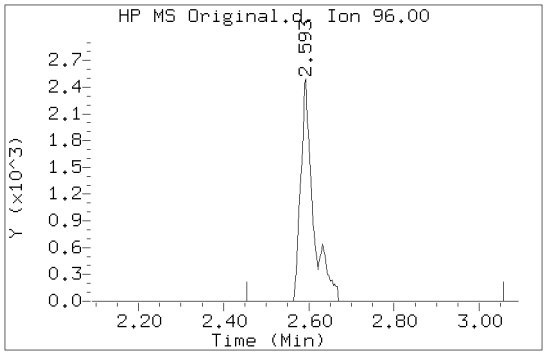


1,1-Dichloroethene (75-35-4)

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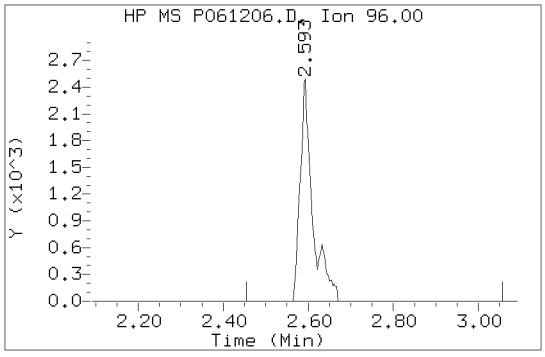
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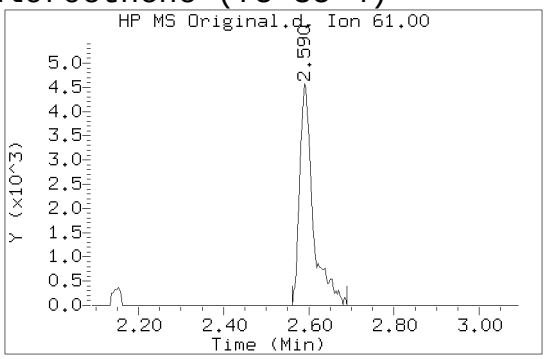
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LabSampID : VSTD005

1,1-Dichloroethene (75-35-4)

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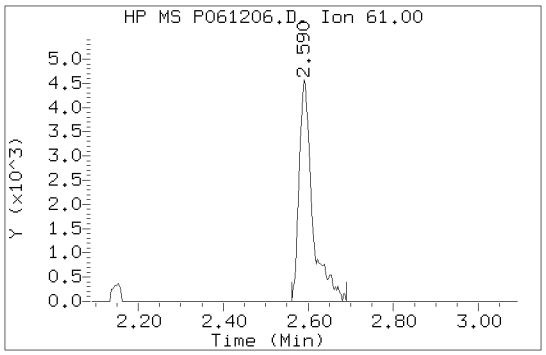
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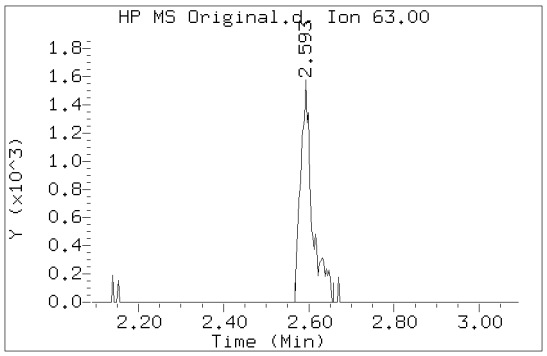
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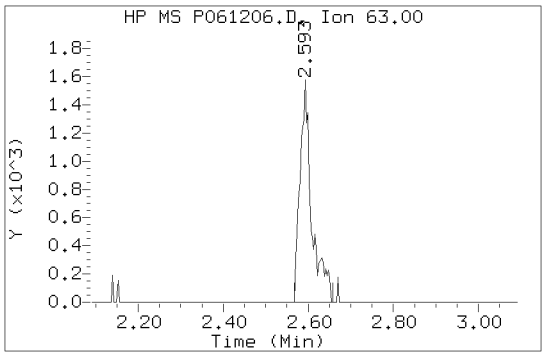
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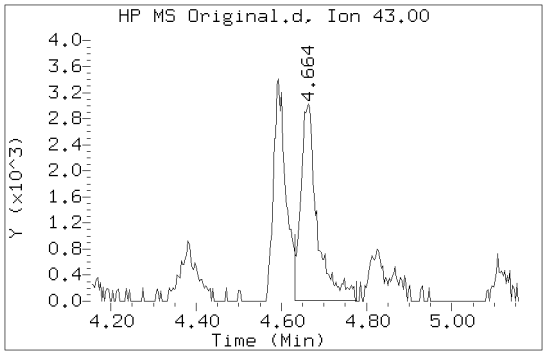


Vinyl Acetate (108-05-4)

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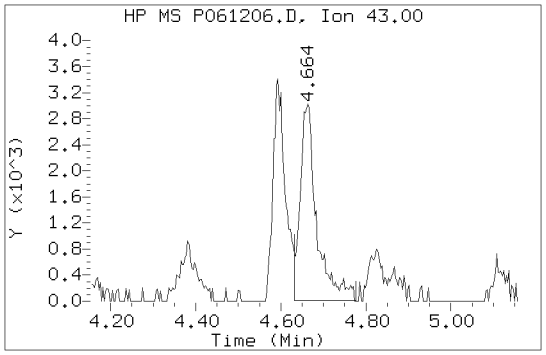
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RUCHA
PATEL



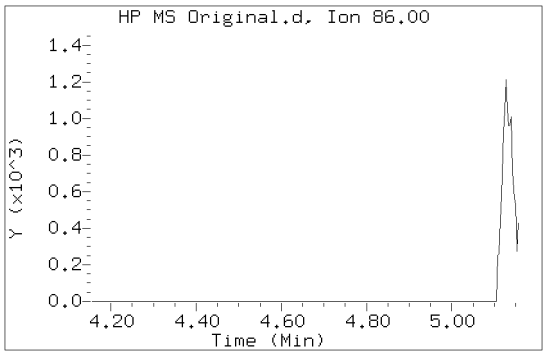
AFTER

MASS
43
AREA
8177
HEIGHT
3015
22-Jun-2024
12:20
RUCHA
PATEL



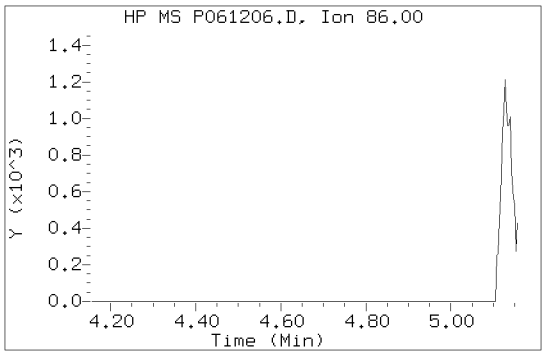
BEFORE

MASS
86
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
86
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



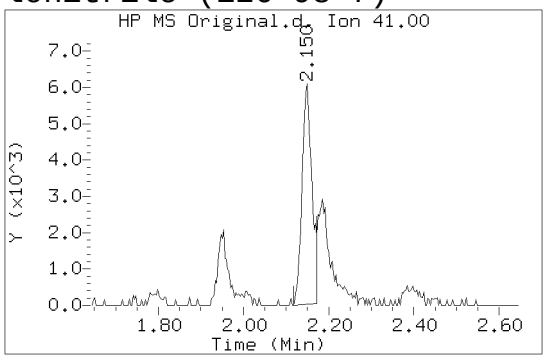
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061206.D
Inj Date : 12-JUN-2024 12:51
InstruID : voa7.i
LabSampID : VSTD005

Methacrylonitrile (126-98-7)

Reason Code:

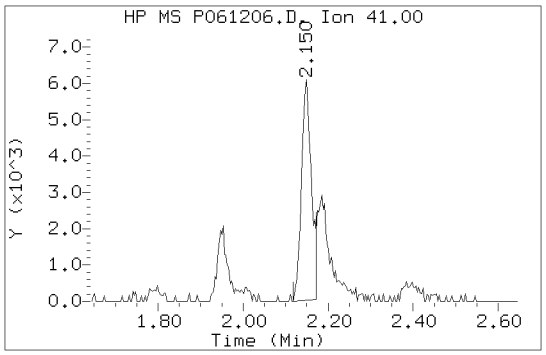
BEFORE

MASS
41
AREA
9929
HEIGHT
6069
22-Jun-2024
12:20
RUCHA
PATEL



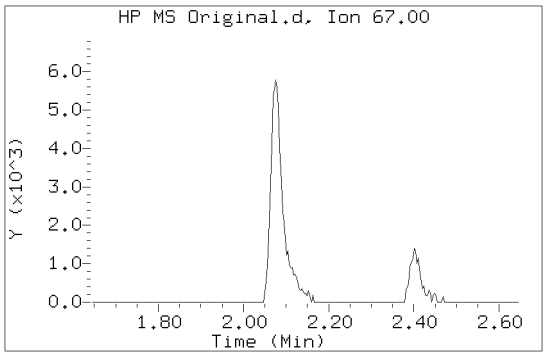
AFTER

MASS
41
AREA
9929
HEIGHT
6069
22-Jun-2024
12:20
RUCHA
PATEL



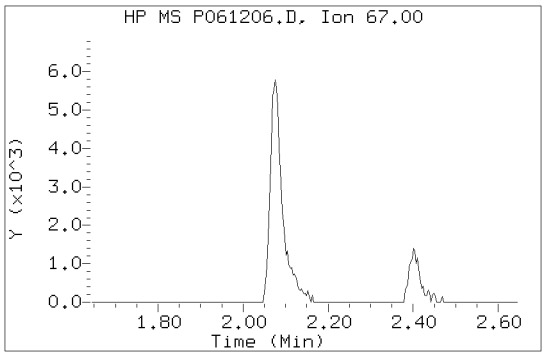
BEFORE

MASS
67
AREA
2166
HEIGHT
1338
22-Jun-2024
12:20
RUCHA
PATEL



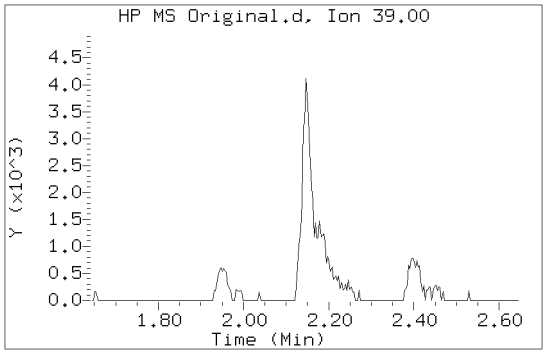
AFTER

MASS
67
AREA
2166
HEIGHT
1338
22-Jun-2024
12:20
RUCHA
PATEL



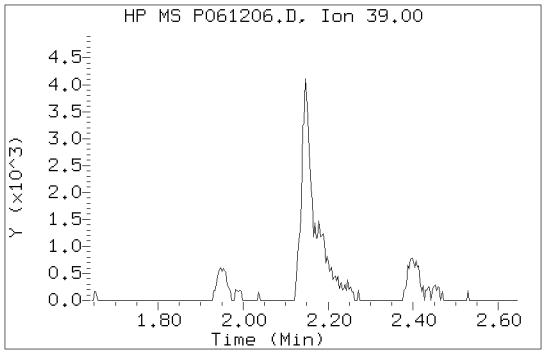
BEFORE

MASS
39
AREA
1270
HEIGHT
620
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
39
AREA
1270
HEIGHT
620
22-Jun-2024
12:20
RUCHA
PATEL

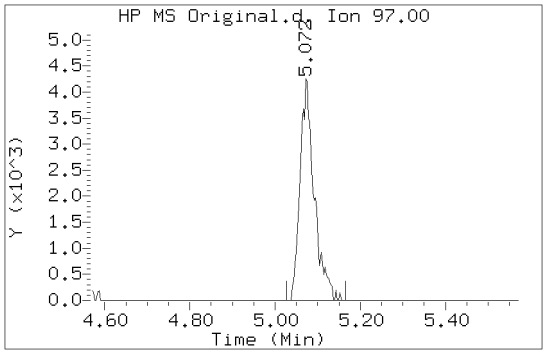


1,1,1-Trichloroethane (71-55-6)

Reason Code:

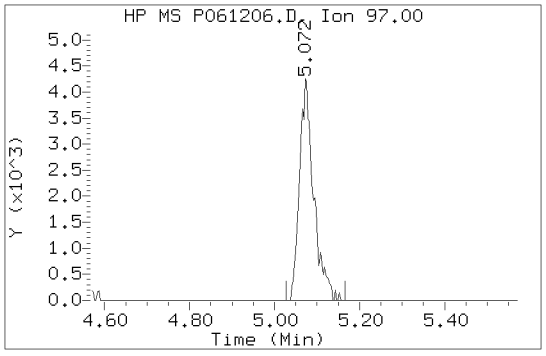
BEFORE

MASS
97
AREA
9862
HEIGHT
4256
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
97
AREA
9862
HEIGHT
4256
22-Jun-2024
12:20
RUCHA
PATEL



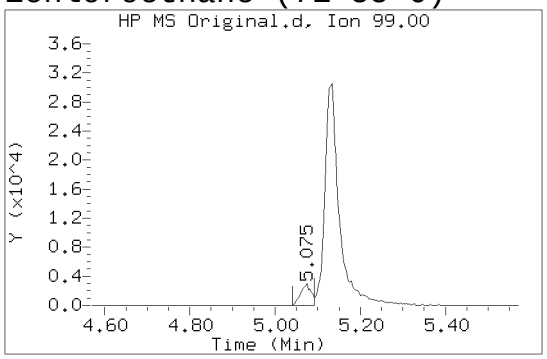
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061206.D
Inj Date : 12-JUN-2024 12:51
InstruID : voa7.i
LabSampID : VSTD005

1,1,1-Trichloroethane (71-55-6)

Reason Code:

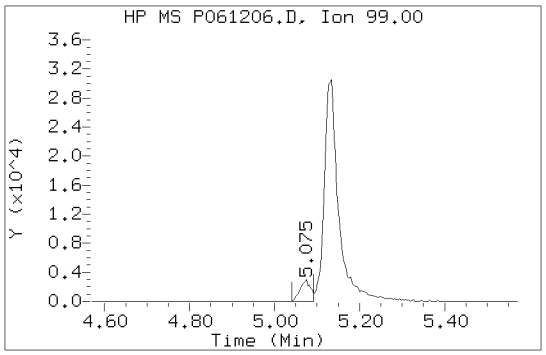
BEFORE

MASS
99
AREA
5072
HEIGHT
2976
22-Jun-2024
12:20
RUCHA
PATEL



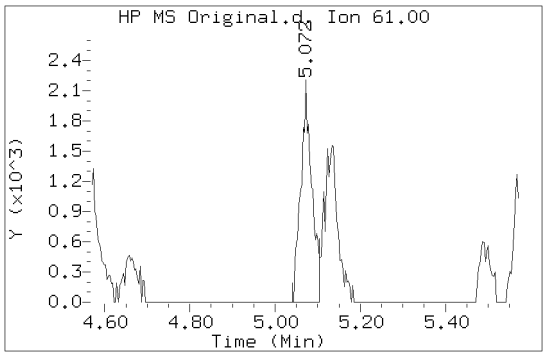
AFTER

MASS
99
AREA
5072
HEIGHT
2976
22-Jun-2024
12:20
RUCHA
PATEL



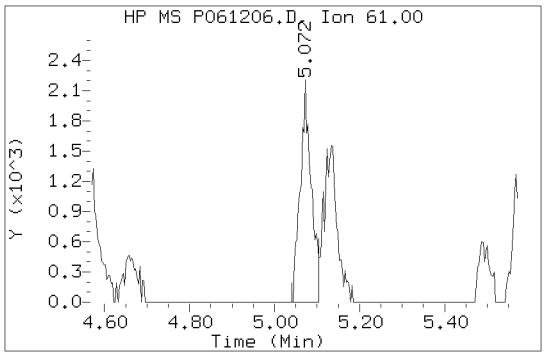
BEFORE

MASS
61
AREA
3995
HEIGHT
2207
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
61
AREA
3995
HEIGHT
2207
22-Jun-2024
12:20
RUCHA
PATEL

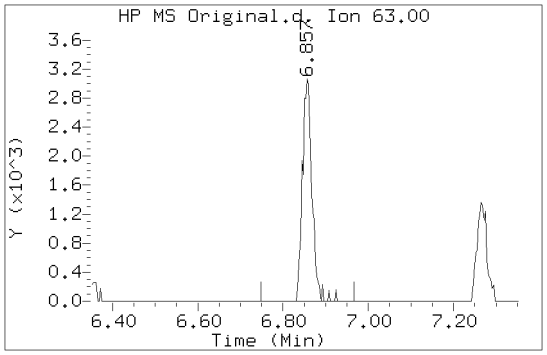


2-Chloroethylvinyl ether (110-75-8)

Reason Code:

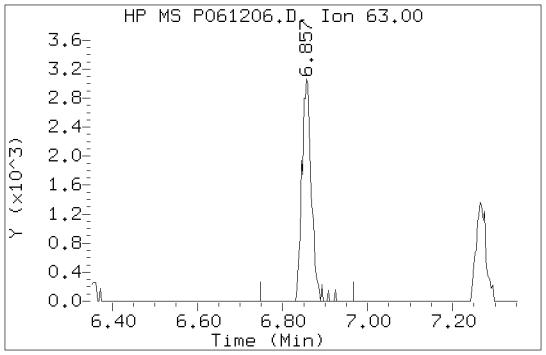
BEFORE

MASS
63
AREA
4830
HEIGHT
3064
22-Jun-2024
12:20
RUCHA
PATEL



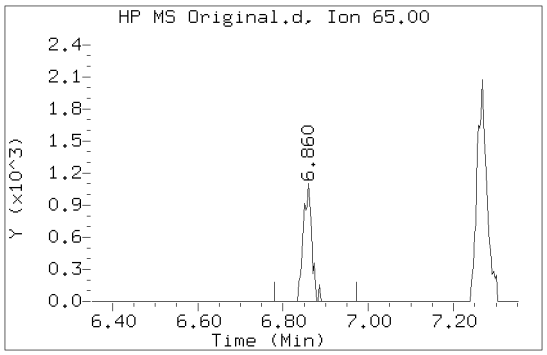
AFTER

MASS
63
AREA
4830
HEIGHT
3064
22-Jun-2024
12:20
RUCHA
PATEL



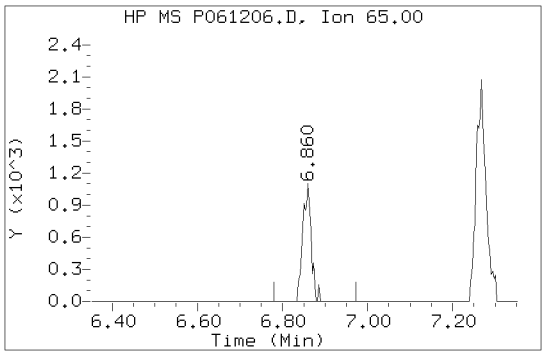
BEFORE

MASS
65
AREA
1513
HEIGHT
1104
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
65
AREA
1513
HEIGHT
1104
22-Jun-2024
12:20
RUCHA
PATEL



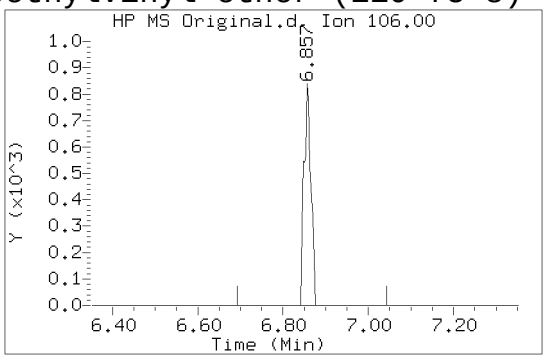
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061206.D
Inj Date : 12-JUN-2024 12:51
InstruID : voa7.i
LabSampID : VSTD005

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

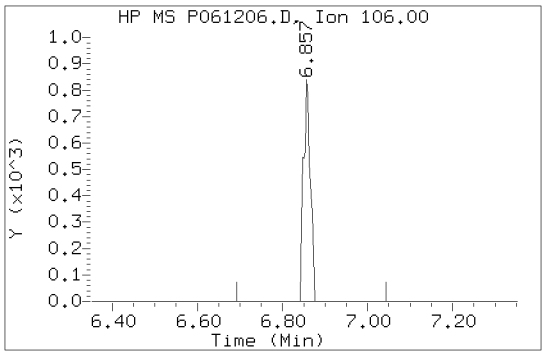
BEFORE

MASS
106
AREA
965
HEIGHT
840
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
106
AREA
965
HEIGHT
840
22-Jun-2024
12:20
RUCHA
PATEL

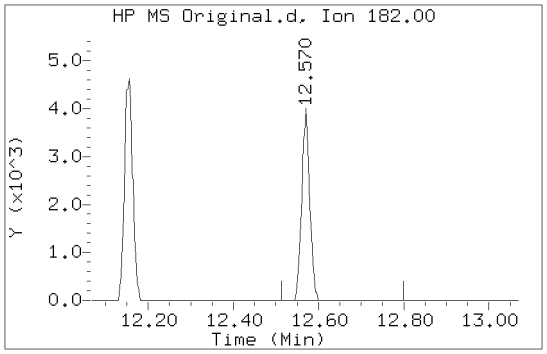


1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

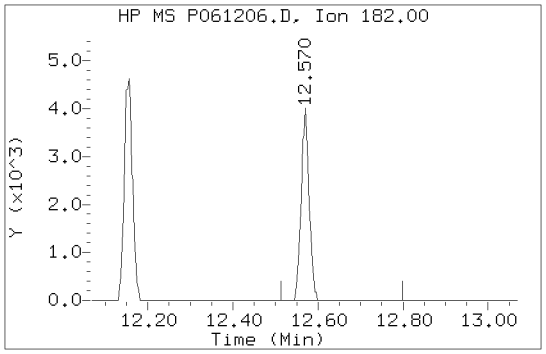
BEFORE

MASS
182
AREA
5273
HEIGHT
4017
22-Jun-2024
12:20
RUCHA
PATEL



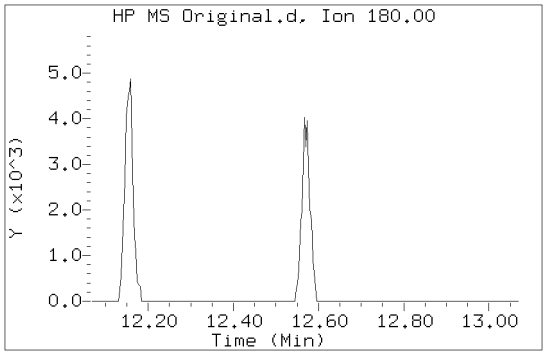
AFTER

MASS
182
AREA
5273
HEIGHT
4017
22-Jun-2024
12:20
RUCHA
PATEL



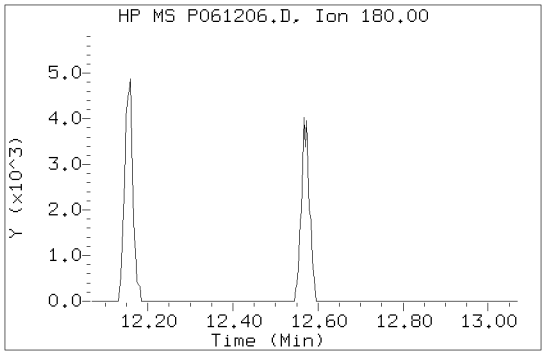
BEFORE

MASS
180
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



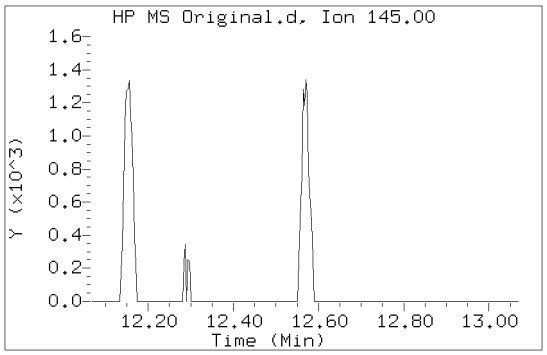
AFTER

MASS
180
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



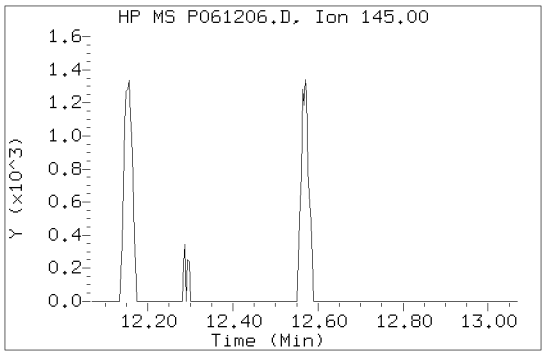
BEFORE

MASS
145
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
145
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



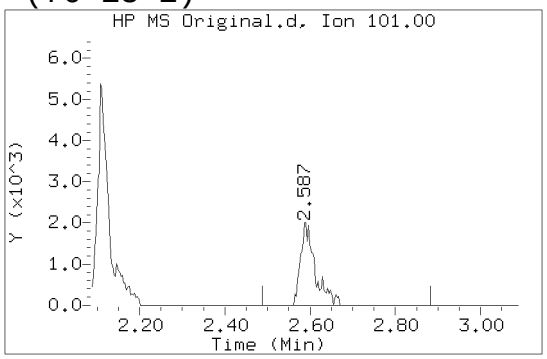
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061206.D
Inj Date : 12-JUN-2024 12:51
InstruID : voa7.i
LabSampID : VSTD005

Freon TF (76-13-1)

Reason Code:

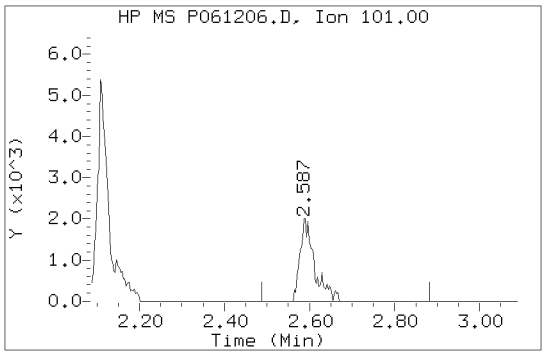
BEFORE

MASS
101
AREA
4806
HEIGHT
2010
22-Jun-2024
12:20
RUCHA
PATEL



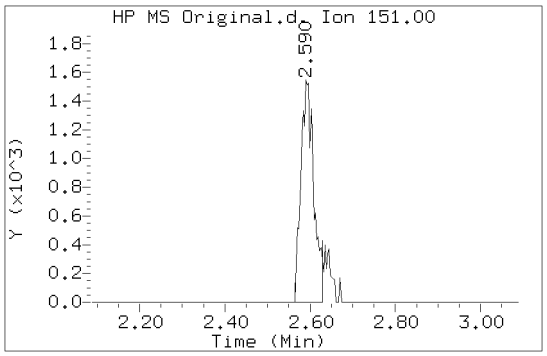
AFTER

MASS
101
AREA
4806
HEIGHT
2010
22-Jun-2024
12:20
RUCHA
PATEL



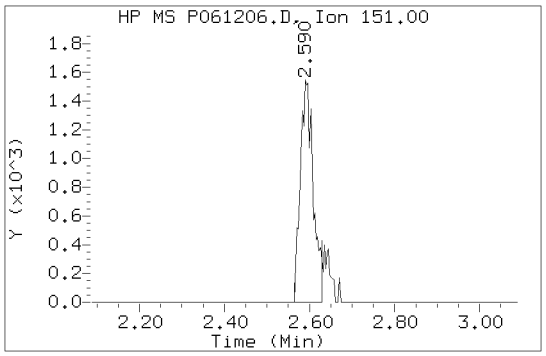
BEFORE

MASS
151
AREA
3258
HEIGHT
1547
22-Jun-2024
12:20
RUCHA
PATEL



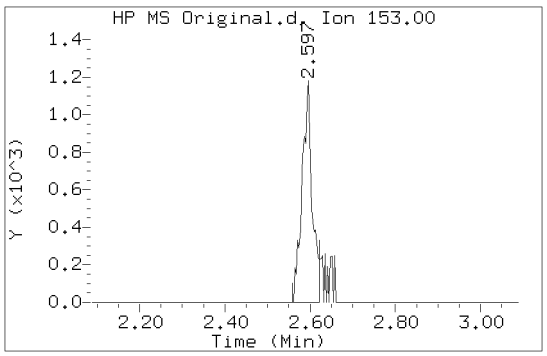
AFTER

MASS
151
AREA
3258
HEIGHT
1547
22-Jun-2024
12:20
RUCHA
PATEL



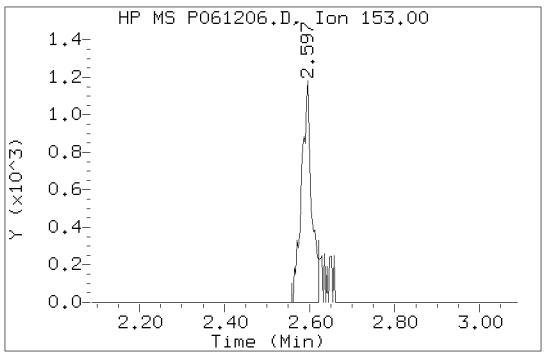
BEFORE

MASS
153
AREA
1972
HEIGHT
1182
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
153
AREA
1972
HEIGHT
1182
22-Jun-2024
12:20
RUCHA
PATEL

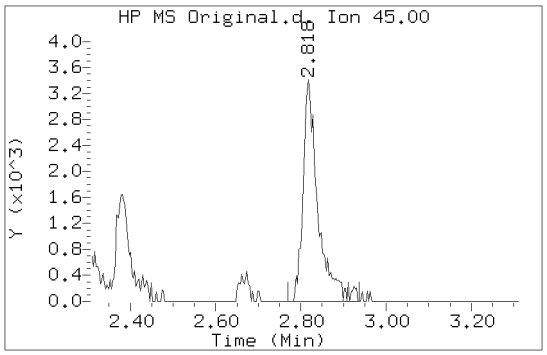


Isopropyl alcohol (67-63-0)

Reason Code:

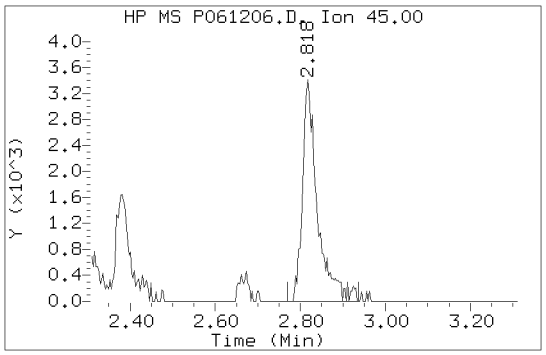
BEFORE

MASS
45
AREA
8371
HEIGHT
3413
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
45
AREA
8371
HEIGHT
3413
22-Jun-2024
12:20
RUCHA
PATEL



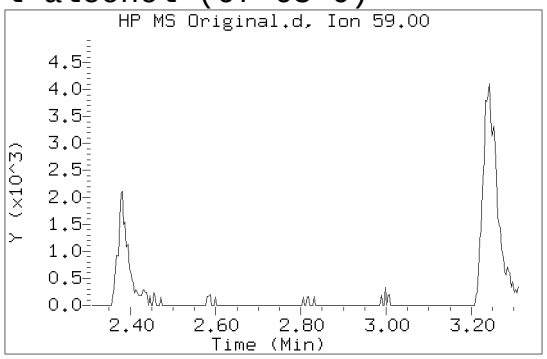
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061206.D
Inj Date : 12-JUN-2024 12:51
InstruID : voa7.i
LabSampID : VSTD005

Isopropyl alcohol (67-63-0)

Reason Code:

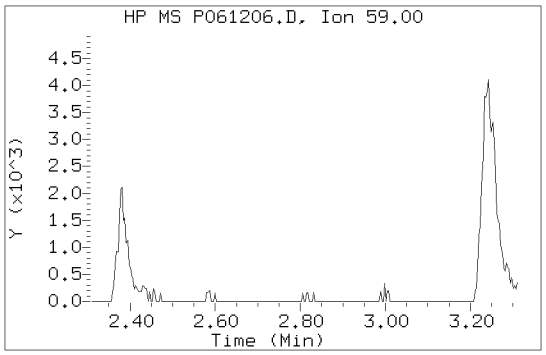
BEFORE

MASS
59
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
59
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL

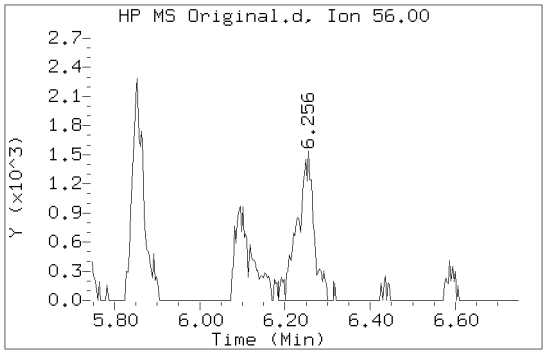


n-Butanol (71-36-3)

Reason Code:

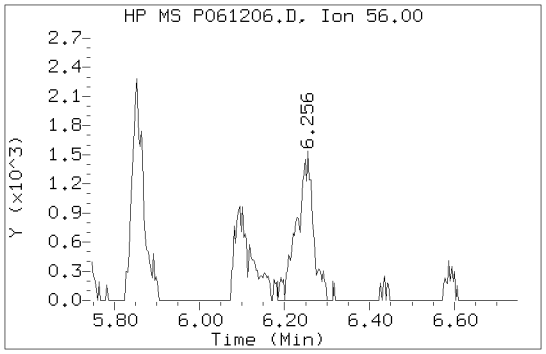
BEFORE

MASS
56
AREA
4168
HEIGHT
1536
22-Jun-2024
12:20
RUCHA
PATEL



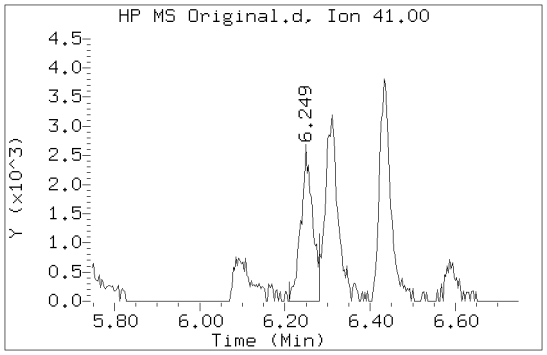
AFTER

MASS
56
AREA
4168
HEIGHT
1536
22-Jun-2024
12:20
RUCHA
PATEL



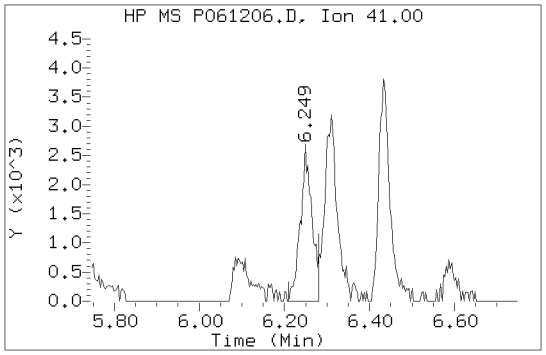
BEFORE

MASS
41
AREA
5132
HEIGHT
2693
22-Jun-2024
12:20
RUCHA
PATEL



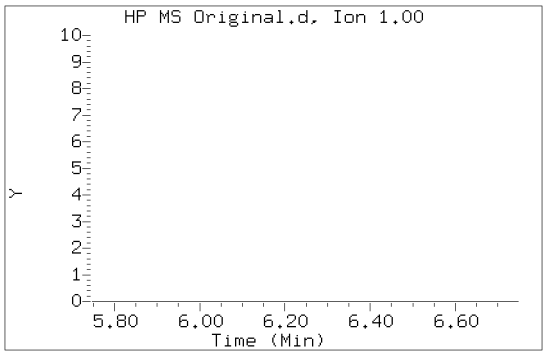
AFTER

MASS
41
AREA
5132
HEIGHT
2693
22-Jun-2024
12:20
RUCHA
PATEL



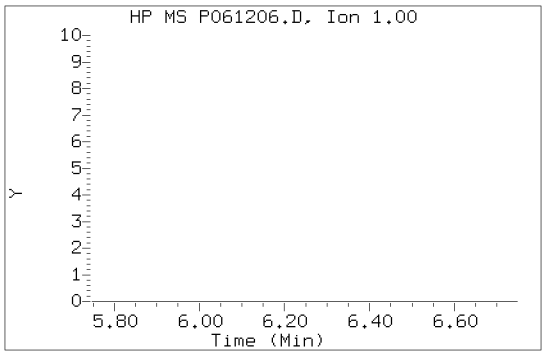
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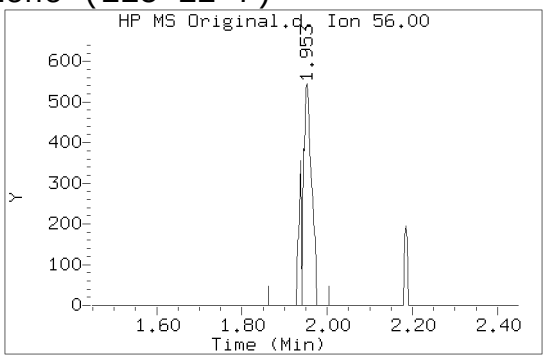


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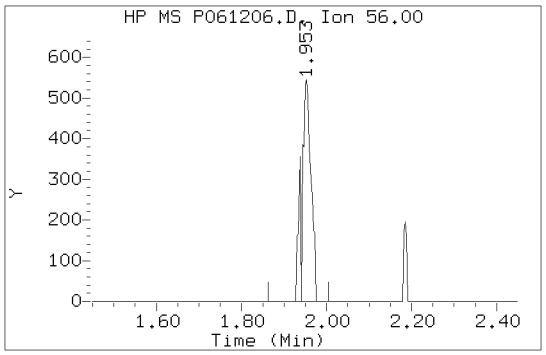
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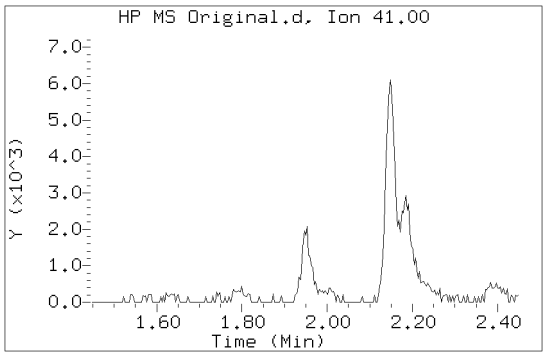
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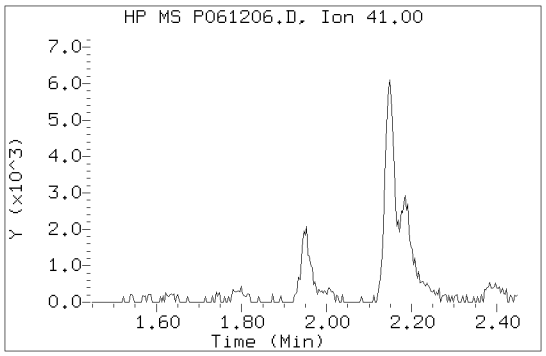
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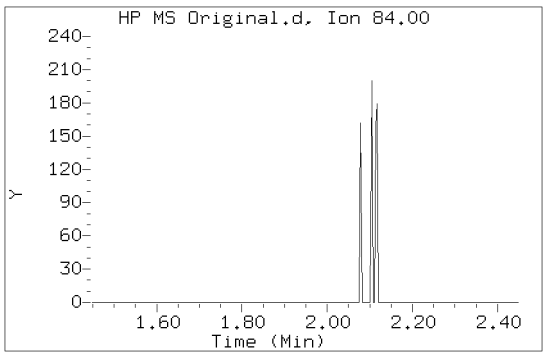
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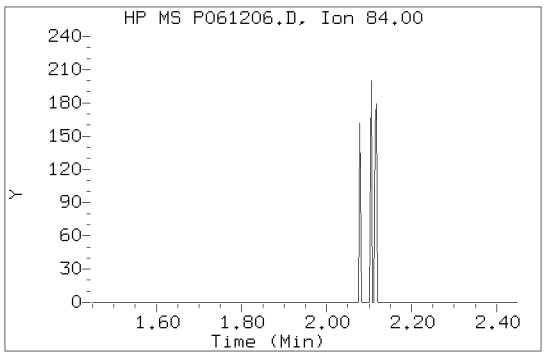
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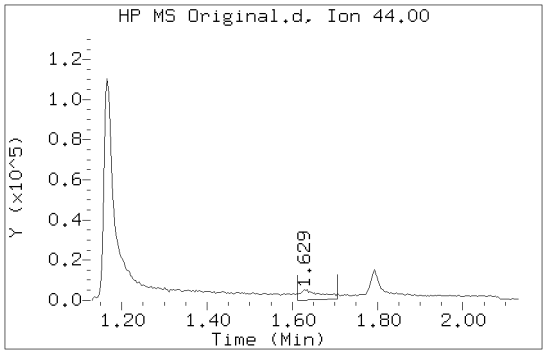
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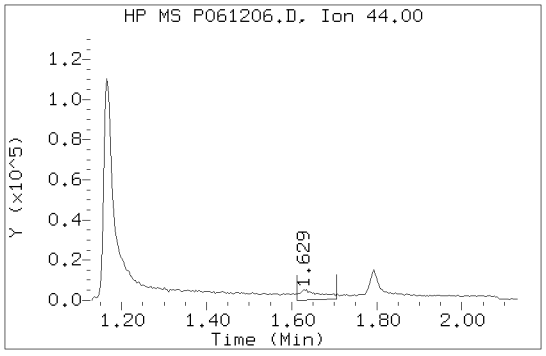
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Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061207.D Page 1
Report Date: 22-Jun-2024 12:21

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061207.D
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Inj Date : 12-JUN-2024 13:14
Operator : AP Inst ID: voa7.i
Smp Info : VSTD010
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Cal Date : 12-JUN-2024 12:51 Cal File: P061206.D
Als bottle: 10 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
* 1 Pentafluorobenzene	168	5.133	5.133	(1.000)	122760	50.0000	
2 Dichlorodifluoromethane	85	1.294	1.294	(0.252)	13733	10.0000	10.70
159 Dichlorofluoromethane	67	2.075	2.075	(0.404)	23165	10.0000	9.13
3 Chloromethane	50	1.451	1.451	(0.283)	20504	10.0000	10.09
4 Propionitrile	54	4.670	4.670	(0.910)	16213	100.000	95.45
5 Vinyl Chloride	62	1.535	1.535	(0.299)	17554	10.0000	10.28
6 Bromomethane	94	1.805	1.805	(0.352)	11794	10.0000	9.73
7 Chloroethane	64	1.895	1.895	(0.369)	11009	10.0000	10.45
8 Trichlorofluoromethane	101	2.113	2.113	(0.412)	22220	10.0000	10.13
9 Acrolein	56	2.515	2.515	(0.490)	688	20.0000	17.33
10 Acetone	43	2.666	2.666	(0.520)	10759	20.0000	21.13(M)
11 1,1-Dichloroethene	96	2.593	2.593	(0.505)	12169	10.0000	10.28(M)
12 Isobutyl Alcohol	43	5.573	5.573	(1.086)	39559	200.000	191.26
13 Acetonitrile	39	2.962	2.962	(0.577)	17600	100.000	99.76
14 Allyl Chloride	41	2.959	2.959	(0.577)	34793	10.0000	9.10
15 Iodomethane	142	2.740	2.740	(0.534)	10595	20.0000	16.44
16 Acrylonitrile	53	3.380	3.380	(0.659)	7540	20.0000	17.90
17 Methylene Chloride	84	3.097	3.097	(0.604)	15055	10.0000	9.63
18 Methyl tert-butyl ether	73	3.380	3.380	(0.659)	28475	10.0000	9.54
19 Carbon Disulfide	76	2.795	2.795	(0.545)	78771	20.0000	20.66

20 trans-1,2-Dichloroethene	96	3.374	3.374 (0.657)	12292	10.0000	9.35	
21 Vinyl Acetate	43	4.660	4.660 (0.908)	15657	20.0000	21.69	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
22	1,1-Dichloroethane	63	3.866	3.866	(0.753)	26028	10.0000	9.73
23	Chloroprene	53	3.965	3.965	(0.773)	21867	10.0000	9.49
24	2-Butanone	43	4.592	4.592	(0.895)	12394	20.0000	20.01
25	Methacrylonitrile	41	2.146	2.146	(0.418)	19313	10.0000	10.55(M)
26	2,2-Dichloropropane	77	4.535	4.535	(0.883)	21711	10.0000	9.83
27	cis-1,2-Dichloroethene	96	4.544	4.544	(0.885)	14273	10.0000	9.80
28	Chloroform	83	4.901	4.901	(0.955)	25405	10.0000	9.52
29	Bromochloromethane	128	4.808	4.808	(0.937)	6945	10.0000	9.48
$ 30	Dibromofluoromethane	113	5.072	5.072	(0.988)	13222	10.0000	9.70
31	1,1,1-Trichloroethane	97	5.072	5.072	(0.988)	22027	10.0000	9.94
32	1,1-Dichloropropene	75	5.242	5.242	(0.896)	18899	10.0000	9.57
33	1,2-Dichloroethane	62	5.490	5.490	(0.938)	22027	10.0000	9.59
34	Carbon Tetrachloride	117	5.236	5.236	(0.895)	19330	10.0000	9.90
$ 35	1,2-Dichloroethane-d4	65	5.416	5.416	(1.055)	18104	10.0000	9.86
* 36	1,4-Difluorobenzene	114	5.853	5.853	(1.000)	203501	50.0000	
37	Benzene	78	5.461	5.461	(0.933)	54343	10.0000	9.83
38	Trichloroethene	130	6.088	6.088	(1.040)	13898	10.0000	9.81
39	Bromodichloromethane	83	6.573	6.573	(1.123)	19931	10.0000	9.73
40	Methyl Methacrylate	41	6.435	6.435	(1.254)	13358	10.0000	9.51
41	2-Chloroethylvinyl ether	63	6.856	6.856	(1.171)	10150	20.0000	18.67(M)
42	1,2-Dichloropropane	63	6.313	6.313	(1.079)	15568	10.0000	9.84
43	2-Nitropropane	43	6.798	6.798	(1.324)	3921	10.0000	9.63
44	Dibromomethane	93	6.419	6.419	(1.097)	8549	10.0000	9.53
45	4-Methyl-2-Pentanone	43	7.126	7.126	(0.842)	28349	20.0000	18.59
46	cis-1,3-Dichloropropene	75	6.978	6.978	(1.192)	20669	10.0000	9.65
* 47	Chlorobenzene-d5	117	8.467	8.467	(1.000)	190162	50.0000	
$ 48	Toluene-d8	98	7.207	7.207	(0.851)	50368	10.0000	9.58
49	Ethyl Methacrylate	69	8.042	8.042	(1.374)	12386	10.0000	9.82
50	Toluene	91	7.264	7.264	(0.858)	56631	10.0000	9.48
51	trans-1,3-Dichloropropene	75	6.978	6.978	(1.192)	20669	10.0000	9.65
52	2-Hexanone	43	7.862	7.862	(0.929)	19605	20.0000	18.72
53	1,1,2-Trichloroethane	83	7.641	7.641	(0.902)	10863	10.0000	9.17
54	1,3-Dichloropropane	76	7.782	7.782	(0.919)	22865	10.0000	9.37
55	Dibromochloromethane	129	7.978	7.978	(0.942)	14217	10.0000	9.27
56	Tetrachloroethene	164	7.737	7.737	(0.914)	10566	10.0000	9.40
57	1,2-Dibromoethane	107	8.075	8.075	(0.954)	11071	10.0000	9.94
58	1-Chlorohexane	55	8.467	8.467	(1.447)	15803	10.0000	10.28
59	Chlorobenzene	112	8.493	8.493	(1.003)	37090	10.0000	9.54
60	1,1,1,2-Tetrachloroethane	131	8.563	8.563	(1.011)	12805	10.0000	9.36
61	Ethylbenzene	106	8.583	8.583	(1.014)	18857	10.0000	9.60
62	m,p-Xylenes	106	8.682	8.682	(1.025)	48175	20.0000	19.31
63	o-Xylene	106	9.023	9.023	(1.066)	23155	10.0000	9.57
64	Styrene	104	9.039	9.039	(1.068)	37663	10.0000	9.47
66	Bromoform	173	9.203	9.203	(1.087)	8762	10.0000	9.32(T)
67	Isopropylbenzene	105	9.338	9.338	(1.103)	59794	10.0000	9.88
68	1,1,2,2-Tetrachloroethane	83	9.608	9.608	(0.919)	16494	10.0000	9.20
$ 69	4-Bromofluorobenzene	95	9.477	9.477	(1.119)	20440	10.0000	9.29
* 70	1,4-Dichlorobenzene-d4	152	10.457	10.457	(1.000)	91786	50.0000	
71	1,2,3-Trichloropropane	75	9.647	9.647	(0.923)	17513	10.0000	8.95
72	trans-1,4-Dichloro-2-butene	53	9.657	9.657	(1.140)	3844	10.0000	10.00
73	n-Propylbenzene	91	9.692	9.692	(0.927)	69205	10.0000	9.59
74	Bromobenzene	156	9.605	9.605	(0.919)	15846	10.0000	9.62

75	1,3,5-Trimethylbenzene	105	9.840	9.840 (0.941)	48385	10.0000	9.74
76	2-Chlorotoluene	91	9.766	9.766 (0.934)	43088	10.0000	9.46

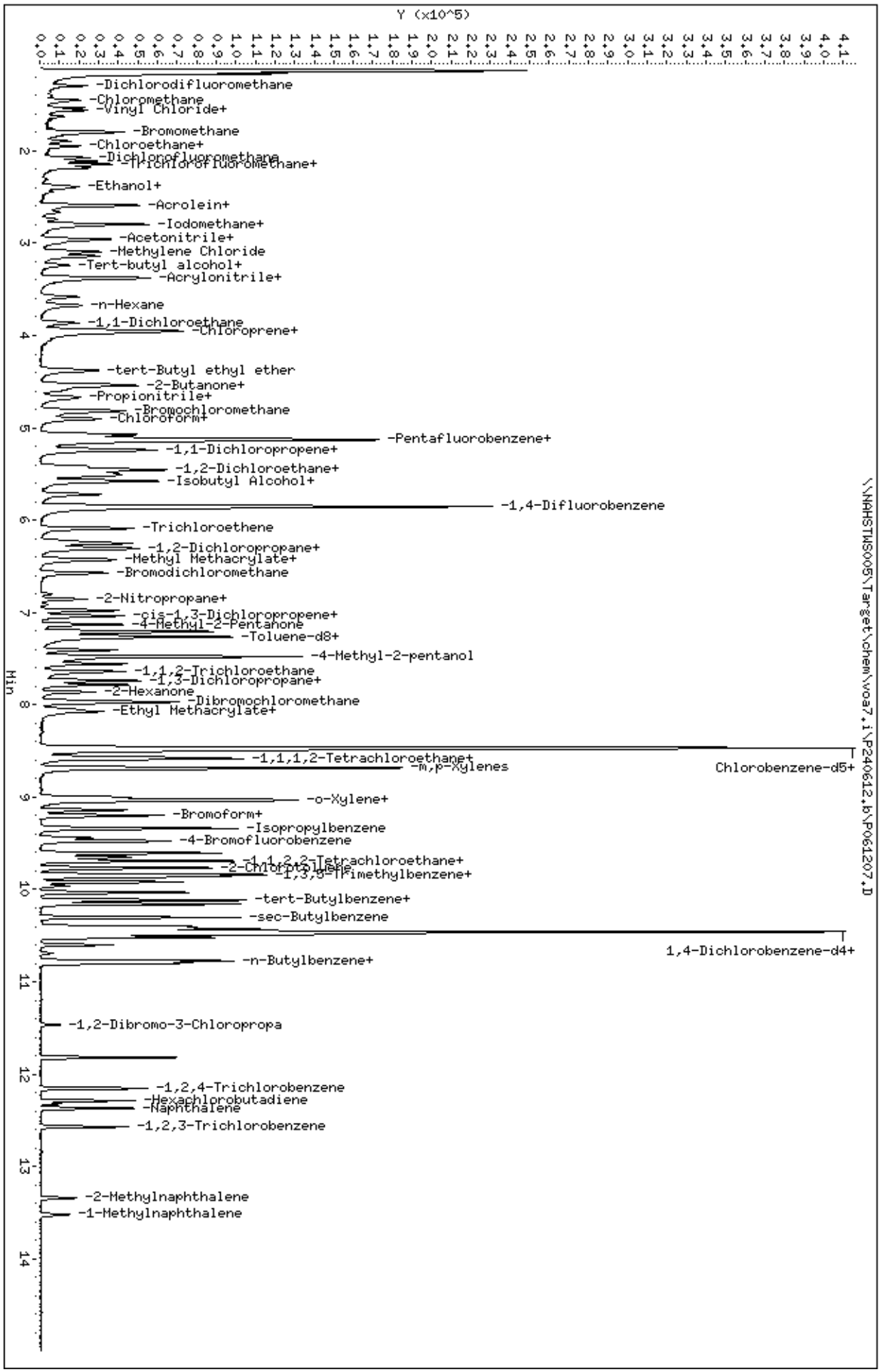
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Report Date: 22-Jun-2024 12:21

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
77	4-Chlorotoluene	91	9.859	9.859	(0.943)	50748	10.0000	9.54
78	tert-Butylbenzene	119	10.116	10.116	(0.967)	42861	10.0000	10.01
79	1,2,4-Trimethylbenzene	105	10.158	10.158	(0.971)	48879	10.0000	9.57
81	sec-Butylbenzene	105	10.303	10.303	(0.985)	57424	10.0000	9.75
82	p-Isopropyltoluene	119	10.425	10.425	(0.997)	48864	10.0000	9.34
83	1,3-Dichlorobenzene	146	10.403	10.403	(0.995)	26990	10.0000	9.35
84	1,4-Dichlorobenzene	146	10.480	10.480	(1.002)	29125	10.0000	9.72
87	n-Butylbenzene	91	10.772	10.772	(1.030)	45236	10.0000	9.54
88	1,2-Dichlorobenzene	146	10.798	10.798	(1.033)	25590	10.0000	9.07
89	1,2-Dibromo-3-Chloropropane	75	11.464	11.464	(1.096)	2476	10.0000	9.10
90	1,2,4-Trichlorobenzene	180	12.158	12.158	(1.163)	14853	10.0000	9.21
91	Hexachlorobutadiene	225	12.290	12.290	(1.175)	7652	10.0000	10.25
92	Naphthalene	128	12.370	12.370	(1.183)	31957	10.0000	8.88
93	1,2,3-Trichlorobenzene	182	12.566	12.566	(1.202)	11945	10.0000	9.47(M)
146	Methyl acetate	43	2.994	2.994	(0.583)	10260	10.0000	9.93
138	Freon TF	101	2.593	2.593	(0.505)	12429	10.0000	10.35
139	Diethyl ether	59	2.380	2.380	(0.464)	7639	10.0000	9.48(M)
140	1,3-Butadiene	54	1.564	1.564	(0.305)	7078	10.0000	10.02(M)
141	Cyclohexane	56	5.110	5.110	(0.996)	21416	10.0000	10.36
147	Methylcyclohexane	83	6.252	6.252	(1.068)	17217	10.0000	9.50
132	n-Butanol	56	6.255	6.255	(1.219)	8353	200.000	203.47(TM)
131	Methyl Acrylate	55	4.695	4.695	(0.915)	12697	10.0000	9.23
133	Ethyl Acrylate	55	6.223	6.223	(1.212)	32833	10.0000	9.44
136	n-Hexane	57	3.670	3.670	(0.715)	13421	10.0000	10.35
142	Tetrahydrofuran	42	4.866	4.866	(0.948)	3784	20.0000	17.93
148	Tert-butyl alcohol	59	3.239	3.239	(0.631)	18548	200.000	199.89
149	Isopropyl alcohol	45	2.818	2.818	(0.549)	15178	200.000	192.88
151	4-Methyl-2-pentanol	45	7.477	7.477	(0.883)	80928	200.000	214.48
166	1,2,3-Trimethylbenzene	105	10.518	10.518	(1.006)	41781	10.0000	8.88
167	Ethanol	45	2.310	2.310	(0.450)	3235	200.000	204.15
172	tert-Butyl formate	59	3.239	3.239	(0.631)	18548	20.0000	19.89
173	3,3-Dimethyl-1-butanol	57	8.052	8.052	(0.951)	18947	200.000	207.13
174	tert-Amyl methyl ether	73	5.580	5.580	(1.087)	33756	10.0000	9.58
175	tert-Butyl ethyl ether	59	4.380	4.380	(0.853)	33998	10.0000	9.23
157	2-Methylnaphthalene	142	13.341	13.341	(1.276)	8422	10.0000	8.89
156	Diisopropyl ether	45	3.949	3.949	(0.769)	39998	10.0000	9.25(T)
171	1-Methylnaphthalene	142	13.525	13.525	(1.293)	7742	10.0000	9.33
130	Ethyl Acetate	43	3.949	3.949	(0.769)	76520	10.0000	9.67(T)
176	tert-Amyl alcohol	59	5.515	5.515	(1.075)	22327	200.000	242.11(AM)
160	Epichlorohydrin	57	6.917	6.917	(1.182)	2913	40.0000	38.66
161	Butyl acrylate	55	8.997	8.997	(1.063)	26791	10.0000	8.87
182	Isobutylene	56	1.946	1.946	(0.379)	1565	10.0000	8.67(AM)
183	Isopropyl Acetate	43	5.573	5.573	(0.952)	39559	10.0000	9.34(A)
184	n-Amyl acetate	43	9.194	9.194	(1.086)	26666	10.0000	9.69(A)
185	Acetaldehyde	44	1.628	1.628	(0.317)	27449	40.0000	59.55(AM)

QC Flag Legend

T - Target compound detected outside RT window.
A - Target compound detected but, quantitated amount exceeded maximum amount.

M - Compound response manually integrated.



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Sample Info: VSTD010
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Instrument: voa7.i
Operator: AP
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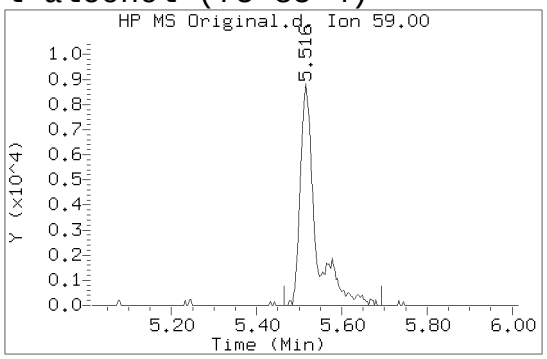
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Inj Date : 12-JUN-2024 13:14
InstruID : voa7.i
LabSampID : VSTD010

tert-Amyl alcohol (75-85-4)

Reason Code:

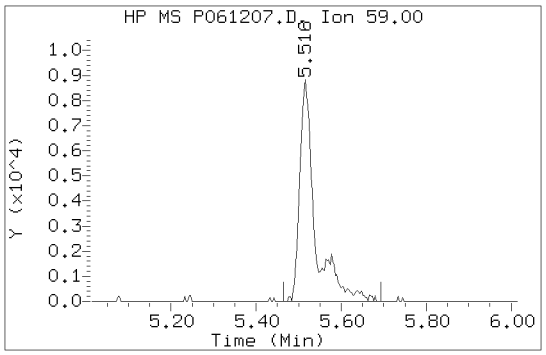
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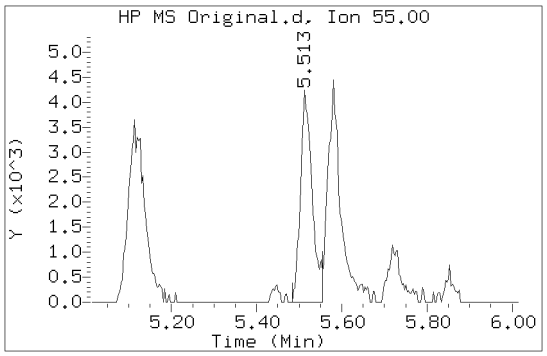
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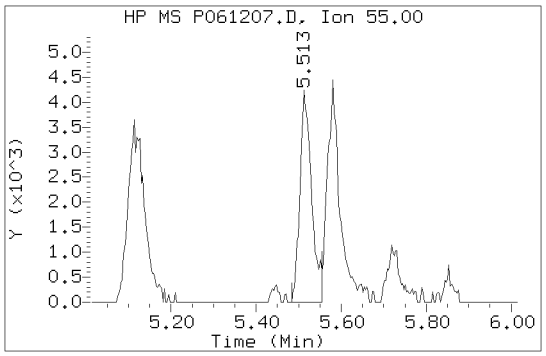
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RUCHA
PATEL



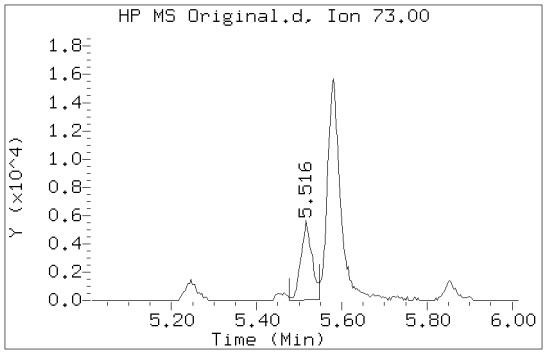
AFTER

MASS
55
AREA
8126
HEIGHT
4241
22-Jun-2024
12:20
RUCHA
PATEL



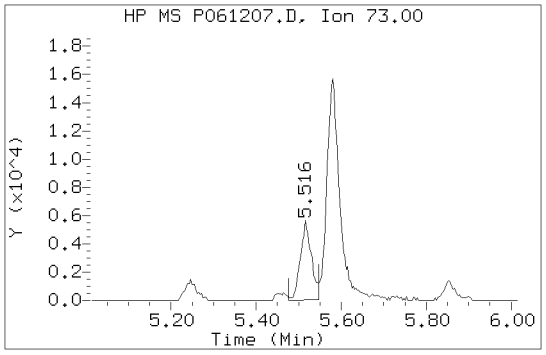
BEFORE

MASS
73
AREA
10149
HEIGHT
5612
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
73
AREA
10149
HEIGHT
5612
22-Jun-2024
12:20
RUCHA
PATEL

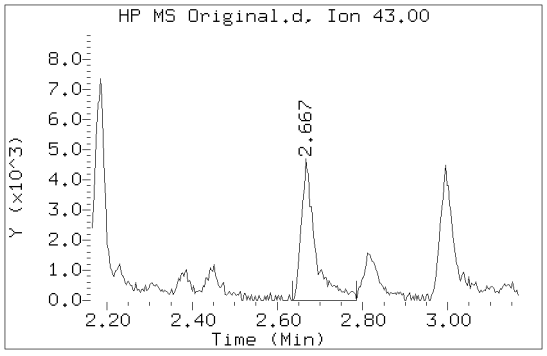


Acetone (67-64-1)

Reason Code:

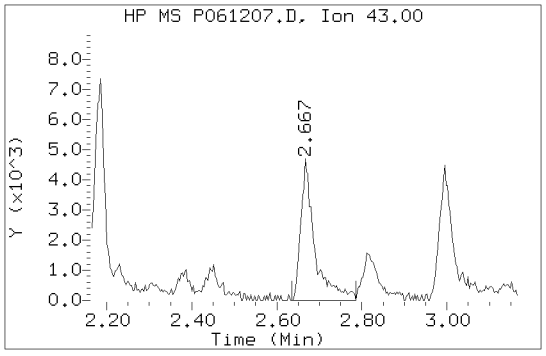
BEFORE

MASS
43
AREA
10759
HEIGHT
4704
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
43
AREA
10759
HEIGHT
4704
22-Jun-2024
12:20
RUCHA
PATEL



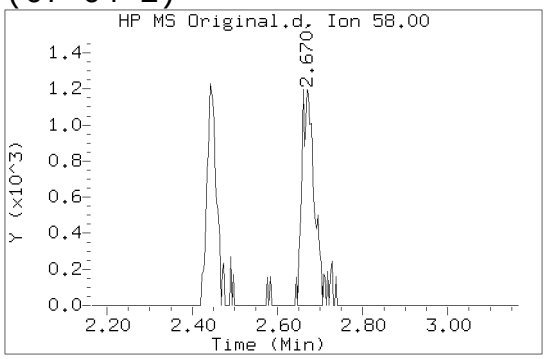
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Inj Date : 12-JUN-2024 13:14
InstruID : voa7.i
LabSampID : VSTD010

Acetone (67-64-1)

Reason Code:

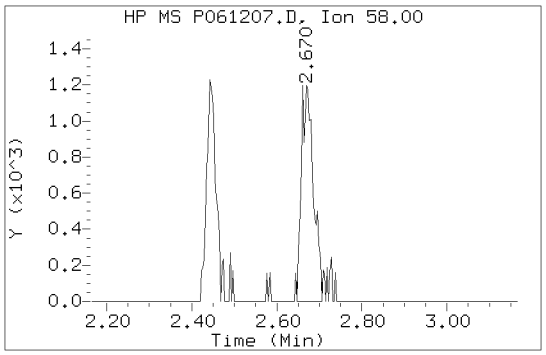
BEFORE

MASS
58
AREA
2348
HEIGHT
1198
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
58
AREA
2348
HEIGHT
1198
22-Jun-2024
12:20
RUCHA
PATEL

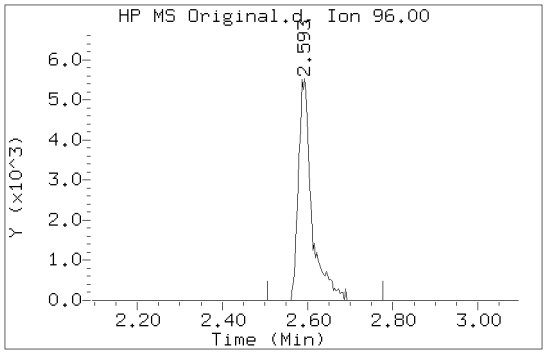


1,1-Dichloroethene (75-35-4)

Reason Code:

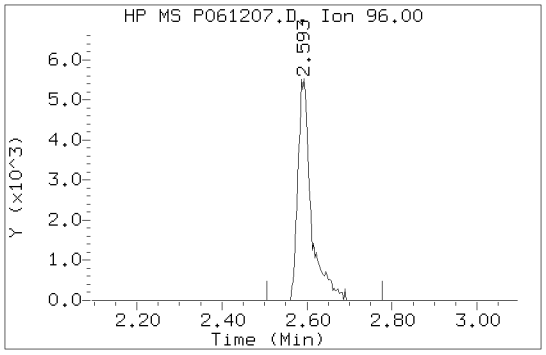
BEFORE

MASS
96
AREA
12169
HEIGHT
5531
22-Jun-2024
12:20
RUCHA
PATEL



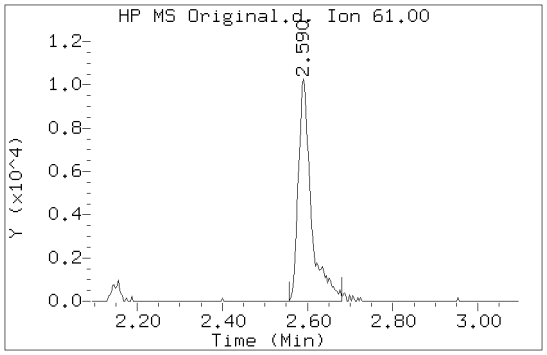
AFTER

MASS
96
AREA
12169
HEIGHT
5531
22-Jun-2024
12:20
RUCHA
PATEL



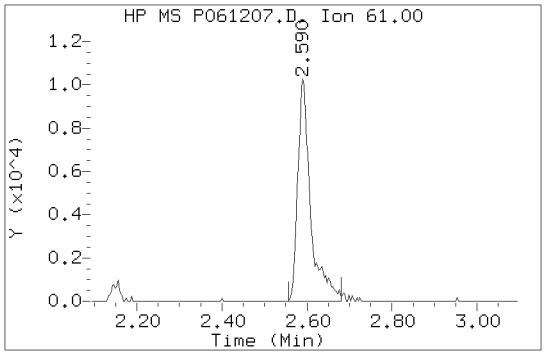
BEFORE

MASS
61
AREA
21848
HEIGHT
10276
22-Jun-2024
12:20
RUCHA
PATEL



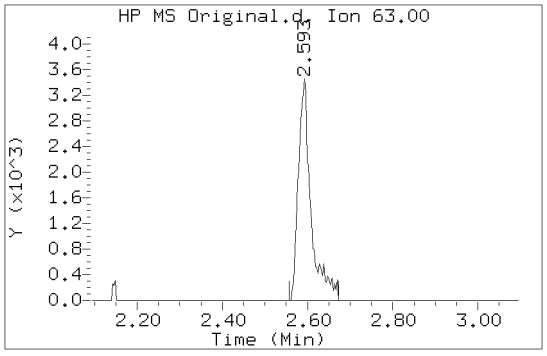
AFTER

MASS
61
AREA
21848
HEIGHT
10276
22-Jun-2024
12:20
RUCHA
PATEL



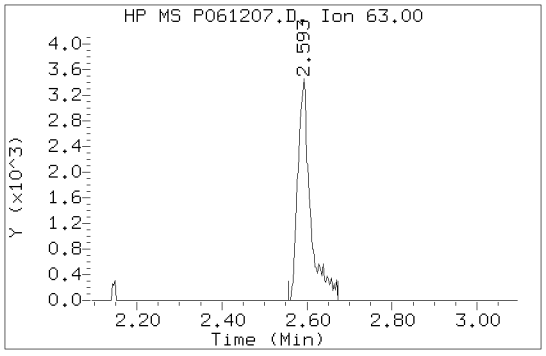
BEFORE

MASS
63
AREA
7162
HEIGHT
3460
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
63
AREA
7162
HEIGHT
3460
22-Jun-2024
12:20
RUCHA
PATEL



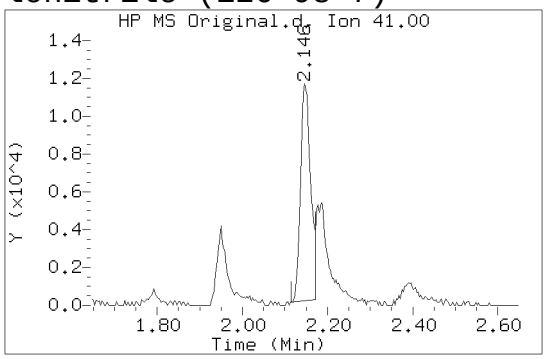
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061207.D
Inj Date : 12-JUN-2024 13:14
InstruID : voa7.i
LabSampID : VSTD010

Methacrylonitrile (126-98-7)

Reason Code:

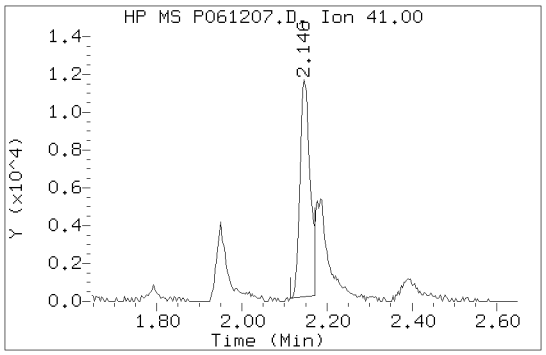
BEFORE

MASS
41
AREA
19313
HEIGHT
11476
22-Jun-2024
12:20
RUCHA
PATEL



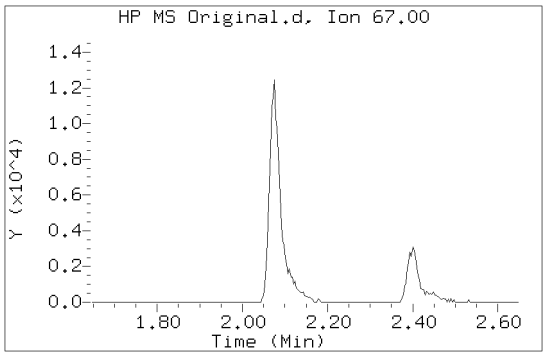
AFTER

MASS
41
AREA
19313
HEIGHT
11476
22-Jun-2024
12:20
RUCHA
PATEL



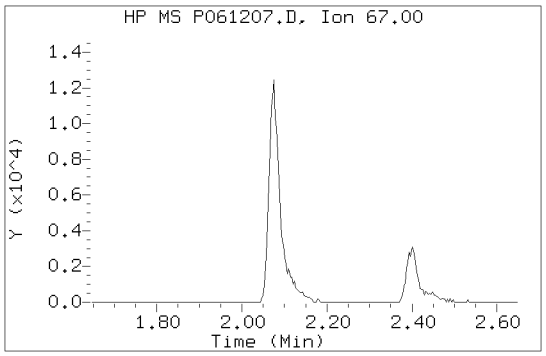
BEFORE

MASS
67
AREA
4185
HEIGHT
2335
22-Jun-2024
12:20
RUCHA
PATEL



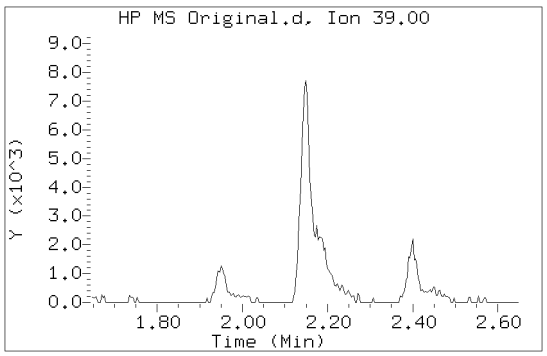
AFTER

MASS
67
AREA
4185
HEIGHT
2335
22-Jun-2024
12:20
RUCHA
PATEL



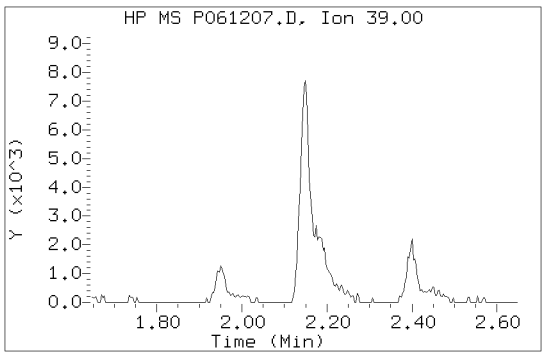
BEFORE

MASS
39
AREA
3050
HEIGHT
1232
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
39
AREA
3050
HEIGHT
1232
22-Jun-2024
12:20
RUCHA
PATEL

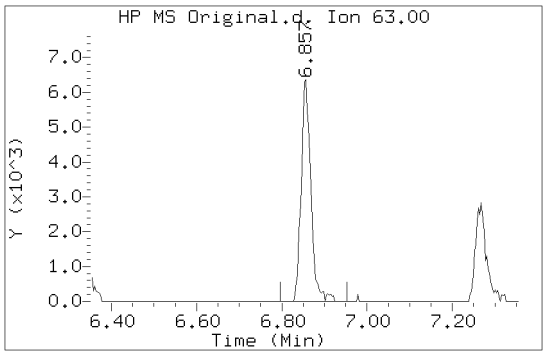


2-Chloroethylvinyl ether (110-75-8)

Reason Code:

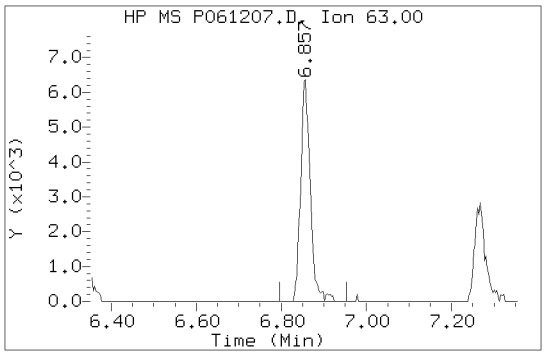
BEFORE

MASS
63
AREA
10150
HEIGHT
6362
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
63
AREA
10150
HEIGHT
6362
22-Jun-2024
12:20
RUCHA
PATEL



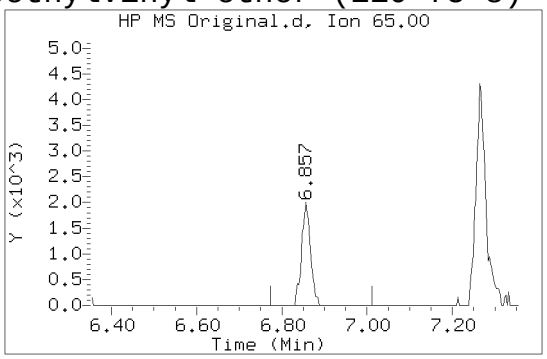
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061207.D
Inj Date : 12-JUN-2024 13:14
InstruID : voa7.i
LabSampID : VSTD010

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

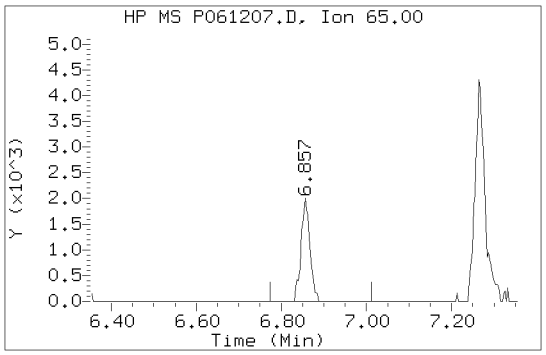
BEFORE

MASS
65
AREA
2948
HEIGHT
2004
22-Jun-2024
12:20
RUCHA
PATEL



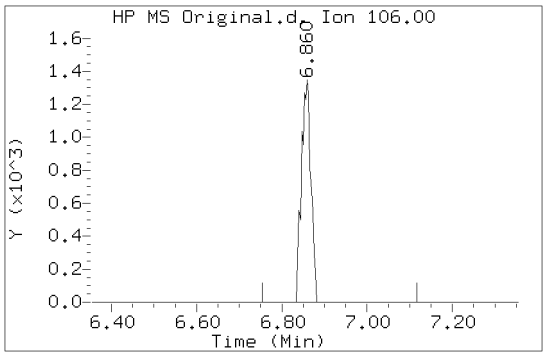
AFTER

MASS
65
AREA
2948
HEIGHT
2004
22-Jun-2024
12:20
RUCHA
PATEL



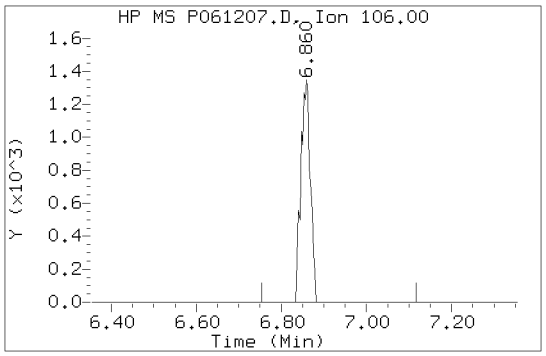
BEFORE

MASS
106
AREA
2108
HEIGHT
1348
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
106
AREA
2108
HEIGHT
1348
22-Jun-2024
12:20
RUCHA
PATEL

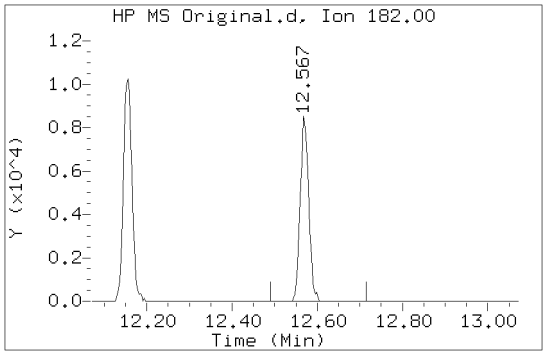


1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

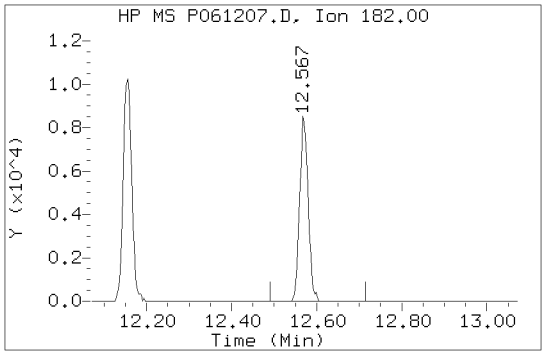
BEFORE

MASS
182
AREA
11945
HEIGHT
8535
22-Jun-2024
12:20
RUCHA
PATEL



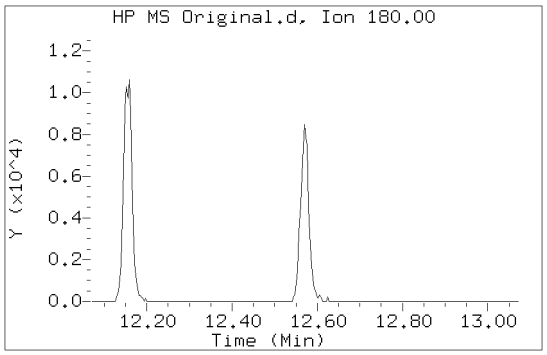
AFTER

MASS
182
AREA
11945
HEIGHT
8535
22-Jun-2024
12:20
RUCHA
PATEL



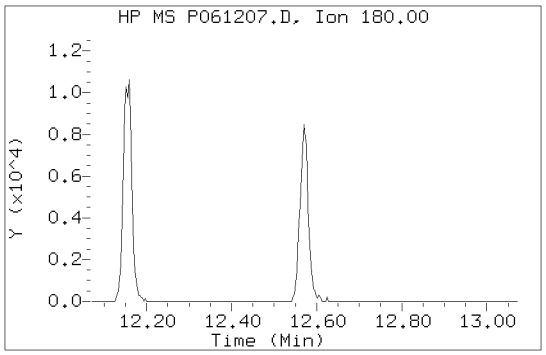
BEFORE

MASS
180
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
180
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



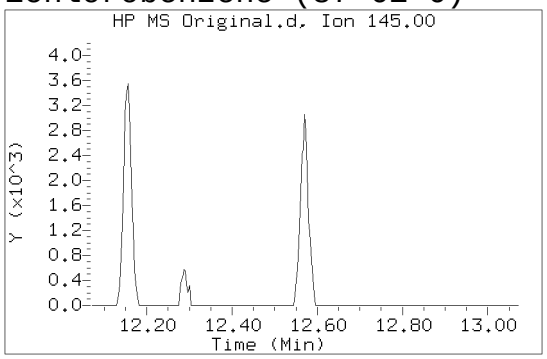
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Inj Date : 12-JUN-2024 13:14
InstruID : voa7.i
LabSampID : VSTD010

1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

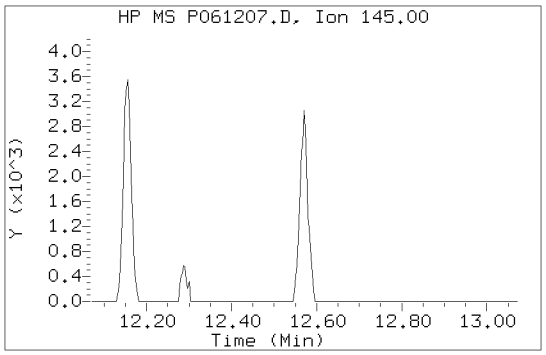
BEFORE

MASS
145
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
145
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL

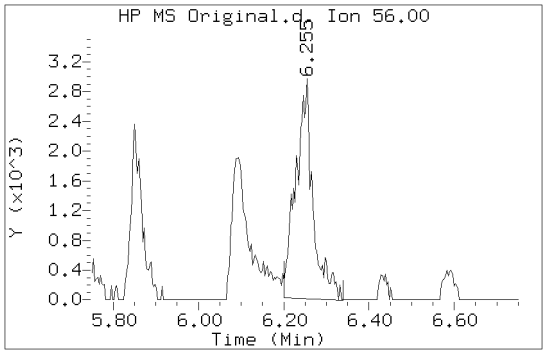


n-Butanol (71-36-3)

Reason Code:

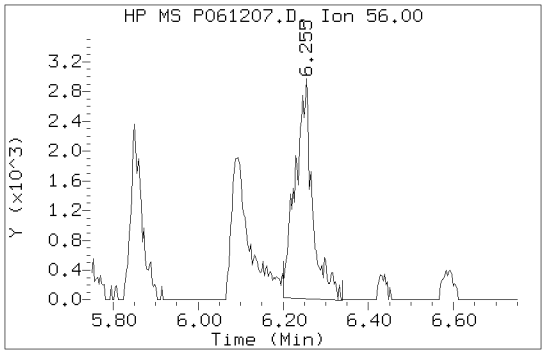
BEFORE

MASS
56
AREA
8353
HEIGHT
2957
22-Jun-2024
12:20
RUCHA
PATEL



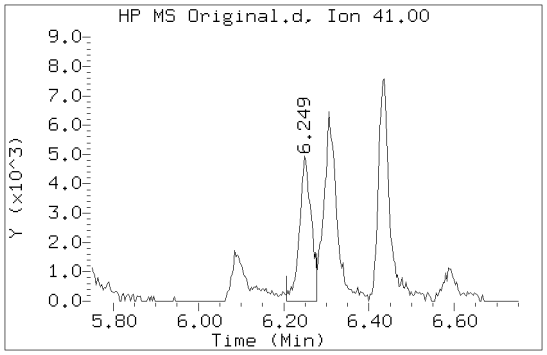
AFTER

MASS
56
AREA
8353
HEIGHT
2957
22-Jun-2024
12:20
RUCHA
PATEL



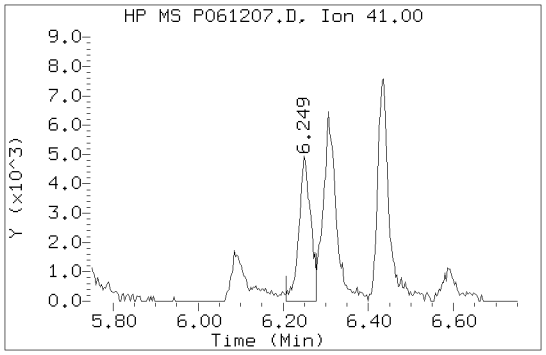
BEFORE

MASS
41
AREA
9522
HEIGHT
4950
22-Jun-2024
12:20
RUCHA
PATEL



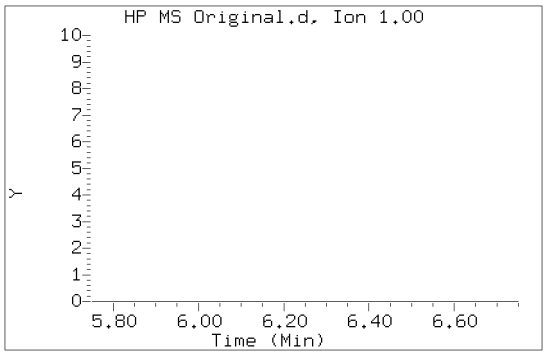
AFTER

MASS
41
AREA
9522
HEIGHT
4950
22-Jun-2024
12:20
RUCHA
PATEL



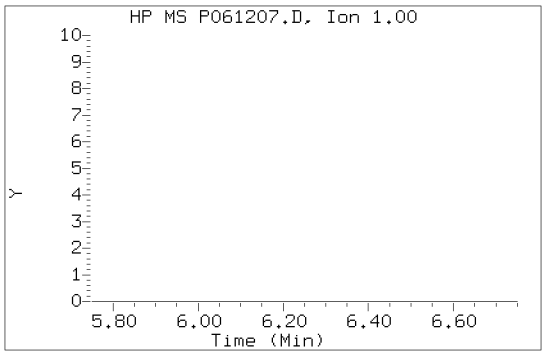
BEFORE

MASS
1
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
1
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL

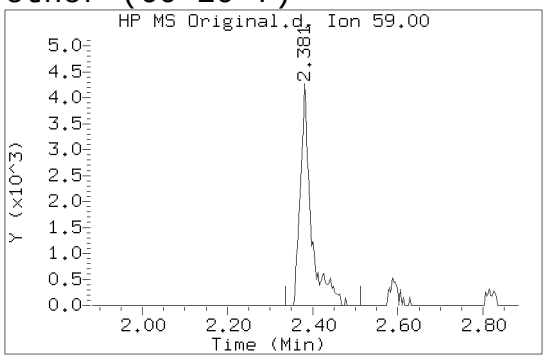


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InstruID : voa7.i
LabSampID : VSTD010

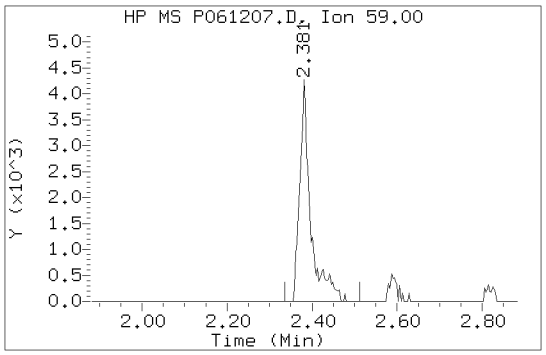
Diethyl ether (60-29-7)

Reason Code:

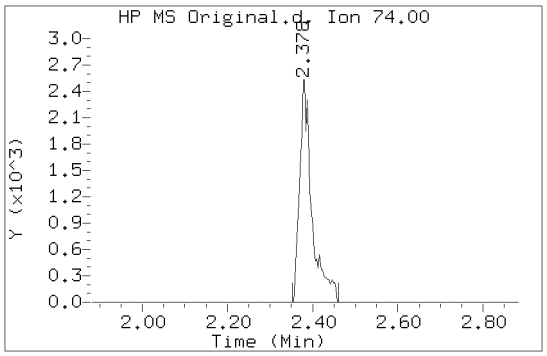
BEFORE
MASS
59
AREA
7639
HEIGHT
4272
22-Jun-2024
12:20
RUCHA
PATEL



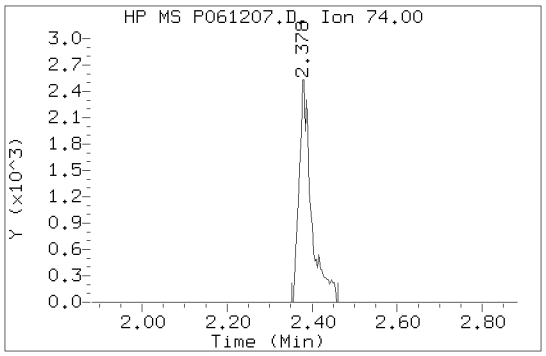
AFTER
MASS
59
AREA
7639
HEIGHT
4272
22-Jun-2024
12:20
RUCHA
PATEL



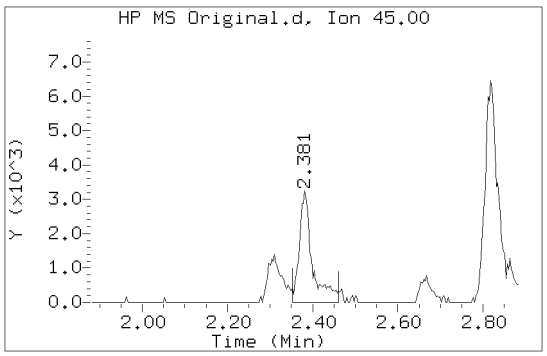
BEFORE
MASS
74
AREA
5103
HEIGHT
2530
22-Jun-2024
12:20
RUCHA
PATEL



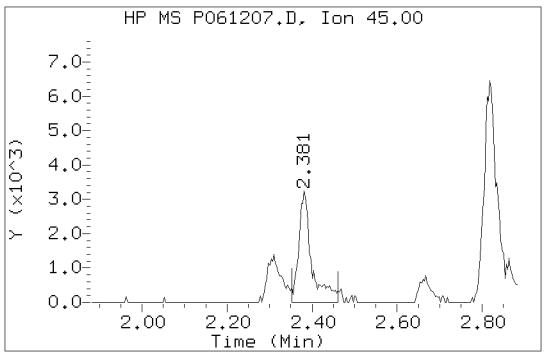
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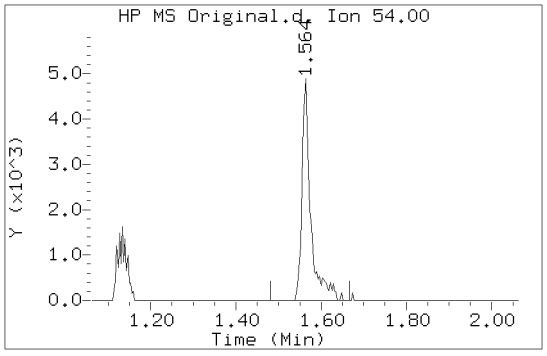
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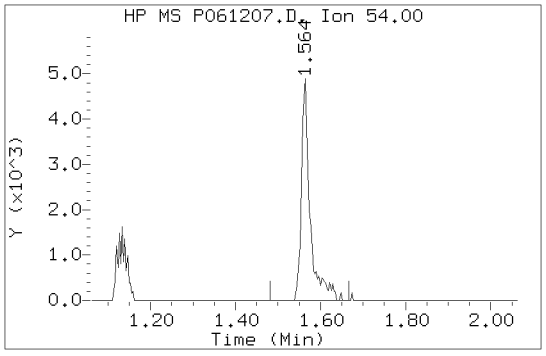
1,3-Butadiene (106-99-0)

Reason Code:

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7078
HEIGHT
4891
22-Jun-2024
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RUCHA
PATEL



AFTER
MASS
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HEIGHT
4891
22-Jun-2024
12:20
RUCHA
PATEL



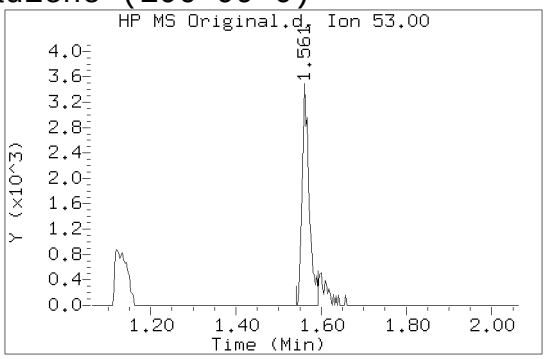
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Inj Date : 12-JUN-2024 13:14
InstruID : voa7.i
LabSampID : VSTD010

1,3-Butadiene (106-99-0)

Reason Code:

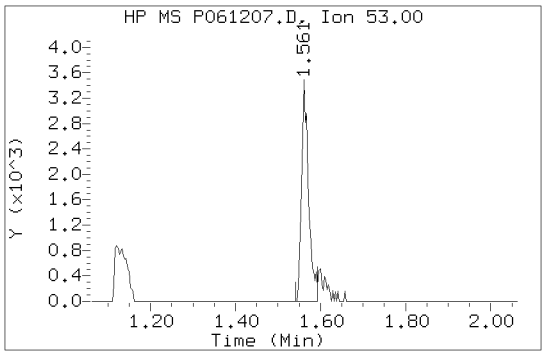
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22-Jun-2024
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PATEL



AFTER

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22-Jun-2024
12:20
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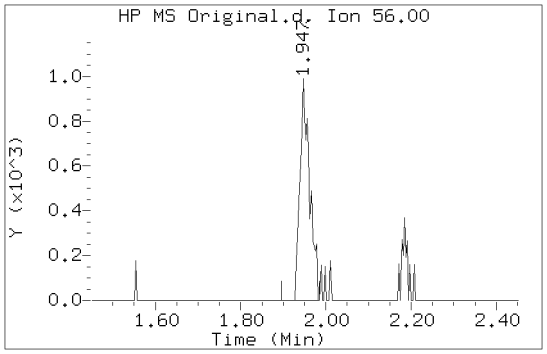


Isobutylene (115-11-7)

Reason Code:

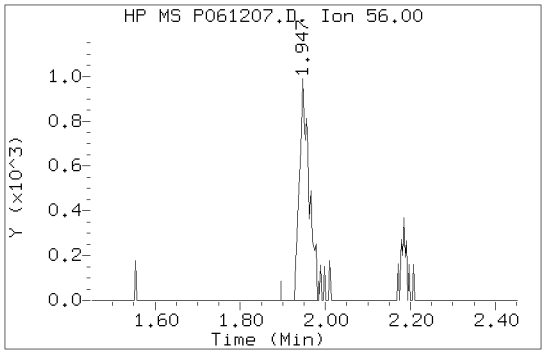
BEFORE

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990
22-Jun-2024
12:20
RUCHA
PATEL



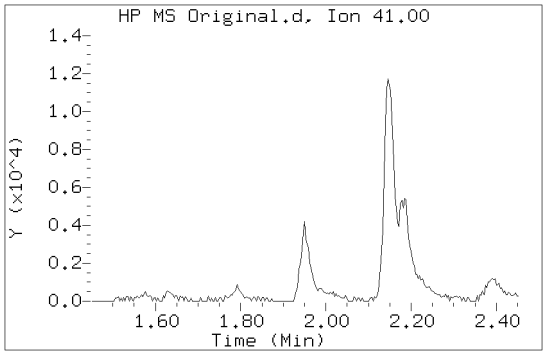
AFTER

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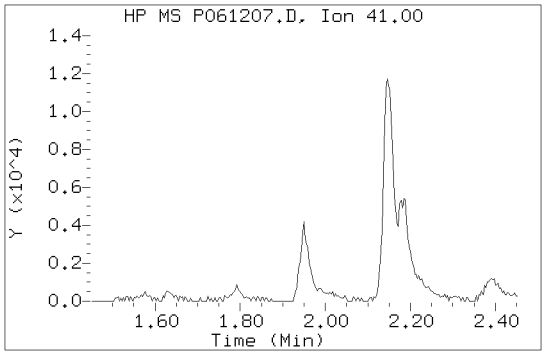
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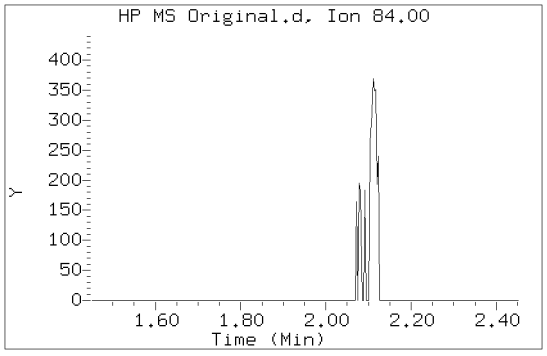
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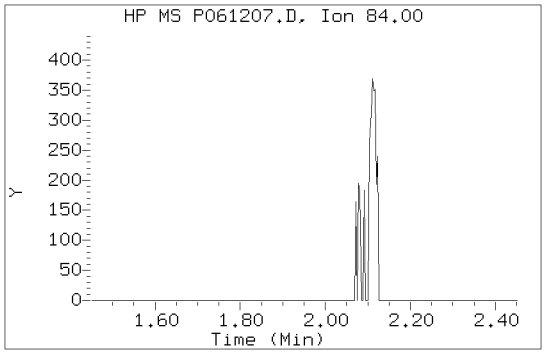
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AFTER

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HEIGHT
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22-Jun-2024
12:20
RUCHA
PATEL



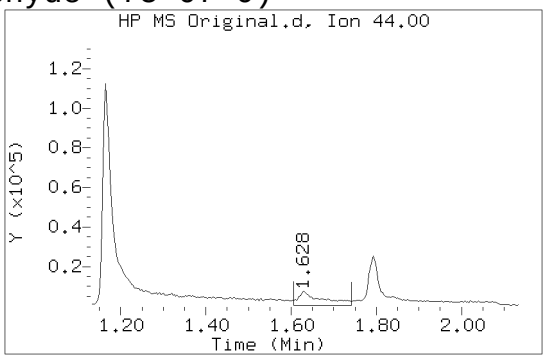
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Inj Date : 12-JUN-2024 13:14
InstruID : voa7.i
LabSampID : VSTD010

Acetaldehyde (75-07-0)

Reason Code:

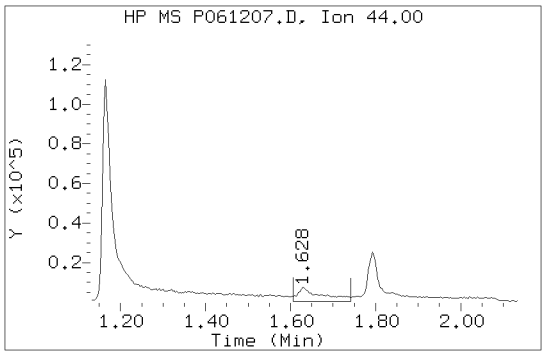
BEFORE

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HEIGHT
6963
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
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AREA
27449
HEIGHT
6963
22-Jun-2024
12:20
RUCHA
PATEL



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061208.D Page 1
Report Date: 22-Jun-2024 12:21

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061208.D
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Inj Date : 12-JUN-2024 13:37
Operator : AP Inst ID: voa7.i
Smp Info : VSTD020
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240612.b\8260W.m
Meth Date : 22-Jun-2024 12:21 voa7.i Quant Type: ISTD
Cal Date : 12-JUN-2024 13:14 Cal File: P061207.D
Als bottle: 11 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	5.133	5.133	(1.000)	124327	50.0000	
2 Dichlorodifluoromethane	85	1.294	1.294	(0.252)	26161	20.0000	20.32
159 Dichlorofluoromethane	67	2.075	2.075	(0.404)	48376	20.0000	18.83
3 Chloromethane	50	1.451	1.451	(0.283)	40922	20.0000	20.63
4 Propionitrile	54	4.670	4.670	(0.910)	33066	200.000	197.56
5 Vinyl Chloride	62	1.535	1.535	(0.299)	35249	20.0000	20.53
6 Bromomethane	94	1.808	1.808	(0.352)	23141	20.0000	19.84
7 Chloroethane	64	1.898	1.898	(0.370)	21226	20.0000	20.26
8 Trichlorofluoromethane	101	2.113	2.113	(0.412)	45662	20.0000	20.31
9 Acrolein	56	2.519	2.519	(0.491)	1590	40.0000	34.13
10 Acetone	43	2.666	2.666	(0.520)	19214	40.0000	42.16
11 1,1-Dichloroethene	96	2.589	2.589	(0.505)	24417	20.0000	20.37
12 Isobutyl Alcohol	43	5.573	5.573	(1.086)	83712	400.000	417.01
13 Acetonitrile	39	2.956	2.956	(0.576)	35284	200.000	199.86
14 Allyl Chloride	41	2.959	2.959	(0.577)	74522	20.0000	19.70
15 Iodomethane	142	2.740	2.740	(0.534)	28182	40.0000	34.63
16 Acrylonitrile	53	3.380	3.380	(0.659)	17124	40.0000	40.69
17 Methylene Chloride	84	3.091	3.091	(0.602)	30059	20.0000	20.23
18 Methyl tert-butyl ether	73	3.380	3.380	(0.659)	60849	20.0000	19.11
19 Carbon Disulfide	76	2.795	2.795	(0.545)	157714	40.0000	40.46

20 trans-1,2-Dichloroethene	96	3.374	3.374 (0.657)	25463	20.0000	19.14
21 Vinyl Acetate	43	4.660	4.660 (0.908)	26974	40.0000	38.27

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
22	1,1-Dichloroethane	63	3.866	3.866	(0.753)	54427	20.0000	20.20
23	Chloroprene	53	3.965	3.965	(0.773)	44769	20.0000	19.19
24	2-Butanone	43	4.592	4.592	(0.895)	24892	40.0000	42.41
25	Methacrylonitrile	41	2.149	2.149	(0.419)	40265	20.0000	20.52(M)
26	2,2-Dichloropropane	77	4.538	4.538	(0.884)	45854	20.0000	19.95
27	cis-1,2-Dichloroethene	96	4.544	4.544	(0.885)	29226	20.0000	19.81
28	Chloroform	83	4.904	4.904	(0.956)	54121	20.0000	20.34
29	Bromochloromethane	128	4.801	4.801	(0.935)	14625	20.0000	20.37
$ 30	Dibromofluoromethane	113	5.072	5.072	(0.988)	27328	20.0000	20.27
31	1,1,1-Trichloroethane	97	5.072	5.072	(0.988)	46096	20.0000	20.04
32	1,1-Dichloropropene	75	5.245	5.245	(0.896)	40307	20.0000	19.99
33	1,2-Dichloroethane	62	5.490	5.490	(0.938)	45019	20.0000	19.91
34	Carbon Tetrachloride	117	5.236	5.236	(0.895)	39382	20.0000	19.38
$ 35	1,2-Dichloroethane-d4	65	5.419	5.419	(1.056)	36179	20.0000	20.23
* 36	1,4-Difluorobenzene	114	5.853	5.853	(1.000)	204746	50.0000	
37	Benzene	78	5.457	5.457	(0.932)	109367	20.0000	20.00
38	Trichloroethene	130	6.091	6.091	(1.041)	28788	20.0000	20.21
39	Bromodichloromethane	83	6.567	6.567	(1.122)	40275	20.0000	19.50
40	Methyl Methacrylate	41	6.432	6.432	(1.253)	26965	20.0000	20.25
41	2-Chloroethylvinyl ether	63	6.856	6.856	(1.171)	21639	40.0000	40.06(M)
42	1,2-Dichloropropane	63	6.309	6.309	(1.078)	31365	20.0000	19.86
43	2-Nitropropane	43	6.798	6.798	(1.324)	8546	20.0000	20.06
44	Dibromomethane	93	6.416	6.416	(1.096)	18165	20.0000	20.31
45	4-Methyl-2-Pentanone	43	7.126	7.126	(0.841)	59237	40.0000	41.72
46	cis-1,3-Dichloropropene	75	6.978	6.978	(1.192)	43881	20.0000	19.53
* 47	Chlorobenzene-d5	117	8.470	8.470	(1.000)	189070	50.0000	
$ 48	Toluene-d8	98	7.207	7.207	(0.851)	96641	20.0000	19.70
49	Ethyl Methacrylate	69	8.046	8.046	(1.375)	24489	20.0000	18.91
50	Toluene	91	7.264	7.264	(0.858)	114618	20.0000	20.18
51	trans-1,3-Dichloropropene	75	6.978	6.978	(1.192)	43881	20.0000	19.53
52	2-Hexanone	43	7.862	7.862	(0.928)	39097	40.0000	39.61
53	1,1,2-Trichloroethane	83	7.637	7.637	(0.902)	22801	20.0000	20.69
54	1,3-Dichloropropane	76	7.782	7.782	(0.919)	46447	20.0000	20.27
55	Dibromochloromethane	129	7.978	7.978	(0.942)	30210	20.0000	20.06
56	Tetrachloroethene	164	7.737	7.737	(0.913)	22116	20.0000	20.22
57	1,2-Dibromoethane	107	8.068	8.068	(0.953)	21812	20.0000	20.70
58	1-Chlorohexane	55	8.470	8.470	(1.447)	29232	20.0000	20.46
59	Chlorobenzene	112	8.493	8.493	(1.003)	74949	20.0000	20.20
60	1,1,1,2-Tetrachloroethane	131	8.563	8.563	(1.011)	26714	20.0000	19.66
61	Ethylbenzene	106	8.583	8.583	(1.013)	38647	20.0000	20.28
62	m,p-Xylenes	106	8.686	8.686	(1.025)	96983	40.0000	40.25
63	o-Xylene	106	9.026	9.026	(1.066)	47025	20.0000	20.25
64	Styrene	104	9.039	9.039	(1.067)	77439	20.0000	19.93
66	Bromoform	173	9.203	9.203	(1.087)	18623	20.0000	19.73
67	Isopropylbenzene	105	9.338	9.338	(1.102)	119139	20.0000	20.30
68	1,1,2,2-Tetrachloroethane	83	9.608	9.608	(0.919)	34384	20.0000	20.76
$ 69	4-Bromofluorobenzene	95	9.473	9.473	(1.118)	38666	20.0000	19.58
* 70	1,4-Dichlorobenzene-d4	152	10.457	10.457	(1.000)	93257	50.0000	
71	1,2,3-Trichloropropane	75	9.647	9.647	(0.923)	38498	20.0000	21.46
72	trans-1,4-Dichloro-2-butene	53	9.657	9.657	(1.140)	7571	20.0000	19.70
73	n-Propylbenzene	91	9.689	9.689	(0.927)	142065	20.0000	20.48
74	Bromobenzene	156	9.602	9.602	(0.918)	31875	20.0000	20.47

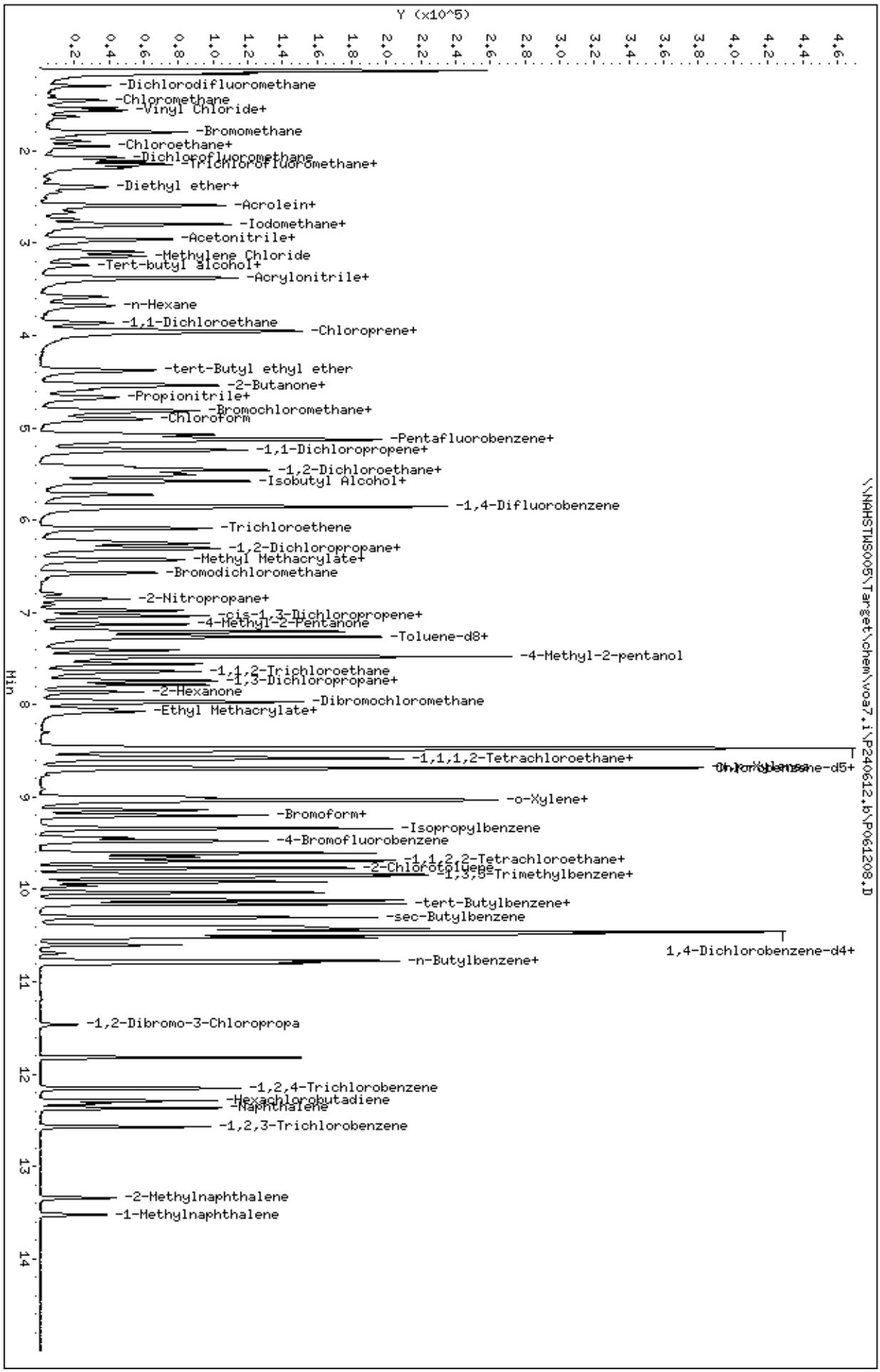
75	1,3,5-Trimethylbenzene	105	9.837	9.837 (0.941)	100061	20.0000	20.60
76	2-Chlorotoluene	91	9.766	9.766 (0.934)	89803	20.0000	20.84

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
77	4-Chlorotoluene	91	9.859	9.859	(0.943)	103804	20.0000	20.56
78	tert-Butylbenzene	119	10.116	10.116	(0.967)	86493	20.0000	21.05
79	1,2,4-Trimethylbenzene	105	10.158	10.158	(0.971)	100023	20.0000	20.33
81	sec-Butylbenzene	105	10.303	10.303	(0.985)	117646	20.0000	20.69
82	p-Isopropyltoluene	119	10.425	10.425	(0.997)	101939	20.0000	19.18
83	1,3-Dichlorobenzene	146	10.403	10.403	(0.995)	56080	20.0000	20.17
84	1,4-Dichlorobenzene	146	10.476	10.476	(1.002)	57142	20.0000	19.80
87	n-Butylbenzene	91	10.772	10.772	(1.030)	95043	20.0000	19.73
88	1,2-Dichlorobenzene	146	10.798	10.798	(1.033)	54117	20.0000	20.00
89	1,2-Dibromo-3-Chloropropane	75	11.460	11.460	(1.096)	5353	20.0000	19.37
90	1,2,4-Trichlorobenzene	180	12.155	12.155	(1.162)	31742	20.0000	19.26
91	Hexachlorobutadiene	225	12.287	12.287	(1.175)	16768	20.0000	22.11
92	Naphthalene	128	12.367	12.367	(1.183)	69635	20.0000	19.08
93	1,2,3-Trichlorobenzene	182	12.570	12.570	(1.202)	24650	20.0000	18.92(M)
146	Methyl acetate	43	2.994	2.994	(0.583)	20757	20.0000	20.64
138	Freon TF	101	2.589	2.589	(0.505)	25439	20.0000	20.31
139	Diethyl ether	59	2.380	2.380	(0.464)	16841	20.0000	20.21
140	1,3-Butadiene	54	1.564	1.564	(0.305)	14952	20.0000	20.01
141	Cyclohexane	56	5.113	5.113	(0.996)	40963	20.0000	19.83
147	Methylcyclohexane	83	6.252	6.252	(1.068)	37575	20.0000	19.43
132	n-Butanol	56	6.252	6.252	(1.218)	17130	400.000	411.72(T)
131	Methyl Acrylate	55	4.692	4.692	(0.914)	28780	20.0000	21.65
133	Ethyl Acrylate	55	6.248	6.248	(1.217)	68336	20.0000	19.40
136	n-Hexane	57	3.676	3.676	(0.716)	28414	20.0000	20.48
142	Tetrahydrofuran	42	4.859	4.859	(0.947)	9203	40.0000	42.12
148	Tert-butyl alcohol	59	3.239	3.239	(0.631)	38825	400.000	454.96
149	Isopropyl alcohol	45	2.814	2.814	(0.548)	32395	400.000	408.81
151	4-Methyl-2-pentanol	45	7.477	7.477	(0.883)	156868	400.000	414.94
166	1,2,3-Trimethylbenzene	105	10.518	10.518	(1.006)	89937	20.0000	20.44
167	Ethanol	45	2.310	2.310	(0.450)	5544	400.000	394.37
172	tert-Butyl formate	59	3.239	3.239	(0.631)	38825	40.0000	45.43
173	3,3-Dimethyl-1-butanol	57	8.042	8.042	(0.950)	34477	400.000	384.04
174	tert-Amyl methyl ether	73	5.580	5.580	(1.087)	68017	20.0000	20.04
175	tert-Butyl ethyl ether	59	4.377	4.377	(0.853)	73138	20.0000	20.12
157	2-Methylnaphthalene	142	13.338	13.338	(1.275)	20582	20.0000	17.13
156	Diisopropyl ether	45	3.946	3.946	(0.769)	89049	20.0000	20.10(T)
171	1-Methylnaphthalene	142	13.521	13.521	(1.293)	17884	20.0000	17.86
130	Ethyl Acetate	43	3.946	3.946	(0.769)	165195	20.0000	20.05(T)
176	tert-Amyl alcohol	59	5.515	5.515	(1.075)	35788	400.000	408.04(A)
160	Epichlorohydrin	57	6.914	6.914	(1.181)	5554	80.0000	73.52
161	Butyl acrylate	55	8.997	8.997	(1.062)	57895	20.0000	18.86
182	Isobutylene	56	1.949	1.949	(0.380)	3849	20.0000	20.96(AM)
183	Isopropyl Acetate	43	5.573	5.573	(0.952)	83712	20.0000	20.75(A)
184	n-Amyl acetate	43	9.194	9.194	(1.085)	54713	20.0000	19.01(A)
185	Acetaldehyde	44	1.631	1.631	(0.318)	36006	80.0000	89.75(A)

QC Flag Legend

T - Target compound detected outside RT window.
A - Target compound detected but, quantitated amount exceeded maximum amount.

M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa7,i\P240612,b\P061208,D
Date : 12-JUN-2024 13:37
Client ID: VSTD020
Sample Info: VSTD020
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Column phase: DB624

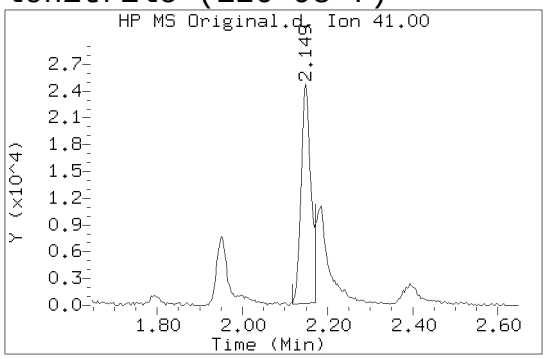
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Operator: AP
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LabSampID : VSTD020

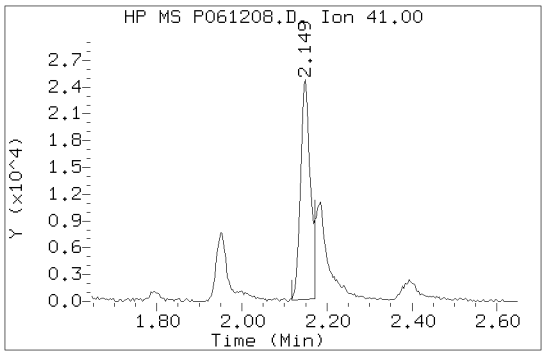
Methacrylonitrile (126-98-7)

Reason Code:

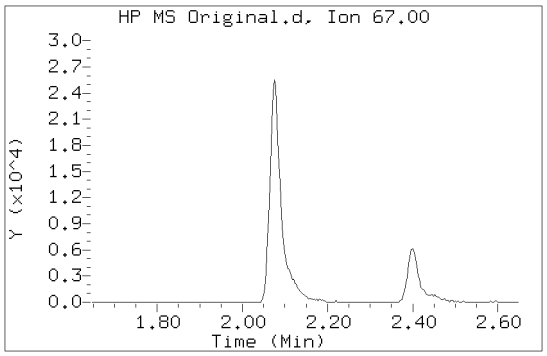
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22-Jun-2024
12:20
RUCHA
PATEL



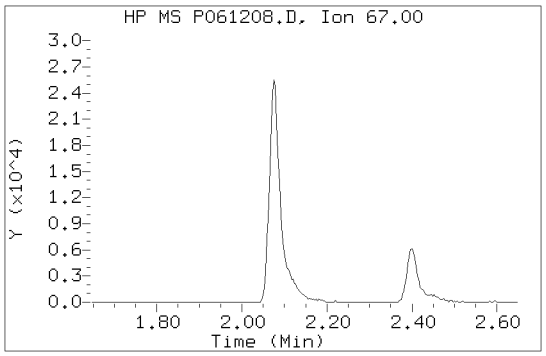
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PATEL



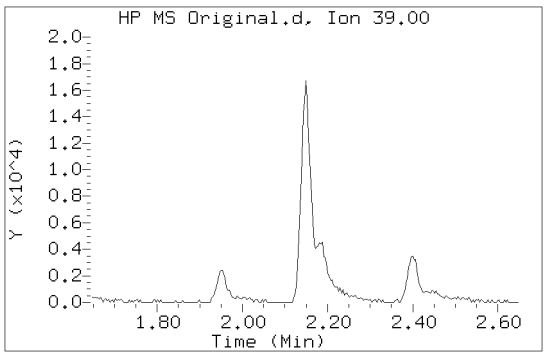
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12:20
RUCHA
PATEL



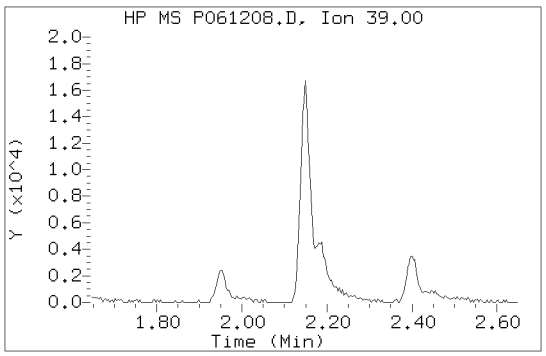
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HEIGHT
4256
22-Jun-2024
12:20
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BEFORE
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22-Jun-2024
12:20
RUCHA
PATEL



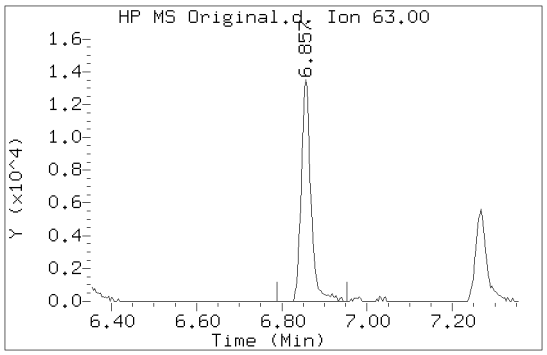
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12:20
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PATEL



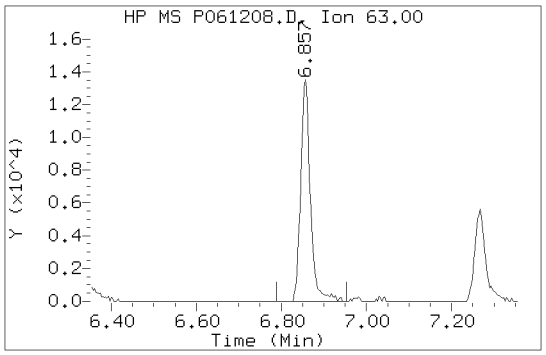
2-Chloroethylvinyl ether (110-75-8)

Reason Code:

BEFORE
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13516
22-Jun-2024
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RUCHA
PATEL



AFTER
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HEIGHT
13516
22-Jun-2024
12:20
RUCHA
PATEL



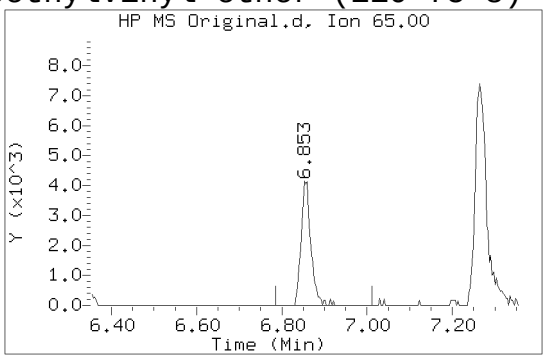
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Inj Date : 12-JUN-2024 13:37
InstruID : voa7.i
LabSampID : VSTD020

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

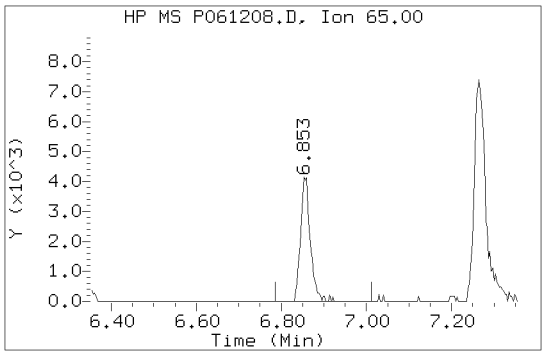
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22-Jun-2024
12:20
RUCHA
PATEL



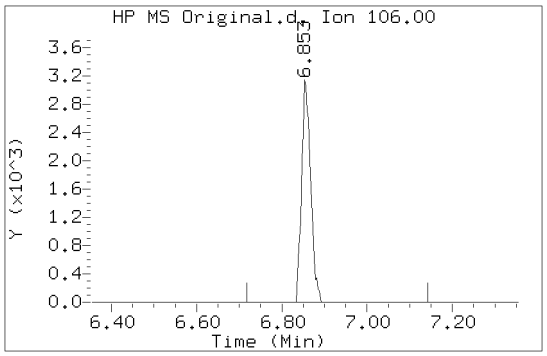
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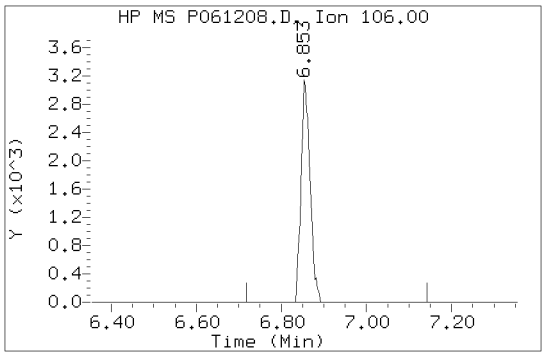
BEFORE

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HEIGHT
3146
22-Jun-2024
12:20
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PATEL



AFTER

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HEIGHT
3146
22-Jun-2024
12:20
RUCHA
PATEL

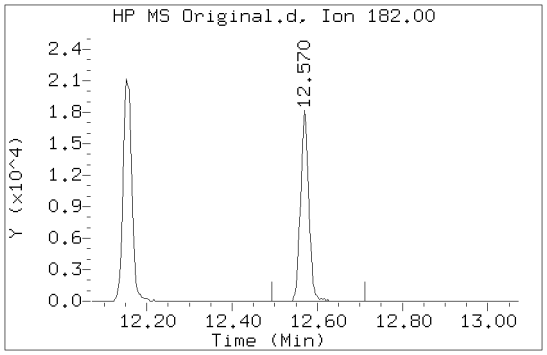


1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

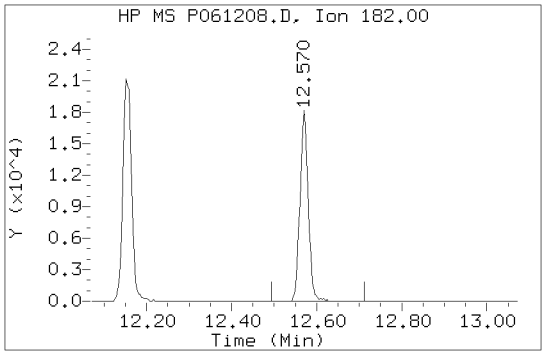
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12:20
RUCHA
PATEL



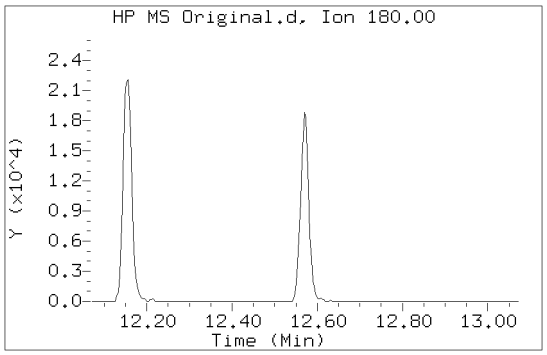
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22-Jun-2024
12:20
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PATEL



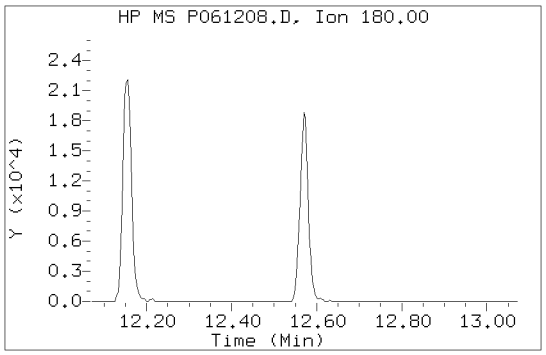
BEFORE

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HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

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HEIGHT
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22-Jun-2024
12:20
RUCHA
PATEL



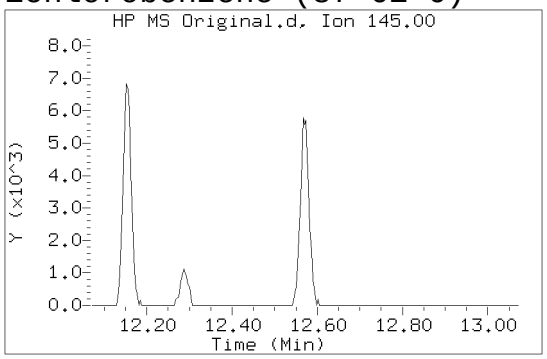
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Inj Date : 12-JUN-2024 13:37
InstruID : voa7.i
LabSampID : VSTD020

1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

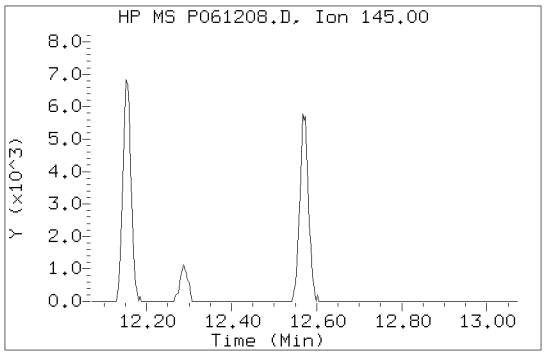
BEFORE

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22-Jun-2024
12:20
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PATEL



AFTER

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22-Jun-2024
12:20
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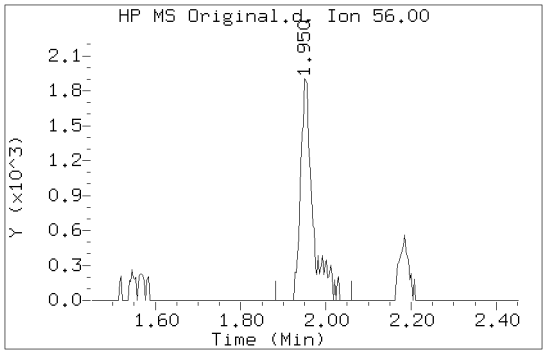


Isobutylene (115-11-7)

Reason Code:

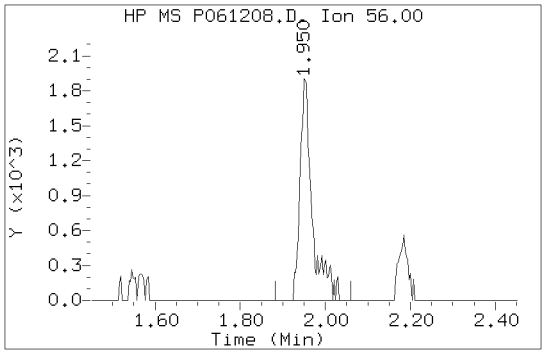
BEFORE

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1904
22-Jun-2024
12:20
RUCHA
PATEL



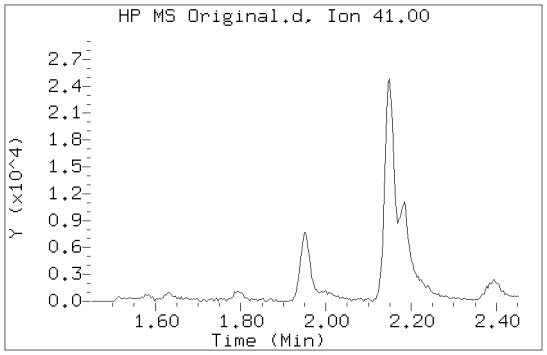
AFTER

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22-Jun-2024
12:20
RUCHA
PATEL



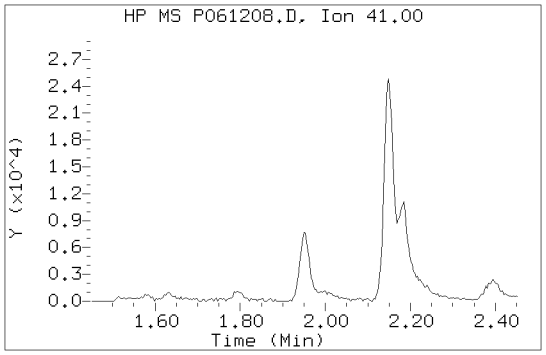
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22-Jun-2024
12:20
RUCHA
PATEL



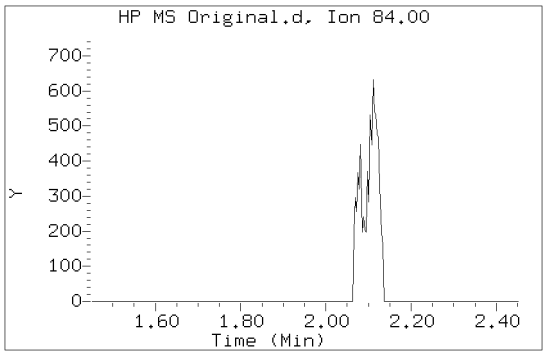
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22-Jun-2024
12:20
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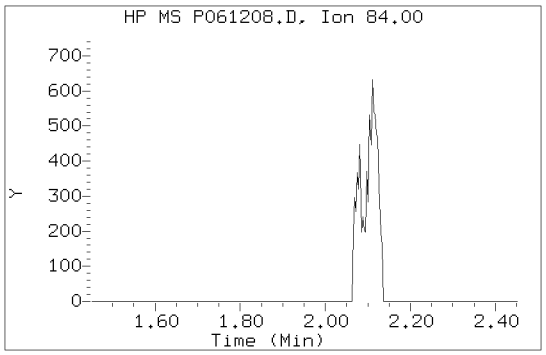
BEFORE

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22-Jun-2024
12:20
RUCHA
PATEL



AFTER

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AREA
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HEIGHT
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22-Jun-2024
12:20
RUCHA
PATEL



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061209.D Page 1
Report Date: 22-Jun-2024 12:21

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061209.D
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Inj Date : 12-JUN-2024 14:00
Operator : AP Inst ID: voa7.i
Smp Info : VSTD050
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240612.b\8260W.m
Meth Date : 22-Jun-2024 12:21 voa7.i Quant Type: ISTD
Cal Date : 12-JUN-2024 13:37 Cal File: P061208.D
Als bottle: 12 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	5.129	5.129	(1.000)	124506	50.0000	
2	Dichlorodifluoromethane	85	1.294	1.294	(0.252)	66335	50.0000	51.77
159	Dichlorofluoromethane	67	2.075	2.075	(0.405)	119813	50.0000	46.59
3	Chloromethane	50	1.451	1.451	(0.283)	100068	50.0000	51.49
4	Propionitrile	54	4.666	4.666	(0.910)	85378	500.000	517.68
5	Vinyl Chloride	62	1.535	1.535	(0.299)	86543	50.0000	50.55
6	Bromomethane	94	1.805	1.805	(0.352)	55461	50.0000	50.64
7	Chloroethane	64	1.895	1.895	(0.369)	52636	50.0000	50.80
8	Trichlorofluoromethane	101	2.110	2.110	(0.411)	115735	50.0000	51.02
9	Acrolein	56	2.519	2.519	(0.491)	4959	100.000	100.36
10	Acetone	43	2.667	2.667	(0.520)	44569	100.000	106.09
11	1,1-Dichloroethene	96	2.589	2.589	(0.505)	61840	50.0000	51.52
12	Isobutyl Alcohol	43	5.573	5.573	(1.086)	198746	1000.00	1010.51
13	Acetonitrile	39	2.959	2.959	(0.577)	89228	500.000	508.40
14	Allyl Chloride	41	2.956	2.956	(0.576)	193266	50.0000	51.66
15	Iodomethane	142	2.744	2.744	(0.535)	89328	100.000	95.68
16	Acrylonitrile	53	3.380	3.380	(0.659)	42984	100.000	102.67
17	Methylene Chloride	84	3.094	3.094	(0.603)	72694	50.0000	50.66
18	Methyl tert-butyl ether	73	3.377	3.377	(0.658)	160670	50.0000	48.87
19	Carbon Disulfide	76	2.795	2.795	(0.545)	392943	100.000	100.09

20 trans-1,2-Dichloroethene	96	3.377	3.377 (0.658)	64262	50.0000	48.24
21 Vinyl Acetate	43	4.657	4.657 (0.908)	67633	100.000	98.76

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
22	1,1-Dichloroethane	63	3.863	3.863	(0.753)	136347	50.0000	50.69
23	Chloroprene	53	3.962	3.962	(0.772)	114558	50.0000	49.04
24	2-Butanone	43	4.589	4.589	(0.895)	55817	100.000	98.39
25	Methacrylonitrile	41	2.149	2.149	(0.419)	95842	50.0000	47.23(M)
26	2,2-Dichloropropane	77	4.531	4.531	(0.883)	116989	50.0000	50.05
27	cis-1,2-Dichloroethene	96	4.541	4.541	(0.885)	73829	50.0000	49.95
28	Chloroform	83	4.904	4.904	(0.956)	133998	50.0000	50.71
29	Bromochloromethane	128	4.808	4.808	(0.937)	36515	50.0000	51.68
$ 30	Dibromofluoromethane	113	5.072	5.072	(0.989)	68008	50.0000	51.04
31	1,1,1-Trichloroethane	97	5.072	5.072	(0.989)	116966	50.0000	50.05
32	1,1-Dichloropropene	75	5.245	5.245	(0.896)	101818	50.0000	50.71
33	1,2-Dichloroethane	62	5.493	5.493	(0.938)	113617	50.0000	51.52
34	Carbon Tetrachloride	117	5.236	5.236	(0.895)	102107	50.0000	49.83
$ 35	1,2-Dichloroethane-d4	65	5.416	5.416	(1.056)	88709	50.0000	50.69
* 36	1,4-Difluorobenzene	114	5.853	5.853	(1.000)	202176	50.0000	
37	Benzene	78	5.457	5.457	(0.932)	271685	50.0000	50.79
38	Trichloroethene	130	6.091	6.091	(1.041)	71519	50.0000	50.86
39	Bromodichloromethane	83	6.570	6.570	(1.122)	102850	50.0000	50.36
40	Methyl Methacrylate	41	6.435	6.435	(1.254)	68215	50.0000	53.16
41	2-Chloroethylvinyl ether	63	6.856	6.856	(1.171)	55772	100.000	103.21(AM)
42	1,2-Dichloropropane	63	6.309	6.309	(1.078)	78317	50.0000	50.45
43	2-Nitropropane	43	6.801	6.801	(1.326)	21035	50.0000	48.45
44	Dibromomethane	93	6.416	6.416	(1.096)	44490	50.0000	50.61
45	4-Methyl-2-Pentanone	43	7.129	7.129	(0.842)	143348	100.000	106.52
46	cis-1,3-Dichloropropene	75	6.975	6.975	(1.192)	111444	50.0000	49.03
* 47	Chlorobenzene-d5	117	8.467	8.467	(1.000)	185304	50.0000	
$ 48	Toluene-d8	98	7.207	7.207	(0.851)	242880	50.0000	52.57
49	Ethyl Methacrylate	69	8.043	8.043	(1.374)	63036	50.0000	47.62
50	Toluene	91	7.268	7.268	(0.858)	286735	50.0000	52.83
51	trans-1,3-Dichloropropene	75	6.975	6.975	(1.192)	111444	50.0000	49.03
52	2-Hexanone	43	7.862	7.862	(0.929)	97829	100.000	104.32
53	1,1,2-Trichloroethane	83	7.637	7.637	(0.902)	55834	50.0000	53.50
54	1,3-Dichloropropane	76	7.782	7.782	(0.919)	115699	50.0000	53.18
55	Dibromochloromethane	129	7.975	7.975	(0.942)	75592	50.0000	51.53
56	Tetrachloroethene	164	7.737	7.737	(0.914)	55200	50.0000	52.10
57	1,2-Dibromoethane	107	8.075	8.075	(0.954)	52163	50.0000	51.97
58	1-Chlorohexane	55	8.470	8.470	(1.447)	69519	50.0000	51.91
59	Chlorobenzene	112	8.493	8.493	(1.003)	185207	50.0000	52.12
60	1,1,1,2-Tetrachloroethane	131	8.567	8.567	(1.012)	68429	50.0000	51.42
61	Ethylbenzene	106	8.583	8.583	(1.014)	95361	50.0000	51.76
62	m,p-Xylenes	106	8.682	8.682	(1.025)	243196	100.000	104.71
63	o-Xylene	106	9.026	9.026	(1.066)	116668	50.0000	52.28
64	Styrene	104	9.039	9.039	(1.068)	194776	50.0000	51.66
66	Bromoform	173	9.203	9.203	(1.087)	47726	50.0000	51.31
67	Isopropylbenzene	105	9.338	9.338	(1.103)	296410	50.0000	52.31
68	1,1,2,2-Tetrachloroethane	83	9.608	9.608	(0.919)	86043	50.0000	54.84
$ 69	4-Bromofluorobenzene	95	9.477	9.477	(1.119)	95402	50.0000	52.49
* 70	1,4-Dichlorobenzene-d4	152	10.457	10.457	(1.000)	92921	50.0000	
71	1,2,3-Trichloropropane	75	9.650	9.650	(0.923)	92496	50.0000	54.28
72	trans-1,4-Dichloro-2-butene	53	9.657	9.657	(1.140)	19015	50.0000	50.30
73	n-Propylbenzene	91	9.689	9.689	(0.927)	362847	50.0000	54.17
74	Bromobenzene	156	9.605	9.605	(0.919)	80532	50.0000	54.14

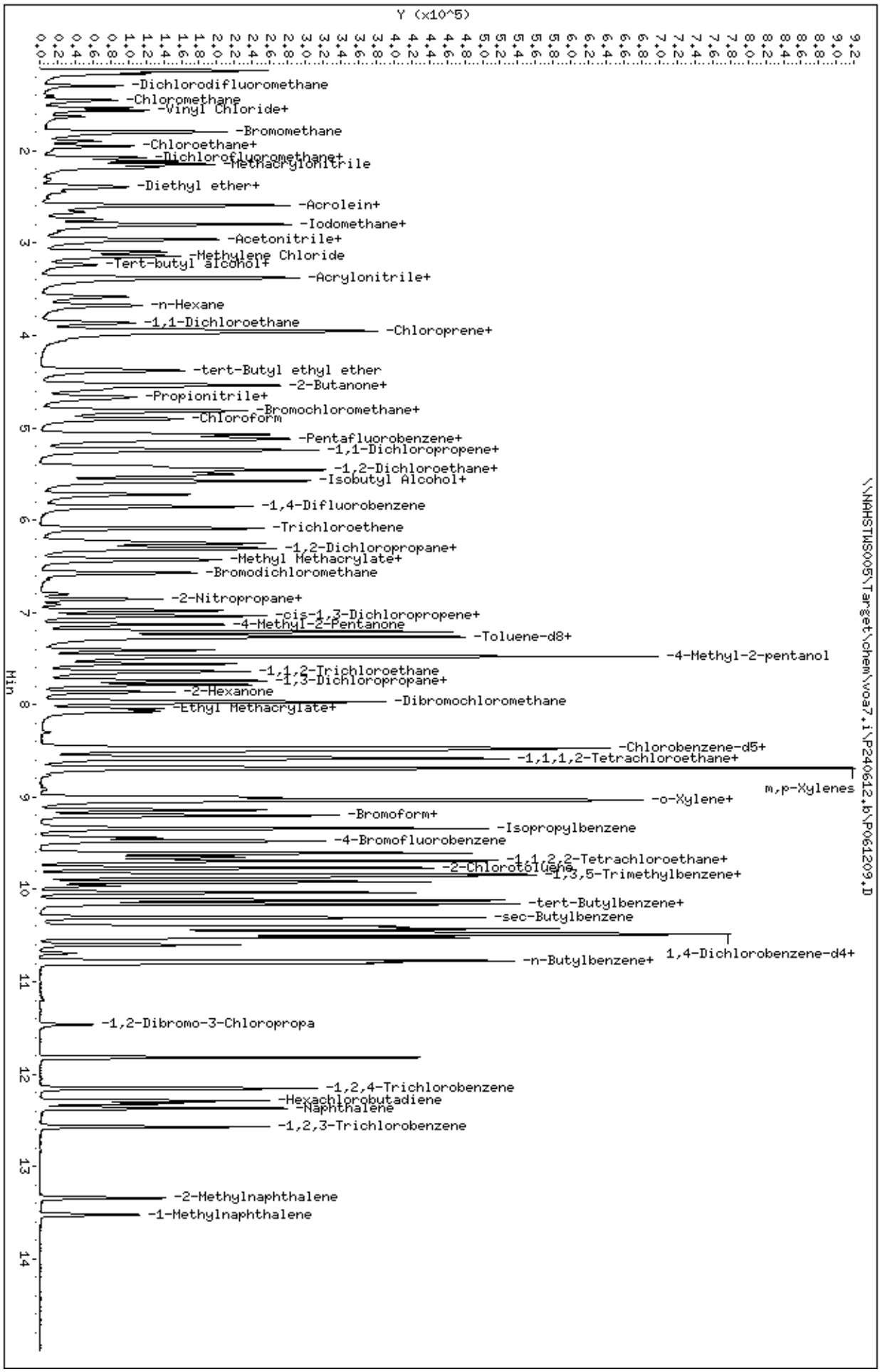
75	1,3,5-Trimethylbenzene	105	9.840	9.840 (0.941)	248908	50.0000	52.56
76	2-Chlorotoluene	91	9.766	9.766 (0.934)	221871	50.0000	53.71

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
77	4-Chlorotoluene	91	9.859	9.859	(0.943)	260307	50.0000	53.79
78	tert-Butylbenzene	119	10.116	10.116	(0.967)	211821	50.0000	53.47
79	1,2,4-Trimethylbenzene	105	10.158	10.158	(0.971)	254417	50.0000	53.54
81	sec-Butylbenzene	105	10.303	10.303	(0.985)	298413	50.0000	54.22
82	p-Isopropyltoluene	119	10.425	10.425	(0.997)	257879	50.0000	48.70
83	1,3-Dichlorobenzene	146	10.403	10.403	(0.995)	143335	50.0000	53.31
84	1,4-Dichlorobenzene	146	10.480	10.480	(1.002)	147752	50.0000	53.14
87	n-Butylbenzene	91	10.772	10.772	(1.030)	244882	50.0000	51.04
88	1,2-Dichlorobenzene	146	10.795	10.795	(1.032)	139489	50.0000	53.39
89	1,2-Dibromo-3-Chloropropane	75	11.467	11.467	(1.097)	13676	50.0000	49.67
90	1,2,4-Trichlorobenzene	180	12.155	12.155	(1.162)	84392	50.0000	51.24
91	Hexachlorobutadiene	225	12.290	12.290	(1.175)	42210	50.0000	55.86
92	Naphthalene	128	12.370	12.370	(1.183)	188539	50.0000	51.89
93	1,2,3-Trichlorobenzene	182	12.570	12.570	(1.202)	66724	50.0000	50.89(M)
146	Methyl acetate	43	2.995	2.995	(0.584)	48593	50.0000	49.34
138	Freon TF	101	2.593	2.593	(0.505)	64931	50.0000	50.83
139	Diethyl ether	59	2.380	2.380	(0.464)	42766	50.0000	50.70
140	1,3-Butadiene	54	1.564	1.564	(0.305)	37900	50.0000	49.39
141	Cyclohexane	56	5.110	5.110	(0.996)	103229	50.0000	50.36
147	Methylcyclohexane	83	6.248	6.248	(1.068)	100294	50.0000	50.83
132	n-Butanol	56	6.248	6.248	(1.218)	41434	1000.00	994.04(T)
131	Methyl Acrylate	55	4.689	4.689	(0.914)	67491	50.0000	51.80
133	Ethyl Acrylate	55	6.248	6.248	(1.218)	170753	50.0000	48.42(M)
136	n-Hexane	57	3.676	3.676	(0.717)	71474	50.0000	49.85
142	Tetrahydrofuran	42	4.856	4.856	(0.947)	21782	100.000	98.62
148	Tert-butyl alcohol	59	3.236	3.236	(0.631)	89417	1000.00	1077.61
149	Isopropyl alcohol	45	2.814	2.814	(0.549)	81009	1000.00	1023.96
151	4-Methyl-2-pentanol	45	7.477	7.477	(0.883)	352297	1000.00	946.47
166	1,2,3-Trimethylbenzene	105	10.518	10.518	(1.006)	232553	50.0000	55.35
167	Ethanol	45	2.313	2.313	(0.451)	14655	1000.00	1156.87
172	tert-Butyl formate	59	3.236	3.236	(0.631)	89417	100.000	107.75
173	3,3-Dimethyl-1-butanol	57	8.043	8.043	(0.950)	86895	1000.00	975.46
174	tert-Amyl methyl ether	73	5.580	5.580	(1.088)	176854	50.0000	52.76
175	tert-Butyl ethyl ether	59	4.380	4.380	(0.854)	188058	50.0000	51.65
157	2-Methylnaphthalene	142	13.341	13.341	(1.276)	64642	50.0000	47.49
156	Diisopropyl ether	45	3.949	3.949	(0.770)	227369	50.0000	50.97
171	1-Methylnaphthalene	142	13.521	13.521	(1.293)	52475	50.0000	47.45
130	Ethyl Acetate	43	3.946	3.946	(0.769)	413703	50.0000	49.41
176	tert-Amyl alcohol	59	5.512	5.512	(1.075)	89002	1000.00	1076.55(A)
160	Epichlorohydrin	57	6.911	6.911	(1.181)	16160	200.000	212.62
161	Butyl acrylate	55	8.997	8.997	(1.063)	154014	50.0000	50.61
182	Isobutylene	56	1.953	1.953	(0.381)	9733	50.0000	52.82(AM)
183	Isopropyl Acetate	43	5.573	5.573	(0.952)	198746	50.0000	51.29(A)
184	n-Amyl acetate	43	9.194	9.194	(1.086)	138814	50.0000	47.71(A)
185	Acetaldehyde	44	1.628	1.628	(0.317)	59293	200.000	186.62(A)

QC Flag Legend

T - Target compound detected outside RT window.
A - Target compound detected but, quantitated amount
    exceeded maximum amount.

M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061209.D
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Client ID: VSTD050
Sample Info: VSTD050
Purge Volume: 5.0
Column phase: DB624

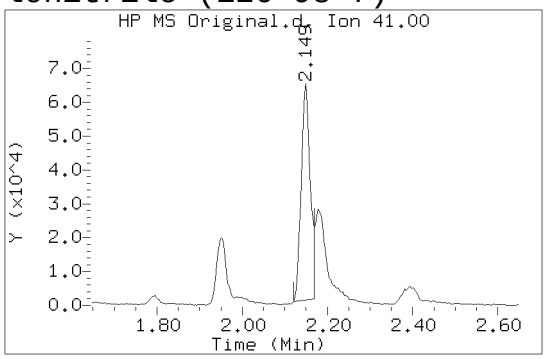
Instrument: voa7.i
Operator: AP
Column diameter: 0.18

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InstruID : voa7.i
LabSampID : VSTD050

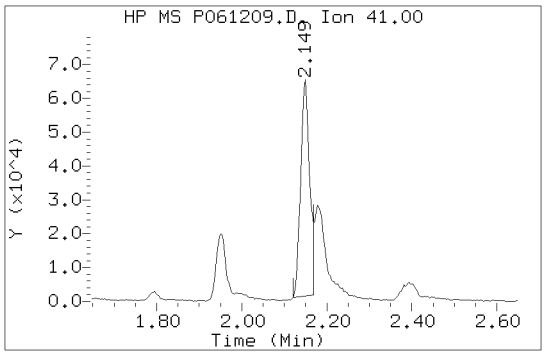
Methacrylonitrile (126-98-7)

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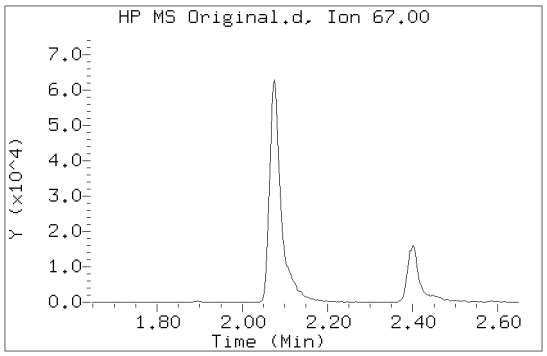
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HEIGHT
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22-Jun-2024
12:20
RUCHA
PATEL



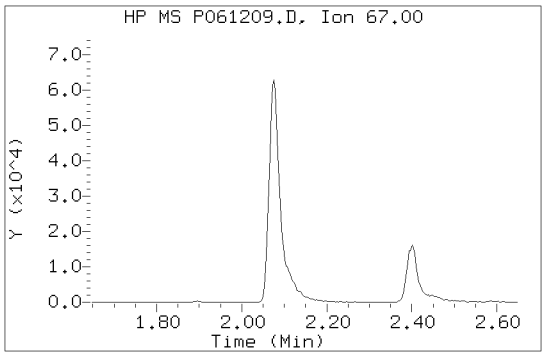
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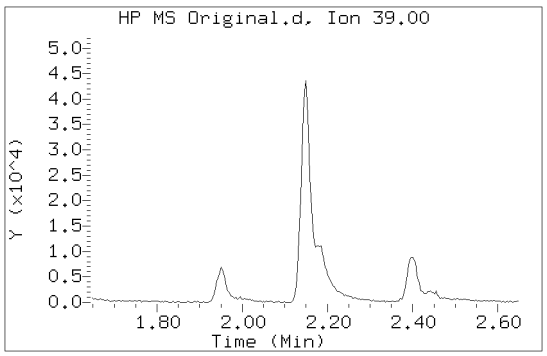
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12:20
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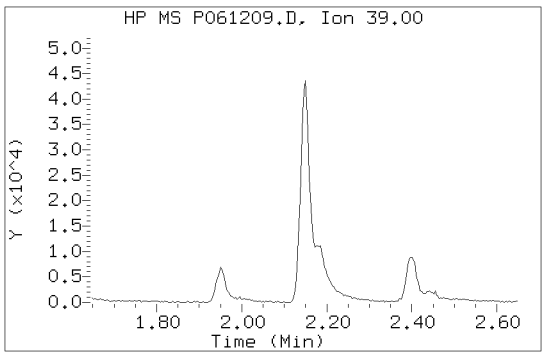
AFTER
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22239
HEIGHT
11222
22-Jun-2024
12:20
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BEFORE
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HEIGHT
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22-Jun-2024
12:20
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PATEL



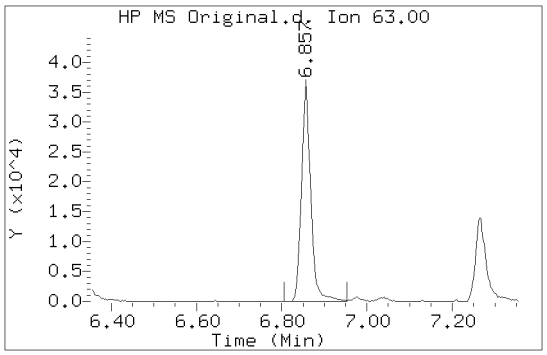
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12:20
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PATEL



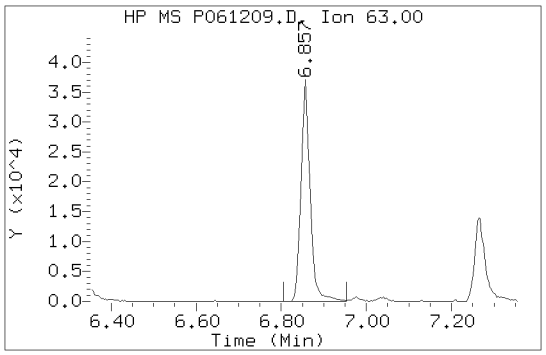
2-Chloroethylvinyl ether (110-75-8)

Reason Code:

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22-Jun-2024
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AFTER
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HEIGHT
37080
22-Jun-2024
12:20
RUCHA
PATEL



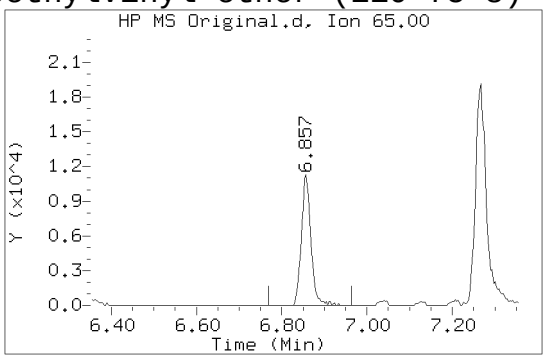
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Inj Date : 12-JUN-2024 14:00
InstruID : voa7.i
LabSampID : VSTD050

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

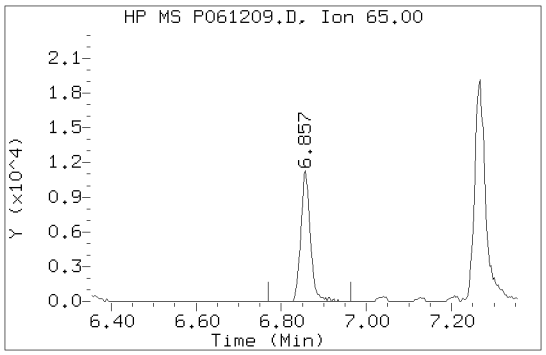
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12:20
RUCHA
PATEL



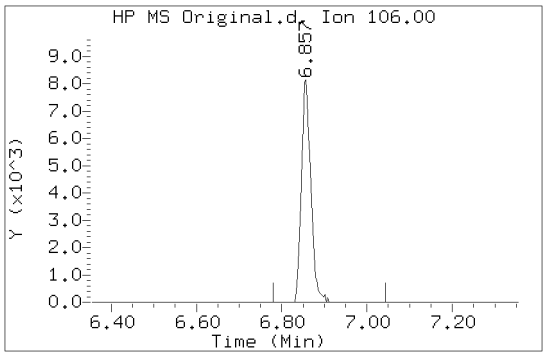
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12:20
RUCHA
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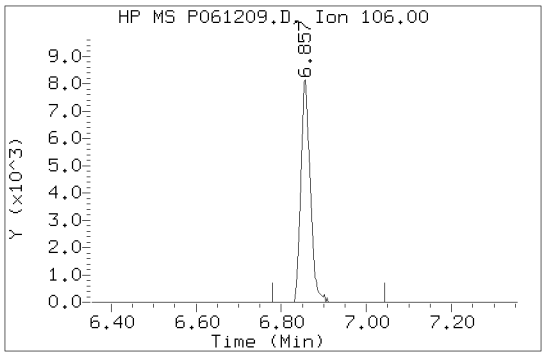
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22-Jun-2024
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AFTER

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12:20
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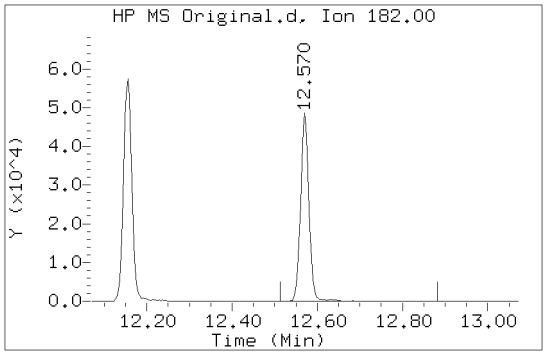


1,2,3-Trichlorobenzene (87-61-6)

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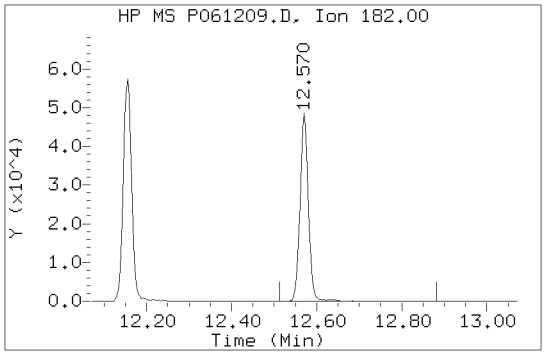
BEFORE

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12:20
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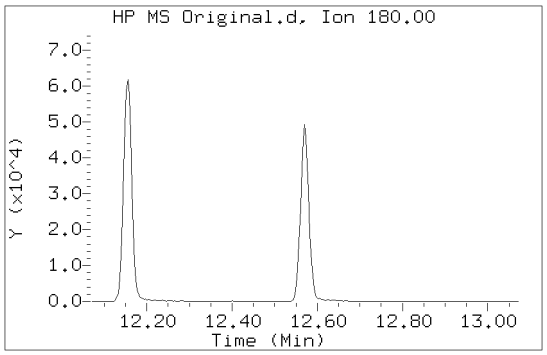
AFTER

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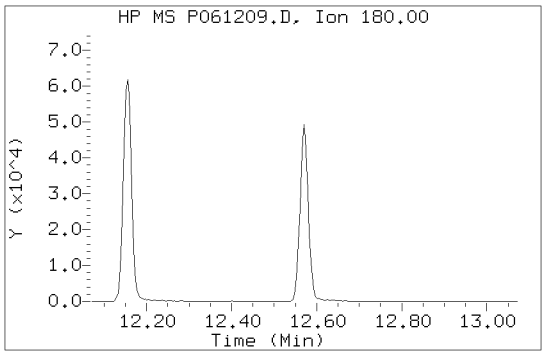
BEFORE

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22-Jun-2024
12:20
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PATEL



AFTER

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22-Jun-2024
12:20
RUCHA
PATEL



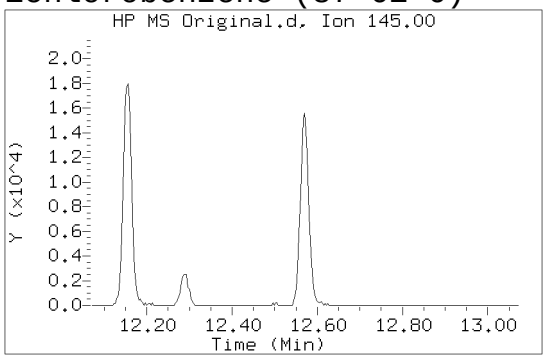
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Inj Date : 12-JUN-2024 14:00
InstruID : voa7.i
LabSampID : VSTD050

1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

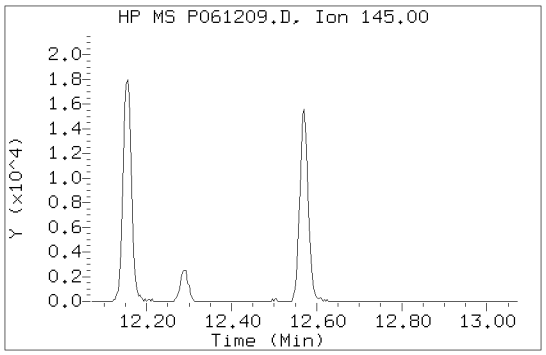
BEFORE

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22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
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HEIGHT
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22-Jun-2024
12:20
RUCHA
PATEL

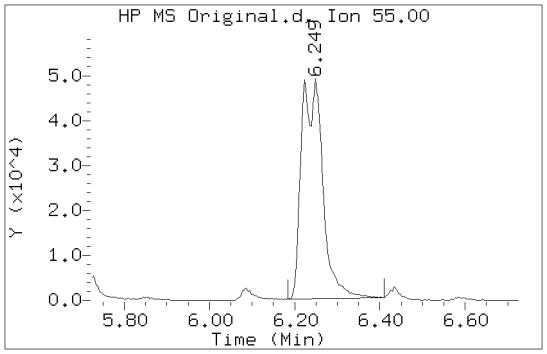


Ethyl Acrylate (140-88-5)

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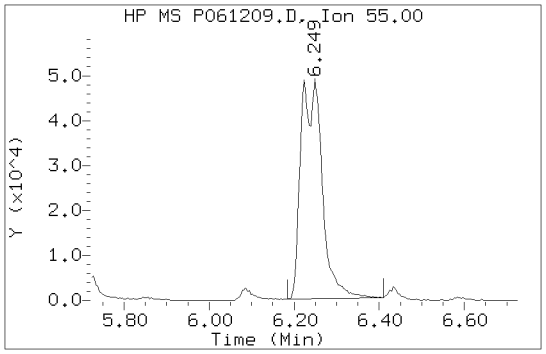
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22-Jun-2024
12:20
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PATEL



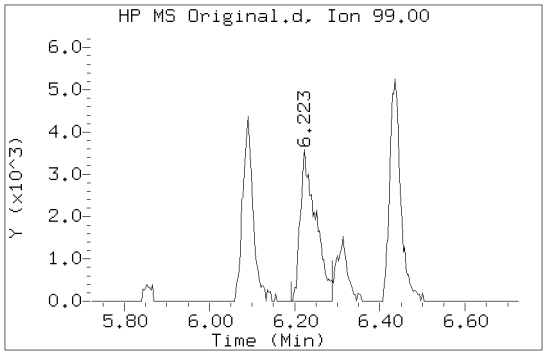
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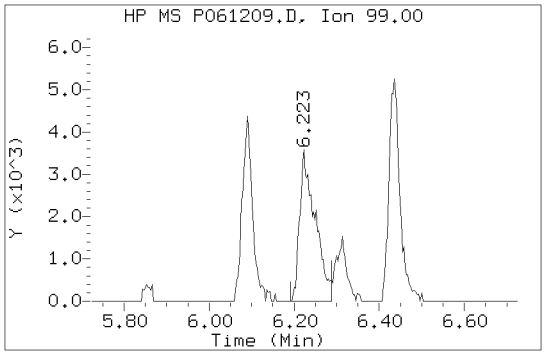
BEFORE

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22-Jun-2024
12:20
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PATEL



AFTER

MASS
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3592
22-Jun-2024
12:20
RUCHA
PATEL

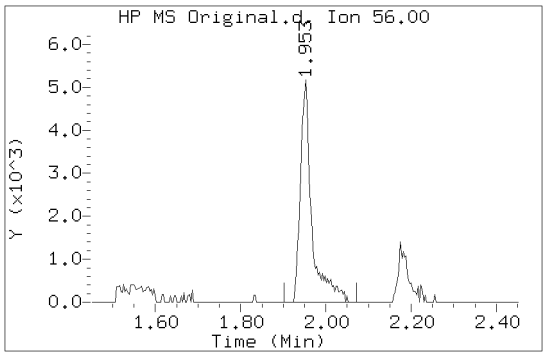


Isobutylene (115-11-7)

Reason Code:

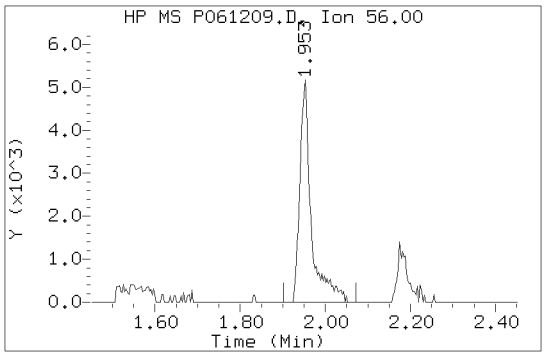
BEFORE

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22-Jun-2024
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PATEL



AFTER

MASS
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9733
HEIGHT
5174
22-Jun-2024
12:20
RUCHA
PATEL



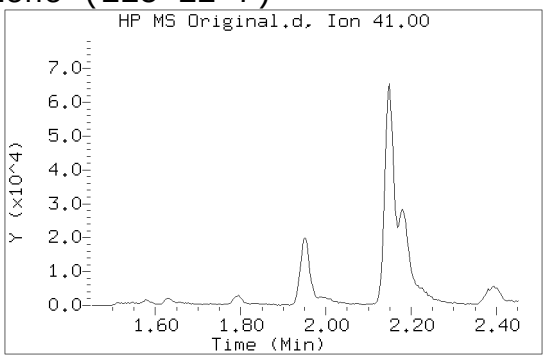
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Inj Date : 12-JUN-2024 14:00
InstruID : voa7.i
LabSampID : VSTD050

Isobutylene (115-11-7)

Reason Code:

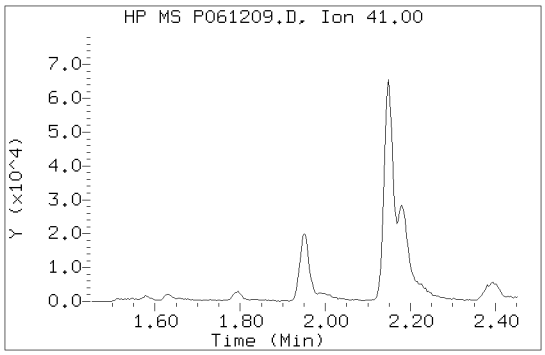
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22-Jun-2024
12:20
RUCHA
PATEL



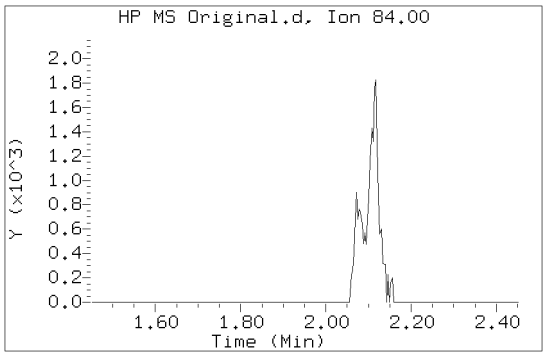
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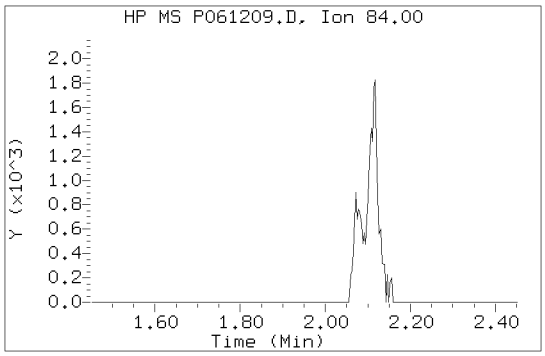
BEFORE

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22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
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AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061210.D Page 1
Report Date: 22-Jun-2024 12:21

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061210.D
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Inj Date : 12-JUN-2024 14:23
Operator : AP Inst ID: voa7.i
Smp Info : VSTD100
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240612.b\8260W.m
Meth Date : 22-Jun-2024 12:21 voa7.i Quant Type: ISTD
Cal Date : 12-JUN-2024 14:00 Cal File: P061209.D
Als bottle: 13 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	5.133	5.133	(1.000)	127934	50.0000	
2 Dichlorodifluoromethane	85	1.297	1.297	(0.253)	128579	100.000	97.84
159 Dichlorofluoromethane	67	2.075	2.075	(0.404)	234779	100.000	88.84
3 Chloromethane	50	1.451	1.451	(0.283)	194087	100.000	97.88
4 Propionitrile	54	4.673	4.673	(0.910)	165344	1000.00	980.34
5 Vinyl Chloride	62	1.535	1.535	(0.299)	171559	100.000	97.67
6 Bromomethane	94	1.802	1.802	(0.351)	104925	100.000	99.58
7 Chloroethane	64	1.892	1.892	(0.369)	103518	100.000	97.61
8 Trichlorofluoromethane	101	2.114	2.114	(0.412)	227811	100.000	97.52
9 Acrolein	56	2.519	2.519	(0.491)	9979	200.000	201.86
10 Acetone	43	2.667	2.667	(0.520)	85875	200.000	204.54
11 1,1-Dichloroethene	96	2.589	2.589	(0.505)	124922	100.000	101.30
12 Isobutyl Alcohol	43	5.573	5.573	(1.086)	394187	2000.00	1965.35
13 Acetonitrile	39	2.959	2.959	(0.577)	174954	1000.00	972.36
14 Allyl Chloride	41	2.959	2.959	(0.577)	374963	100.000	97.90
15 Iodomethane	142	2.740	2.740	(0.534)	215220	200.000	204.08
16 Acrylonitrile	53	3.380	3.380	(0.659)	84159	200.000	196.03
17 Methylene Chloride	84	3.091	3.091	(0.602)	143145	100.000	98.25
18 Methyl tert-butyl ether	73	3.380	3.380	(0.659)	325589	100.000	95.48
19 Carbon Disulfide	76	2.795	2.795	(0.545)	780378	200.000	193.09

20 trans-1,2-Dichloroethene	96	3.374	3.374 (0.657)	128582	100.000	93.94	
21 Vinyl Acetate	43	4.660	4.660 (0.908)	137107	200.000	196.75	

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061210.D Page 2
Report Date: 22-Jun-2024 12:21

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
22	1,1-Dichloroethane	63	3.863	3.863	(0.753)	270479	100.000	97.97
23	Chloroprene	53	3.962	3.962	(0.772)	234087	100.000	97.52
24	2-Butanone	43	4.589	4.589	(0.894)	109808	200.000	190.92
25	Methacrylonitrile	41	2.149	2.149	(0.419)	196612	100.000	93.16(M)
26	2,2-Dichloropropane	77	4.531	4.531	(0.883)	235614	100.000	97.62
27	cis-1,2-Dichloroethene	96	4.544	4.544	(0.885)	148465	100.000	97.74
28	Chloroform	83	4.904	4.904	(0.956)	266384	100.000	98.38
29	Bromochloromethane	128	4.808	4.808	(0.937)	72145	100.000	99.94
$ 30	Dibromofluoromethane	113	5.075	5.075	(0.989)	130301	100.000	95.55
31	1,1,1-Trichloroethane	97	5.072	5.072	(0.988)	235912	100.000	97.78
32	1,1-Dichloropropene	75	5.245	5.245	(0.896)	202600	100.000	97.46
33	1,2-Dichloroethane	62	5.493	5.493	(0.938)	223991	100.000	98.72
34	Carbon Tetrachloride	117	5.232	5.232	(0.894)	208133	100.000	97.72
$ 35	1,2-Dichloroethane-d4	65	5.419	5.419	(1.056)	172280	100.000	96.51
* 36	1,4-Difluorobenzene	114	5.853	5.853	(1.000)	208785	50.0000	
37	Benzene	78	5.457	5.457	(0.932)	542298	100.000	98.48
38	Trichloroethene	130	6.088	6.088	(1.040)	142495	100.000	98.13
39	Bromodichloromethane	83	6.570	6.570	(1.122)	206546	100.000	97.88
40	Methyl Methacrylate	41	6.432	6.432	(1.253)	129664	100.000	99.45
41	2-Chloroethylvinyl ether	63	6.856	6.856	(1.171)	114619	200.000	197.97(AM)
42	1,2-Dichloropropane	63	6.309	6.309	(1.078)	157219	100.000	98.21
43	2-Nitropropane	43	6.801	6.801	(1.325)	42166	100.000	93.97
44	Dibromomethane	93	6.419	6.419	(1.097)	88641	100.000	97.79
45	4-Methyl-2-Pentanone	43	7.129	7.129	(0.842)	274193	200.000	194.93
46	cis-1,3-Dichloropropene	75	6.978	6.978	(1.192)	227034	100.000	95.99
* 47	Chlorobenzene-d5	117	8.467	8.467	(1.000)	195643	50.0000	
$ 48	Toluene-d8	98	7.207	7.207	(0.851)	476337	100.000	98.77
49	Ethyl Methacrylate	69	8.043	8.043	(1.374)	147894	100.000	101.75
50	Toluene	91	7.264	7.264	(0.858)	569573	100.000	100.15
51	trans-1,3-Dichloropropene	75	6.978	6.978	(1.192)	227034	100.000	95.99
52	2-Hexanone	43	7.862	7.862	(0.929)	196592	200.000	200.42
53	1,1,2-Trichloroethane	83	7.641	7.641	(0.902)	108669	100.000	99.63
54	1,3-Dichloropropane	76	7.782	7.782	(0.919)	226498	100.000	99.54
55	Dibromochloromethane	129	7.978	7.978	(0.942)	152411	100.000	98.60
56	Tetrachloroethene	164	7.740	7.740	(0.914)	112904	100.000	101.29
57	1,2-Dibromoethane	107	8.071	8.071	(0.953)	101409	100.000	96.55
58	1-Chlorohexane	55	8.470	8.470	(1.447)	134896	100.000	99.17
59	Chlorobenzene	112	8.493	8.493	(1.003)	370792	100.000	99.53
60	1,1,1,2-Tetrachloroethane	131	8.563	8.563	(1.011)	137821	100.000	98.11
61	Ethylbenzene	106	8.586	8.586	(1.014)	193263	100.000	99.78
62	m,p-Xylenes	106	8.686	8.686	(1.026)	483615	200.000	198.20
63	o-Xylene	106	9.026	9.026	(1.066)	232496	100.000	99.27
64	Styrene	104	9.039	9.039	(1.068)	392368	100.000	98.88
66	Bromoform	173	9.206	9.206	(1.087)	95800	100.000	97.40
67	Isopropylbenzene	105	9.338	9.338	(1.103)	592971	100.000	99.56
68	1,1,2,2-Tetrachloroethane	83	9.608	9.608	(0.919)	169960	100.000	99.31
$ 69	4-Bromofluorobenzene	95	9.477	9.477	(1.119)	184164	100.000	97.71
* 70	1,4-Dichlorobenzene-d4	152	10.457	10.457	(1.000)	102816	50.0000	
71	1,2,3-Trichloropropane	75	9.650	9.650	(0.923)	182982	100.000	98.46
72	trans-1,4-Dichloro-2-butene	53	9.660	9.660	(1.141)	38646	100.000	96.72
73	n-Propylbenzene	91	9.689	9.689	(0.927)	733028	100.000	99.78
74	Bromobenzene	156	9.605	9.605	(0.919)	161244	100.000	99.14

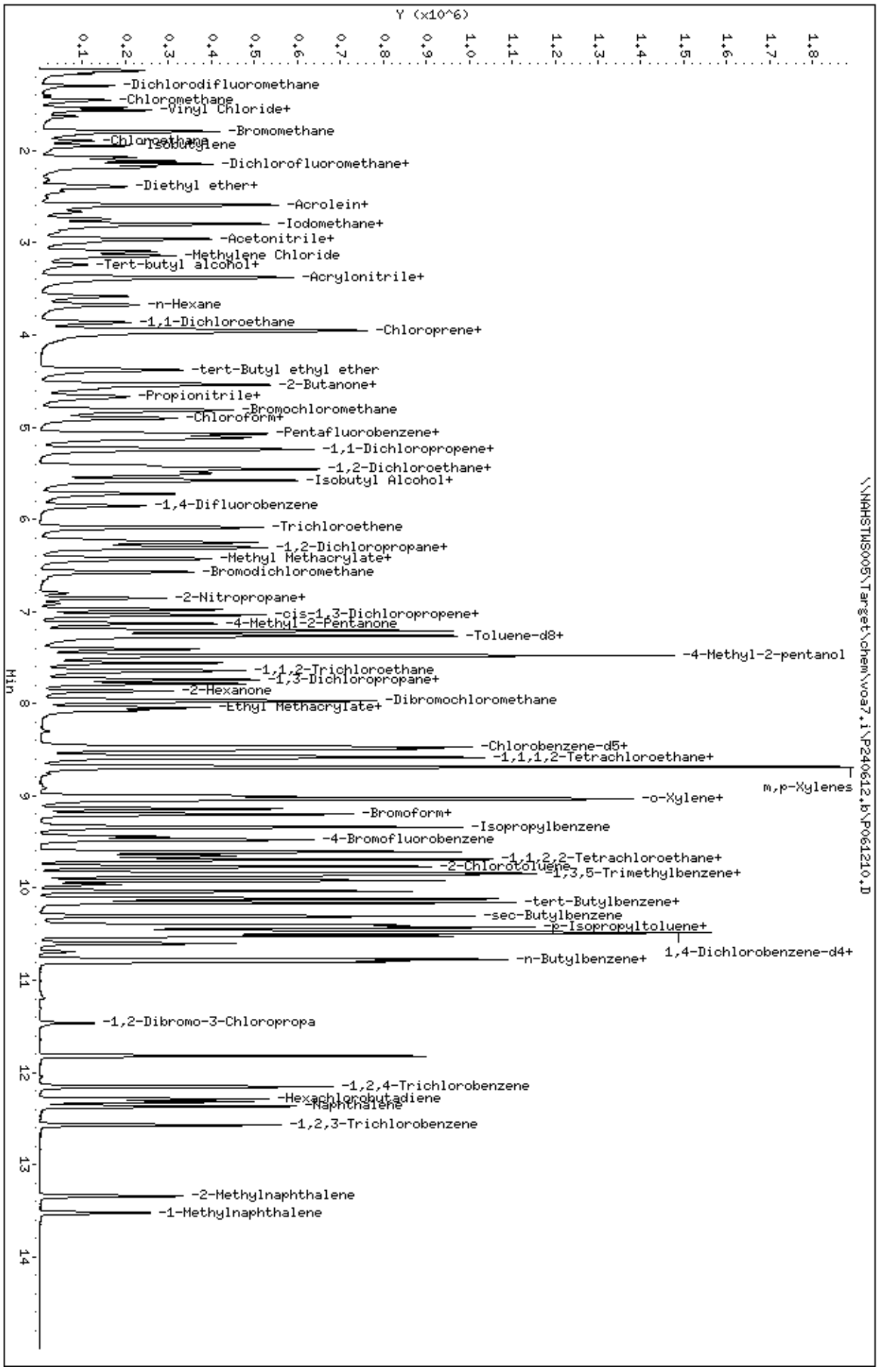
75	1,3,5-Trimethylbenzene	105	9.840	9.840 (0.941)	513912	100.000	98.74
76	2-Chlorotoluene	91	9.766	9.766 (0.934)	450703	100.000	99.75

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
77	4-Chlorotoluene	91	9.859	9.859	(0.943)	528982	100.000	99.91
78	tert-Butylbenzene	119	10.116	10.116	(0.967)	434310	100.000	100.10
79	1,2,4-Trimethylbenzene	105	10.158	10.158	(0.971)	518063	100.000	99.40
81	sec-Butylbenzene	105	10.303	10.303	(0.985)	603134	100.000	99.87
82	p-Isopropyltoluene	119	10.425	10.425	(0.997)	531568	100.000	90.74
83	1,3-Dichlorobenzene	146	10.403	10.403	(0.995)	293977	100.000	99.66
84	1,4-Dichlorobenzene	146	10.480	10.480	(1.002)	304950	100.000	100.07
87	n-Butylbenzene	91	10.772	10.772	(1.030)	491606	100.000	92.60
88	1,2-Dichlorobenzene	146	10.798	10.798	(1.033)	287218	100.000	100.25
89	1,2-Dibromo-3-Chloropropane	75	11.464	11.464	(1.096)	28279	100.000	92.83
90	1,2,4-Trichlorobenzene	180	12.155	12.155	(1.162)	182539	100.000	100.07
91	Hexachlorobutadiene	225	12.287	12.287	(1.175)	88584	100.000	105.96
92	Naphthalene	128	12.367	12.367	(1.183)	404214	100.000	100.56
93	1,2,3-Trichlorobenzene	182	12.570	12.570	(1.202)	145097	100.000	99.72(M)
146	Methyl acetate	43	2.995	2.995	(0.583)	99106	100.000	98.73
138	Freon TF	101	2.593	2.593	(0.505)	128860	100.000	97.61
139	Diethyl ether	59	2.377	2.377	(0.463)	84057	100.000	96.65
140	1,3-Butadiene	54	1.564	1.564	(0.305)	78720	100.000	99.01
141	Cyclohexane	56	5.113	5.113	(0.996)	205871	100.000	98.04
147	Methylcyclohexane	83	6.252	6.252	(1.068)	197270	100.000	95.91
132	n-Butanol	56	6.252	6.252	(1.218)	84786	2000.00	1979.30(T)
131	Methyl Acrylate	55	4.689	4.689	(0.914)	128500	100.000	96.67
133	Ethyl Acrylate	55	6.252	6.252	(1.218)	339601	100.000	93.73
136	n-Hexane	57	3.676	3.676	(0.716)	143496	100.000	96.40
142	Tetrahydrofuran	42	4.863	4.863	(0.947)	43971	200.000	193.09
148	Tert-butyl alcohol	59	3.239	3.239	(0.631)	166587	2000.00	1924.12
149	Isopropyl alcohol	45	2.818	2.818	(0.549)	152531	2000.00	1878.10
151	4-Methyl-2-pentanol	45	7.477	7.477	(0.883)	740664	2000.00	1881.36
166	1,2,3-Trimethylbenzene	105	10.518	10.518	(1.006)	455398	100.000	99.08
167	Ethanol	45	2.319	2.319	(0.452)	26045	2000.00	2052.48
172	tert-Butyl formate	59	3.239	3.239	(0.631)	166587	200.000	192.45
173	3,3-Dimethyl-1-butanol	57	8.043	8.043	(0.950)	199514	2000.00	2018.53
174	tert-Amyl methyl ether	73	5.580	5.580	(1.087)	344051	100.000	98.03
175	tert-Butyl ethyl ether	59	4.380	4.380	(0.853)	378160	100.000	98.88
157	2-Methylnaphthalene	142	13.341	13.341	(1.276)	149837	100.000	96.18
156	Diisopropyl ether	45	3.949	3.949	(0.769)	445729	100.000	97.07
171	1-Methylnaphthalene	142	13.525	13.525	(1.293)	120423	100.000	95.59
130	Ethyl Acetate	43	3.946	3.946	(0.769)	811897	100.000	93.92
176	tert-Amyl alcohol	59	5.512	5.512	(1.074)	157877	2000.00	1889.44(A)
160	Epichlorohydrin	57	6.914	6.914	(1.181)	31938	400.000	392.91
161	Butyl acrylate	55	8.997	8.997	(1.063)	316497	100.000	98.17
182	Isobutylene	56	1.950	1.950	(0.380)	18786	100.000	99.15(AM)
183	Isopropyl Acetate	43	5.573	5.573	(0.952)	394187	100.000	99.42(A)
184	n-Amyl acetate	43	9.194	9.194	(1.086)	297368	100.000	95.84(A)
185	Acetaldehyde	44	1.628	1.628	(0.317)	102104	400.000	393.52(A)

QC Flag Legend

T - Target compound detected outside RT window.
A - Target compound detected but, quantitated amount
    exceeded maximum amount.

M - Compound response manually integrated.



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Client ID: VSTD100
Sample Info: VSTD100
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Column phase: DB624

Instrument: voa7.i
Operator: AP
Column diameter: 0.18

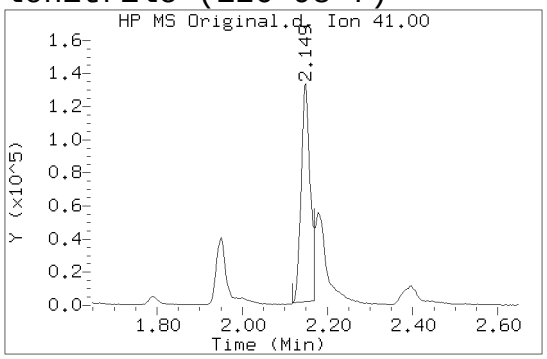
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Methacrylonitrile (126-98-7)

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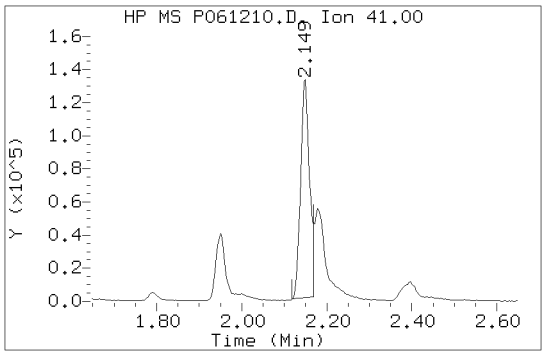
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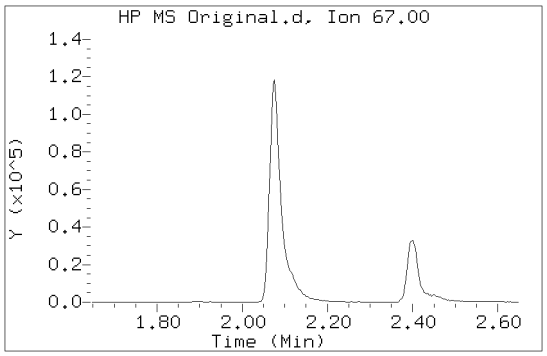
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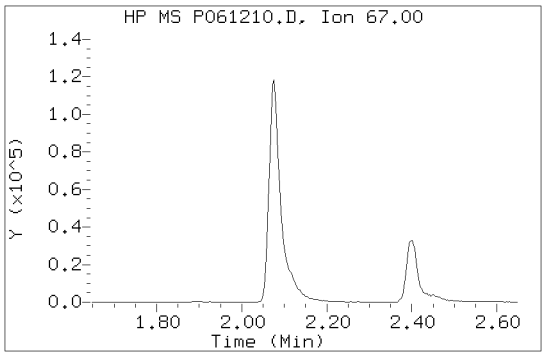
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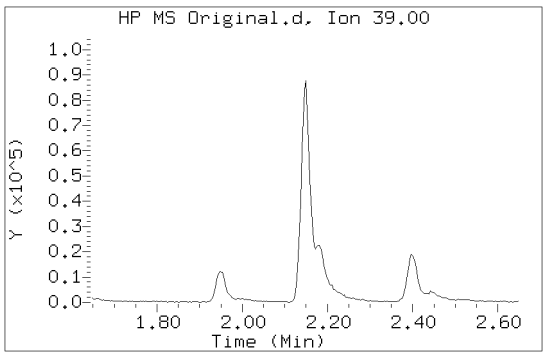
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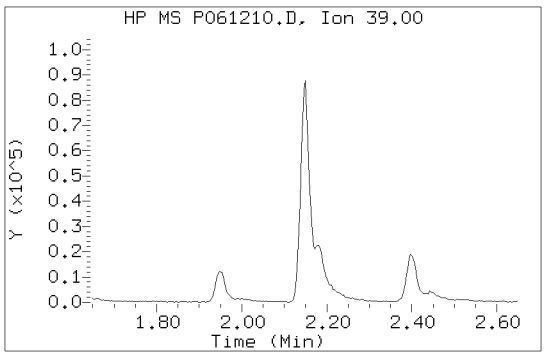
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AFTER

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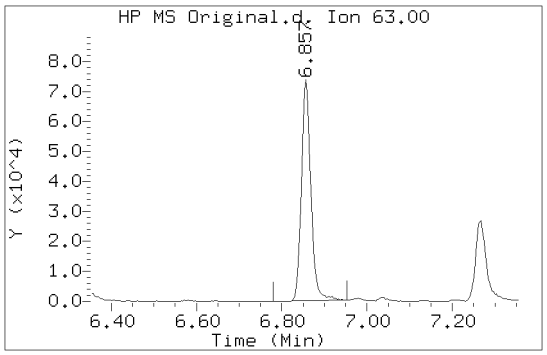


2-Chloroethylvinyl ether (110-75-8)

Reason Code:

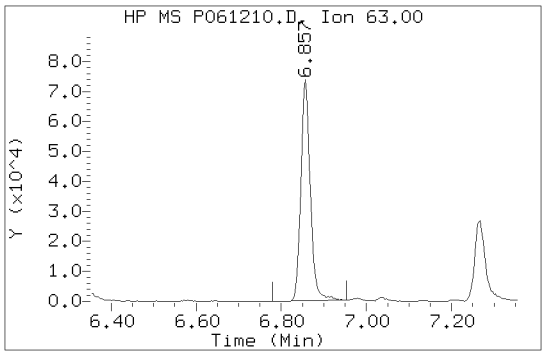
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AFTER

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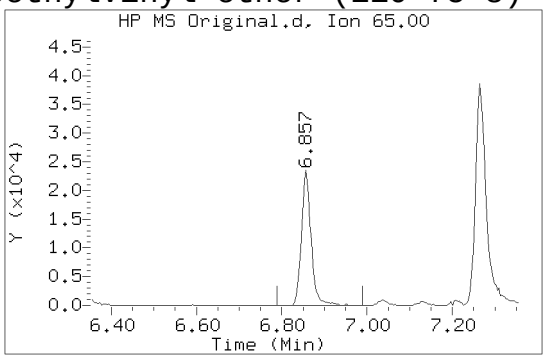
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LabSampID : VSTD100

2-Chloroethylvinyl ether (110-75-8)

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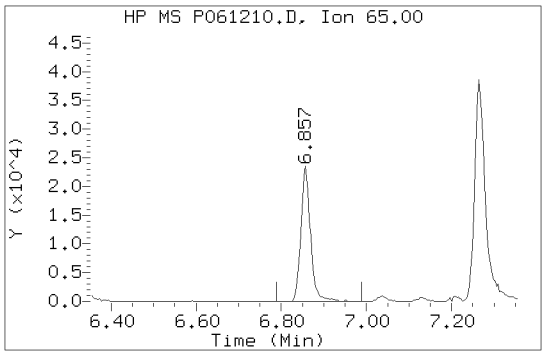
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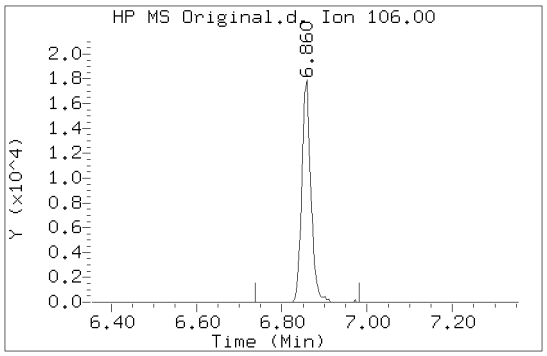
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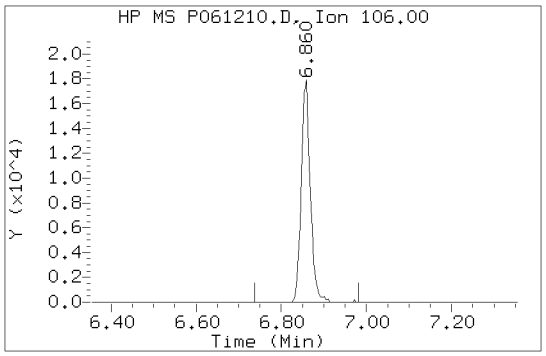
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22-Jun-2024
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AFTER

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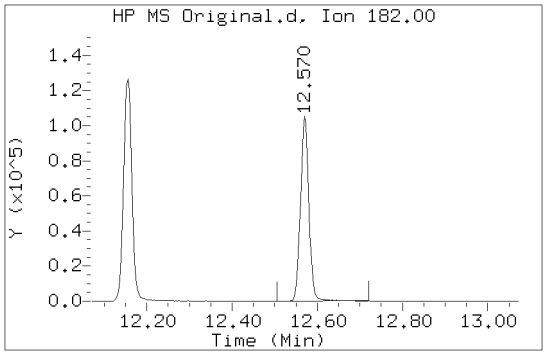


1,2,3-Trichlorobenzene (87-61-6)

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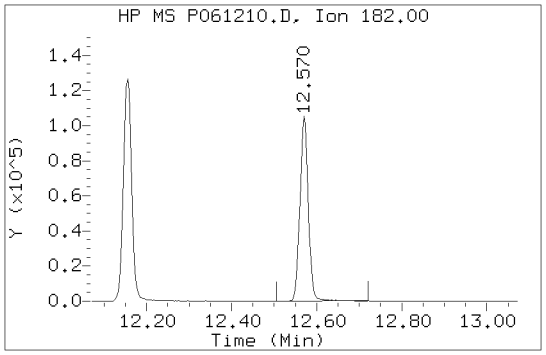
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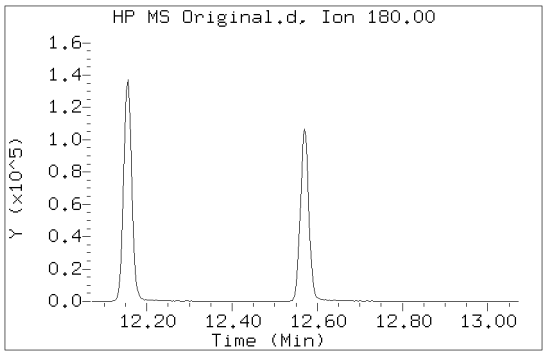
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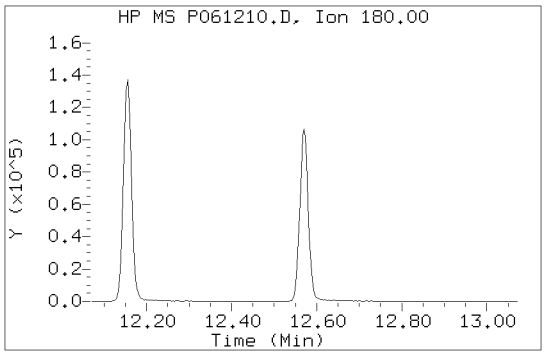
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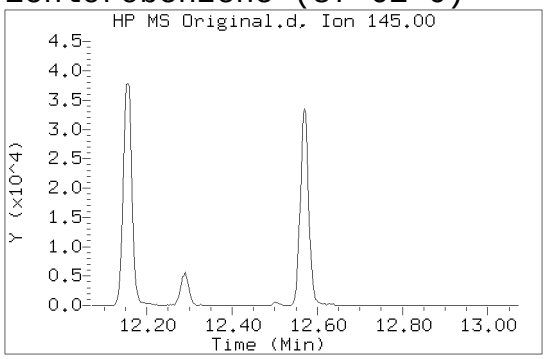
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1,2,3-Trichlorobenzene (87-61-6)

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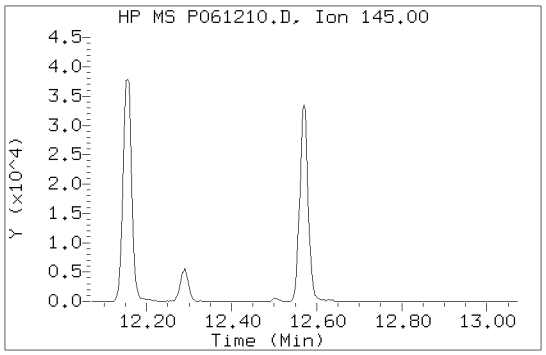
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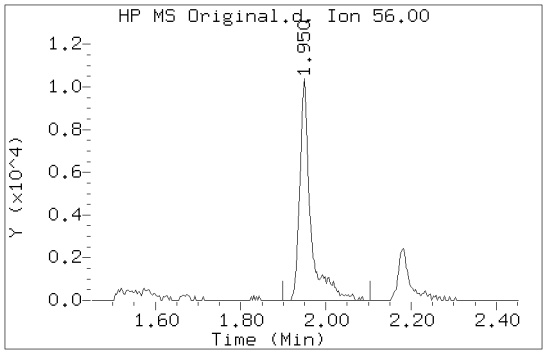


Isobutylene (115-11-7)

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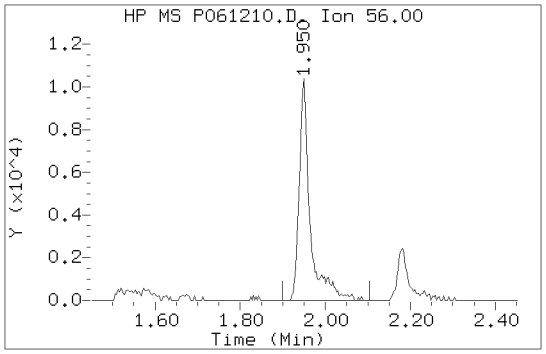
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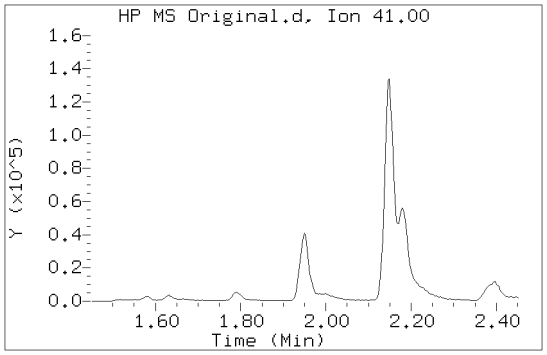
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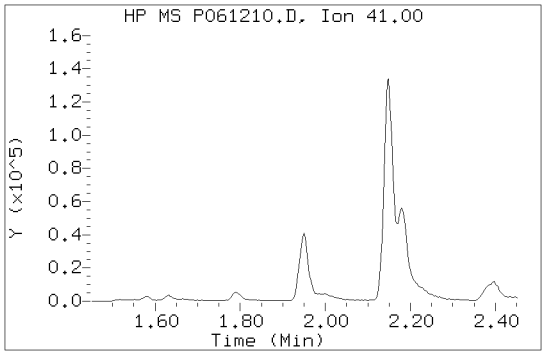
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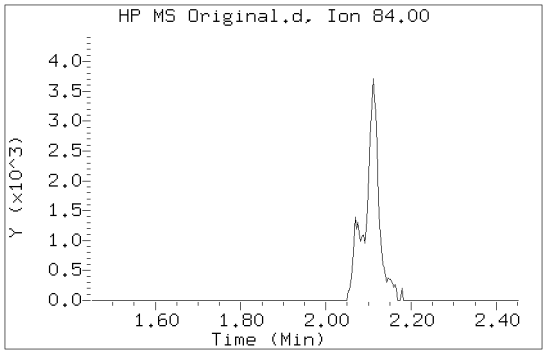
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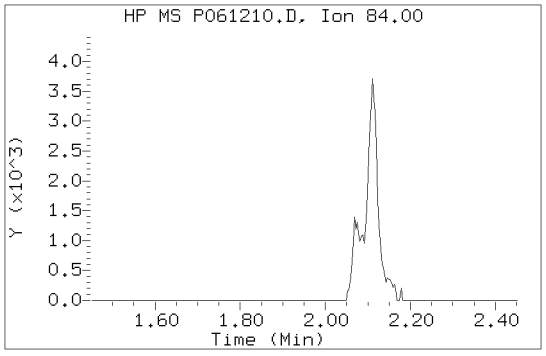
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Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061211.D Page 1
Report Date: 22-Jun-2024 12:21

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061211.D
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Inj Date : 12-JUN-2024 14:46
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Smp Info : VSTD200
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240612.b\8260W.m
Meth Date : 22-Jun-2024 12:21 voa7.i   Quant Type: ISTD
Cal Date : 12-JUN-2024 14:23   Cal File: P061210.D
Als bottle: 14   Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	5.129	5.129	(1.000)	131273	50.0000	
2	Dichlorodifluoromethane	85	1.294	1.294	(0.252)	270113	200.000	200.54(A)
159	Dichlorofluoromethane	67	2.072	2.072	(0.404)	492905	200.000	181.78(A)
3	Chloromethane	50	1.451	1.451	(0.283)	406492	200.000	200.59(A)
4	Propionitrile	54	4.676	4.676	(0.912)	346124	2000.00	2005.49(A)
5	Vinyl Chloride	62	1.535	1.535	(0.299)	361844	200.000	200.92(A)
6	Bromomethane	94	1.795	1.795	(0.350)	195540	200.000	200.07(A)
7	Chloroethane	64	1.888	1.888	(0.368)	218152	200.000	200.91(A)
8	Trichlorofluoromethane	101	2.110	2.110	(0.411)	482183	200.000	200.90(A)
9	Acrolein	56	2.515	2.515	(0.490)	18902	400.000	399.47
10	Acetone	43	2.670	2.670	(0.521)	167976	400.000	395.72
11	1,1-Dichloroethene	96	2.589	2.589	(0.505)	264150	200.000	208.75(A)
12	Isobutyl Alcohol	43	5.573	5.573	(1.086)	822489	4000.00	4012.97(AM)
13	Acetonitrile	39	2.959	2.959	(0.577)	370823	2000.00	2011.13(A)
14	Allyl Chloride	41	2.959	2.959	(0.577)	786860	200.000	200.64(A)
15	Iodomethane	142	2.740	2.740	(0.534)	520851	400.000	399.42
16	Acrylonitrile	53	3.380	3.380	(0.659)	176557	400.000	401.26(A)
17	Methylene Chloride	84	3.094	3.094	(0.603)	298034	200.000	200.67
18	Methyl tert-butyl ether	73	3.380	3.380	(0.659)	711970	200.000	202.44(A)
19	Carbon Disulfide	76	2.795	2.795	(0.545)	1673748	400.000	403.18(A)

20 trans-1,2-Dichloroethene	96	3.377	3.377 (0.658)	272635	200.000	194.13
21 Vinyl Acetate	43	4.660	4.660 (0.908)	285944	400.000	401.91(A)

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061211.D Page 2
Report Date: 22-Jun-2024 12:21

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
22	1,1-Dichloroethane	63	3.863	3.863	(0.753)	568496	200.000	200.80(A)
23	Chloroprene	53	3.962	3.962	(0.772)	496623	200.000	201.64(AM)
24	2-Butanone	43	4.589	4.589	(0.895)	236840	400.000	404.36(A)
25	Methacrylonitrile	41	2.146	2.146	(0.418)	443834	200.000	203.60(M)
26	2,2-Dichloropropane	77	4.535	4.535	(0.884)	499422	200.000	201.14(A)
27	cis-1,2-Dichloroethene	96	4.544	4.544	(0.886)	313493	200.000	201.12(A)
28	Chloroform	83	4.904	4.904	(0.956)	556477	200.000	200.59(A)
29	Bromochloromethane	128	4.808	4.808	(0.937)	147403	200.000	199.59
$ 30	Dibromofluoromethane	113	5.072	5.072	(0.989)	281674	200.000	201.80(A)
31	1,1,1-Trichloroethane	97	5.072	5.072	(0.989)	498996	200.000	201.05(A)
32	1,1-Dichloropropene	75	5.245	5.245	(0.896)	430683	200.000	201.06(A)
33	1,2-Dichloroethane	62	5.493	5.493	(0.938)	466569	200.000	200.27(A)
34	Carbon Tetrachloride	117	5.236	5.236	(0.895)	442439	200.000	201.19(A)
$ 35	1,2-Dichloroethane-d4	65	5.416	5.416	(1.056)	367451	200.000	201.46(A)
* 36	1,4-Difluorobenzene	114	5.853	5.853	(1.000)	214828	50.0000	
37	Benzene	78	5.457	5.457	(0.932)	1134370	200.000	200.54(A)
38	Trichloroethene	130	6.088	6.088	(1.040)	299845	200.000	200.68(A)
39	Bromodichloromethane	83	6.570	6.570	(1.122)	436473	200.000	200.98(A)
40	Methyl Methacrylate	41	6.435	6.435	(1.254)	265056	200.000	199.43
41	2-Chloroethylvinyl ether	63	6.856	6.856	(1.171)	265387	400.000	400.24(AM)
42	1,2-Dichloropropane	63	6.309	6.309	(1.078)	330429	200.000	200.77(A)
43	2-Nitropropane	43	6.801	6.801	(1.326)	93821	200.000	203.09(A)
44	Dibromomethane	93	6.419	6.419	(1.097)	187225	200.000	200.90(A)
45	4-Methyl-2-Pentanone	43	7.129	7.129	(0.842)	587956	400.000	400.63(A)
46	cis-1,3-Dichloropropene	75	6.978	6.978	(1.192)	494031	200.000	202.15(A)
* 47	Chlorobenzene-d5	117	8.467	8.467	(1.000)	205402	50.0000	
$ 48	Toluene-d8	98	7.207	7.207	(0.851)	1005869	200.000	199.98
49	Ethyl Methacrylate	69	8.043	8.043	(1.374)	347139	200.000	199.75
50	Toluene	91	7.264	7.264	(0.858)	1184335	200.000	199.19
51	trans-1,3-Dichloropropene	75	6.978	6.978	(1.192)	494031	200.000	202.15(A)
52	2-Hexanone	43	7.862	7.862	(0.929)	408580	400.000	398.76
53	1,1,2-Trichloroethane	83	7.641	7.641	(0.902)	226781	200.000	199.22
54	1,3-Dichloropropane	76	7.782	7.782	(0.919)	473785	200.000	199.39
55	Dibromochloromethane	129	7.978	7.978	(0.942)	324738	200.000	200.32(A)
56	Tetrachloroethene	164	7.737	7.737	(0.914)	232209	200.000	198.81
57	1,2-Dibromoethane	107	8.075	8.075	(0.954)	220504	200.000	201.07(A)
58	1-Chlorohexane	55	8.470	8.470	(1.447)	277125	200.000	199.87
59	Chlorobenzene	112	8.493	8.493	(1.003)	777930	200.000	199.68
60	1,1,1,2-Tetrachloroethane	131	8.567	8.567	(1.012)	295819	200.000	200.61(A)
61	Ethylbenzene	106	8.586	8.586	(1.014)	405032	200.000	199.65
62	m,p-Xylenes	106	8.686	8.686	(1.026)	1021002	400.000	399.69
63	o-Xylene	106	9.026	9.026	(1.066)	489577	200.000	199.77
64	Styrene	104	9.039	9.039	(1.068)	832493	200.000	200.15(A)
66	Bromoform	173	9.206	9.206	(1.087)	207700	200.000	200.96(A)
67	Isopropylbenzene	105	9.341	9.341	(1.103)	1244948	200.000	199.60
68	1,1,2,2-Tetrachloroethane	83	9.612	9.612	(0.919)	357305	200.000	198.98
$ 69	4-Bromofluorobenzene	95	9.477	9.477	(1.119)	392522	200.000	200.53(A)
* 70	1,4-Dichlorobenzene-d4	152	10.460	10.460	(1.000)	108847	50.0000	
71	1,2,3-Trichloropropane	75	9.650	9.650	(0.923)	388904	200.000	199.49
72	trans-1,4-Dichloro-2-butene	53	9.660	9.660	(1.141)	84582	200.000	201.50(A)
73	n-Propylbenzene	91	9.692	9.692	(0.927)	1539134	200.000	198.96
74	Bromobenzene	156	9.605	9.605	(0.918)	340627	200.000	199.28

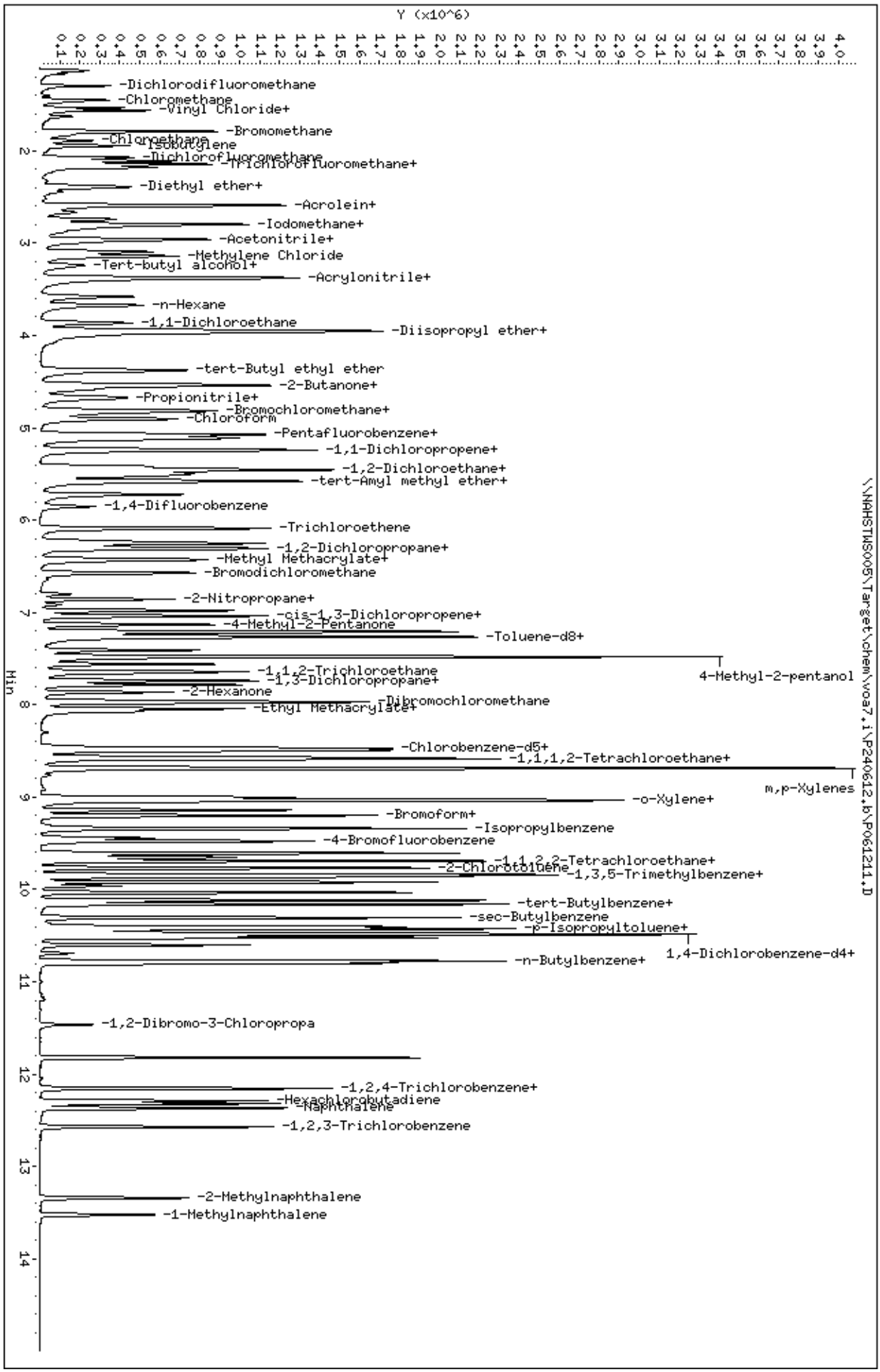
75	1,3,5-Trimethylbenzene	105	9.840	9.840 (0.941)	1097303	200.000	199.91
76	2-Chlorotoluene	91	9.766	9.766 (0.934)	945763	200.000	199.07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
77	4-Chlorotoluene	91	9.859	9.859	(0.943)	1107997	200.000	198.99
78	tert-Butylbenzene	119	10.116	10.116	(0.967)	908367	200.000	198.92
79	1,2,4-Trimethylbenzene	105	10.158	10.158	(0.971)	1094080	200.000	199.34
81	sec-Butylbenzene	105	10.303	10.303	(0.985)	1265216	200.000	198.87
82	p-Isopropyltoluene	119	10.428	10.428	(0.997)	1118174	200.000	180.30
83	1,3-Dichlorobenzene	146	10.403	10.403	(0.994)	619265	200.000	199.31
84	1,4-Dichlorobenzene	146	10.480	10.480	(1.002)	639034	200.000	199.17
87	n-Butylbenzene	91	10.776	10.776	(1.030)	1024454	200.000	182.29
88	1,2-Dichlorobenzene	146	10.798	10.798	(1.032)	600569	200.000	199.01
89	1,2-Dibromo-3-Chloropropane	75	11.467	11.467	(1.096)	60354	200.000	187.16
90	1,2,4-Trichlorobenzene	180	12.155	12.155	(1.162)	385944	200.000	199.75
91	Hexachlorobutadiene	225	12.290	12.290	(1.175)	189618	200.000	214.24(A)
92	Naphthalene	128	12.367	12.367	(1.182)	848291	200.000	199.36
93	1,2,3-Trichlorobenzene	182	12.570	12.570	(1.202)	308615	200.000	200.03(AM)
146	Methyl acetate	43	2.991	2.991	(0.583)	205889	200.000	200.71(A)
138	Freon TF	101	2.593	2.593	(0.505)	273013	200.000	200.90(A)
139	Diethyl ether	59	2.380	2.380	(0.464)	180092	200.000	201.42(A)
140	1,3-Butadiene	54	1.564	1.564	(0.305)	164372	200.000	200.63(A)
141	Cyclohexane	56	5.110	5.110	(0.996)	432114	200.000	200.86
147	Methylcyclohexane	83	6.252	6.252	(1.068)	429412	200.000	201.78(A)
132	n-Butanol	56	6.252	6.252	(1.219)	176274	4000.00	4010.10(TA)
131	Methyl Acrylate	55	4.689	4.689	(0.914)	272963	200.000	200.99
133	Ethyl Acrylate	55	6.248	6.248	(1.218)	721879	200.000	194.18
136	n-Hexane	57	3.673	3.673	(0.716)	309832	200.000	201.68(A)
142	Tetrahydrofuran	42	4.859	4.859	(0.947)	94446	400.000	403.45(A)
148	Tert-butyl alcohol	59	3.242	3.242	(0.632)	388459	4000.00	4009.52(A)
149	Isopropyl alcohol	45	2.821	2.821	(0.550)	337246	4000.00	4049.27(A)
151	4-Methyl-2-pentanol	45	7.480	7.480	(0.883)	1681264	4000.00	4063.76(A)
166	1,2,3-Trimethylbenzene	105	10.522	10.522	(1.006)	961261	200.000	198.98
167	Ethanol	45	2.329	2.329	(0.454)	50310	4000.00	3926.22(M)
172	tert-Butyl formate	59	3.242	3.242	(0.632)	388459	400.000	400.94(A)
173	3,3-Dimethyl-1-butanol	57	8.043	8.043	(0.950)	477501	4000.00	3997.51
174	tert-Amyl methyl ether	73	5.580	5.580	(1.088)	773133	200.000	200.24(A)
175	tert-Butyl ethyl ether	59	4.377	4.377	(0.853)	837966	200.000	200.14(A)
157	2-Methylnaphthalene	142	13.341	13.341	(1.275)	339740	200.000	202.54(A)
156	Diisopropyl ether	45	3.949	3.949	(0.770)	948775	200.000	201.17(A)
171	1-Methylnaphthalene	142	13.525	13.525	(1.293)	274483	200.000	202.77(A)
130	Ethyl Acetate	43	3.946	3.946	(0.769)	1804860	200.000	202.90(A)
176	tert-Amyl alcohol	59	5.518	5.518	(1.076)	341276	4000.00	4027.63(AM)
160	Epichlorohydrin	57	6.914	6.914	(1.181)	74228	800.000	800.75(AM)
161	Butyl acrylate	55	8.997	8.997	(1.063)	681083	200.000	200.86(TAM)
182	Isobutylene	56	1.946	1.946	(0.379)	38824	200.000	199.63(AM)
183	Isopropyl Acetate	43	5.573	5.573	(0.952)	811507	200.000	199.91(AM)
184	n-Amyl acetate	43	9.197	9.197	(1.086)	663193	200.000	202.53(AM)
185	Acetaldehyde	44	1.631	1.631	(0.318)	168802	800.000	803.15(AM)

QC Flag Legend

T - Target compound detected outside RT window.
A - Target compound detected but, quantitated amount
    exceeded maximum amount.

M - Compound response manually integrated.



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Sample Info: VSTD200
Purge Volume: 5.0
Column phase: DB624

Instrument: voa7.i
Operator: AP
Column diameter: 0.18

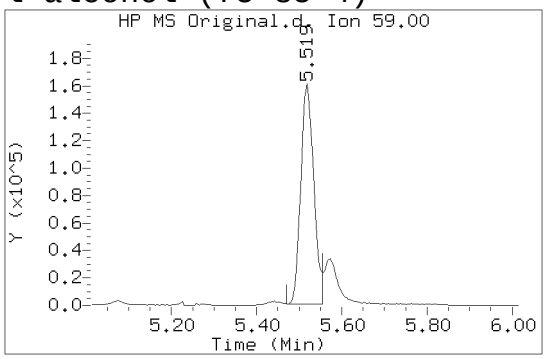
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Inj Date : 12-JUN-2024 14:46
InstruID : voa7.i
LabSampID : VSTD200

tert-Amyl alcohol (75-85-4)

Reason Code:

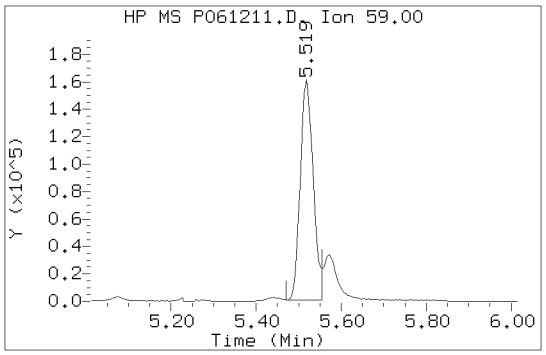
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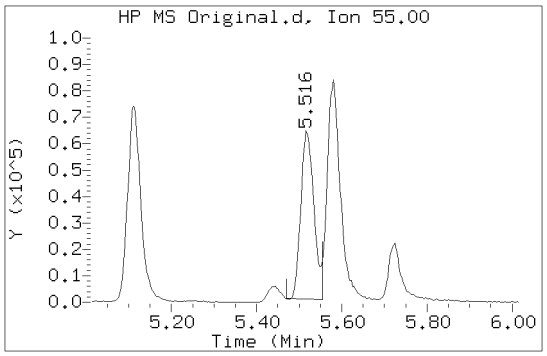
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RUCHA
PATEL



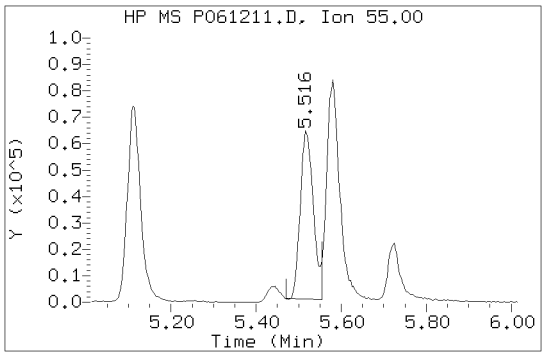
BEFORE

MASS
55
AREA
137939
HEIGHT
63916
22-Jun-2024
12:20
RUCHA
PATEL



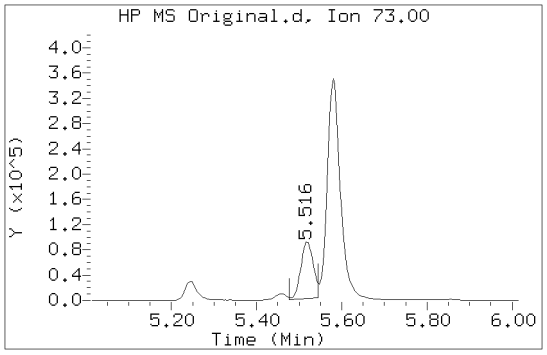
AFTER

MASS
55
AREA
137939
HEIGHT
63916
22-Jun-2024
12:20
RUCHA
PATEL



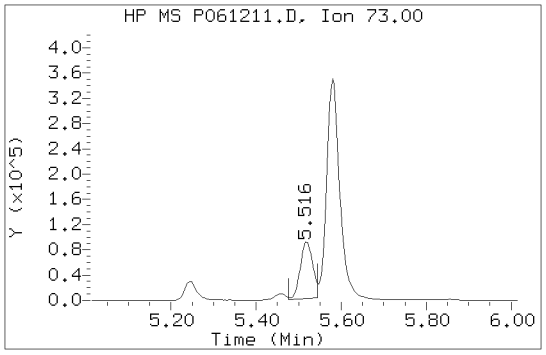
BEFORE

MASS
73
AREA
183774
HEIGHT
89190
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
73
AREA
183774
HEIGHT
89190
22-Jun-2024
12:20
RUCHA
PATEL

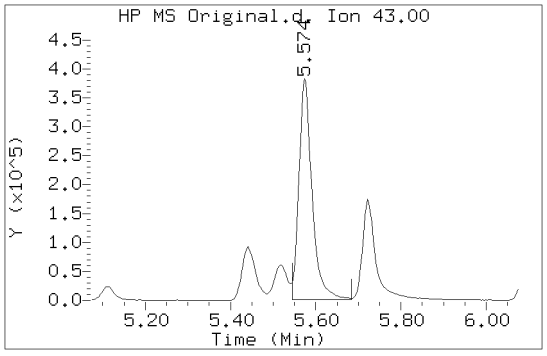


Isobutyl Alcohol (78-83-1)

Reason Code:

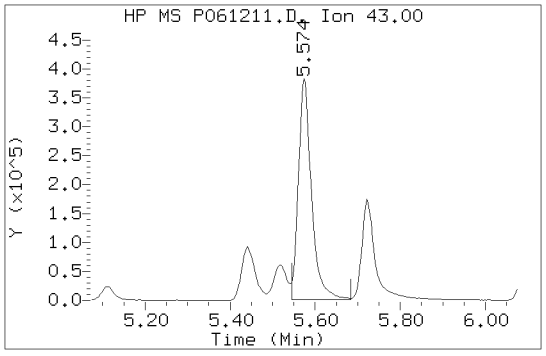
BEFORE

MASS
43
AREA
822489
HEIGHT
381963
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
43
AREA
822489
HEIGHT
381963
22-Jun-2024
12:20
RUCHA
PATEL



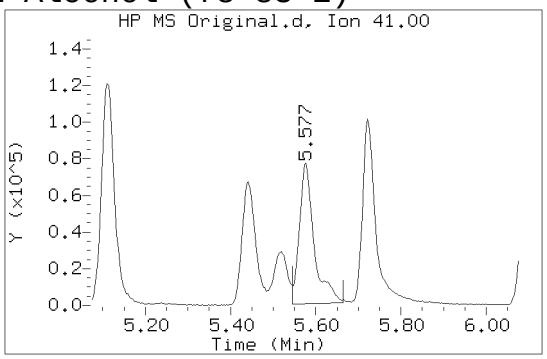
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061211.D
Inj Date : 12-JUN-2024 14:46
InstruID : voa7.i
LabSampID : VSTD200

Isobutyl Alcohol (78-83-1)

Reason Code:

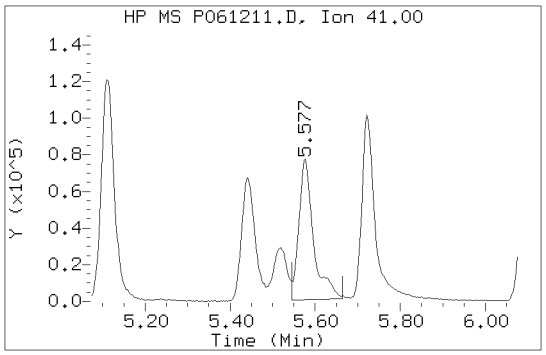
BEFORE

MASS
41
AREA
186078
HEIGHT
76651
22-Jun-2024
12:20
RUCHA
PATEL



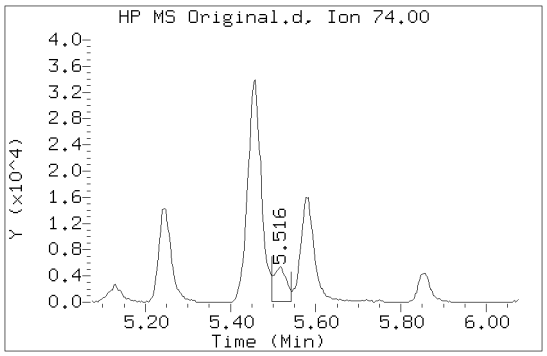
AFTER

MASS
41
AREA
186078
HEIGHT
76651
22-Jun-2024
12:20
RUCHA
PATEL



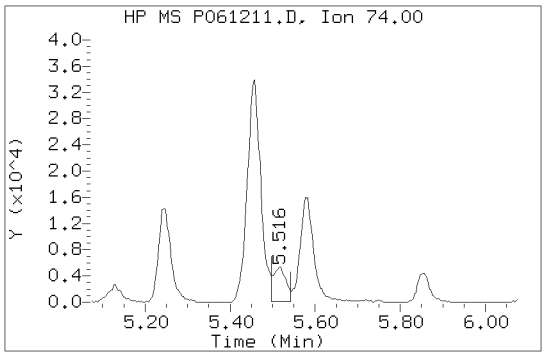
BEFORE

MASS
74
AREA
11474
HEIGHT
5330
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
74
AREA
11474
HEIGHT
5330
22-Jun-2024
12:20
RUCHA
PATEL

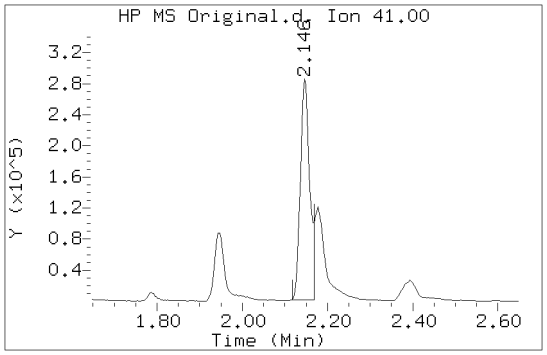


Methacrylonitrile (126-98-7)

Reason Code:

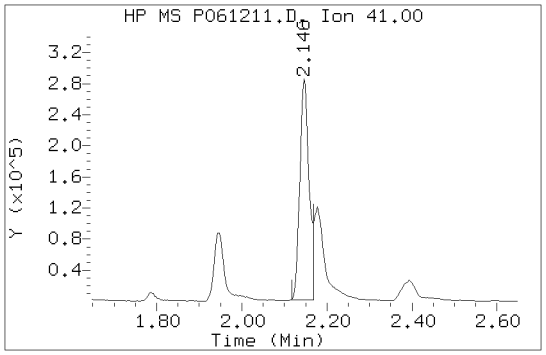
BEFORE

MASS
41
AREA
443834
HEIGHT
284609
22-Jun-2024
12:20
RUCHA
PATEL



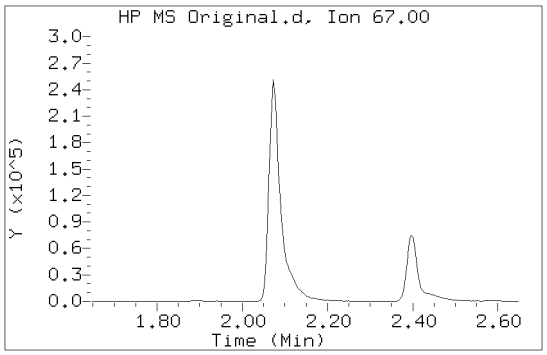
AFTER

MASS
41
AREA
443834
HEIGHT
284609
22-Jun-2024
12:20
RUCHA
PATEL



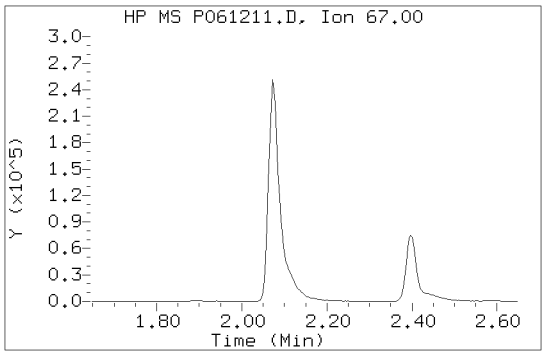
BEFORE

MASS
67
AREA
92408
HEIGHT
44792
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
67
AREA
92408
HEIGHT
44792
22-Jun-2024
12:20
RUCHA
PATEL



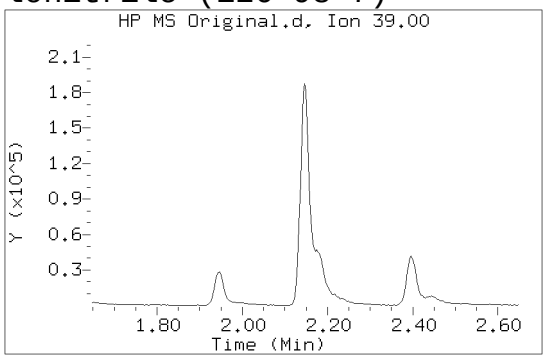
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061211.D
Inj Date : 12-JUN-2024 14:46
InstruID : voa7.i
LabSampID : VSTD200

Methacrylonitrile (126-98-7)

Reason Code:

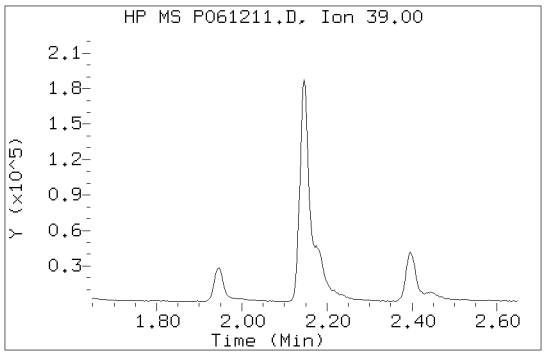
BEFORE

MASS
39
AREA
62944
HEIGHT
23948
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
39
AREA
62944
HEIGHT
23948
22-Jun-2024
12:20
RUCHA
PATEL

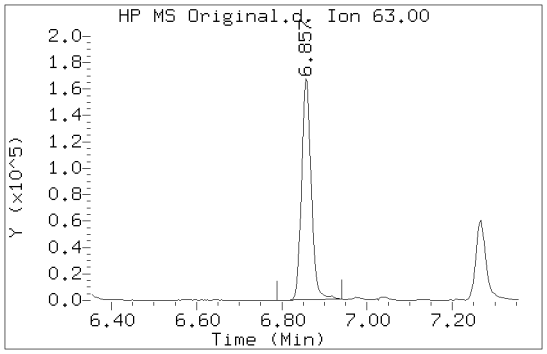


2-Chloroethylvinyl ether (110-75-8)

Reason Code:

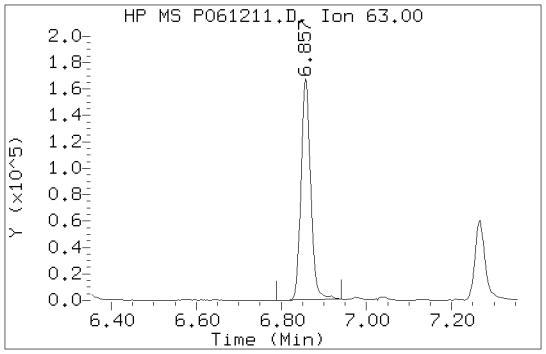
BEFORE

MASS
63
AREA
265387
HEIGHT
167370
22-Jun-2024
12:20
RUCHA
PATEL



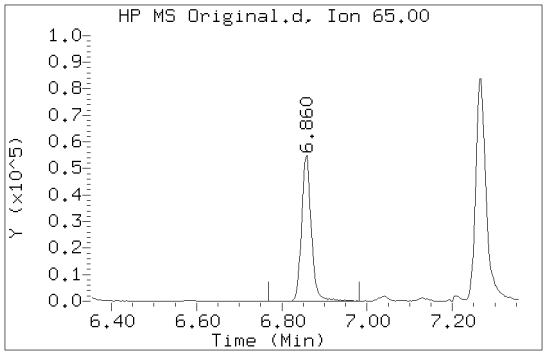
AFTER

MASS
63
AREA
265387
HEIGHT
167370
22-Jun-2024
12:20
RUCHA
PATEL



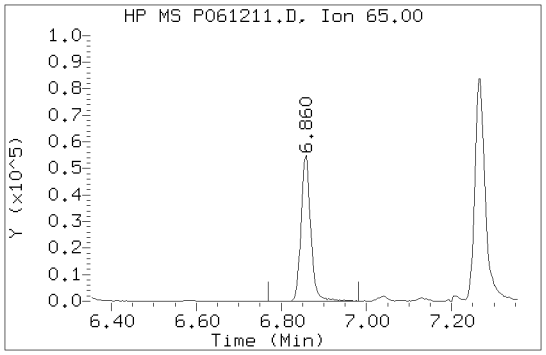
BEFORE

MASS
65
AREA
87920
HEIGHT
54984
22-Jun-2024
12:20
RUCHA
PATEL



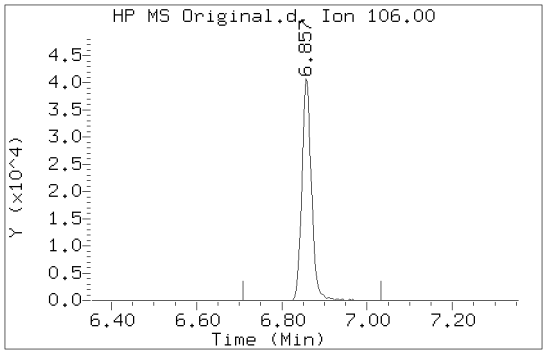
AFTER

MASS
65
AREA
87920
HEIGHT
54984
22-Jun-2024
12:20
RUCHA
PATEL



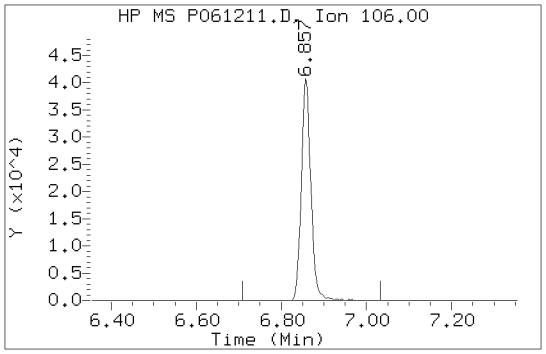
BEFORE

MASS
106
AREA
63953
HEIGHT
40744
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
106
AREA
63953
HEIGHT
40744
22-Jun-2024
12:20
RUCHA
PATEL



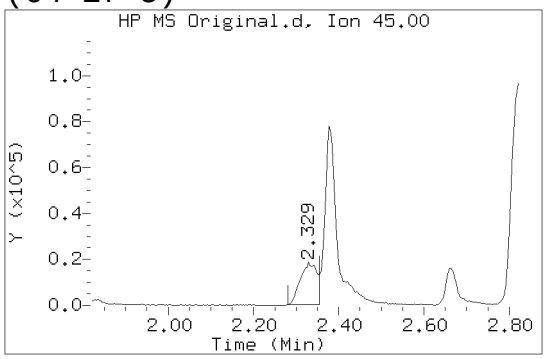
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061211.D
Inj Date : 12-JUN-2024 14:46
InstruID : voa7.i
LabSampID : VSTD200

Ethanol (64-17-5)

Reason Code:

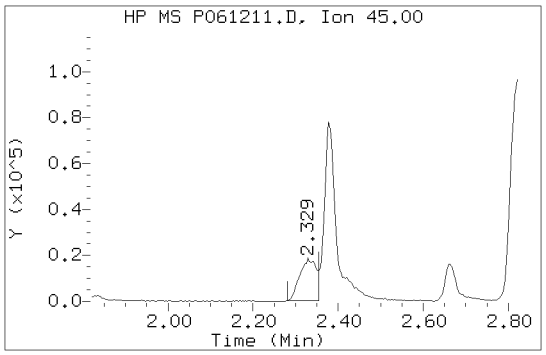
BEFORE

MASS
45
AREA
50310
HEIGHT
18582
22-Jun-2024
12:20
RUCHA
PATEL



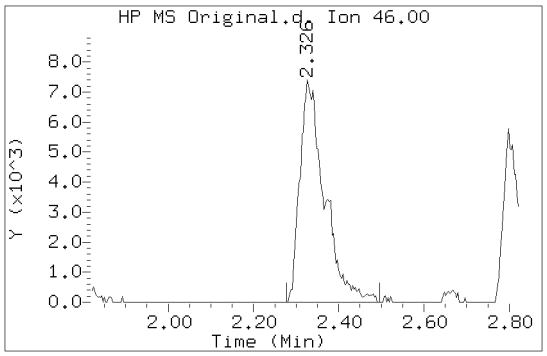
AFTER

MASS
45
AREA
50310
HEIGHT
18582
22-Jun-2024
12:20
RUCHA
PATEL



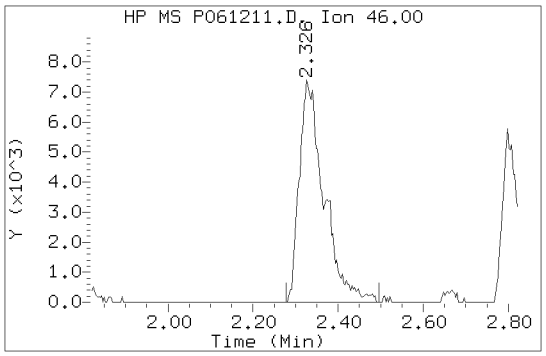
BEFORE

MASS
46
AREA
29785
HEIGHT
7403
22-Jun-2024
12:20
RUCHA
PATEL



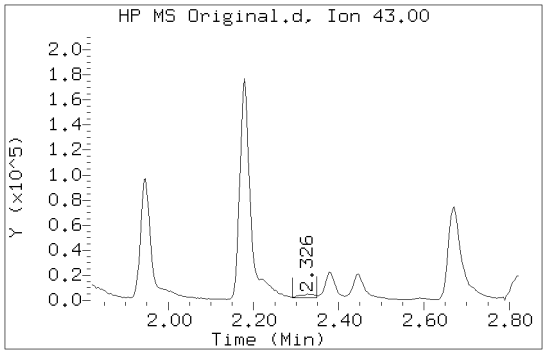
AFTER

MASS
46
AREA
29785
HEIGHT
7403
22-Jun-2024
12:20
RUCHA
PATEL



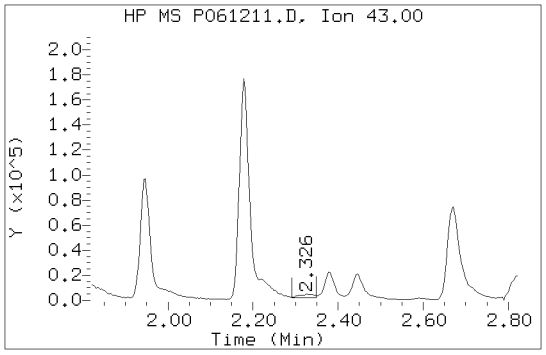
BEFORE

MASS
43
AREA
8003
HEIGHT
3342
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
43
AREA
8003
HEIGHT
3342
22-Jun-2024
12:20
RUCHA
PATEL

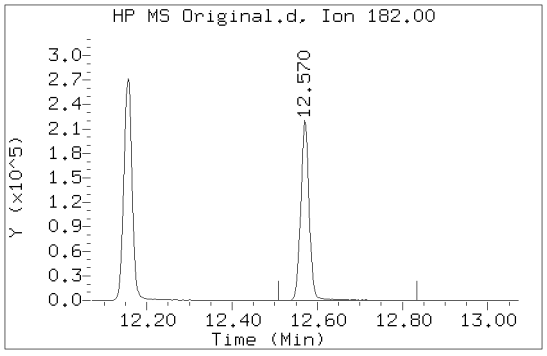


1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

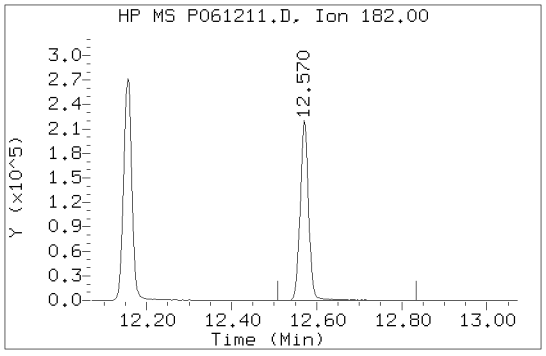
BEFORE

MASS
182
AREA
308615
HEIGHT
220864
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
182
AREA
308615
HEIGHT
220864
22-Jun-2024
12:20
RUCHA
PATEL



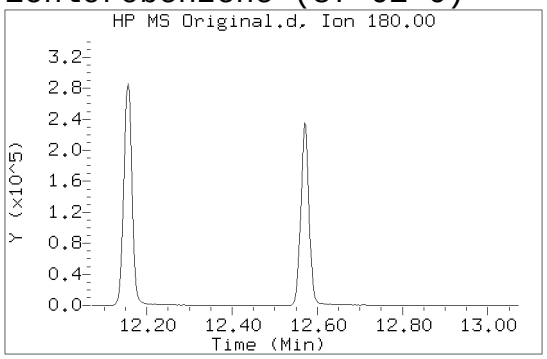
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061211.D
Inj Date : 12-JUN-2024 14:46
InstruID : voa7.i
LabSampID : VSTD200

1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

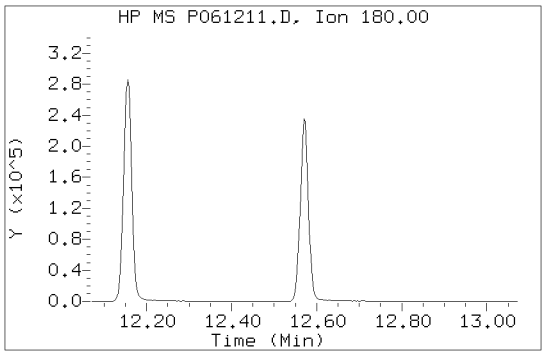
BEFORE

MASS
180
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



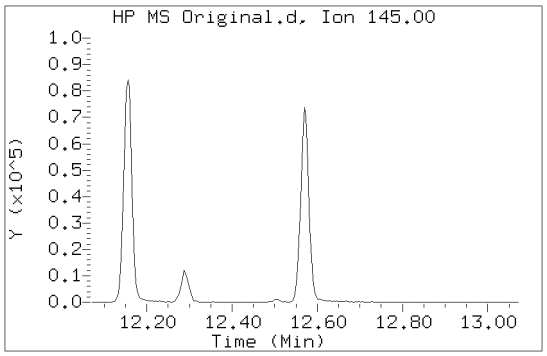
AFTER

MASS
180
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



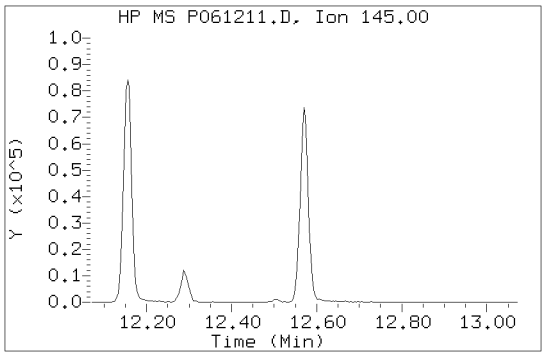
BEFORE

MASS
145
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
145
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL

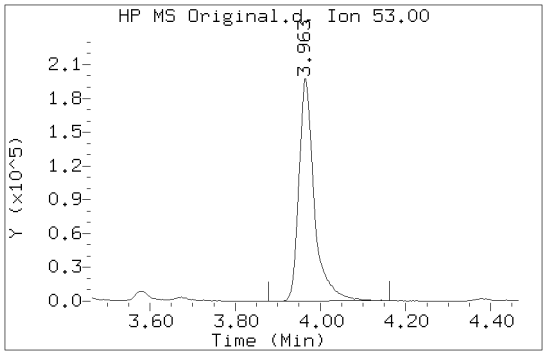


Chloroprene (126-99-8)

Reason Code:

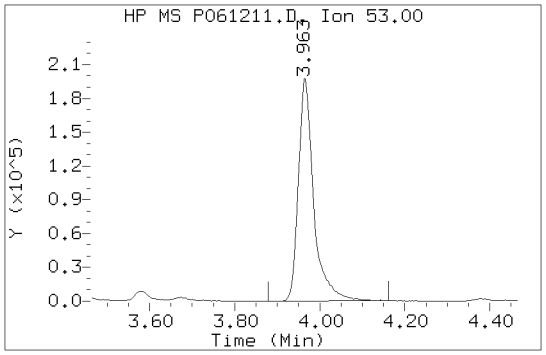
BEFORE

MASS
53
AREA
496623
HEIGHT
197193
22-Jun-2024
12:20
RUCHA
PATEL



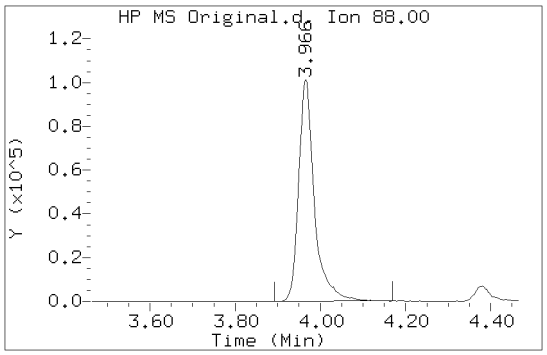
AFTER

MASS
53
AREA
496623
HEIGHT
197193
22-Jun-2024
12:20
RUCHA
PATEL



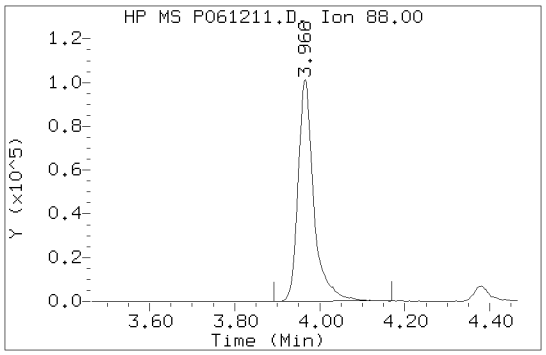
BEFORE

MASS
88
AREA
260207
HEIGHT
101266
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
88
AREA
260207
HEIGHT
101266
22-Jun-2024
12:20
RUCHA
PATEL



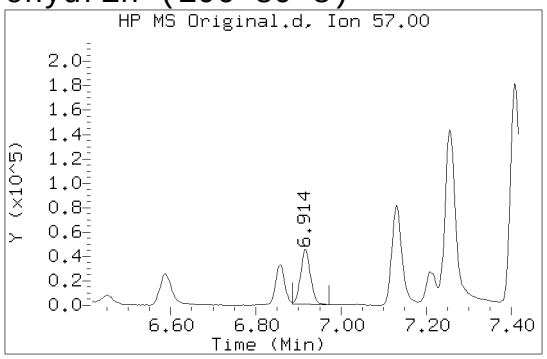
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Inj Date : 12-JUN-2024 14:46
InstruID : voa7.i
LabSampID : VSTD200

Epichlorohydrin (106-89-8)

Reason Code:

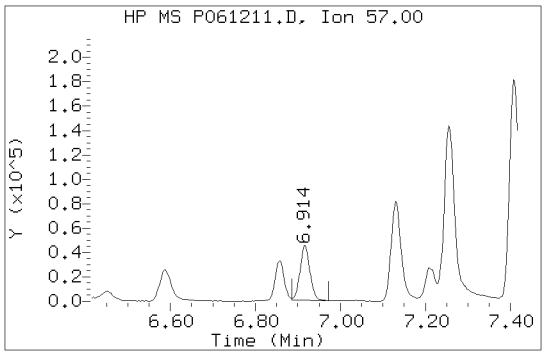
BEFORE

MASS
57
AREA
74228
HEIGHT
44995
22-Jun-2024
12:20
RUCHA
PATEL



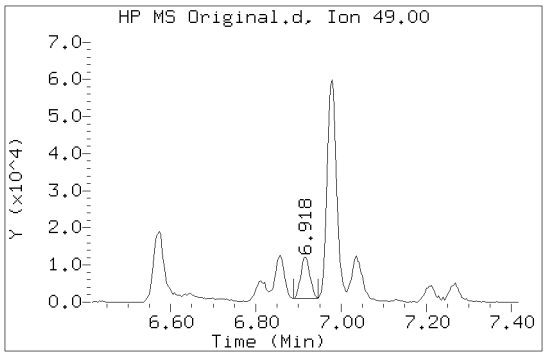
AFTER

MASS
57
AREA
74228
HEIGHT
44995
22-Jun-2024
12:20
RUCHA
PATEL



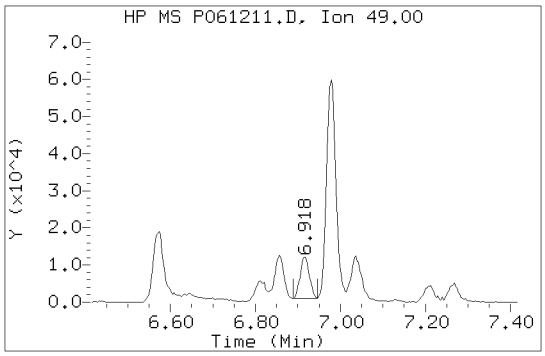
BEFORE

MASS
49
AREA
16743
HEIGHT
11087
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
49
AREA
16743
HEIGHT
11087
22-Jun-2024
12:20
RUCHA
PATEL

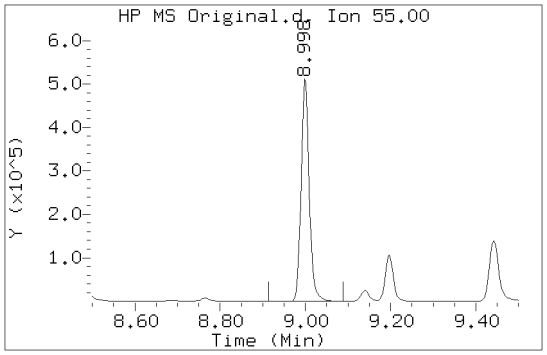


Butyl acrylate (141-32-2)

Reason Code:

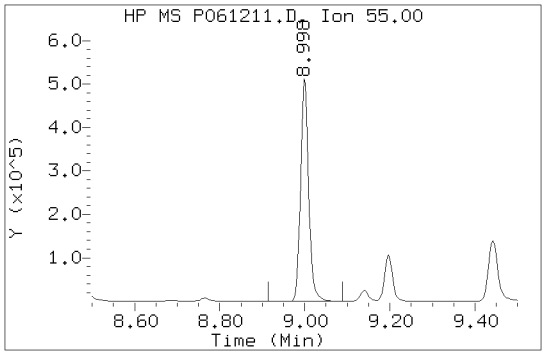
BEFORE

MASS
55
AREA
681083
HEIGHT
511254
22-Jun-2024
12:20
RUCHA
PATEL



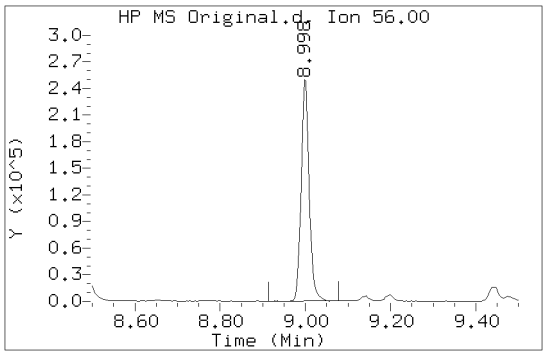
AFTER

MASS
55
AREA
681083
HEIGHT
511254
22-Jun-2024
12:20
RUCHA
PATEL



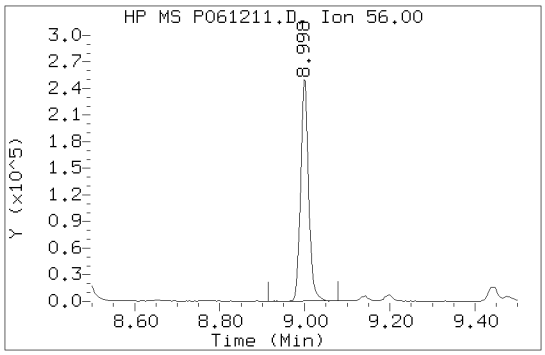
BEFORE

MASS
56
AREA
330354
HEIGHT
249562
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
56
AREA
330354
HEIGHT
249562
22-Jun-2024
12:20
RUCHA
PATEL



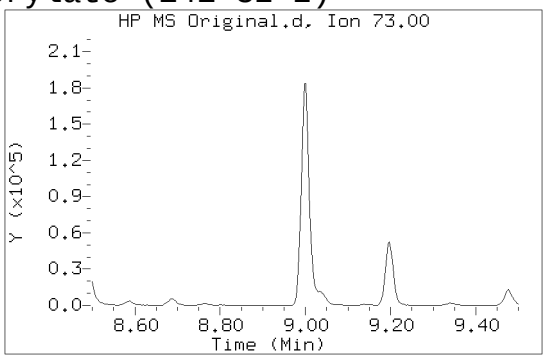
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061211.D
Inj Date : 12-JUN-2024 14:46
InstruID : voa7.i
LabSampID : VSTD200

Butyl acrylate (141-32-2)

Reason Code:

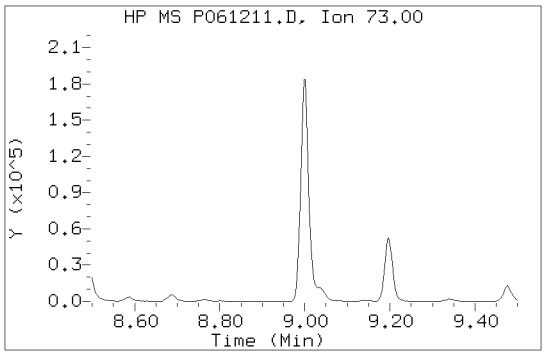
BEFORE

MASS
73
AREA
1130
HEIGHT
1006
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
73
AREA
1130
HEIGHT
1006
22-Jun-2024
12:20
RUCHA
PATEL

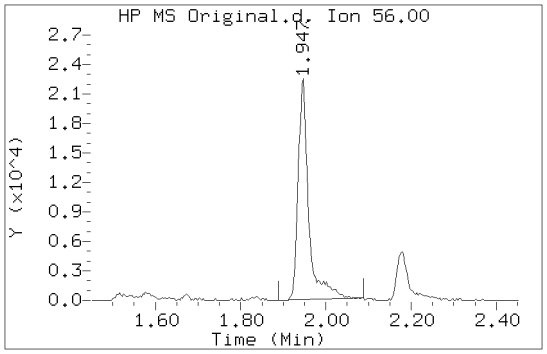


Isobutylene (115-11-7)

Reason Code:

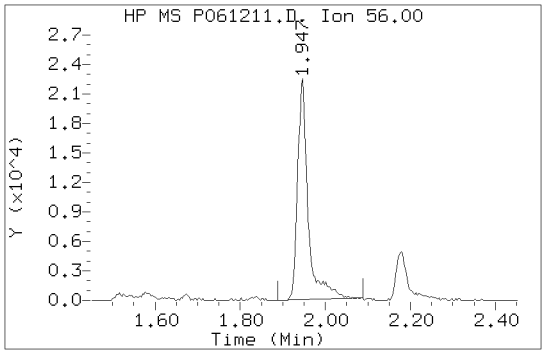
BEFORE

MASS
56
AREA
38824
HEIGHT
22484
22-Jun-2024
12:20
RUCHA
PATEL



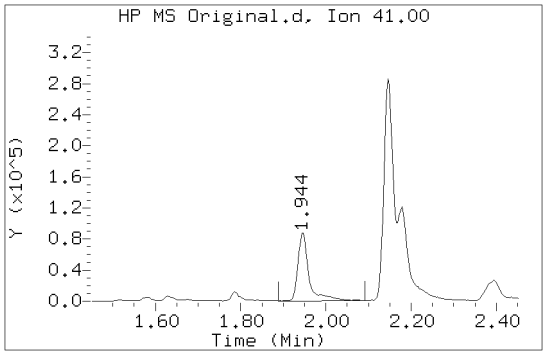
AFTER

MASS
56
AREA
38824
HEIGHT
22484
22-Jun-2024
12:20
RUCHA
PATEL



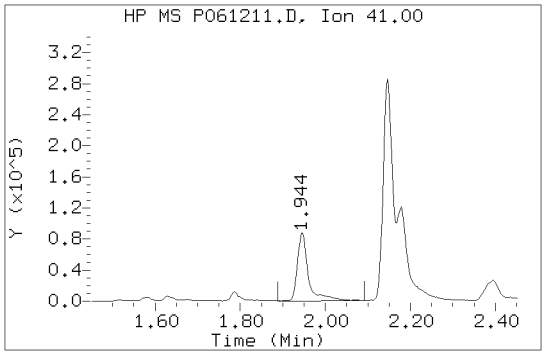
BEFORE

MASS
41
AREA
156677
HEIGHT
87491
22-Jun-2024
12:20
RUCHA
PATEL



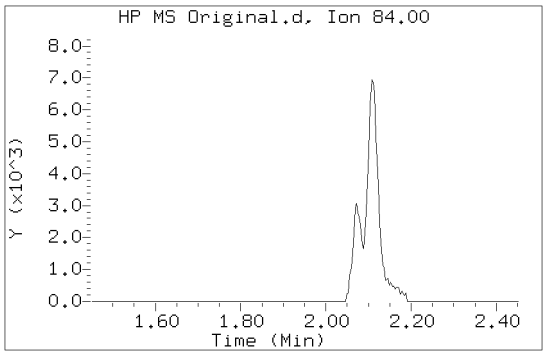
AFTER

MASS
41
AREA
156677
HEIGHT
87491
22-Jun-2024
12:20
RUCHA
PATEL



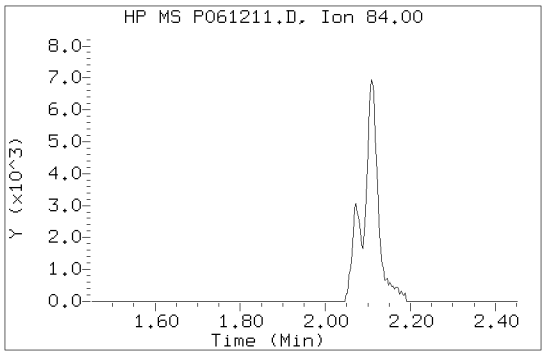
BEFORE

MASS
84
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
84
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



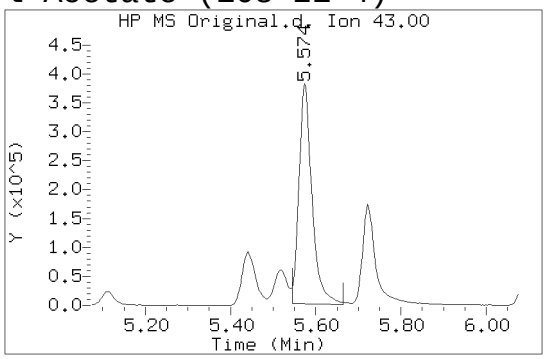
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061211.D
Inj Date : 12-JUN-2024 14:46
InstruID : voa7.i
LabSampID : VSTD200

Isopropyl Acetate (108-21-4)

Reason Code:

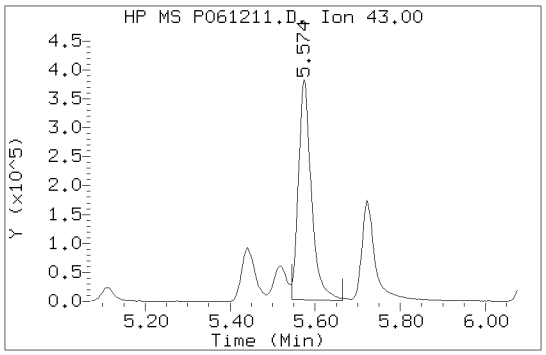
BEFORE

MASS
43
AREA
811507
HEIGHT
380600
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
43
AREA
811507
HEIGHT
380600
22-Jun-2024
12:20
RUCHA
PATEL

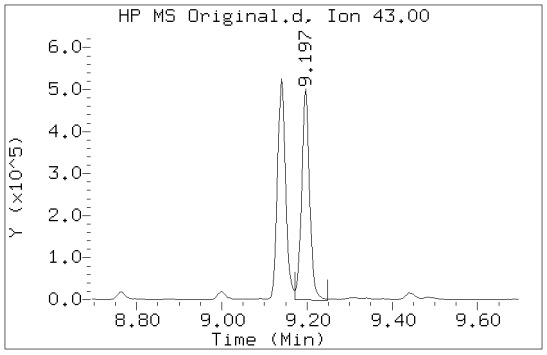


n-Amyl acetate (628-63-7)

Reason Code:

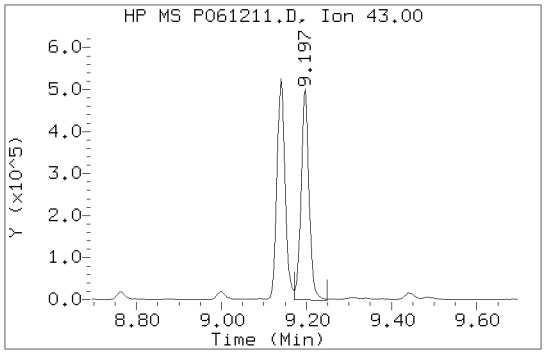
BEFORE

MASS
43
AREA
663193
HEIGHT
501513
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
43
AREA
663193
HEIGHT
501513
22-Jun-2024
12:20
RUCHA
PATEL

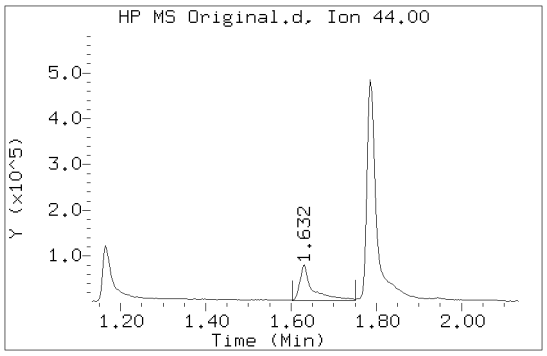


Acetaldehyde (75-07-0)

Reason Code:

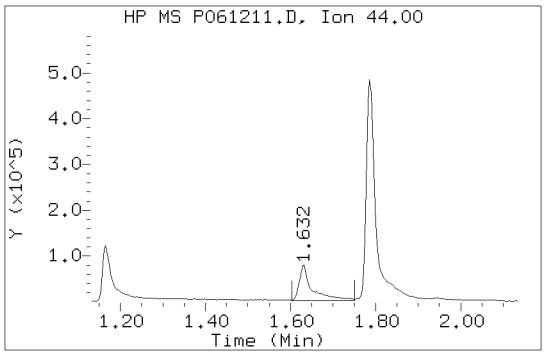
BEFORE

MASS
44
AREA
168802
HEIGHT
78259
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
44
AREA
168802
HEIGHT
78259
22-Jun-2024
12:20
RUCHA
PATEL



Data File: \\nahstws005\Target\chem\voa7.i\P240612.b\P061213.D Page 1
Report Date: 13-Jun-2024 09:46

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa7.i\P240612.b\P061213.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 12-JUN-2024 15:31
Operator : AP Inst ID: voa7.i
Smp Info : BFB
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240612.b\bfb.m
Meth Date : 25-Mar-2024 14:28 apoluri Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 16 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAHSTW7066

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	2.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/l)	TARGET RANGE	RATIO
RT	EXP RT	REL RT	MASS	RESPONSE				
1 bfb							CAS #: 460-00-4	
9.473	9.474	(0.000)	95	62928			0.00- 100.00	100.00
9.473	9.474	(0.000)	50	11338			15.00- 40.00	18.02
9.473	9.474	(0.000)	75	29528			30.00- 60.00	46.92
9.473	9.474	(0.000)	96	3436			5.00- 9.00	5.46
9.473	9.474	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
9.473	9.474	(0.000)	174	51368			50.00- 0.00	81.63
9.473	9.474	(0.000)	175	4114			5.00- 9.00	8.01
9.473	9.474	(0.000)	176	50232			95.00- 101.00	97.79
9.473	9.474	(0.000)	177	3180			5.00- 9.00	6.33

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.02
75	30.00 - 60.00% of mass 95	46.92
96	5.00 - 9.00% of mass 95	5.46
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	81.63
175	5.00 - 9.00% of mass 174	6.54 (8.01)
176	95.00 - 101.00% of mass 174	79.82 (97.79)
177	5.00 - 9.00% of mass 176	5.05 (6.33)

Data File: P061213.D
Spectrum: Scan 2766 (9.48)
Location of Maximum: 95.00
Number of points: 58

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	631	61.00	2683	81.80	220	117.90	264
37.10	3368	62.00	2536	87.00	2220	118.90	320
38.00	2889	63.00	1845	88.00	2024	128.00	159
39.00	1070	68.00	5984	90.90	314	129.80	229
39.90	308	69.00	6126	92.00	1700	134.80	156
44.00	463	70.00	443	93.10	2297	140.70	756
45.00	640	71.90	526	94.00	7311	142.90	637
47.00	914	73.00	2603	95.00	62928	145.90	201
47.90	348	74.00	10677	96.00	3436	173.90	51368
49.00	2393	75.00	29528	96.90	240	175.00	4114
50.00	11338	76.00	2361	103.90	247	175.90	50232
51.00	3753	77.00	430	104.80	159	176.90	3180
56.00	817	78.90	1489	105.80	256	205.00	326
57.00	1878	79.80	379	115.80	217		
59.90	565	80.90	1347	116.90	322		

Data File: \\nahstws005\Target\chem\voa7.i\P240612.b\P061213.D Page 1

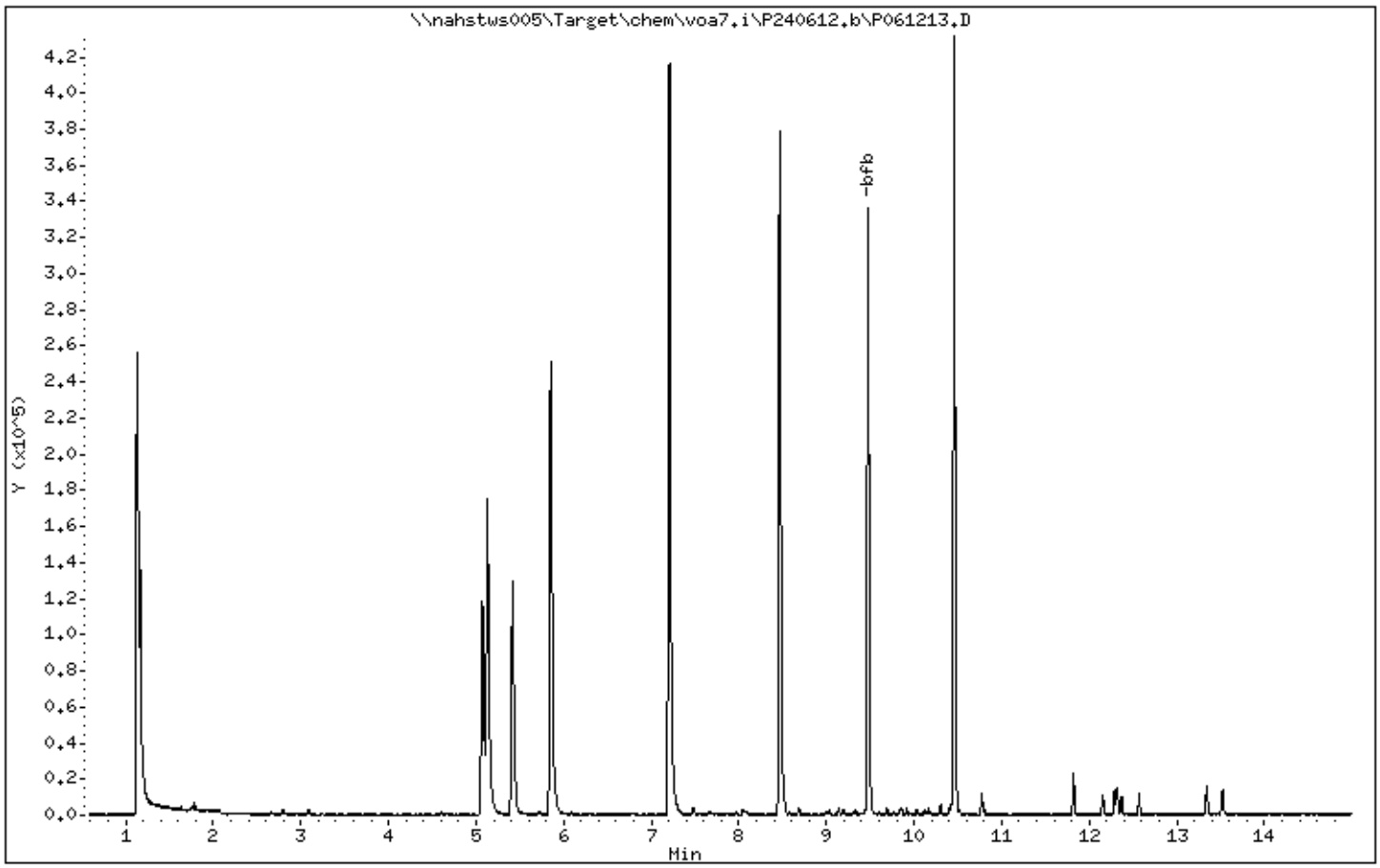
Date : 12-JUN-2024 15:31

Client ID: BFB Instrument: voa7.i

Sample Info: BFB

Volume Injected (uL): 2.0 Operator: AP

Column phase: DB624 Column diameter: 0.25



Data File: \\nahstws005\Target\chem\voa7.i\P240612.b\P061213.D

Date : 12-JUN-2024 15:31

Client ID: BFB

Instrument: voa7.i

Sample Info: BFB

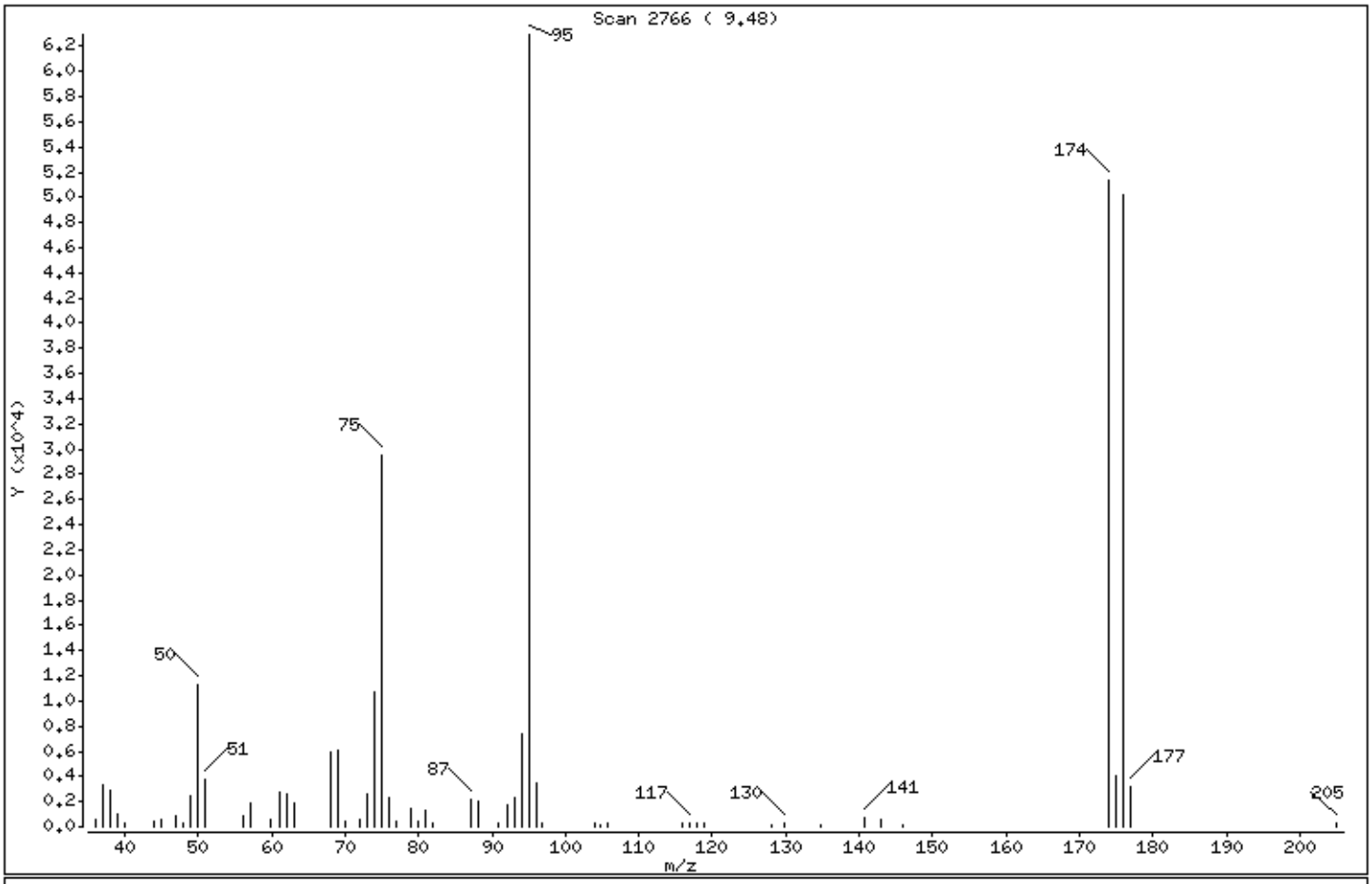
Volume Injected (uL): 2.0

Operator: AP

Column phase: DB624

Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.02
75	30.00 - 60.00% of mass 95	46.92
96	5.00 - 9.00% of mass 95	5.46
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	81.63
175	5.00 - 9.00% of mass 174	6.54 (8.01)
176	95.00 - 101.00% of mass 174	79.82 (97.79)
177	5.00 - 9.00% of mass 176	5.05 (6.33)

Data File: \\nahstws005\Target\chem\voa7.i\P240612.b\P061213.D Page 3

Date : 12-JUN-2024 15:31

Client ID: BFB Instrument: voa7.i

Sample Info: BFB

Volume Injected (uL): 2.0 Operator: AP

Column phase: DB624 Column diameter: 0.25

Data File: P061213.D
Spectrum: Scan 2766 (9.48)
Location of Maximum: 95.00
Number of points: 58

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	631	61.00	2683	81.80	220	117.90	264
37.10	3368	62.00	2536	87.00	2220	118.90	320
38.00	2889	63.00	1845	88.00	2024	128.00	159
39.00	1070	68.00	5984	90.90	314	129.80	229
39.90	308	69.00	6126	92.00	1700	134.80	156
44.00	463	70.00	443	93.10	2297	140.70	756
45.00	640	71.90	526	94.00	7311	142.90	637
47.00	914	73.00	2603	95.00	62928	145.90	201
47.90	348	74.00	10677	96.00	3436	173.90	51368
49.00	2393	75.00	29528	96.90	240	175.00	4114
50.00	11338	76.00	2361	103.90	247	175.90	50232
51.00	3753	77.00	430	104.80	159	176.90	3180
56.00	817	78.90	1489	105.80	256	205.00	326
57.00	1878	79.80	379	115.80	217		
59.90	565	80.90	1347	116.90	322		

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061215.D Page 1
Report Date: 22-Jun-2024 12:22

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061215.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 12-JUN-2024 16:17
Operator : AP Inst ID: voa7.i
Smp Info : VSTD050
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240612.b\8260W.m
Meth Date : 22-Jun-2024 12:21 voa7.i Quant Type: ISTD
Cal Date : 12-JUN-2024 14:46 Cal File: P061211.D
Als bottle: 17 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	5.130	5.129	(1.000)	136740	50.0000	
2 Dichlorodifluoromethane	85	1.294	1.294	(0.252)	65275	46.3642	46.36
159 Dichlorofluoromethane	67	2.075	2.072	(0.405)	124235	43.9875	43.98
3 Chloromethane	50	1.448	1.451	(0.282)	101985	47.7317	47.73
4 Propionitrile	54	4.670	4.676	(0.910)	86518	477.257	477.25
5 Vinyl Chloride	62	1.535	1.535	(0.299)	88311	46.9621	46.96
6 Bromomethane	94	1.805	1.795	(0.352)	57125	47.2356	47.23
7 Chloroethane	64	1.898	1.888	(0.370)	53965	47.3974	47.39
8 Trichlorofluoromethane	101	2.114	2.110	(0.412)	115783	46.5047	46.50
9 Acrolein	56	2.516	2.515	(0.490)	5396	99.4288	99.42
10 Acetone	43	2.663	2.670	(0.519)	42444	91.1434	91.14
11 1,1-Dichloroethene	96	2.589	2.589	(0.505)	63516	48.1900	48.18
12 Isobutyl Alcohol	43	5.570	5.573	(1.086)	204098	943.843	943.84
13 Acetonitrile	39	2.959	2.959	(0.577)	93398	484.443	484.44
14 Allyl Chloride	41	2.959	2.959	(0.577)	194947	47.4209	47.42
15 Iodomethane	142	2.741	2.740	(0.534)	102030	99.1318	99.13
16 Acrylonitrile	53	3.380	3.380	(0.659)	43748	95.1164	95.11
17 Methylene Chloride	84	3.098	3.094	(0.604)	74771	47.3655	47.36
18 Methyl tert-butyl ether	73	3.377	3.380	(0.658)	163677	45.4011	45.40
19 Carbon Disulfide	76	2.795	2.795	(0.545)	401885	93.2423	93.24

20 trans-1,2-Dichloroethene	96	3.374	3.377 (0.658)	65941	45.0772	45.07
21 Vinyl Acetate	43	4.660	4.660 (0.908)	72871	96.8569	96.85

			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)
	22	1,1-Dichloroethane	63	3.866	3.863	(0.754)	140006	47.3953	47.39
	23	Chloroprene	53	3.962	3.962	(0.772)	117285	45.7166	45.71
	24	2-Butanone	43	4.593	4.589	(0.895)	57277	91.7560	91.75
	25	Methacrylonitrile	41	2.146	2.146	(0.418)	104274	46.8001	46.80(M)
	26	2,2-Dichloropropane	77	4.535	4.535	(0.884)	117138	45.6807	45.68
	27	cis-1,2-Dichloroethene	96	4.541	4.544	(0.885)	75987	46.8135	46.81
	28	Chloroform	83	4.901	4.904	(0.956)	137853	47.4882	47.48
	29	Bromochloromethane	128	4.805	4.808	(0.937)	38478	49.5704	49.57
$	30	Dibromofluoromethane	113	5.075	5.072	(0.989)	72614	49.6109	49.61
	31	1,1,1-Trichloroethane	97	5.068	5.072	(0.988)	118101	46.0558	46.05
	32	1,1-Dichloropropene	75	5.245	5.245	(0.896)	103315	47.3824	47.38
	33	1,2-Dichloroethane	62	5.493	5.493	(0.938)	114864	47.9125	47.91
	34	Carbon Tetrachloride	117	5.236	5.236	(0.895)	102345	46.0237	46.02
$	35	1,2-Dichloroethane-d4	65	5.416	5.416	(1.056)	93178	48.4460	48.44
*	36	1,4-Difluorobenzene	114	5.853	5.853	(1.000)	219663	50.0000	
	37	Benzene	78	5.458	5.457	(0.932)	279053	48.0064	48.00
	38	Trichloroethene	130	6.088	6.088	(1.040)	73571	48.1544	48.15
	39	Bromodichloromethane	83	6.570	6.570	(1.122)	105535	47.5667	47.56
	40	Methyl Methacrylate	41	6.435	6.435	(1.254)	68113	48.2157	48.21
	41	2-Chloroethylvinyl ether	63	6.853	6.856	(1.171)	61045	103.958	103.95(A)
	42	1,2-Dichloropropane	63	6.310	6.309	(1.078)	81830	48.5150	48.51
	43	2-Nitropropane	43	6.802	6.801	(1.326)	20981	44.0629	44.06
	44	Dibromomethane	93	6.419	6.419	(1.097)	45764	47.9109	47.91
	45	4-Methyl-2-Pentanone	43	7.129	7.129	(0.842)	145148	98.2361	98.23
	46	cis-1,3-Dichloropropene	75	6.978	6.978	(1.192)	115196	46.6898	46.68
*	47	Chlorobenzene-d5	117	8.467	8.467	(1.000)	203093	50.0000	
$	48	Toluene-d8	98	7.207	7.207	(0.851)	258969	51.1120	51.11
	49	Ethyl Methacrylate	69	8.043	8.043	(1.374)	64133	44.7362	44.73
	50	Toluene	91	7.265	7.264	(0.858)	294808	49.5148	49.51
	51	trans-1,3-Dichloropropene	75	6.978	6.978	(1.192)	115196	46.6898	46.68
	52	2-Hexanone	43	7.859	7.862	(0.928)	100371	97.5342	97.53
	53	1,1,2-Trichloroethane	83	7.638	7.641	(0.902)	56397	49.2153	49.21
	54	1,3-Dichloropropane	76	7.782	7.782	(0.919)	117083	49.0271	49.02
	55	Dibromochloromethane	129	7.978	7.978	(0.942)	78226	48.6503	48.65
	56	Tetrachloroethene	164	7.737	7.737	(0.914)	56267	48.4312	48.43
	57	1,2-Dibromoethane	107	8.072	8.075	(0.953)	52663	47.7974	47.79
	58	1-Chlorohexane	55	8.470	8.470	(1.447)	70152	48.0824	48.08
	59	Chlorobenzene	112	8.493	8.493	(1.003)	192140	49.2988	49.29
	60	1,1,1,2-Tetrachloroethane	131	8.564	8.567	(1.011)	70333	48.2252	48.22
	61	Ethylbenzene	106	8.583	8.586	(1.014)	99807	49.4129	49.41
	62	m,p-Xylenes	106	8.682	8.686	(1.025)	250229	98.2362	98.23
	63	o-Xylene	106	9.027	9.026	(1.066)	121781	49.7626	49.76
	64	Styrene	104	9.039	9.039	(1.068)	203350	49.2033	49.20
	66	Bromoform	173	9.207	9.206	(1.087)	49229	48.3068	48.30
	67	Isopropylbenzene	105	9.338	9.341	(1.103)	305618	49.1841	49.18
	68	1,1,2,2-Tetrachloroethane	83	9.612	9.612	(0.919)	89174	52.3342	52.33
$	69	4-Bromofluorobenzene	95	9.473	9.477	(1.119)	101176	50.7245	50.72
*	70	1,4-Dichlorobenzene-d4	152	10.457	10.460	(1.000)	100769	50.0000	
	71	1,2,3-Trichloropropane	75	9.647	9.650	(0.923)	94258	50.9025	50.90
	72	trans-1,4-Dichloro-2-butene	53	9.657	9.660	(1.140)	19524	47.1361	47.13
	73	n-Propylbenzene	91	9.689	9.692	(0.927)	372814	51.2681	51.26
	74	Bromobenzene	156	9.605	9.605	(0.919)	82882	51.3117	51.31

75	1,3,5-Trimethylbenzene	105	9.837	9.840 (0.941)	255596	49.7383	49.73
76	2-Chlorotoluene	91	9.766	9.766 (0.934)	229180	51.0998	51.09

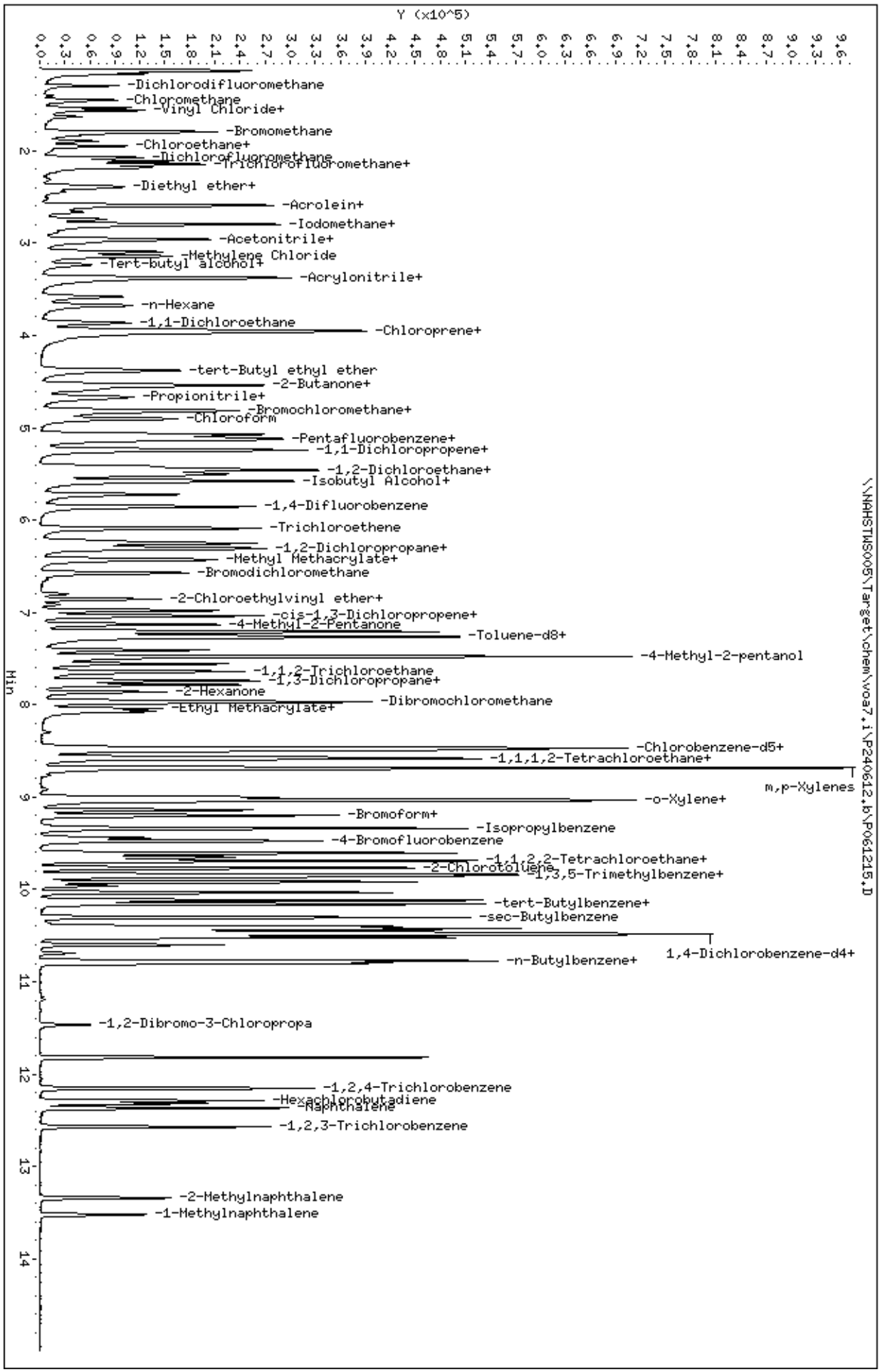
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Report Date: 22-Jun-2024 12:22

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
77	4-Chlorotoluene	91	9.859	9.859	(0.943)	264417	50.3034	50.30
78	tert-Butylbenzene	119	10.117	10.116	(0.967)	219609	51.0731	51.07
79	1,2,4-Trimethylbenzene	105	10.155	10.158	(0.971)	264287	51.2418	51.24
81	sec-Butylbenzene	105	10.303	10.303	(0.985)	306769	51.3467	51.34
82	p-Isopropyltoluene	119	10.425	10.428	(0.997)	267948	46.6696	46.66
83	1,3-Dichlorobenzene	146	10.403	10.403	(0.995)	149508	51.2384	51.23
84	1,4-Dichlorobenzene	146	10.480	10.480	(1.002)	153637	50.9085	50.90
87	n-Butylbenzene	91	10.776	10.776	(1.030)	246665	47.4107	47.41
88	1,2-Dichlorobenzene	146	10.798	10.798	(1.033)	144488	50.9551	50.95
89	1,2-Dibromo-3-Chloropropane	75	11.464	11.467	(1.096)	13568	45.4480	45.44
90	1,2,4-Trichlorobenzene	180	12.155	12.155	(1.162)	88780	49.7121	49.71
91	Hexachlorobutadiene	225	12.287	12.290	(1.175)	44763	54.6322	54.63
92	Naphthalene	128	12.367	12.367	(1.183)	196553	49.8824	49.88
93	1,2,3-Trichlorobenzene	182	12.570	12.570	(1.202)	70717	49.7440	49.74
146	Methyl acetate	43	2.991	2.991	(0.583)	49472	45.6819	45.68
138	Freon TF	101	2.589	2.593	(0.505)	65524	46.7571	46.75
139	Diethyl ether	59	2.377	2.380	(0.463)	45187	48.7925	48.79
140	1,3-Butadiene	54	1.564	1.564	(0.305)	40101	47.6191	47.61
141	Cyclohexane	56	5.107	5.110	(0.996)	105459	46.8318	46.83
147	Methylcyclohexane	83	6.252	6.252	(1.068)	102950	48.0803	48.08
132	n-Butanol	56	6.249	6.252	(1.218)	41123	898.340	898.34(T)
131	Methyl Acrylate	55	4.689	4.689	(0.914)	68482	47.7982	47.79
133	Ethyl Acrylate	55	6.245	6.248	(1.217)	174212	44.9887	44.98(M)
136	n-Hexane	57	3.676	3.673	(0.717)	71195	45.3194	45.31
142	Tetrahydrofuran	42	4.856	4.859	(0.947)	21606	89.1382	89.13
148	Tert-butyl alcohol	59	3.233	3.242	(0.630)	90384	991.593	991.59
149	Isopropyl alcohol	45	2.815	2.821	(0.549)	80560	926.990	926.99
151	4-Methyl-2-pentanol	45	7.474	7.480	(0.883)	388370	951.980	951.98
166	1,2,3-Trimethylbenzene	105	10.518	10.522	(1.006)	237133	51.9654	51.96
167	Ethanol	45	2.307	2.329	(0.450)	14272	1017.84	1017.83
172	tert-Butyl formate	59	3.233	3.242	(0.630)	90384	99.1442	99.14
173	3,3-Dimethyl-1-butanol	57	8.043	8.043	(0.950)	91238	935.894	935.89
174	tert-Amyl methyl ether	73	5.580	5.580	(1.088)	182008	49.4760	49.47
175	tert-Butyl ethyl ether	59	4.377	4.377	(0.853)	196217	49.1200	49.11
157	2-Methylnaphthalene	142	13.341	13.341	(1.276)	73102	49.3989	49.39
156	Diisopropyl ether	45	3.950	3.949	(0.770)	235613	48.1062	48.10
171	1-Methylnaphthalene	142	13.518	13.525	(1.293)	58987	49.0978	49.09
130	Ethyl Acetate	43	3.943	3.946	(0.769)	428860	46.6710	46.67
176	tert-Amyl alcohol	59	5.512	5.518	(1.075)	90306	991.348	991.34(A)
160	Epichlorohydrin	57	6.914	6.914	(1.181)	17186	208.280	208.28
161	Butyl acrylate	55	8.998	8.997	(1.063)	160975	48.2822	48.28
182	Isobutylene	56	1.950	1.946	(0.380)	9821	48.5385	48.53(AM)
183	Isopropyl Acetate	43	5.570	5.573	(0.952)	204098	48.4259	48.42(A)
184	n-Amyl acetate	43	9.194	9.197	(1.086)	145207	45.5831	45.58(A)
185	Acetaldehyde	44	1.631	1.631	(0.318)	65966	190.133	190.13(AM)
M 94	1,2-Dichloroethylene (total)	96				141928	91.8907	91.89
M 95	Xylenes (total)	106				372010	147.999	147.99

QC Flag Legend

T - Target compound detected outside RT window.

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.



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Sample Info: VSTD050
Purge Volume: 5.0
Column phase: DB624

Instrument: voa7,i
Operator: AP
Column diameter: 0.18

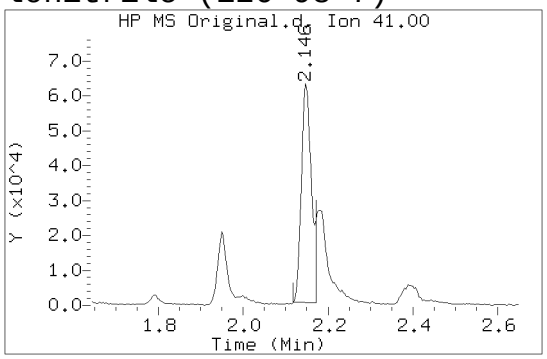
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LabSampID : VSTD050

Methacrylonitrile (126-98-7)

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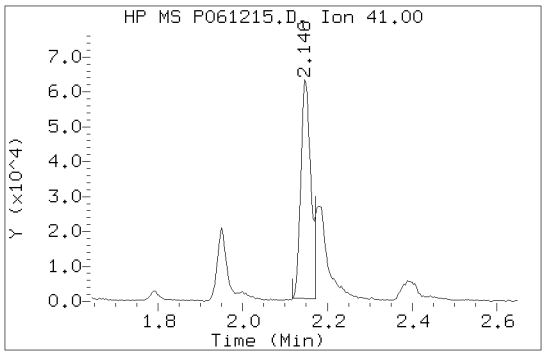
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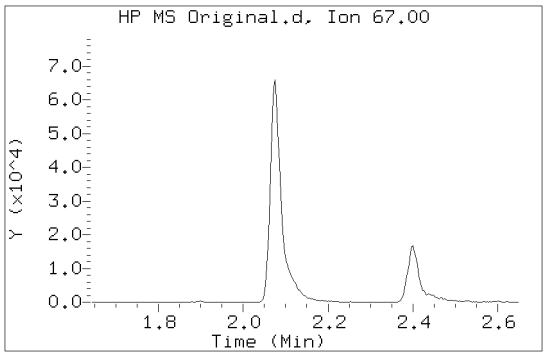
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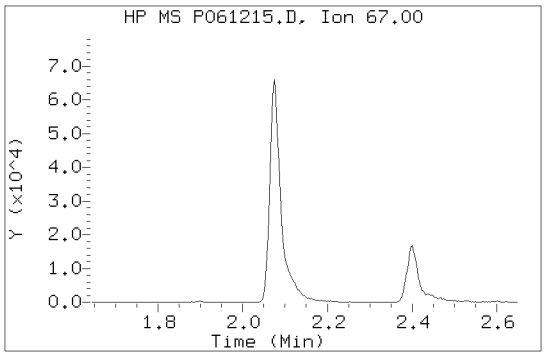
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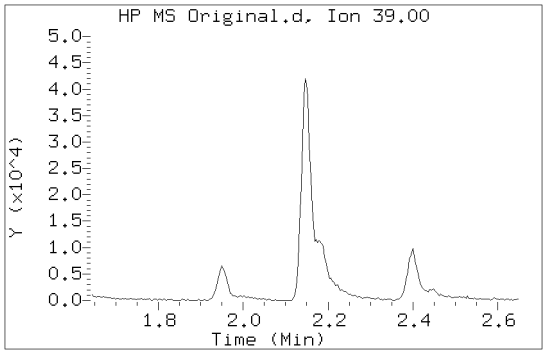
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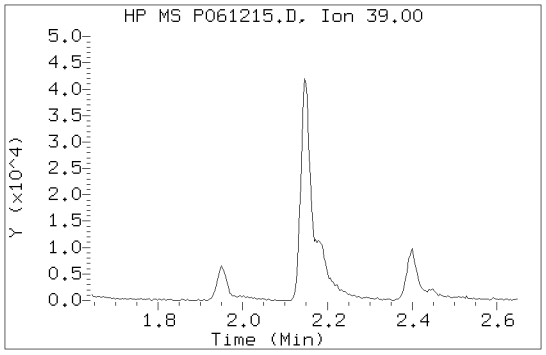
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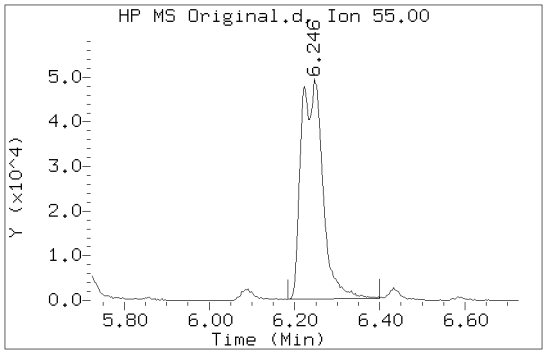


Ethyl Acrylate (140-88-5)

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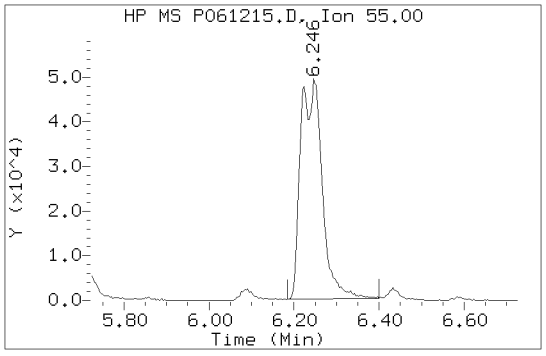
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AFTER

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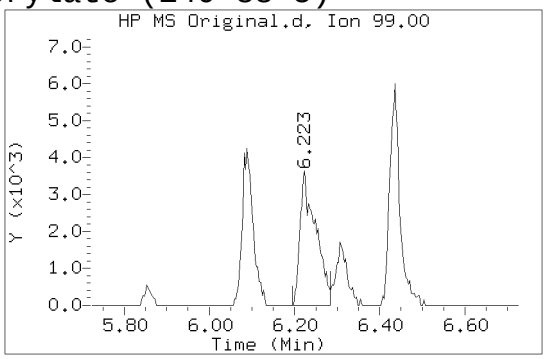
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InstruID : voa7.i
LabSampID : VSTD050

Ethyl Acrylate (140-88-5)

Reason Code:

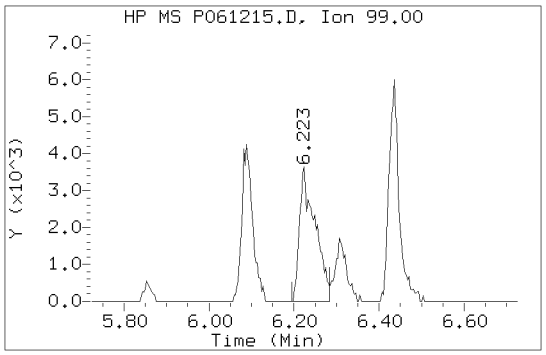
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AFTER

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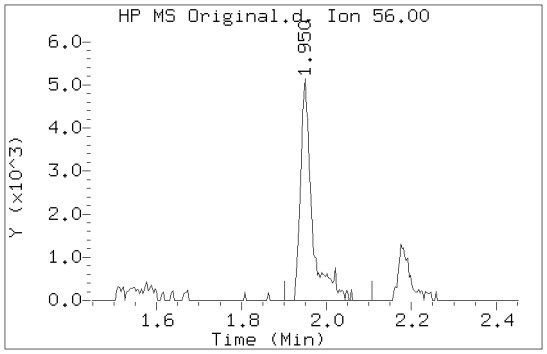


Isobutylene (115-11-7)

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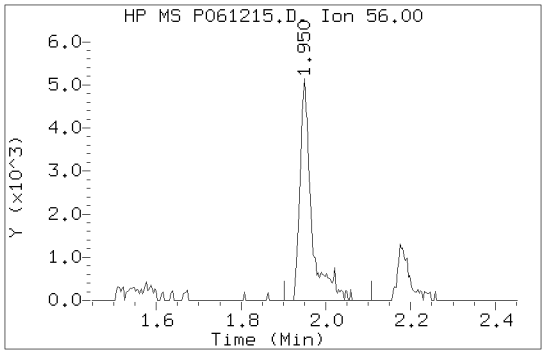
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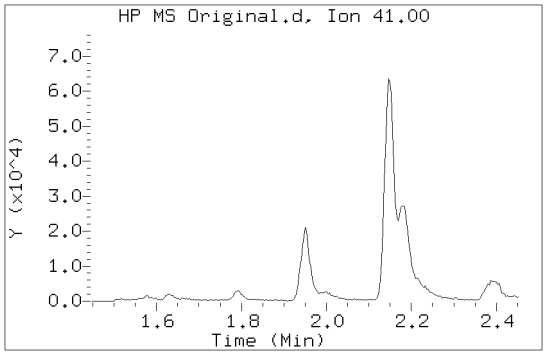
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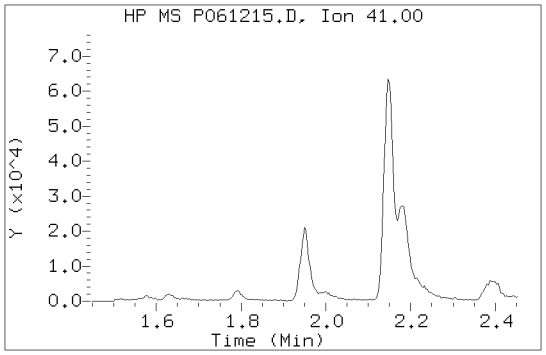
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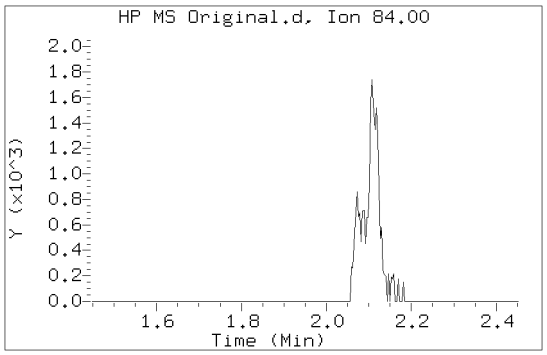
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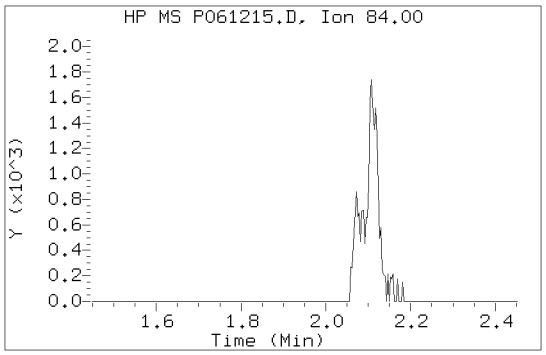
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AFTER

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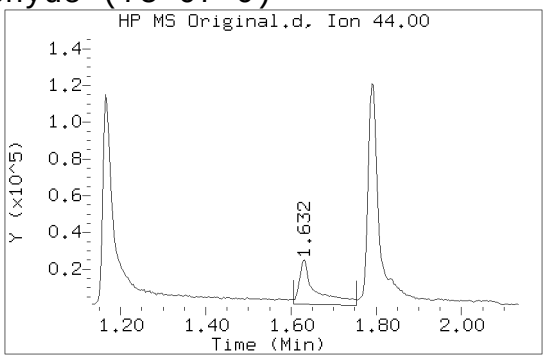
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InstruID : voa7.i
LabSampID : VSTD050

Acetaldehyde (75-07-0)

Reason Code:

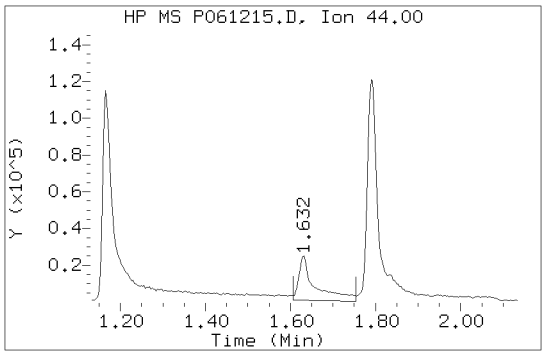
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PATEL



AFTER

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65966
HEIGHT
24165
22-Jun-2024
12:21
RUCHA
PATEL



right solutions.
right partner.

RawData

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Workorder

HS24051959

Client

Bhate Environmental Associates, Inc.

Project

LHAAP-58

07/03/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

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Report Date: 13-Jun-2024 09:46

ALS Laboratory Group

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Smp Info : BFB
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Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAHSTW7066

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	2.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/l)		
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9.473	9.474	(0.000)	50	11338			15.00- 40.00	18.02
9.473	9.474	(0.000)	75	29528			30.00- 60.00	46.92
9.473	9.474	(0.000)	96	3436			5.00- 9.00	5.46
9.473	9.474	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
9.473	9.474	(0.000)	174	51368			50.00- 0.00	81.63
9.473	9.474	(0.000)	175	4114			5.00- 9.00	8.01
9.473	9.474	(0.000)	176	50232			95.00- 101.00	97.79
9.473	9.474	(0.000)	177	3180			5.00- 9.00	6.33

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.02
75	30.00 - 60.00% of mass 95	46.92
96	5.00 - 9.00% of mass 95	5.46
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	81.63
175	5.00 - 9.00% of mass 174	6.54 (8.01)
176	95.00 - 101.00% of mass 174	79.82 (97.79)
177	5.00 - 9.00% of mass 176	5.05 (6.33)

Data File: P061213.D
Spectrum: Scan 2766 (9.48)
Location of Maximum: 95.00
Number of points: 58

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	631	61.00	2683	81.80	220	117.90	264
37.10	3368	62.00	2536	87.00	2220	118.90	320
38.00	2889	63.00	1845	88.00	2024	128.00	159
39.00	1070	68.00	5984	90.90	314	129.80	229
39.90	308	69.00	6126	92.00	1700	134.80	156
44.00	463	70.00	443	93.10	2297	140.70	756
45.00	640	71.90	526	94.00	7311	142.90	637
47.00	914	73.00	2603	95.00	62928	145.90	201
47.90	348	74.00	10677	96.00	3436	173.90	51368
49.00	2393	75.00	29528	96.90	240	175.00	4114
50.00	11338	76.00	2361	103.90	247	175.90	50232
51.00	3753	77.00	430	104.80	159	176.90	3180
56.00	817	78.90	1489	105.80	256	205.00	326
57.00	1878	79.80	379	115.80	217		
59.90	565	80.90	1347	116.90	322		

Data File: \\nahstws005\Target\chem\voa7.i\P240612.b\P061213.D Page 1

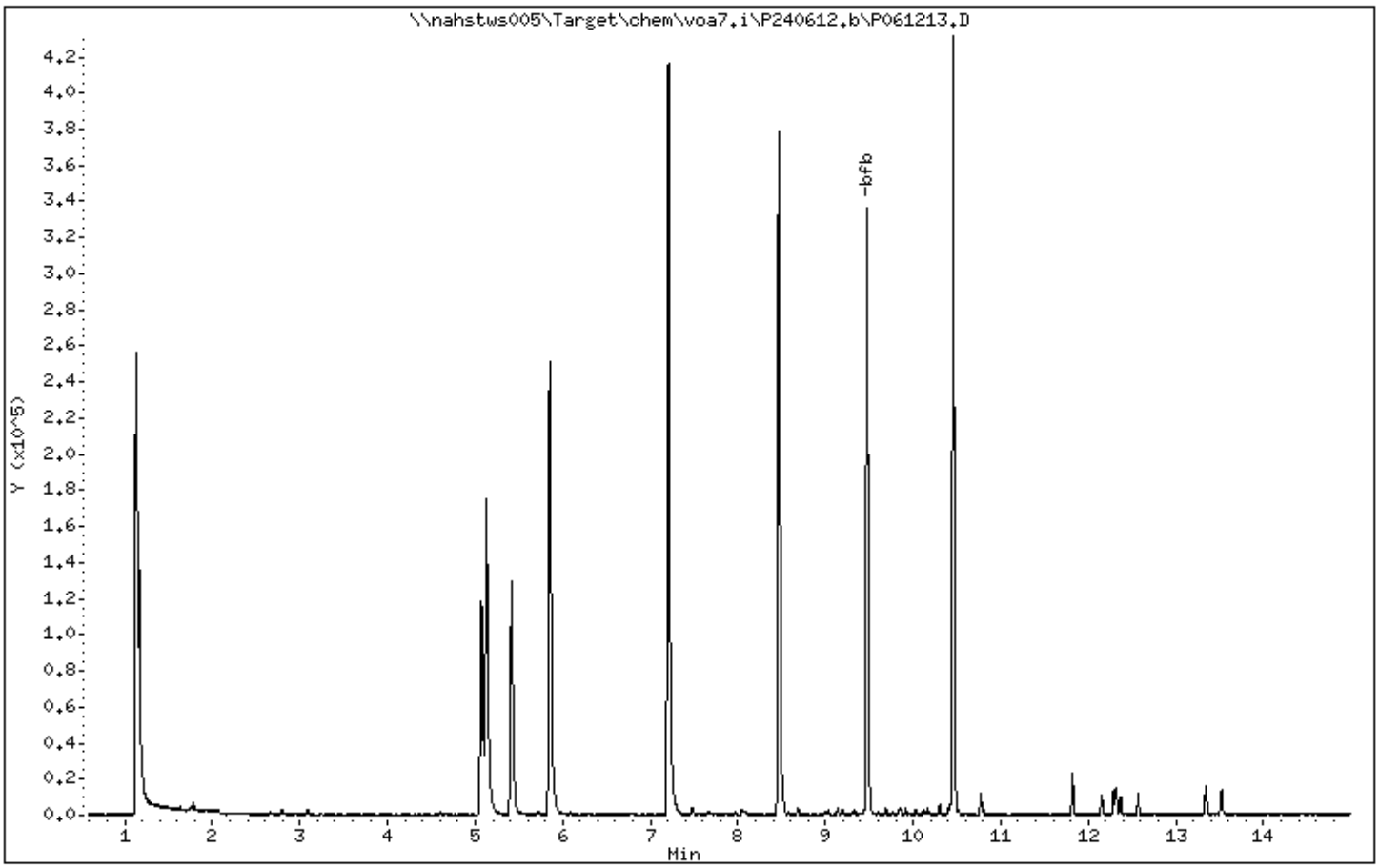
Date : 12-JUN-2024 15:31

Client ID: BFB Instrument: voa7.i

Sample Info: BFB

Volume Injected (uL): 2.0 Operator: AP

Column phase: DB624 Column diameter: 0.25



Data File: \\nahstws005\Target\chem\voa7.i\P240612.b\P061213.D

Date : 12-JUN-2024 15:31

Client ID: BFB

Instrument: voa7.i

Sample Info: BFB

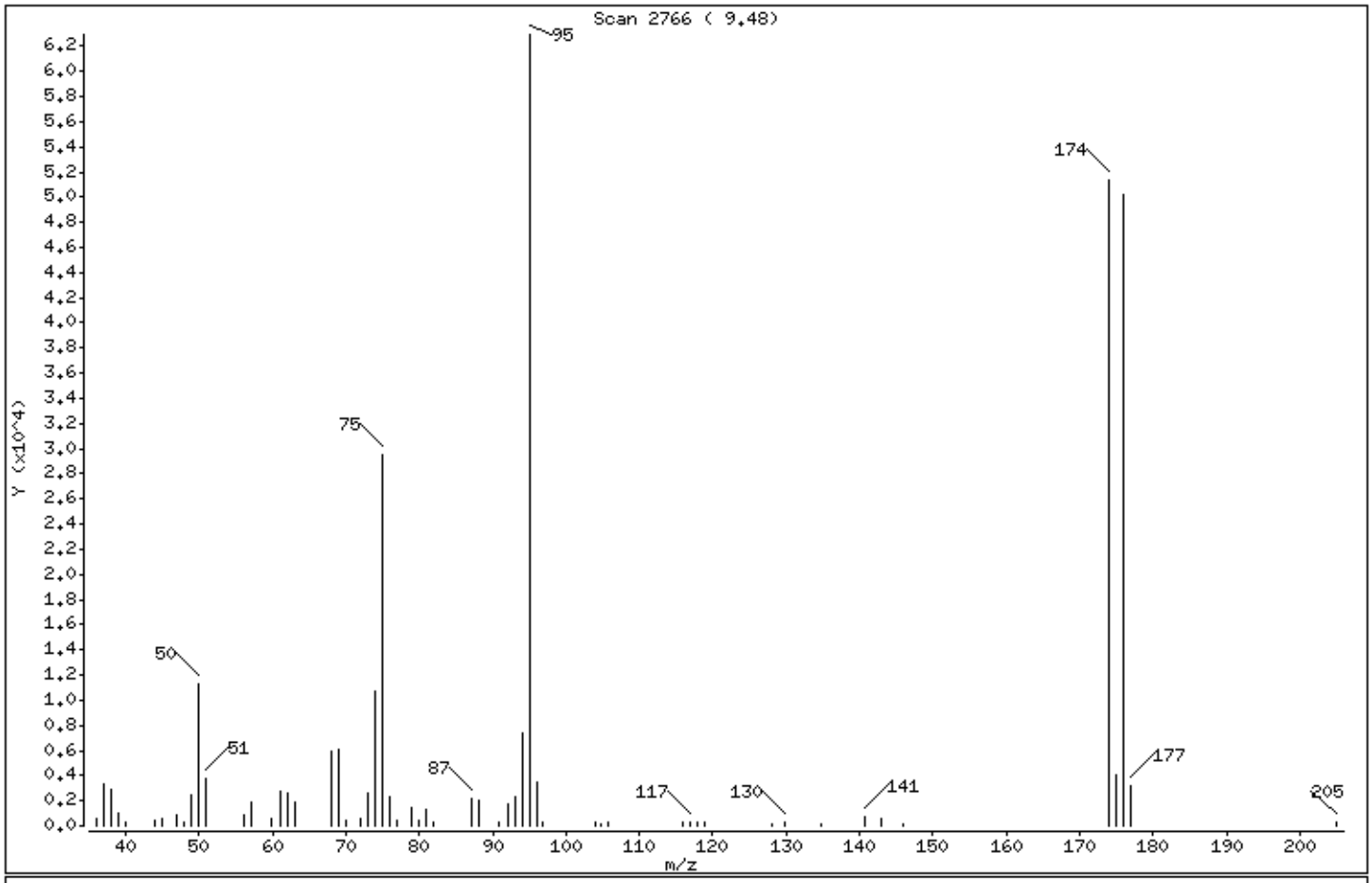
Volume Injected (uL): 2.0

Operator: AP

Column phase: DB624

Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.02
75	30.00 - 60.00% of mass 95	46.92
96	5.00 - 9.00% of mass 95	5.46
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	81.63
175	5.00 - 9.00% of mass 174	6.54 (8.01)
176	95.00 - 101.00% of mass 174	79.82 (97.79)
177	5.00 - 9.00% of mass 176	5.05 (6.33)

Data File: \\nahstws005\Target\chem\voa7.i\P240612.b\P061213.D Page 3

Date : 12-JUN-2024 15:31

Client ID: BFB Instrument: voa7.i

Sample Info: BFB

Volume Injected (uL): 2.0 Operator: AP

Column phase: DB624 Column diameter: 0.25

Data File: P061213.D
Spectrum: Scan 2766 (9.48)
Location of Maximum: 95.00
Number of points: 58

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	631	61.00	2683	81.80	220	117.90	264
37.10	3368	62.00	2536	87.00	2220	118.90	320
38.00	2889	63.00	1845	88.00	2024	128.00	159
39.00	1070	68.00	5984	90.90	314	129.80	229
39.90	308	69.00	6126	92.00	1700	134.80	156
44.00	463	70.00	443	93.10	2297	140.70	756
45.00	640	71.90	526	94.00	7311	142.90	637
47.00	914	73.00	2603	95.00	62928	145.90	201
47.90	348	74.00	10677	96.00	3436	173.90	51368
49.00	2393	75.00	29528	96.90	240	175.00	4114
50.00	11338	76.00	2361	103.90	247	175.90	50232
51.00	3753	77.00	430	104.80	159	176.90	3180
56.00	817	78.90	1489	105.80	256	205.00	326
57.00	1878	79.80	379	115.80	217		
59.90	565	80.90	1347	116.90	322		

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061215.D Page 1
Report Date: 22-Jun-2024 12:22

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061215.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 12-JUN-2024 16:17
Operator : AP Inst ID: voa7.i
Smp Info : VSTD050
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240612.b\8260W.m
Meth Date : 22-Jun-2024 12:21 voa7.i Quant Type: ISTD
Cal Date : 12-JUN-2024 14:46 Cal File: P061211.D
Als bottle: 17 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	5.130	5.129	(1.000)	136740	50.0000	
2 Dichlorodifluoromethane	85	1.294	1.294	(0.252)	65275	46.3642	46.36
159 Dichlorofluoromethane	67	2.075	2.072	(0.405)	124235	43.9875	43.98
3 Chloromethane	50	1.448	1.451	(0.282)	101985	47.7317	47.73
4 Propionitrile	54	4.670	4.676	(0.910)	86518	477.257	477.25
5 Vinyl Chloride	62	1.535	1.535	(0.299)	88311	46.9621	46.96
6 Bromomethane	94	1.805	1.795	(0.352)	57125	47.2356	47.23
7 Chloroethane	64	1.898	1.888	(0.370)	53965	47.3974	47.39
8 Trichlorofluoromethane	101	2.114	2.110	(0.412)	115783	46.5047	46.50
9 Acrolein	56	2.516	2.515	(0.490)	5396	99.4288	99.42
10 Acetone	43	2.663	2.670	(0.519)	42444	91.1434	91.14
11 1,1-Dichloroethene	96	2.589	2.589	(0.505)	63516	48.1900	48.18
12 Isobutyl Alcohol	43	5.570	5.573	(1.086)	204098	943.843	943.84
13 Acetonitrile	39	2.959	2.959	(0.577)	93398	484.443	484.44
14 Allyl Chloride	41	2.959	2.959	(0.577)	194947	47.4209	47.42
15 Iodomethane	142	2.741	2.740	(0.534)	102030	99.1318	99.13
16 Acrylonitrile	53	3.380	3.380	(0.659)	43748	95.1164	95.11
17 Methylene Chloride	84	3.098	3.094	(0.604)	74771	47.3655	47.36
18 Methyl tert-butyl ether	73	3.377	3.380	(0.658)	163677	45.4011	45.40
19 Carbon Disulfide	76	2.795	2.795	(0.545)	401885	93.2423	93.24

20 trans-1,2-Dichloroethene	96	3.374	3.377 (0.658)	65941	45.0772	45.07
21 Vinyl Acetate	43	4.660	4.660 (0.908)	72871	96.8569	96.85

			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)
	22	1,1-Dichloroethane	63	3.866	3.863	(0.754)	140006	47.3953	47.39
	23	Chloroprene	53	3.962	3.962	(0.772)	117285	45.7166	45.71
	24	2-Butanone	43	4.593	4.589	(0.895)	57277	91.7560	91.75
	25	Methacrylonitrile	41	2.146	2.146	(0.418)	104274	46.8001	46.80(M)
	26	2,2-Dichloropropane	77	4.535	4.535	(0.884)	117138	45.6807	45.68
	27	cis-1,2-Dichloroethene	96	4.541	4.544	(0.885)	75987	46.8135	46.81
	28	Chloroform	83	4.901	4.904	(0.956)	137853	47.4882	47.48
	29	Bromochloromethane	128	4.805	4.808	(0.937)	38478	49.5704	49.57
$	30	Dibromofluoromethane	113	5.075	5.072	(0.989)	72614	49.6109	49.61
	31	1,1,1-Trichloroethane	97	5.068	5.072	(0.988)	118101	46.0558	46.05
	32	1,1-Dichloropropene	75	5.245	5.245	(0.896)	103315	47.3824	47.38
	33	1,2-Dichloroethane	62	5.493	5.493	(0.938)	114864	47.9125	47.91
	34	Carbon Tetrachloride	117	5.236	5.236	(0.895)	102345	46.0237	46.02
$	35	1,2-Dichloroethane-d4	65	5.416	5.416	(1.056)	93178	48.4460	48.44
*	36	1,4-Difluorobenzene	114	5.853	5.853	(1.000)	219663	50.0000	
	37	Benzene	78	5.458	5.457	(0.932)	279053	48.0064	48.00
	38	Trichloroethene	130	6.088	6.088	(1.040)	73571	48.1544	48.15
	39	Bromodichloromethane	83	6.570	6.570	(1.122)	105535	47.5667	47.56
	40	Methyl Methacrylate	41	6.435	6.435	(1.254)	68113	48.2157	48.21
	41	2-Chloroethylvinyl ether	63	6.853	6.856	(1.171)	61045	103.958	103.95(A)
	42	1,2-Dichloropropane	63	6.310	6.309	(1.078)	81830	48.5150	48.51
	43	2-Nitropropane	43	6.802	6.801	(1.326)	20981	44.0629	44.06
	44	Dibromomethane	93	6.419	6.419	(1.097)	45764	47.9109	47.91
	45	4-Methyl-2-Pentanone	43	7.129	7.129	(0.842)	145148	98.2361	98.23
	46	cis-1,3-Dichloropropene	75	6.978	6.978	(1.192)	115196	46.6898	46.68
*	47	Chlorobenzene-d5	117	8.467	8.467	(1.000)	203093	50.0000	
$	48	Toluene-d8	98	7.207	7.207	(0.851)	258969	51.1120	51.11
	49	Ethyl Methacrylate	69	8.043	8.043	(1.374)	64133	44.7362	44.73
	50	Toluene	91	7.265	7.264	(0.858)	294808	49.5148	49.51
	51	trans-1,3-Dichloropropene	75	6.978	6.978	(1.192)	115196	46.6898	46.68
	52	2-Hexanone	43	7.859	7.862	(0.928)	100371	97.5342	97.53
	53	1,1,2-Trichloroethane	83	7.638	7.641	(0.902)	56397	49.2153	49.21
	54	1,3-Dichloropropane	76	7.782	7.782	(0.919)	117083	49.0271	49.02
	55	Dibromochloromethane	129	7.978	7.978	(0.942)	78226	48.6503	48.65
	56	Tetrachloroethene	164	7.737	7.737	(0.914)	56267	48.4312	48.43
	57	1,2-Dibromoethane	107	8.072	8.075	(0.953)	52663	47.7974	47.79
	58	1-Chlorohexane	55	8.470	8.470	(1.447)	70152	48.0824	48.08
	59	Chlorobenzene	112	8.493	8.493	(1.003)	192140	49.2988	49.29
	60	1,1,1,2-Tetrachloroethane	131	8.564	8.567	(1.011)	70333	48.2252	48.22
	61	Ethylbenzene	106	8.583	8.586	(1.014)	99807	49.4129	49.41
	62	m,p-Xylenes	106	8.682	8.686	(1.025)	250229	98.2362	98.23
	63	o-Xylene	106	9.027	9.026	(1.066)	121781	49.7626	49.76
	64	Styrene	104	9.039	9.039	(1.068)	203350	49.2033	49.20
	66	Bromoform	173	9.207	9.206	(1.087)	49229	48.3068	48.30
	67	Isopropylbenzene	105	9.338	9.341	(1.103)	305618	49.1841	49.18
	68	1,1,2,2-Tetrachloroethane	83	9.612	9.612	(0.919)	89174	52.3342	52.33
$	69	4-Bromofluorobenzene	95	9.473	9.477	(1.119)	101176	50.7245	50.72
*	70	1,4-Dichlorobenzene-d4	152	10.457	10.460	(1.000)	100769	50.0000	
	71	1,2,3-Trichloropropane	75	9.647	9.650	(0.923)	94258	50.9025	50.90
	72	trans-1,4-Dichloro-2-butene	53	9.657	9.660	(1.140)	19524	47.1361	47.13
	73	n-Propylbenzene	91	9.689	9.692	(0.927)	372814	51.2681	51.26
	74	Bromobenzene	156	9.605	9.605	(0.919)	82882	51.3117	51.31

75	1,3,5-Trimethylbenzene	105	9.837	9.840 (0.941)	255596	49.7383	49.73
76	2-Chlorotoluene	91	9.766	9.766 (0.934)	229180	51.0998	51.09

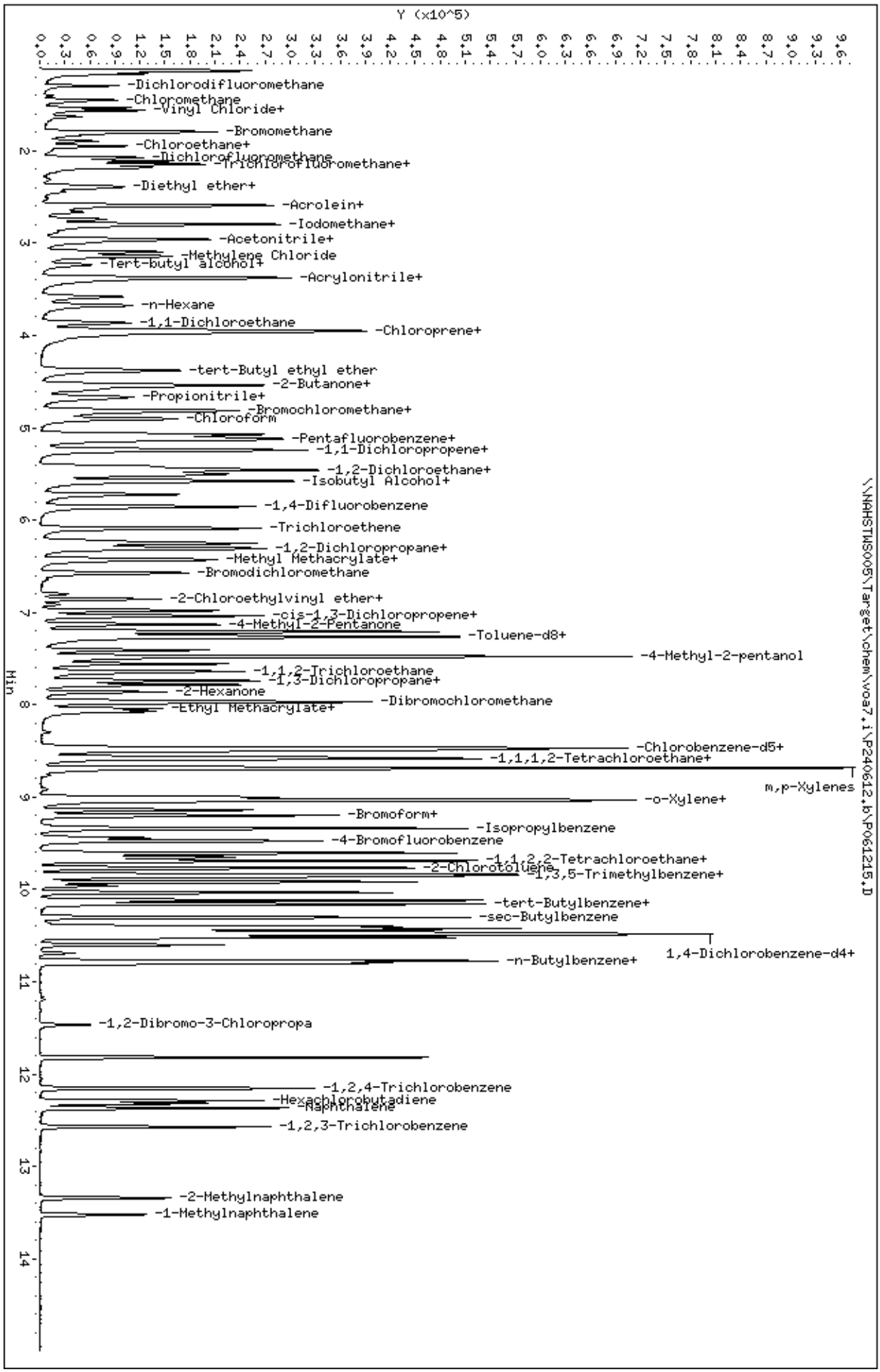
Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061215.D Page 3
Report Date: 22-Jun-2024 12:22

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
77	4-Chlorotoluene	91	9.859	9.859	(0.943)	264417	50.3034	50.30
78	tert-Butylbenzene	119	10.117	10.116	(0.967)	219609	51.0731	51.07
79	1,2,4-Trimethylbenzene	105	10.155	10.158	(0.971)	264287	51.2418	51.24
81	sec-Butylbenzene	105	10.303	10.303	(0.985)	306769	51.3467	51.34
82	p-Isopropyltoluene	119	10.425	10.428	(0.997)	267948	46.6696	46.66
83	1,3-Dichlorobenzene	146	10.403	10.403	(0.995)	149508	51.2384	51.23
84	1,4-Dichlorobenzene	146	10.480	10.480	(1.002)	153637	50.9085	50.90
87	n-Butylbenzene	91	10.776	10.776	(1.030)	246665	47.4107	47.41
88	1,2-Dichlorobenzene	146	10.798	10.798	(1.033)	144488	50.9551	50.95
89	1,2-Dibromo-3-Chloropropane	75	11.464	11.467	(1.096)	13568	45.4480	45.44
90	1,2,4-Trichlorobenzene	180	12.155	12.155	(1.162)	88780	49.7121	49.71
91	Hexachlorobutadiene	225	12.287	12.290	(1.175)	44763	54.6322	54.63
92	Naphthalene	128	12.367	12.367	(1.183)	196553	49.8824	49.88
93	1,2,3-Trichlorobenzene	182	12.570	12.570	(1.202)	70717	49.7440	49.74
146	Methyl acetate	43	2.991	2.991	(0.583)	49472	45.6819	45.68
138	Freon TF	101	2.589	2.593	(0.505)	65524	46.7571	46.75
139	Diethyl ether	59	2.377	2.380	(0.463)	45187	48.7925	48.79
140	1,3-Butadiene	54	1.564	1.564	(0.305)	40101	47.6191	47.61
141	Cyclohexane	56	5.107	5.110	(0.996)	105459	46.8318	46.83
147	Methylcyclohexane	83	6.252	6.252	(1.068)	102950	48.0803	48.08
132	n-Butanol	56	6.249	6.252	(1.218)	41123	898.340	898.34(T)
131	Methyl Acrylate	55	4.689	4.689	(0.914)	68482	47.7982	47.79
133	Ethyl Acrylate	55	6.245	6.248	(1.217)	174212	44.9887	44.98(M)
136	n-Hexane	57	3.676	3.673	(0.717)	71195	45.3194	45.31
142	Tetrahydrofuran	42	4.856	4.859	(0.947)	21606	89.1382	89.13
148	Tert-butyl alcohol	59	3.233	3.242	(0.630)	90384	991.593	991.59
149	Isopropyl alcohol	45	2.815	2.821	(0.549)	80560	926.990	926.99
151	4-Methyl-2-pentanol	45	7.474	7.480	(0.883)	388370	951.980	951.98
166	1,2,3-Trimethylbenzene	105	10.518	10.522	(1.006)	237133	51.9654	51.96
167	Ethanol	45	2.307	2.329	(0.450)	14272	1017.84	1017.83
172	tert-Butyl formate	59	3.233	3.242	(0.630)	90384	99.1442	99.14
173	3,3-Dimethyl-1-butanol	57	8.043	8.043	(0.950)	91238	935.894	935.89
174	tert-Amyl methyl ether	73	5.580	5.580	(1.088)	182008	49.4760	49.47
175	tert-Butyl ethyl ether	59	4.377	4.377	(0.853)	196217	49.1200	49.11
157	2-Methylnaphthalene	142	13.341	13.341	(1.276)	73102	49.3989	49.39
156	Diisopropyl ether	45	3.950	3.949	(0.770)	235613	48.1062	48.10
171	1-Methylnaphthalene	142	13.518	13.525	(1.293)	58987	49.0978	49.09
130	Ethyl Acetate	43	3.943	3.946	(0.769)	428860	46.6710	46.67
176	tert-Amyl alcohol	59	5.512	5.518	(1.075)	90306	991.348	991.34(A)
160	Epichlorohydrin	57	6.914	6.914	(1.181)	17186	208.280	208.28
161	Butyl acrylate	55	8.998	8.997	(1.063)	160975	48.2822	48.28
182	Isobutylene	56	1.950	1.946	(0.380)	9821	48.5385	48.53(AM)
183	Isopropyl Acetate	43	5.570	5.573	(0.952)	204098	48.4259	48.42(A)
184	n-Amyl acetate	43	9.194	9.197	(1.086)	145207	45.5831	45.58(A)
185	Acetaldehyde	44	1.631	1.631	(0.318)	65966	190.133	190.13(AM)
M 94	1,2-Dichloroethylene (total)	96				141928	91.8907	91.89
M 95	Xylenes (total)	106				372010	147.999	147.99

QC Flag Legend

T - Target compound detected outside RT window.

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa7,i\P240612,b\P061215,D
Date : 12-JUN-2024 16:17
Client ID: VSTD050
Sample Info: VSTD050
Purge Volume: 5.0
Column phase: DB624

Instrument: voa7,i
Operator: AP
Column diameter: 0.18

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061216.D Page 1
Report Date: 22-Jun-2024 12:22

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061216.D
Lab Smp Id: VLCSW-240612 Client Smp ID: VLCSW-240612
Inj Date : 12-JUN-2024 16:40
Operator : AP Inst ID: voa7.i
Smp Info : VLCSW-240612;VLCSW-240612;3;;LCS
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240612.b\8260W.m
Meth Date : 22-Jun-2024 12:21 voa7.i Quant Type: ISTD
Cal Date : 12-JUN-2024 14:46 Cal File: P061211.D
Als bottle: 17 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	5.130	5.129	(1.000)	134291	50.0000	
2 Dichlorodifluoromethane	85	1.297	1.294	(0.253)	26703	19.1909	19.19
159 Dichlorofluoromethane	67	2.075	2.072	(0.405)	51562	18.5893	18.58
3 Chloromethane	50	1.448	1.451	(0.282)	42788	19.9517	19.95
4 Propionitrile	54	4.673	4.676	(0.911)	36612	202.651	202.65
5 Vinyl Chloride	62	1.535	1.535	(0.299)	37849	20.4098	20.40
6 Bromomethane	94	1.805	1.795	(0.352)	23483	18.5655	18.56
7 Chloroethane	64	1.895	1.888	(0.369)	22757	20.1159	20.11
8 Trichlorofluoromethane	101	2.114	2.110	(0.412)	46751	19.2667	19.26
9 Acrolein	56	2.515	2.515	(0.490)	2012	39.3333	39.33
10 Acetone	43	2.667	2.670	(0.520)	19649	39.5782	39.57
11 1,1-Dichloroethene	96	2.593	2.589	(0.505)	25325	19.5646	19.56
12 Isobutyl Alcohol	43	5.570	5.573	(1.086)	88241	406.580	406.57
13 Acetonitrile	39	2.959	2.959	(0.577)	37220	195.132	195.13
14 Allyl Chloride	41	2.959	2.959	(0.577)	84290	20.6549	20.65
15 Iodomethane	142	2.744	2.740	(0.535)	37316	41.1919	41.19
16 Acrylonitrile	53	3.380	3.380	(0.659)	18739	41.2365	41.23
17 Methylene Chloride	84	3.094	3.094	(0.603)	32456	20.2240	20.22
18 Methyl tert-butyl ether	73	3.380	3.380	(0.659)	67177	19.5130	19.51
19 Carbon Disulfide	76	2.795	2.795	(0.545)	168823	40.1089	40.10

20 trans-1,2-Dichloroethene	96	3.377	3.377 (0.658)	27209	18.9392	18.93
21 Vinyl Acetate	43	4.657	4.660 (0.908)	30993	40.8390	40.83

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
22	1,1-Dichloroethane	63	3.863	3.863	(0.753)	57612	19.7979	19.79
23	Chloroprene	53	3.962	3.962	(0.772)	48750	19.3488	19.34
24	2-Butanone	43	4.596	4.589	(0.896)	27313	43.1290	43.12
25	Methacrylonitrile	41	2.149	2.146	(0.419)	40282	19.0965	19.09(M)
26	2,2-Dichloropropane	77	4.535	4.535	(0.884)	46603	18.8046	18.80
27	cis-1,2-Dichloroethene	96	4.544	4.544	(0.886)	31558	19.8065	19.80
28	Chloroform	83	4.908	4.904	(0.957)	56687	19.7174	19.71
29	Bromochloromethane	128	4.808	4.808	(0.937)	15181	19.5562	19.55
$ 30	Dibromofluoromethane	113	5.075	5.072	(0.989)	71217	49.5431	49.54
31	1,1,1-Trichloroethane	97	5.072	5.072	(0.989)	47829	19.2752	19.27
32	1,1-Dichloropropene	75	5.245	5.245	(0.896)	42551	19.9520	19.95
33	1,2-Dichloroethane	62	5.493	5.493	(0.938)	47487	19.8540	19.85
34	Carbon Tetrachloride	117	5.236	5.236	(0.895)	40841	19.0166	19.01
$ 35	1,2-Dichloroethane-d4	65	5.416	5.416	(1.056)	96502	51.1325	51.13
* 36	1,4-Difluorobenzene	114	5.853	5.853	(1.000)	216595	50.0000	
37	Benzene	78	5.457	5.457	(0.932)	117554	20.3268	20.32
38	Trichloroethene	130	6.084	6.088	(1.040)	30717	20.3875	20.38
39	Bromodichloromethane	83	6.570	6.570	(1.122)	42170	19.3073	19.30
40	Methyl Methacrylate	41	6.432	6.435	(1.254)	29371	20.4364	20.43
41	2-Chloroethylvinyl ether	63	6.856	6.856	(1.171)	24409	42.7314	42.73
42	1,2-Dichloropropane	63	6.310	6.309	(1.078)	33802	20.2385	20.23
43	2-Nitropropane	43	6.801	6.801	(1.326)	8950	19.4714	19.47
44	Dibromomethane	93	6.419	6.419	(1.097)	18945	20.0263	20.02
45	4-Methyl-2-Pentanone	43	7.129	7.129	(0.842)	63787	41.8403	41.84
46	cis-1,3-Dichloropropene	75	6.978	6.978	(1.192)	46726	19.6566	19.65
* 47	Chlorobenzene-d5	117	8.467	8.467	(1.000)	203052	50.0000	
$ 48	Toluene-d8	98	7.207	7.207	(0.851)	264629	52.2683	52.26
49	Ethyl Methacrylate	69	8.043	8.043	(1.374)	28882	21.0245	21.02
50	Toluene	91	7.264	7.264	(0.858)	123444	20.2458	20.24
51	trans-1,3-Dichloropropene	75	6.978	6.978	(1.192)	46726	19.6566	19.65
52	2-Hexanone	43	7.859	7.862	(0.928)	43481	41.0998	41.09
53	1,1,2-Trichloroethane	83	7.637	7.641	(0.902)	23567	19.8754	19.87
54	1,3-Dichloropropane	76	7.782	7.782	(0.919)	49311	20.0285	20.02
55	Dibromochloromethane	129	7.975	7.978	(0.942)	31466	19.4514	19.45
56	Tetrachloroethene	164	7.740	7.737	(0.914)	23181	19.7297	19.72
57	1,2-Dibromoethane	107	8.072	8.075	(0.953)	22762	20.0862	20.08
58	1-Chlorohexane	55	8.470	8.470	(1.447)	30773	20.3581	20.35
59	Chlorobenzene	112	8.490	8.493	(1.003)	80106	20.1049	20.10
60	1,1,1,2-Tetrachloroethane	131	8.567	8.567	(1.012)	28522	19.5488	19.54
61	Ethylbenzene	106	8.583	8.586	(1.014)	41466	20.2649	20.26
62	m,p-Xylenes	106	8.682	8.686	(1.025)	106297	41.1007	41.10
63	o-Xylene	106	9.023	9.026	(1.066)	50721	20.3441	20.34
64	Styrene	104	9.039	9.039	(1.068)	85178	20.4252	20.42
66	Bromoform	173	9.207	9.206	(1.087)	19968	19.7009	19.70
67	Isopropylbenzene	105	9.338	9.341	(1.103)	128107	20.3324	20.33
68	1,1,2,2-Tetrachloroethane	83	9.608	9.612	(0.919)	37081	20.7088	20.70
$ 69	4-Bromofluorobenzene	95	9.477	9.477	(1.119)	101115	50.7033	50.70
* 70	1,4-Dichlorobenzene-d4	152	10.457	10.460	(1.000)	100804	50.0000	
71	1,2,3-Trichloropropane	75	9.647	9.650	(0.923)	40532	20.8582	20.85
72	trans-1,4-Dichloro-2-butene	53	9.660	9.660	(1.141)	8404	20.3635	20.36
73	n-Propylbenzene	91	9.689	9.692	(0.927)	156921	20.9529	20.95
74	Bromobenzene	156	9.602	9.605	(0.918)	34798	20.6970	20.69

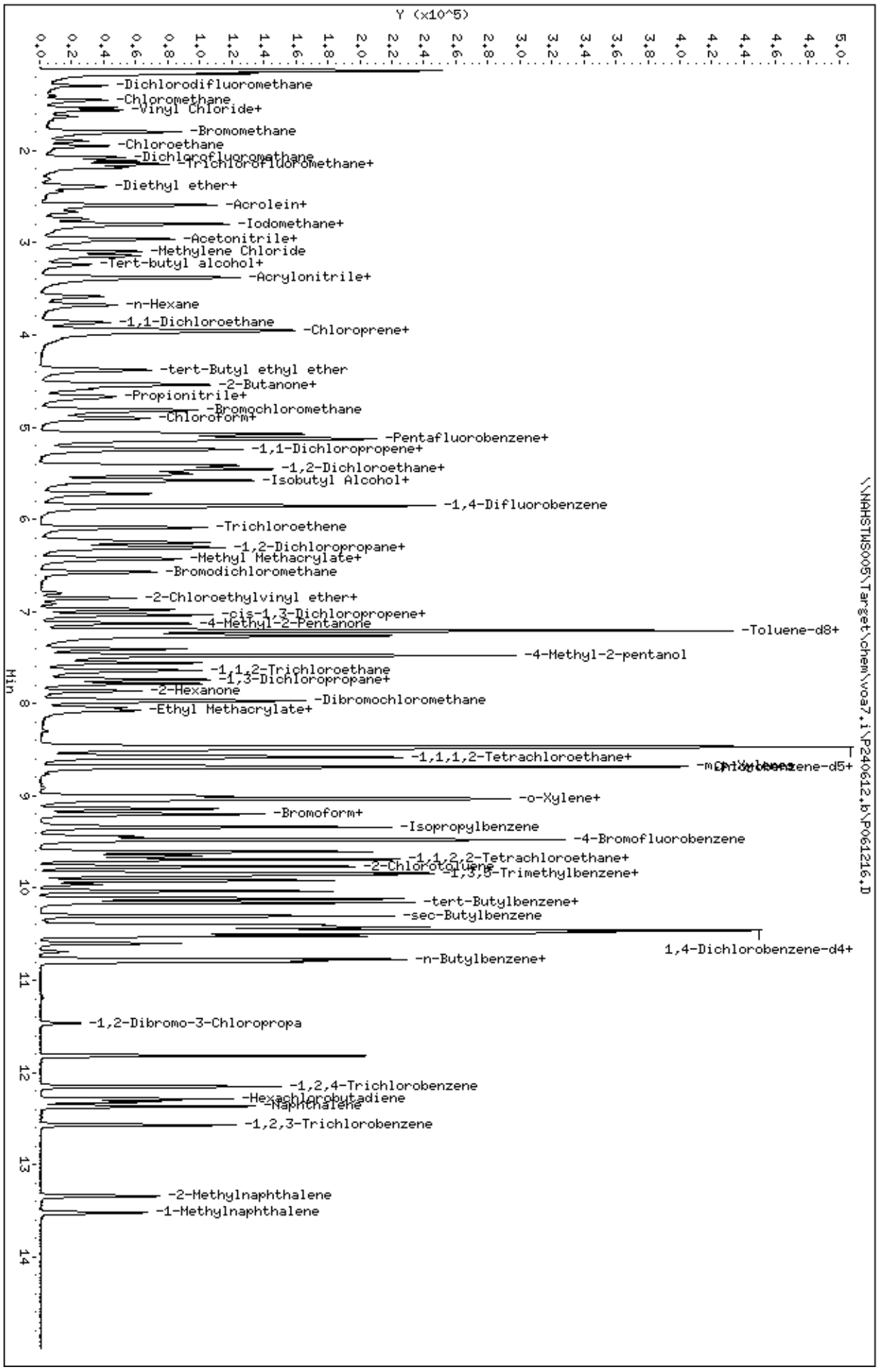
75	1,3,5-Trimethylbenzene	105	9.840	9.840 (0.941)	109357	20.8446	20.84
76	2-Chlorotoluene	91	9.766	9.766 (0.934)	97816	21.0198	21.01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
77	4-Chlorotoluene	91	9.856	9.859	(0.943)	113306	20.7834	20.78
78	tert-Butylbenzene	119	10.116	10.116	(0.967)	94560	21.3096	21.30
79	1,2,4-Trimethylbenzene	105	10.158	10.158	(0.971)	113166	21.3355	21.33
81	sec-Butylbenzene	105	10.303	10.303	(0.985)	131528	21.4351	21.43
82	p-Isopropyltoluene	119	10.425	10.428	(0.997)	113873	19.8268	19.82
83	1,3-Dichlorobenzene	146	10.403	10.403	(0.995)	62913	20.9751	20.97
84	1,4-Dichlorobenzene	146	10.477	10.480	(1.002)	65114	20.9338	20.93
87	n-Butylbenzene	91	10.772	10.776	(1.030)	108015	20.7540	20.75
88	1,2-Dichlorobenzene	146	10.798	10.798	(1.033)	60835	20.8486	20.84
89	1,2-Dibromo-3-Chloropropane	75	11.464	11.467	(1.096)	6126	20.5128	20.51
90	1,2,4-Trichlorobenzene	180	12.152	12.155	(1.162)	39696	22.2773	22.27
91	Hexachlorobutadiene	225	12.290	12.290	(1.175)	20651	25.1953	25.19
92	Naphthalene	128	12.367	12.367	(1.183)	90347	22.9098	22.90
93	1,2,3-Trichlorobenzene	182	12.570	12.570	(1.202)	33203	23.5116	23.51
146	Methyl acetate	43	2.991	2.991	(0.583)	21781	20.0355	20.03
138	Freon TF	101	2.593	2.593	(0.505)	26225	19.4141	19.41
139	Diethyl ether	59	2.384	2.380	(0.465)	15472	17.2468	17.24
140	1,3-Butadiene	54	1.564	1.564	(0.305)	13687	17.0846	17.08
141	Cyclohexane	56	5.110	5.110	(0.996)	44340	19.8783	19.87
147	Methylcyclohexane	83	6.252	6.252	(1.068)	40532	19.8008	19.80
132	n-Butanol	56	6.252	6.252	(1.219)	12672	282.069	282.06
131	Methyl Acrylate	55	4.689	4.689	(0.914)	30072	20.9266	20.92
133	Ethyl Acrylate	55	6.223	6.248	(1.213)	75331	19.8083	19.80
136	n-Hexane	57	3.676	3.673	(0.717)	29305	19.6116	19.61
142	Tetrahydrofuran	42	4.863	4.859	(0.948)	9879	41.8637	41.86
148	Tert-butyl alcohol	59	3.236	3.242	(0.631)	42755	464.519	464.51
149	Isopropyl alcohol	45	2.815	2.821	(0.549)	34126	398.654	398.65
151	4-Methyl-2-pentanol	45	7.473	7.480	(0.883)	173921	428.265	428.26
166	1,2,3-Trimethylbenzene	105	10.522	10.522	(1.006)	101561	21.4245	21.42
167	Ethanol	45	2.313	2.329	(0.451)	6483	432.793	432.79
172	tert-Butyl formate	59	3.236	3.242	(0.631)	42755	46.3879	46.38
173	3,3-Dimethyl-1-butanol	57	8.043	8.043	(0.950)	41775	433.552	433.55
174	tert-Amyl methyl ether	73	5.580	5.580	(1.088)	78202	21.3857	21.38
175	tert-Butyl ethyl ether	59	4.380	4.377	(0.854)	80615	20.5479	20.54
157	2-Methylnaphthalene	142	13.341	13.341	(1.276)	35868	25.7711	25.77
156	Diisopropyl ether	45	3.950	3.949	(0.770)	96269	20.1250	20.12
171	1-Methylnaphthalene	142	13.521	13.525	(1.293)	31295	27.2801	27.28
130	Ethyl Acetate	43	3.946	3.946	(0.769)	172142	19.3700	19.36
176	tert-Amyl alcohol	59	5.512	5.518	(1.075)	39960	423.242	423.24(A)
160	Epichlorohydrin	57	6.917	6.914	(1.182)	7461	93.2474	93.24
161	Butyl acrylate	55	8.998	8.997	(1.063)	67009	20.3080	20.30
183	Isopropyl Acetate	43	5.570	5.573	(0.952)	88241	20.6769	20.67(A)
184	n-Amyl acetate	43	9.194	9.197	(1.086)	60294	19.4823	19.48(A)
185	Acetaldehyde	44	1.628	1.631	(0.317)	39008	90.1693	90.16(A)
M 94	1,2-Dichloroethylene (total)	96				58767	38.7457	38.74
M 95	Xylenes (total)	106				157018	61.4448	61.44

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

M - Compound response manually integrated.



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Sample Info: VLCSW-240612;VLCSW-240612;3;;LCS
Purge Volume: 5.0
Column phase: DB624

Instrument: voa7,i
Operator: AP
Column diameter: 0.18

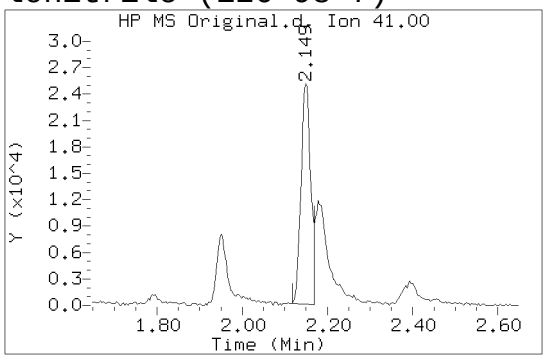
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LabSampID : VLCSW-240612

Methacrylonitrile (126-98-7)

Reason Code:

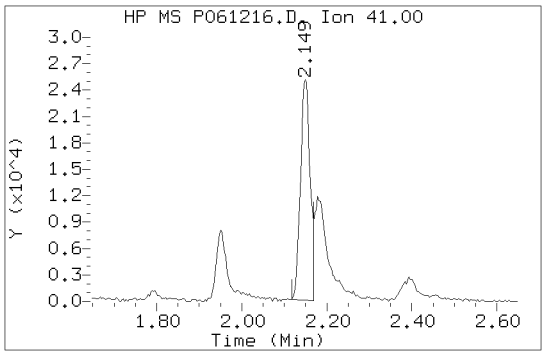
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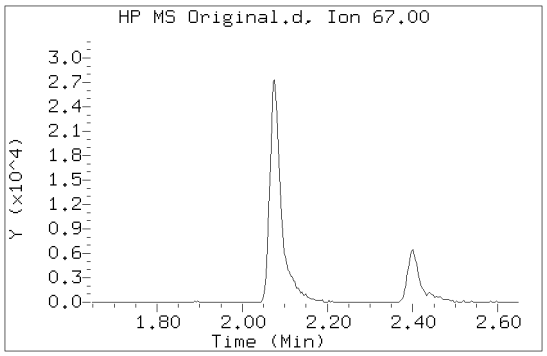
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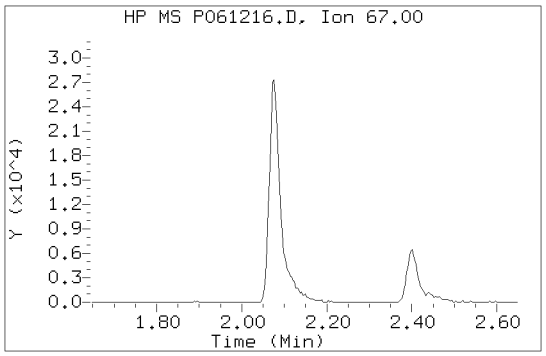
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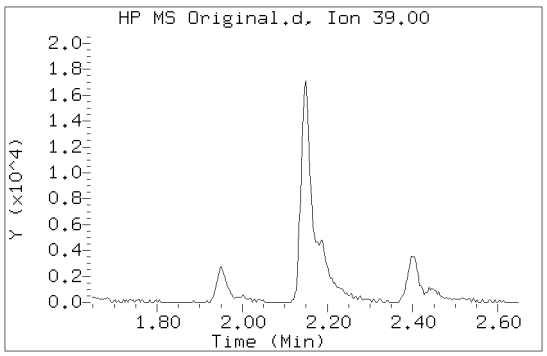
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22-Jun-2024
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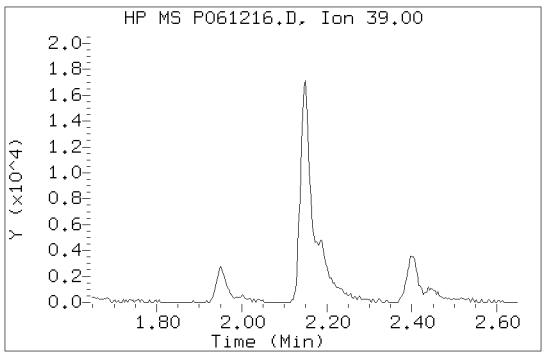
BEFORE

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22-Jun-2024
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RUCHA
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AFTER

MASS
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HEIGHT
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22-Jun-2024
12:21
RUCHA
PATEL



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061217.D Page 1
Report Date: 22-Jun-2024 12:22

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061217.D
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Smp Info : VLSDW-240612
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Comment   :
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Cal Date : 12-JUN-2024 14:46   Cal File: P061211.D
Als bottle: 18   QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1	Pentafluorobenzene	168	5.129	5.129	(1.000)	134046	50.0000	
2	Dichlorodifluoromethane	85	1.297	1.294	(0.253)	25885	18.6310	18.63
159	Dichlorofluoromethane	67	2.075	2.072	(0.405)	50784	18.3423	18.34
3	Chloromethane	50	1.448	1.451	(0.282)	42465	19.8329	19.83
4	Propionitrile	54	4.673	4.676	(0.911)	36982	205.136	205.13
5	Vinyl Chloride	62	1.535	1.535	(0.299)	35653	19.2523	19.25
6	Bromomethane	94	1.808	1.795	(0.353)	23471	18.5916	18.59
7	Chloroethane	64	1.898	1.888	(0.370)	21970	19.4421	19.44
8	Trichlorofluoromethane	101	2.110	2.110	(0.411)	45850	18.9343	18.93
9	Acrolein	56	2.512	2.515	(0.490)	1975	38.7427	38.74
10	Acetone	43	2.670	2.670	(0.521)	20385	41.3878	41.38
11	1,1-Dichloroethene	96	2.593	2.589	(0.505)	24299	18.8063	18.80
12	Isobutyl Alcohol	43	5.573	5.573	(1.086)	88178	407.050	407.04
13	Acetonitrile	39	2.962	2.959	(0.578)	38007	199.678	199.67
14	Allyl Chloride	41	2.959	2.959	(0.577)	81509	19.9976	19.99
15	Iodomethane	142	2.740	2.740	(0.534)	34807	38.8657	38.86
16	Acrylonitrile	53	3.384	3.380	(0.660)	18920	41.7160	41.71
17	Methylene Chloride	84	3.094	3.094	(0.603)	31839	19.8538	19.85
18	Methyl tert-butyl ether	73	3.384	3.380	(0.660)	65765	19.1556	19.15
19	Carbon Disulfide	76	2.795	2.795	(0.545)	161731	38.5101	38.51

20 trans-1,2-Dichloroethene	96	3.380	3.377 (0.659)	26314	18.3497	18.34
21 Vinyl Acetate	43	4.660	4.660 (0.908)	31513	41.6364	41.63

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
22	1,1-Dichloroethane	63	3.869	3.863	(0.754)	57368	19.7498	19.74
23	Chloroprene	53	3.966	3.962	(0.773)	46918	18.6557	18.65
24	2-Butanone	43	4.593	4.589	(0.895)	25116	39.5143	39.51
25	Methacrylonitrile	41	2.149	2.146	(0.419)	40410	19.1865	19.18(M)
26	2,2-Dichloropropane	77	4.531	4.535	(0.883)	45201	18.2864	18.28
27	cis-1,2-Dichloroethene	96	4.551	4.544	(0.887)	31091	19.5493	19.54
28	Chloroform	83	4.901	4.904	(0.955)	54875	19.1133	19.11
29	Bromochloromethane	128	4.805	4.808	(0.937)	15211	19.6330	19.63
$ 30	Dibromofluoromethane	113	5.075	5.072	(0.989)	70651	49.2365	49.23
31	1,1,1-Trichloroethane	97	5.072	5.072	(0.989)	46742	18.8816	18.88
32	1,1-Dichloropropene	75	5.245	5.245	(0.896)	41091	19.0499	19.04
33	1,2-Dichloroethane	62	5.493	5.493	(0.938)	47212	19.4961	19.49
34	Carbon Tetrachloride	117	5.232	5.236	(0.894)	40067	18.4535	18.45
$ 35	1,2-Dichloroethane-d4	65	5.416	5.416	(1.056)	96488	51.2198	51.21
* 36	1,4-Difluorobenzene	114	5.853	5.853	(1.000)	219214	50.0000	
37	Benzene	78	5.457	5.457	(0.932)	114374	19.5283	19.52
38	Trichloroethene	130	6.088	6.088	(1.040)	29426	19.2971	19.29
39	Bromodichloromethane	83	6.570	6.570	(1.122)	42294	19.1332	19.13
40	Methyl Methacrylate	41	6.435	6.435	(1.254)	31184	21.8208	21.82
41	2-Chloroethylvinyl ether	63	6.856	6.856	(1.171)	24949	43.1554	43.15
42	1,2-Dichloropropane	63	6.309	6.309	(1.078)	32972	19.5003	19.50
43	2-Nitropropane	43	6.801	6.801	(1.326)	8373	18.2863	18.28
44	Dibromomethane	93	6.416	6.419	(1.096)	19111	19.9599	19.95
45	4-Methyl-2-Pentanone	43	7.126	7.129	(0.842)	62172	42.1731	42.17
46	cis-1,3-Dichloropropene	75	6.978	6.978	(1.192)	45881	19.0934	19.09
* 47	Chlorobenzene-d5	117	8.467	8.467	(1.000)	196433	50.0000	
$ 48	Toluene-d8	98	7.207	7.207	(0.851)	257433	52.5676	52.56
49	Ethyl Methacrylate	69	8.046	8.043	(1.375)	26766	19.3016	19.30
50	Toluene	91	7.264	7.264	(0.858)	119223	20.2110	20.21
51	trans-1,3-Dichloropropene	75	6.978	6.978	(1.192)	45881	19.0934	19.09
52	2-Hexanone	43	7.859	7.862	(0.928)	43110	42.1732	42.17
53	1,1,2-Trichloroethane	83	7.637	7.641	(0.902)	23769	20.7720	20.77
54	1,3-Dichloropropane	76	7.782	7.782	(0.919)	49724	20.9225	20.92
55	Dibromochloromethane	129	7.975	7.978	(0.942)	31303	20.0085	20.00
56	Tetrachloroethene	164	7.737	7.737	(0.914)	22683	19.9608	19.96
57	1,2-Dibromoethane	107	8.075	8.075	(0.954)	22931	20.9593	20.95
58	1-Chlorohexane	55	8.470	8.470	(1.447)	30174	19.6653	19.66
59	Chlorobenzene	112	8.493	8.493	(1.003)	79142	20.5487	20.54
60	1,1,1,2-Tetrachloroethane	131	8.563	8.567	(1.011)	28529	20.2132	20.21
61	Ethylbenzene	106	8.583	8.586	(1.014)	40086	20.2503	20.25
62	m,p-Xylenes	106	8.682	8.686	(1.025)	101941	40.7350	40.73
63	o-Xylene	106	9.026	9.026	(1.066)	49782	20.6499	20.64
64	Styrene	104	9.039	9.039	(1.068)	82887	20.5474	20.54
66	Bromoform	173	9.206	9.206	(1.087)	20132	20.5247	20.52
67	Isopropylbenzene	105	9.338	9.341	(1.103)	124295	20.3936	20.39
68	1,1,2,2-Tetrachloroethane	83	9.608	9.612	(0.919)	36744	22.0513	22.05
$ 69	4-Bromofluorobenzene	95	9.477	9.477	(1.119)	99388	51.5503	51.55
* 70	1,4-Dichlorobenzene-d4	152	10.457	10.460	(1.000)	94263	50.0000	
71	1,2,3-Trichloropropane	75	9.650	9.650	(0.923)	40684	22.5209	22.52
72	trans-1,4-Dichloro-2-butene	53	9.657	9.660	(1.140)	8736	21.8721	21.87
73	n-Propylbenzene	91	9.689	9.692	(0.927)	151686	21.6954	21.69
74	Bromobenzene	156	9.602	9.605	(0.918)	34280	21.8810	21.88

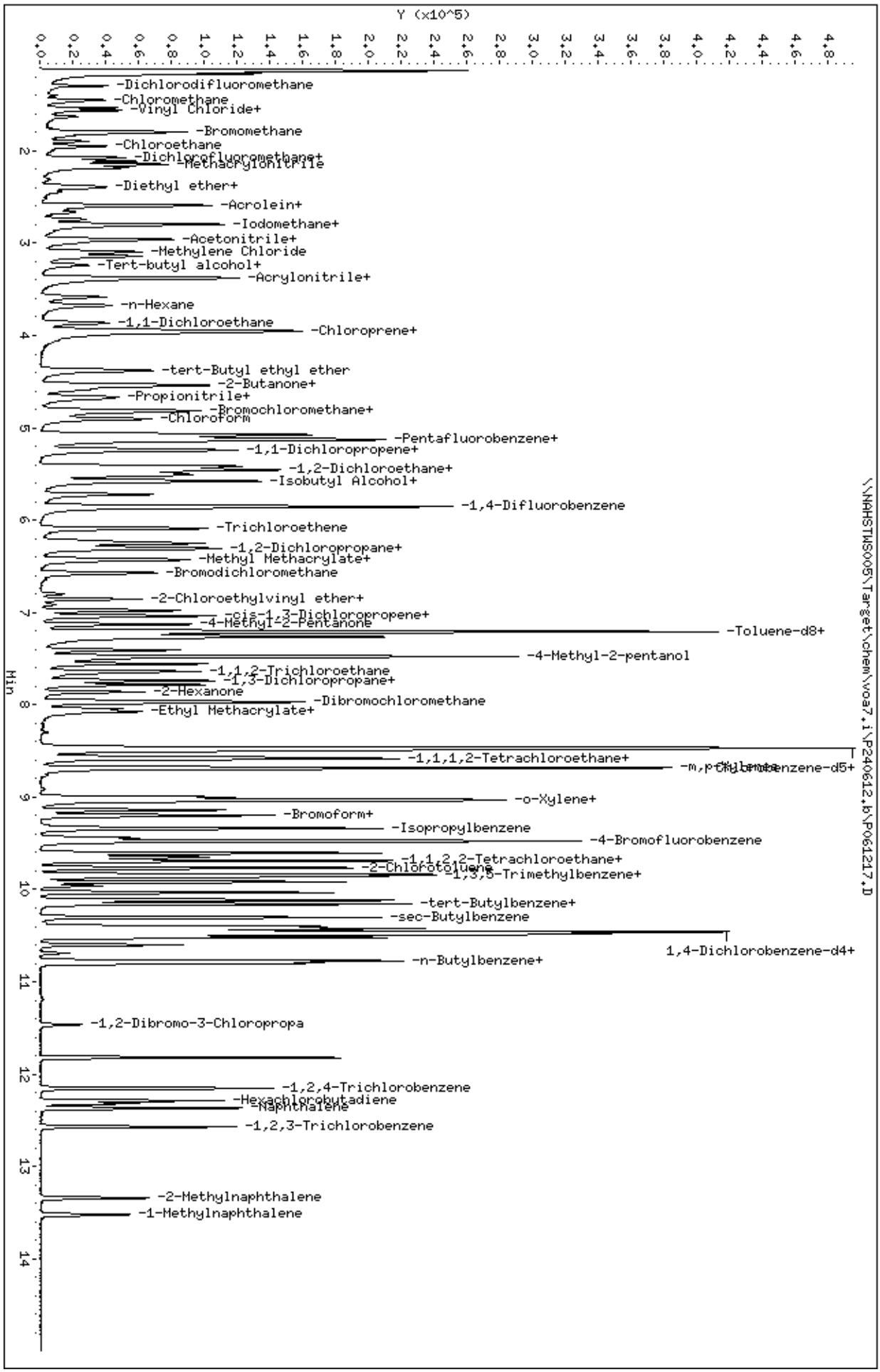
75	1,3,5-Trimethylbenzene	105	9.837	9.840 (0.941)	105295	21.4853	21.48
76	2-Chlorotoluene	91	9.766	9.766 (0.934)	95907	22.1059	22.10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
77	4-Chlorotoluene	91	9.859	9.859	(0.943)	110673	21.7686	21.76
78	tert-Butylbenzene	119	10.116	10.116	(0.967)	91290	22.0386	22.03
79	1,2,4-Trimethylbenzene	105	10.158	10.158	(0.971)	109192	22.0481	22.04
81	sec-Butylbenzene	105	10.303	10.303	(0.985)	124237	21.6620	21.66
82	p-Isopropyltoluene	119	10.425	10.428	(0.997)	106663	19.8602	19.86
83	1,3-Dichlorobenzene	146	10.403	10.403	(0.995)	61792	22.0812	22.08
84	1,4-Dichlorobenzene	146	10.480	10.480	(1.002)	62737	21.6026	21.60
87	n-Butylbenzene	91	10.772	10.776	(1.030)	102364	21.0330	21.03
88	1,2-Dichlorobenzene	146	10.798	10.798	(1.033)	59433	21.8277	21.82
89	1,2-Dibromo-3-Chloropropane	75	11.464	11.467	(1.096)	5844	20.9264	20.92
90	1,2,4-Trichlorobenzene	180	12.155	12.155	(1.162)	38014	22.8112	22.81
91	Hexachlorobutadiene	225	12.287	12.290	(1.175)	18245	23.8045	23.80
92	Naphthalene	128	12.367	12.367	(1.183)	84674	22.9613	22.96
93	1,2,3-Trichlorobenzene	182	12.570	12.570	(1.202)	29654	22.4695	22.46
146	Methyl acetate	43	2.994	2.991	(0.584)	23465	21.6877	21.68
138	Freon TF	101	2.593	2.593	(0.505)	25373	18.8363	18.83
139	Diethyl ether	59	2.380	2.380	(0.464)	15204	16.9846	16.98
140	1,3-Butadiene	54	1.564	1.564	(0.305)	14582	18.1798	18.17
141	Cyclohexane	56	5.113	5.110	(0.997)	42701	19.1680	19.16
147	Methylcyclohexane	83	6.252	6.252	(1.068)	37866	18.3546	18.35
132	n-Butanol	56	6.248	6.252	(1.218)	18228	406.355	406.35
131	Methyl Acrylate	55	4.686	4.689	(0.914)	30304	21.1343	21.13
133	Ethyl Acrylate	55	6.223	6.248	(1.213)	72625	19.1317	19.13
136	n-Hexane	57	3.673	3.673	(0.716)	28963	19.4287	19.42
142	Tetrahydrofuran	42	4.859	4.859	(0.947)	9130	38.8108	38.81
148	Tert-butyl alcohol	59	3.236	3.242	(0.631)	40674	441.076	441.07
149	Isopropyl alcohol	45	2.818	2.821	(0.549)	34110	399.198	399.19
151	4-Methyl-2-pentanol	45	7.473	7.480	(0.883)	168033	427.713	427.71
166	1,2,3-Trimethylbenzene	105	10.518	10.522	(1.006)	98202	22.2024	22.20
167	Ethanol	45	2.313	2.329	(0.451)	6113	404.926	404.92
172	tert-Butyl formate	59	3.236	3.242	(0.631)	40674	44.0412	44.04
173	3,3-Dimethyl-1-butanol	57	8.046	8.043	(0.950)	37182	398.748	398.74
174	tert-Amyl methyl ether	73	5.583	5.580	(1.088)	78156	21.4132	21.41
175	tert-Butyl ethyl ether	59	4.380	4.377	(0.854)	80493	20.5544	20.55
157	2-Methylnaphthalene	142	13.341	13.341	(1.276)	31309	24.2578	24.25
156	Diisopropyl ether	45	3.949	3.949	(0.770)	95691	20.0415	20.04
171	1-Methylnaphthalene	142	13.521	13.525	(1.293)	26334	24.8130	24.81
130	Ethyl Acetate	43	3.949	3.946	(0.770)	171028	19.2821	19.28
176	tert-Amyl alcohol	59	5.512	5.518	(1.075)	38696	409.330	409.32(A)
160	Epichlorohydrin	57	6.917	6.914	(1.182)	6913	85.4203	85.42
161	Butyl acrylate	55	8.997	8.997	(1.063)	66739	20.8973	20.89
183	Isopropyl Acetate	43	5.573	5.573	(0.952)	88178	20.4027	20.40(A)
184	n-Amyl acetate	43	9.194	9.197	(1.086)	59380	19.8165	19.81(A)
185	Acetaldehyde	44	1.631	1.631	(0.318)	36618	82.0409	82.04(A)
M 94	1,2-Dichloroethylene (total)	96				57405	37.8990	37.89
M 95	Xylenes (total)	106				151723	61.3849	61.38

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

M - Compound response manually integrated.



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Client ID:
Sample Info: WLSDW-240612
Purge Volume: 5.0
Column phase: DB624

Instrument: voa7.i
Operator: AP
Column diameter: 0.18

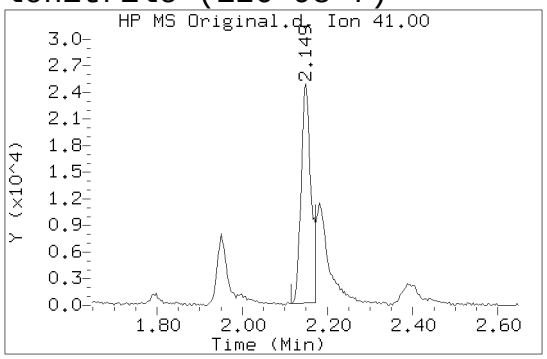
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Inj Date : 12-JUN-2024 17:03
InstruID : voa7.i
LabSampID : VLSDW-240612

Methacrylonitrile (126-98-7)

Reason Code:

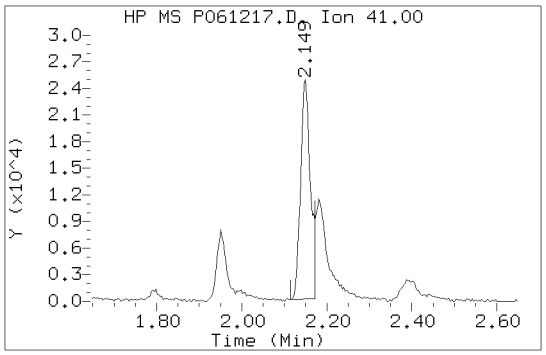
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22-Jun-2024
12:21
RUCHA
PATEL



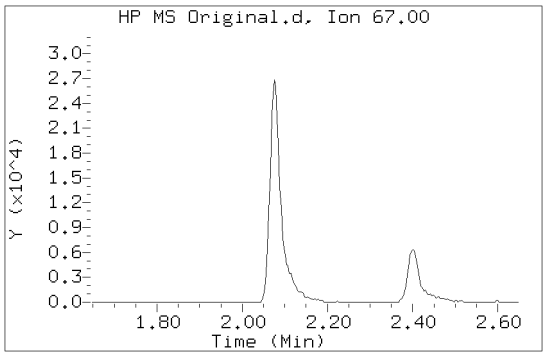
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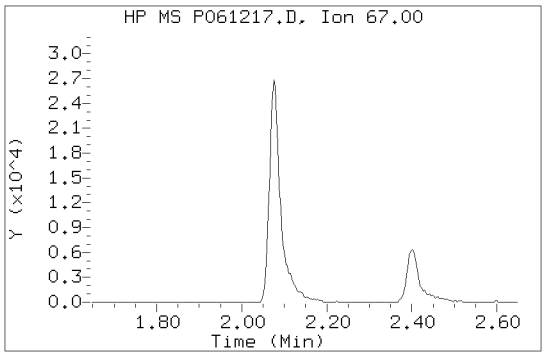
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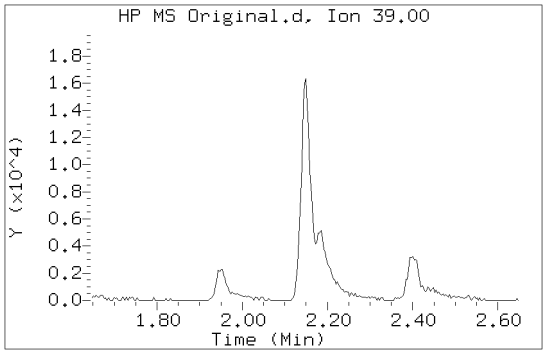
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22-Jun-2024
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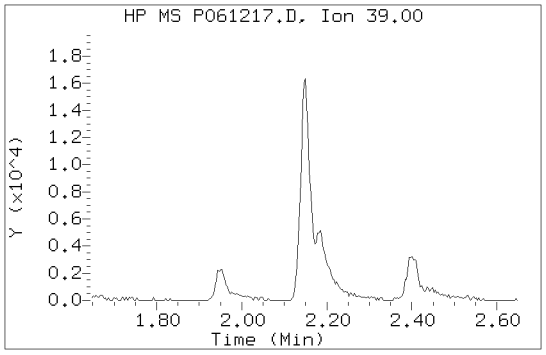
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22-Jun-2024
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AFTER

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22-Jun-2024
12:21
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Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061218.D Page 1
Report Date: 22-Jun-2024 12:22

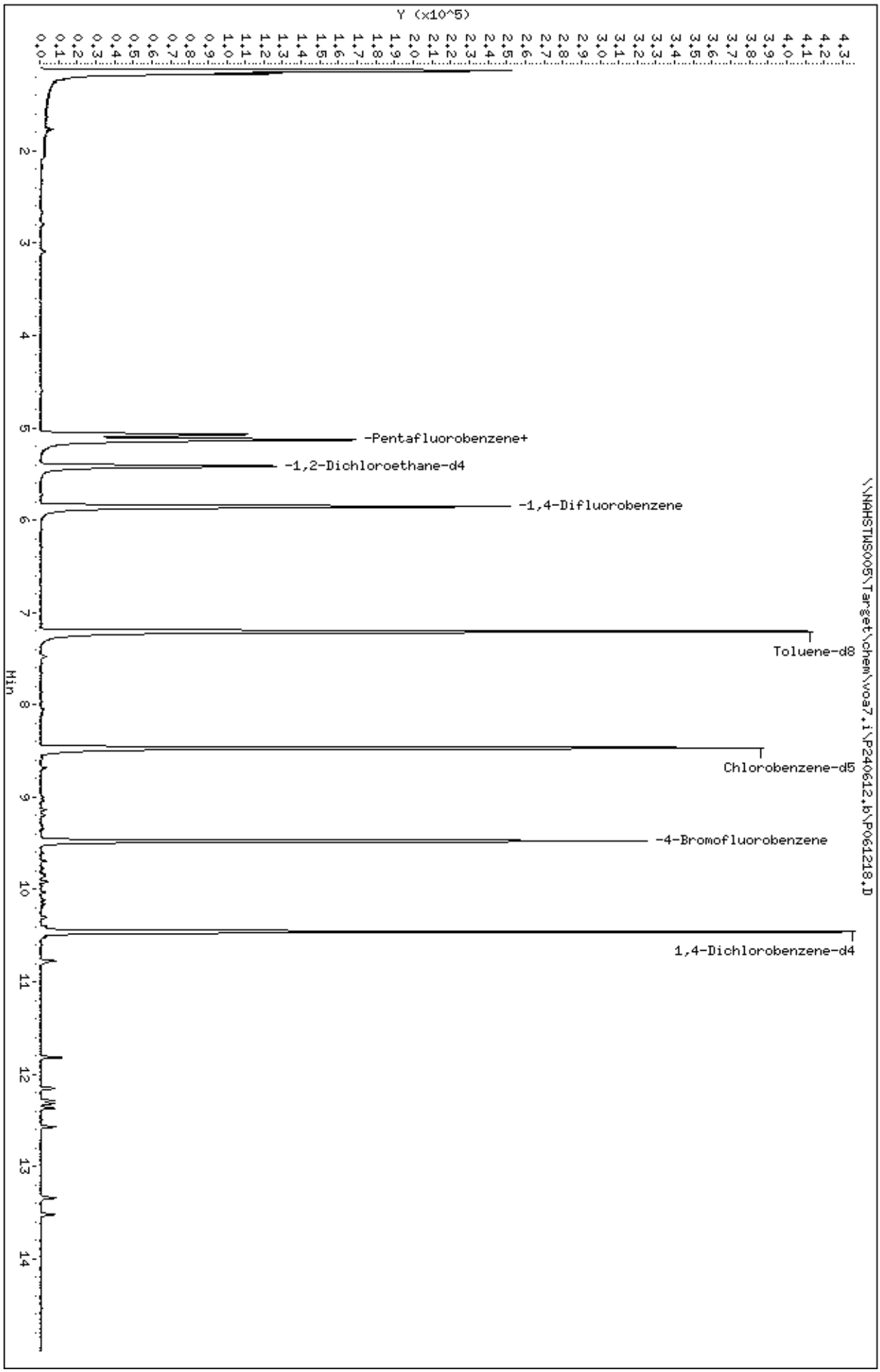
ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061218.D
Lab Smp Id: VBLKW-240612 Client Smp ID: VBLKW-240612
Inj Date : 12-JUN-2024 17:26
Operator : AP Inst ID: voa7.i
Smp Info : VBLKW-240612;VBLKW-240612;3;;BLANK
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240612.b\8260W.m
Meth Date : 22-Jun-2024 12:21 voa7.i Quant Type: ISTD
Cal Date : 12-JUN-2024 14:46 Cal File: P061211.D
Als bottle: 19 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	5.129	5.129	(1.000)	127424	50.0000	
$ 30 Dibromofluoromethane	113	5.072	5.072	(0.989)	76391	56.0644	56.06
$ 35 1,2-Dichloroethane-d4	65	5.419	5.416	(1.056)	99800	55.8010	55.80
* 36 1,4-Difluorobenzene	114	5.853	5.853	(1.000)	212721	50.0000	
* 47 Chlorobenzene-d5	117	8.467	8.467	(1.000)	208419	50.0000	
$ 48 Toluene-d8	98	7.207	7.207	(0.851)	279339	53.7899	53.78
$ 69 4-Bromofluorobenzene	95	9.477	9.477	(1.119)	99606	48.5758	48.57
* 70 1,4-Dichlorobenzene-d4	152	10.460	10.460	(1.000)	106198	50.0000	



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061218.D
Date : 12-JUN-2024 17:26
Client ID: VBLKW-240612
Sample Info: VBLKW-240612;VBLKW-240612;3;;BLANK
Purge Volume: 5.0
Column phase: DB624

Instrument: voa7.i
Operator: AP
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061218.D
Inj Date : 12-JUN-2024 17:26
InstruID : voa7.i
LabSampID : VBLKW-240612

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061223.D Page 1
Report Date: 22-Jun-2024 12:22

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061223.D
Lab Smp Id: HS24060214-10MS Client Smp ID: HS24060214-10MS
Inj Date : 12-JUN-2024 19:20
Operator : AP Inst ID: voa7.i
Smp Info : HS24060214-10MS;HS24060214-10MSD;3;;MS
Misc Info : HS220328V7;WATER;0;100;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240612.b\8260W.m
Meth Date : 22-Jun-2024 12:21 voa7.i Quant Type: ISTD
Cal Date : 12-JUN-2024 14:46 Cal File: P061211.D
Als bottle: 23 QC Sample: MS
Dil Factor: 100.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	100.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	5.129	5.129	(1.000)	126879	50.0000	
2 Dichlorodifluoromethane	85	1.294	1.294	(0.252)	24280	18.4611	1846.10
159 Dichlorofluoromethane	67	2.072	2.072	(0.404)	30080	11.4781	1147.80
3 Chloromethane	50	1.448	1.451	(0.282)	39508	19.4810	1948.10
4 Propionitrile	54	4.666	4.676	(0.910)	17607	100.567	10056.67
5 Vinyl Chloride	62	1.535	1.535	(0.299)	33277	18.9822	1898.22
6 Bromomethane	94	1.805	1.795	(0.352)	21411	17.8721	1787.21
7 Chloroethane	64	1.892	1.888	(0.369)	20484	19.1448	1914.48
8 Trichlorofluoromethane	101	2.107	2.110	(0.411)	41444	18.0928	1809.27
9 Acrolein	56	2.515	2.515	(0.490)	1484	31.5598	3155.97
10 Acetone	43	2.663	2.670	(0.519)	13644	27.3908	2739.07
11 1,1-Dichloroethene	96	2.589	2.589	(0.505)	26309	21.5121	2151.21
12 Isobutyl Alcohol	43	5.573	5.573	(1.086)	57094	273.407	27340.72
13 Acetonitrile	39	2.956	2.959	(0.576)	22221	122.409	12240.85
14 Allyl Chloride	41	2.959	2.959	(0.577)	47467	12.1505	1215.05
15 Iodomethane	142	2.737	2.740	(0.534)	28774	34.6511	3465.11
16 Acrylonitrile	53	3.374	3.380	(0.658)	10714	24.7802	2478.02
17 Methylene Chloride	84	3.094	3.094	(0.603)	28983	19.0450	1904.50
18 Methyl tert-butyl ether	73	3.377	3.380	(0.658)	32466	10.4341	1043.40
19 Carbon Disulfide	76	2.792	2.795	(0.544)	145354	36.5855	3658.54

20 trans-1,2-Dichloroethene	96	3.374	3.377 (0.658)	23011	16.9528	1695.28
21 Vinyl Acetate	43	4.657	4.660 (0.908)	22362	30.7260	3072.60

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
22	1,1-Dichloroethane	63	3.866	3.863	(0.754)	47595	17.2980	1729.79
23	Chloroprene	53	3.959	3.962	(0.772)	41589	17.4709	1747.09
24	2-Butanone	43	4.593	4.589	(0.895)	18886	30.8224	3082.23
25	Methacrylonitrile	41	2.146	2.146	(0.418)	24791	12.8343	1283.43(M)
26	2,2-Dichloropropane	77	4.535	4.535	(0.884)	38566	16.5331	1653.30
27	cis-1,2-Dichloroethene	96	4.544	4.544	(0.886)	36885	24.4981	2449.81
28	Chloroform	83	4.908	4.904	(0.957)	47021	17.2757	1727.57
29	Bromochloromethane	128	4.805	4.808	(0.937)	12406	16.8343	1683.43
$ 30	Dibromofluoromethane	113	5.072	5.072	(0.989)	78639	57.9772	57.97(R)
31	1,1,1-Trichloroethane	97	5.068	5.072	(0.988)	40668	17.3949	1739.49
32	1,1-Dichloropropene	75	5.242	5.245	(0.896)	36508	17.5425	1754.24
33	1,2-Dichloroethane	62	5.490	5.493	(0.938)	38144	16.2393	1623.92
34	Carbon Tetrachloride	117	5.232	5.236	(0.894)	34748	16.6335	1663.35
$ 35	1,2-Dichloroethane-d4	65	5.416	5.416	(1.056)	104052	58.4656	58.46
* 36	1,4-Difluorobenzene	114	5.853	5.853	(1.000)	211768	50.0000	
37	Benzene	78	5.454	5.457	(0.932)	100118	17.6653	1766.52
38	Trichloroethene	130	6.088	6.088	(1.040)	132865	90.2100	9020.99
39	Bromodichloromethane	83	6.570	6.570	(1.122)	33889	15.8789	1587.88
40	Methyl Methacrylate	41	6.432	6.435	(1.254)	14631	10.1565	1015.64
41	2-Chloroethylvinyl ether	63	6.853	6.856	(1.171)	6364	10.9884	1098.84
42	1,2-Dichloropropane	63	6.306	6.309	(1.077)	27590	16.8713	1687.12
43	2-Nitropropane	43	6.795	6.801	(1.325)	4580	10.8156	1081.55
44	Dibromomethane	93	6.416	6.419	(1.096)	14805	15.9761	1597.61
45	4-Methyl-2-Pentanone	43	7.129	7.129	(0.842)	43430	27.8111	2781.11
46	cis-1,3-Dichloropropene	75	6.978	6.978	(1.192)	38186	16.5557	1655.56
* 47	Chlorobenzene-d5	117	8.467	8.467	(1.000)	202471	50.0000	
$ 48	Toluene-d8	98	7.207	7.207	(0.851)	293320	58.2466	58.24(R)
49	Ethyl Methacrylate	69	8.043	8.043	(1.374)	5627	4.44335	444.33
50	Toluene	91	7.264	7.264	(0.858)	104158	17.0017	1700.16
51	trans-1,3-Dichloropropene	75	6.978	6.978	(1.192)	38186	16.5557	1655.56
52	2-Hexanone	43	7.859	7.862	(0.928)	29949	27.7567	2775.66
53	1,1,2-Trichloroethane	83	7.637	7.641	(0.902)	18332	15.2423	1524.23
54	1,3-Dichloropropane	76	7.782	7.782	(0.919)	38574	15.4801	1548.00
55	Dibromochloromethane	129	7.975	7.978	(0.942)	24456	15.1164	1511.64
56	Tetrachloroethene	164	7.737	7.737	(0.914)	19239	16.3568	1635.67
57	1,2-Dibromoethane	107	8.068	8.075	(0.953)	18570	16.2493	1624.92
58	1-Chlorohexane	55	8.467	8.470	(1.447)	25853	17.2313	1723.12
59	Chlorobenzene	112	8.493	8.493	(1.003)	65806	16.4265	1642.64
60	1,1,1,2-Tetrachloroethane	131	8.567	8.567	(1.012)	23231	15.9645	1596.44
61	Ethylbenzene	106	8.583	8.586	(1.014)	34860	17.0133	1701.32
62	m,p-Xylenes	106	8.682	8.686	(1.025)	87956	33.9177	3391.77
63	o-Xylene	106	9.023	9.026	(1.066)	41875	16.7304	1673.04
64	Styrene	104	9.039	9.039	(1.068)	69752	16.7160	1671.59
66	Bromoform	173	9.206	9.206	(1.087)	14861	14.7482	1474.82
67	Isopropylbenzene	105	9.338	9.341	(1.103)	107384	17.0131	1701.31
68	1,1,2,2-Tetrachloroethane	83	9.612	9.612	(0.919)	27236	14.4047	1440.47
$ 69	4-Bromofluorobenzene	95	9.473	9.477	(1.119)	112600	56.8698	56.86
* 70	1,4-Dichlorobenzene-d4	152	10.457	10.460	(1.000)	102863	50.0000	
71	1,2,3-Trichloropropane	75	9.647	9.650	(0.923)	30168	14.7285	1472.85
72	trans-1,4-Dichloro-2-butene	53	9.653	9.660	(1.140)	6158	14.9966	1499.66
73	n-Propylbenzene	91	9.689	9.692	(0.927)	127046	16.4036	1640.36
74	Bromobenzene	156	9.602	9.605	(0.918)	27918	15.9636	1596.35

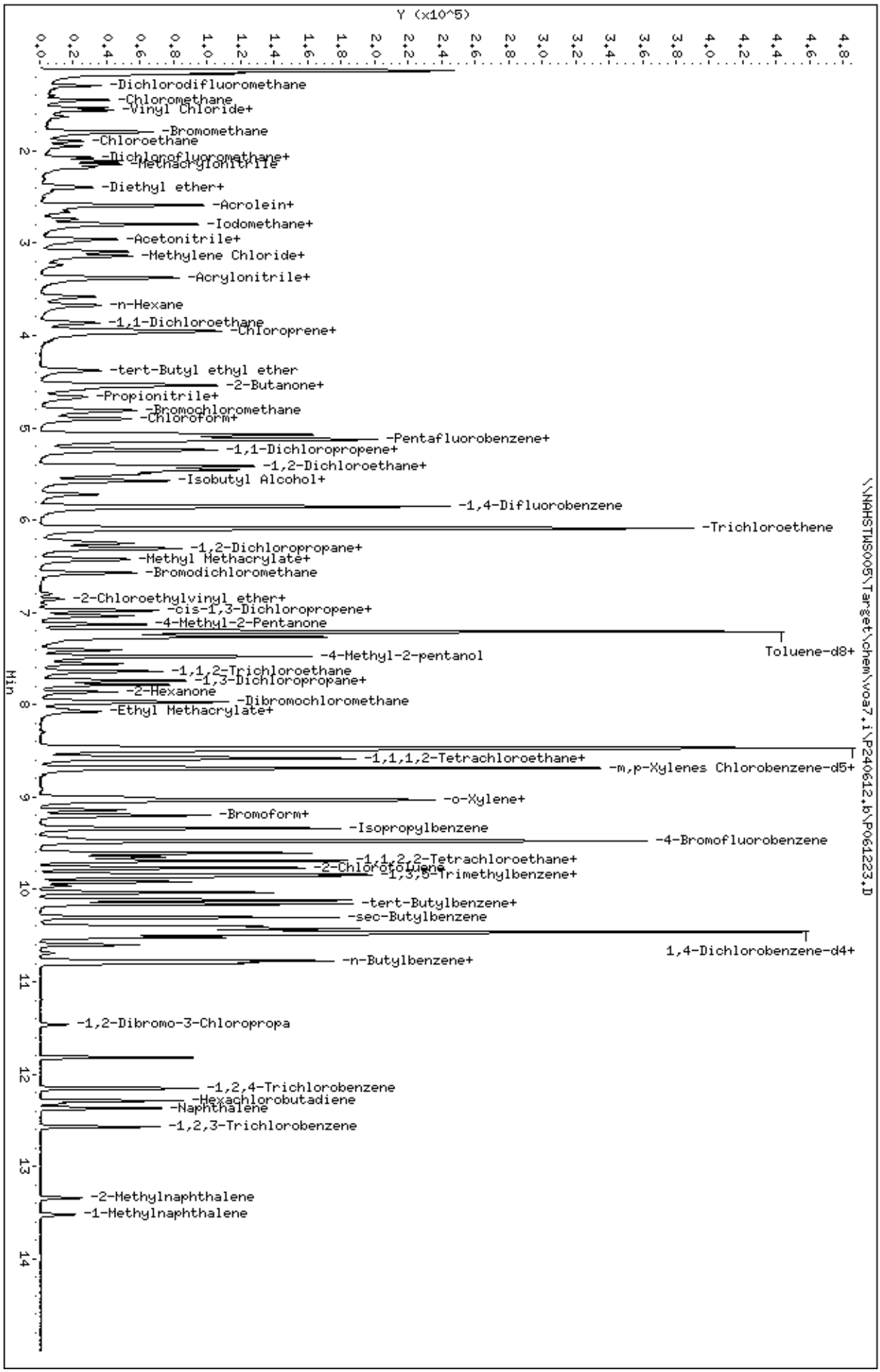
75	1,3,5-Trimethylbenzene	105	9.840	9.840 (0.941)	87182	16.1214	1612.13
76	2-Chlorotoluene	91	9.766	9.766 (0.934)	78222	16.1776	1617.75

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
77	4-Chlorotoluene	91	9.859	9.859	(0.943)	90818	16.0380	1603.80
78	tert-Butylbenzene	119	10.113	10.116	(0.967)	76862	16.7338	1673.37
79	1,2,4-Trimethylbenzene	105	10.158	10.158	(0.971)	87740	15.9595	1595.94
81	sec-Butylbenzene	105	10.303	10.303	(0.985)	104687	16.4990	1649.90
82	p-Isopropyltoluene	119	10.425	10.428	(0.997)	88700	15.1347	1513.47
83	1,3-Dichlorobenzene	146	10.403	10.403	(0.995)	48240	15.5130	1551.30
84	1,4-Dichlorobenzene	146	10.480	10.480	(1.002)	49940	15.4606	1546.05
87	n-Butylbenzene	91	10.772	10.776	(1.030)	80842	15.2221	1522.20
88	1,2-Dichlorobenzene	146	10.798	10.798	(1.033)	44501	14.6532	1465.32
89	1,2-Dibromo-3-Chloropropane	75	11.464	11.467	(1.096)	3878	12.7255	1272.54
90	1,2,4-Trichlorobenzene	180	12.155	12.155	(1.162)	25188	13.8917	1389.17
91	Hexachlorobutadiene	225	12.290	12.290	(1.175)	13743	16.4316	1643.15
92	Naphthalene	128	12.367	12.367	(1.183)	50244	12.4764	1247.63
93	1,2,3-Trichlorobenzene	182	12.570	12.570	(1.202)	18203	12.7748	1277.47
146	Methyl acetate	43	2.991	2.991	(0.583)	15969	15.3672	1536.72
138	Freon TF	101	2.589	2.593	(0.505)	22168	17.4332	1743.32
139	Diethyl ether	59	2.380	2.380	(0.464)	7542	9.07335	907.33
140	1,3-Butadiene	54	1.561	1.564	(0.304)	12997	17.1669	1716.68
141	Cyclohexane	56	5.110	5.110	(0.996)	36813	17.4317	1743.17
147	Methylcyclohexane	83	6.248	6.252	(1.068)	21634	11.2655	1126.54
132	n-Butanol	56	6.252	6.252	(1.219)	7464	175.957	17595.72
131	Methyl Acrylate	55	4.692	4.689	(0.915)	14601	10.3625	1036.24
133	Ethyl Acrylate	55	6.248	6.248	(1.218)	21995	6.12146	612.14
136	n-Hexane	57	3.670	3.673	(0.715)	23841	17.0347	1703.46
142	Tetrahydrofuran	42	4.863	4.859	(0.948)	4795	21.8372	2183.71
148	Tert-butyl alcohol	59	3.236	3.242	(0.631)	17412	177.761	17776.11
149	Isopropyl alcohol	45	2.818	2.821	(0.549)	14666	180.194	18019.40
151	4-Methyl-2-pentanol	45	7.477	7.480	(0.883)	73065	182.382	18238.18
166	1,2,3-Trimethylbenzene	105	10.518	10.522	(1.006)	52018	10.0361	1003.61
167	Ethanol	45	2.313	2.329	(0.451)	2547	138.677	13867.71
172	tert-Butyl formate	59	3.236	3.242	(0.631)	17412	17.6813	1768.13
173	3,3-Dimethyl-1-butanol	57	8.046	8.043	(0.950)	13454	135.378	13537.81
174	tert-Amyl methyl ether	73	5.580	5.580	(1.088)	37978	10.5235	1052.34
175	tert-Butyl ethyl ether	59	4.377	4.377	(0.853)	40728	10.7872	1078.71
157	2-Methylnaphthalene	142	13.341	13.341	(1.276)	11433	10.1307	1013.07
156	Diisopropyl ether	45	3.949	3.949	(0.770)	48655	10.8537	1085.37
171	1-Methylnaphthalene	142	13.521	13.525	(1.293)	10123	10.4520	1045.20
130	Ethyl Acetate	43	3.946	3.946	(0.769)	121811	14.6324	1463.24
176	tert-Amyl alcohol	59	5.512	5.518	(1.075)	16005	154.861	15486.10(A)
160	Epichlorohydrin	57	6.911	6.914	(1.181)	3097	39.5146	3951.46
161	Butyl acrylate	55	8.998	8.997	(1.063)	32105	9.94068	994.06
183	Isopropyl Acetate	43	5.573	5.573	(0.952)	57094	13.3482	1334.81(A)
184	n-Amyl acetate	43	9.194	9.197	(1.086)	42050	13.9096	1390.96(A)
185	Acetaldehyde	44	1.628	1.631	(0.317)	16951	21.7834	2178.33(A)
M 94	1,2-Dichloroethylene (total)	96				59896	41.4510	4145.09
M 95	Xylenes (total)	106				129831	50.6481	5064.81

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.



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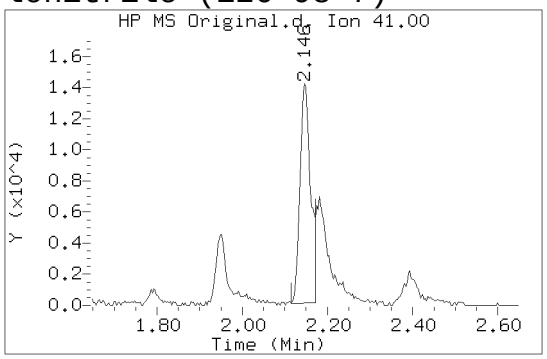
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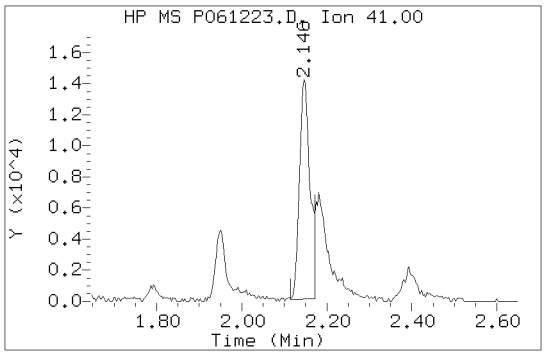
Methacrylonitrile (126-98-7)

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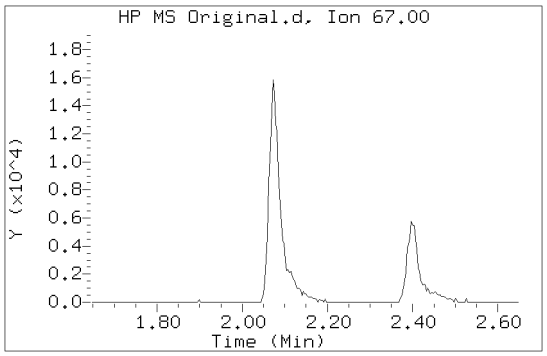
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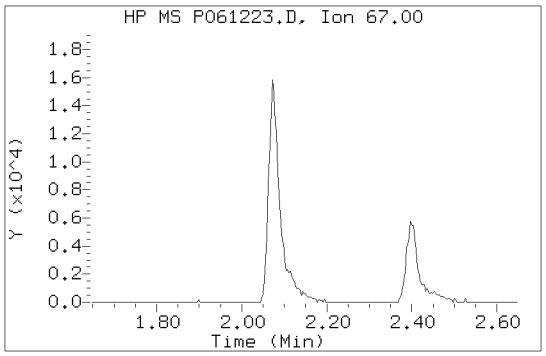
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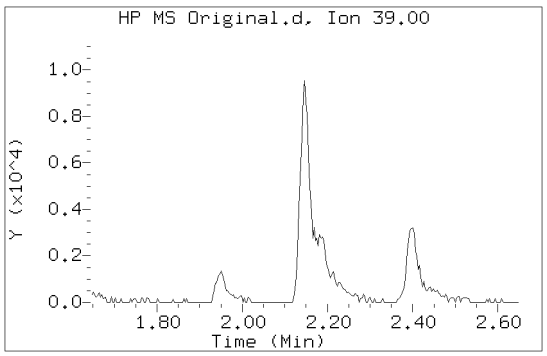
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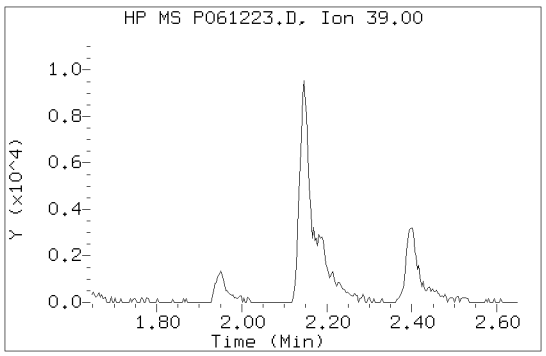
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Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061224.D Page 1
Report Date: 22-Jun-2024 12:22

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061224.D
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Inj Date : 12-JUN-2024 19:43
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Smp Info : HS24060214-10MSD
Misc Info : HS220328V7;WATER;0;1;
Comment   :
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Meth Date : 22-Jun-2024 12:21 voa7.i   Quant Type: ISTD
Cal Date : 12-JUN-2024 14:46   Cal File: P061211.D
Als bottle: 24   QC Sample: MSD
Dil Factor: 100.00000
Integrator: HP RTE   Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	100.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1	Pentafluorobenzene	168	5.129	5.129	(1.000)	125990	50.0000	
2	Dichlorodifluoromethane	85	1.294	1.294	(0.252)	31960	24.5400	2453.99
159	Dichlorofluoromethane	67	2.072	2.072	(0.404)	38230	14.6909	1469.09
3	Chloromethane	50	1.448	1.451	(0.282)	47991	24.0022	2400.21
4	Propionitrile	54	4.670	4.676	(0.910)	21362	124.042	12404.22
5	Vinyl Chloride	62	1.535	1.535	(0.299)	41622	23.9490	2394.89
6	Bromomethane	94	1.805	1.795	(0.352)	26890	22.9700	2297.00
7	Chloroethane	64	1.895	1.888	(0.369)	25607	24.2089	2420.89
8	Trichlorofluoromethane	101	2.110	2.110	(0.411)	55643	24.3753	2437.52
9	Acrolein	56	2.512	2.515	(0.490)	1504	32.1281	3212.81
10	Acetone	43	2.663	2.670	(0.519)	17223	36.5565	3655.65
11	1,1-Dichloroethene	96	2.593	2.589	(0.505)	32465	26.7331	2673.30
12	Isobutyl Alcohol	43	5.573	5.573	(1.086)	74735	365.486	36548.61
13	Acetonitrile	39	2.959	2.959	(0.577)	28330	157.852	15785.21
14	Allyl Chloride	41	2.959	2.959	(0.577)	55948	14.4969	1449.68
15	Iodomethane	142	2.740	2.740	(0.534)	44622	50.8793	5087.92
16	Acrylonitrile	53	3.374	3.380	(0.658)	11506	26.8357	2683.57
17	Methylene Chloride	84	3.094	3.094	(0.603)	36136	24.2386	2423.85
18	Methyl tert-butyl ether	73	3.377	3.380	(0.658)	44047	13.9164	1391.64
19	Carbon Disulfide	76	2.795	2.795	(0.545)	183462	46.3962	4639.62

20 trans-1,2-Dichloroethene	96	3.374	3.377 (0.658)	29193	21.6591	2165.90
21 Vinyl Acetate	43	4.657	4.660 (0.908)	28339	39.7526	3975.25

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
22	1,1-Dichloroethane	63	3.863	3.863	(0.753)	63826	23.3973	2339.73
23	Chloroprene	53	3.959	3.962	(0.772)	54177	22.9195	2291.95
24	2-Butanone	43	4.589	4.589	(0.895)	23756	39.7820	3978.19
25	Methacrylonitrile	41	2.146	2.146	(0.418)	30098	15.4394	1543.94(M)
26	2,2-Dichloropropane	77	4.531	4.535	(0.883)	51269	21.9635	2196.35
27	cis-1,2-Dichloroethene	96	4.541	4.544	(0.885)	45266	30.2727	3027.26
28	Chloroform	83	4.904	4.904	(0.956)	61738	22.9352	2293.52
29	Bromochloromethane	128	4.805	4.808	(0.937)	16339	22.5228	2252.27
$ 30	Dibromofluoromethane	113	5.075	5.072	(0.989)	81823	60.7715	60.77(R)
31	1,1,1-Trichloroethane	97	5.068	5.072	(0.988)	52427	22.4391	2243.91
32	1,1-Dichloropropene	75	5.242	5.245	(0.896)	47517	22.7369	2273.69
33	1,2-Dichloroethane	62	5.493	5.493	(0.938)	50166	21.4728	2147.28
34	Carbon Tetrachloride	117	5.235	5.236	(0.895)	45598	21.6110	2161.10
$ 35	1,2-Dichloroethane-d4	65	5.416	5.416	(1.056)	105906	59.9470	59.94
* 36	1,4-Difluorobenzene	114	5.853	5.853	(1.000)	211883	50.0000	
37	Benzene	78	5.454	5.457	(0.932)	127947	22.6518	2265.18
38	Trichloroethene	130	6.088	6.088	(1.040)	136365	92.5362	9253.62
39	Bromodichloromethane	83	6.570	6.570	(1.122)	45198	21.1488	2114.88
40	Methyl Methacrylate	41	6.432	6.435	(1.254)	20028	14.4963	1449.62
41	2-Chloroethylvinyl ether	63	6.853	6.856	(1.171)	7658	13.3533	1335.33
42	1,2-Dichloropropane	63	6.306	6.309	(1.077)	36497	22.3534	2235.33
43	2-Nitropropane	43	6.798	6.801	(1.325)	5747	13.5123	1351.22
44	Dibromomethane	93	6.419	6.419	(1.097)	19115	20.6601	2066.01
45	4-Methyl-2-Pentanone	43	7.126	7.129	(0.842)	55159	36.1938	3619.37
46	cis-1,3-Dichloropropene	75	6.978	6.978	(1.192)	48600	20.8513	2085.13
* 47	Chlorobenzene-d5	117	8.467	8.467	(1.000)	201283	50.0000	
$ 48	Toluene-d8	98	7.206	7.207	(0.851)	299964	59.9548	59.95(R)
49	Ethyl Methacrylate	69	8.049	8.043	(1.375)	11894	9.08416	908.41
50	Toluene	91	7.264	7.264	(0.858)	137064	22.7787	2277.87
51	trans-1,3-Dichloropropene	75	6.978	6.978	(1.192)	48600	20.8513	2085.13
52	2-Hexanone	43	7.859	7.862	(0.928)	37752	35.7439	3574.39
53	1,1,2-Trichloroethane	83	7.637	7.641	(0.902)	24625	21.0147	2101.47
54	1,3-Dichloropropane	76	7.782	7.782	(0.919)	50655	20.7943	2079.43
55	Dibromochloromethane	129	7.975	7.978	(0.942)	32397	20.2108	2021.08
56	Tetrachloroethene	164	7.740	7.737	(0.914)	25574	22.0013	2200.13
57	1,2-Dibromoethane	107	8.071	8.075	(0.953)	23911	21.3463	2134.62
58	1-Chlorohexane	55	8.470	8.470	(1.447)	34121	23.3232	2332.32
59	Chlorobenzene	112	8.489	8.493	(1.003)	87092	22.1254	2212.54
60	1,1,1,2-Tetrachloroethane	131	8.563	8.567	(1.011)	30270	20.9306	2093.06
61	Ethylbenzene	106	8.583	8.586	(1.014)	46723	23.0975	2309.74
62	m,p-Xylenes	106	8.682	8.686	(1.025)	118241	46.2564	4625.63
63	o-Xylene	106	9.023	9.026	(1.066)	56526	22.9539	2295.39
64	Styrene	104	9.039	9.039	(1.068)	91686	22.2069	2220.68
66	Bromoform	173	9.203	9.206	(1.087)	19757	19.6643	1966.43
67	Isopropylbenzene	105	9.338	9.341	(1.103)	143918	23.1088	2310.87
68	1,1,2,2-Tetrachloroethane	83	9.608	9.612	(0.919)	35309	18.6853	1868.53
$ 69	4-Bromofluorobenzene	95	9.473	9.477	(1.119)	114027	57.9696	57.96
* 70	1,4-Dichlorobenzene-d4	152	10.460	10.460	(1.000)	105473	50.0000	
71	1,2,3-Trichloropropane	75	9.647	9.650	(0.922)	38591	18.8187	1881.86
72	trans-1,4-Dichloro-2-butene	53	9.657	9.660	(1.141)	8373	20.4661	2046.60
73	n-Propylbenzene	91	9.689	9.692	(0.926)	172187	22.0256	2202.56
74	Bromobenzene	156	9.602	9.605	(0.918)	36742	20.8990	2089.90

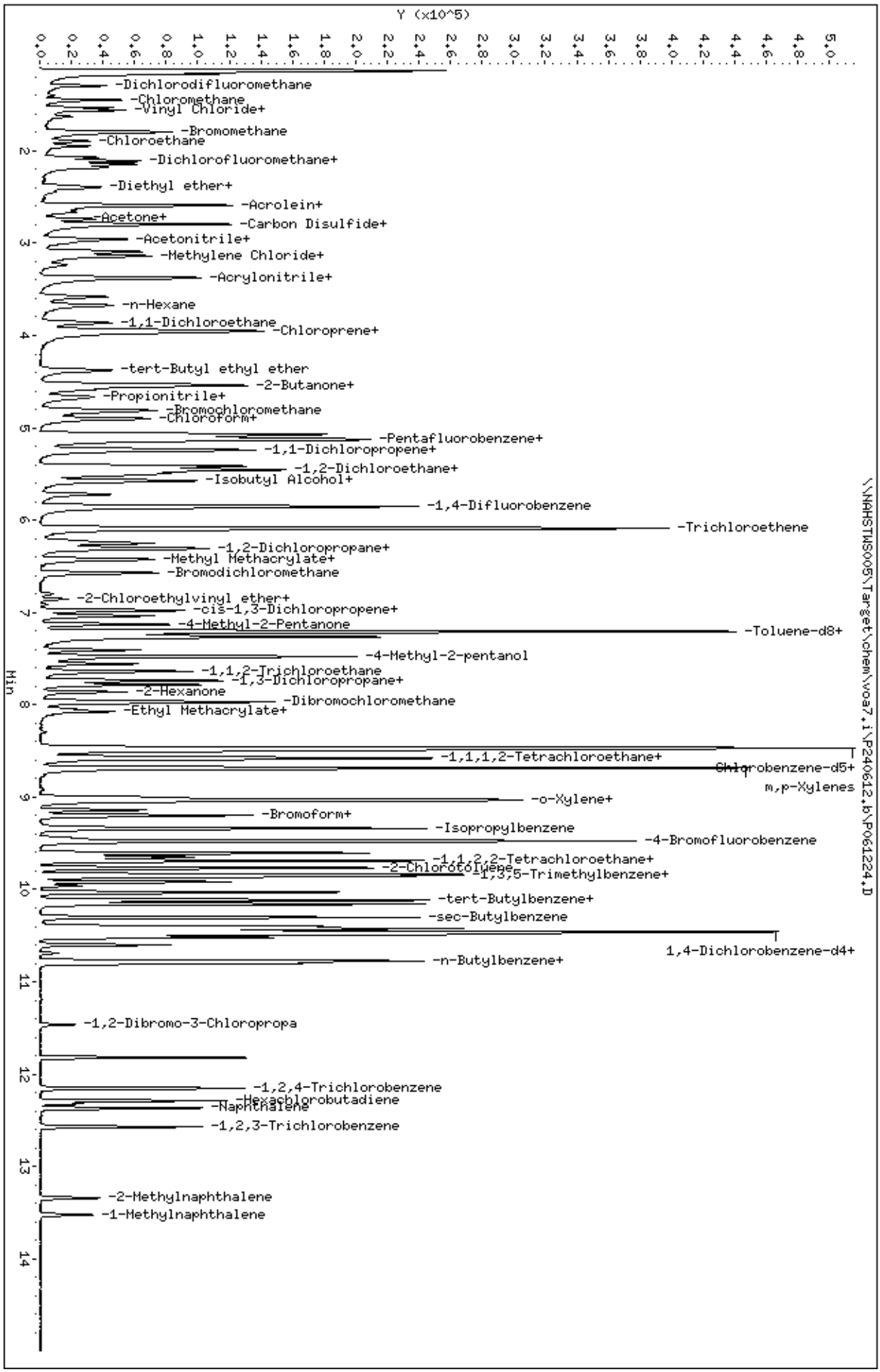
75	1,3,5-Trimethylbenzene	105	9.840	9.840 (0.941)	119320	21.7689	2176.89
76	2-Chlorotoluene	91	9.766	9.766 (0.934)	106255	21.8747	2187.46

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
77	4-Chlorotoluene	91	9.859	9.859	(0.943)	121026	21.2446	2124.45
78	tert-Butylbenzene	119	10.116	10.116	(0.967)	104526	22.5796	2257.95
79	1,2,4-Trimethylbenzene	105	10.155	10.158	(0.971)	121106	21.8455	2184.55
81	sec-Butylbenzene	105	10.303	10.303	(0.985)	142436	22.2203	2222.02
82	p-Isopropyltoluene	119	10.425	10.428	(0.997)	121804	20.2689	2026.89
83	1,3-Dichlorobenzene	146	10.402	10.403	(0.994)	64990	20.6957	2069.57
84	1,4-Dichlorobenzene	146	10.476	10.480	(1.002)	67152	20.6175	2061.75
87	n-Butylbenzene	91	10.775	10.776	(1.030)	111279	20.4347	2043.46
88	1,2-Dichlorobenzene	146	10.798	10.798	(1.032)	62396	20.4166	2041.66
89	1,2-Dibromo-3-Chloropropane	75	11.467	11.467	(1.096)	5171	16.5485	1654.85
90	1,2,4-Trichlorobenzene	180	12.155	12.155	(1.162)	35194	18.8923	1889.23
91	Hexachlorobutadiene	225	12.290	12.290	(1.175)	19650	22.9128	2291.27
92	Naphthalene	128	12.370	12.367	(1.183)	69160	16.7555	1675.55
93	1,2,3-Trichlorobenzene	182	12.570	12.570	(1.202)	26159	17.7800	1777.99
146	Methyl acetate	43	2.991	2.991	(0.583)	20173	19.7687	1976.86
138	Freon TF	101	2.589	2.593	(0.505)	29260	22.9733	2297.33
139	Diethyl ether	59	2.377	2.380	(0.463)	12658	15.0859	1508.59
140	1,3-Butadiene	54	1.560	1.564	(0.304)	17432	22.8996	2289.95
141	Cyclohexane	56	5.107	5.110	(0.996)	49445	23.6839	2368.39
147	Methylcyclohexane	83	6.248	6.252	(1.068)	27583	14.0801	1408.01
132	n-Butanol	56	6.245	6.252	(1.217)	9734	230.999	23099.91
131	Methyl Acrylate	55	4.692	4.689	(0.915)	18702	13.6002	1360.02
133	Ethyl Acrylate	55	6.248	6.248	(1.218)	29036	8.13807	813.80
136	n-Hexane	57	3.673	3.673	(0.716)	28373	20.2050	2020.49
142	Tetrahydrofuran	42	4.866	4.859	(0.949)	5998	27.3320	2733.19
148	Tert-butyl alcohol	59	3.236	3.242	(0.631)	21432	230.221	23022.05
149	Isopropyl alcohol	45	2.821	2.821	(0.550)	16929	209.806	20980.58
151	4-Methyl-2-pentanol	45	7.473	7.480	(0.883)	85888	215.041	21504.08
166	1,2,3-Trimethylbenzene	105	10.518	10.522	(1.006)	69994	13.6200	1362.00
167	Ethanol	45	2.310	2.329	(0.450)	2977	175.748	17574.84
172	tert-Butyl formate	59	3.236	3.242	(0.631)	21432	22.9331	2293.30
173	3,3-Dimethyl-1-butanol	57	8.046	8.043	(0.950)	16249	166.306	16630.62
174	tert-Amyl methyl ether	73	5.576	5.580	(1.087)	49019	13.9826	1398.25
175	tert-Butyl ethyl ether	59	4.377	4.377	(0.853)	53045	14.2943	1429.43
157	2-Methylnaphthalene	142	13.341	13.341	(1.275)	17894	13.8707	1387.07
156	Diisopropyl ether	45	3.946	3.949	(0.769)	65089	14.5563	1455.63
171	1-Methylnaphthalene	142	13.525	13.525	(1.293)	15767	14.5055	1450.55
130	Ethyl Acetate	43	3.946	3.946	(0.769)	158785	19.0526	1905.25
176	tert-Amyl alcohol	59	5.515	5.518	(1.075)	19031	193.858	19385.79(A)
160	Epichlorohydrin	57	6.914	6.914	(1.181)	3904	49.8978	4989.77
161	Butyl acrylate	55	8.997	8.997	(1.063)	42673	13.1722	1317.21
183	Isopropyl Acetate	43	5.573	5.573	(0.952)	74735	17.7685	1776.85(A)
184	n-Amyl acetate	43	9.194	9.197	(1.086)	55659	18.2075	1820.75(A)
185	Acetaldehyde	44	1.631	1.631	(0.318)	31610	71.7854	7178.54(A)
M 94	1,2-Dichloroethylene (total)	96				74459	51.9317	5193.17
M 95	Xylenes (total)	106				174767	69.2103	6921.02

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061224.D
Date : 12-JUN-2024 19:43
Client ID:
Sample Info: HS24060214-10MSD
Purge Volume: 5.0
Column phase: DB624

Instrument: voa7.i
Operator: AP
Column diameter: 0.18

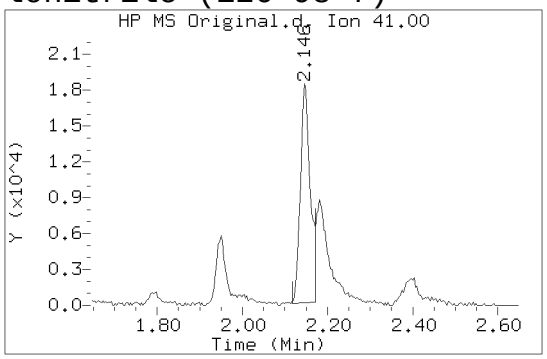
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Inj Date : 12-JUN-2024 19:43
InstruID : voa7.i
LabSampID : HS24060214-10MSD

Methacrylonitrile (126-98-7)

Reason Code:

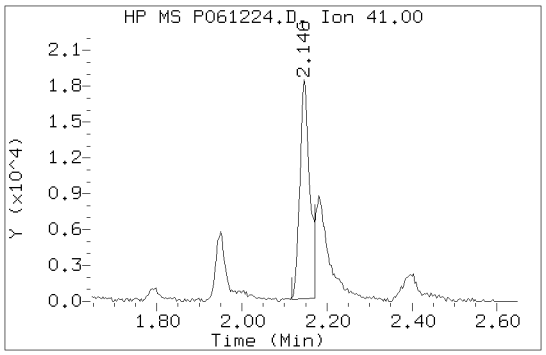
BEFORE

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HEIGHT
18315
22-Jun-2024
12:21
RUCHA
PATEL



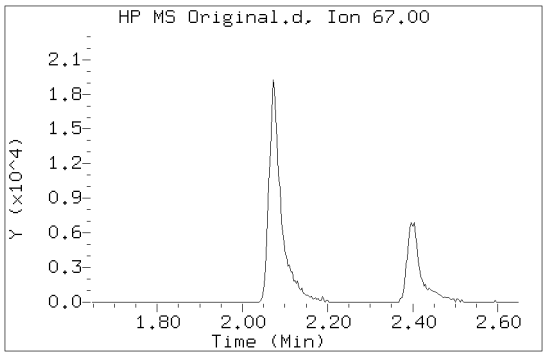
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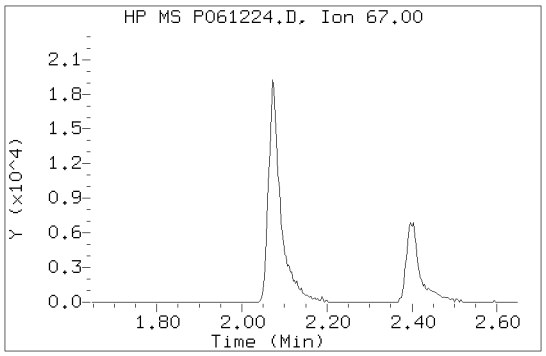
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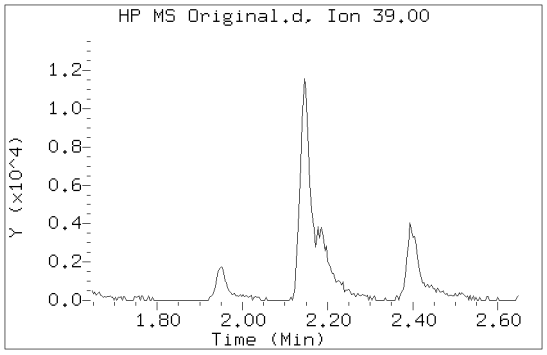
AFTER

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22-Jun-2024
12:21
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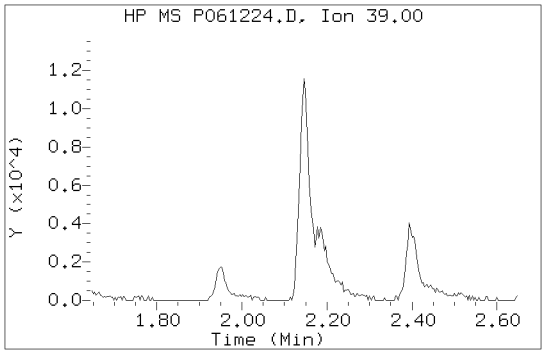
BEFORE

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22-Jun-2024
12:21
RUCHA
PATEL



AFTER

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AREA
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HEIGHT
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22-Jun-2024
12:21
RUCHA
PATEL



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061226.D Page 1
Report Date: 22-Jun-2024 12:55

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061226.D
Lab Smp Id: HS24051959-05
Inj Date : 12-JUN-2024 20:29
Operator : AP   Inst ID: voa7.i
Smp Info : HS24051959-05
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240612.b\8260W.m
Meth Date : 22-Jun-2024 12:55 r.patel   Quant Type: ISTD
Cal Date : 12-JUN-2024 14:46   Cal File: P061211.D
Als bottle: 26
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7056

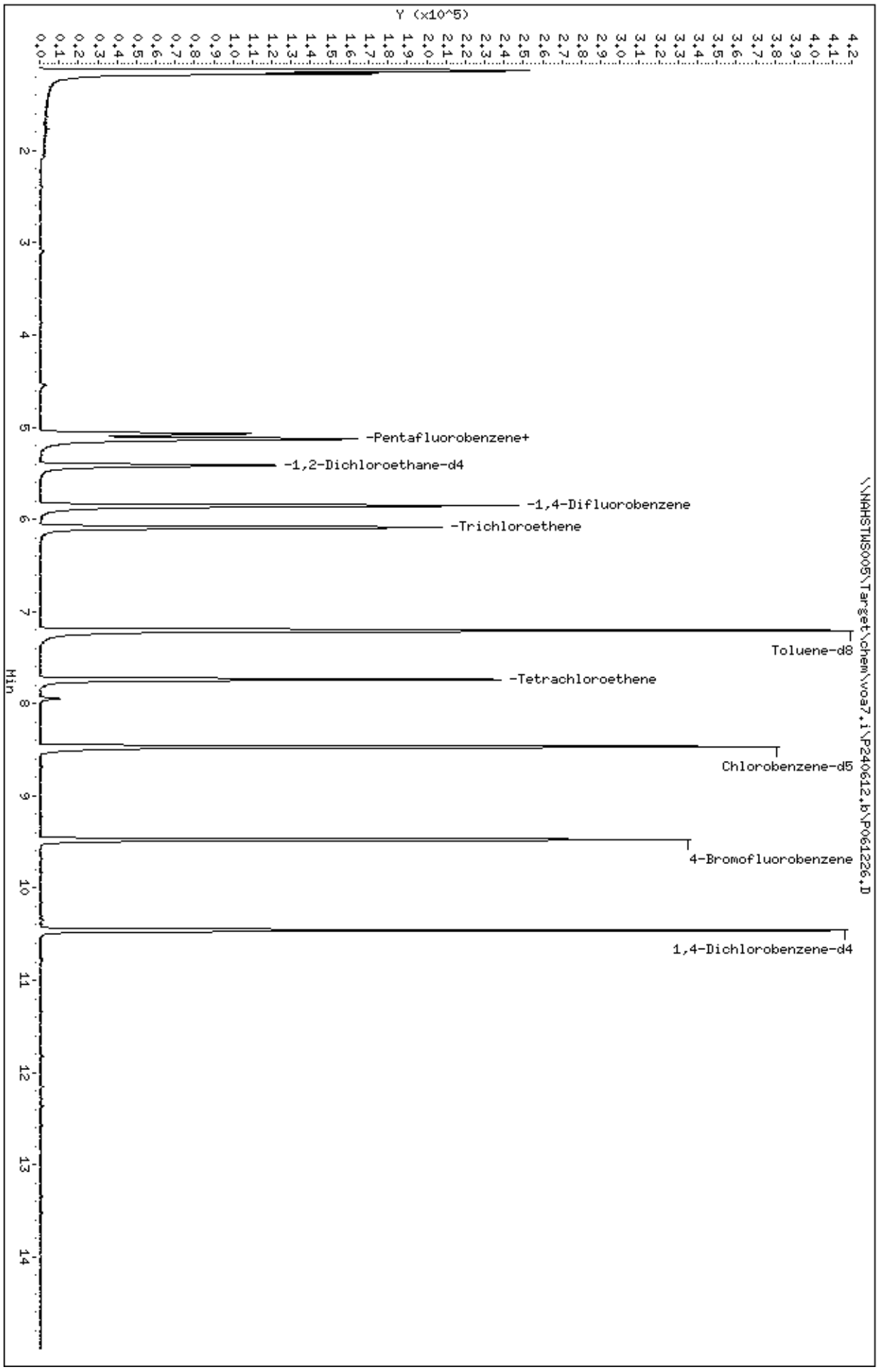
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	5.126	5.130	(1.000)	126040	50.0000	
$ 30 Dibromofluoromethane	113	5.072	5.072	(0.989)	78612	58.3459	58.34(R)
$ 35 1,2-Dichloroethane-d4	65	5.416	5.416	(1.056)	99829	56.4390	56.43
* 36 1,4-Difluorobenzene	114	5.850	5.853	(1.000)	211272	50.0000	
38 Trichloroethene	130	6.085	6.088	(1.040)	72357	49.2409	49.24
* 47 Chlorobenzene-d5	117	8.467	8.467	(1.000)	204942	50.0000	
$ 48 Toluene-d8	98	7.207	7.207	(0.851)	281774	55.2129	55.21(M)
56 Tetrachloroethene	164	7.737	7.737	(0.914)	53982	46.0261	46.02
$ 69 4-Bromofluorobenzene	95	9.474	9.477	(1.119)	105516	52.4934	52.49
* 70 1,4-Dichlorobenzene-d4	152	10.457	10.461	(1.000)	99864	50.0000	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.


Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061226.D
Date : 12-JUN-2024 20:29
Client ID:
Sample Info: HS24051959-05
Purge Volume: 5.0
Column phase: DB624
Instrument: voa7.i
Operator: AP
Column diameter: 0.18
Y (x10^5)
Min
-Pentafluorobenzene+
-1,2-Dichloroethane-d4
-1,4-Difluorobenzene
-Trichloroethene
Toluene-d8
-Tetrachloroethene
Chlorobenzene-d5
4-Bromofluorobenzene
1,4-Dichlorobenzene-d4
\\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061226.D

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061226.D Page 2

Date : 12-JUN-2024 20:29

Client ID:

Instrument: voa7.i

Sample Info: HS24051959-05

Purge Volume: 5.0

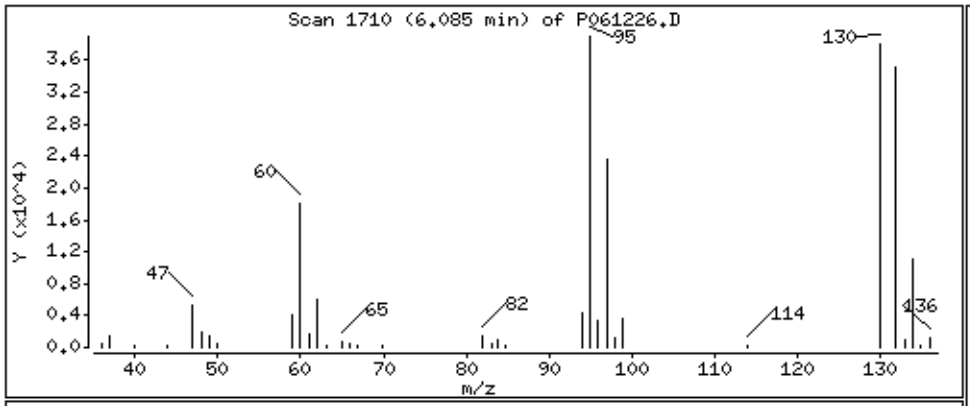
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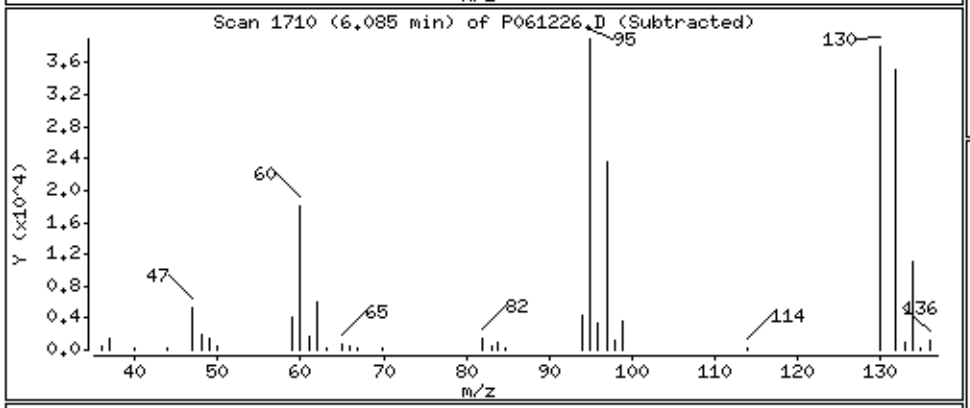
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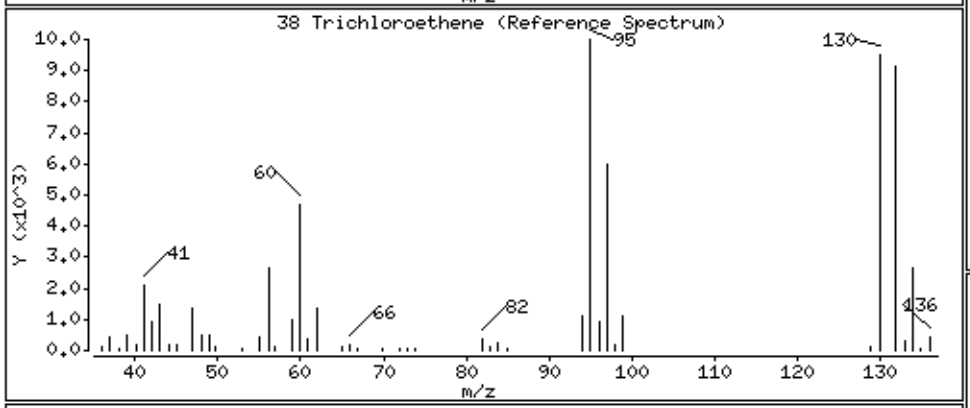
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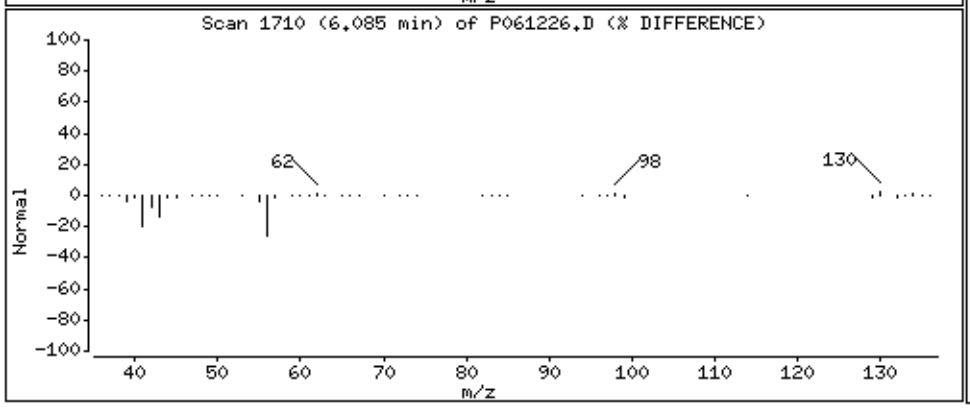
38 Trichloroethene

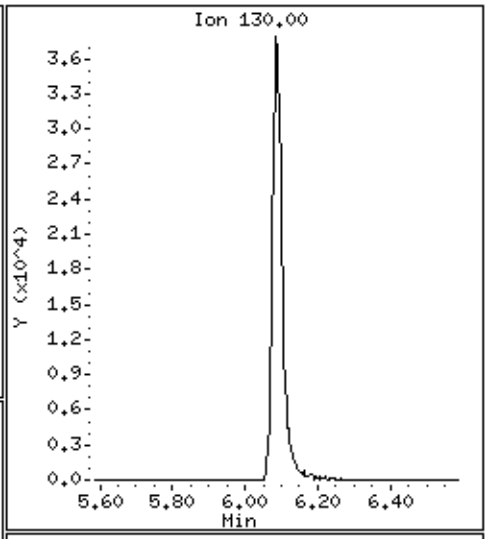
Concentration: 49.24 ug/l

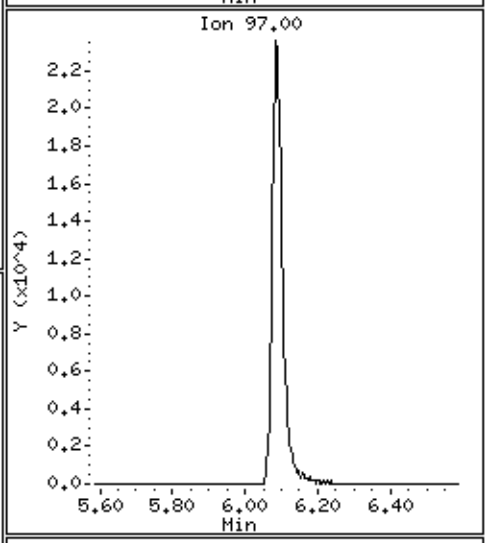


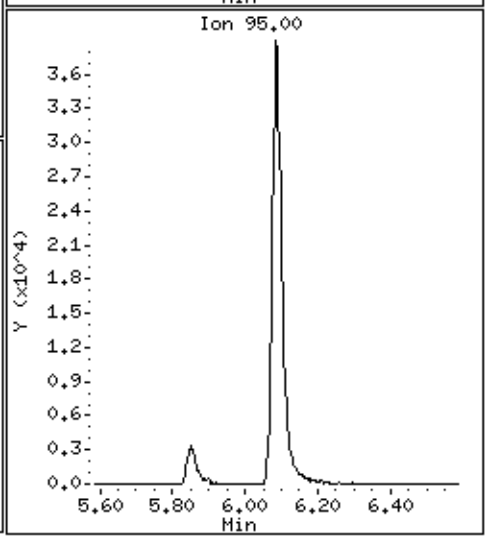












Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061226.D

Date : 12-JUN-2024 20:29

Client ID:

Instrument: voa7.i

Sample Info: HS24051959-05

Purge Volume: 5.0

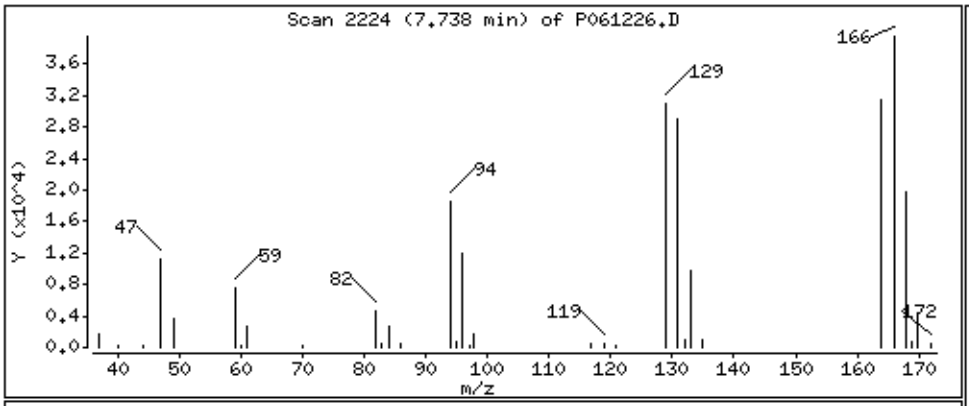
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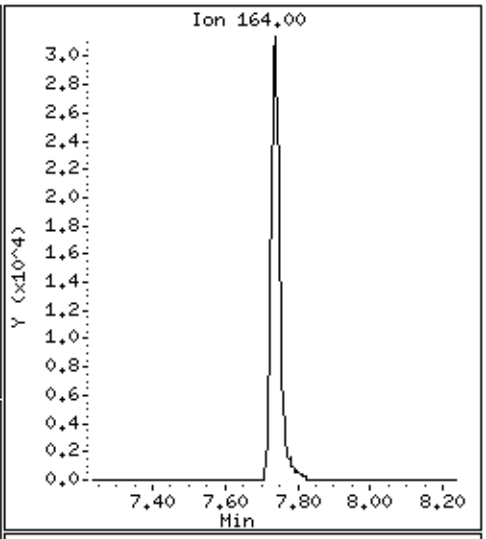
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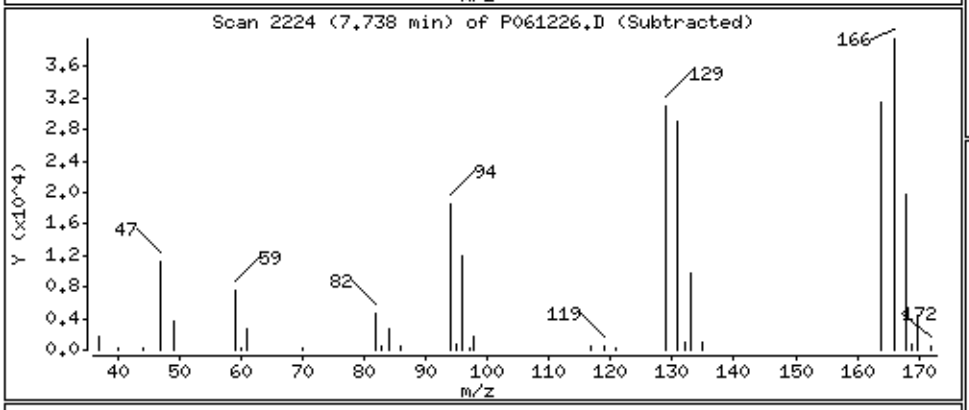
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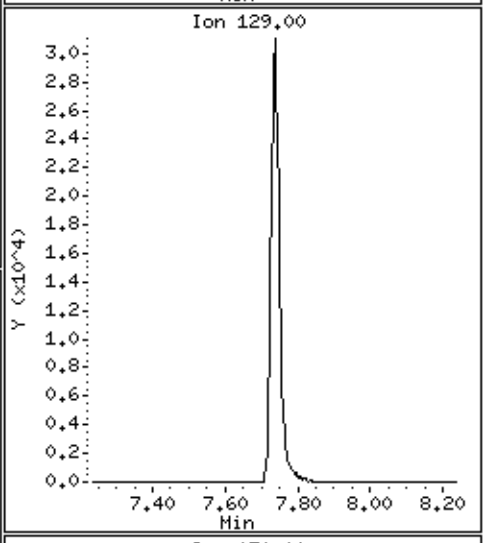
56 Tetrachloroethene

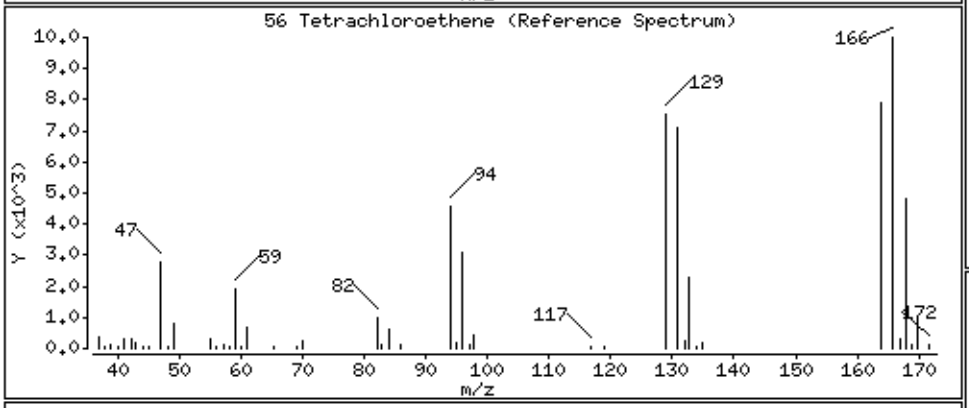
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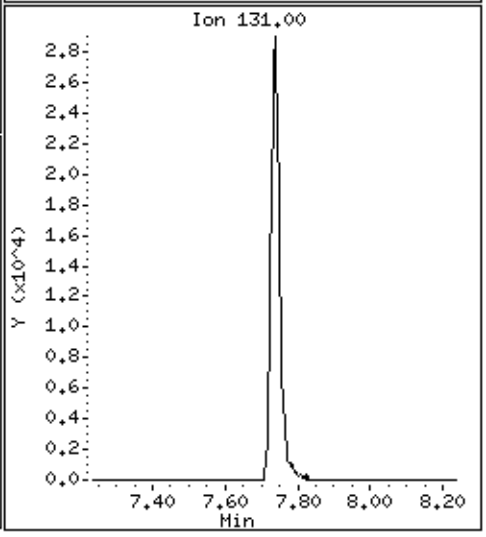


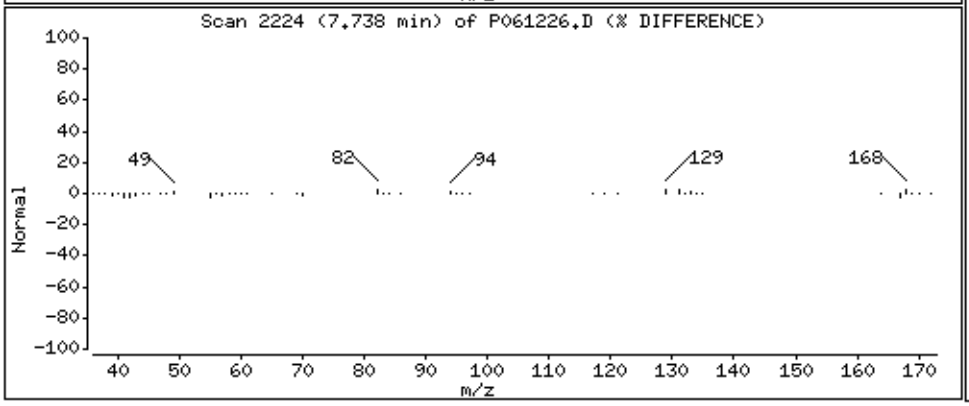










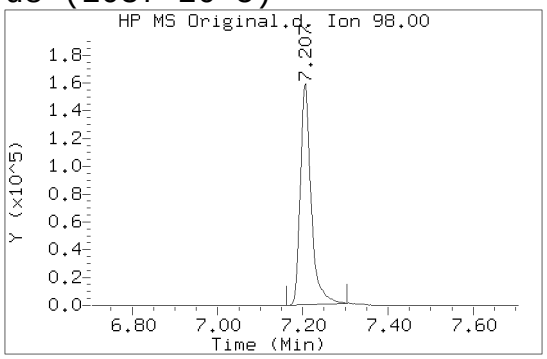


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Inj Date : 12-JUN-2024 20:29
InstruID : voa7.i
LabSampID : HS24051959-05

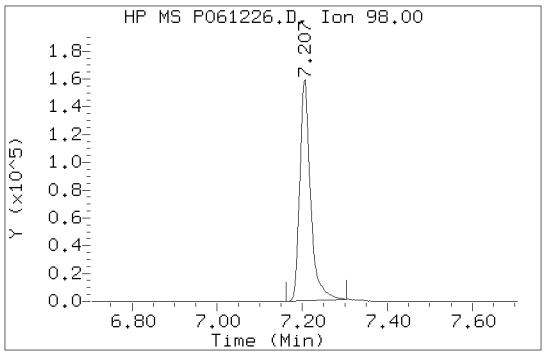
Toluene-d8 (2037-26-5)

Reason Code:

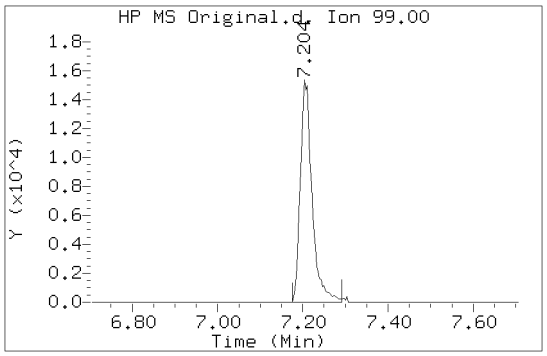
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HEIGHT
159033
22-Jun-2024
12:21
RUCHA
PATEL



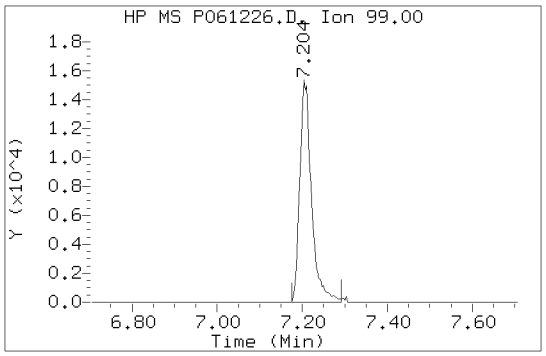
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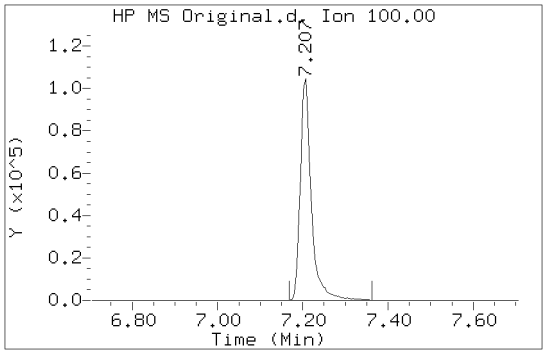
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22-Jun-2024
12:21
RUCHA
PATEL



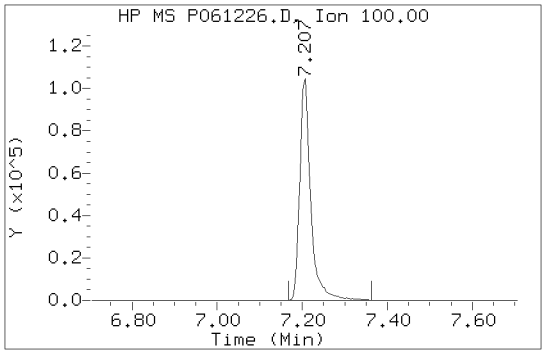
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MASS
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HEIGHT
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22-Jun-2024
12:55
RUCHA
PATEL



BEFORE
MASS
100
AREA
190422
HEIGHT
104576
22-Jun-2024
12:21
RUCHA
PATEL



AFTER
MASS
100
AREA
190422
HEIGHT
104576
22-Jun-2024
12:55
RUCHA
PATEL



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061227.D Page 1
Report Date: 22-Jun-2024 12:55

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061227.D
Lab Smp Id: HS24051959-06
Inj Date : 12-JUN-2024 20:52
Operator : AP   Inst ID: voa7.i
Smp Info : HS24051959-06
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240612.b\8260W.m
Meth Date : 22-Jun-2024 12:55 r.patel   Quant Type: ISTD
Cal Date : 12-JUN-2024 14:46   Cal File: P061211.D
Als bottle: 27
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7056

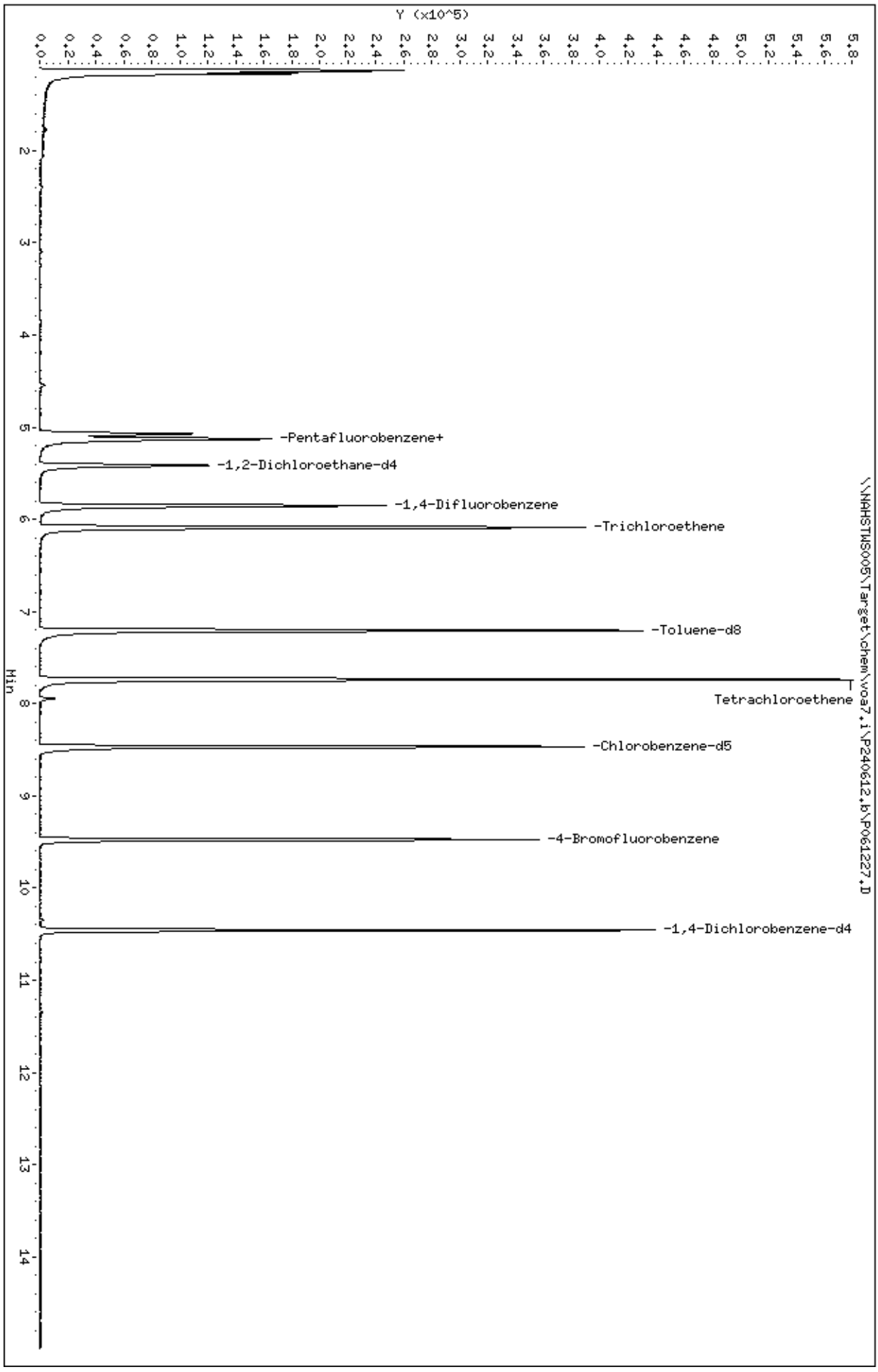
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	5.126	5.130	(1.000)	125735	50.0000	
$ 30 Dibromofluoromethane	113	5.072	5.072	(0.989)	77663	57.7770	57.77(R)
$ 35 1,2-Dichloroethane-d4	65	5.416	5.416	(1.056)	100726	57.0933	57.09
* 36 1,4-Difluorobenzene	114	5.850	5.853	(1.000)	215513	50.0000	
38 Trichloroethene	130	6.085	6.088	(1.040)	132043	88.0939	88.09
* 47 Chlorobenzene-d5	117	8.467	8.467	(1.000)	207130	50.0000	
$ 48 Toluene-d8	98	7.207	7.207	(0.851)	283867	55.0313	55.03(M)
56 Tetrachloroethene	164	7.737	7.737	(0.914)	126296	107.053	107.05
$ 69 4-Bromofluorobenzene	95	9.477	9.477	(1.119)	110361	54.3971	54.39
* 70 1,4-Dichlorobenzene-d4	152	10.457	10.461	(1.000)	101570	50.0000	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.


Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061227.D
Date : 12-JUN-2024 20:52
Client ID:
Sample Info: HS24051959-06
Purge Volume: 5.0
Column phase: DB624
Instrument: voa7.i
Operator: AP
Column diameter: 0.18
Y (x10^5)
-Pentafluorobenzene+
-1,2-Dichloroethane-d4
-1,4-Difluorobenzene
-Trichloroethene
-Toluene-d8
Tetrachloroethene
-Chlorobenzene-d5
-4-Bromofluorobenzene
-1,4-Dichlorobenzene-d4
\\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061227.D
Min

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061227.D

Date : 12-JUN-2024 20:52

Client ID:

Instrument: voa7.i

Sample Info: HS24051959-06

Purge Volume: 5.0

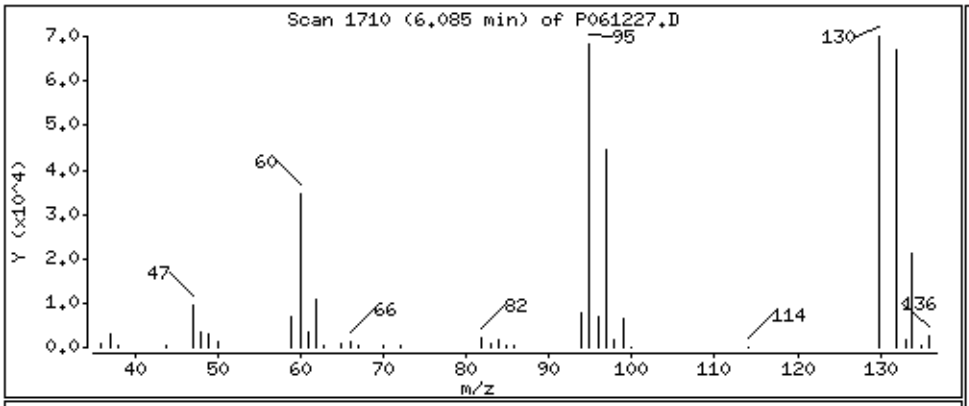
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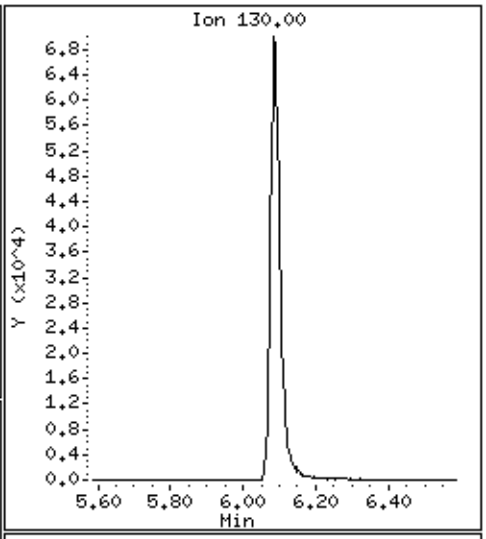
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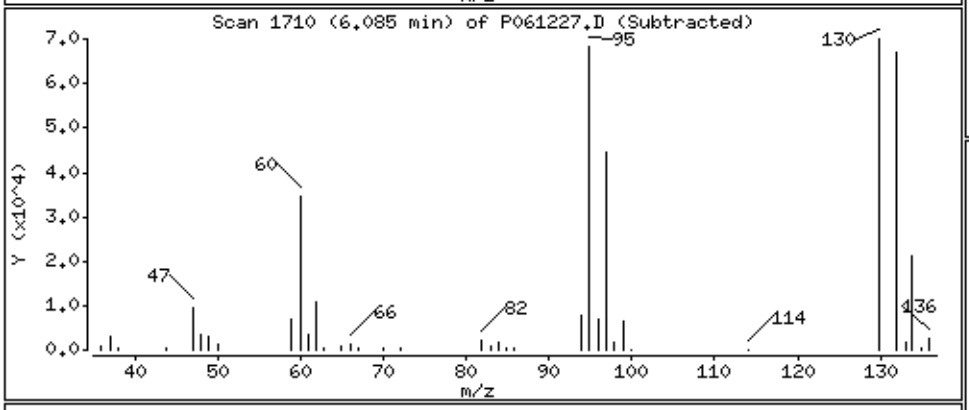
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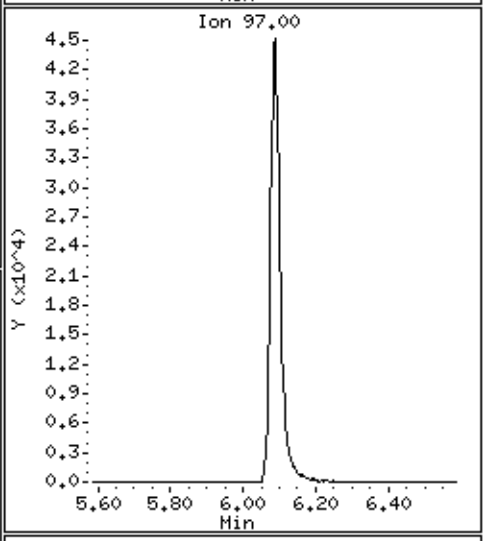
38 Trichloroethene

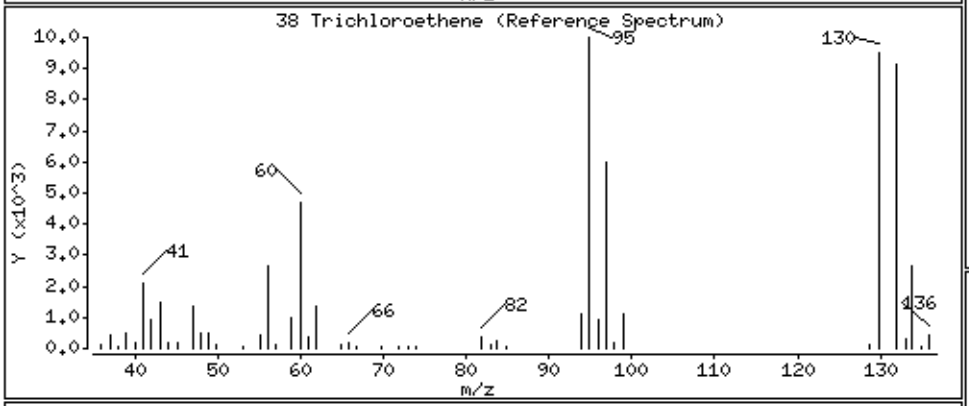
Concentration: 88.09 ug/l

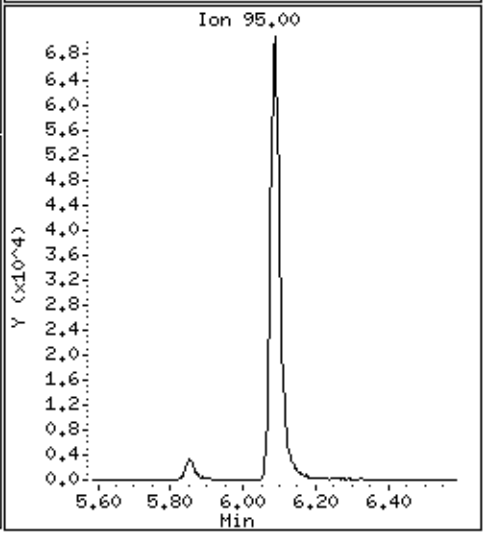


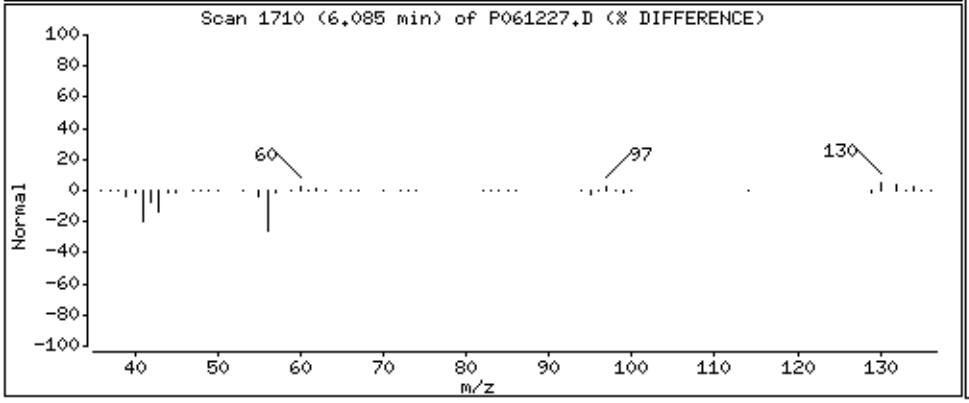












Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061227.D

Date : 12-JUN-2024 20:52

Client ID:

Instrument: voa7.i

Sample Info: HS24051959-06

Purge Volume: 5.0

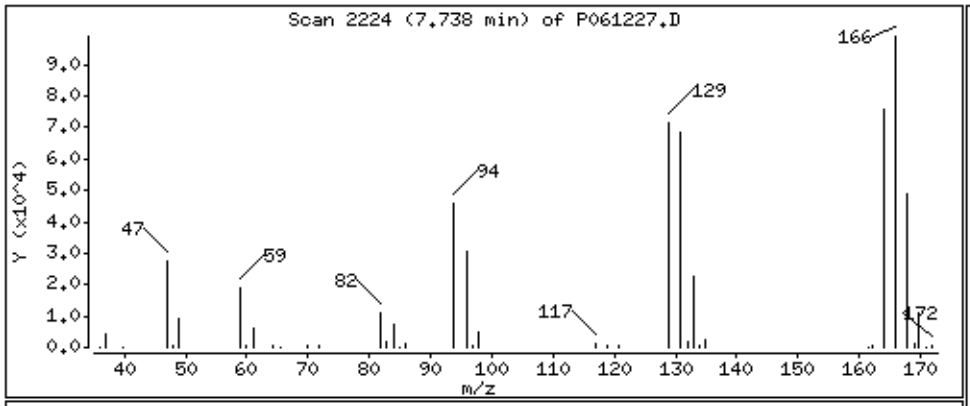
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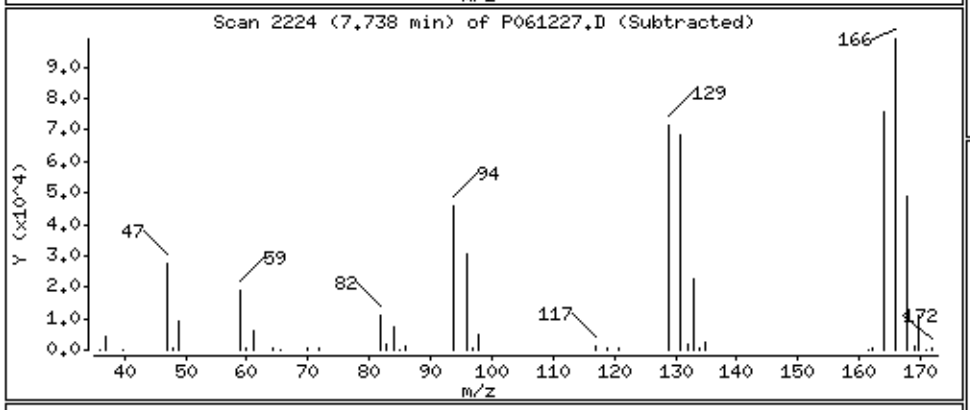
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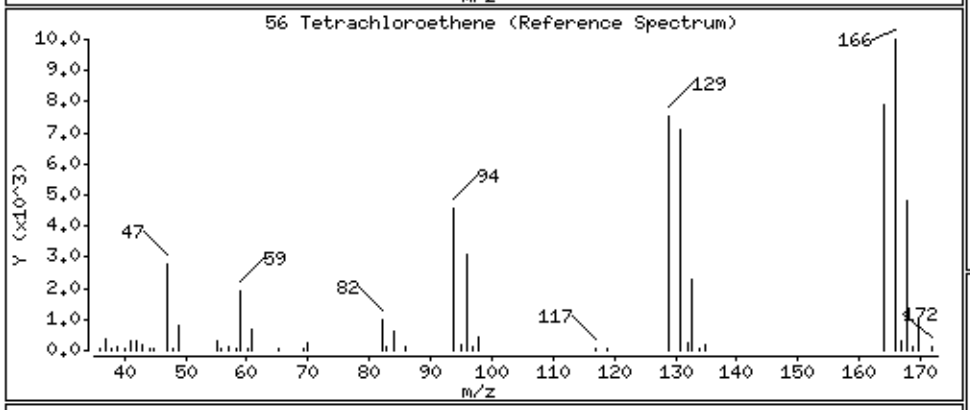
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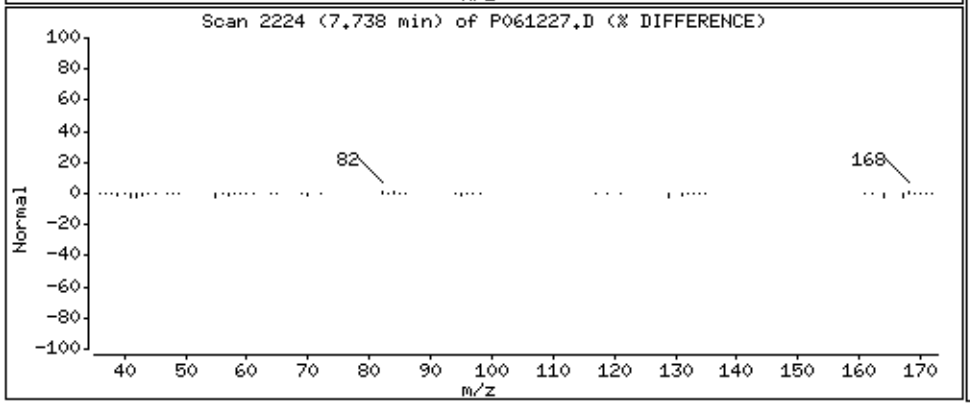
56 Tetrachloroethene

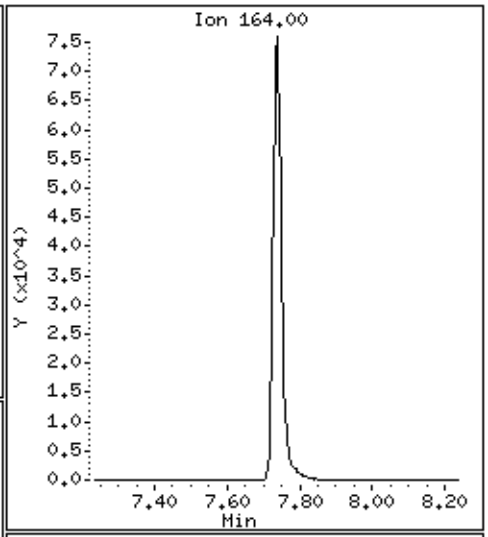
Concentration: 107.05 ug/l

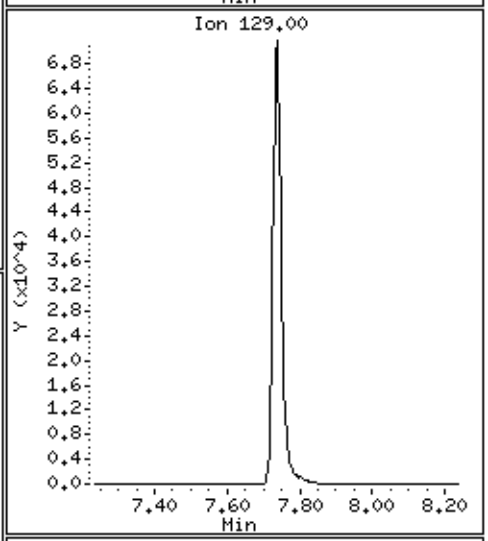


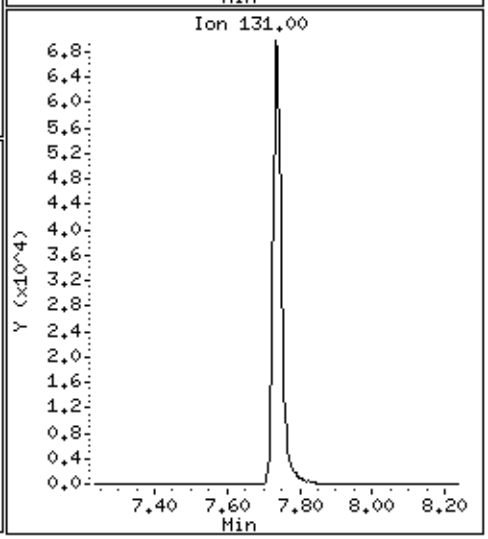










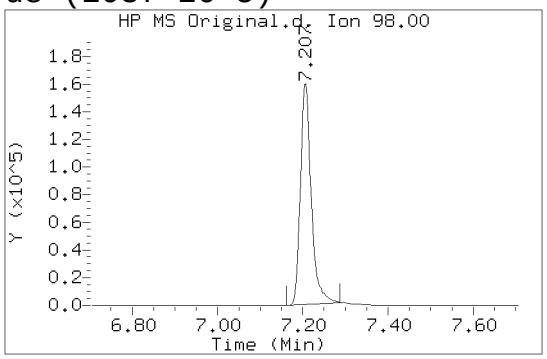


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Inj Date : 12-JUN-2024 20:52
InstruID : voa7.i
LabSampID : HS24051959-06

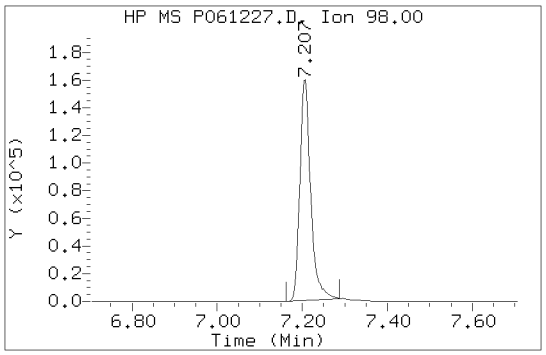
Toluene-d8 (2037-26-5)

Reason Code:

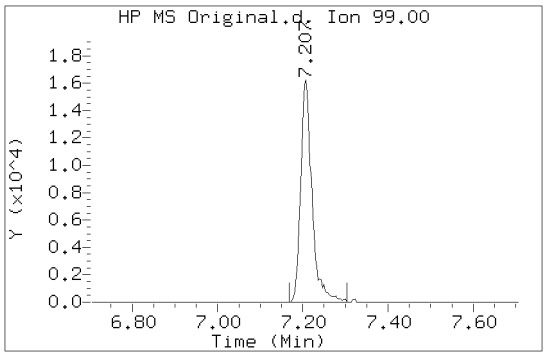
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22-Jun-2024
12:21
RUCHA
PATEL



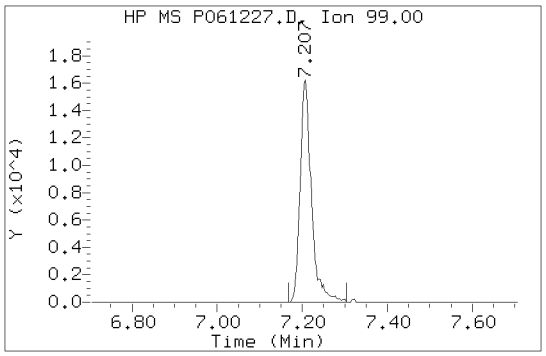
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22-Jun-2024
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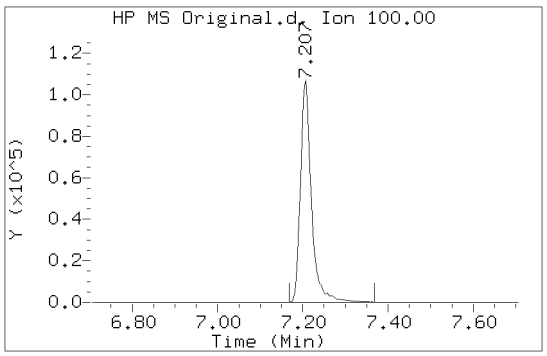
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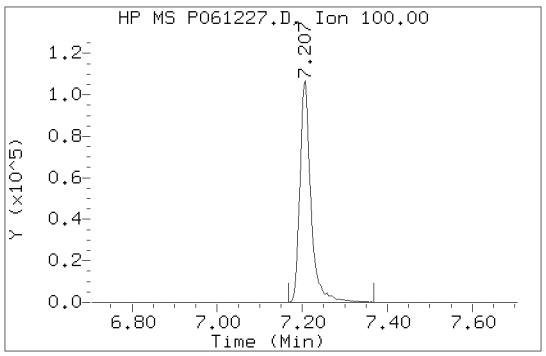
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HEIGHT
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22-Jun-2024
12:55
RUCHA
PATEL



BEFORE
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100
AREA
193418
HEIGHT
106784
22-Jun-2024
12:21
RUCHA
PATEL



AFTER
MASS
100
AREA
193418
HEIGHT
106784
22-Jun-2024
12:55
RUCHA
PATEL



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061242.D Page 1
Report Date: 22-Jun-2024 12:22

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061242.D
Lab Smp Id: VSTD050
Inj Date : 13-JUN-2024 02:40
Operator : AP   Inst ID: voa7.i
Smp Info : VSTD050
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240612.b\8260W.m
Meth Date : 22-Jun-2024 12:22 voa7.i   Quant Type: ISTD
Cal Date : 12-JUN-2024 14:46   Cal File: P061211.D
Als bottle: 42   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	5.130	5.130	(1.000)	129127	50.0000	
2 Dichlorodifluoromethane	85	1.294	1.294	(0.252)	72266	50.0000	54.39
159 Dichlorofluoromethane	67	2.075	2.075	(0.405)	121528	50.0000	45.56
3 Chloromethane	50	1.448	1.448	(0.282)	108885	50.0000	54.06
4 Propionitrile	54	4.670	4.670	(0.910)	73006	500.000	425.90
5 Vinyl Chloride	62	1.535	1.535	(0.299)	92866	50.0000	52.31
6 Bromomethane	94	1.805	1.805	(0.352)	58743	50.0000	51.81
7 Chloroethane	64	1.895	1.895	(0.369)	56614	50.0000	52.70
8 Trichlorofluoromethane	101	2.110	2.110	(0.411)	122057	50.0000	51.88
9 Acrolein	56	2.516	2.516	(0.490)	4345	100.000	84.80
10 Acetone	43	2.667	2.667	(0.520)	37532	100.000	84.93
11 1,1-Dichloroethene	96	2.586	2.586	(0.504)	66532	50.0000	53.45
12 Isobutyl Alcohol	43	5.570	5.570	(1.086)	183072	1000.00	895.72
13 Acetonitrile	39	2.959	2.959	(0.577)	88292	500.000	484.96
14 Allyl Chloride	41	2.959	2.959	(0.577)	184462	50.0000	47.51
15 Iodomethane	142	2.741	2.741	(0.534)	101760	100.000	104.13
16 Acrylonitrile	53	3.374	3.374	(0.658)	39365	100.000	90.61
17 Methylene Chloride	84	3.091	3.091	(0.603)	76513	50.0000	51.43
18 Methyl tert-butyl ether	73	3.377	3.377	(0.658)	151642	50.0000	44.56
19 Carbon Disulfide	76	2.792	2.792	(0.544)	410742	100.000	100.88

20 trans-1,2-Dichloroethene	96	3.374	3.374 (0.658)	67554	50.0000	48.90
21 Vinyl Acetate	43	4.654	4.654 (0.907)	65146	100.000	91.59

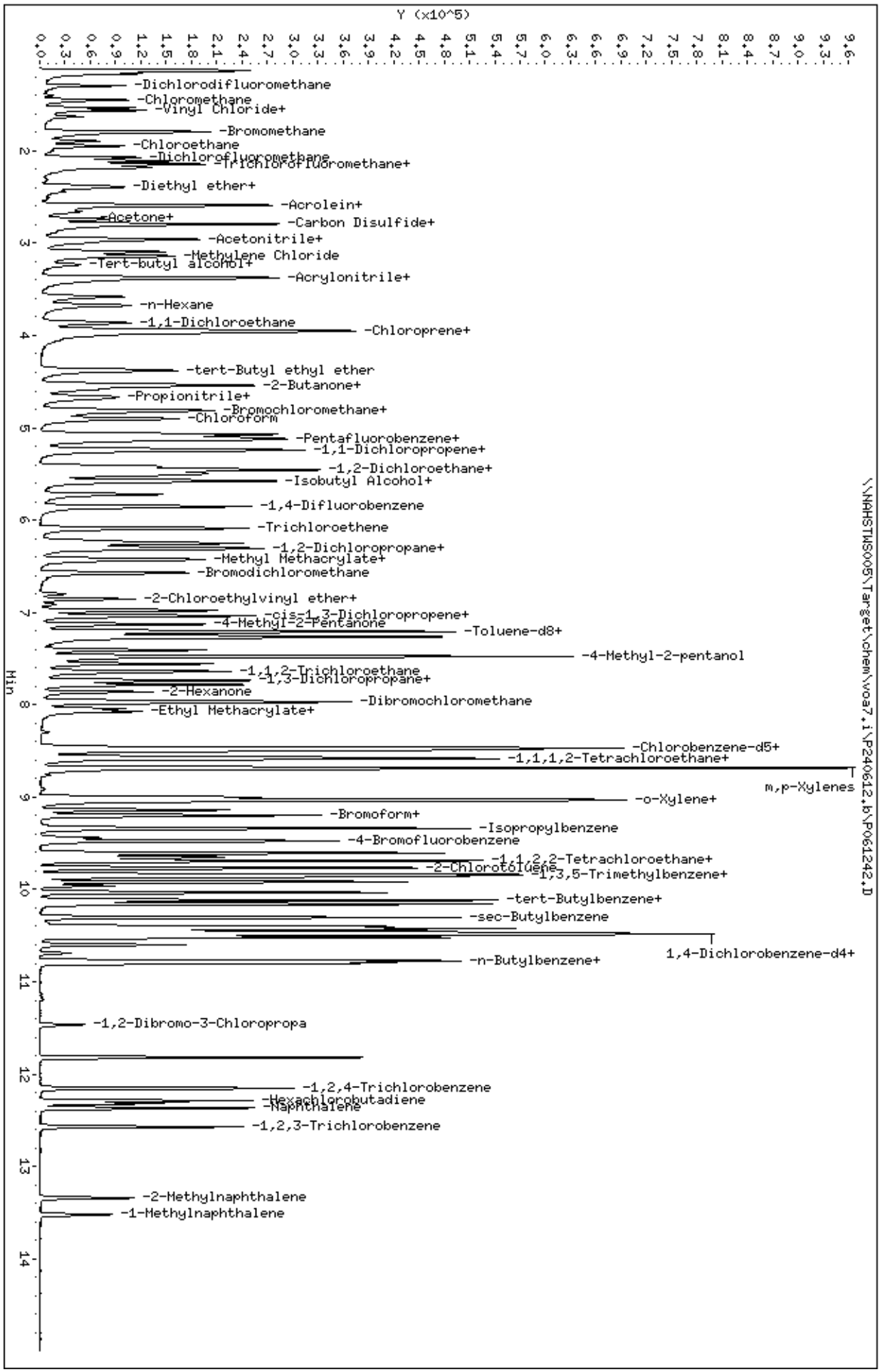
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
22	1,1-Dichloroethane	63	3.863	3.863	(0.753)	145385	50.0000	52.12
23	Chloroprene	53	3.962	3.962	(0.772)	118591	50.0000	48.95
24	2-Butanone	43	4.586	4.586	(0.894)	50949	100.000	86.27
25	Methacrylonitrile	41	2.146	2.146	(0.418)	100490	50.0000	47.73(T)
26	2,2-Dichloropropane	77	4.532	4.532	(0.883)	111479	50.0000	46.03
27	cis-1,2-Dichloroethene	96	4.541	4.541	(0.885)	77056	50.0000	50.26
28	Chloroform	83	4.905	4.905	(0.956)	139511	50.0000	50.91
29	Bromochloromethane	128	4.808	4.808	(0.937)	38207	50.0000	52.15
$ 30	Dibromofluoromethane	113	5.072	5.072	(0.989)	79975	50.0000	57.93
31	1,1,1-Trichloroethane	97	5.072	5.072	(0.989)	120317	50.0000	49.64
32	1,1-Dichloropropene	75	5.245	5.245	(0.896)	105012	50.0000	48.99
33	1,2-Dichloroethane	62	5.490	5.490	(0.938)	115320	50.0000	48.94
34	Carbon Tetrachloride	117	5.232	5.232	(0.894)	104400	50.0000	47.74
$ 35	1,2-Dichloroethane-d4	65	5.416	5.416	(1.056)	102867	50.0000	56.77
* 36	1,4-Difluorobenzene	114	5.853	5.853	(1.000)	215903	50.0000	
37	Benzene	78	5.458	5.458	(0.932)	285841	50.0000	50.04
38	Trichloroethene	130	6.088	6.088	(1.040)	74916	50.0000	49.88
39	Bromodichloromethane	83	6.570	6.570	(1.122)	104528	50.0000	47.93
40	Methyl Methacrylate	41	6.432	6.432	(1.254)	62529	50.0000	46.83
41	2-Chloroethylvinyl ether	63	6.853	6.853	(1.171)	46222	100.000	80.66
42	1,2-Dichloropropane	63	6.310	6.310	(1.078)	82906	50.0000	50.01
43	2-Nitropropane	43	6.802	6.802	(1.326)	18520	50.0000	41.22
44	Dibromomethane	93	6.416	6.416	(1.096)	44976	50.0000	47.90
45	4-Methyl-2-Pentanone	43	7.126	7.126	(0.842)	130024	100.000	88.34
46	cis-1,3-Dichloropropene	75	6.978	6.978	(1.192)	112706	50.0000	46.47
* 47	Chlorobenzene-d5	117	8.467	8.467	(1.000)	201770	50.0000	
$ 48	Toluene-d8	98	7.207	7.207	(0.851)	289666	50.0000	57.70
49	Ethyl Methacrylate	69	8.039	8.039	(1.374)	44133	50.0000	31.78
50	Toluene	91	7.265	7.265	(0.858)	296424	50.0000	50.12
51	trans-1,3-Dichloropropene	75	6.978	6.978	(1.192)	112706	50.0000	46.47
52	2-Hexanone	43	7.859	7.859	(0.928)	85626	100.000	83.46
53	1,1,2-Trichloroethane	83	7.638	7.638	(0.902)	55311	50.0000	48.56
54	1,3-Dichloropropane	76	7.782	7.782	(0.919)	114786	50.0000	48.36
55	Dibromochloromethane	129	7.975	7.975	(0.942)	76288	50.0000	47.75
56	Tetrachloroethene	164	7.737	7.737	(0.914)	55536	50.0000	48.11
57	1,2-Dibromoethane	107	8.072	8.072	(0.953)	52805	50.0000	48.24
58	1-Chlorohexane	55	8.467	8.467	(1.447)	69292	50.0000	48.32
59	Chlorobenzene	112	8.490	8.490	(1.003)	192425	50.0000	49.70
60	1,1,1,2-Tetrachloroethane	131	8.564	8.564	(1.011)	67775	50.0000	46.77
61	Ethylbenzene	106	8.583	8.583	(1.014)	97611	50.0000	48.63
62	m,p-Xylenes	106	8.686	8.686	(1.026)	249077	100.000	98.42
63	o-Xylene	106	9.023	9.023	(1.066)	120808	50.0000	49.68
64	Styrene	104	9.039	9.039	(1.068)	203259	50.0000	49.50
66	Bromoform	173	9.207	9.207	(1.087)	46145	50.0000	45.58
67	Isopropylbenzene	105	9.338	9.338	(1.103)	301379	50.0000	48.81
68	1,1,2,2-Tetrachloroethane	83	9.609	9.609	(0.919)	80901	50.0000	45.56
$ 69	4-Bromofluorobenzene	95	9.477	9.477	(1.119)	105937	50.0000	53.57
* 70	1,4-Dichlorobenzene-d4	152	10.461	10.461	(1.000)	104482	50.0000	
71	1,2,3-Trichloropropane	75	9.647	9.647	(0.922)	88100	50.0000	45.70
72	trans-1,4-Dichloro-2-butene	53	9.657	9.657	(1.140)	17990	50.0000	43.72
73	n-Propylbenzene	91	9.689	9.689	(0.926)	360675	50.0000	47.76
74	Bromobenzene	156	9.605	9.605	(0.918)	82331	50.0000	49.09

75	1,3,5-Trimethylbenzene	105	9.837	9.837 (0.940)	251736	50.0000	47.20
76	2-Chlorotoluene	91	9.766	9.766 (0.934)	226197	50.0000	48.57

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
77	4-Chlorotoluene	91	9.859	9.859	(0.943)	264046	50.0000	48.39
78	tert-Butylbenzene	119	10.117	10.117	(0.967)	216300	50.0000	48.45
79	1,2,4-Trimethylbenzene	105	10.155	10.155	(0.971)	259971	50.0000	48.56
81	sec-Butylbenzene	105	10.303	10.303	(0.985)	300172	50.0000	48.40
82	p-Isopropyltoluene	119	10.425	10.425	(0.997)	257584	50.0000	43.27
83	1,3-Dichlorobenzene	146	10.403	10.403	(0.994)	146107	50.0000	48.23
84	1,4-Dichlorobenzene	146	10.480	10.480	(1.002)	150167	50.0000	47.92
87	n-Butylbenzene	91	10.772	10.772	(1.030)	234821	50.0000	43.53
88	1,2-Dichlorobenzene	146	10.798	10.798	(1.032)	141820	50.0000	48.18
89	1,2-Dibromo-3-Chloropropane	75	11.464	11.464	(1.096)	12147	50.0000	39.24
90	1,2,4-Trichlorobenzene	180	12.155	12.155	(1.162)	81454	50.0000	44.00
91	Hexachlorobutadiene	225	12.290	12.290	(1.175)	40420	50.0000	47.57
92	Naphthalene	128	12.367	12.367	(1.182)	170281	50.0000	41.67
93	1,2,3-Trichlorobenzene	182	12.570	12.570	(1.202)	60319	50.0000	40.97(T)
146	Methyl acetate	43	2.991	2.991	(0.583)	47143	50.0000	46.10
138	Freon TF	101	2.593	2.593	(0.505)	67568	50.0000	51.00
139	Diethyl ether	59	2.380	2.380	(0.464)	41414	50.0000	47.36
140	1,3-Butadiene	54	1.564	1.564	(0.305)	40104	50.0000	50.38
141	Cyclohexane	56	5.110	5.110	(0.996)	106781	50.0000	50.23
147	Methylcyclohexane	83	6.249	6.249	(1.068)	95485	50.0000	45.42
132	n-Butanol	56	6.252	6.252	(1.219)	39459	1000.00	912.80(T)
131	Methyl Acrylate	55	4.689	4.689	(0.914)	61559	50.0000	45.46
133	Ethyl Acrylate	55	6.220	6.220	(1.212)	71279	50.0000	19.49
136	n-Hexane	57	3.673	3.673	(0.716)	70169	50.0000	47.25
142	Tetrahydrofuran	42	4.856	4.856	(0.947)	19689	100.000	86.04
148	Tert-butyl alcohol	59	3.236	3.236	(0.631)	65600	1000.00	758.74
149	Isopropyl alcohol	45	2.815	2.815	(0.549)	53243	1000.00	648.15
151	4-Methyl-2-pentanol	45	7.477	7.477	(0.883)	297417	1000.00	734.58
166	1,2,3-Trimethylbenzene	105	10.518	10.518	(1.006)	231658	50.0000	48.87
167	Ethanol	45	2.313	2.313	(0.451)	9132	1000.00	666.87
172	tert-Butyl formate	59	3.236	3.236	(0.631)	65600	100.000	75.83
173	3,3-Dimethyl-1-butanol	57	8.046	8.046	(0.950)	60853	1000.00	634.18
174	tert-Amyl methyl ether	73	5.577	5.577	(1.087)	166723	50.0000	48.00
175	tert-Butyl ethyl ether	59	4.377	4.377	(0.853)	181539	50.0000	48.13
157	2-Methylnaphthalene	142	13.345	13.345	(1.276)	49664	50.0000	33.41
156	Diisopropyl ether	45	3.946	3.946	(0.769)	227646	50.0000	49.21
171	1-Methylnaphthalene	142	13.522	13.522	(1.293)	41460	50.0000	34.13
130	Ethyl Acetate	43	3.946	3.946	(0.769)	378919	50.0000	43.69
176	tert-Amyl alcohol	59	5.512	5.512	(1.075)	63525	1000.00	727.59(A)
160	Epichlorohydrin	57	6.914	6.914	(1.181)	13922	200.000	172.69
161	Butyl acrylate	55	8.998	8.998	(1.063)	143462	50.0000	43.34(T)
183	Isopropyl Acetate	43	5.570	5.570	(0.952)	183072	50.0000	44.10(A)
184	n-Amyl acetate	43	9.194	9.194	(1.086)	132354	50.0000	41.89(A)
185	Acetaldehyde	44	1.628	1.628	(0.317)	65037	200.000	202.30(A)

QC Flag Legend

T - Target compound detected outside RT window.
A - Target compound detected but, quantitated amount
    exceeded maximum amount.



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061242.D
Date : 13-JUN-2024 02:40
Client ID:
Sample Info: VSTD050
Purge Volume: 5.0
Column phase: DB624

Instrument: voa7.i
Operator: AP
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061242.D
Inj Date : 13-JUN-2024 02:40
InstruID : voa7.i
LabSampID : VSTD050

NO MANUAL INTEGRATIONS

01338071

right solutions.
right partner.

RawData

<textMethods>

Workorder

HS24051959

Client

Bhate Environmental Associates, Inc.

Project

LHAAP-58

07/03/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Data File: \\nahstws005\Target\chem\voa9.i\U240605.b\W060501.D Page 1
Report Date: 05-Jun-2024 19:01

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240605.b\W060501.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 05-JUN-2024 18:36
Operator : TS Inst ID: VOA9.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240605.b\8260C.m
Meth Date : 05-Jun-2024 18:34 Firat.Tast Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 3 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	
* 1 Pentafluorobenzene	168	4.811	4.811	(1.000)	210126	50.0000		
$ 30 Dibromofluoromethane	113	4.744	4.744	(0.986)	77529			(R)
$ 35 1,2-Dichloroethane-d4	65	5.093	5.092	(1.058)	99069			(R)
* 36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	311736	50.0000		
* 47 Chlorobenzene-d5	117	8.182	8.181	(1.000)	278048	50.0000		
$ 48 Toluene-d8	98	6.918	6.918	(0.846)	301653			(R)
$ 69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	105134			(R)
* 70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	139374	50.0000		

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060502.D Page 1
Report Date: 21-Jun-2024 17:11

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060502.D
Lab Smp Id: VSTD00.25 Client Smp ID: VSTD00.25
Inj Date : 05-JUN-2024 18:58
Operator : TS Inst ID: VOA9.i
Smp Info : VSTD00.25;VSTD00.25;1;1
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240605.b\8260C.m
Meth Date : 21-Jun-2024 17:11 VOA9.i Quant Type: ISTD
Cal Date : 05-JUN-2024 19:20 Cal File: W060503.D
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

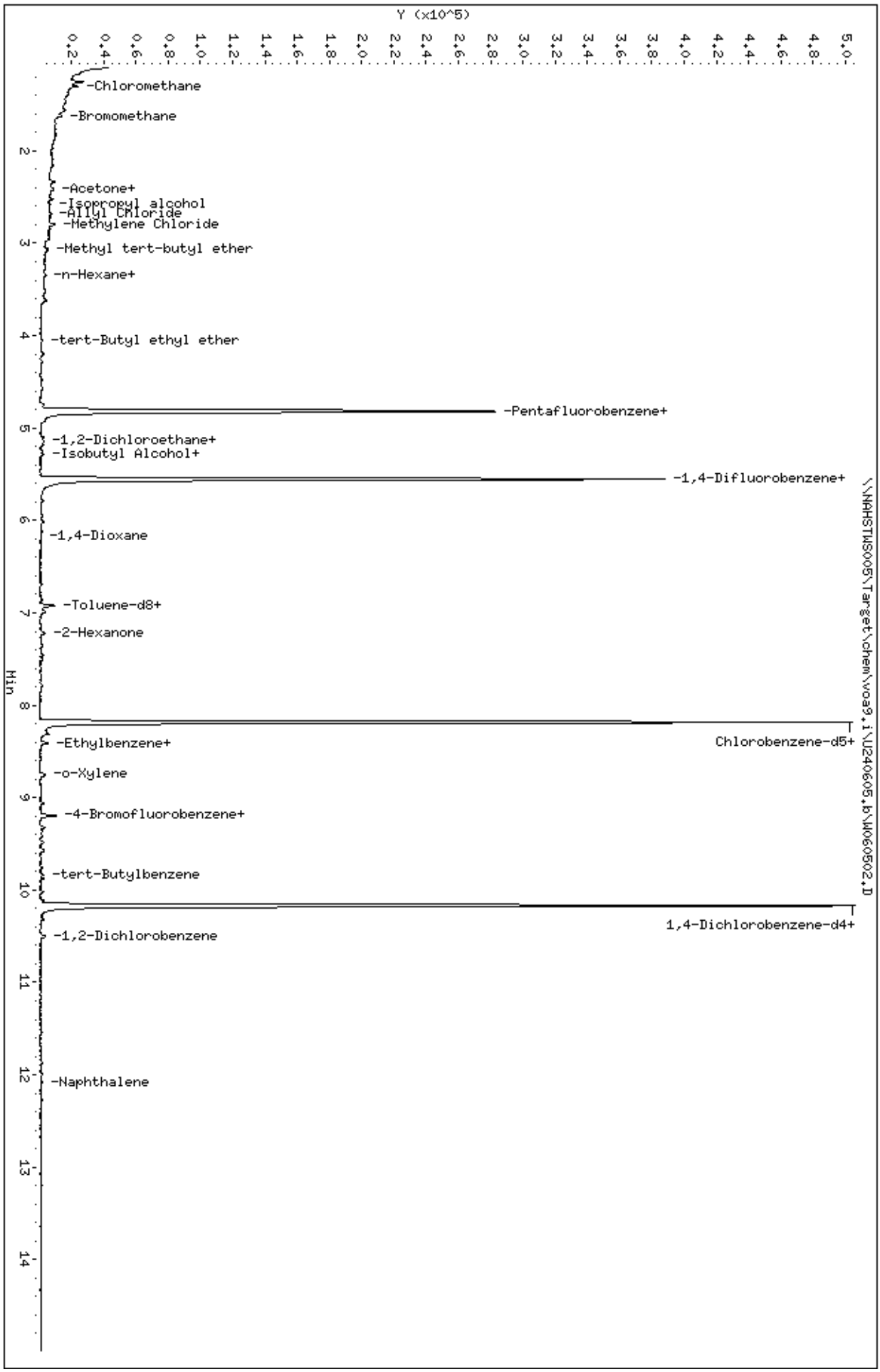
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Pentafluorobenzene	168	4.819	4.819	(1.000)	203418	50.0000	
	2 Dichlorodifluoromethane	85	1.014	1.014	(0.210)	10189	0.25000	16.67
	5 Vinyl Chloride	62	1.029	1.029	(0.214)	7241	0.25000	5.24
	6 Bromomethane	94	1.625	1.625	(0.337)	920	0.25000	0.93
	10 Acetone	43	2.416	2.416	(0.501)	2375	0.50000	0.28(a)
	12 Isobutyl Alcohol	43	5.291	5.291	(1.098)	1720	5.00000	7.95(Ta)
	14 Allyl Chloride	41	2.678	2.678	(0.556)	1075	0.25000	0.35(a)
	15 Iodomethane	142	2.472	2.472	(0.513)	815	0.50000	1.36(T)
	18 Methyl tert-butyl ether	73	3.087	3.087	(0.641)	856	0.25000	0.19(a)
$	30 Dibromofluoromethane	113	4.751	4.751	(0.986)	810	0.25000	0.55
	34 Carbon Tetrachloride	117	4.815	4.815	(0.867)	18529	0.25000	11.55
$	35 1,2-Dichloroethane-d4	65	5.100	5.100	(1.058)	1479	50.0000	0.82(T)
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	300967	50.0000	
	37 Benzene	78	5.141	5.141	(0.926)	2260	0.25000	0.52(T)
	42 1,2-Dichloropropane	63	5.554	5.554	(1.000)	62300	0.25000	39.03
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	266655	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	5479	50.0000	1.02(Ta)
	50 Toluene	91	6.986	6.986	(0.853)	1837	0.25000	0.30(a)
	58 1-Chlorohexane	55	8.185	8.185	(1.474)	3114	0.25000	2.32(a)
	61 Ethylbenzene	106	8.414	8.414	(1.028)	1303	0.25000	0.68(a)

62 m,p-Xylenes	106	8.414	8.414 (1.028)	1303	0.50000	0.55(a)
63 o-Xylene	106	8.751	8.751 (1.069)	714	0.25000	0.31(a)

			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
$	69	4-Bromofluorobenzene	95	9.197	9.197	(1.124)	2984	50.0000	1.54(a)
*	70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	131793	50.0000	
	71	1,2,3-Trichloropropane	75	9.194	9.194	(0.904)	1473	0.25000	2.06(a)
	78	tert-Butylbenzene	119	9.838	9.838	(0.968)	957	0.25000	0.26(Ta)
	83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	903	0.25000	0.32(a)
	84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	1228	0.25000	0.29(a)
	88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	866	0.25000	0.31(a)
	92	Naphthalene	128	12.080	12.080	(1.188)	954	0.25000	2.11(a)
	141	Cyclohexane	56	4.819	4.819	(1.000)	4582	0.25000	2.74(a)
	135	1,4-Dioxane	88	6.176	6.176	(1.282)	178	5.00000	11.59(aM)
	136	n-Hexane	57	3.349	3.349	(0.695)	644	0.25000	1.13(Ta)
	149	Isopropyl alcohol	45	2.573	2.573	(0.534)	849	5.00000	15.95(T)
	164	Dicyclopentadiene	66	10.198	10.198	(1.003)	1186	0.25000	1.14(Ta)
	166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.007)	794	0.25000	1.07(a)
	150	Allyl alcohol	57	3.349	3.349	(0.695)	644	5.00000	22.78

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060502.D
Date : 05-JUN-2024 18:58
Client ID: VSTD00.25
Sample Info: VSTD00.25;VSTD00.25;1;1
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

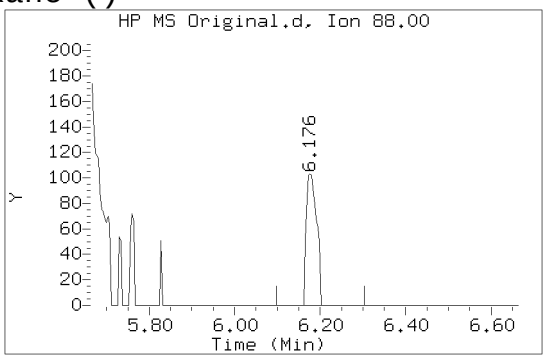
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Inj Date : 05-JUN-2024 18:58
InstruID : VOA9.i
LabSampID : VSTD00.25

1,4-Dioxane ()

Reason Code:

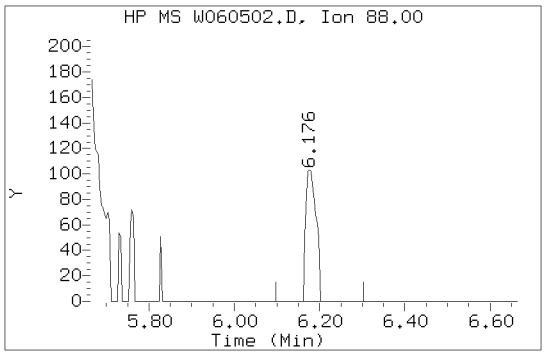
BEFORE

MASS
88
AREA
178
HEIGHT
103
21-Jun-2024
17:11
RUCHA
PATEL



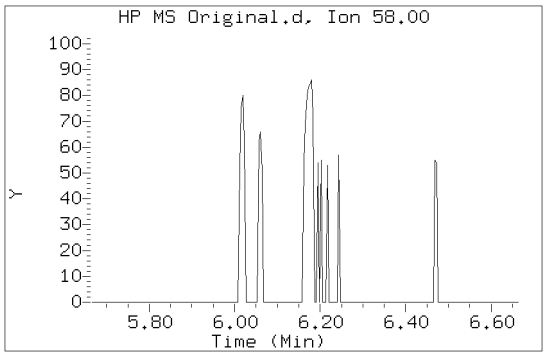
AFTER

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AREA
178
HEIGHT
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21-Jun-2024
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PATEL



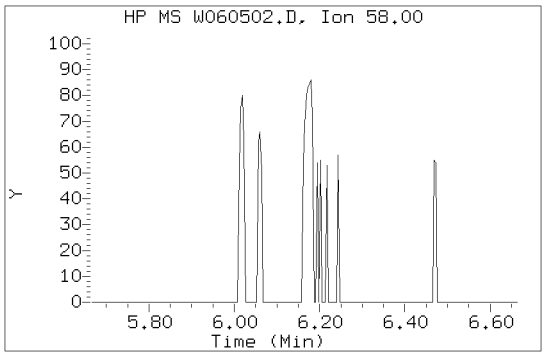
BEFORE

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21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
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AREA
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HEIGHT
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21-Jun-2024
17:11
RUCHA
PATEL



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060503.D Page 1
Report Date: 21-Jun-2024 17:11

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060503.D
Lab Smp Id: VSTD00.5 Client Smp ID: VSTD00.5
Inj Date : 05-JUN-2024 19:20
Operator : TS Inst ID: VOA9.i
Smp Info : VSTD00.5;VSTD00.5;1;2
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240605.b\8260C.m
Meth Date : 21-Jun-2024 17:11 VOA9.i Quant Type: ISTD
Cal Date : 05-JUN-2024 18:58 Cal File: W060502.D
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.815	4.815	(1.000)	202232	50.0000	
2	Dichlorodifluoromethane	85	1.164	1.164	(0.242)	284	0.50000	1.24(M)
4	Propionitrile	54	4.350	4.350	(0.903)	1894	5.00000	11.08(aM)
5	Vinyl Chloride	62	1.378	1.378	(0.286)	808	0.50000	0.58(M)
6	Bromomethane	94	1.617	1.617	(0.336)	1163	0.50000	1.33
7	Chloroethane	64	1.700	1.700	(0.353)	920	0.50000	0.74(M)
8	Trichlorofluoromethane	101	1.895	1.895	(0.394)	867	0.50000	0.48(a)
9	Acrolein	56	2.259	2.259	(0.469)	309	1.00000	0.48(aM)
10	Acetone	43	2.408	2.408	(0.500)	2389	1.00000	0.34(a)
11	1,1-Dichloroethene	96	2.326	2.326	(0.483)	670	0.50000	0.57(M)
12	Isobutyl Alcohol	43	5.287	5.287	(1.098)	2655	10.0000	12.34(a)
13	Acetonitrile	39	2.671	2.671	(0.555)	1332	5.00000	9.70(a)
14	Allyl Chloride	41	2.671	2.671	(0.555)	2988	0.50000	0.85(a)
15	Iodomethane	142	2.465	2.465	(0.512)	1019	1.00000	2.29(T)
16	Acrylonitrile	53	3.072	3.072	(0.638)	1178	1.00000	0.87
17	Methylene Chloride	84	2.795	2.795	(0.580)	2251	0.50000	0.26(a)
18	Methyl tert-butyl ether	73	3.083	3.083	(0.640)	3012	0.50000	0.82
19	Carbon Disulfide	76	2.517	2.517	(0.523)	4301	1.00000	1.29(M)
20	trans-1,2-Dichloroethene	96	3.061	3.061	(0.636)	879	0.50000	0.78
21	Vinyl Acetate	43	4.354	4.354	(0.904)	1568	1.00000	2.42(M)

22 1,1-Dichloroethane	63	3.514	3.514 (0.730)	1917	0.50000	0.47(Ta)
23 Chloroprene	53	3.612	3.612 (0.750)	1304	0.50000	0.63(a)

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060503.D Page 2
Report Date: 21-Jun-2024 17:11

			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
	24	2-Butanone	43	4.272	4.272	(0.887)	2623	1.00000	2.77(M)
	25	Methacrylonitrile	41	4.508	4.508	(0.936)	722	0.50000	2.25(aM)
	26	2,2-Dichloropropane	77	4.178	4.178	(0.868)	1084	0.50000	0.62(M)
	27	cis-1,2-Dichloroethene	96	4.200	4.200	(0.872)	1284	0.50000	1.02
	28	Chloroform	83	4.575	4.575	(0.950)	1646	0.50000	0.61
	29	Bromochloromethane	128	4.470	4.470	(0.928)	747	0.50000	0.51
$	30	Dibromofluoromethane	113	4.748	4.748	(0.986)	1435	0.50000	0.98
	31	1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	1076	0.50000	0.56
	32	1,1-Dichloropropene	75	4.920	4.920	(0.887)	1281	0.50000	0.66
	33	1,2-Dichloroethane	62	5.175	5.175	(0.932)	1732	0.50000	0.19(a)
	34	Carbon Tetrachloride	117	4.905	4.905	(0.884)	864	0.50000	0.54(M)
$	35	1,2-Dichloroethane-d4	65	5.100	5.100	(1.059)	1822	0.50000	1.02(T)
*	36	1,4-Difluorobenzene	114	5.550	5.550	(1.000)	298081	50.0000	
	37	Benzene	78	5.138	5.138	(0.926)	4327	0.50000	0.89
	38	Trichloroethene	130	5.786	5.786	(1.043)	843	0.50000	0.56(a)
	39	Bromodichloromethane	83	6.277	6.277	(1.131)	1181	0.50000	0.66(aM)
	41	2-Chloroethylvinyl ether	63	6.585	6.585	(1.186)	189	1.00000	6.49(M)
	42	1,2-Dichloropropane	63	6.003	6.003	(1.082)	1317	0.50000	0.76(aM)
	43	2-Nitropropane	43	6.510	6.510	(1.352)	123	0.50000	0.42(aM)
	44	Dibromomethane	93	6.120	6.120	(1.103)	694	0.50000	0.58(a)
	45	4-Methyl-2-Pentanone	43	6.854	6.854	(0.838)	2528	1.00000	4.16(a)
	46	cis-1,3-Dichloropropene	75	6.689	6.689	(1.205)	1067	0.50000	2.89(aM)
*	47	Chlorobenzene-d5	117	8.181	8.181	(1.000)	263992	50.0000	
$	48	Toluene-d8	98	6.922	6.922	(0.846)	5504	0.50000	1.03(a)
	49	Ethyl Methacrylate	69	7.289	7.289	(1.313)	1227	0.50000	0.63(a)
	50	Toluene	91	6.982	6.982	(0.853)	3702	0.50000	0.62(a)
	51	trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	715	0.50000	2.97(aM)
	52	2-Hexanone	43	7.222	7.222	(0.883)	2401	1.00000	0.76(Ta)
	53	1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	916	0.50000	0.61(a)
	54	1,3-Dichloropropane	76	7.499	7.499	(0.917)	1886	0.50000	0.73(a)
	55	Dibromochloromethane	129	7.690	7.690	(0.940)	603	0.50000	2.31(aM)
	56	Tetrachloroethene	164	7.454	7.454	(0.911)	587	0.50000	0.51(aM)
	57	1,2-Dibromoethane	107	7.784	7.784	(0.951)	908	0.50000	1.26(a)
	58	1-Chlorohexane	55	8.181	8.181	(1.474)	3325	0.50000	2.51(a)
	59	Chlorobenzene	112	8.208	8.208	(1.003)	2889	0.50000	0.65(a)
	60	1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	705	0.50000	0.55(a)
	61	Ethylbenzene	106	8.305	8.305	(1.015)	1156	0.50000	0.61(aM)
	62	m,p-Xylenes	106	8.406	8.406	(1.027)	2704	1.00000	1.15(a)
	63	o-Xylene	106	8.747	8.747	(1.069)	1216	0.50000	0.53(a)
	64	Styrene	104	8.762	8.762	(1.071)	1921	0.50000	0.52(a)
	66	Bromoform	173	8.912	8.912	(1.089)	366	0.50000	3.90(aM)
	67	Isopropylbenzene	105	9.059	9.059	(1.107)	2516	0.50000	0.46(a)
	68	1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	1446	0.50000	0.58(aM)
$	69	4-Bromofluorobenzene	95	9.194	9.194	(1.124)	2350	0.50000	1.22(a)
*	70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	128660	50.0000	
	71	1,2,3-Trichloropropane	75	9.362	9.362	(0.921)	1453	0.50000	2.07(aM)
	72	trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	294	0.50000	1.39(aM)
	73	n-Propylbenzene	91	9.411	9.411	(0.926)	3120	0.50000	0.53(a)
	74	Bromobenzene	156	9.317	9.317	(0.916)	1069	0.50000	1.02(a)
	75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	1931	0.50000	0.50(a)
	76	2-Chlorotoluene	91	9.482	9.482	(0.933)	2362	0.50000	0.62(a)
	77	4-Chlorotoluene	91	9.576	9.576	(0.942)	2708	0.50000	0.62(a)

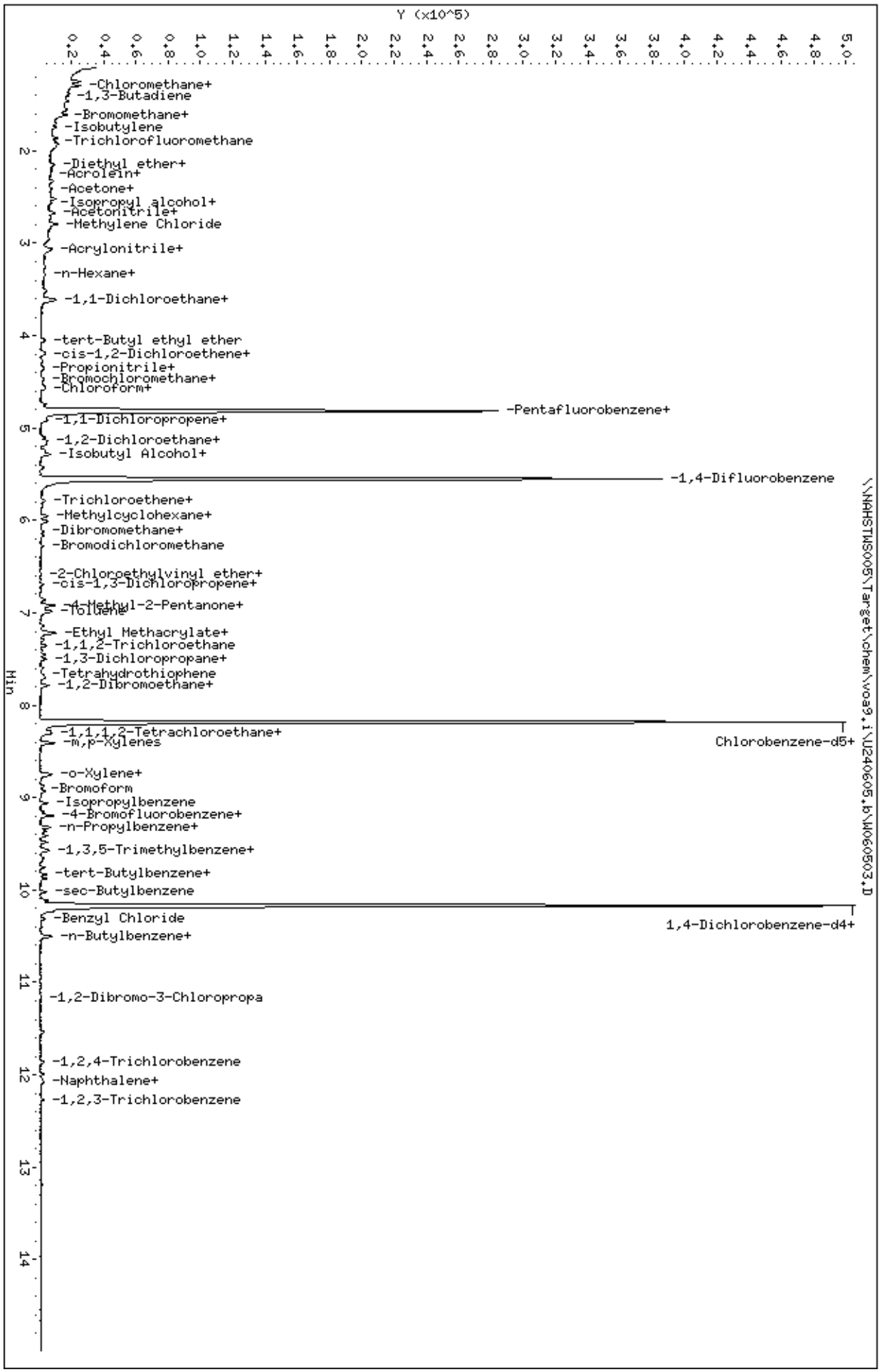
78 tert-Butylbenzene	119	9.835	9.835 (0.967)	1903	0.50000	0.54(a)
79 1,2,4-Trimethylbenzene	105	9.880	9.880 (0.972)	2234	0.50000	0.56(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	2156	0.50000	0.46(a)
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	1834	0.50000	0.46(a)
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.995)	1808	0.50000	0.66(a)
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	2283	0.50000	0.70(a)
86	Benzyl Chloride	91	10.311	10.311	(1.260)	1834	0.50000	2.40(aM)
87	n-Butylbenzene	91	10.494	10.494	(1.032)	2086	0.50000	2.22(a)
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	2011	0.50000	0.77(a)
89	1,2-Dibromo-3-Chloropropane	155	11.177	11.177	(1.099)	25	0.50000	1.60(aM)
90	1,2,4-Trichlorobenzene	180	11.863	11.863	(1.167)	1040	0.50000	2.34(aM)
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	391	0.50000	0.53(aM)
92	Naphthalene	128	12.073	12.073	(1.187)	1887	0.50000	2.33(a)
93	1,2,3-Trichlorobenzene	180	12.275	12.275	(1.207)	878	0.50000	0.59(aM)
146	Methyl acetate	43	2.716	2.716	(0.564)	1420	0.50000	(aM)
138	Freon TF	101	2.330	2.330	(0.484)	460	0.50000	0.46(aM)
141	Cyclohexane	56	4.811	4.811	(0.999)	4482	0.50000	2.70(a)
142	Tetrahydrofuran	42	4.549	4.549	(0.945)	1151	1.00000	3.49(aM)
147	Methylcyclohexane	55	5.951	5.951	(1.072)	2086	0.50000	0.60(a)
135	1,4-Dioxane	88	6.165	6.165	(1.280)	421	10.0000	28.04(M)
132	n-Butanol	56	5.835	5.835	(1.212)	614	10.0000	69.05(a)
136	n-Hexane	57	3.338	3.338	(0.693)	715	0.50000	1.19(Ta)
139	Diethyl ether	59	2.146	2.146	(0.446)	849	0.50000	0.77(a)
148	Tert-butyl alcohol	59	2.971	2.971	(0.617)	2487	10.0000	28.64
149	Isopropyl alcohol	45	2.570	2.570	(0.534)	1929	10.0000	26.76
156	Diisopropyl ether	45	3.616	3.616	(0.751)	4355	0.50000	1.18(aM)
162	Butyl acrylate	55	8.736	8.736	(1.068)	1576	0.50000	0.60(Ta)
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	4397	0.50000	1.66(a)
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	2858	0.50000	1.58(a)
167	Ethanol	45	2.086	2.086	(0.433)	312	10.0000	6.56(M)
172	tert-Butyl formate	59	5.246	5.246	(1.090)	1788	1.00000	2.02(aM)
151	4-Methyl-2-pentanol	45	7.218	7.218	(1.301)	5488	10.0000	67.70
140	1,3-Butadiene	54	1.404	1.404	(0.292)	546	0.50000	1.29(aM)
182	Epichlorohydrin	57	6.633	6.633	(1.195)	232	2.00000	4.26(aM)
M 94	1,2-Dichloroethylene (total)	96				2163	1.00000	(a)
130	Ethyl Acetate	43	4.549	4.549	(0.945)	776	0.50000	(TaM)
131	Methyl Acrylate	55	4.377	4.377	(0.909)	1181	0.50000	1.45(aM)
189	n-Butyl acetate	43	7.709	7.709	(0.942)	1029	0.50000	0.52(TaM)
134	Cyclohexanone	55	9.156	9.156	(0.900)	1015	10.0000	1.04(Ta)
188	Isopropyl acetate	43	5.287	5.287	(0.953)	3037	0.50000	1.02(aM)
150	Allyl alcohol	57	3.338	3.338	(0.693)	715	10.0000	23.93
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	271	0.50000	1.48(aM)
133	Ethyl Acrylate	55	5.951	5.951	(1.236)	2201	0.50000	0.64(aM)
203	2-Ethylhexyl Acrylate	55	12.046	12.046	(1.185)	699	0.50000	1.69(aM)
204	Tetrahydrothiophene	60	7.672	7.672	(0.938)	732	0.50000	0.58(aAM)
205	sec-Butyl Ether	57	7.218	7.218	(0.882)	2215	0.50000	0.68(aAM)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount

exceeded maximum amount.
M - Compound response manually integrated.



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Client ID: VSTD00.5
Sample Info: VSTD00.5;VSTD00.5;1;2
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

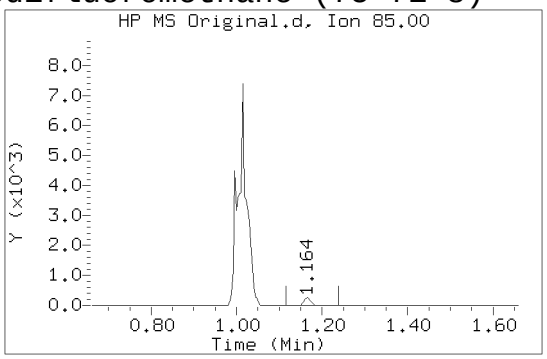
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InstruID : VOA9.i
LabSampID : VSTD00.5

Dichlorodifluoromethane (75-71-8)

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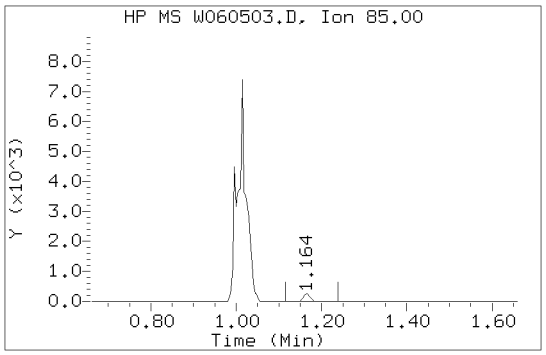
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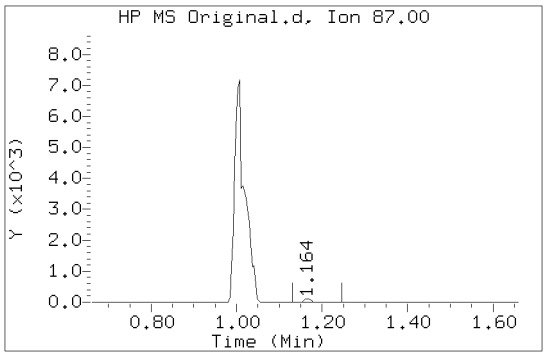
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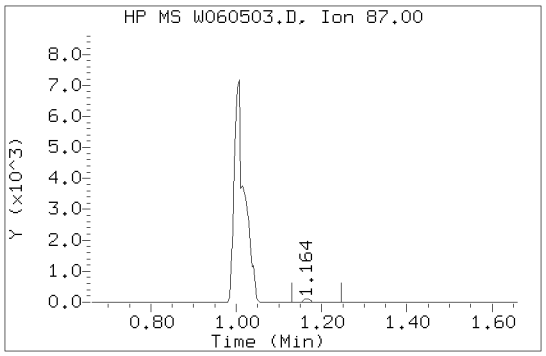
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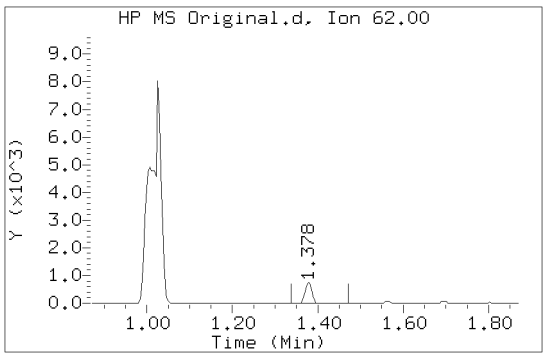


Vinyl Chloride (75-01-4)

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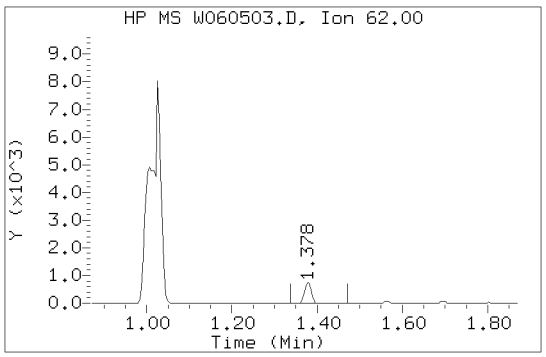
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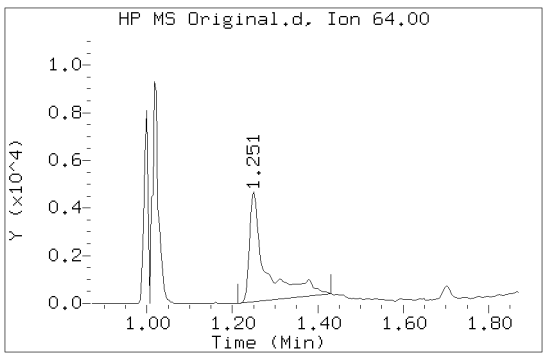
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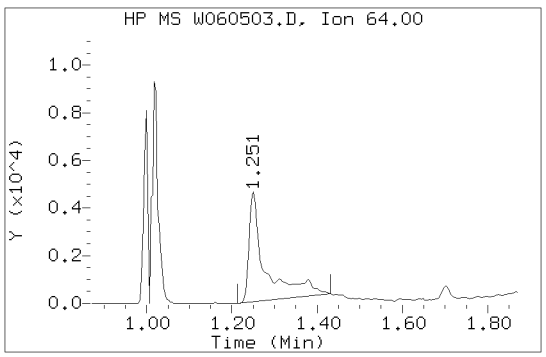
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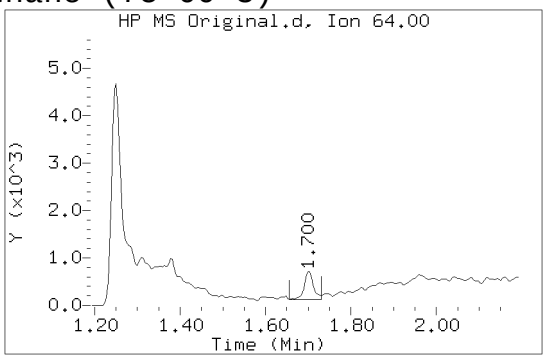
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LabSampID : VSTD00.5

Chloroethane (75-00-3)

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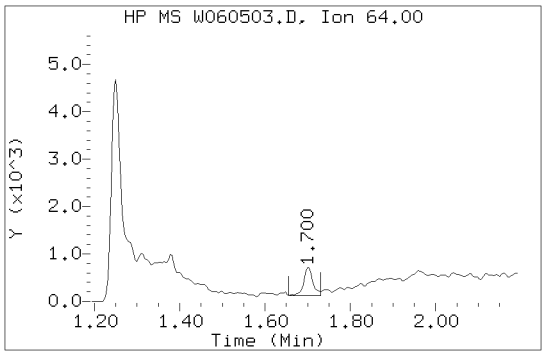
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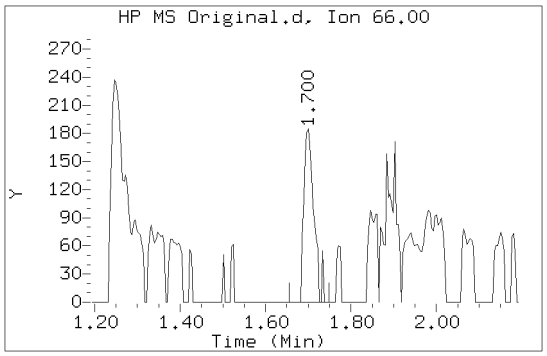
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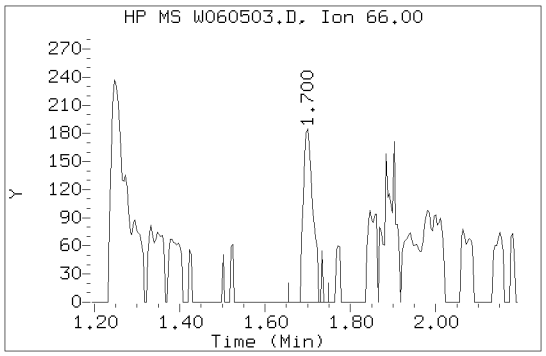
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AFTER

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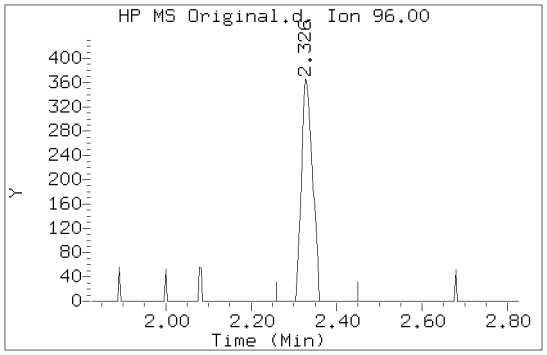


1,1-Dichloroethene (75-35-4)

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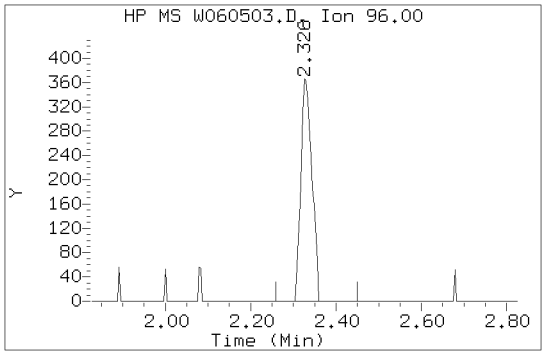
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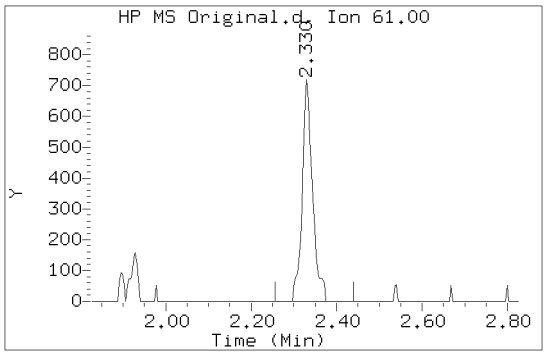
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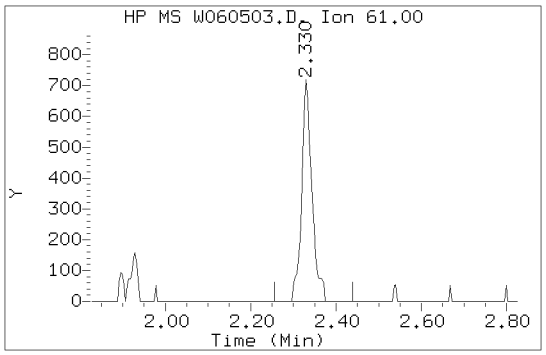
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AFTER

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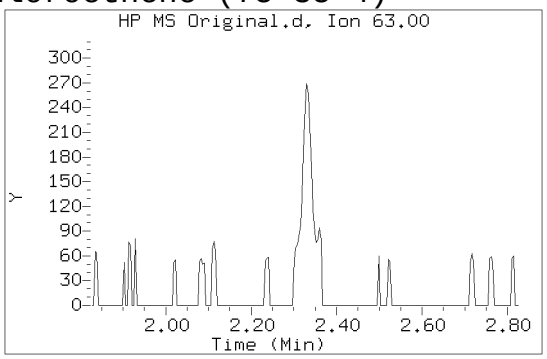
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InstruID : VOA9.i
LabSampID : VSTD00.5

1,1-Dichloroethene (75-35-4)

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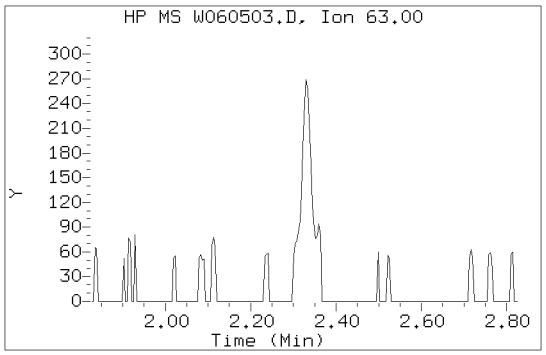
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AFTER

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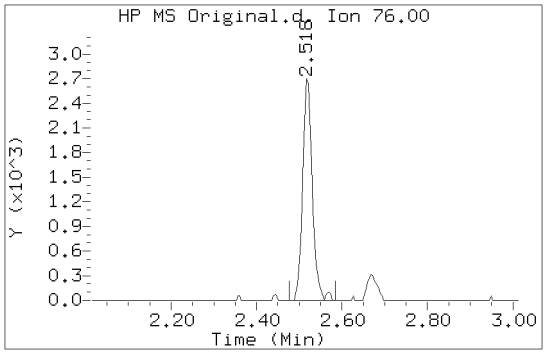


Carbon Disulfide (75-15-0)

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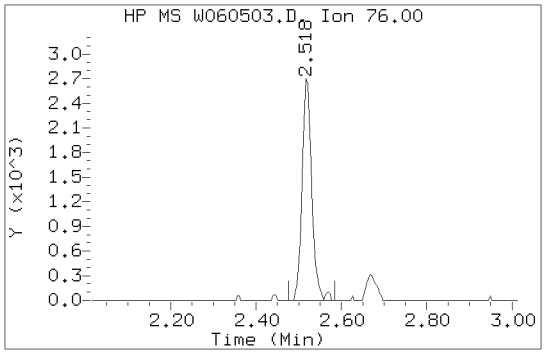
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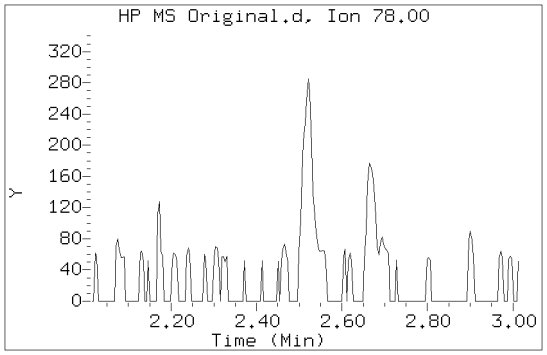
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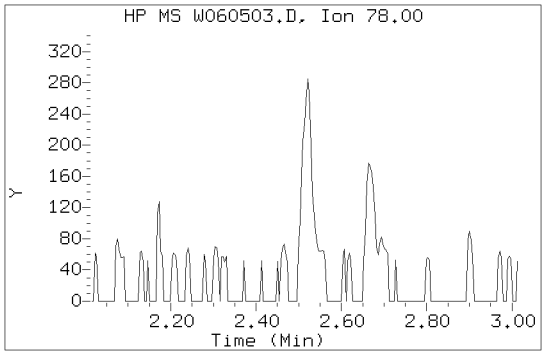
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AFTER

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HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

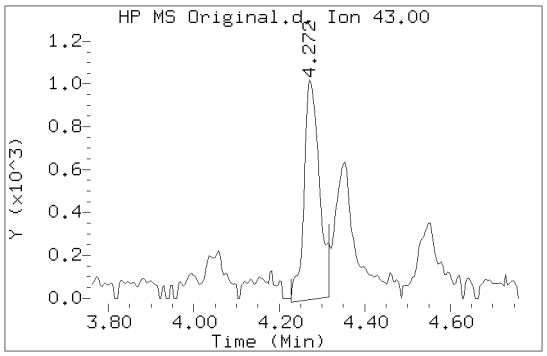


2-Butanone (78-93-3)

Reason Code:

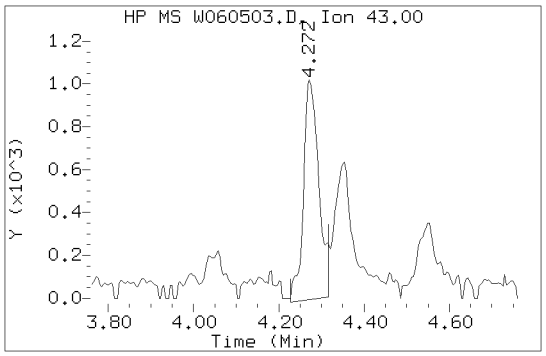
BEFORE

MASS
43
AREA
2623
HEIGHT
1026
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
43
AREA
2623
HEIGHT
1026
21-Jun-2024
17:11
RUCHA
PATEL



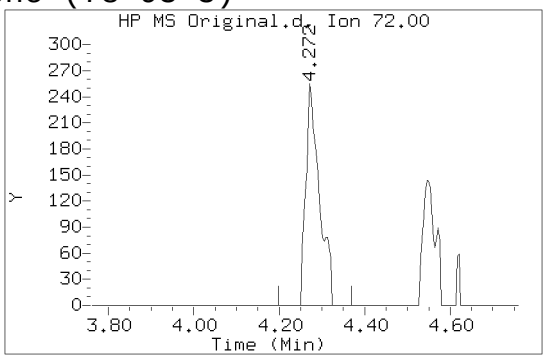
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060503.D
Inj Date : 05-JUN-2024 19:20
InstruID : VOA9.i
LabSampID : VSTD00.5

2-Butanone (78-93-3)

Reason Code:

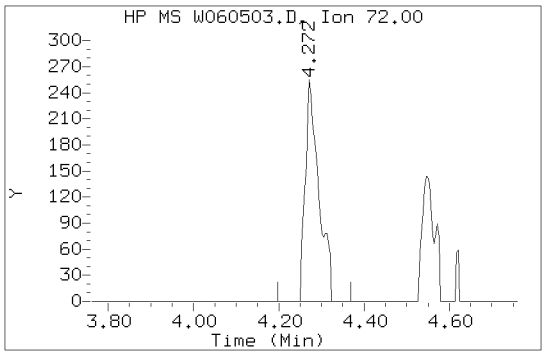
BEFORE

MASS
72
AREA
569
HEIGHT
255
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
72
AREA
569
HEIGHT
255
21-Jun-2024
17:11
RUCHA
PATEL

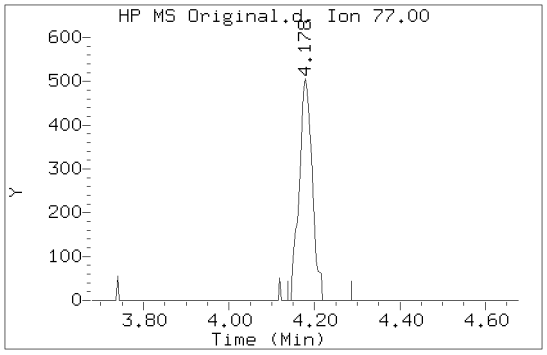


2,2-Dichloropropane (594-20-7)

Reason Code:

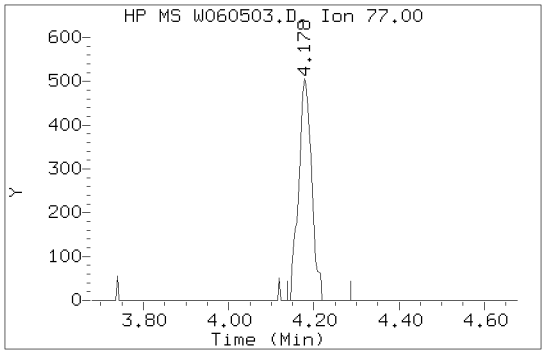
BEFORE

MASS
77
AREA
1084
HEIGHT
506
21-Jun-2024
17:11
RUCHA
PATEL



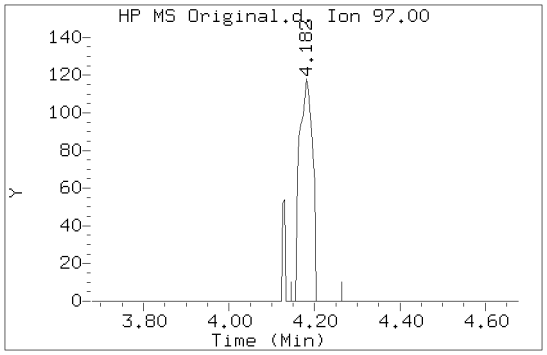
AFTER

MASS
77
AREA
1084
HEIGHT
506
21-Jun-2024
17:11
RUCHA
PATEL



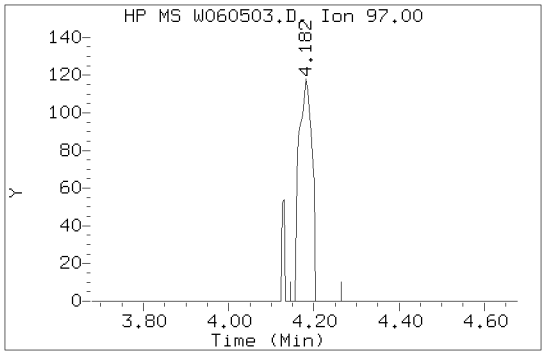
BEFORE

MASS
97
AREA
251
HEIGHT
118
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
97
AREA
251
HEIGHT
118
21-Jun-2024
17:11
RUCHA
PATEL

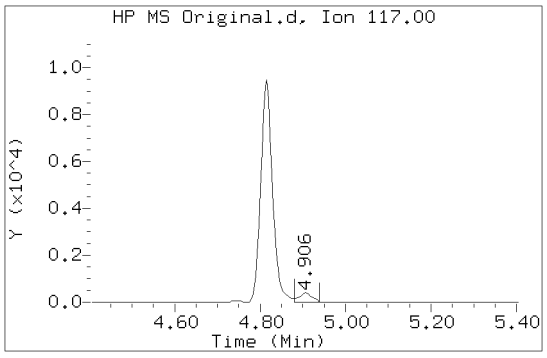


Carbon Tetrachloride (56-23-5)

Reason Code:

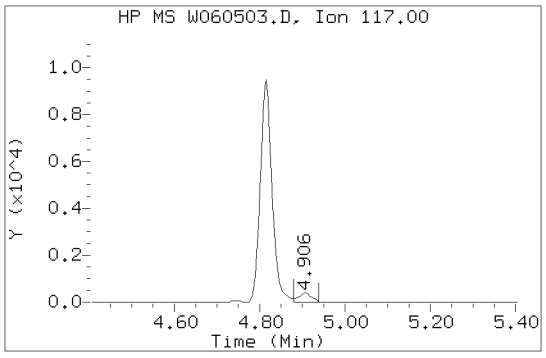
BEFORE

MASS
117
AREA
864
HEIGHT
396
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
117
AREA
864
HEIGHT
396
21-Jun-2024
17:11
RUCHA
PATEL



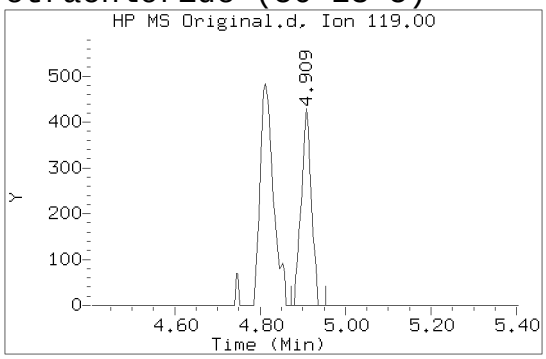
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060503.D
Inj Date : 05-JUN-2024 19:20
InstruID : VOA9.i
LabSampID : VSTD00.5

Carbon Tetrachloride (56-23-5)

Reason Code:

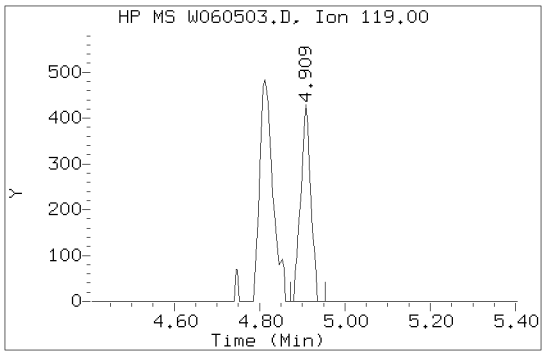
BEFORE

MASS
119
AREA
712
HEIGHT
429
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
119
AREA
712
HEIGHT
429
21-Jun-2024
17:11
RUCHA
PATEL

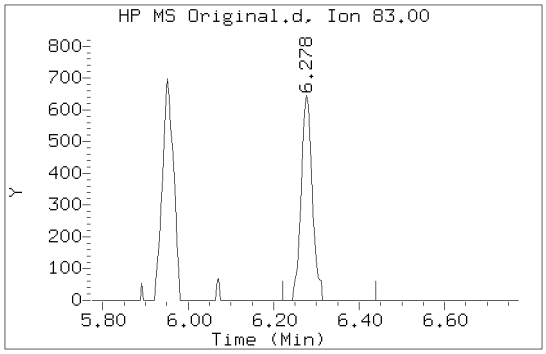


Bromodichloromethane (75-27-4)

Reason Code:

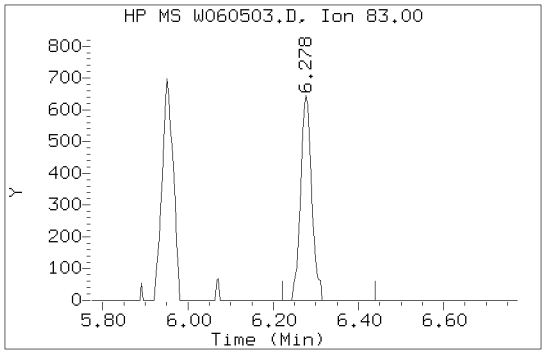
BEFORE

MASS
83
AREA
1181
HEIGHT
646
21-Jun-2024
17:11
RUCHA
PATEL



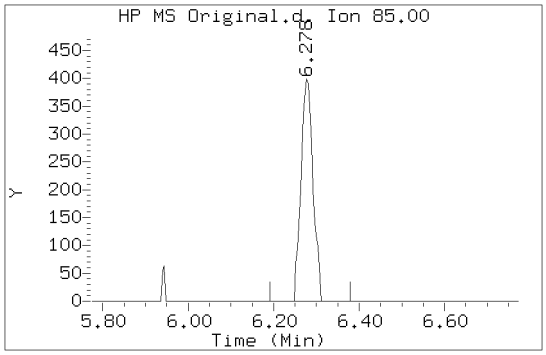
AFTER

MASS
83
AREA
1181
HEIGHT
646
21-Jun-2024
17:11
RUCHA
PATEL



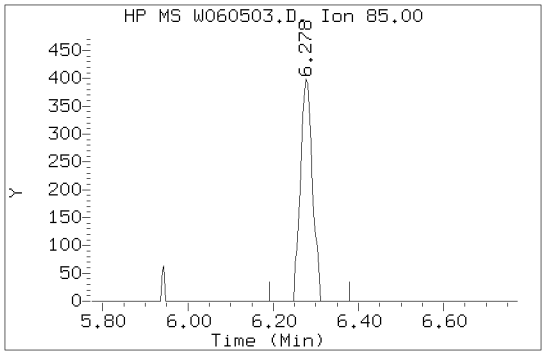
BEFORE

MASS
85
AREA
791
HEIGHT
399
21-Jun-2024
17:11
RUCHA
PATEL



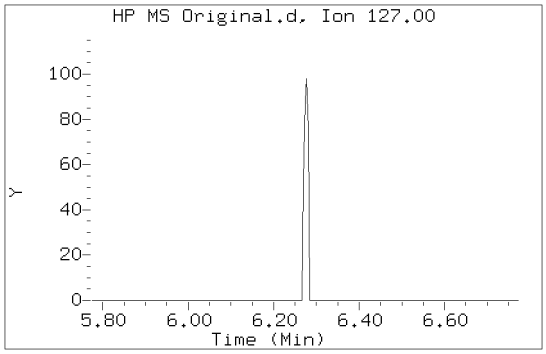
AFTER

MASS
85
AREA
791
HEIGHT
399
21-Jun-2024
17:11
RUCHA
PATEL



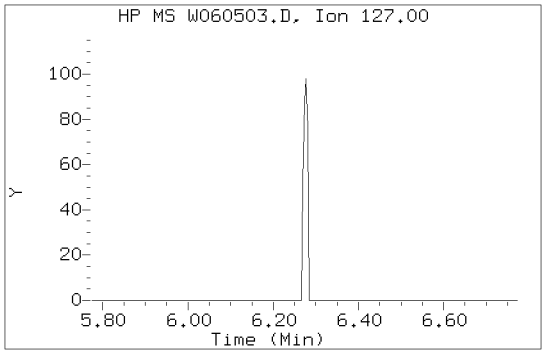
BEFORE

MASS
127
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
127
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



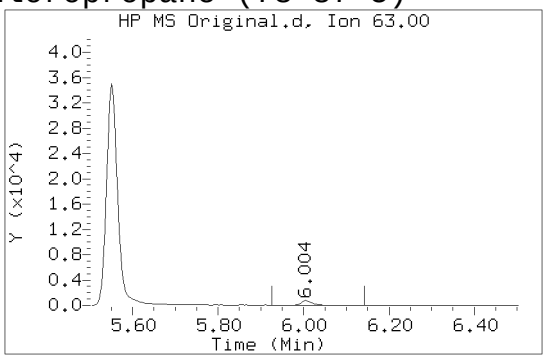
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060503.D
Inj Date : 05-JUN-2024 19:20
InstruID : VOA9.i
LabSampID : VSTD00.5

1,2-Dichloropropane (78-87-5)

Reason Code:

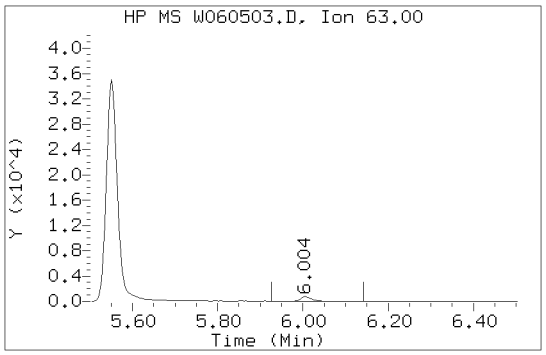
BEFORE

MASS
63
AREA
1317
HEIGHT
761
21-Jun-2024
17:11
RUCHA
PATEL



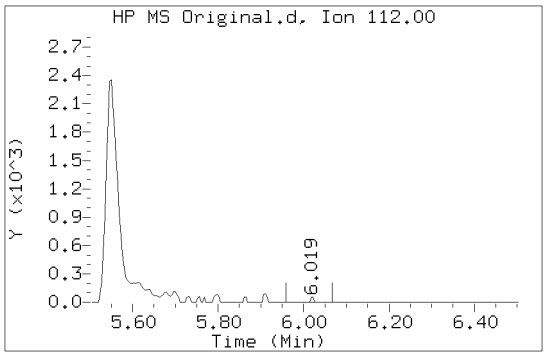
AFTER

MASS
63
AREA
1317
HEIGHT
761
21-Jun-2024
17:11
RUCHA
PATEL



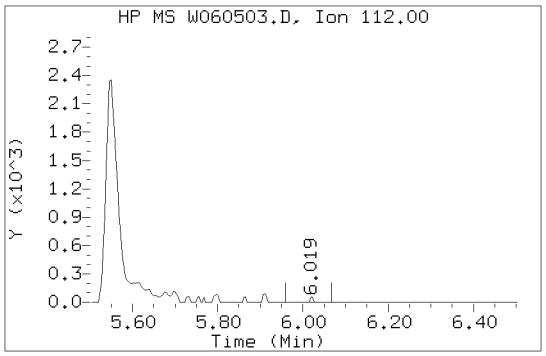
BEFORE

MASS
112
AREA
24
HEIGHT
55
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
112
AREA
24
HEIGHT
55
21-Jun-2024
17:11
RUCHA
PATEL

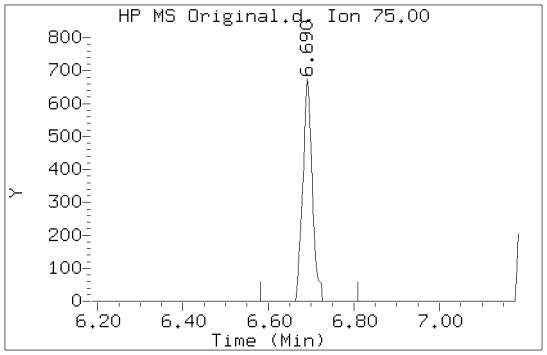


cis-1,3-Dichloropropene (10061-01-5)

Reason Code:

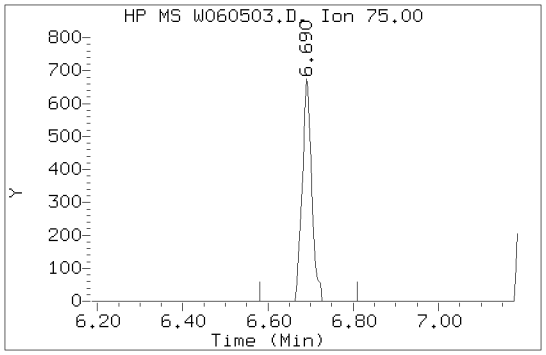
BEFORE

MASS
75
AREA
1067
HEIGHT
675
21-Jun-2024
17:11
RUCHA
PATEL



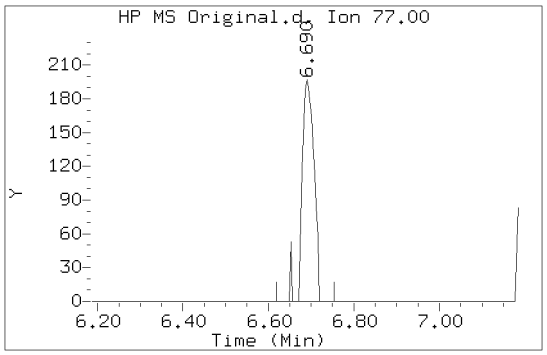
AFTER

MASS
75
AREA
1067
HEIGHT
675
21-Jun-2024
17:11
RUCHA
PATEL



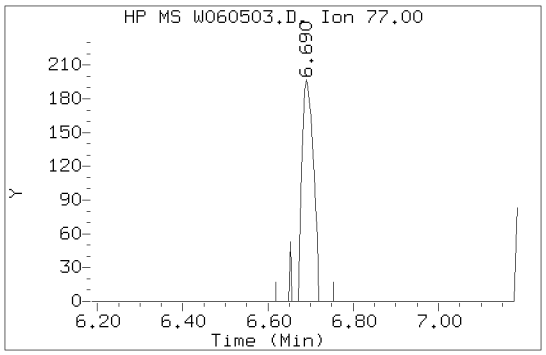
BEFORE

MASS
77
AREA
385
HEIGHT
197
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
77
AREA
385
HEIGHT
197
21-Jun-2024
17:11
RUCHA
PATEL



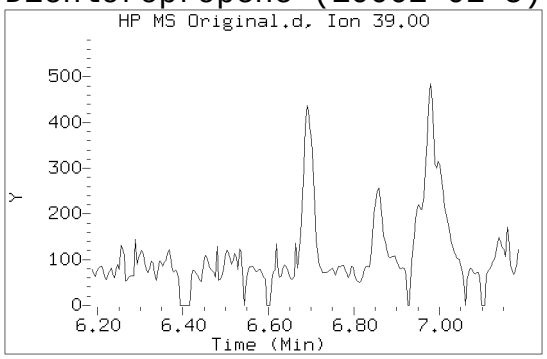
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060503.D
Inj Date : 05-JUN-2024 19:20
InstruID : VOA9.i
LabSampID : VSTD00.5

cis-1,3-Dichloropropene (10061-01-5)

Reason Code:

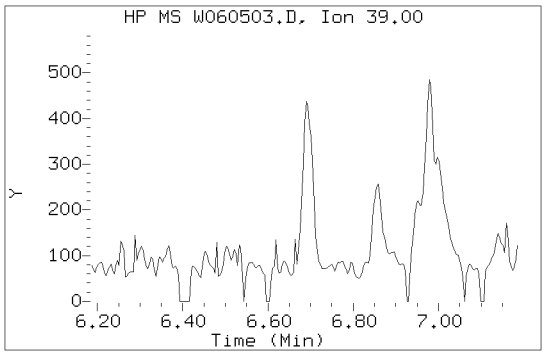
BEFORE

MASS
39
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
39
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

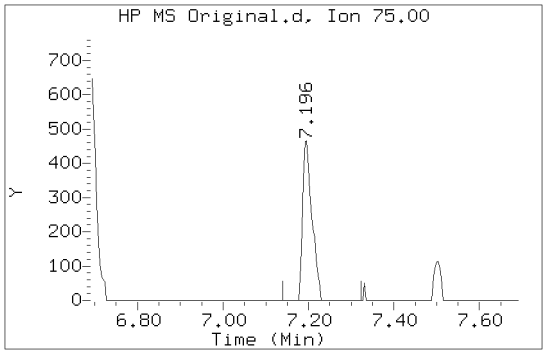


trans-1,3-Dichloropropene (10061-02-6)

Reason Code:

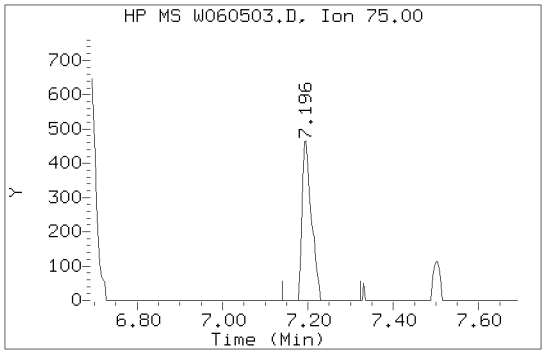
BEFORE

MASS
75
AREA
715
HEIGHT
465
21-Jun-2024
17:11
RUCHA
PATEL



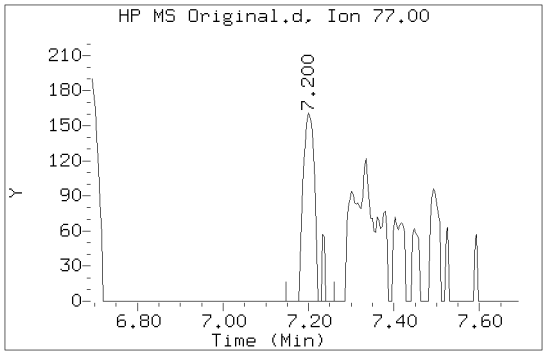
AFTER

MASS
75
AREA
715
HEIGHT
465
21-Jun-2024
17:11
RUCHA
PATEL



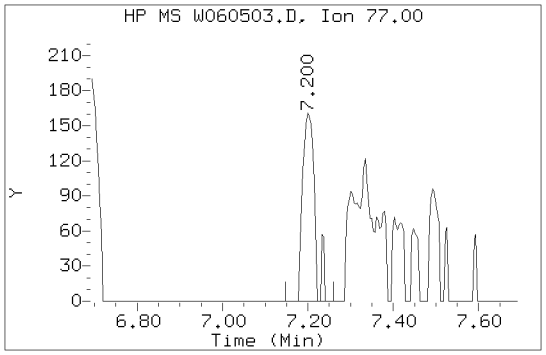
BEFORE

MASS
77
AREA
318
HEIGHT
161
21-Jun-2024
17:11
RUCHA
PATEL



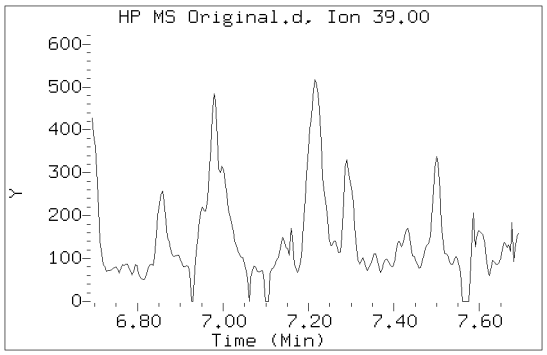
AFTER

MASS
77
AREA
318
HEIGHT
161
21-Jun-2024
17:11
RUCHA
PATEL



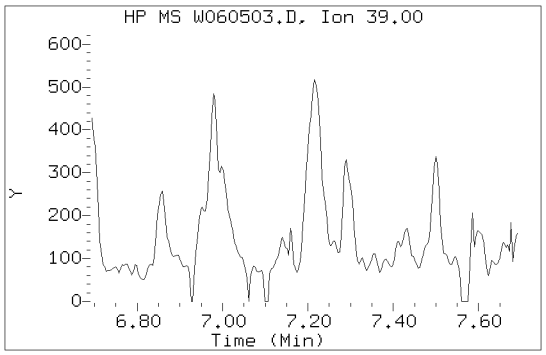
BEFORE

MASS
39
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
39
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



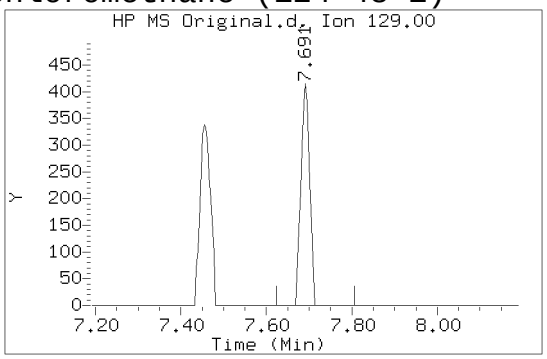
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060503.D
Inj Date : 05-JUN-2024 19:20
InstruID : VOA9.i
LabSampID : VSTD00.5

Dibromochloromethane (124-48-1)

Reason Code:

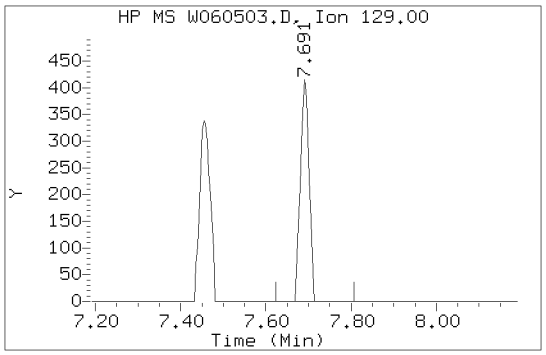
BEFORE

MASS
129
AREA
603
HEIGHT
415
21-Jun-2024
17:11
RUCHA
PATEL



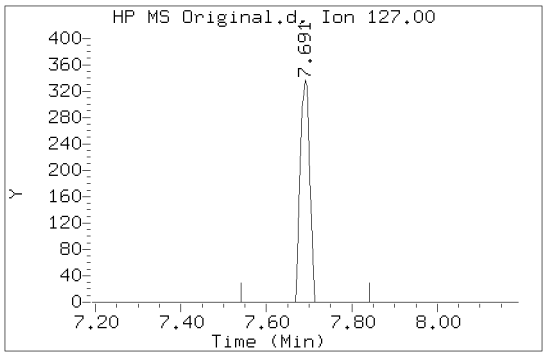
AFTER

MASS
129
AREA
603
HEIGHT
415
21-Jun-2024
17:11
RUCHA
PATEL



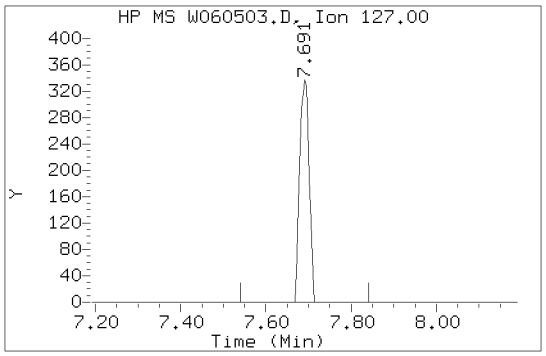
BEFORE

MASS
127
AREA
532
HEIGHT
337
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
127
AREA
532
HEIGHT
337
21-Jun-2024
17:11
RUCHA
PATEL

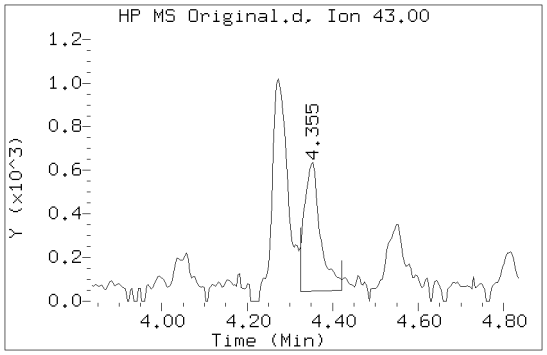


Vinyl Acetate (108-05-4)

Reason Code:

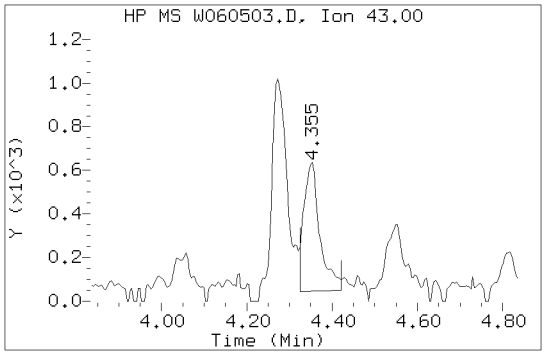
BEFORE

MASS
43
AREA
1568
HEIGHT
588
21-Jun-2024
17:11
RUCHA
PATEL



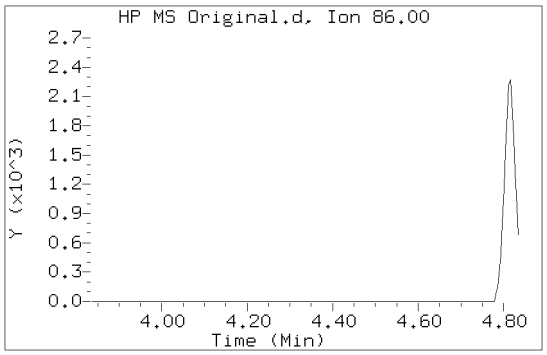
AFTER

MASS
43
AREA
1568
HEIGHT
588
21-Jun-2024
17:11
RUCHA
PATEL



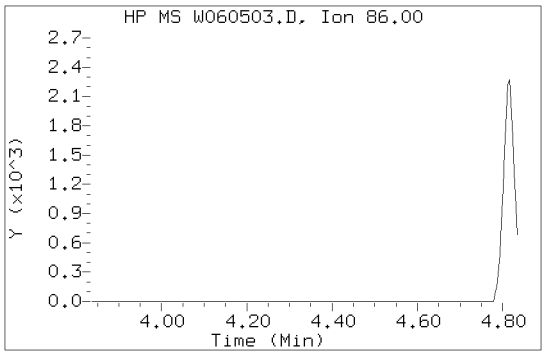
BEFORE

MASS
86
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
86
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



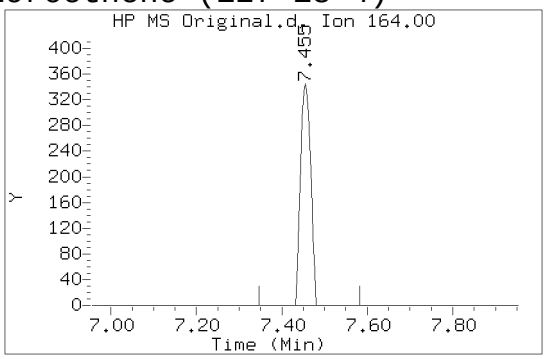
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060503.D
Inj Date : 05-JUN-2024 19:20
InstruID : VOA9.i
LabSampID : VSTD00.5

Tetrachloroethene (127-18-4)

Reason Code:

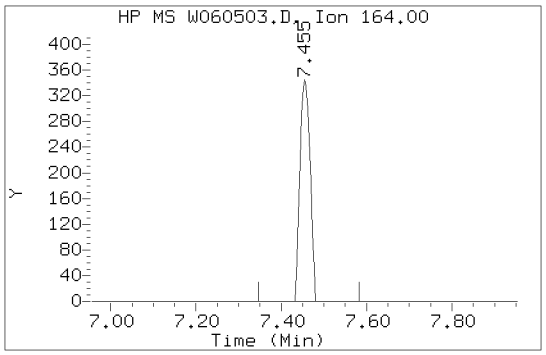
BEFORE

MASS
164
AREA
587
HEIGHT
345
21-Jun-2024
17:11
RUCHA
PATEL



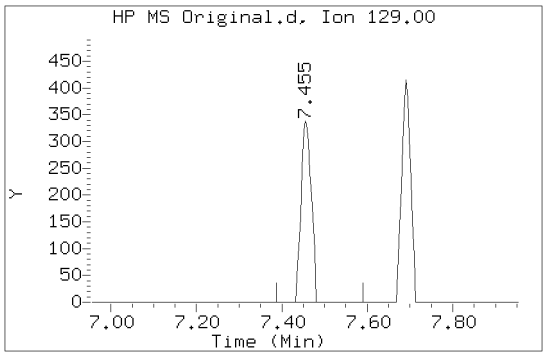
AFTER

MASS
164
AREA
587
HEIGHT
345
21-Jun-2024
17:11
RUCHA
PATEL



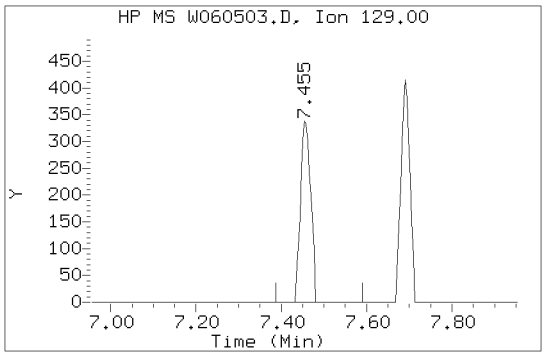
BEFORE

MASS
129
AREA
578
HEIGHT
338
21-Jun-2024
17:11
RUCHA
PATEL



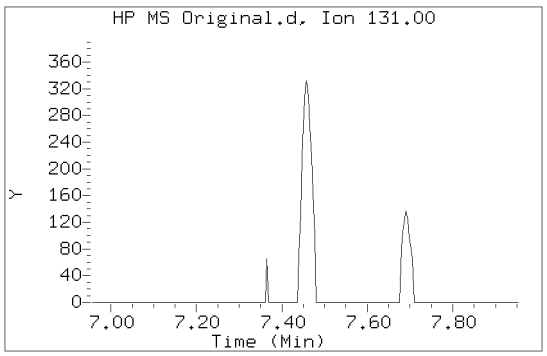
AFTER

MASS
129
AREA
578
HEIGHT
338
21-Jun-2024
17:11
RUCHA
PATEL



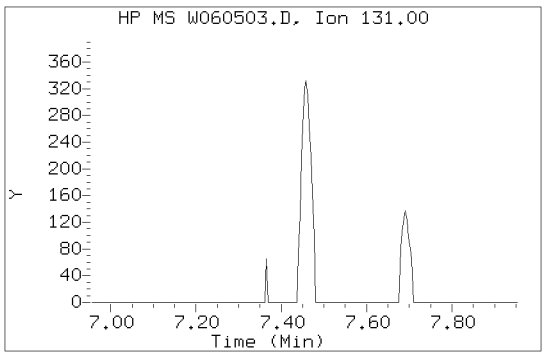
BEFORE

MASS
131
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
131
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

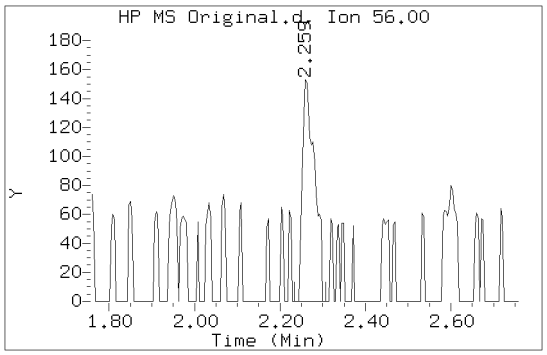


Acrolein (107-02-8)

Reason Code:

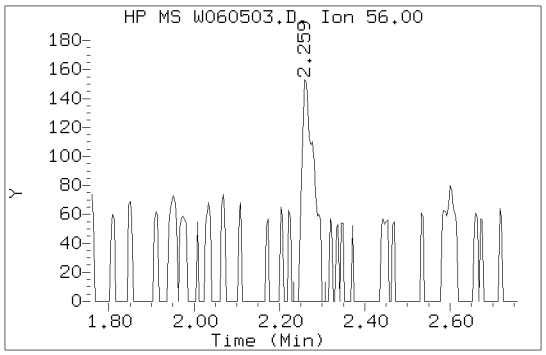
BEFORE

MASS
56
AREA
309
HEIGHT
153
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
56
AREA
309
HEIGHT
153
21-Jun-2024
17:11
RUCHA
PATEL



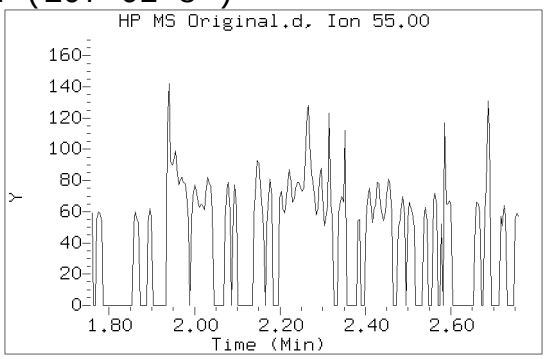
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060503.D
Inj Date : 05-JUN-2024 19:20
InstruID : VOA9.i
LabSampID : VSTD00.5

Acrolein (107-02-8)

Reason Code:

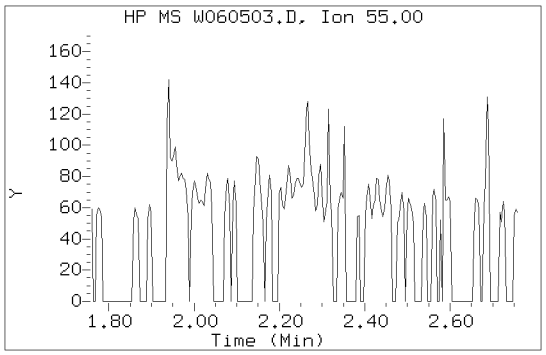
BEFORE

MASS
55
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
55
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

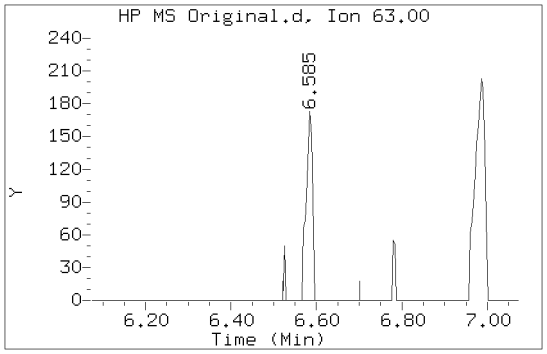


2-Chloroethylvinyl ether (110-75-8)

Reason Code:

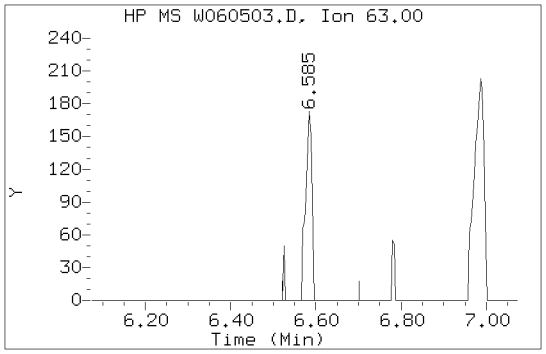
BEFORE

MASS
63
AREA
189
HEIGHT
173
21-Jun-2024
17:11
RUCHA
PATEL



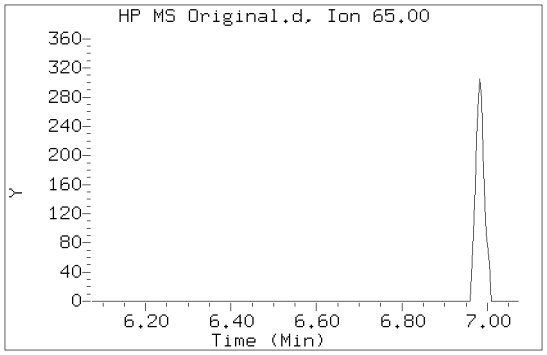
AFTER

MASS
63
AREA
189
HEIGHT
173
21-Jun-2024
17:11
RUCHA
PATEL



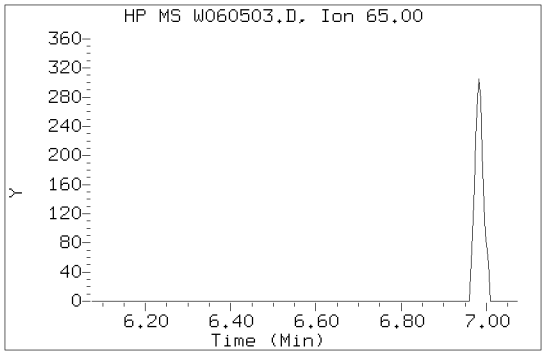
BEFORE

MASS
65
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



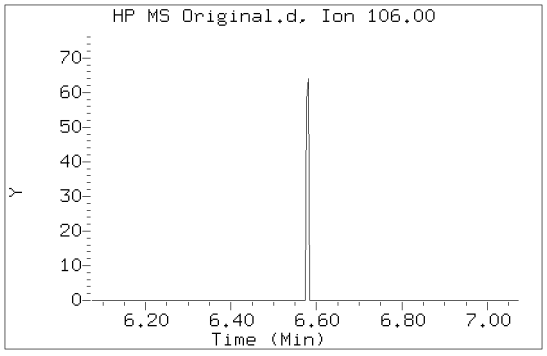
AFTER

MASS
65
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



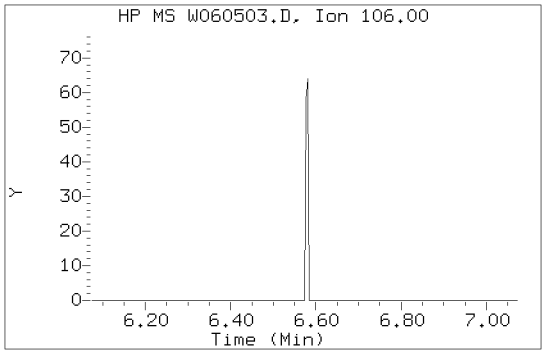
BEFORE

MASS
106
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
106
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



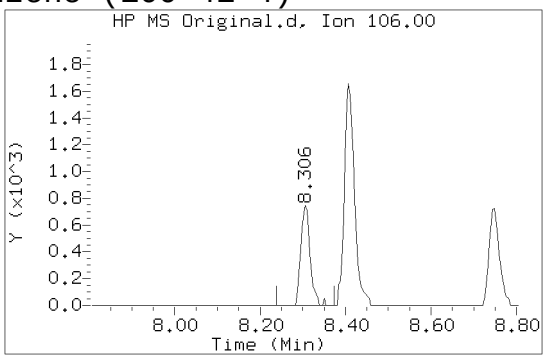
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060503.D
Inj Date : 05-JUN-2024 19:20
InstruID : VOA9.i
LabSampID : VSTD00.5

Ethylbenzene (100-41-4)

Reason Code:

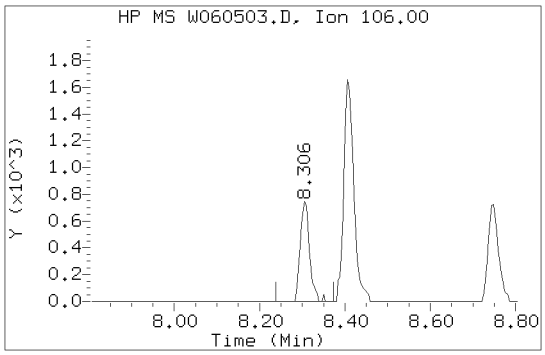
BEFORE

MASS
106
AREA
1156
HEIGHT
748
21-Jun-2024
17:11
RUCHA
PATEL



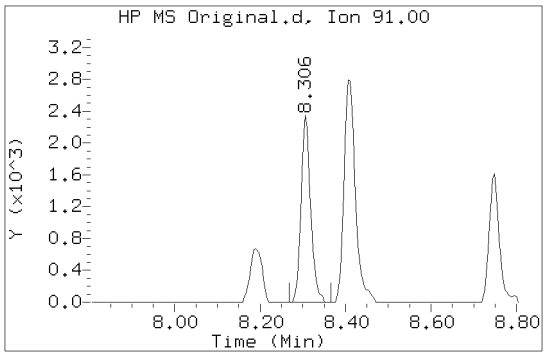
AFTER

MASS
106
AREA
1156
HEIGHT
748
21-Jun-2024
17:11
RUCHA
PATEL



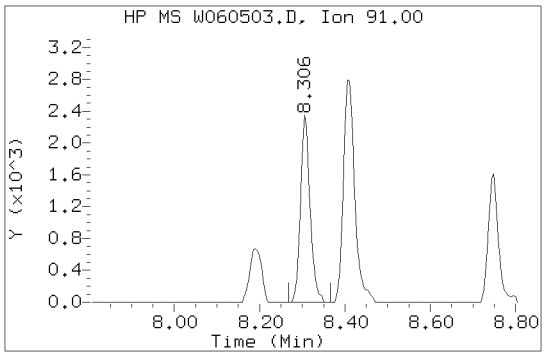
BEFORE

MASS
91
AREA
3720
HEIGHT
2354
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
91
AREA
3720
HEIGHT
2354
21-Jun-2024
17:11
RUCHA
PATEL

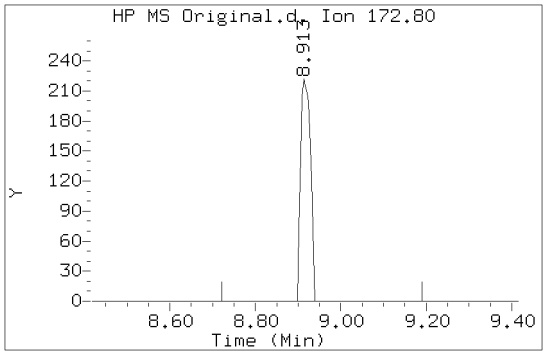


Bromoform (75-25-2)

Reason Code:

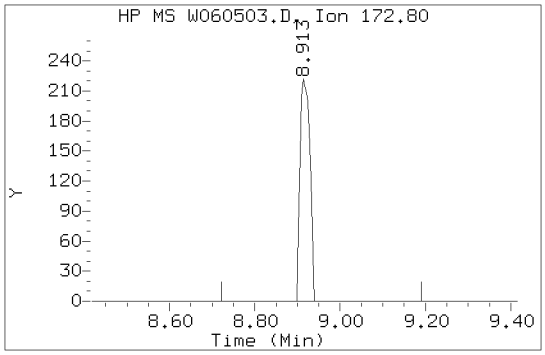
BEFORE

MASS
172.8
AREA
366
HEIGHT
222
21-Jun-2024
17:11
RUCHA
PATEL



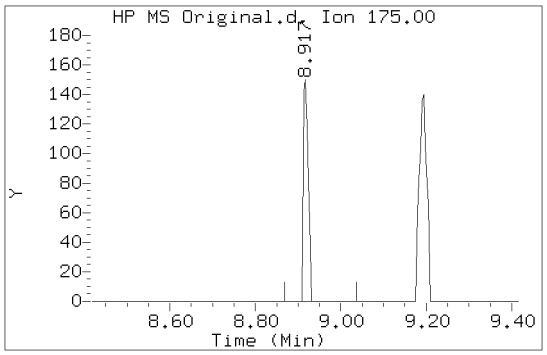
AFTER

MASS
172.8
AREA
366
HEIGHT
222
21-Jun-2024
17:11
RUCHA
PATEL



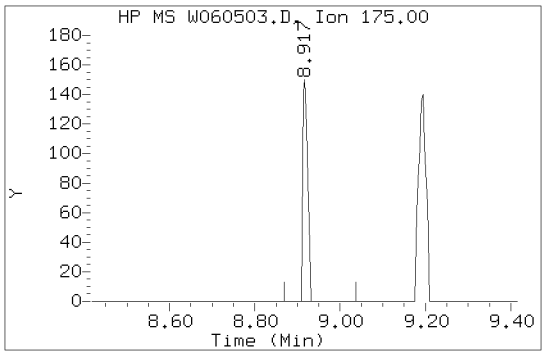
BEFORE

MASS
175
AREA
122
HEIGHT
150
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
175
AREA
122
HEIGHT
150
21-Jun-2024
17:11
RUCHA
PATEL



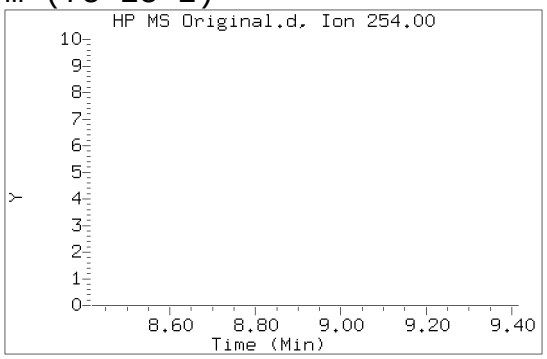
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060503.D
Inj Date : 05-JUN-2024 19:20
InstruID : VOA9.i
LabSampID : VSTD00.5

Bromoform (75-25-2)

Reason Code:

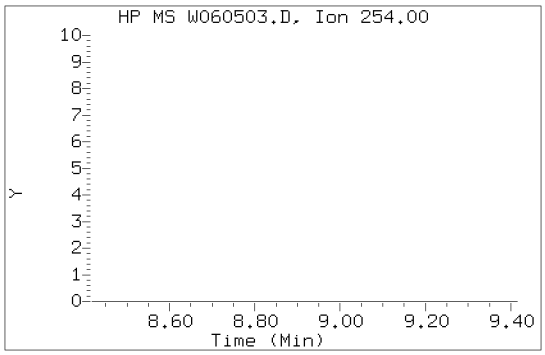
BEFORE

MASS
254
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
254
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

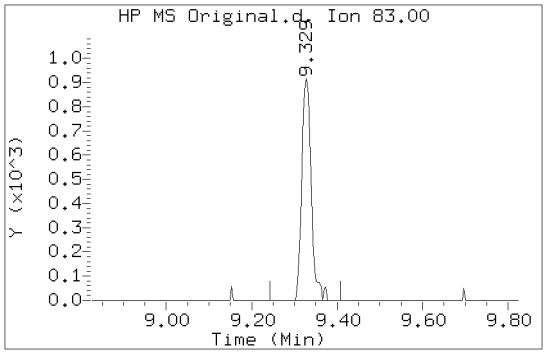


1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

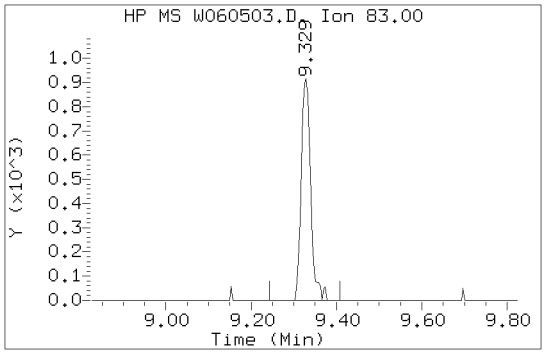
BEFORE

MASS
83
AREA
1446
HEIGHT
916
21-Jun-2024
17:11
RUCHA
PATEL



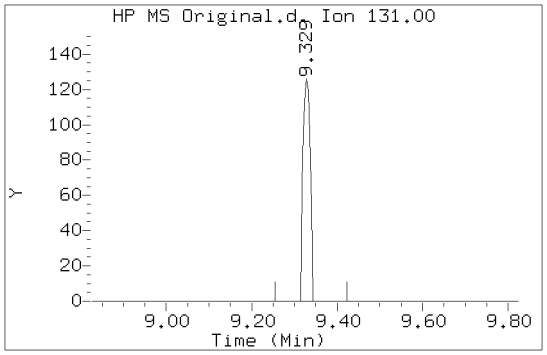
AFTER

MASS
83
AREA
1446
HEIGHT
916
21-Jun-2024
17:11
RUCHA
PATEL



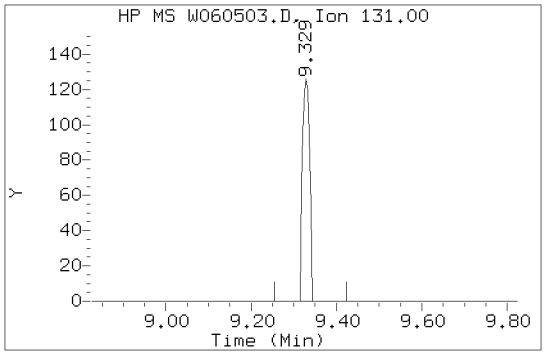
BEFORE

MASS
131
AREA
151
HEIGHT
126
21-Jun-2024
17:11
RUCHA
PATEL



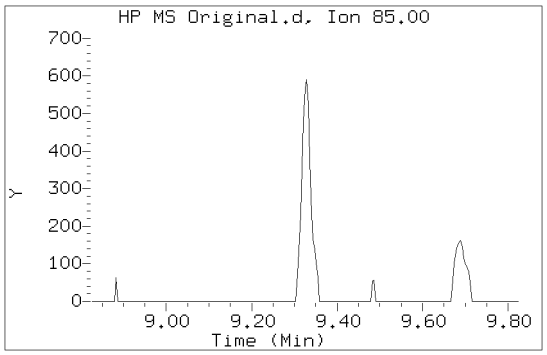
AFTER

MASS
131
AREA
151
HEIGHT
126
21-Jun-2024
17:11
RUCHA
PATEL



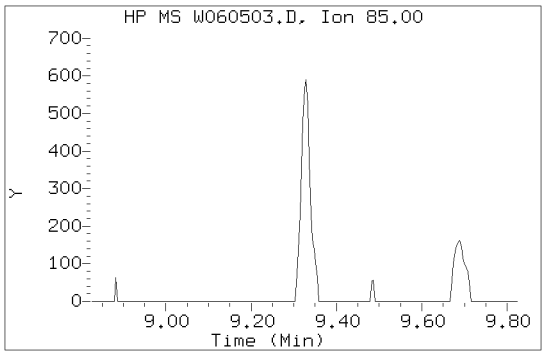
BEFORE

MASS
85
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
85
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



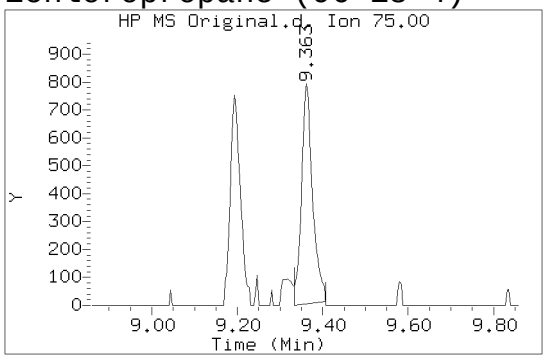
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060503.D
Inj Date : 05-JUN-2024 19:20
InstruID : VOA9.i
LabSampID : VSTD00.5

1,2,3-Trichloropropane (96-18-4)

Reason Code:

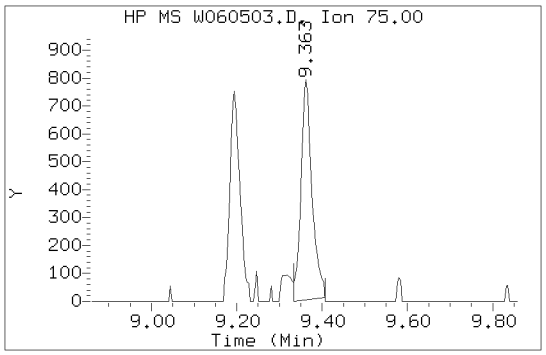
BEFORE

MASS
75
AREA
1453
HEIGHT
788
21-Jun-2024
17:11
RUCHA
PATEL



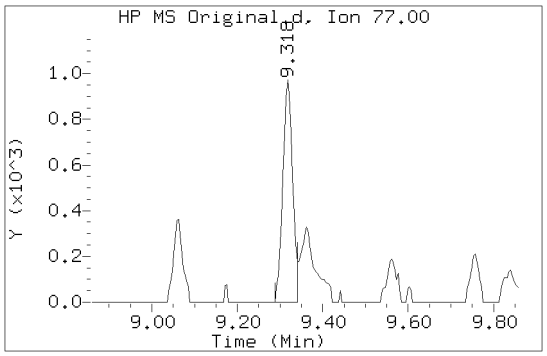
AFTER

MASS
75
AREA
1453
HEIGHT
788
21-Jun-2024
17:11
RUCHA
PATEL



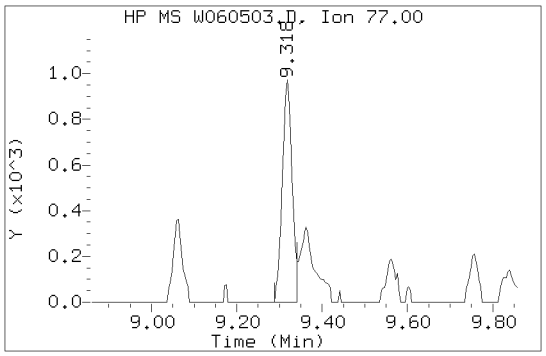
BEFORE

MASS
77
AREA
1552
HEIGHT
972
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
77
AREA
1552
HEIGHT
972
21-Jun-2024
17:11
RUCHA
PATEL

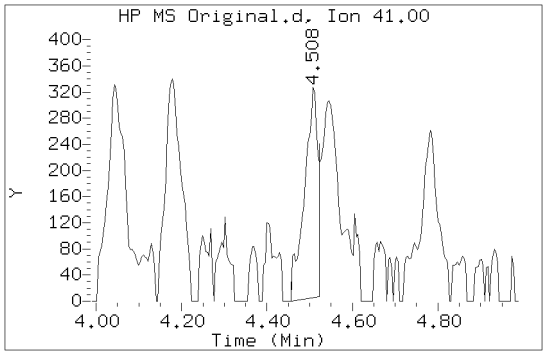


Methacrylonitrile (126-98-7)

Reason Code:

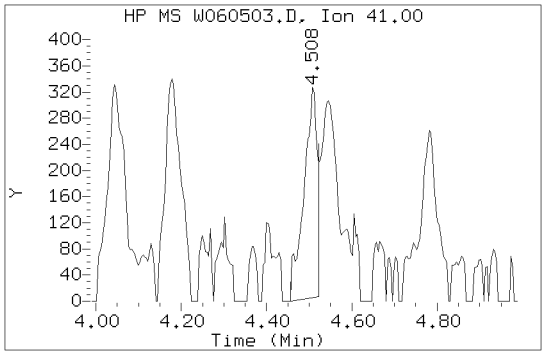
BEFORE

MASS
41
AREA
722
HEIGHT
321
21-Jun-2024
17:11
RUCHA
PATEL



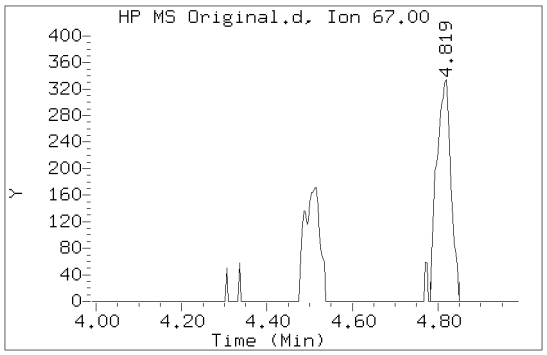
AFTER

MASS
41
AREA
722
HEIGHT
321
21-Jun-2024
17:11
RUCHA
PATEL



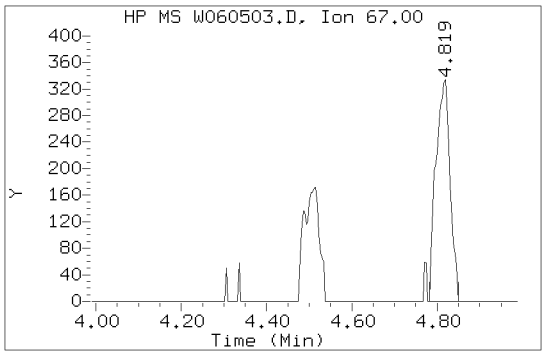
BEFORE

MASS
67
AREA
769
HEIGHT
334
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
67
AREA
769
HEIGHT
334
21-Jun-2024
17:11
RUCHA
PATEL



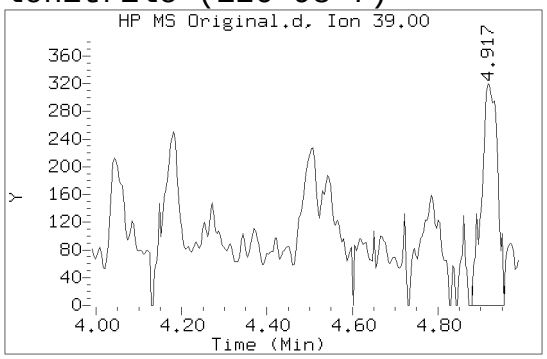
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Inj Date : 05-JUN-2024 19:20
InstruID : VOA9.i
LabSampID : VSTD00.5

Methacrylonitrile (126-98-7)

Reason Code:

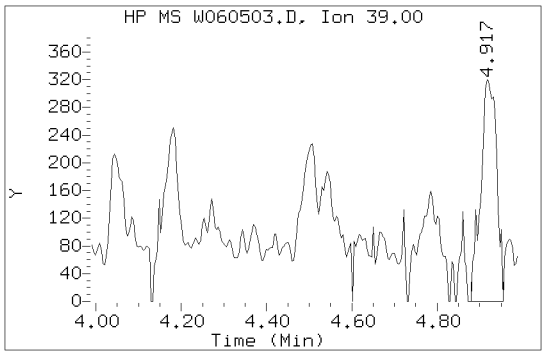
BEFORE

MASS
39
AREA
828
HEIGHT
320
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
39
AREA
828
HEIGHT
320
21-Jun-2024
17:11
RUCHA
PATEL

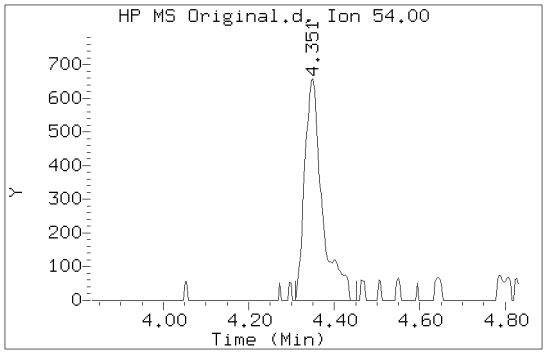


Propionitrile (107-12-0)

Reason Code:

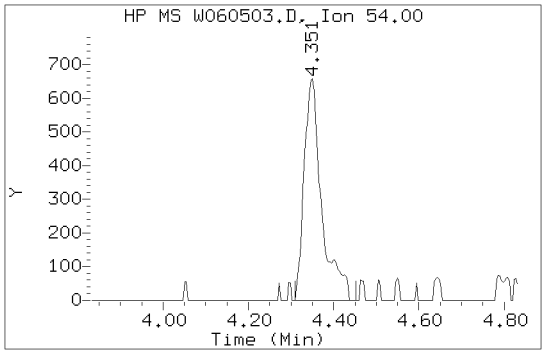
BEFORE

MASS
54
AREA
1894
HEIGHT
658
21-Jun-2024
17:11
RUCHA
PATEL



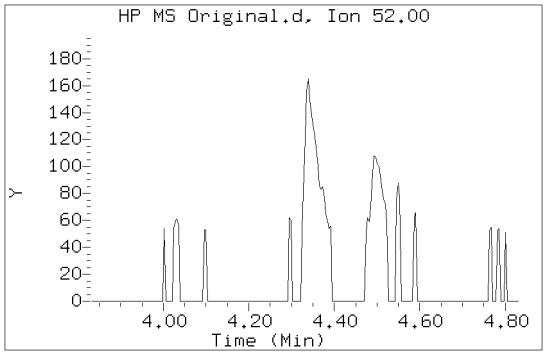
AFTER

MASS
54
AREA
1894
HEIGHT
658
21-Jun-2024
17:11
RUCHA
PATEL



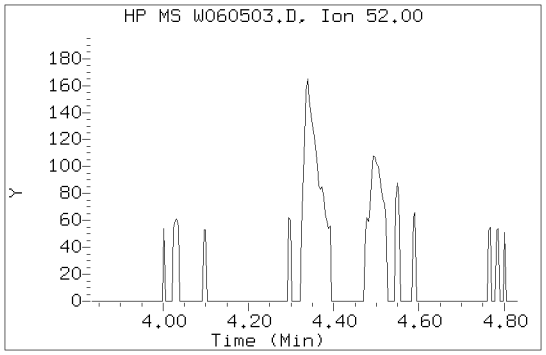
BEFORE

MASS
52
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



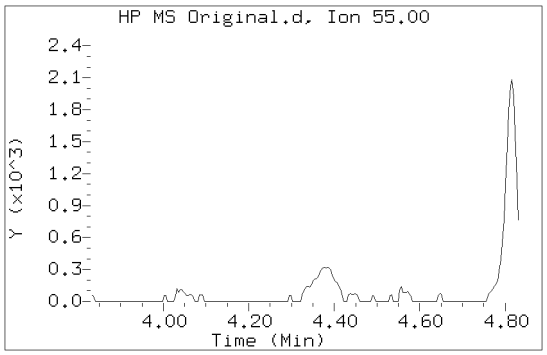
AFTER

MASS
52
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



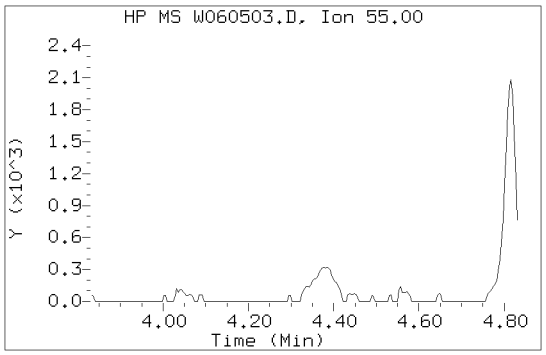
BEFORE

MASS
55
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
55
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



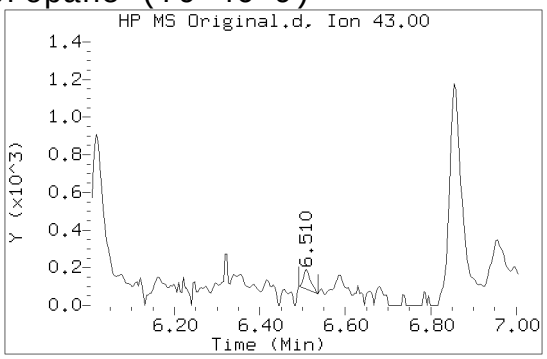
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060503.D
Inj Date : 05-JUN-2024 19:20
InstruID : VOA9.i
LabSampID : VSTD00.5

2-Nitropropane (79-46-9)

Reason Code:

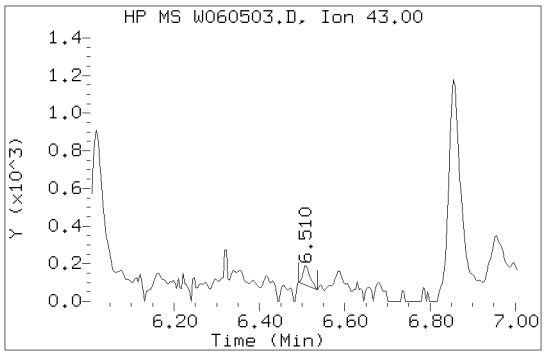
BEFORE

MASS
43
AREA
123
HEIGHT
105
21-Jun-2024
17:11
RUCHA
PATEL



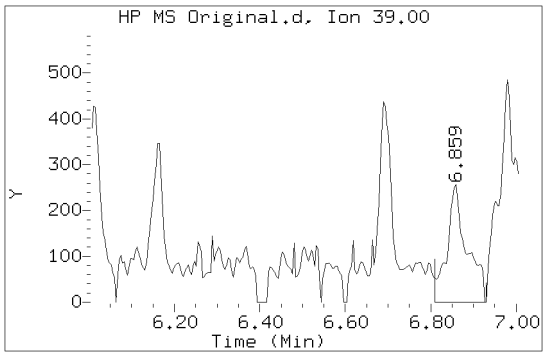
AFTER

MASS
43
AREA
123
HEIGHT
105
21-Jun-2024
17:11
RUCHA
PATEL



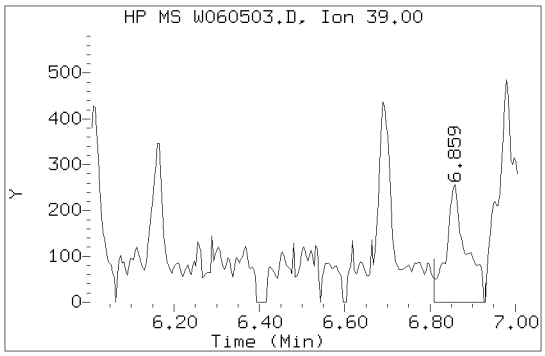
BEFORE

MASS
39
AREA
829
HEIGHT
257
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
39
AREA
829
HEIGHT
257
21-Jun-2024
17:11
RUCHA
PATEL

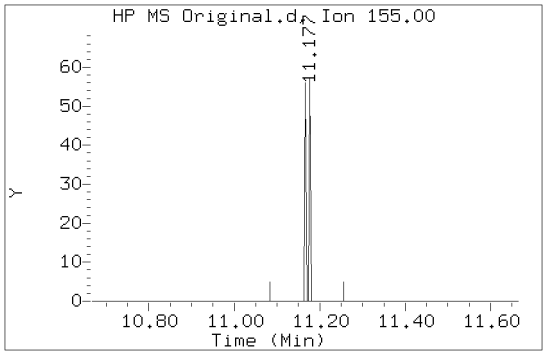


1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

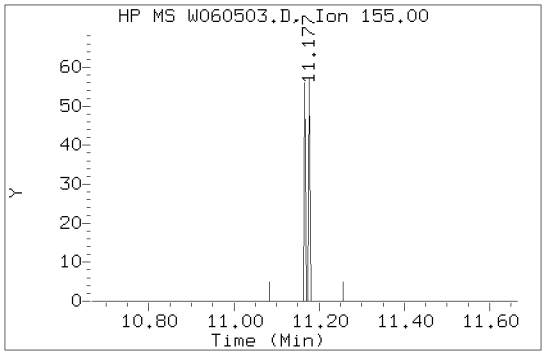
BEFORE

MASS
155
AREA
25
HEIGHT
57
21-Jun-2024
17:11
RUCHA
PATEL



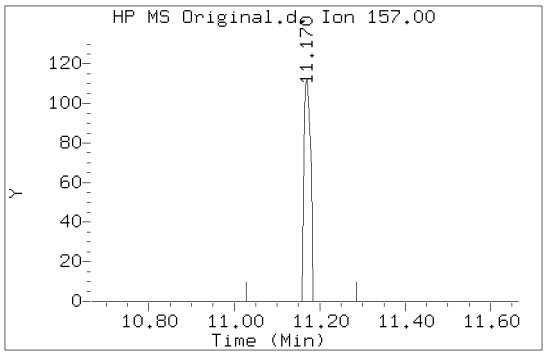
AFTER

MASS
155
AREA
25
HEIGHT
57
21-Jun-2024
17:11
RUCHA
PATEL



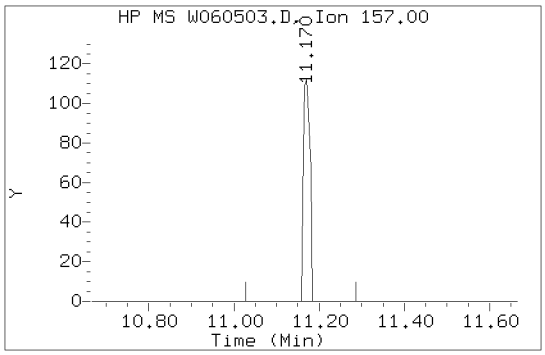
BEFORE

MASS
157
AREA
124
HEIGHT
112
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
157
AREA
124
HEIGHT
112
21-Jun-2024
17:11
RUCHA
PATEL



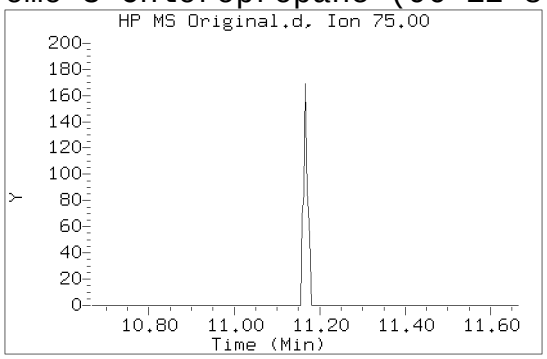
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060503.D
Inj Date : 05-JUN-2024 19:20
InstruID : VOA9.i
LabSampID : VSTD00.5

1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

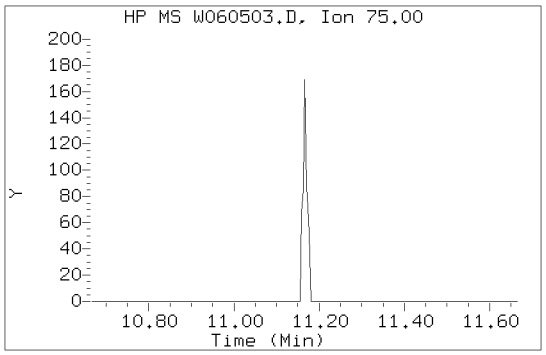
BEFORE

MASS
75
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
75
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

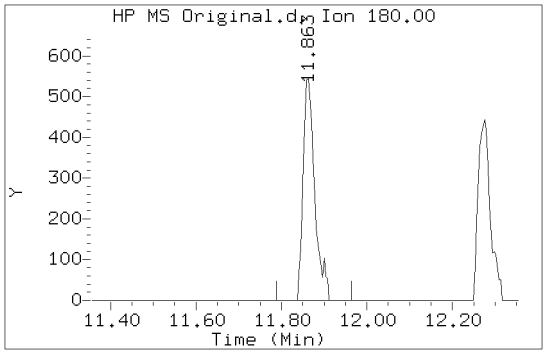


1,2,4-Trichlorobenzene (120-82-1)

Reason Code:

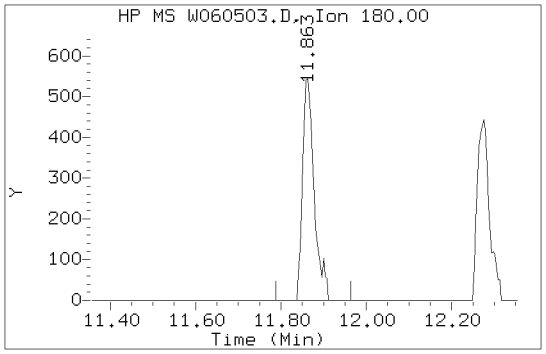
BEFORE

MASS
180
AREA
1040
HEIGHT
544
21-Jun-2024
17:11
RUCHA
PATEL



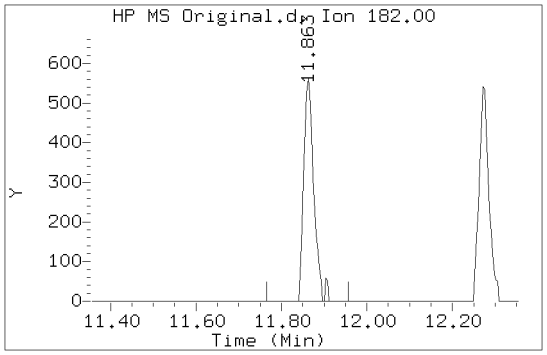
AFTER

MASS
180
AREA
1040
HEIGHT
544
21-Jun-2024
17:11
RUCHA
PATEL



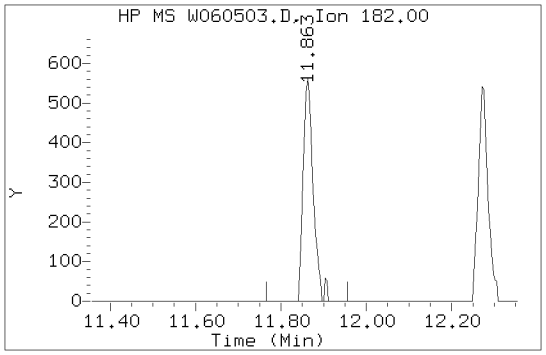
BEFORE

MASS
182
AREA
932
HEIGHT
561
21-Jun-2024
17:11
RUCHA
PATEL



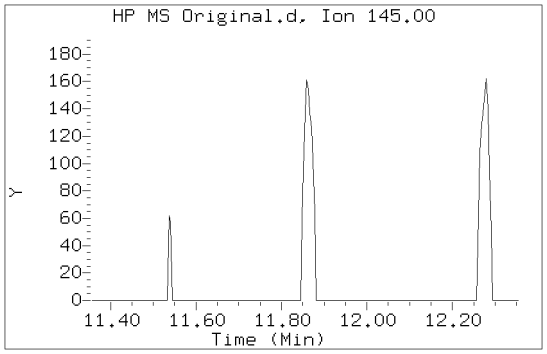
AFTER

MASS
182
AREA
932
HEIGHT
561
21-Jun-2024
17:11
RUCHA
PATEL



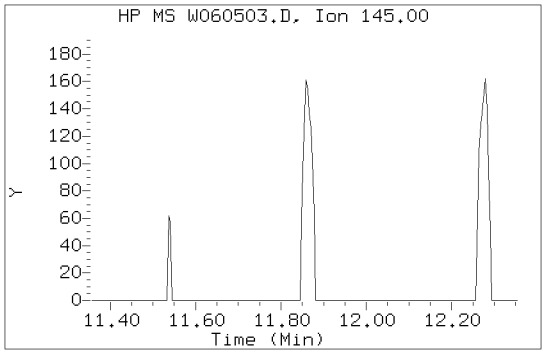
BEFORE

MASS
145
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
145
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



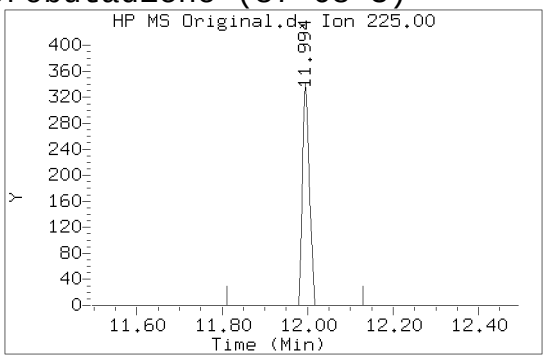
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060503.D
Inj Date : 05-JUN-2024 19:20
InstruID : VOA9.i
LabSampID : VSTD00.5

Hexachlorobutadiene (87-68-3)

Reason Code:

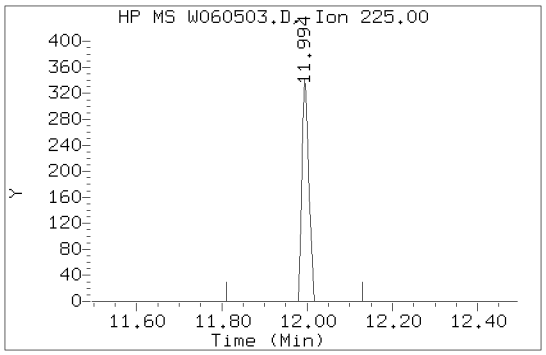
BEFORE

MASS
225
AREA
391
HEIGHT
341
21-Jun-2024
17:11
RUCHA
PATEL



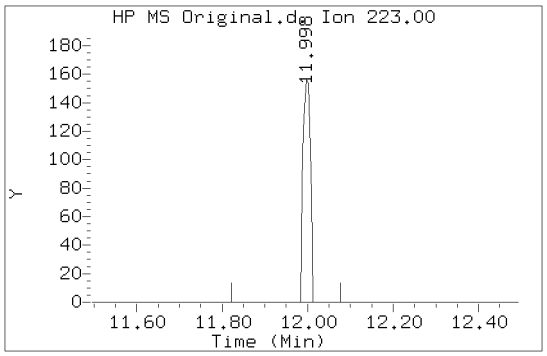
AFTER

MASS
225
AREA
391
HEIGHT
341
21-Jun-2024
17:11
RUCHA
PATEL



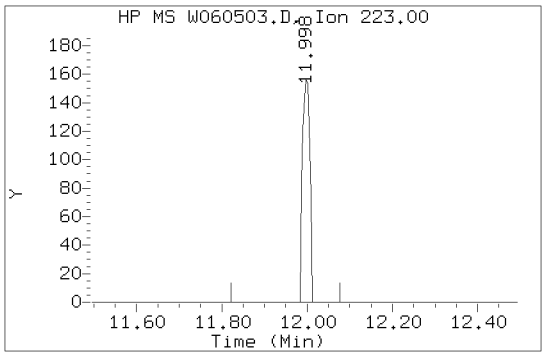
BEFORE

MASS
223
AREA
192
HEIGHT
156
21-Jun-2024
17:11
RUCHA
PATEL



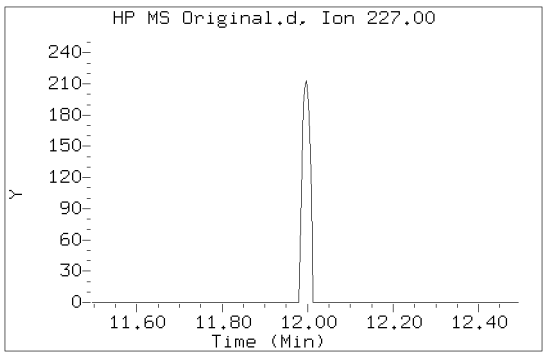
AFTER

MASS
223
AREA
192
HEIGHT
156
21-Jun-2024
17:11
RUCHA
PATEL



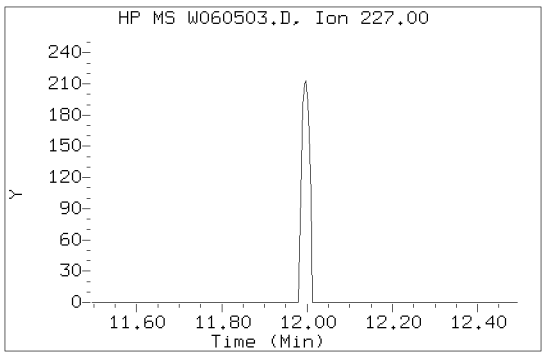
BEFORE

MASS
227
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
227
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

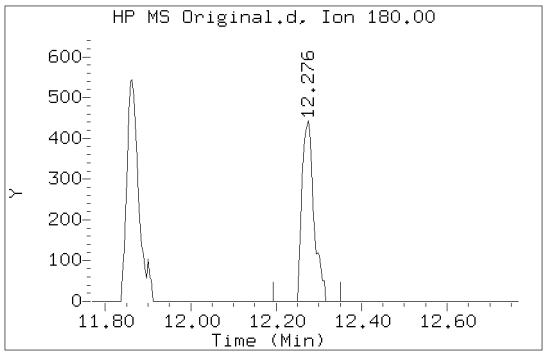


1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

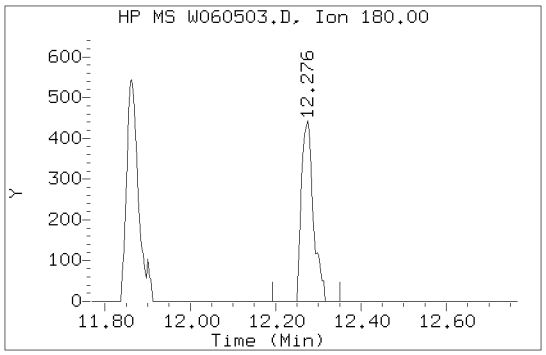
BEFORE

MASS
180
AREA
878
HEIGHT
444
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
180
AREA
878
HEIGHT
444
21-Jun-2024
17:11
RUCHA
PATEL



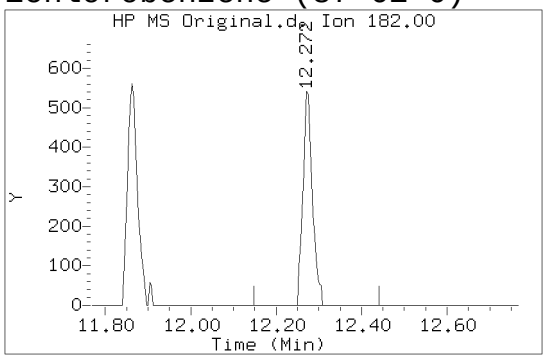
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060503.D
Inj Date : 05-JUN-2024 19:20
InstruID : VOA9.i
LabSampID : VSTD00.5

1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

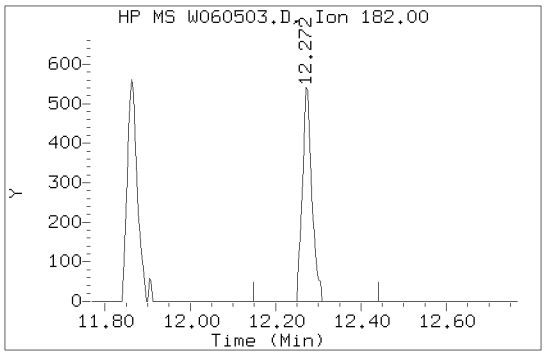
BEFORE

MASS
182
AREA
858
HEIGHT
542
21-Jun-2024
17:11
RUCHA
PATEL



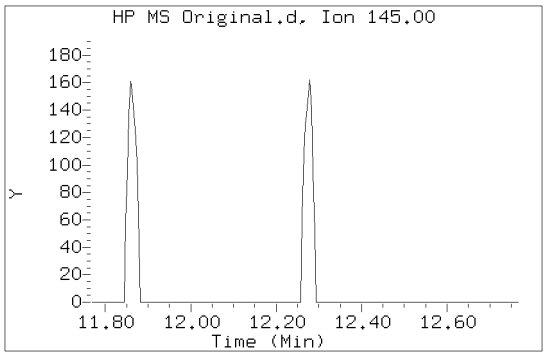
AFTER

MASS
182
AREA
858
HEIGHT
542
21-Jun-2024
17:11
RUCHA
PATEL



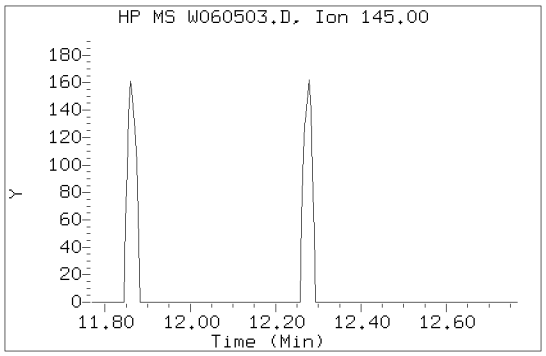
BEFORE

MASS
145
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
145
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

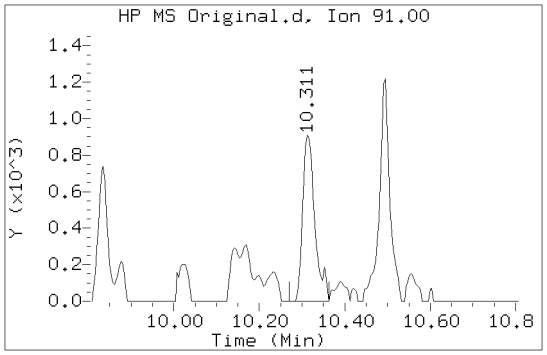


Benzyl Chloride (100-44-7)

Reason Code:

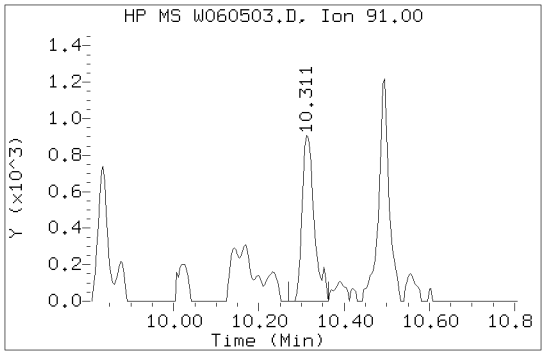
BEFORE

MASS
91
AREA
1834
HEIGHT
910
21-Jun-2024
17:11
RUCHA
PATEL



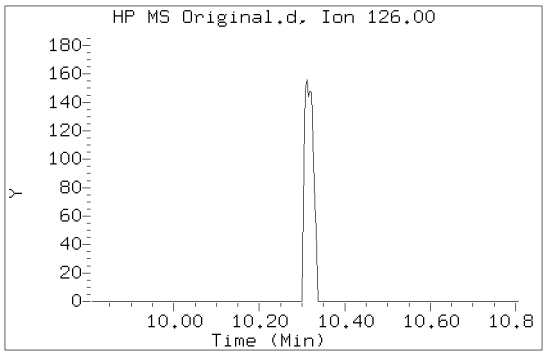
AFTER

MASS
91
AREA
1834
HEIGHT
910
21-Jun-2024
17:11
RUCHA
PATEL



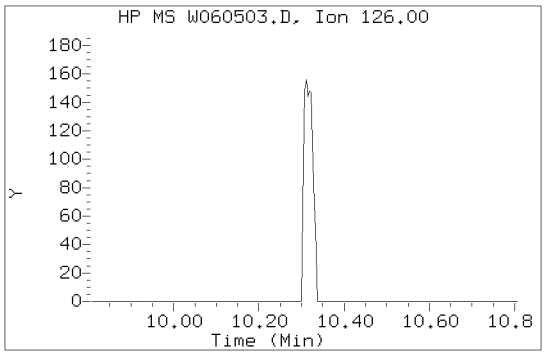
BEFORE

MASS
126
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
126
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



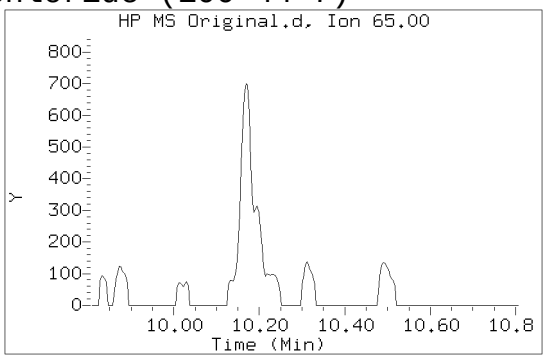
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060503.D
Inj Date : 05-JUN-2024 19:20
InstruID : VOA9.i
LabSampID : VSTD00.5

Benzyl Chloride (100-44-7)

Reason Code:

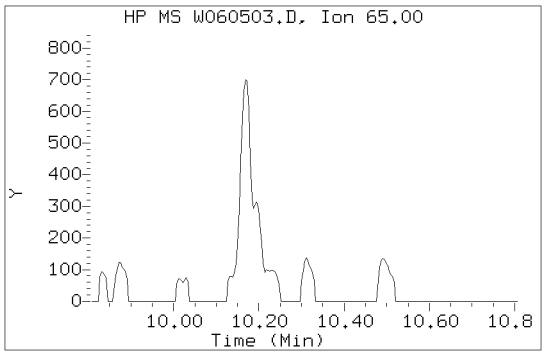
BEFORE

MASS
65
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
65
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

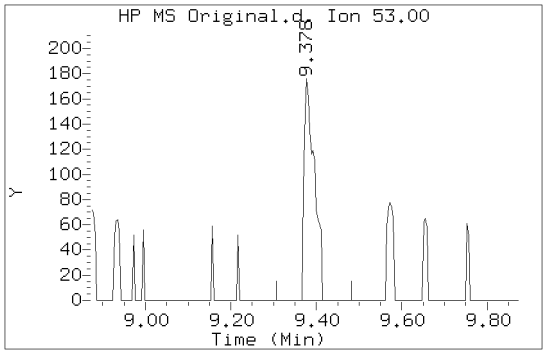


trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

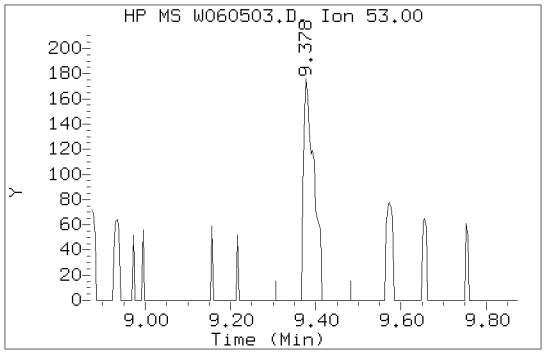
BEFORE

MASS
53
AREA
294
HEIGHT
176
21-Jun-2024
17:11
RUCHA
PATEL



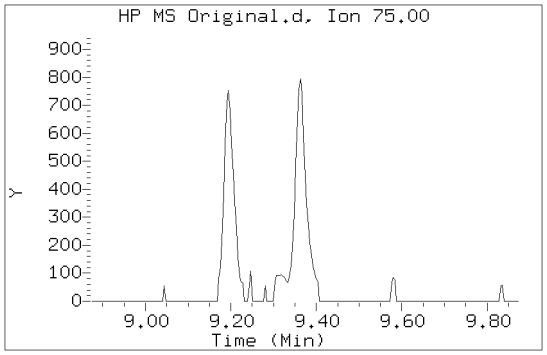
AFTER

MASS
53
AREA
294
HEIGHT
176
21-Jun-2024
17:11
RUCHA
PATEL



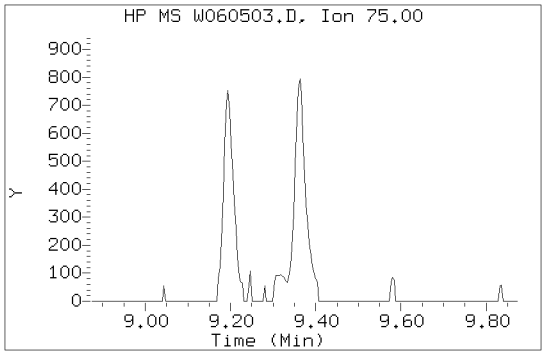
BEFORE

MASS
75
AREA
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HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
75
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

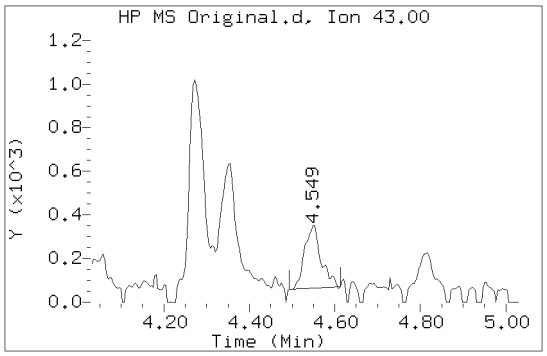


Ethyl Acetate (141-78-6)

Reason Code:

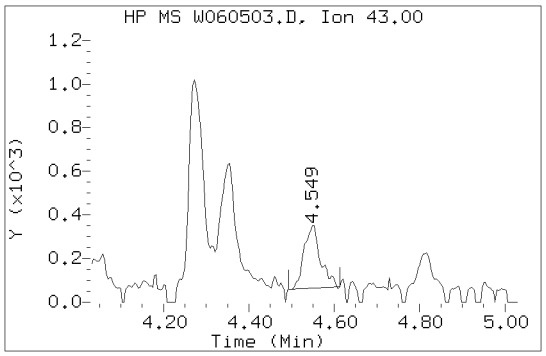
BEFORE

MASS
43
AREA
776
HEIGHT
285
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
43
AREA
776
HEIGHT
285
21-Jun-2024
17:11
RUCHA
PATEL



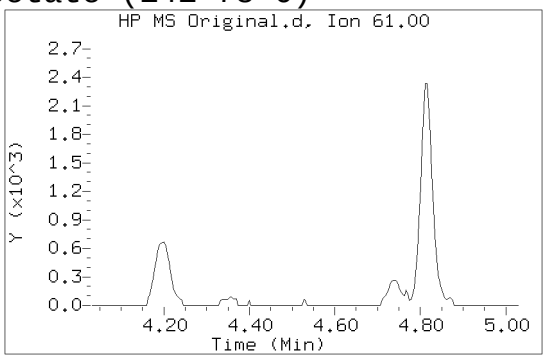
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060503.D
Inj Date : 05-JUN-2024 19:20
InstruID : VOA9.i
LabSampID : VSTD00.5

Ethyl Acetate (141-78-6)

Reason Code:

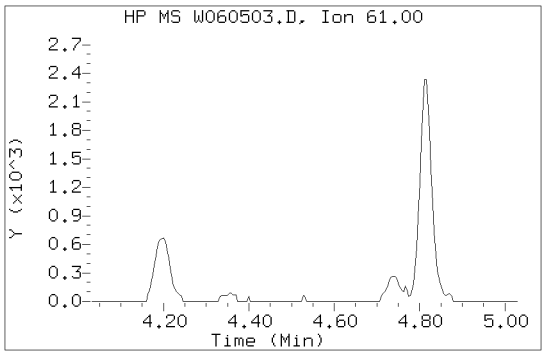
BEFORE

MASS
61
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



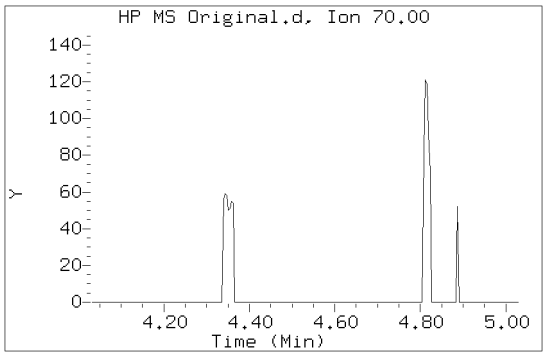
AFTER

MASS
61
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



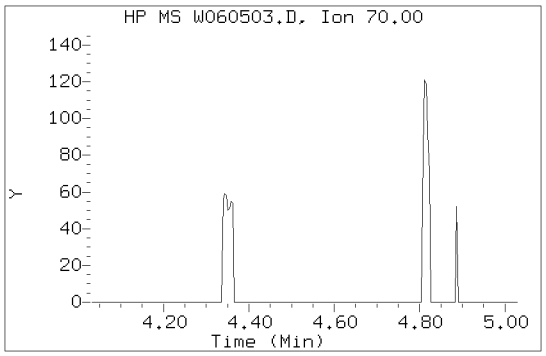
BEFORE

MASS
70
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
70
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

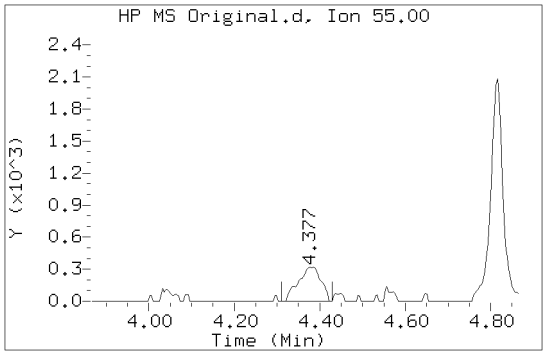


Methyl Acrylate (96-33-3)

Reason Code:

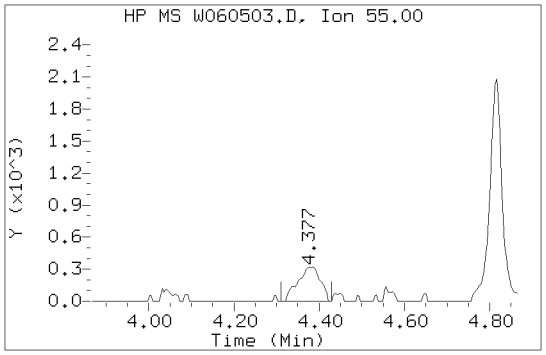
BEFORE

MASS
55
AREA
1181
HEIGHT
319
21-Jun-2024
17:11
RUCHA
PATEL



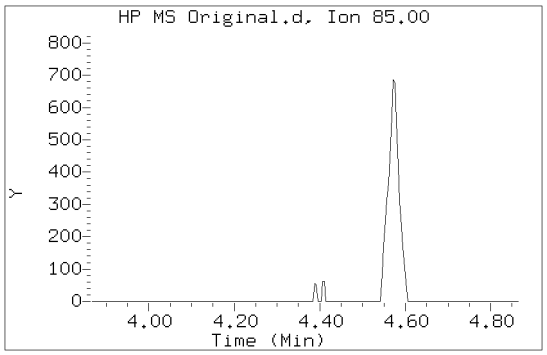
AFTER

MASS
55
AREA
1181
HEIGHT
319
21-Jun-2024
17:11
RUCHA
PATEL



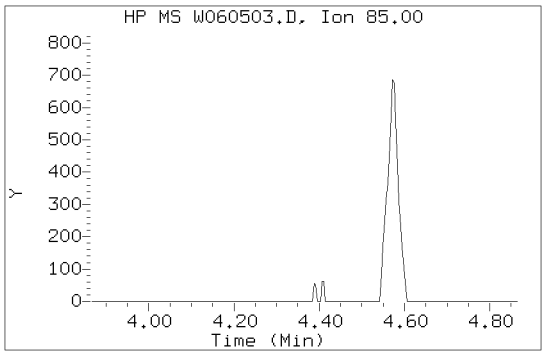
BEFORE

MASS
85
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
85
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



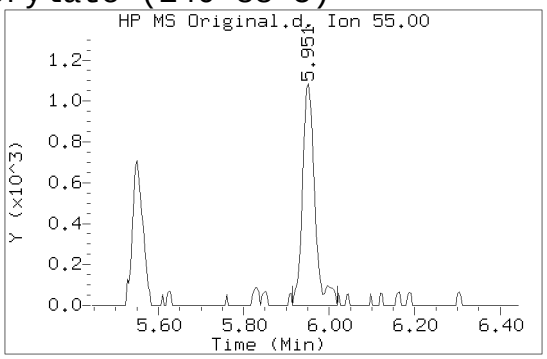
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Inj Date : 05-JUN-2024 19:20
InstruID : VOA9.i
LabSampID : VSTD00.5

Ethyl Acrylate (140-88-5)

Reason Code:

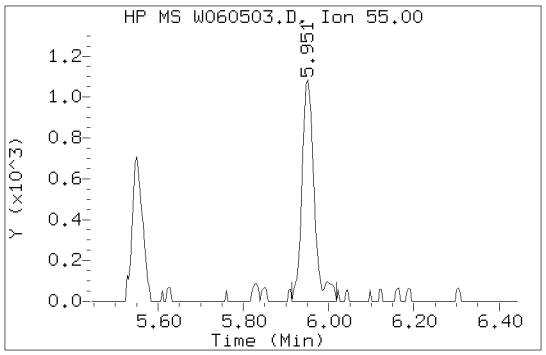
BEFORE

MASS
55
AREA
2201
HEIGHT
1085
21-Jun-2024
17:11
RUCHA
PATEL



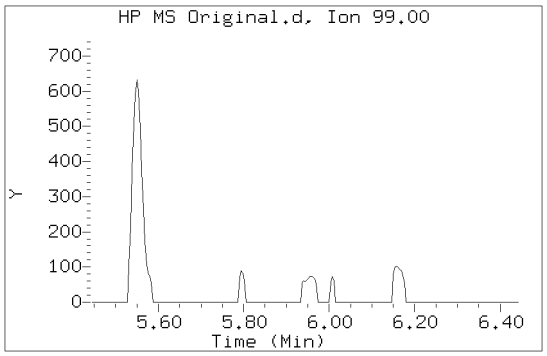
AFTER

MASS
55
AREA
2201
HEIGHT
1085
21-Jun-2024
17:11
RUCHA
PATEL



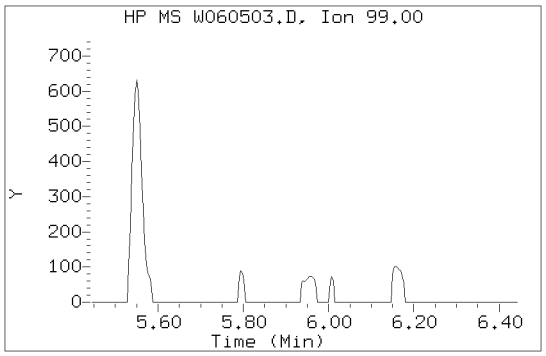
BEFORE

MASS
99
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
99
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

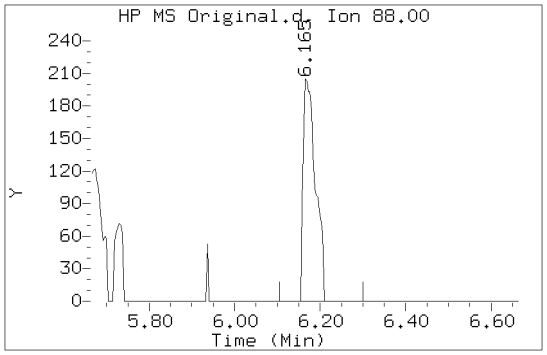


1,4-Dioxane ()

Reason Code:

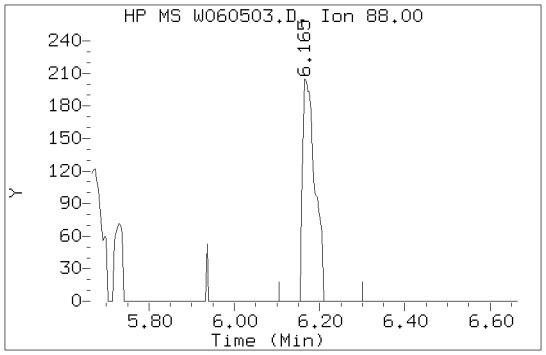
BEFORE

MASS
88
AREA
421
HEIGHT
205
21-Jun-2024
17:11
RUCHA
PATEL



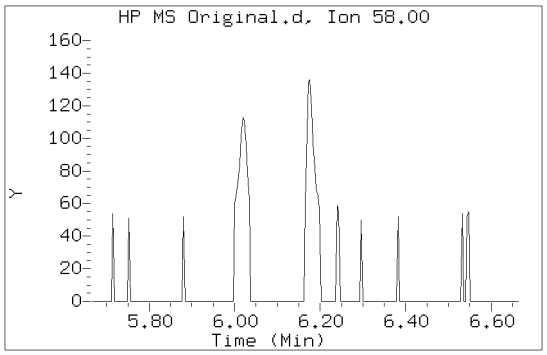
AFTER

MASS
88
AREA
421
HEIGHT
205
21-Jun-2024
17:11
RUCHA
PATEL



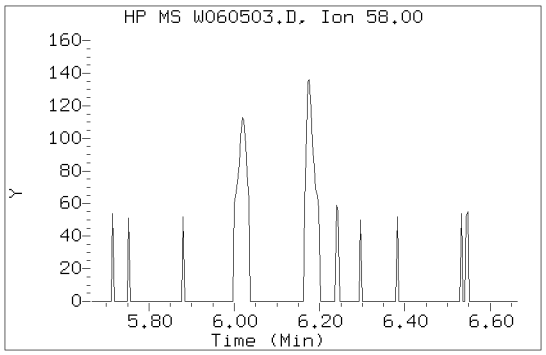
BEFORE

MASS
58
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
58
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



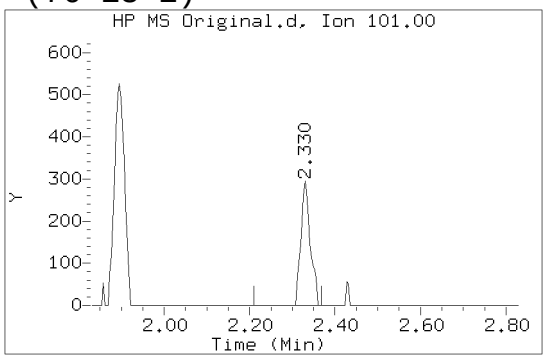
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060503.D
Inj Date : 05-JUN-2024 19:20
InstruID : VOA9.i
LabSampID : VSTD00.5

Freon TF (76-13-1)

Reason Code:

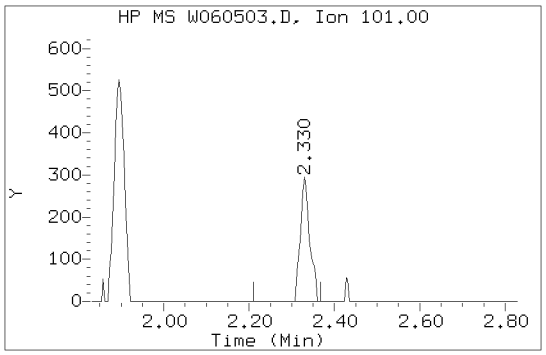
BEFORE

MASS
101
AREA
460
HEIGHT
295
21-Jun-2024
17:11
RUCHA
PATEL



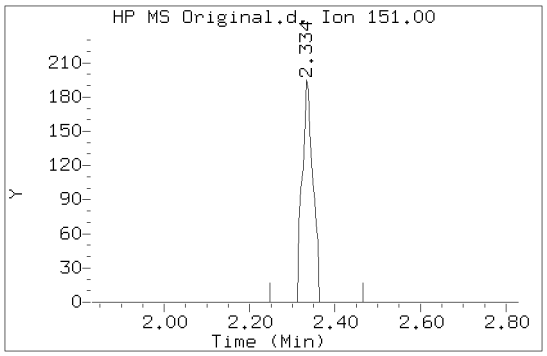
AFTER

MASS
101
AREA
460
HEIGHT
295
21-Jun-2024
17:11
RUCHA
PATEL



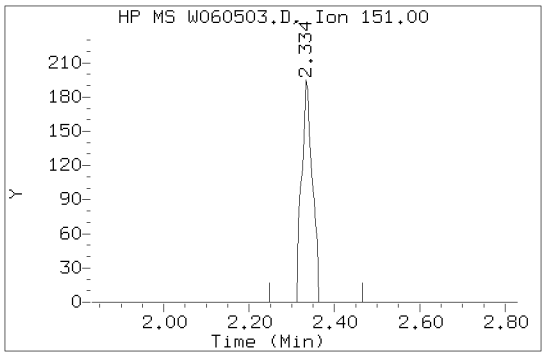
BEFORE

MASS
151
AREA
342
HEIGHT
195
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
151
AREA
342
HEIGHT
195
21-Jun-2024
17:11
RUCHA
PATEL

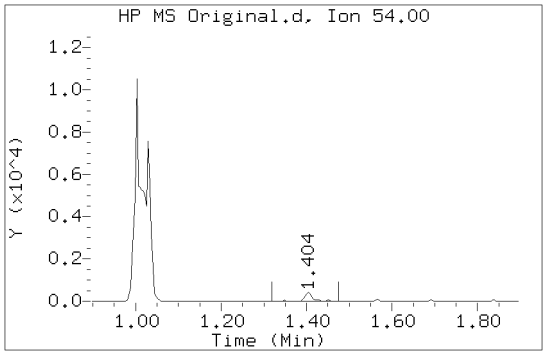


1,3-Butadiene (106-99-0)

Reason Code:

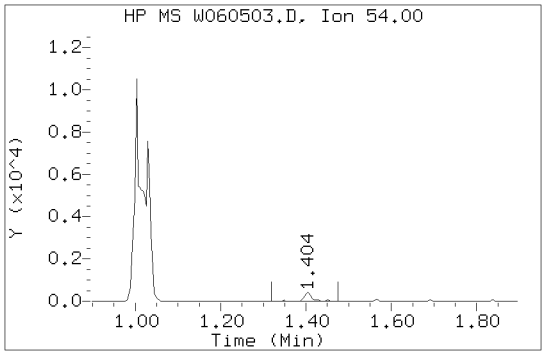
BEFORE

MASS
54
AREA
546
HEIGHT
413
21-Jun-2024
17:11
RUCHA
PATEL



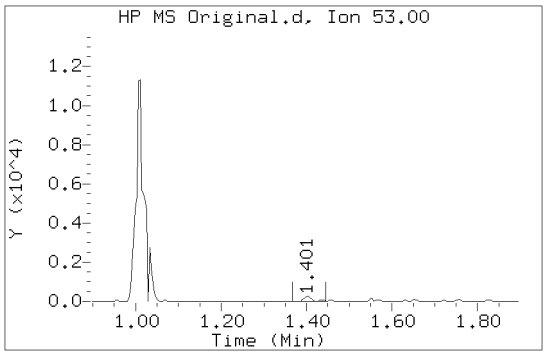
AFTER

MASS
54
AREA
546
HEIGHT
413
21-Jun-2024
17:11
RUCHA
PATEL



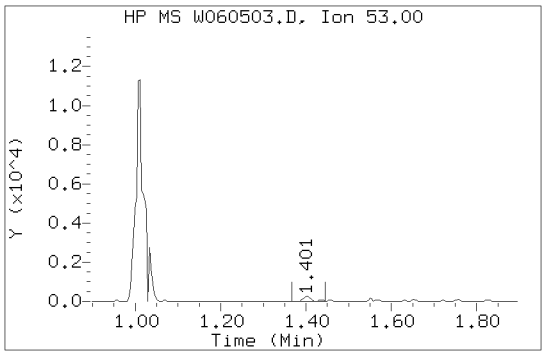
BEFORE

MASS
53
AREA
356
HEIGHT
258
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
53
AREA
356
HEIGHT
258
21-Jun-2024
17:11
RUCHA
PATEL



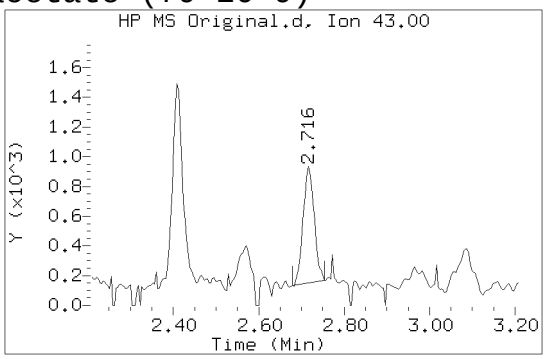
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060503.D
Inj Date : 05-JUN-2024 19:20
InstruID : VOA9.i
LabSampID : VSTD00.5

Methyl acetate (79-20-9)

Reason Code:

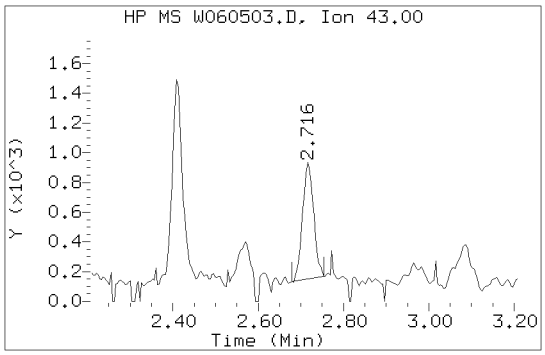
BEFORE

MASS
43
AREA
1420
HEIGHT
784
21-Jun-2024
17:11
RUCHA
PATEL



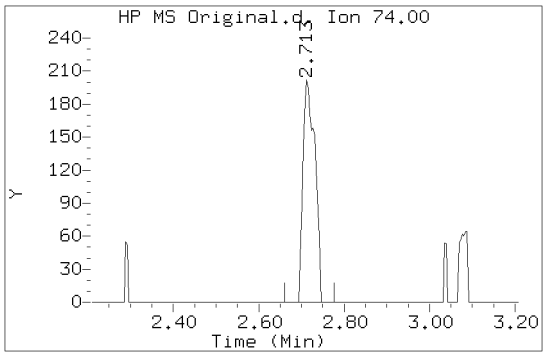
AFTER

MASS
43
AREA
1420
HEIGHT
784
21-Jun-2024
17:11
RUCHA
PATEL



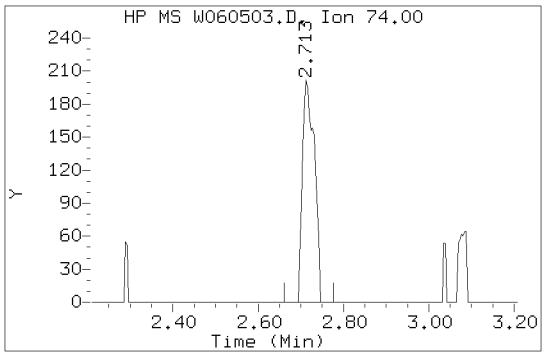
BEFORE

MASS
74
AREA
397
HEIGHT
202
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
74
AREA
397
HEIGHT
202
21-Jun-2024
17:11
RUCHA
PATEL

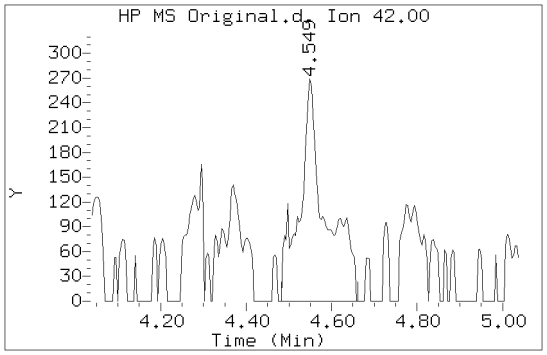


Tetrahydrofuran (109-99-9)

Reason Code:

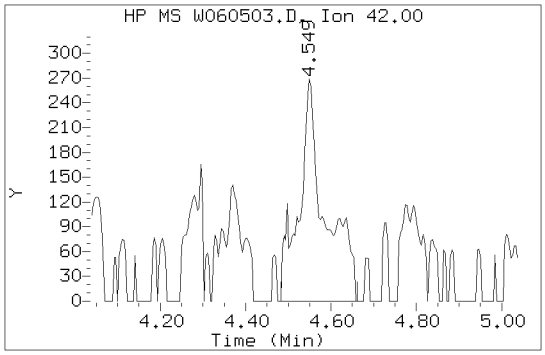
BEFORE

MASS
42
AREA
1151
HEIGHT
269
21-Jun-2024
17:11
RUCHA
PATEL



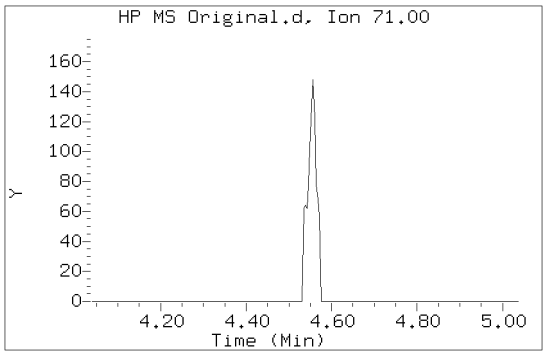
AFTER

MASS
42
AREA
1151
HEIGHT
269
21-Jun-2024
17:11
RUCHA
PATEL



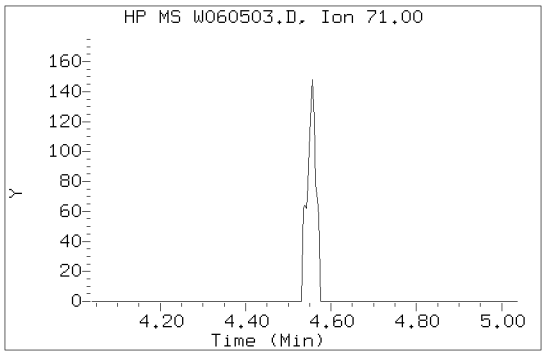
BEFORE

MASS
71
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
71
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



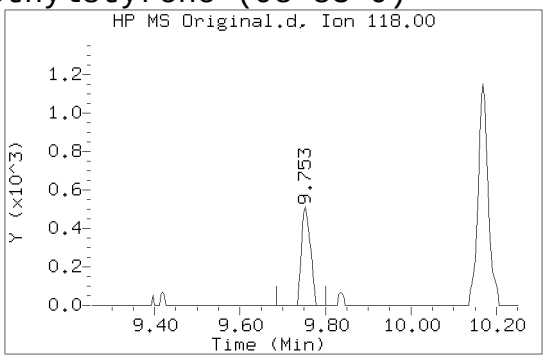
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060503.D
Inj Date : 05-JUN-2024 19:20
InstruID : VOA9.i
LabSampID : VSTD00.5

alpha-Methylstyrene (98-83-9)

Reason Code:

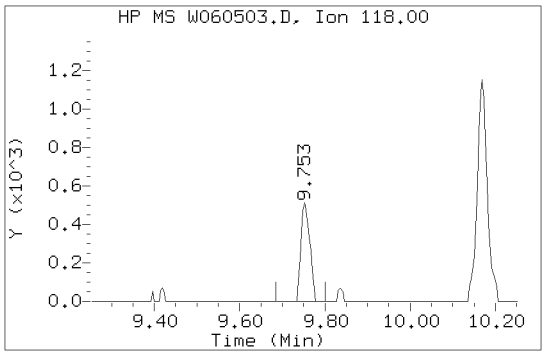
BEFORE

MASS
118
AREA
758
HEIGHT
512
21-Jun-2024
17:11
RUCHA
PATEL



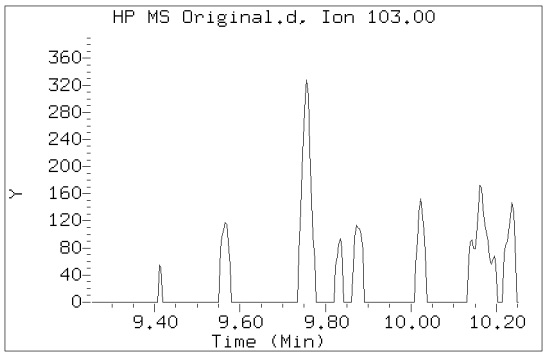
AFTER

MASS
118
AREA
758
HEIGHT
512
21-Jun-2024
17:11
RUCHA
PATEL



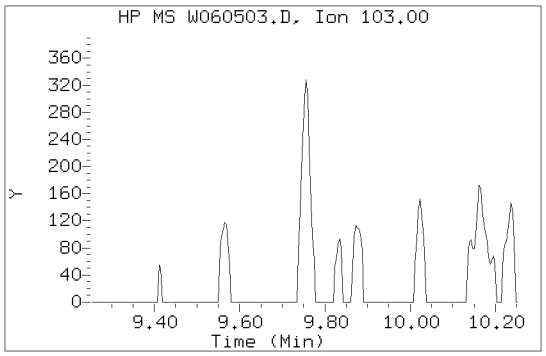
BEFORE

MASS
103
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
103
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

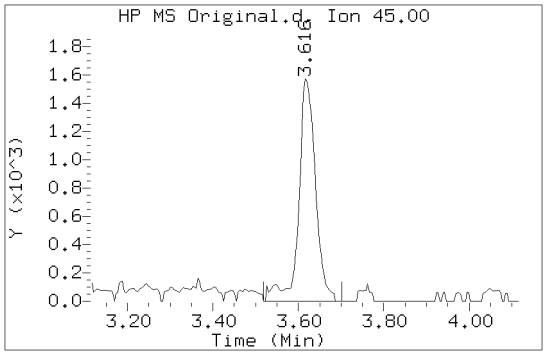


Diisopropyl ether (108-20-3)

Reason Code:

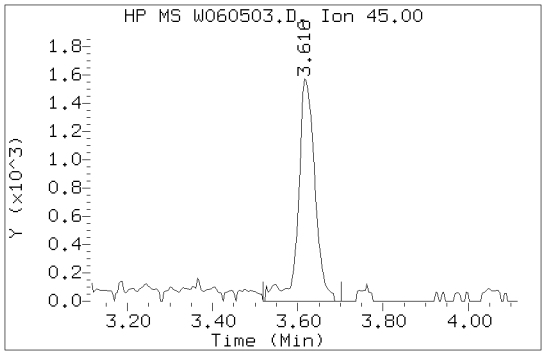
BEFORE

MASS
45
AREA
4355
HEIGHT
1573
21-Jun-2024
17:11
RUCHA
PATEL



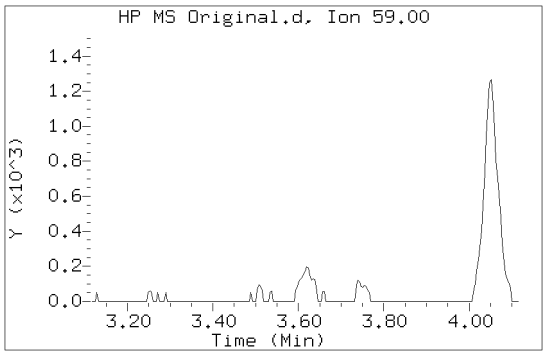
AFTER

MASS
45
AREA
4355
HEIGHT
1573
21-Jun-2024
17:11
RUCHA
PATEL



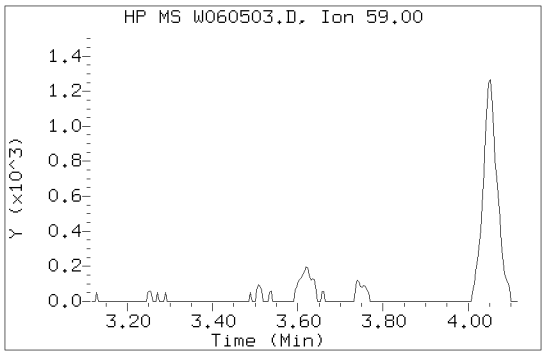
BEFORE

MASS
59
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
59
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



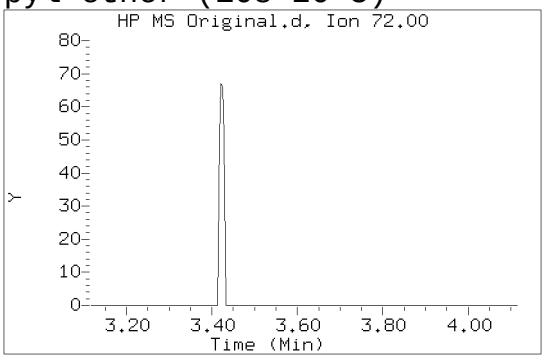
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060503.D
Inj Date : 05-JUN-2024 19:20
InstruID : VOA9.i
LabSampID : VSTD00.5

Diisopropyl ether (108-20-3)

Reason Code:

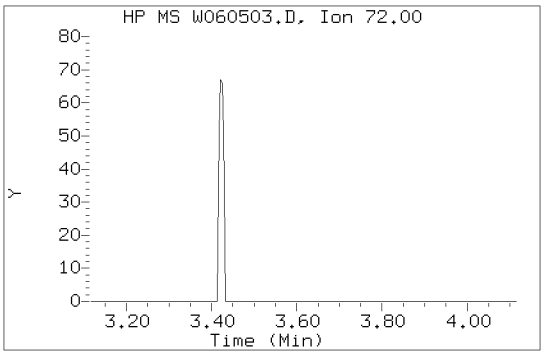
BEFORE

MASS
72
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
72
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

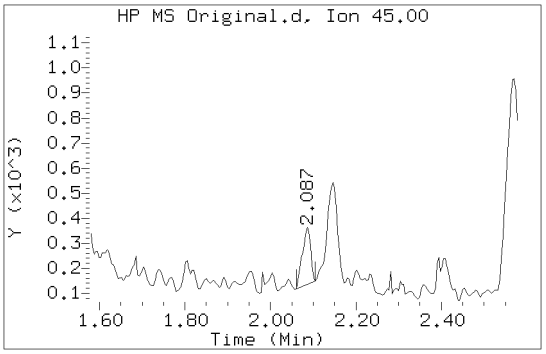


Ethanol (64-17-5)

Reason Code:

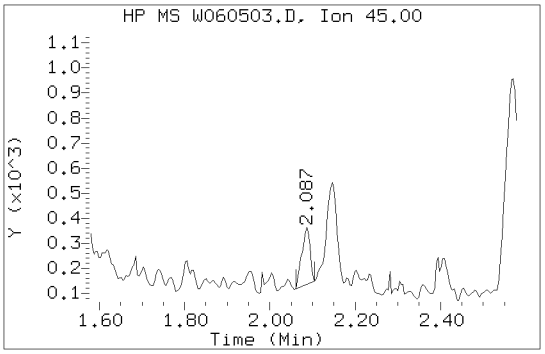
BEFORE

MASS
45
AREA
312
HEIGHT
228
21-Jun-2024
17:11
RUCHA
PATEL



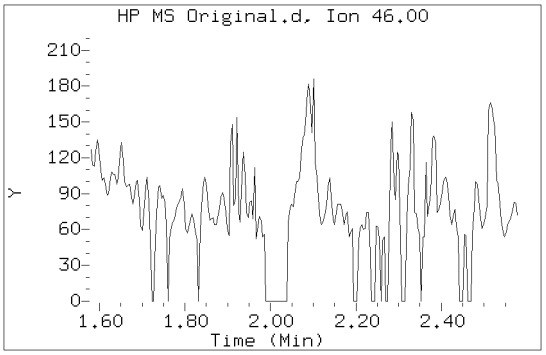
AFTER

MASS
45
AREA
312
HEIGHT
228
21-Jun-2024
17:11
RUCHA
PATEL



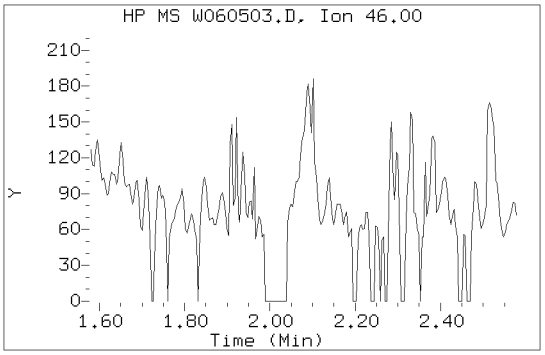
BEFORE

MASS
46
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



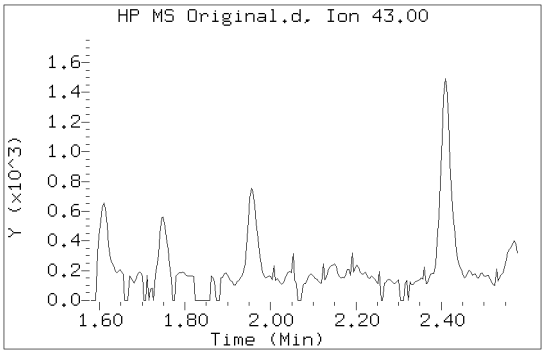
AFTER

MASS
46
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



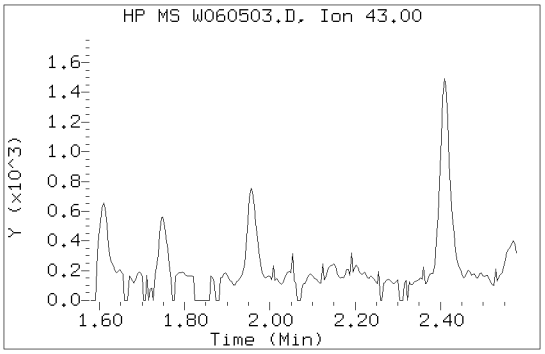
BEFORE

MASS
43
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
43
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



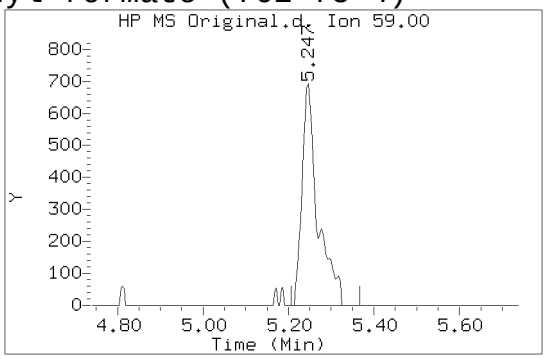
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060503.D
Inj Date : 05-JUN-2024 19:20
InstruID : VOA9.i
LabSampID : VSTD00.5

tert-Butyl formate (762-75-4)

Reason Code:

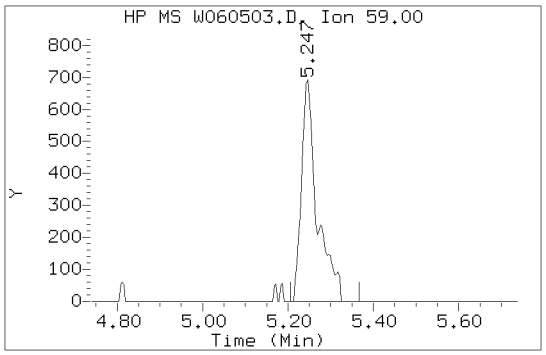
BEFORE

MASS
59
AREA
1788
HEIGHT
693
21-Jun-2024
17:11
RUCHA
PATEL



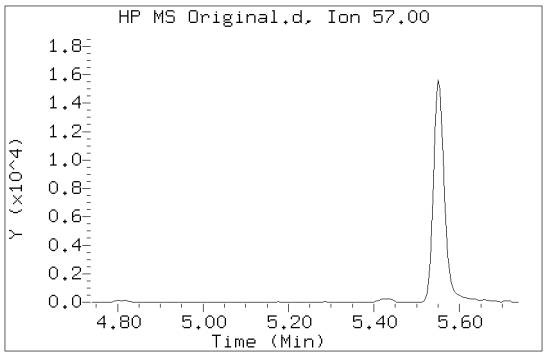
AFTER

MASS
59
AREA
1788
HEIGHT
693
21-Jun-2024
17:11
RUCHA
PATEL



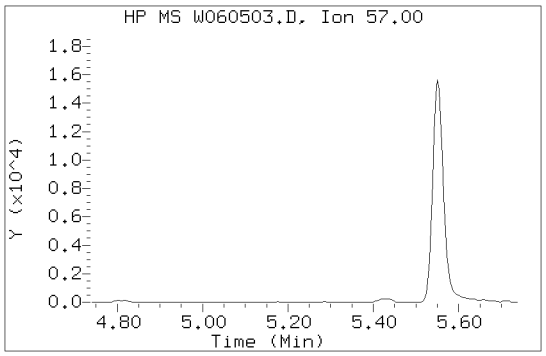
BEFORE

MASS
57
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



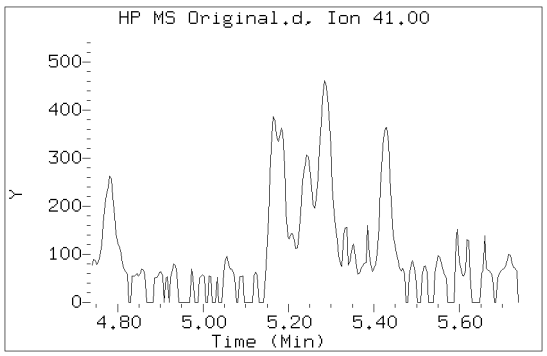
AFTER

MASS
57
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



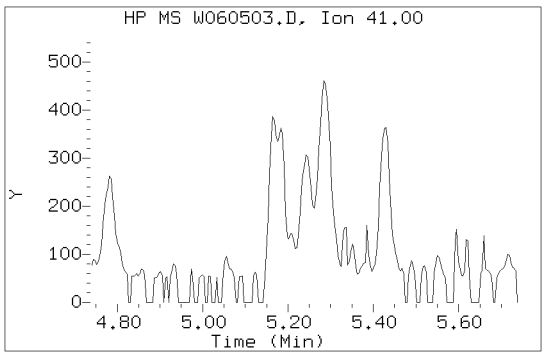
BEFORE

MASS
41
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
41
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

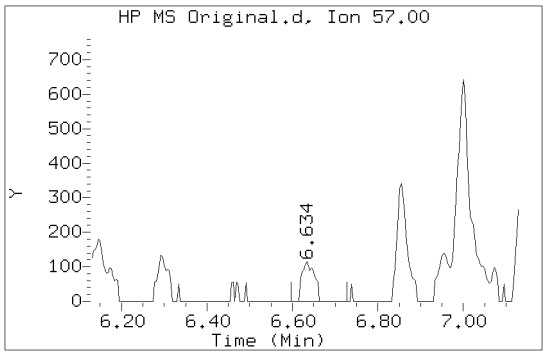


Epichlorohydrin (106-89-8)

Reason Code:

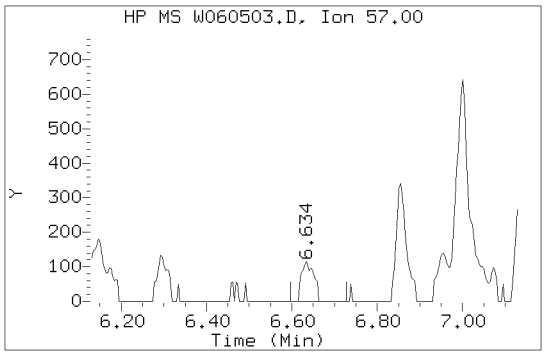
BEFORE

MASS
57
AREA
232
HEIGHT
115
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
57
AREA
232
HEIGHT
115
21-Jun-2024
17:11
RUCHA
PATEL



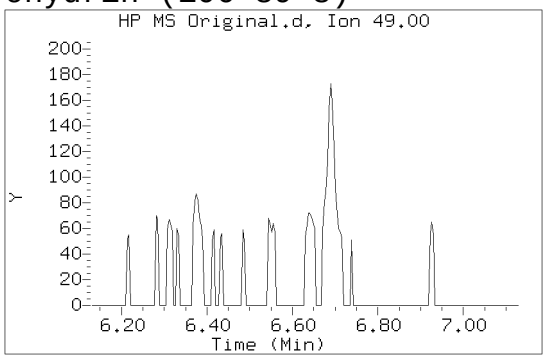
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060503.D
Inj Date : 05-JUN-2024 19:20
InstruID : VOA9.i
LabSampID : VSTD00.5

Epichlorohydrin (106-89-8)

Reason Code:

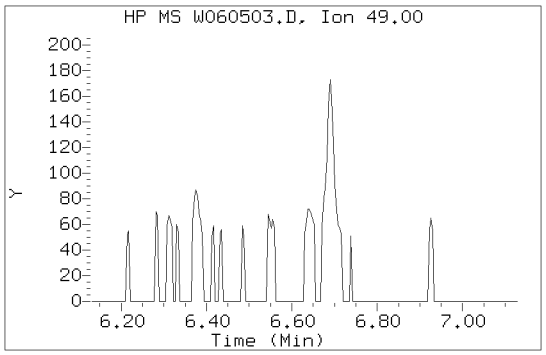
BEFORE

MASS
49
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
49
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

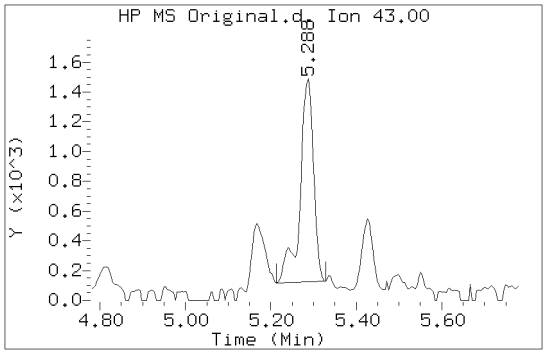


Isopropyl acetate (108-21-4)

Reason Code:

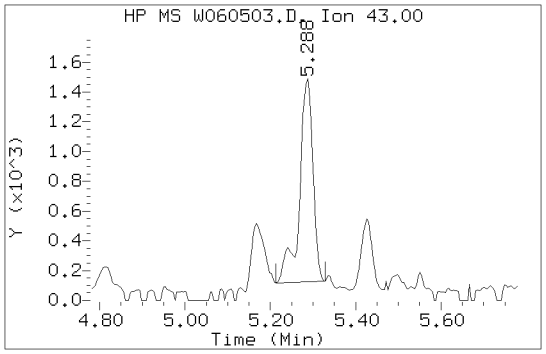
BEFORE

MASS
43
AREA
3037
HEIGHT
1365
21-Jun-2024
17:11
RUCHA
PATEL



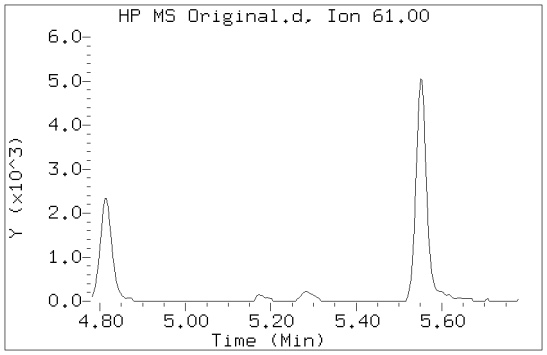
AFTER

MASS
43
AREA
3037
HEIGHT
1365
21-Jun-2024
17:11
RUCHA
PATEL



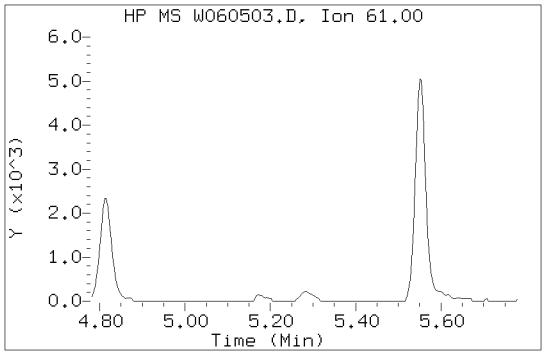
BEFORE

MASS
61
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
61
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

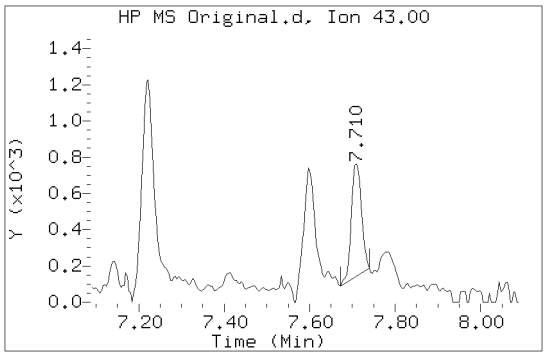


n-Butyl acetate (123-86-4)

Reason Code:

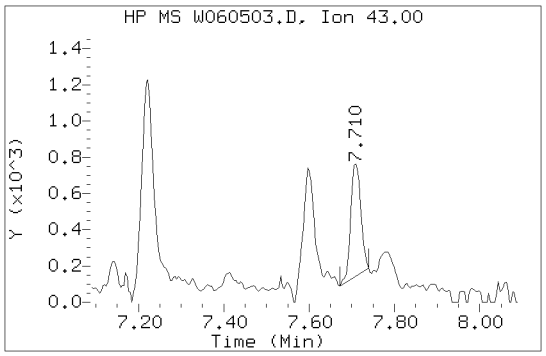
BEFORE

MASS
43
AREA
1029
HEIGHT
621
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
43
AREA
1029
HEIGHT
621
21-Jun-2024
17:11
RUCHA
PATEL



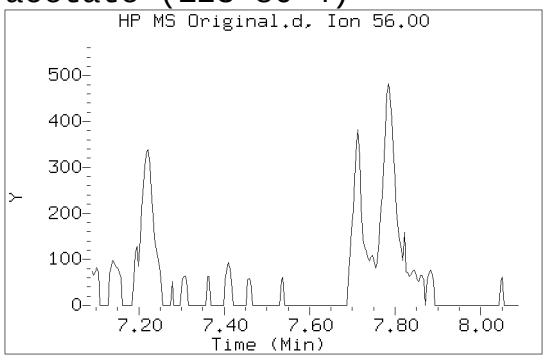
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060503.D
Inj Date : 05-JUN-2024 19:20
InstruID : VOA9.i
LabSampID : VSTD00.5

n-Butyl acetate (123-86-4)

Reason Code:

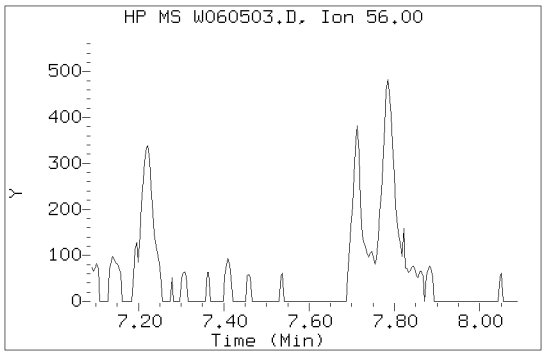
BEFORE

MASS
56
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



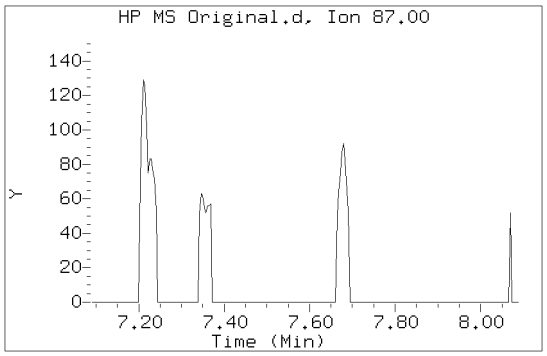
AFTER

MASS
56
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



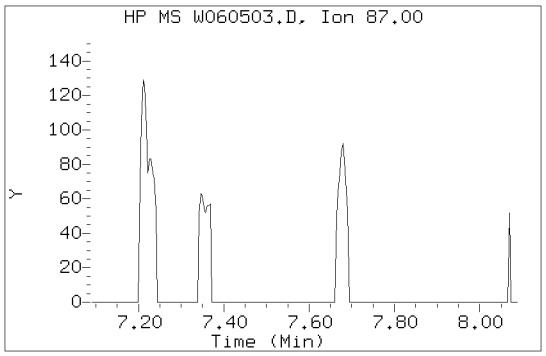
BEFORE

MASS
87
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
87
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

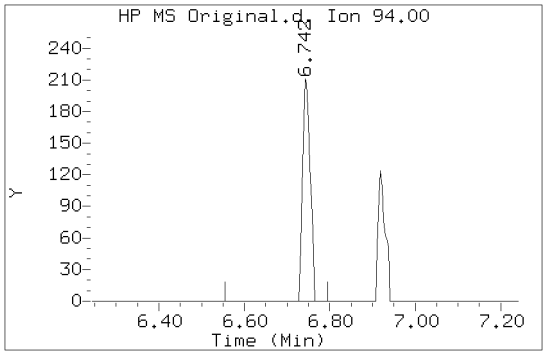


Dimethyl Disulfide (624-92-0)

Reason Code:

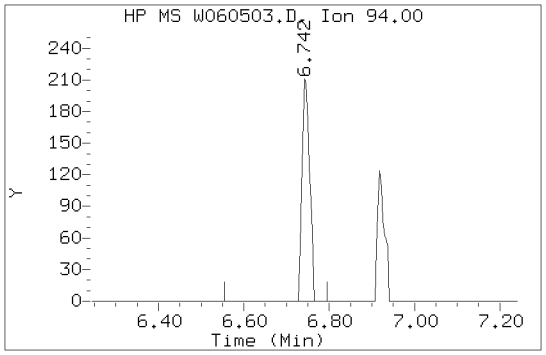
BEFORE

MASS
94
AREA
271
HEIGHT
211
21-Jun-2024
17:11
RUCHA
PATEL



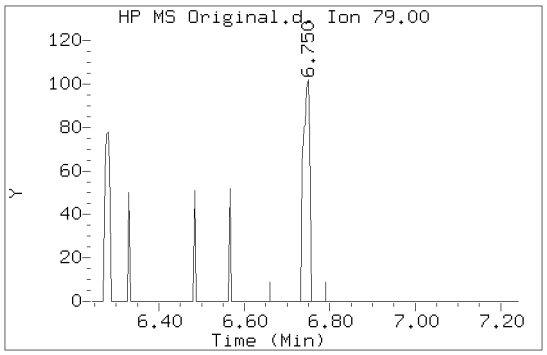
AFTER

MASS
94
AREA
271
HEIGHT
211
21-Jun-2024
17:11
RUCHA
PATEL



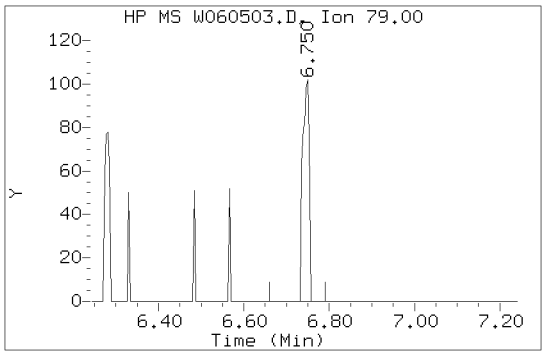
BEFORE

MASS
79
AREA
112
HEIGHT
102
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
79
AREA
112
HEIGHT
102
21-Jun-2024
17:11
RUCHA
PATEL



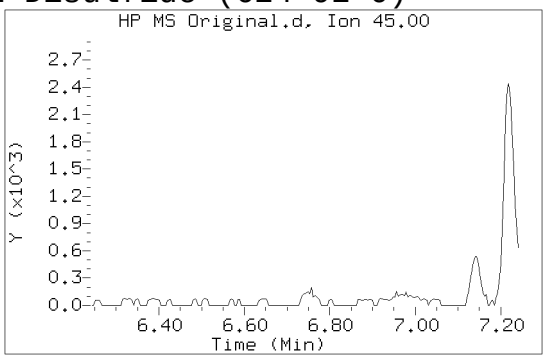
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060503.D
Inj Date : 05-JUN-2024 19:20
InstruID : VOA9.i
LabSampID : VSTD00.5

Dimethyl Disulfide (624-92-0)

Reason Code:

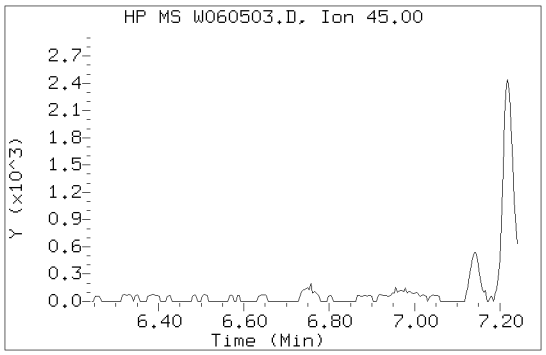
BEFORE

MASS
45
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
45
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

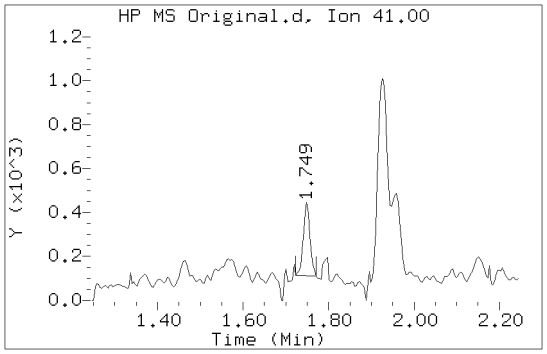


Isobutylene (115-11-7)

Reason Code:

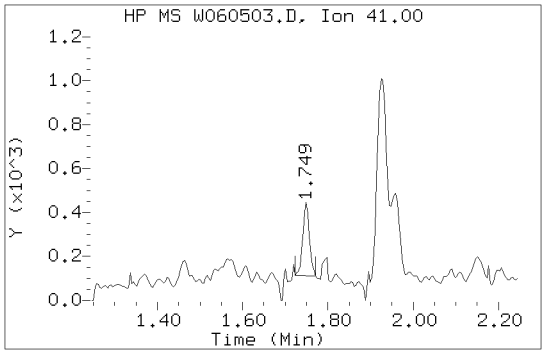
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PATEL



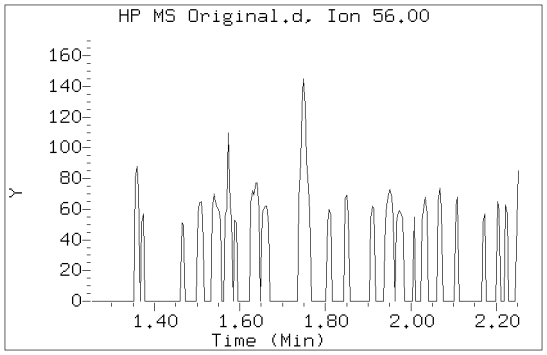
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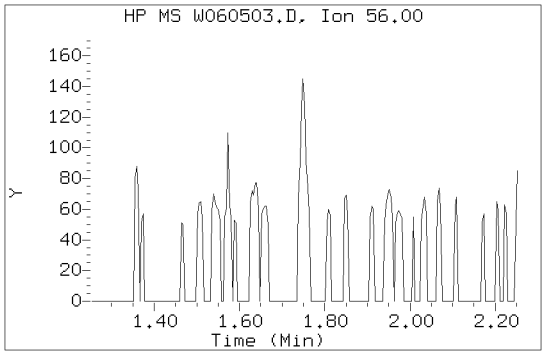
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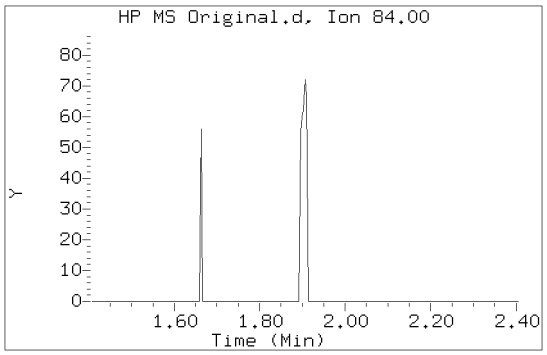
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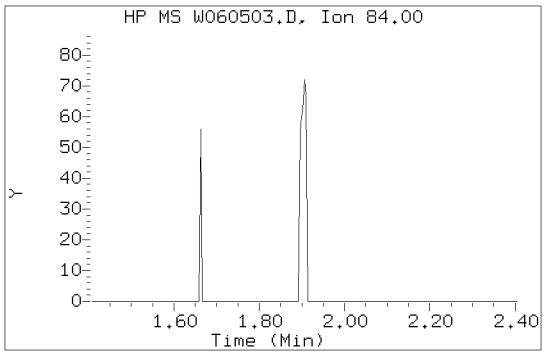
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AFTER

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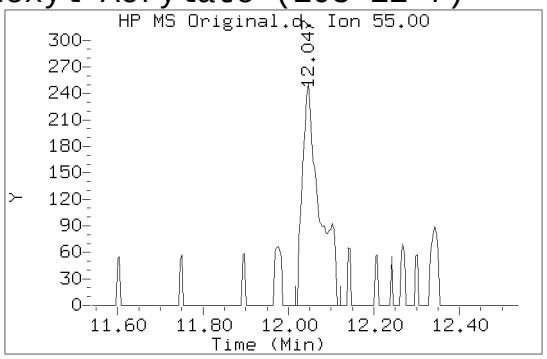
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Inj Date : 05-JUN-2024 19:20
InstruID : VOA9.i
LabSampID : VSTD00.5

2-Ethylhexyl Acrylate (103-11-7)

Reason Code:

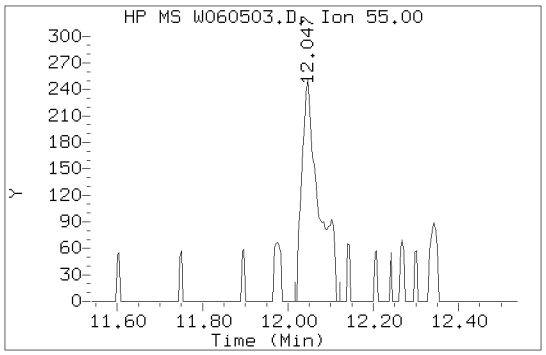
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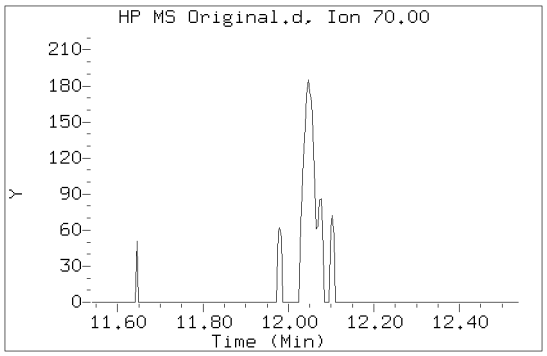
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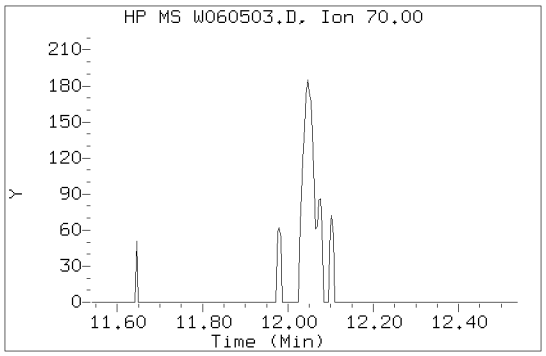
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AFTER

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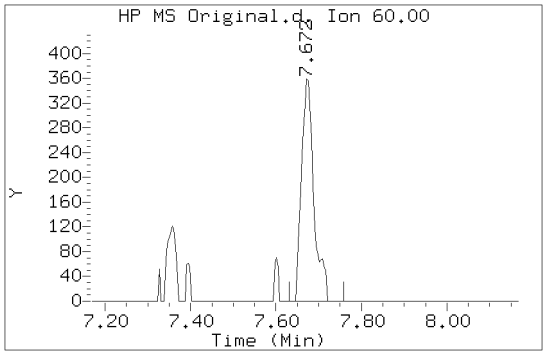


Tetrahydrothiophene (110-01-0)

Reason Code:

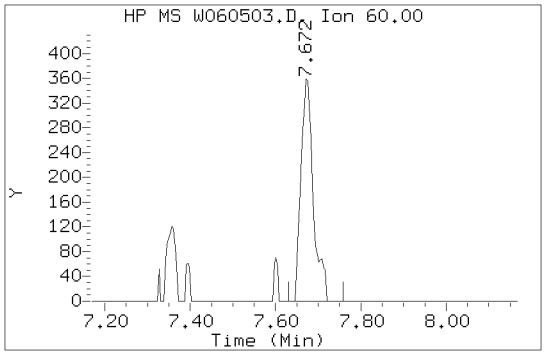
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AFTER

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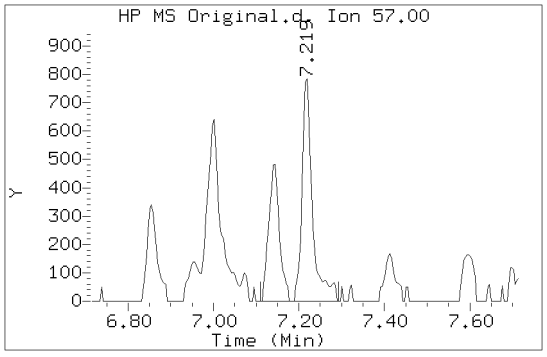


sec-Butyl Ether (6863-58-7)

Reason Code:

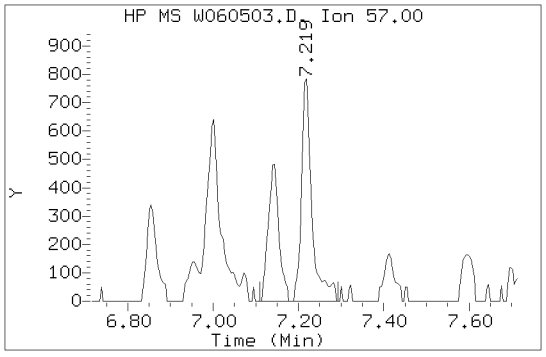
BEFORE

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21-Jun-2024
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AFTER

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HEIGHT
784
21-Jun-2024
17:11
RUCHA
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Data File: \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060504.D Page 1
Report Date: 21-Jun-2024 17:11

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060504.D
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Inj Date : 05-JUN-2024 19:41
Operator : TS Inst ID: VOA9.i
Smp Info : VSTD001;VSTD001;1;3
Misc Info : V9;WATER;0;1;
Comment   :
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Meth Date : 21-Jun-2024 17:11 VOA9.i Quant Type: ISTD
Cal Date : 05-JUN-2024 19:20 Cal File: W060503.D
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.811	4.811	(1.000)	202507	50.0000	
2	Dichlorodifluoromethane	85	1.160	1.160	(0.241)	674	1.00000	1.85(M)
4	Propionitrile	54	4.339	4.339	(0.902)	2734	10.0000	15.34(a)
5	Vinyl Chloride	62	1.370	1.370	(0.285)	1597	1.00000	1.16
6	Bromomethane	94	1.614	1.614	(0.335)	1336	1.00000	1.61
7	Chloroethane	64	1.696	1.696	(0.353)	1372	1.00000	1.20(M)
8	Trichlorofluoromethane	101	1.891	1.891	(0.393)	2046	1.00000	1.15
9	Acrolein	56	2.255	2.255	(0.469)	319	2.00000	0.63(aM)
10	Acetone	43	2.405	2.405	(0.500)	2573	2.00000	0.69(a)
11	1,1-Dichloroethene	96	2.330	2.330	(0.484)	1351	1.00000	1.16
12	Isobutyl Alcohol	43	5.284	5.284	(1.098)	4470	20.0000	20.75(a)
13	Acetonitrile	39	2.663	2.663	(0.554)	1908	10.0000	13.11(a)
14	Allyl Chloride	41	2.667	2.667	(0.554)	4870	1.00000	1.35(a)
15	Iodomethane	142	2.461	2.461	(0.512)	1107	2.00000	2.67(T)
16	Acrylonitrile	53	3.061	3.061	(0.636)	1798	2.00000	2.11
17	Methylene Chloride	84	2.791	2.791	(0.580)	2735	1.00000	0.61
18	Methyl tert-butyl ether	73	3.076	3.076	(0.639)	4478	1.00000	1.25
19	Carbon Disulfide	76	2.513	2.513	(0.522)	7419	2.00000	2.22
20	trans-1,2-Dichloroethene	96	3.053	3.053	(0.635)	1615	1.00000	1.37
21	Vinyl Acetate	43	4.343	4.343	(0.903)	1876	2.00000	2.81(M)

22 1,1-Dichloroethane	63	3.507	3.507 (0.729)	3367	1.00000	1.07(T)
23 Chloroprene	53	3.604	3.604 (0.749)	2041	1.00000	0.98(a)

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060504.D Page 2
Report Date: 21-Jun-2024 17:11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
24	2-Butanone	43	4.268	4.268	(0.887)	3070	2.00000	3.37
25	Methacrylonitrile	41	4.496	4.496	(0.935)	1301	1.00000	2.87(aM)
26	2,2-Dichloropropane	77	4.174	4.174	(0.868)	1781	1.00000	1.03(M)
27	cis-1,2-Dichloroethene	96	4.189	4.189	(0.871)	1821	1.00000	1.38
28	Chloroform	83	4.568	4.568	(0.949)	3194	1.00000	1.19
29	Bromochloromethane	128	4.470	4.470	(0.929)	854	1.00000	0.66
$ 30	Dibromofluoromethane	113	4.744	4.744	(0.986)	1809	1.00000	1.23
31	1,1,1-Trichloroethane	97	4.736	4.736	(0.984)	1952	1.00000	1.01
32	1,1-Dichloropropene	75	4.920	4.920	(0.887)	1795	1.00000	0.94
33	1,2-Dichloroethane	62	5.175	5.175	(0.932)	2470	1.00000	0.57
34	Carbon Tetrachloride	117	4.901	4.901	(0.883)	1776	1.00000	1.13
$ 35	1,2-Dichloroethane-d4	65	5.093	5.093	(1.058)	2549	1.00000	1.43(T)
* 36	1,4-Difluorobenzene	114	5.550	5.550	(1.000)	294825	50.0000	
37	Benzene	78	5.137	5.137	(0.926)	6794	1.00000	1.33
38	Trichloroethene	130	5.786	5.786	(1.043)	1611	1.00000	1.09(a)
39	Bromodichloromethane	83	6.273	6.273	(1.130)	1664	1.00000	0.95(aM)
40	Methyl Methacrylate	41	5.827	5.827	(1.211)	884	1.00000	3.65(aM)
41	2-Chloroethylvinyl ether	63	6.577	6.577	(1.185)	308	2.00000	6.82(M)
42	1,2-Dichloropropane	63	6.003	6.003	(1.082)	1675	1.00000	1.00(a)
43	2-Nitropropane	43	6.502	6.502	(1.351)	201	1.00000	0.68(aM)
44	Dibromomethane	93	6.116	6.116	(1.102)	1022	1.00000	0.95(a)
45	4-Methyl-2-Pentanone	43	6.854	6.854	(0.838)	3077	2.00000	4.50(a)
46	cis-1,3-Dichloropropene	75	6.686	6.686	(1.205)	1599	1.00000	3.12(aM)
* 47	Chlorobenzene-d5	117	8.181	8.181	(1.000)	261999	50.0000	
$ 48	Toluene-d8	98	6.922	6.922	(0.846)	6704	1.00000	1.27(a)
49	Ethyl Methacrylate	69	7.289	7.289	(1.313)	1770	1.00000	0.92(a)
50	Toluene	91	6.978	6.978	(0.853)	6362	1.00000	1.08(a)
51	trans-1,3-Dichloropropene	75	7.199	7.199	(1.297)	1337	1.00000	3.28(aM)
52	2-Hexanone	43	7.218	7.218	(0.882)	3890	2.00000	2.16(a)
53	1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	1192	1.00000	0.86(a)
54	1,3-Dichloropropane	76	7.499	7.499	(0.917)	2645	1.00000	1.05(a)
55	Dibromochloromethane	129	7.690	7.690	(0.940)	991	1.00000	2.58(a)
56	Tetrachloroethene	164	7.454	7.454	(0.911)	1417	1.00000	1.24(a)
57	1,2-Dibromoethane	107	7.788	7.788	(0.952)	1394	1.00000	1.63(a)
58	1-Chlorohexane	55	8.185	8.185	(1.475)	3967	1.00000	3.06(a)
59	Chlorobenzene	112	8.208	8.208	(1.003)	4601	1.00000	1.12(a)
60	1,1,1,2-Tetrachloroethane	131	8.279	8.279	(1.012)	1260	1.00000	0.99(a)
61	Ethylbenzene	106	8.301	8.301	(1.015)	1824	1.00000	0.97(a)
62	m,p-Xylenes	106	8.410	8.410	(1.028)	4529	2.00000	1.95(a)
63	o-Xylene	106	8.747	8.747	(1.069)	2316	1.00000	1.03(a)
64	Styrene	104	8.762	8.762	(1.071)	3506	1.00000	0.96(a)
66	Bromoform	173	8.920	8.920	(1.090)	645	1.00000	4.19(aM)
67	Isopropylbenzene	105	9.062	9.062	(1.108)	4972	1.00000	0.93(a)
68	1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	2094	1.00000	0.93(aM)
$ 69	4-Bromofluorobenzene	95	9.194	9.194	(1.124)	2792	1.00000	1.46(a)
* 70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	132114	50.0000	
71	1,2,3-Trichloropropane	75	9.362	9.362	(0.921)	2024	1.00000	2.36(a)
72	trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	491	1.00000	1.87(aM)
73	n-Propylbenzene	91	9.411	9.411	(0.926)	6148	1.00000	1.02(a)
74	Bromobenzene	156	9.317	9.317	(0.916)	1882	1.00000	1.54(a)
75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	3587	1.00000	0.90(a)
76	2-Chlorotoluene	91	9.482	9.482	(0.933)	4069	1.00000	1.04(a)

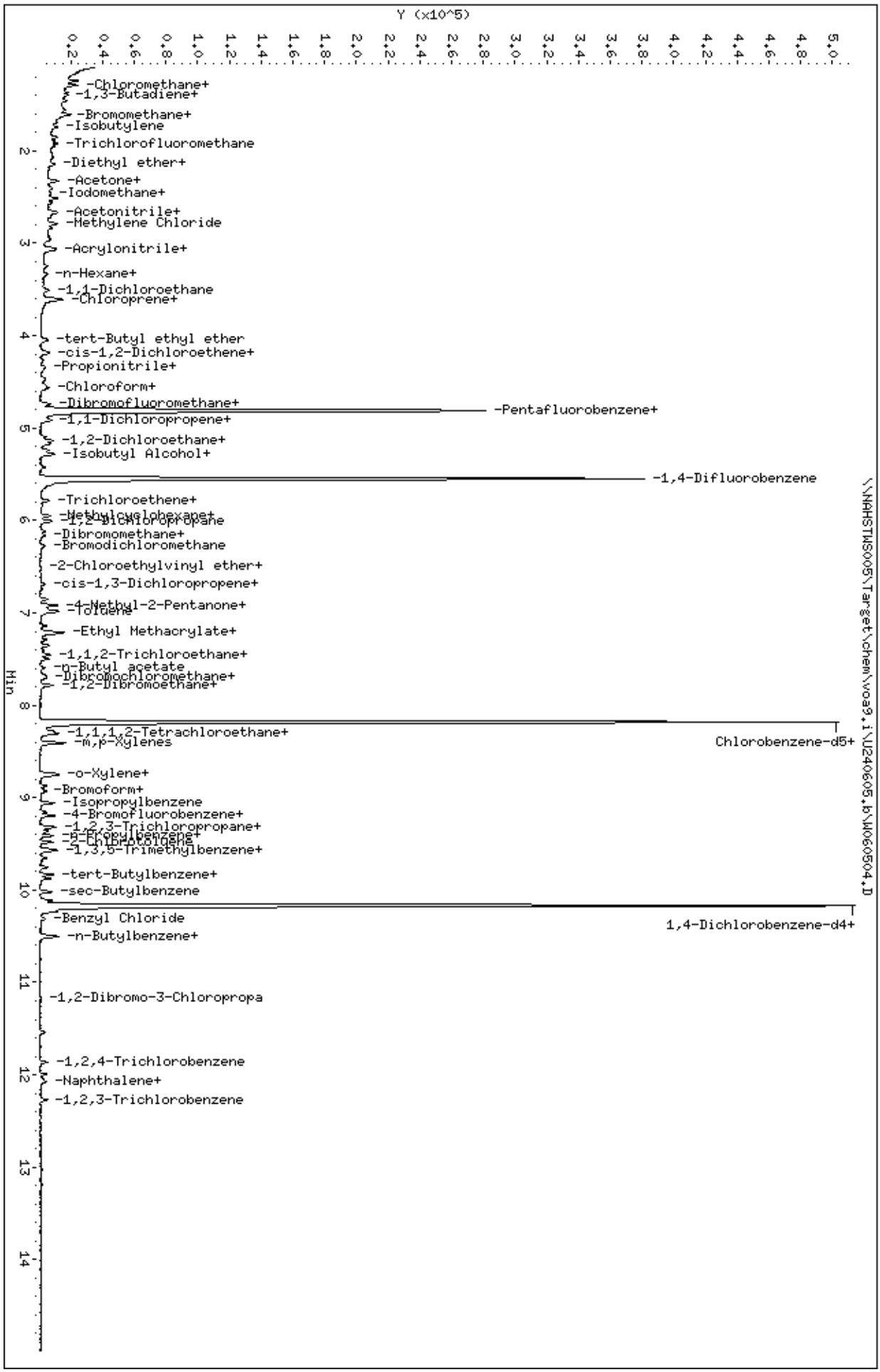
77 4-Chlorotoluene	91	9.576	9.576 (0.942)	4366	1.00000	0.97(a)
78 tert-Butylbenzene	119	9.835	9.835 (0.967)	3518	1.00000	0.97(a)

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060504.D Page 3
Report Date: 21-Jun-2024 17:11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	3805	1.00000	0.93(a)
81	sec-Butylbenzene	105	10.022	10.022	(0.986)	4813	1.00000	1.00(a)
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	3777	1.00000	0.93(a)
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.995)	3046	1.00000	1.09(a)
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	3841	1.00000	1.24(a)
86	Benzyl Chloride	91	10.314	10.314	(1.261)	2454	1.00000	2.78(aM)
87	n-Butylbenzene	91	10.494	10.494	(1.032)	3873	1.00000	2.63(a)
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	3200	1.00000	1.20(a)
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	163	1.00000	2.24(aM)
90	1,2,4-Trichlorobenzene	180	11.863	11.863	(1.167)	1549	1.00000	2.60(aM)
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	953	1.00000	1.26(aM)
92	Naphthalene	128	12.073	12.073	(1.187)	3046	1.00000	2.59(a)
93	1,2,3-Trichlorobenzene	180	12.275	12.275	(1.207)	1449	1.00000	0.95(aM)
146	Methyl acetate	43	2.708	2.708	(0.563)	1979	1.00000	(aM)
138	Freon TF	101	2.330	2.330	(0.484)	1118	1.00000	1.12(a)
141	Cyclohexane	56	4.811	4.811	(1.000)	5721	1.00000	3.38(a)
142	Tetrahydrofuran	42	4.538	4.538	(0.943)	920	2.00000	2.59(aM)
147	Methylcyclohexane	55	5.947	5.947	(1.072)	3457	1.00000	1.01(a)
135	1,4-Dioxane	88	6.172	6.172	(1.283)	475	20.0000	31.50(M)
132	n-Butanol	56	5.835	5.835	(1.213)	851	20.0000	74.16(a)
136	n-Hexane	57	3.338	3.338	(0.694)	1533	1.00000	1.82(Ta)
139	Diethyl ether	59	2.139	2.139	(0.445)	1272	1.00000	1.19(a)
148	Tert-butyl alcohol	59	2.967	2.967	(0.617)	3358	20.0000	35.57
149	Isopropyl alcohol	45	2.558	2.558	(0.532)	2536	20.0000	32.77
156	Diisopropyl ether	45	3.612	3.612	(0.751)	6186	1.00000	1.58(Ta)
162	Butyl acrylate	55	8.736	8.736	(1.068)	2426	1.00000	0.93(a)
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	6558	1.00000	1.98(a)
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	4308	1.00000	1.90(a)
167	Ethanol	45	2.075	2.075	(0.431)	550	20.0000	19.95(M)
172	tert-Butyl formate	59	5.239	5.239	(1.089)	2752	2.00000	2.81(aM)
151	4-Methyl-2-pentanol	45	7.218	7.218	(1.301)	6679	20.0000	70.30
140	1,3-Butadiene	54	1.396	1.396	(0.290)	751	1.00000	1.59(a)
182	Epichlorohydrin	57	6.637	6.637	(1.196)	238	4.00000	4.37(aM)
M 94	1,2-Dichloroethylene (total)	96				3436	2.00000	(a)
130	Ethyl Acetate	43	4.541	4.541	(0.944)	1204	1.00000	(aM)
131	Methyl Acrylate	55	4.373	4.373	(0.909)	2072	1.00000	1.98(aM)
189	n-Butyl acetate	43	7.597	7.597	(0.929)	2204	1.00000	1.12(TaM)
134	Cyclohexanone	55	9.152	9.152	(0.900)	1673	20.0000	12.71(a)
185	Isoprene	39	2.154	2.154	(0.448)	344	1.00000	1.01(aM)
188	Isopropyl acetate	43	5.284	5.284	(0.952)	4470	1.00000	1.37(a)
150	Allyl alcohol	57	3.338	3.338	(0.694)	1533	20.0000	36.58
194	Acetaldehyde	44	1.456	1.456	(0.303)	1886	4.00000	7.29(M)
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	446	1.00000	1.73(aM)
133	Ethyl Acrylate	55	5.947	5.947	(1.236)	3457	1.00000	1.01(aM)
163	Butyl methacrylate	41	9.651	9.651	(0.949)	1854	1.00000	0.56(a)
159	Propylene oxide	43	2.195	2.195	(0.456)	287	2.00000	2.52(aM)
178	Ethylene oxide	44	1.602	1.602	(0.333)	4017	2.00000	7.69(M)
203	2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	1138	1.00000	2.00(aM)
204	Tetrahydrothiophene	60	7.668	7.668	(0.937)	1357	1.00000	1.09(aA)
205	sec-Butyl Ether	57	7.214	7.214	(0.882)	3578	1.00000	1.11(aAM)
187	n-Amyl acetate	43	8.931	8.931	(1.092)	2676	1.00000	1.09(aM)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060504.D
Date : 05-JUN-2024 19:41
Client ID: VSTD001
Sample Info: VSTD001;VSTD0011;1;3
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

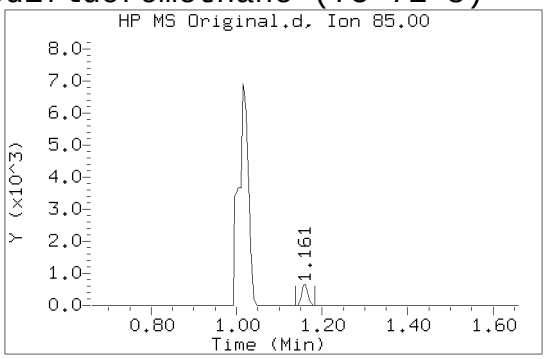
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060504.D
Inj Date : 05-JUN-2024 19:41
InstruID : VOA9.i
LabSampID : VSTD001

Dichlorodifluoromethane (75-71-8)

Reason Code:

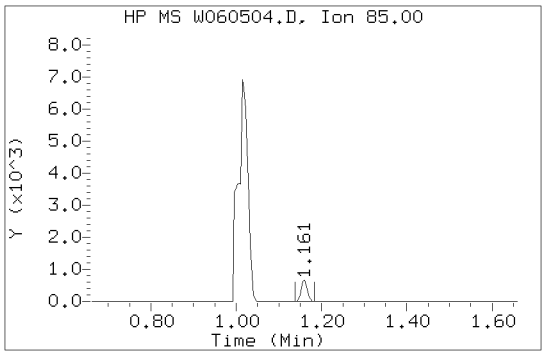
BEFORE

MASS
85
AREA
674
HEIGHT
663
21-Jun-2024
17:11
RUCHA
PATEL



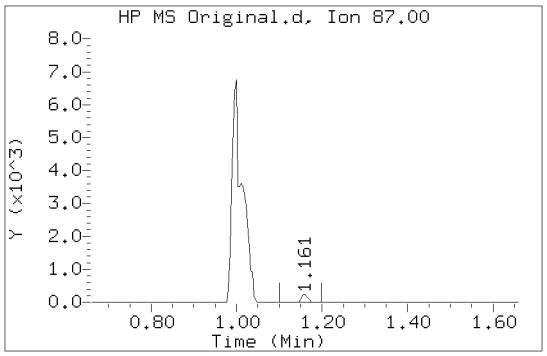
AFTER

MASS
85
AREA
674
HEIGHT
663
21-Jun-2024
17:11
RUCHA
PATEL



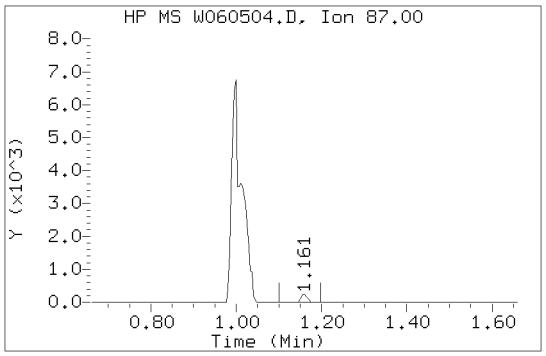
BEFORE

MASS
87
AREA
245
HEIGHT
228
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
87
AREA
245
HEIGHT
228
21-Jun-2024
17:11
RUCHA
PATEL

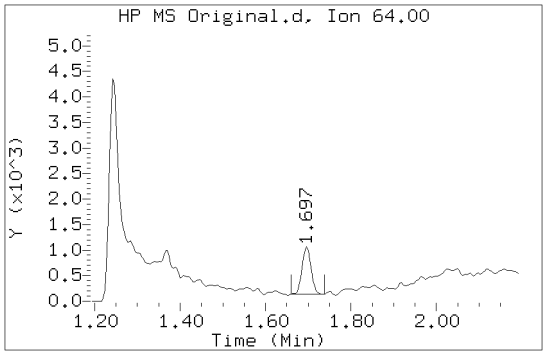


Chloroethane (75-00-3)

Reason Code:

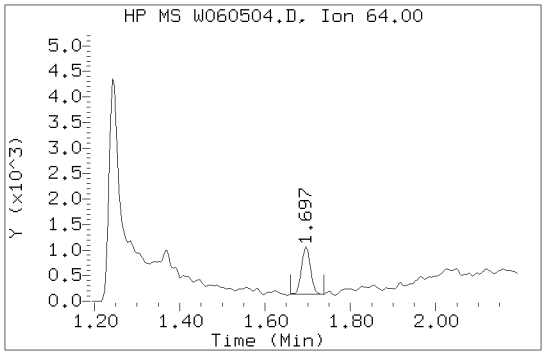
BEFORE

MASS
64
AREA
1372
HEIGHT
934
21-Jun-2024
17:11
RUCHA
PATEL



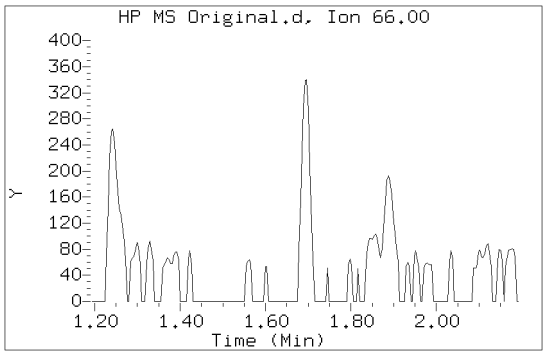
AFTER

MASS
64
AREA
1372
HEIGHT
934
21-Jun-2024
17:11
RUCHA
PATEL



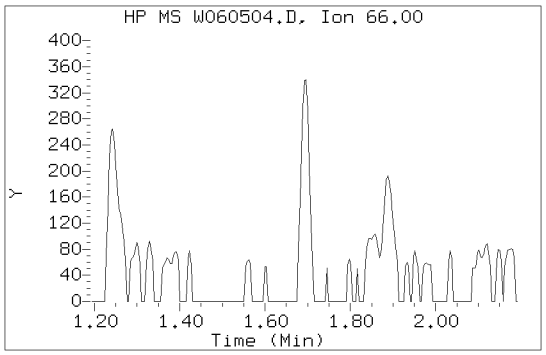
BEFORE

MASS
66
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
66
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



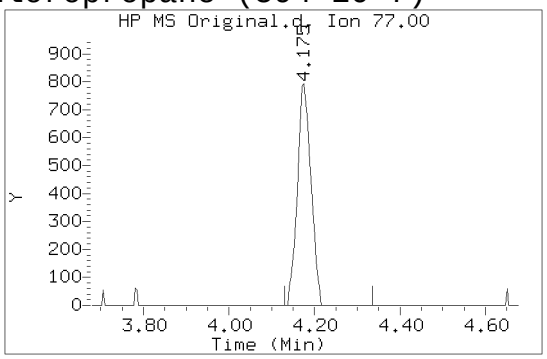
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Inj Date : 05-JUN-2024 19:41
InstruID : VOA9.i
LabSampID : VSTD001

2,2-Dichloropropane (594-20-7)

Reason Code:

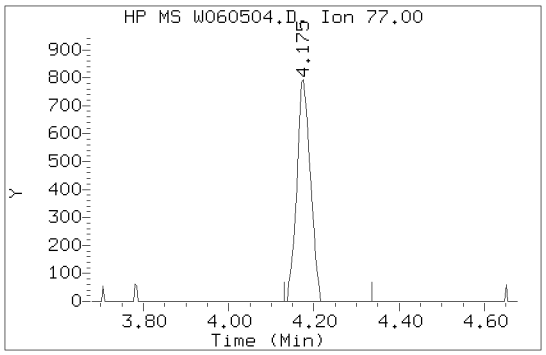
BEFORE

MASS
77
AREA
1781
HEIGHT
793
21-Jun-2024
17:11
RUCHA
PATEL



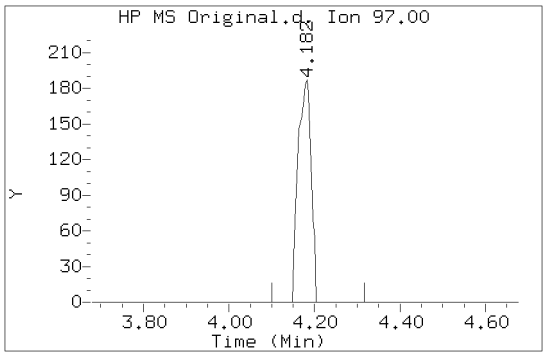
AFTER

MASS
77
AREA
1781
HEIGHT
793
21-Jun-2024
17:11
RUCHA
PATEL



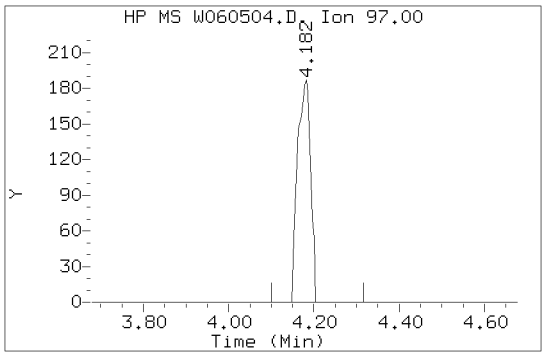
BEFORE

MASS
97
AREA
404
HEIGHT
187
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
97
AREA
404
HEIGHT
187
21-Jun-2024
17:11
RUCHA
PATEL

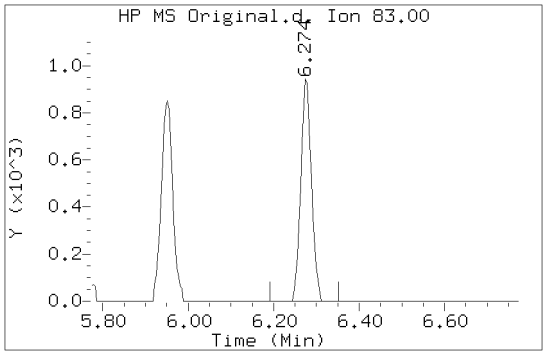


Bromodichloromethane (75-27-4)

Reason Code:

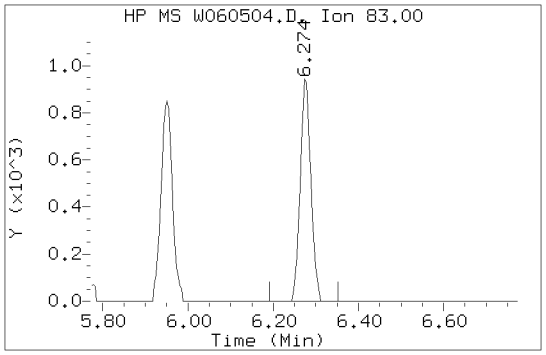
BEFORE

MASS
83
AREA
1664
HEIGHT
944
21-Jun-2024
17:11
RUCHA
PATEL



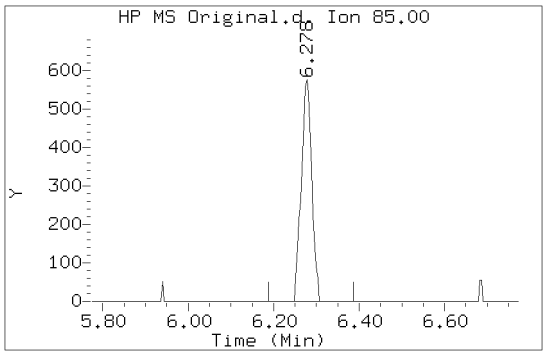
AFTER

MASS
83
AREA
1664
HEIGHT
944
21-Jun-2024
17:11
RUCHA
PATEL



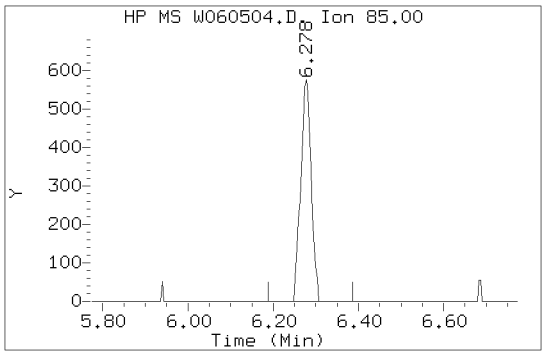
BEFORE

MASS
85
AREA
1007
HEIGHT
577
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
85
AREA
1007
HEIGHT
577
21-Jun-2024
17:11
RUCHA
PATEL



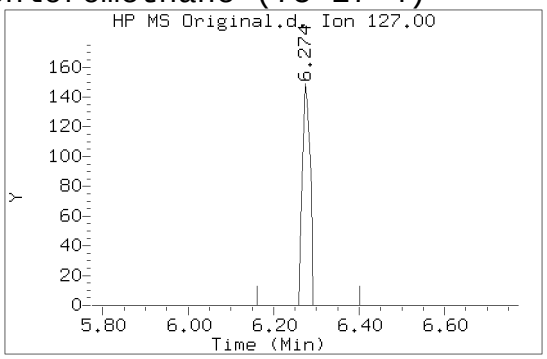
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Inj Date : 05-JUN-2024 19:41
InstruID : VOA9.i
LabSampID : VSTD001

Bromodichloromethane (75-27-4)

Reason Code:

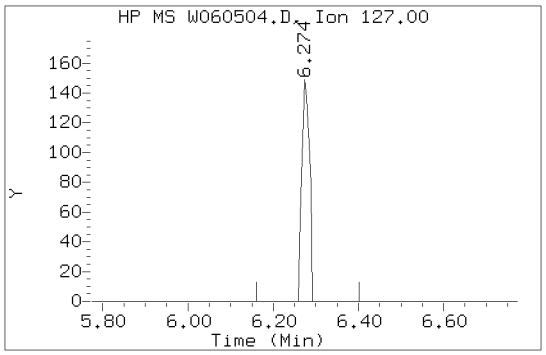
BEFORE

MASS
127
AREA
191
HEIGHT
149
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
127
AREA
191
HEIGHT
149
21-Jun-2024
17:11
RUCHA
PATEL

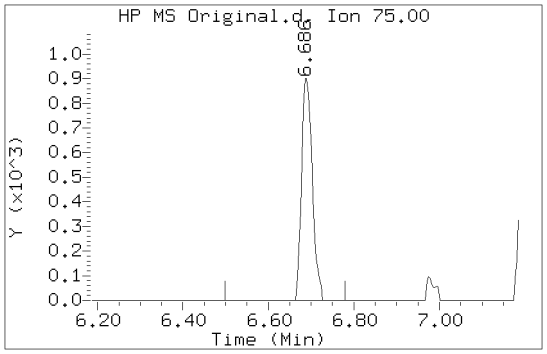


cis-1,3-Dichloropropene (10061-01-5)

Reason Code:

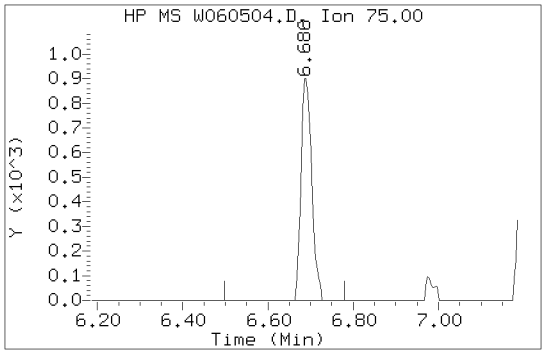
BEFORE

MASS
75
AREA
1599
HEIGHT
900
21-Jun-2024
17:11
RUCHA
PATEL



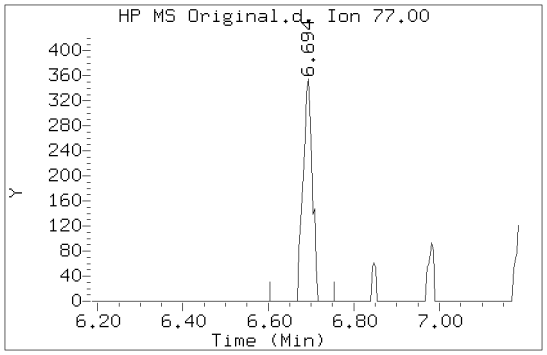
AFTER

MASS
75
AREA
1599
HEIGHT
900
21-Jun-2024
17:11
RUCHA
PATEL



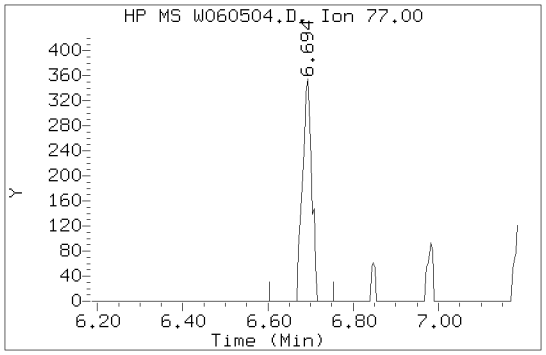
BEFORE

MASS
77
AREA
541
HEIGHT
355
21-Jun-2024
17:11
RUCHA
PATEL



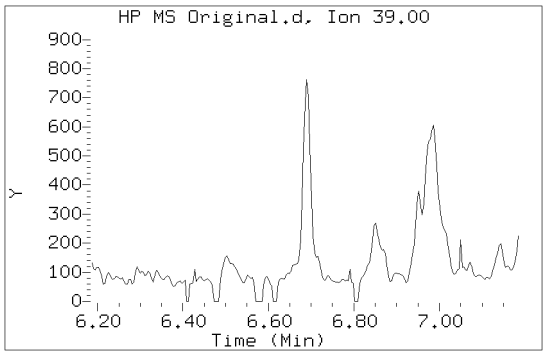
AFTER

MASS
77
AREA
541
HEIGHT
355
21-Jun-2024
17:11
RUCHA
PATEL



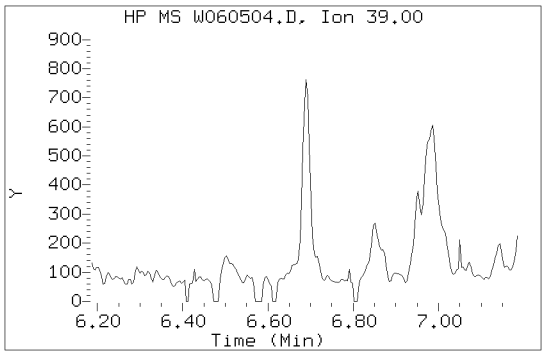
BEFORE

MASS
39
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
39
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



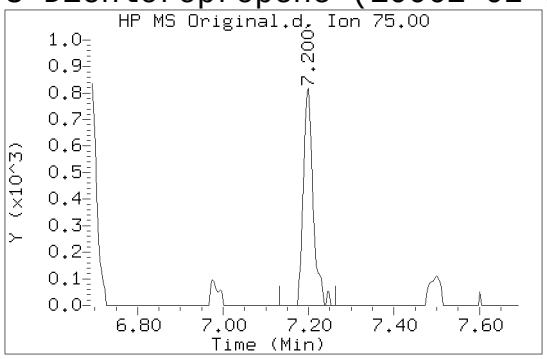
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060504.D
Inj Date : 05-JUN-2024 19:41
InstruID : VOA9.i
LabSampID : VSTD001

trans-1,3-Dichloropropene (10061-02-6)

Reason Code:

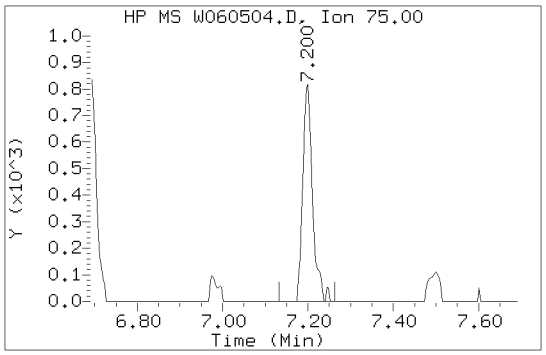
BEFORE

MASS
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AREA
1337
HEIGHT
818
21-Jun-2024
17:11
RUCHA
PATEL



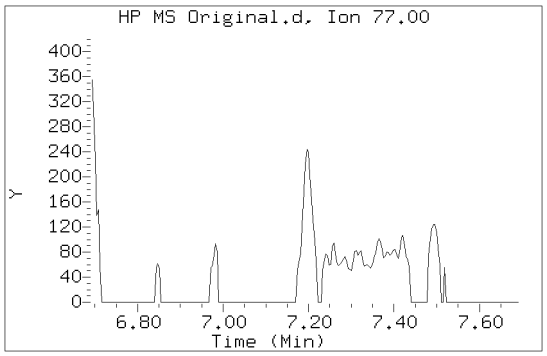
AFTER

MASS
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AREA
1337
HEIGHT
818
21-Jun-2024
17:11
RUCHA
PATEL



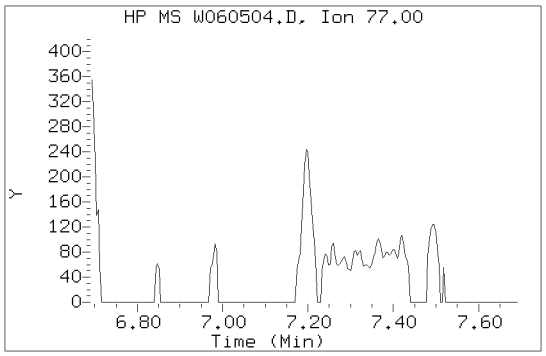
BEFORE

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AREA
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HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



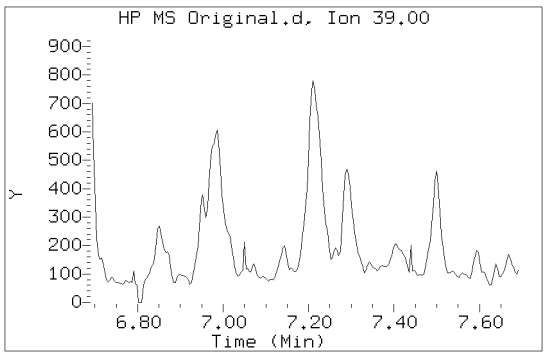
AFTER

MASS
77
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



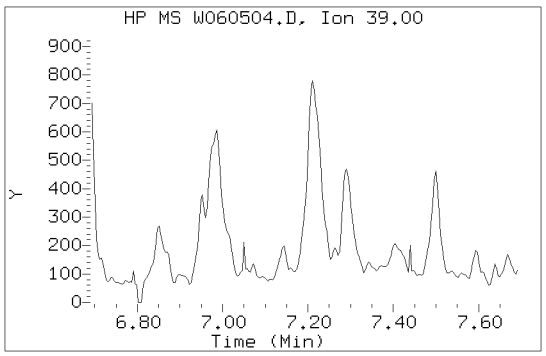
BEFORE

MASS
39
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
39
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

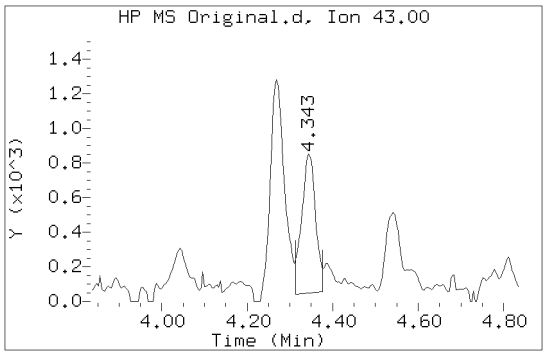


Vinyl Acetate (108-05-4)

Reason Code:

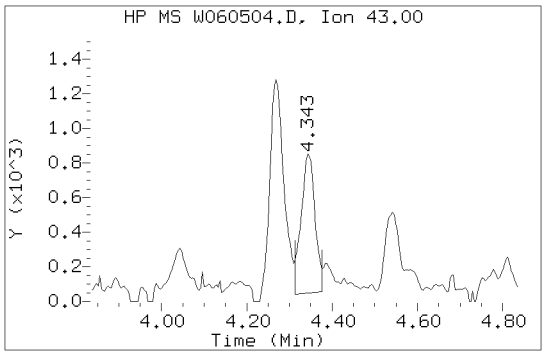
BEFORE

MASS
43
AREA
1876
HEIGHT
805
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
43
AREA
1876
HEIGHT
805
21-Jun-2024
17:11
RUCHA
PATEL



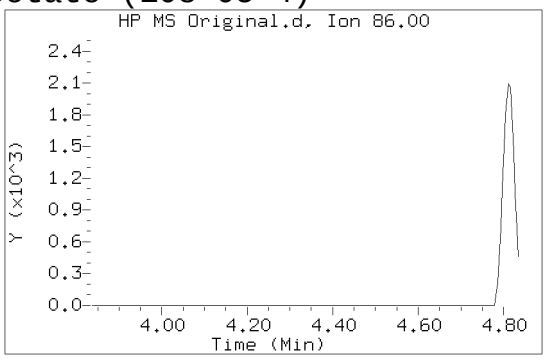
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Inj Date : 05-JUN-2024 19:41
InstruID : VOA9.i
LabSampID : VSTD001

Vinyl Acetate (108-05-4)

Reason Code:

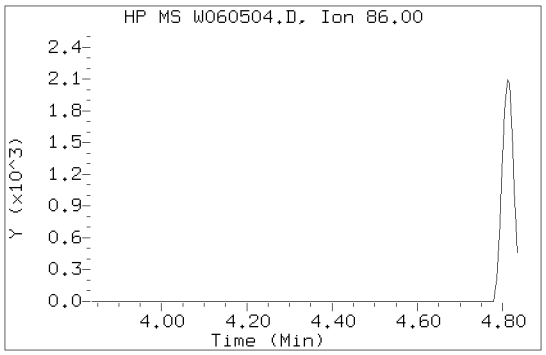
BEFORE

MASS
86
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
86
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

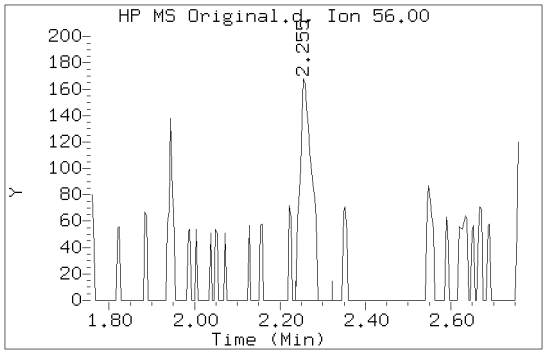


Acrolein (107-02-8)

Reason Code:

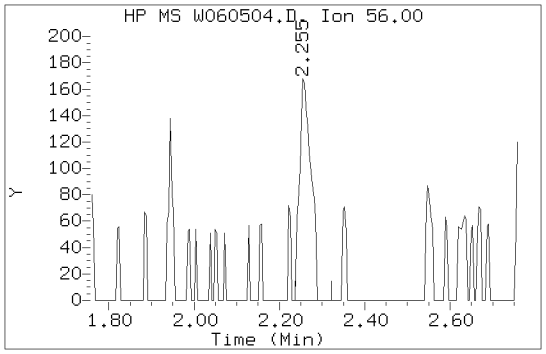
BEFORE

MASS
56
AREA
319
HEIGHT
168
21-Jun-2024
17:11
RUCHA
PATEL



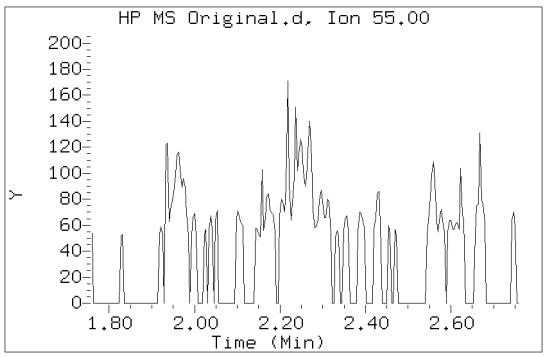
AFTER

MASS
56
AREA
319
HEIGHT
168
21-Jun-2024
17:11
RUCHA
PATEL



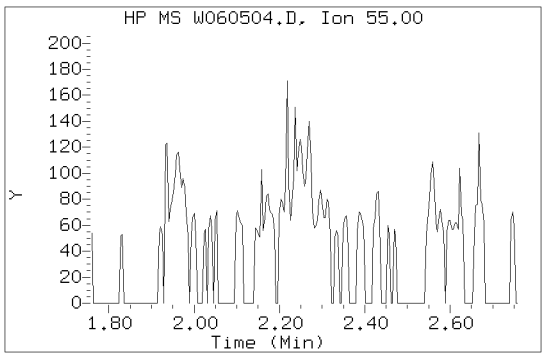
BEFORE

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HEIGHT
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21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
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AREA
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HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

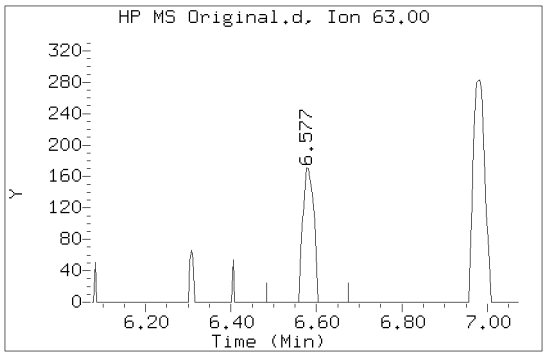


2-Chloroethylvinyl ether (110-75-8)

Reason Code:

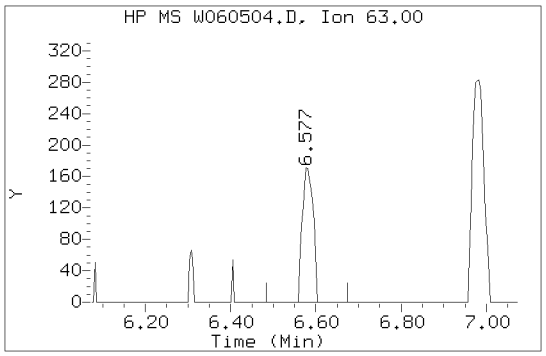
BEFORE

MASS
63
AREA
308
HEIGHT
171
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
63
AREA
308
HEIGHT
171
21-Jun-2024
17:11
RUCHA
PATEL



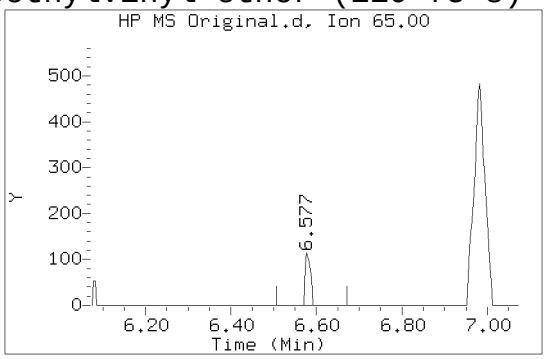
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060504.D
Inj Date : 05-JUN-2024 19:41
InstruID : VOA9.i
LabSampID : VSTD001

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

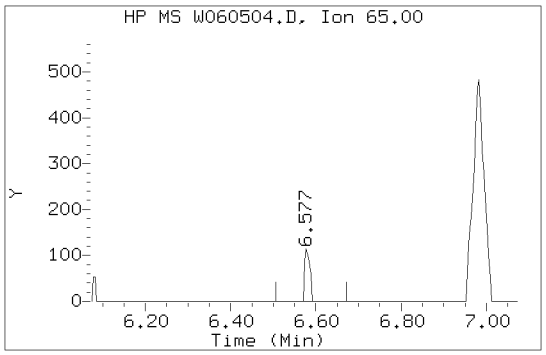
BEFORE

MASS
65
AREA
100
HEIGHT
115
21-Jun-2024
17:11
RUCHA
PATEL



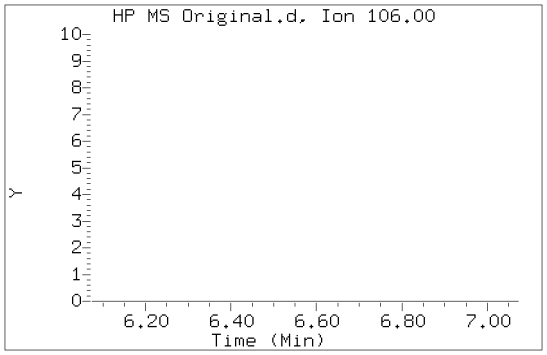
AFTER

MASS
65
AREA
100
HEIGHT
115
21-Jun-2024
17:11
RUCHA
PATEL



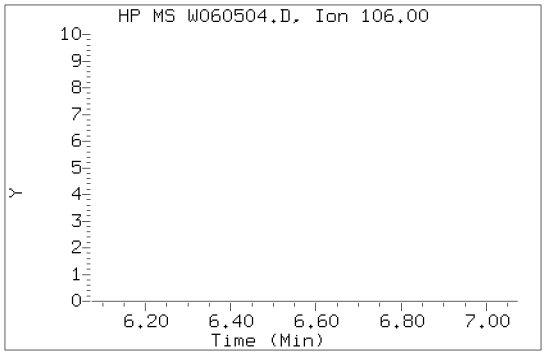
BEFORE

MASS
106
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
106
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

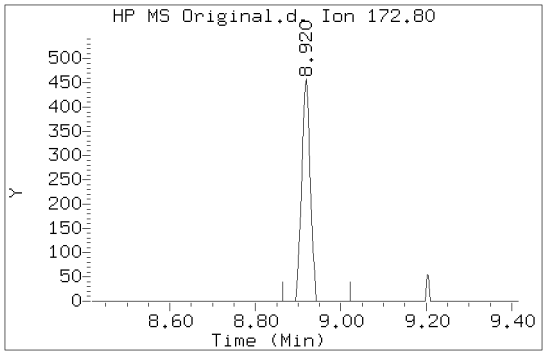


Bromoform (75-25-2)

Reason Code:

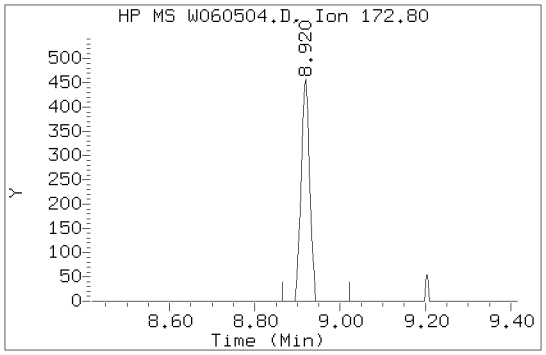
BEFORE

MASS
172.8
AREA
645
HEIGHT
458
21-Jun-2024
17:11
RUCHA
PATEL



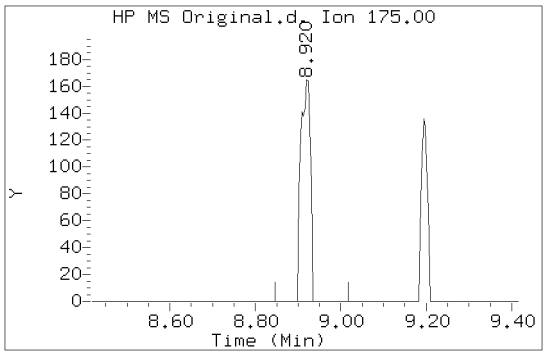
AFTER

MASS
172.8
AREA
645
HEIGHT
458
21-Jun-2024
17:11
RUCHA
PATEL



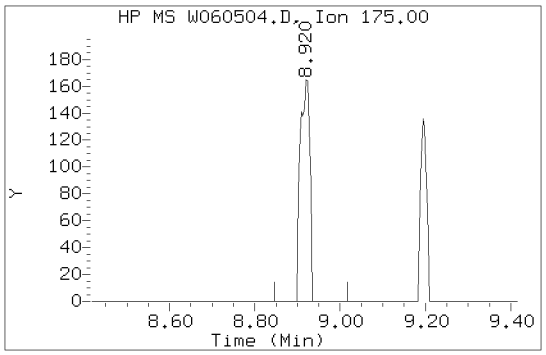
BEFORE

MASS
175
AREA
264
HEIGHT
165
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
175
AREA
264
HEIGHT
165
21-Jun-2024
17:11
RUCHA
PATEL



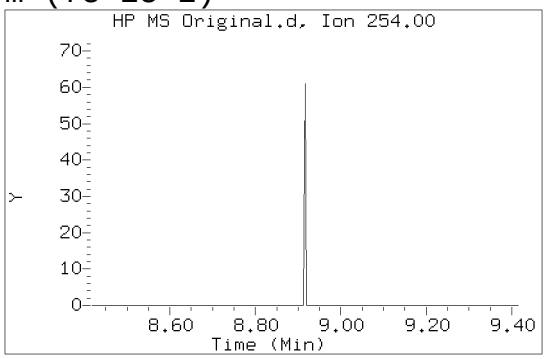
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060504.D
Inj Date : 05-JUN-2024 19:41
InstruID : VOA9.i
LabSampID : VSTD001

Bromoform (75-25-2)

Reason Code:

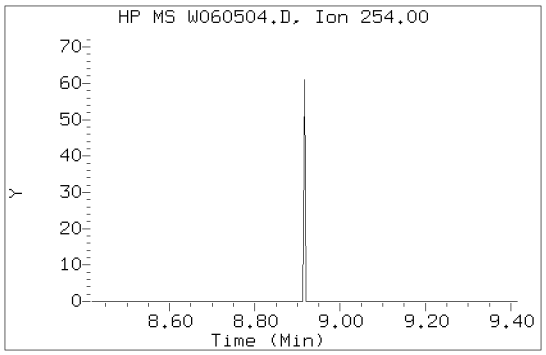
BEFORE

MASS
254
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
254
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

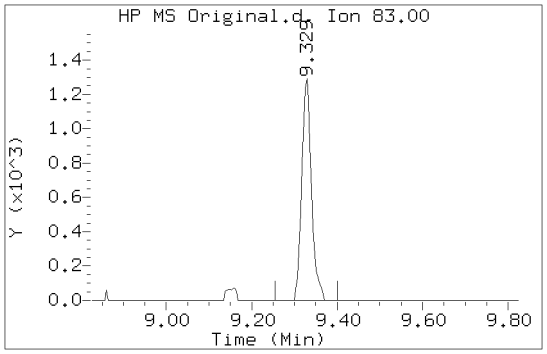


1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

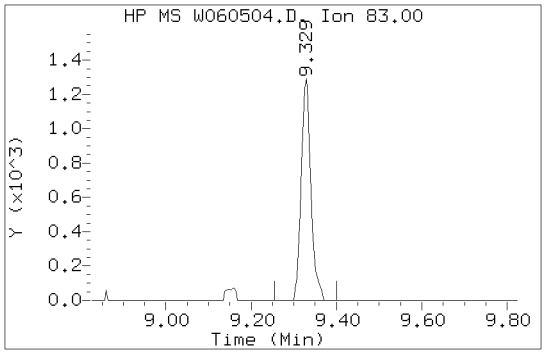
BEFORE

MASS
83
AREA
2094
HEIGHT
1292
21-Jun-2024
17:11
RUCHA
PATEL



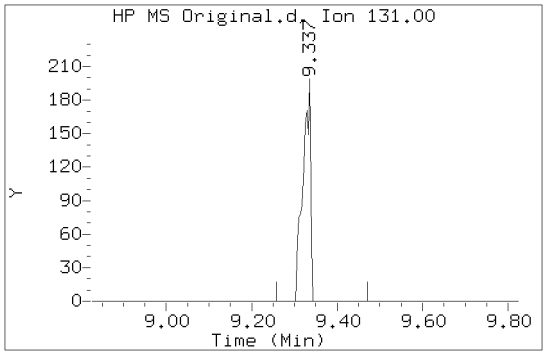
AFTER

MASS
83
AREA
2094
HEIGHT
1292
21-Jun-2024
17:11
RUCHA
PATEL



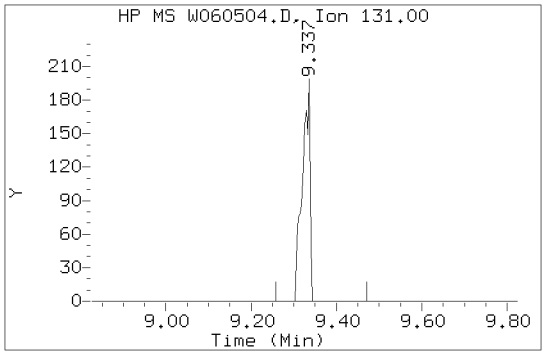
BEFORE

MASS
131
AREA
256
HEIGHT
199
21-Jun-2024
17:11
RUCHA
PATEL



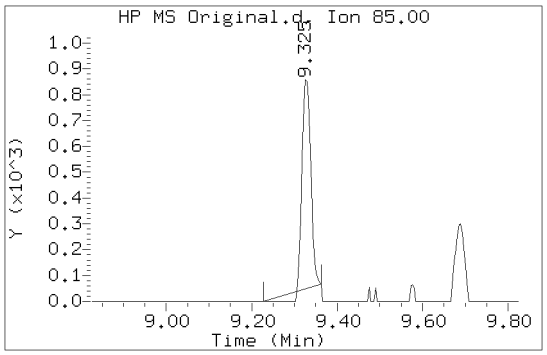
AFTER

MASS
131
AREA
256
HEIGHT
199
21-Jun-2024
17:11
RUCHA
PATEL



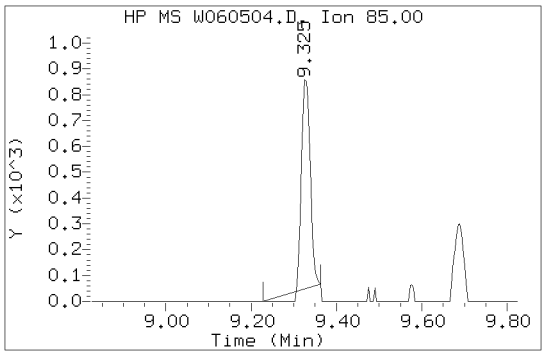
BEFORE

MASS
85
AREA
1105
HEIGHT
808
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
85
AREA
1105
HEIGHT
808
21-Jun-2024
17:11
RUCHA
PATEL



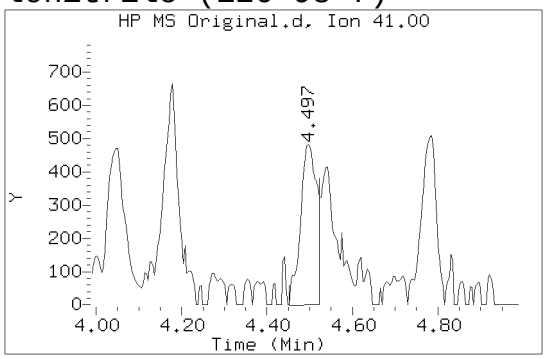
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060504.D
Inj Date : 05-JUN-2024 19:41
InstruID : VOA9.i
LabSampID : VSTD001

Methacrylonitrile (126-98-7)

Reason Code:

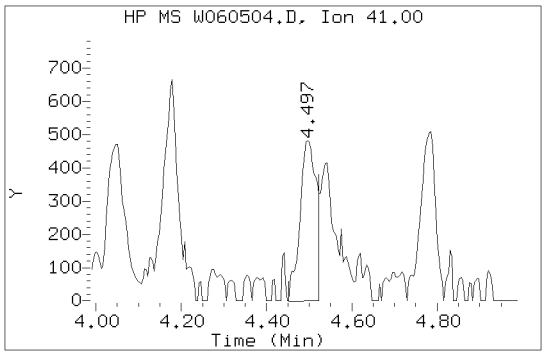
BEFORE

MASS
41
AREA
1301
HEIGHT
482
21-Jun-2024
17:11
RUCHA
PATEL



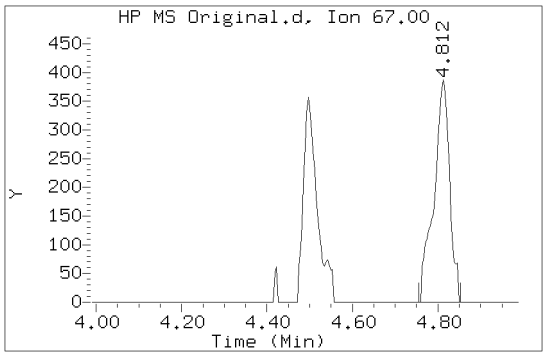
AFTER

MASS
41
AREA
1301
HEIGHT
482
21-Jun-2024
17:11
RUCHA
PATEL



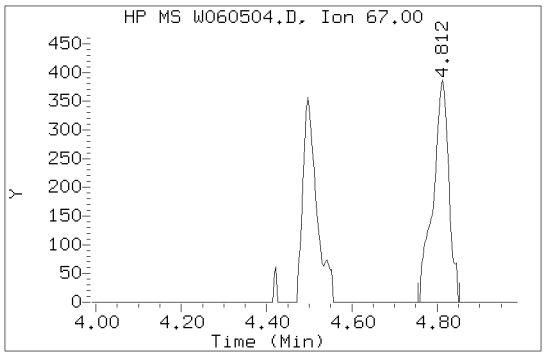
BEFORE

MASS
67
AREA
983
HEIGHT
387
21-Jun-2024
17:11
RUCHA
PATEL



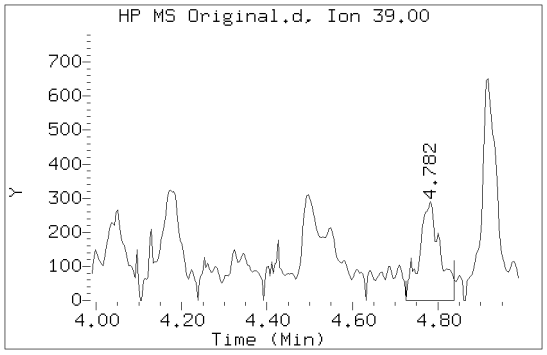
AFTER

MASS
67
AREA
983
HEIGHT
387
21-Jun-2024
17:11
RUCHA
PATEL



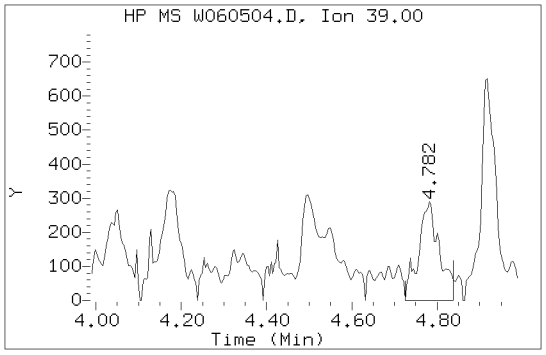
BEFORE

MASS
39
AREA
985
HEIGHT
289
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
39
AREA
985
HEIGHT
289
21-Jun-2024
17:11
RUCHA
PATEL

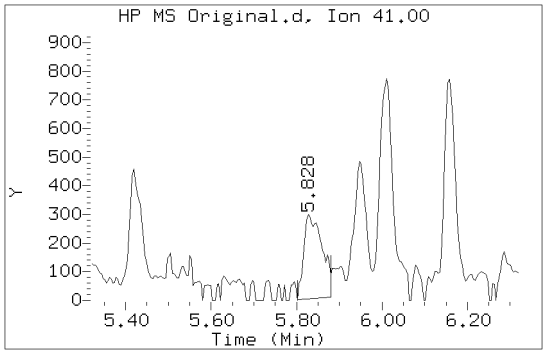


Methyl Methacrylate (80-62-6)

Reason Code:

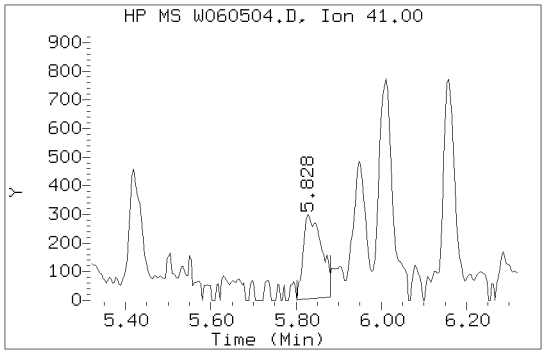
BEFORE

MASS
41
AREA
884
HEIGHT
294
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
41
AREA
884
HEIGHT
294
21-Jun-2024
17:11
RUCHA
PATEL



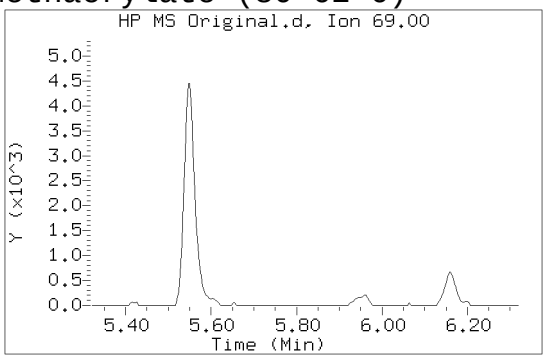
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060504.D
Inj Date : 05-JUN-2024 19:41
InstruID : VOA9.i
LabSampID : VSTD001

Methyl Methacrylate (80-62-6)

Reason Code:

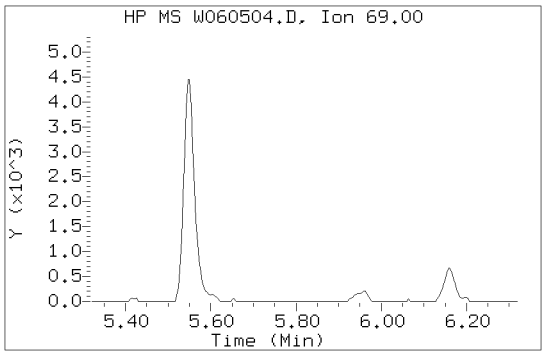
BEFORE

MASS
69
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



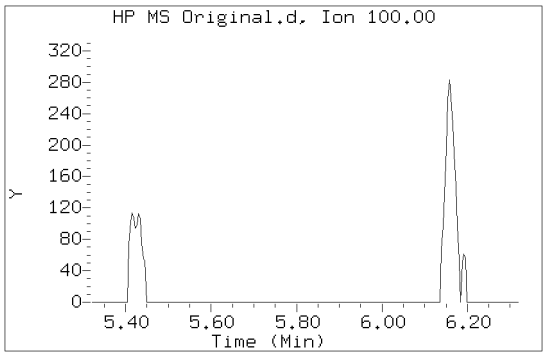
AFTER

MASS
69
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



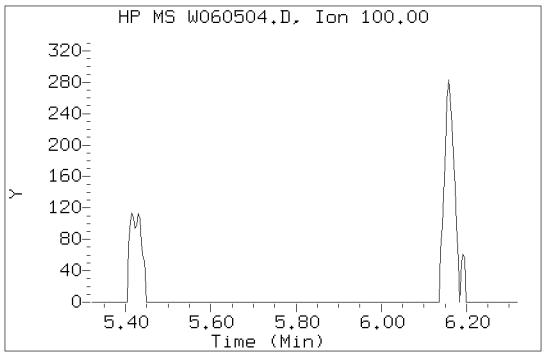
BEFORE

MASS
100
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
100
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

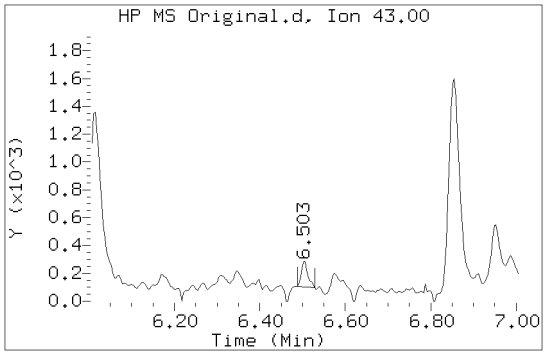


2-Nitropropane (79-46-9)

Reason Code:

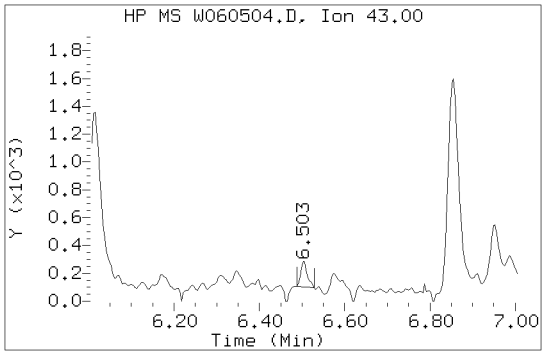
BEFORE

MASS
43
AREA
201
HEIGHT
181
21-Jun-2024
17:11
RUCHA
PATEL



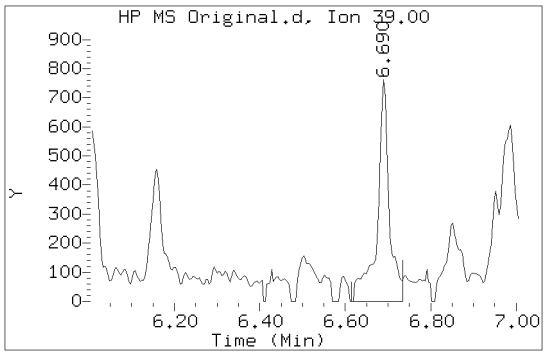
AFTER

MASS
43
AREA
201
HEIGHT
181
21-Jun-2024
17:11
RUCHA
PATEL



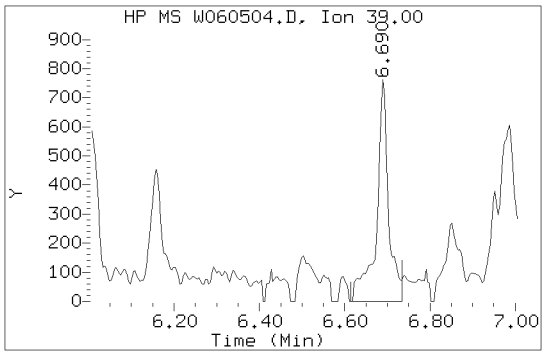
BEFORE

MASS
39
AREA
1501
HEIGHT
762
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
39
AREA
1501
HEIGHT
762
21-Jun-2024
17:11
RUCHA
PATEL



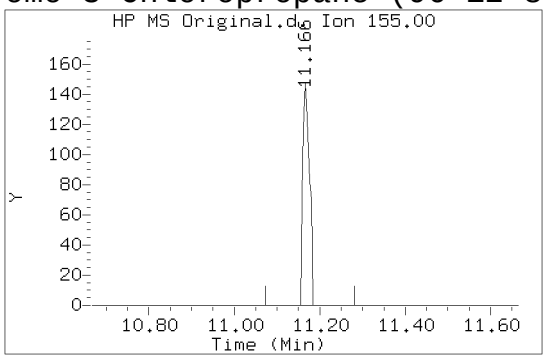
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060504.D
Inj Date : 05-JUN-2024 19:41
InstruID : VOA9.i
LabSampID : VSTD001

1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

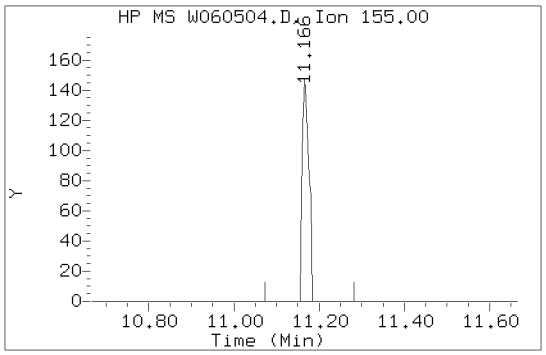
BEFORE

MASS
155
AREA
163
HEIGHT
147
21-Jun-2024
17:11
RUCHA
PATEL



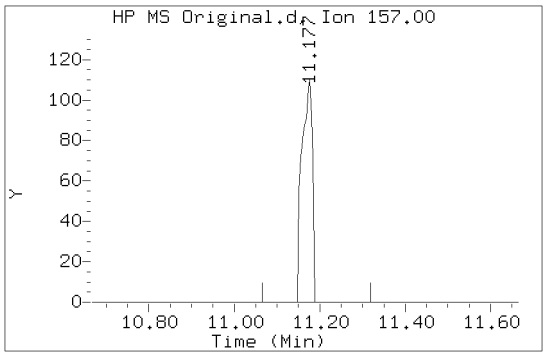
AFTER

MASS
155
AREA
163
HEIGHT
147
21-Jun-2024
17:11
RUCHA
PATEL



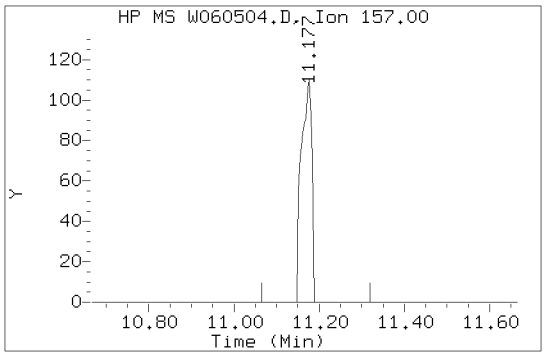
BEFORE

MASS
157
AREA
190
HEIGHT
110
21-Jun-2024
17:11
RUCHA
PATEL



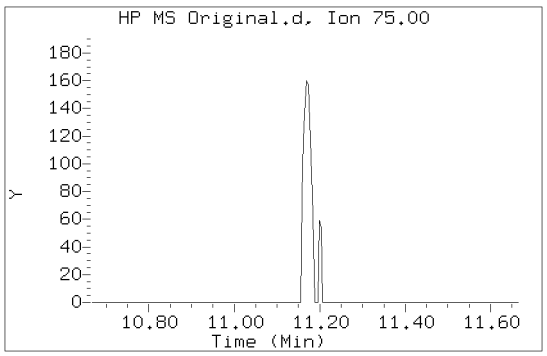
AFTER

MASS
157
AREA
190
HEIGHT
110
21-Jun-2024
17:11
RUCHA
PATEL



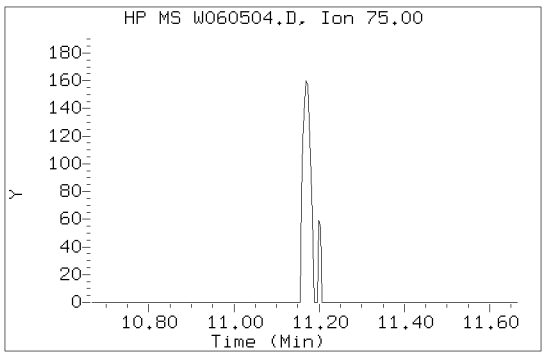
BEFORE

MASS
75
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
75
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

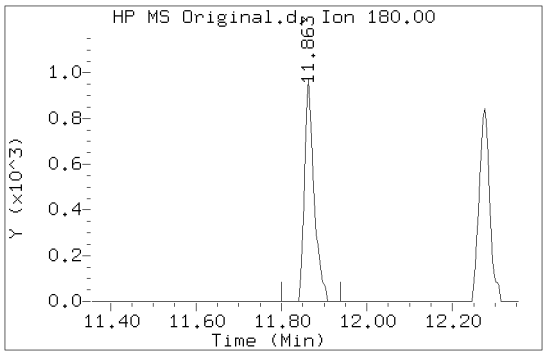


1,2,4-Trichlorobenzene (120-82-1)

Reason Code:

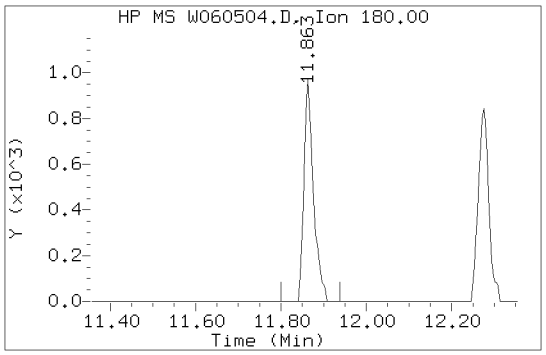
BEFORE

MASS
180
AREA
1549
HEIGHT
970
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
180
AREA
1549
HEIGHT
970
21-Jun-2024
17:11
RUCHA
PATEL



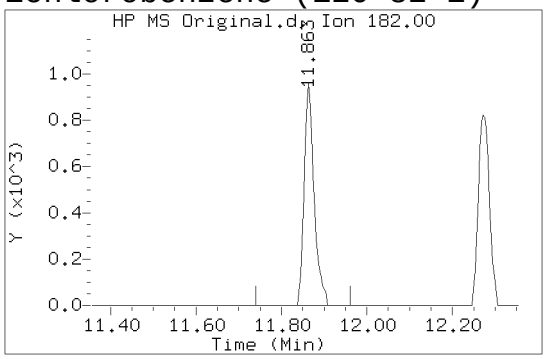
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Inj Date : 05-JUN-2024 19:41
InstruID : VOA9.i
LabSampID : VSTD001

1,2,4-Trichlorobenzene (120-82-1)

Reason Code:

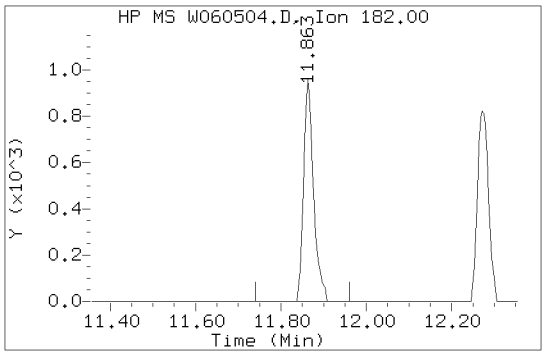
BEFORE

MASS
182
AREA
1594
HEIGHT
958
21-Jun-2024
17:11
RUCHA
PATEL



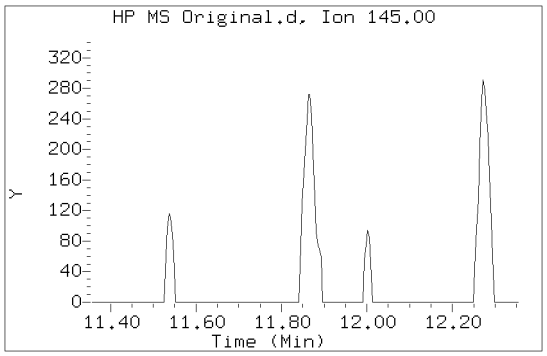
AFTER

MASS
182
AREA
1594
HEIGHT
958
21-Jun-2024
17:11
RUCHA
PATEL



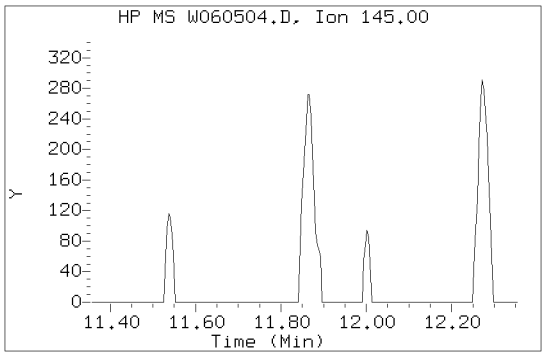
BEFORE

MASS
145
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
145
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

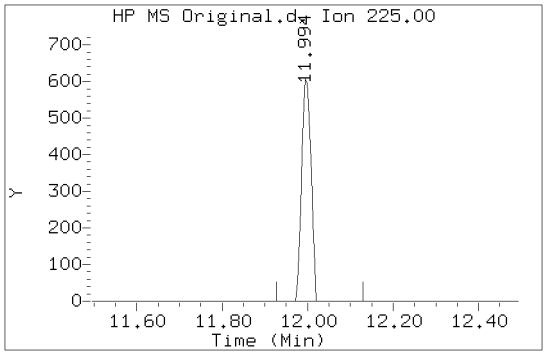


Hexachlorobutadiene (87-68-3)

Reason Code:

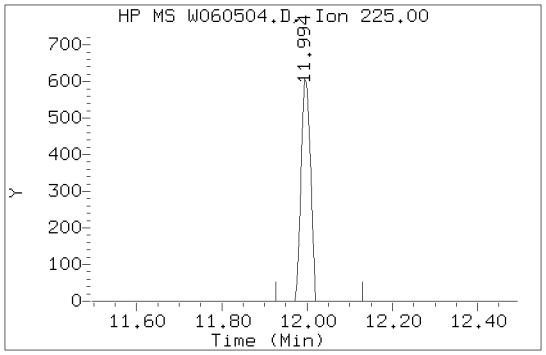
BEFORE

MASS
225
AREA
953
HEIGHT
607
21-Jun-2024
17:11
RUCHA
PATEL



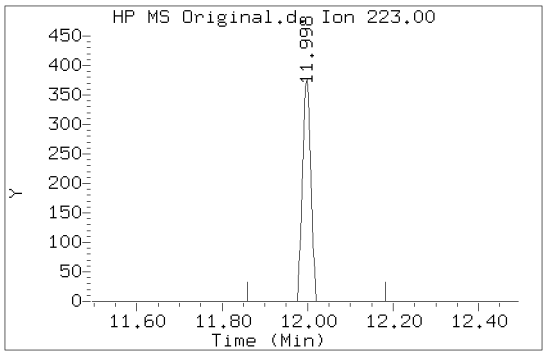
AFTER

MASS
225
AREA
953
HEIGHT
607
21-Jun-2024
17:11
RUCHA
PATEL



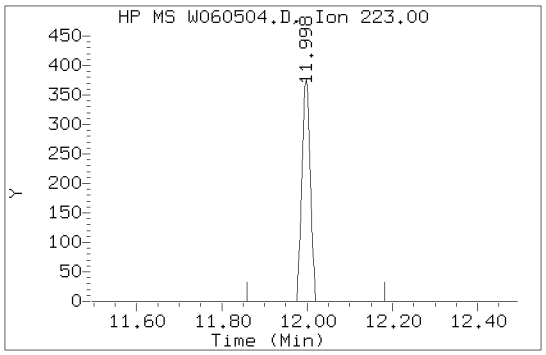
BEFORE

MASS
223
AREA
525
HEIGHT
376
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
223
AREA
525
HEIGHT
376
21-Jun-2024
17:11
RUCHA
PATEL



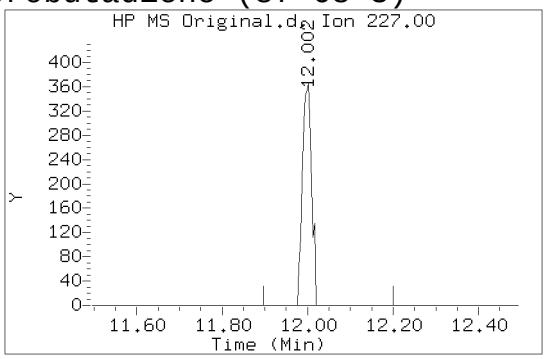
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Inj Date : 05-JUN-2024 19:41
InstruID : VOA9.i
LabSampID : VSTD001

Hexachlorobutadiene (87-68-3)

Reason Code:

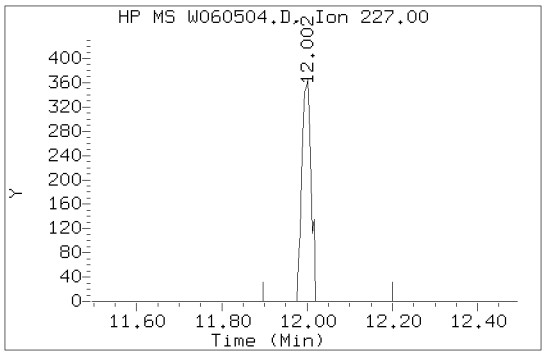
BEFORE

MASS
227
AREA
563
HEIGHT
365
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
227
AREA
563
HEIGHT
365
21-Jun-2024
17:11
RUCHA
PATEL

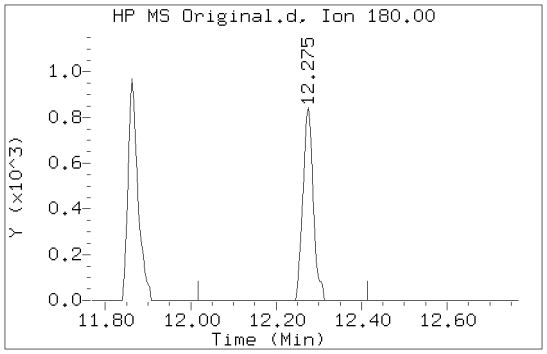


1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

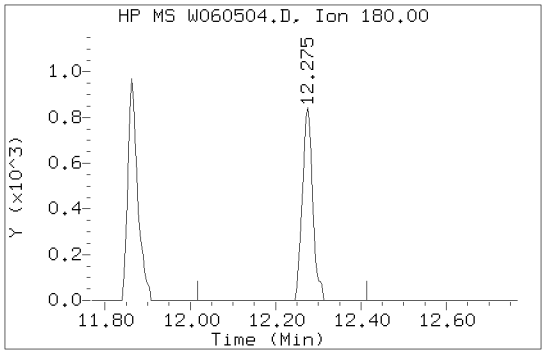
BEFORE

MASS
180
AREA
1449
HEIGHT
845
21-Jun-2024
17:11
RUCHA
PATEL



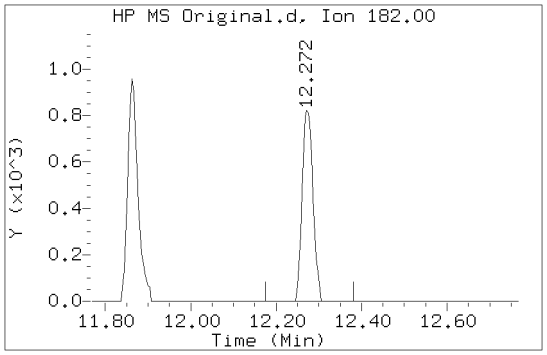
AFTER

MASS
180
AREA
1449
HEIGHT
845
21-Jun-2024
17:11
RUCHA
PATEL



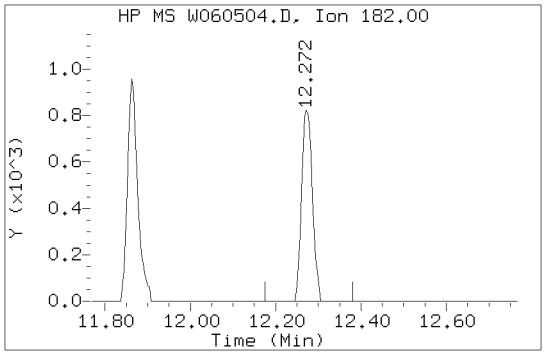
BEFORE

MASS
182
AREA
1484
HEIGHT
822
21-Jun-2024
17:11
RUCHA
PATEL



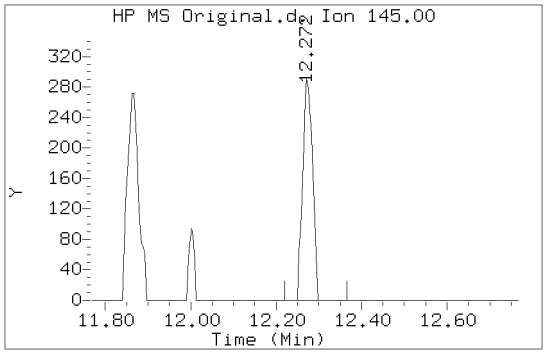
AFTER

MASS
182
AREA
1484
HEIGHT
822
21-Jun-2024
17:11
RUCHA
PATEL



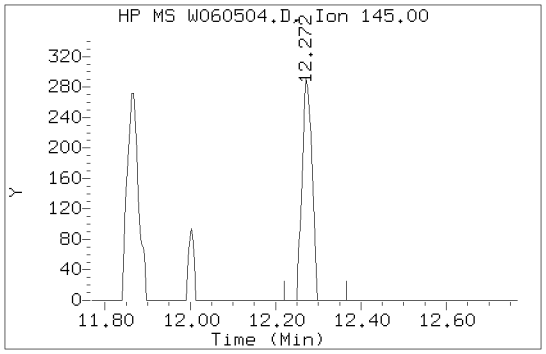
BEFORE

MASS
145
AREA
480
HEIGHT
291
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
145
AREA
480
HEIGHT
291
21-Jun-2024
17:11
RUCHA
PATEL



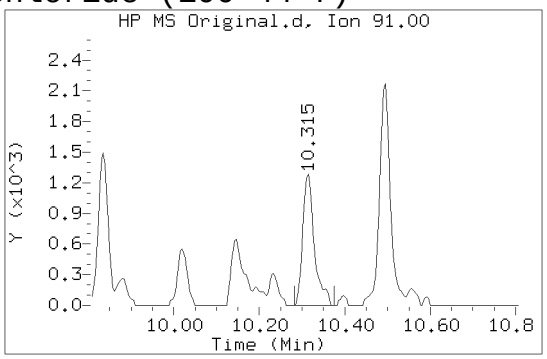
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060504.D
Inj Date : 05-JUN-2024 19:41
InstruID : VOA9.i
LabSampID : VSTD001

Benzyl Chloride (100-44-7)

Reason Code:

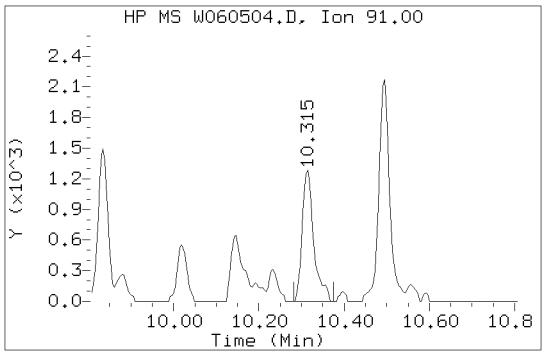
BEFORE

MASS
91
AREA
2454
HEIGHT
1286
21-Jun-2024
17:11
RUCHA
PATEL



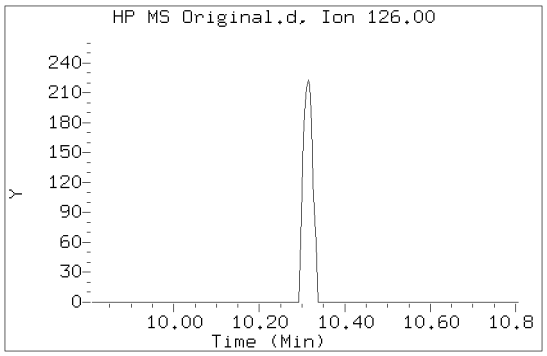
AFTER

MASS
91
AREA
2454
HEIGHT
1286
21-Jun-2024
17:11
RUCHA
PATEL



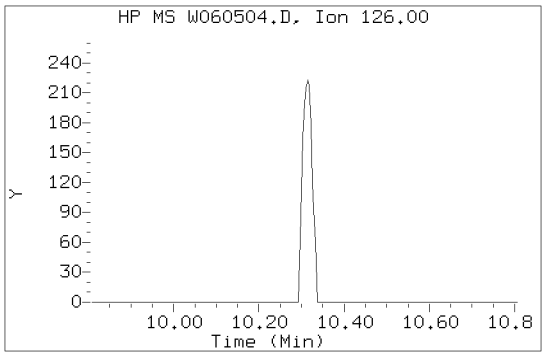
BEFORE

MASS
126
AREA
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HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



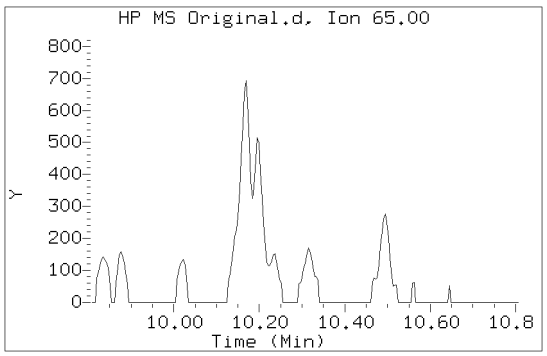
AFTER

MASS
126
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



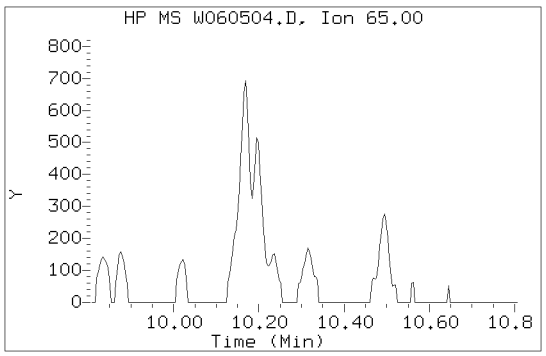
BEFORE

MASS
65
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
65
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

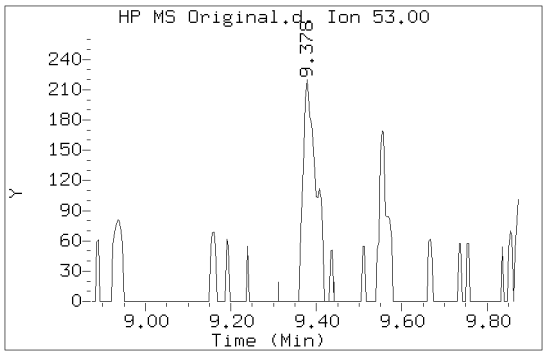


trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

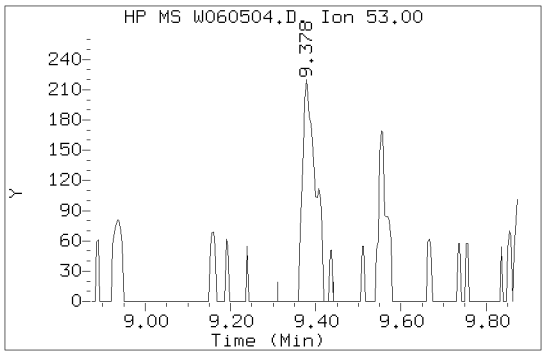
BEFORE

MASS
53
AREA
491
HEIGHT
220
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
53
AREA
491
HEIGHT
220
21-Jun-2024
17:11
RUCHA
PATEL



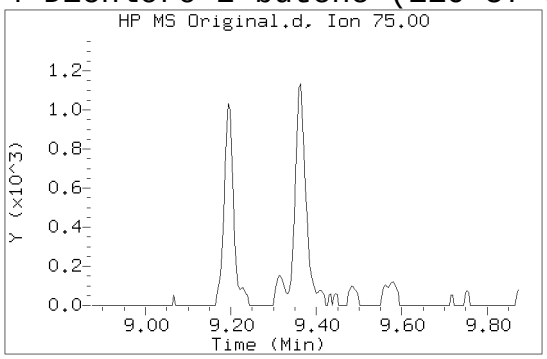
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Inj Date : 05-JUN-2024 19:41
InstruID : VOA9.i
LabSampID : VSTD001

trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

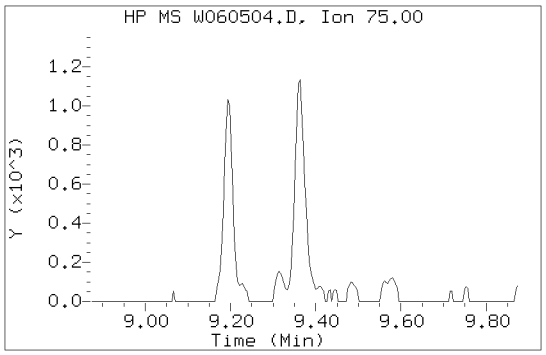
BEFORE

MASS
75
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
75
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

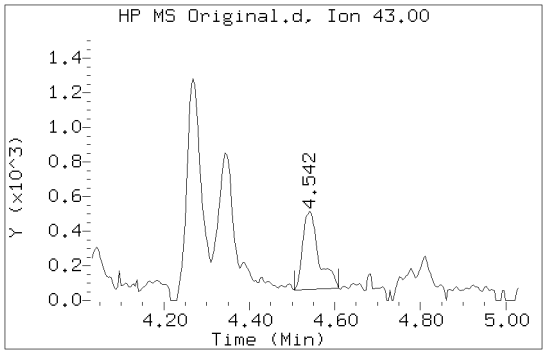


Ethyl Acetate (141-78-6)

Reason Code:

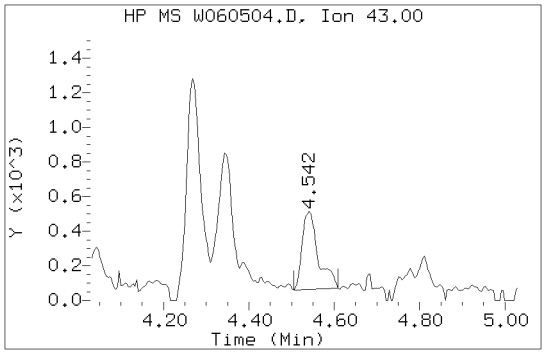
BEFORE

MASS
43
AREA
1204
HEIGHT
451
21-Jun-2024
17:11
RUCHA
PATEL



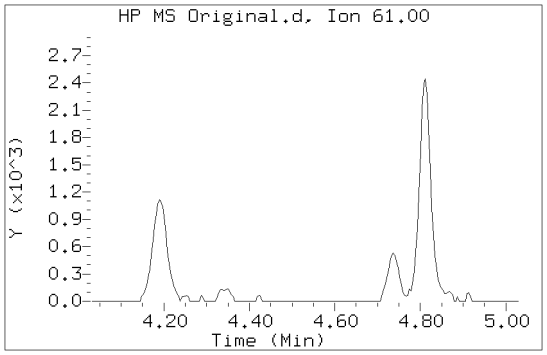
AFTER

MASS
43
AREA
1204
HEIGHT
451
21-Jun-2024
17:11
RUCHA
PATEL



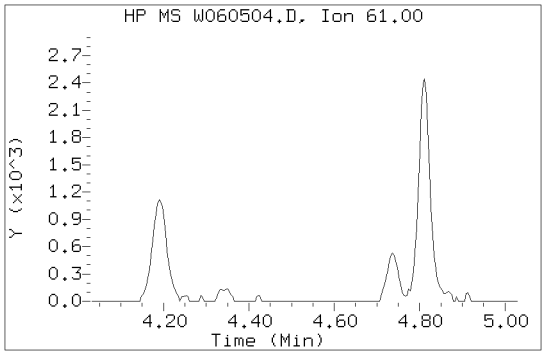
BEFORE

MASS
61
AREA
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HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



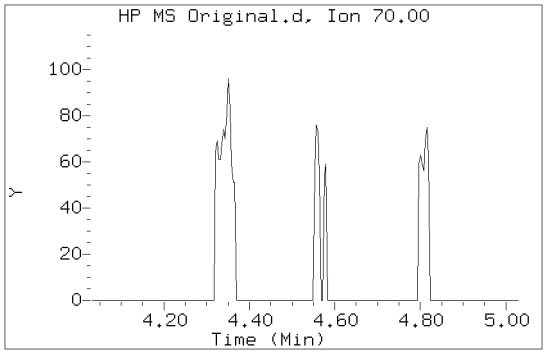
AFTER

MASS
61
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



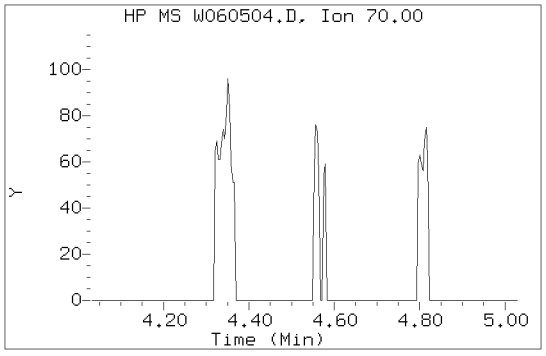
BEFORE

MASS
70
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
70
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

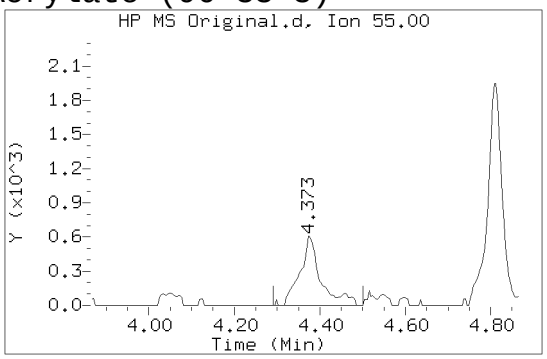


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Inj Date : 05-JUN-2024 19:41
InstruID : VOA9.i
LabSampID : VSTD001

Methyl Acrylate (96-33-3)

BEFORE

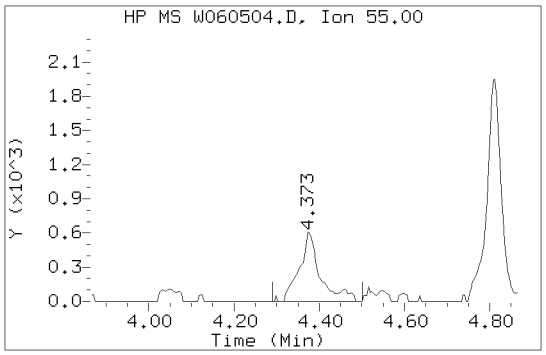
MASS
55
AREA
2072
HEIGHT
606
21-Jun-2024
17:11
RUCHA
PATEL



Reason Code:

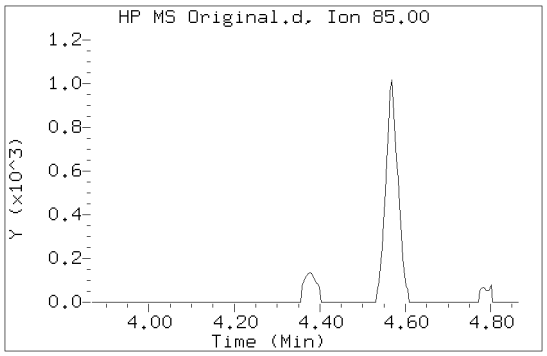
AFTER

MASS
55
AREA
2072
HEIGHT
606
21-Jun-2024
17:11
RUCHA
PATEL



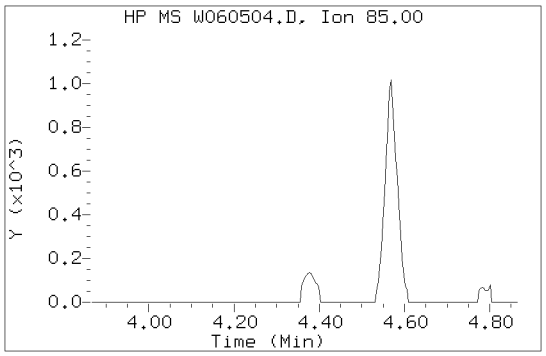
BEFORE

MASS
85
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

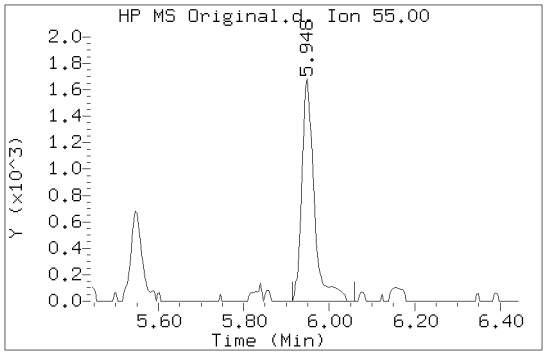
MASS
85
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



Ethyl Acrylate (140-88-5)

BEFORE

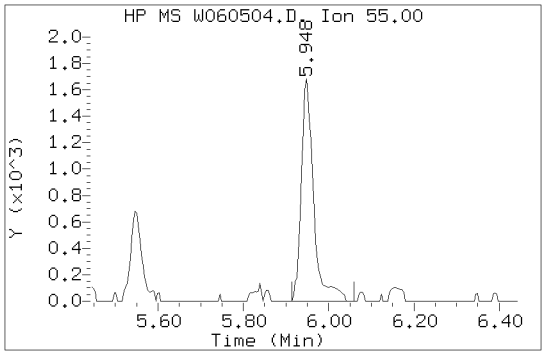
MASS
55
AREA
3457
HEIGHT
1682
21-Jun-2024
17:11
RUCHA
PATEL



Reason Code:

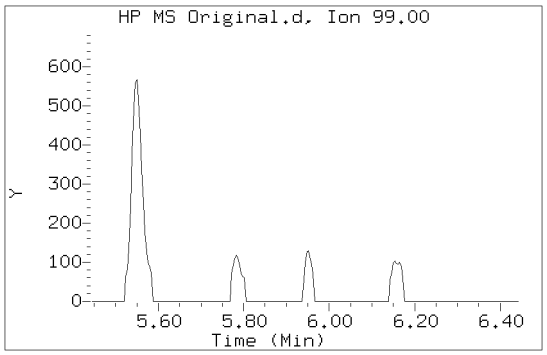
AFTER

MASS
55
AREA
3457
HEIGHT
1682
21-Jun-2024
17:11
RUCHA
PATEL



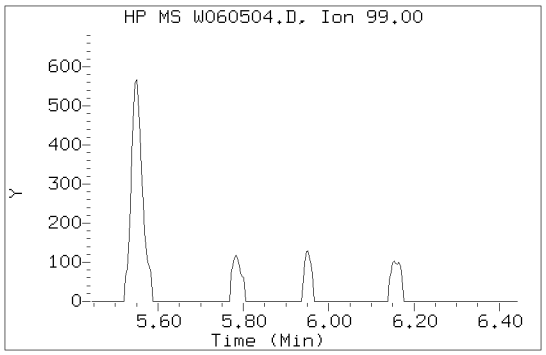
BEFORE

MASS
99
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
99
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

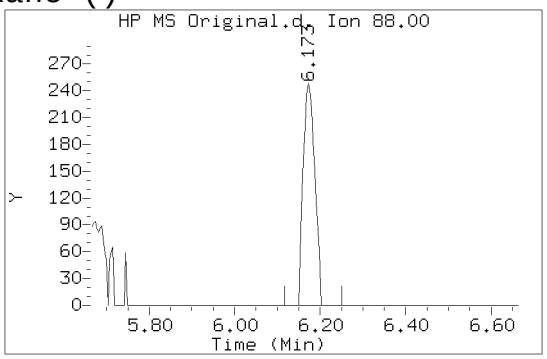


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Inj Date : 05-JUN-2024 19:41
InstruID : VOA9.i
LabSampID : VSTD001

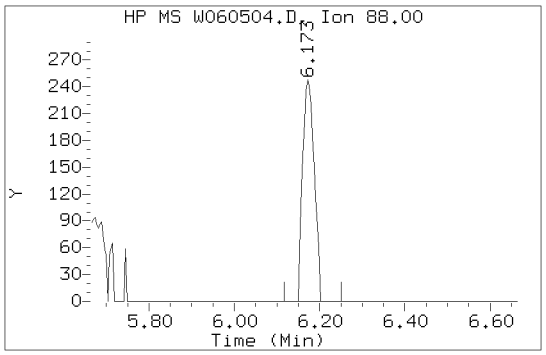
1,4-Dioxane ()

Reason Code:

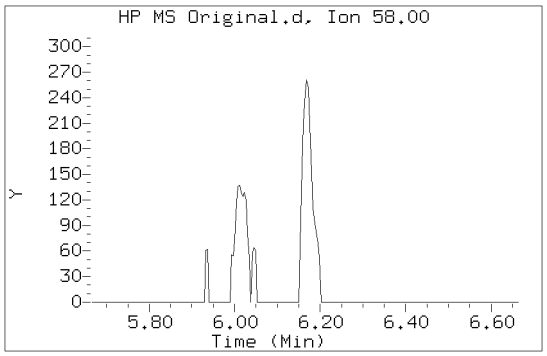
BEFORE
MASS
88
AREA
475
HEIGHT
248
21-Jun-2024
17:11
RUCHA
PATEL



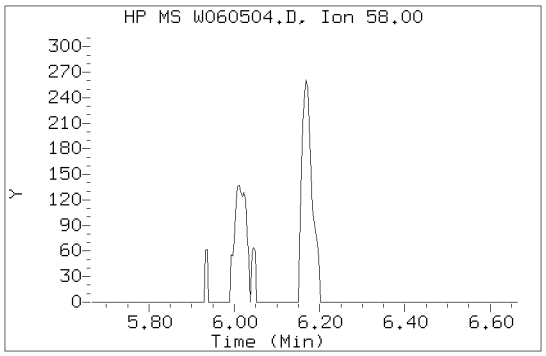
AFTER
MASS
88
AREA
475
HEIGHT
248
21-Jun-2024
17:11
RUCHA
PATEL



BEFORE
MASS
58
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



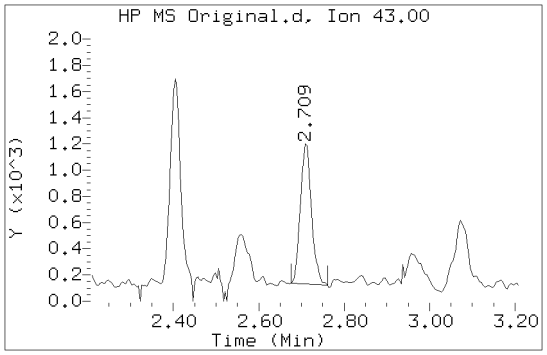
AFTER
MASS
58
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



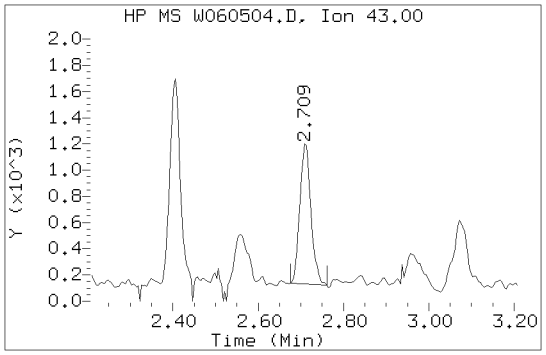
Methyl acetate (79-20-9)

Reason Code:

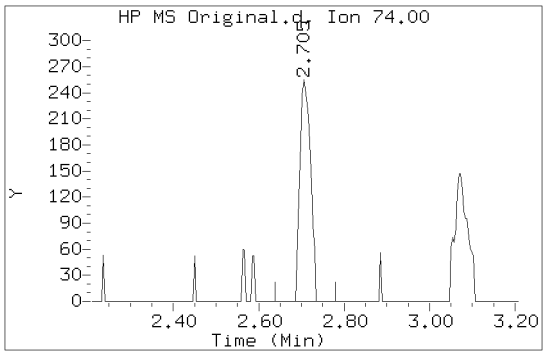
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MASS
43
AREA
1979
HEIGHT
1069
21-Jun-2024
17:11
RUCHA
PATEL



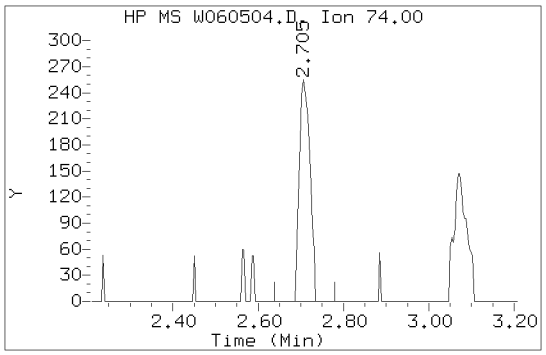
AFTER
MASS
43
AREA
1979
HEIGHT
1069
21-Jun-2024
17:11
RUCHA
PATEL



BEFORE
MASS
74
AREA
452
HEIGHT
255
21-Jun-2024
17:11
RUCHA
PATEL



AFTER
MASS
74
AREA
452
HEIGHT
255
21-Jun-2024
17:11
RUCHA
PATEL



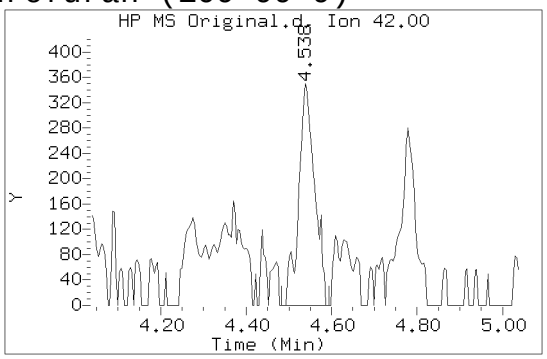
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Inj Date : 05-JUN-2024 19:41
InstruID : VOA9.i
LabSampID : VSTD001

Tetrahydrofuran (109-99-9)

Reason Code:

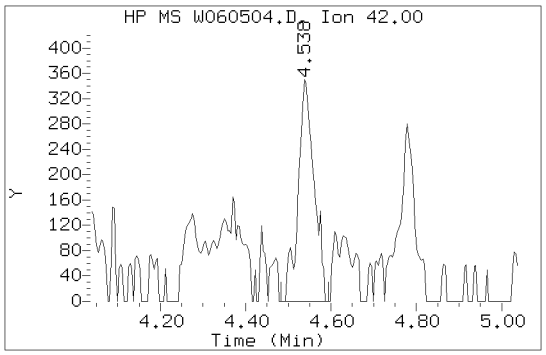
BEFORE

MASS
42
AREA
920
HEIGHT
350
21-Jun-2024
17:11
RUCHA
PATEL



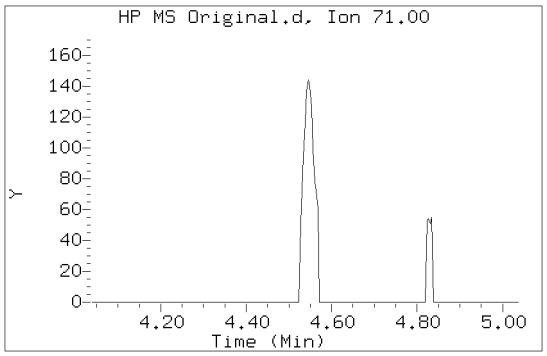
AFTER

MASS
42
AREA
920
HEIGHT
350
21-Jun-2024
17:11
RUCHA
PATEL



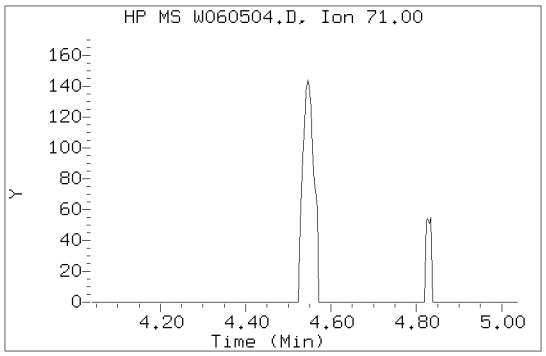
BEFORE

MASS
71
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
71
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

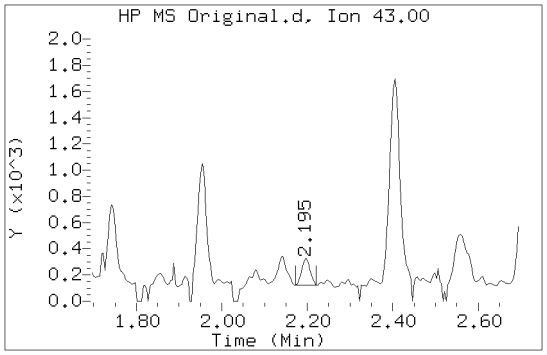


Propylene oxide ()

Reason Code:

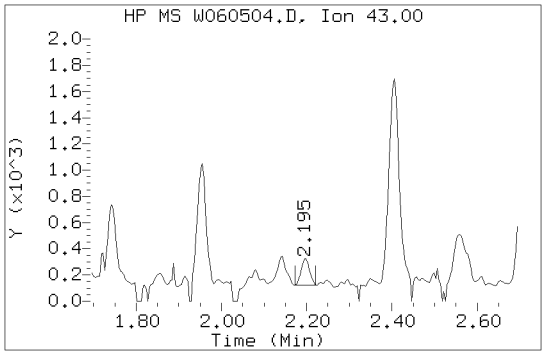
BEFORE

MASS
43
AREA
287
HEIGHT
203
21-Jun-2024
17:11
RUCHA
PATEL



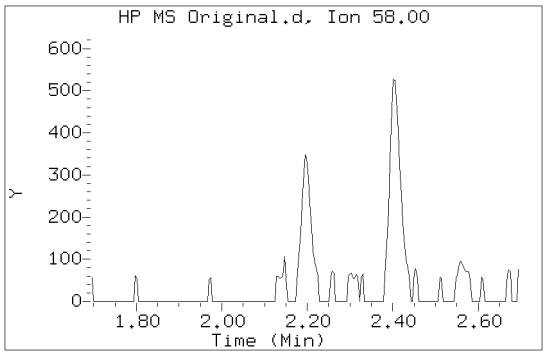
AFTER

MASS
43
AREA
287
HEIGHT
203
21-Jun-2024
17:11
RUCHA
PATEL



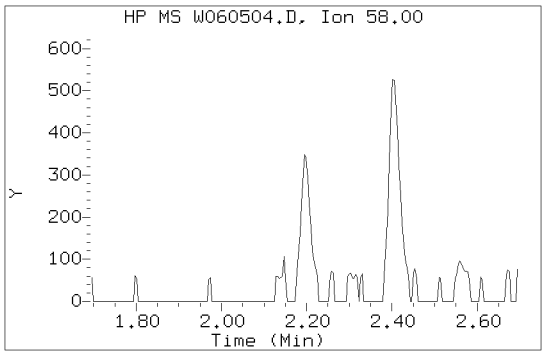
BEFORE

MASS
58
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
58
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

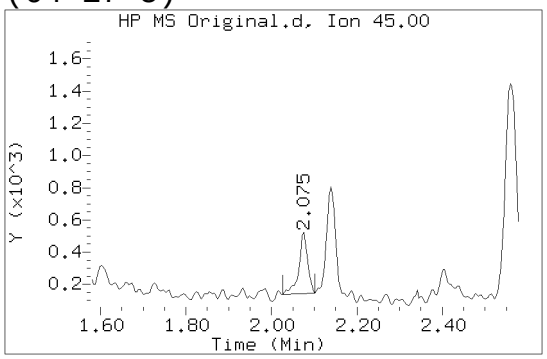


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Inj Date : 05-JUN-2024 19:41
InstruID : VOA9.i
LabSampID : VSTD001

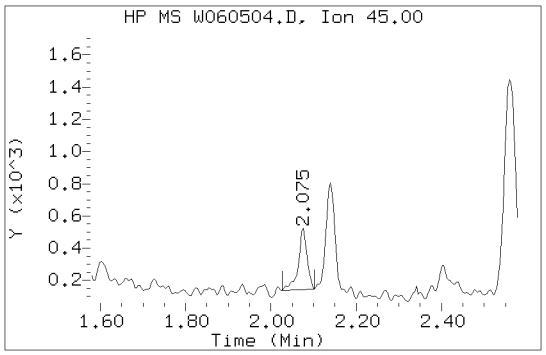
Ethanol (64-17-5)

Reason Code:

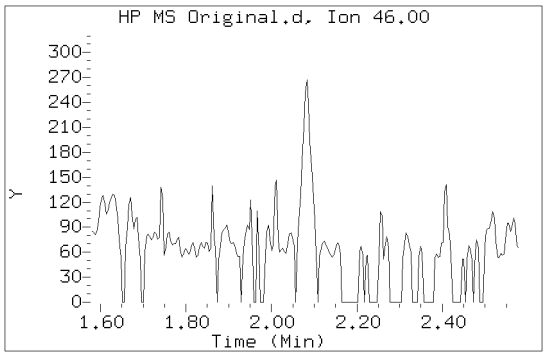
BEFORE
MASS
45
AREA
550
HEIGHT
380
21-Jun-2024
17:11
RUCHA
PATEL



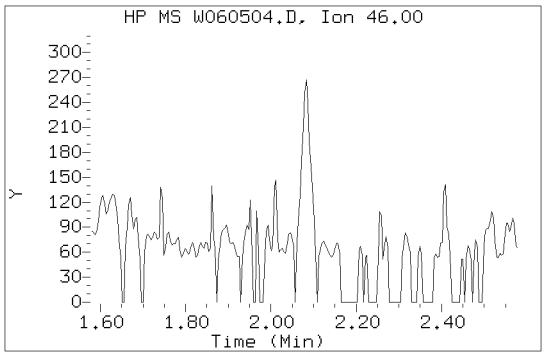
AFTER
MASS
45
AREA
550
HEIGHT
380
21-Jun-2024
17:11
RUCHA
PATEL



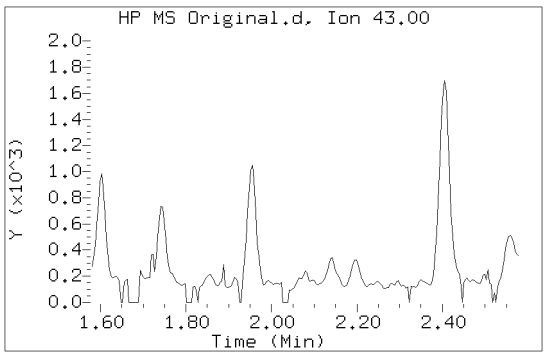
BEFORE
MASS
46
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



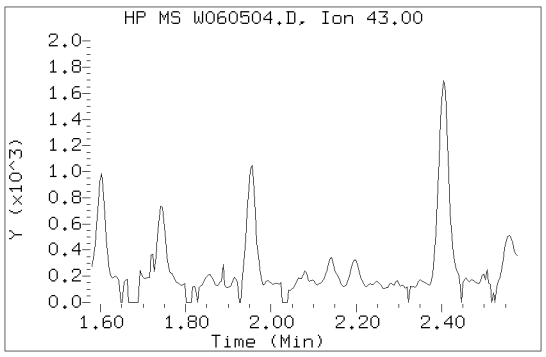
AFTER
MASS
46
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



BEFORE
MASS
43
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



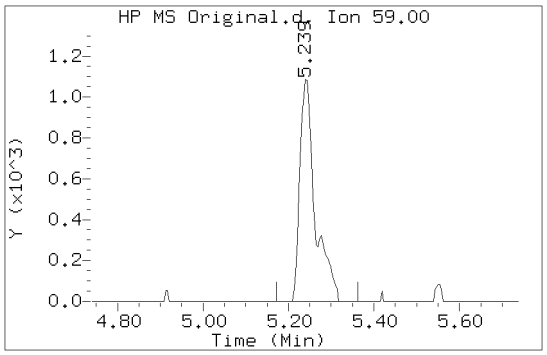
AFTER
MASS
43
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



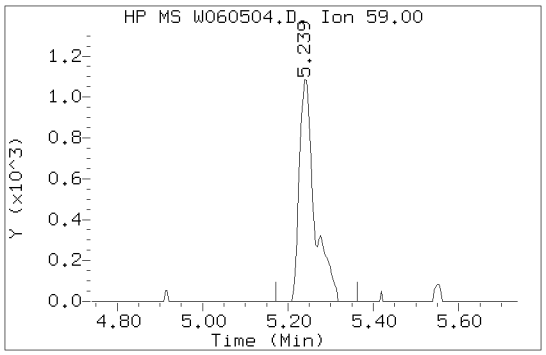
tert-Butyl formate (762-75-4)

Reason Code:

BEFORE
MASS
59
AREA
2752
HEIGHT
1085
21-Jun-2024
17:11
RUCHA
PATEL



AFTER
MASS
59
AREA
2752
HEIGHT
1085
21-Jun-2024
17:11
RUCHA
PATEL

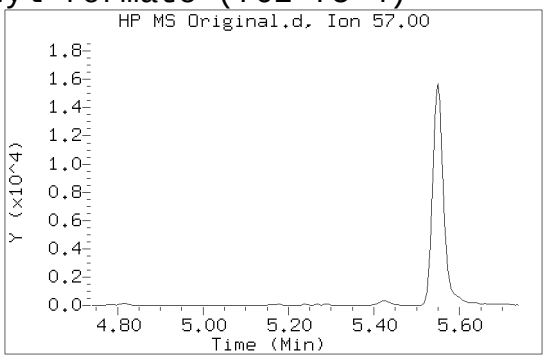


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Inj Date : 05-JUN-2024 19:41
InstruID : VOA9.i
LabSampID : VSTD001

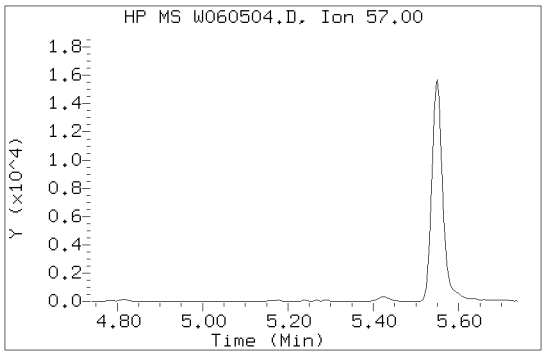
tert-Butyl formate (762-75-4)

Reason Code:

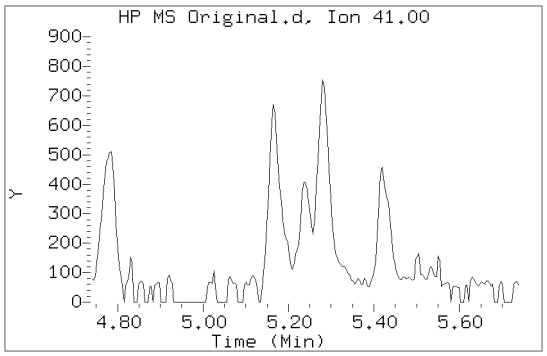
BEFORE
MASS
57
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



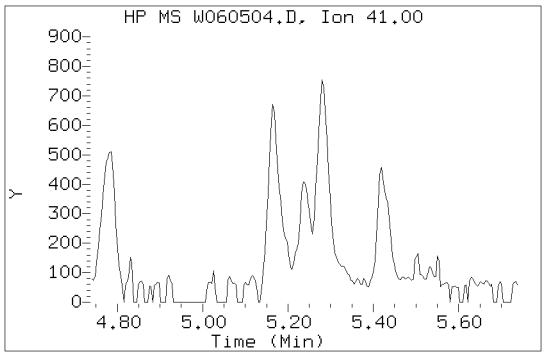
AFTER
MASS
57
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



BEFORE
MASS
41
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



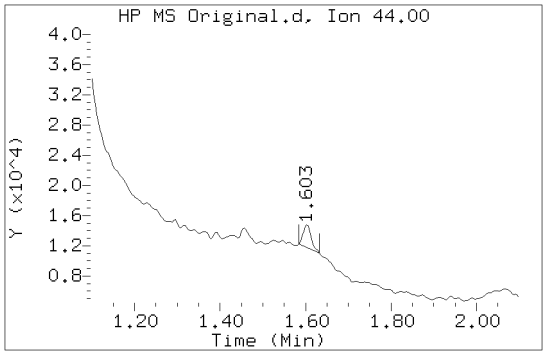
AFTER
MASS
41
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



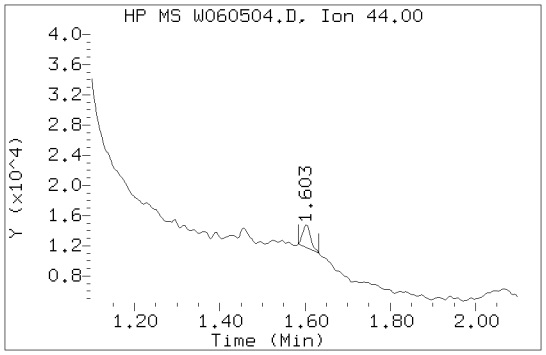
Ethylene oxide (75-21-8)

Reason Code:

BEFORE
MASS
44
AREA
4017
HEIGHT
3031
21-Jun-2024
17:11
RUCHA
PATEL



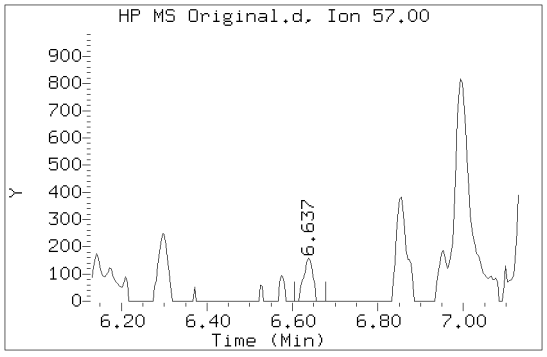
AFTER
MASS
44
AREA
4017
HEIGHT
3031
21-Jun-2024
17:11
RUCHA
PATEL



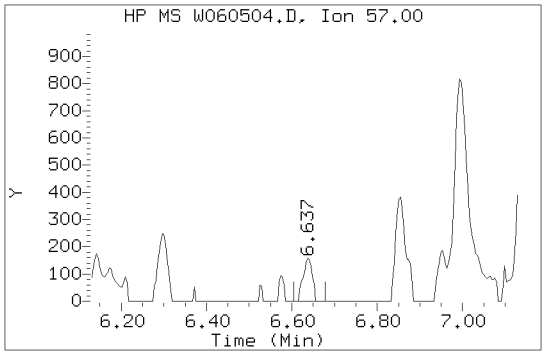
Epichlorohydrin (106-89-8)

Reason Code:

BEFORE
MASS
57
AREA
238
HEIGHT
158
21-Jun-2024
17:11
RUCHA
PATEL



AFTER
MASS
57
AREA
238
HEIGHT
158
21-Jun-2024
17:11
RUCHA
PATEL



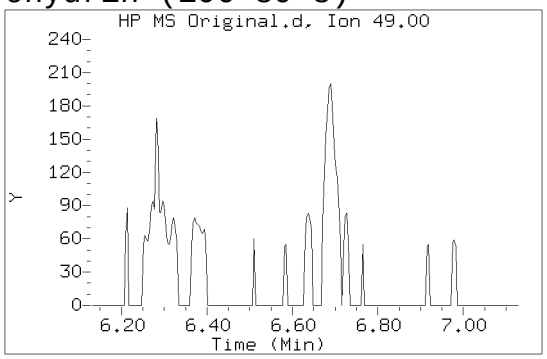
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060504.D
Inj Date : 05-JUN-2024 19:41
InstruID : VOA9.i
LabSampID : VSTD001

Epichlorohydrin (106-89-8)

Reason Code:

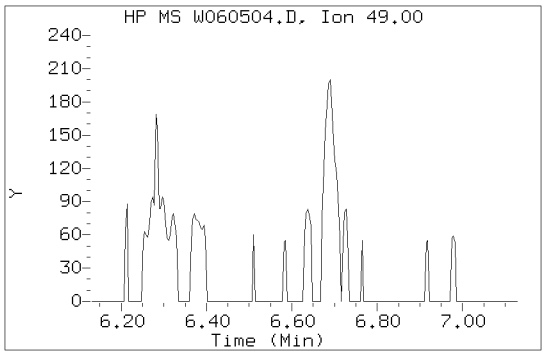
BEFORE

MASS
49
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
49
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

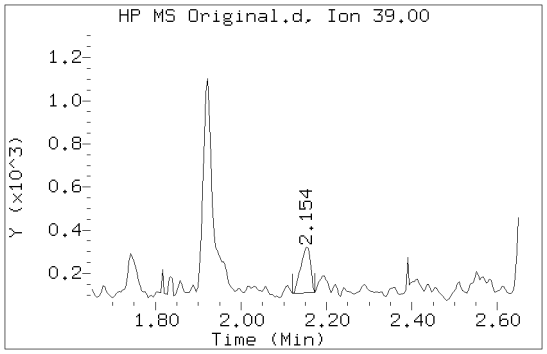


Isoprene (78-79-5)

Reason Code:

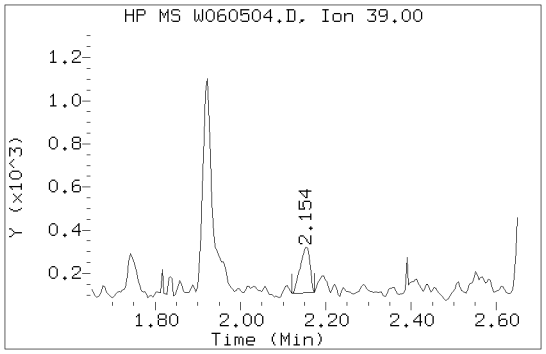
BEFORE

MASS
39
AREA
344
HEIGHT
211
21-Jun-2024
17:11
RUCHA
PATEL



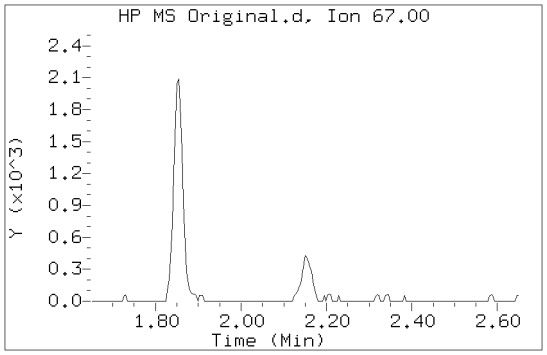
AFTER

MASS
39
AREA
344
HEIGHT
211
21-Jun-2024
17:11
RUCHA
PATEL



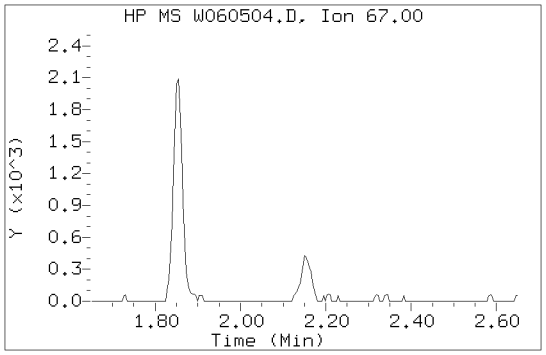
BEFORE

MASS
67
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



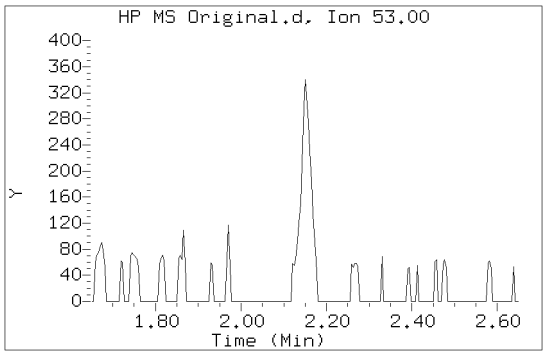
AFTER

MASS
67
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



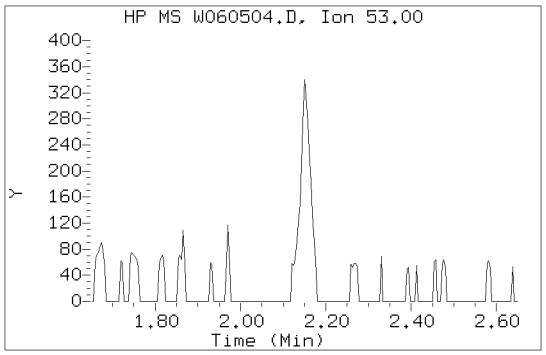
BEFORE

MASS
53
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
53
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



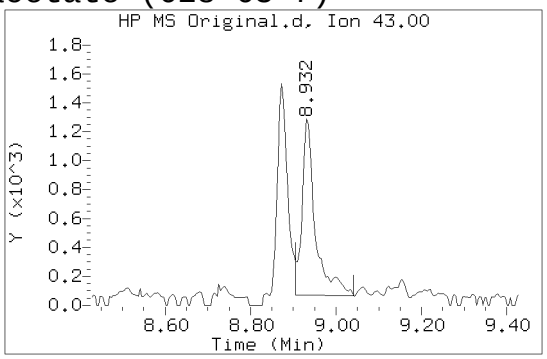
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060504.D
Inj Date : 05-JUN-2024 19:41
InstruID : VOA9.i
LabSampID : VSTD001

n-Amyl acetate (628-63-7)

Reason Code:

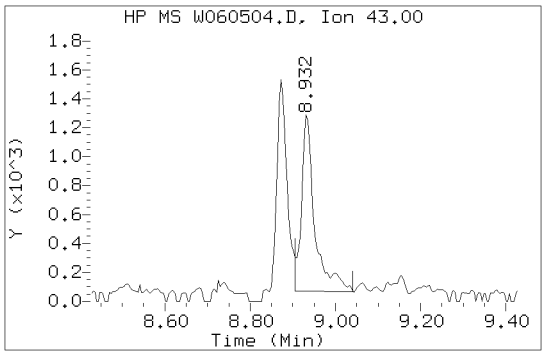
BEFORE

MASS
43
AREA
2676
HEIGHT
1217
21-Jun-2024
17:11
RUCHA
PATEL



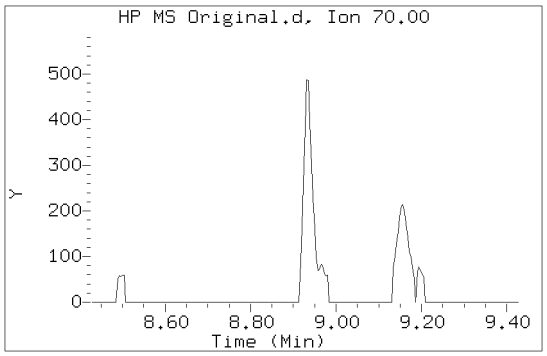
AFTER

MASS
43
AREA
2676
HEIGHT
1217
21-Jun-2024
17:11
RUCHA
PATEL



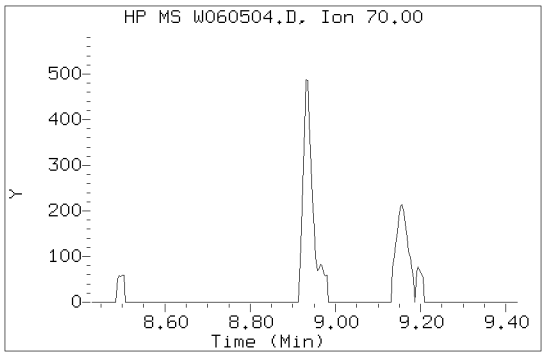
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RUCHA
PATEL



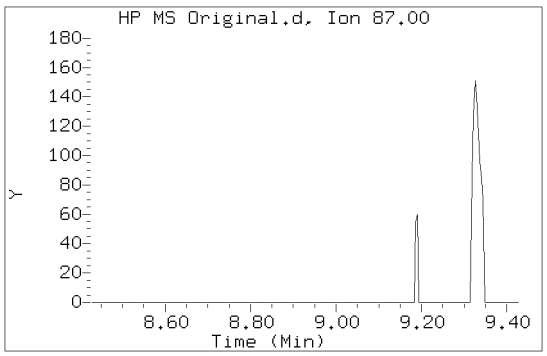
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17:11
RUCHA
PATEL



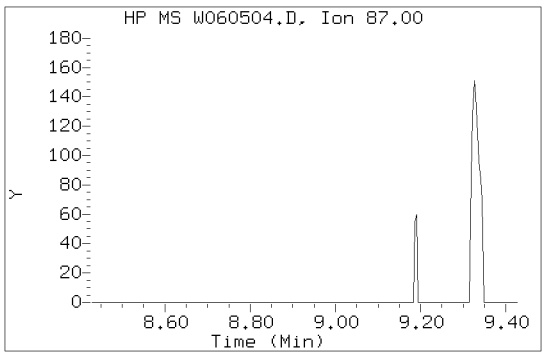
BEFORE

MASS
87
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

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AREA
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HEIGHT
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21-Jun-2024
17:11
RUCHA
PATEL

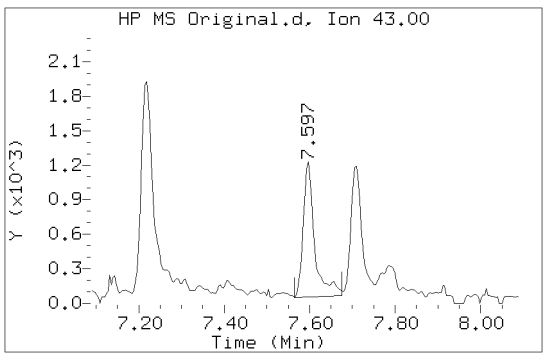


n-Butyl acetate (123-86-4)

Reason Code:

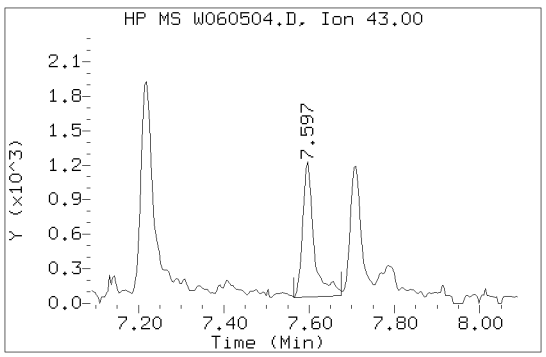
BEFORE

MASS
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AREA
2204
HEIGHT
1177
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
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AREA
2204
HEIGHT
1177
21-Jun-2024
17:11
RUCHA
PATEL

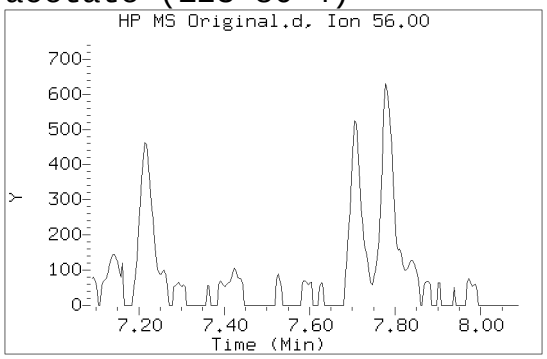


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InstruID : VOA9.i
LabSampID : VSTD001

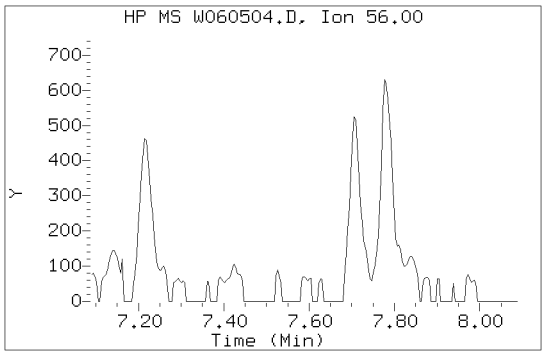
n-Butyl acetate (123-86-4)

Reason Code:

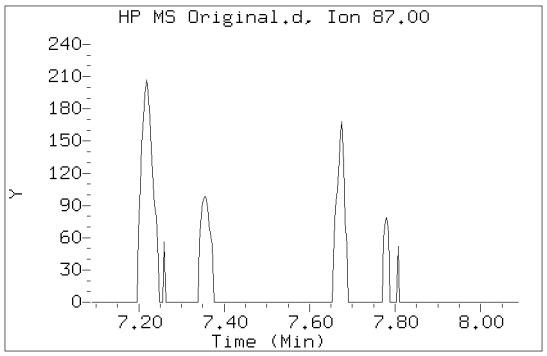
BEFORE
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AREA
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HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



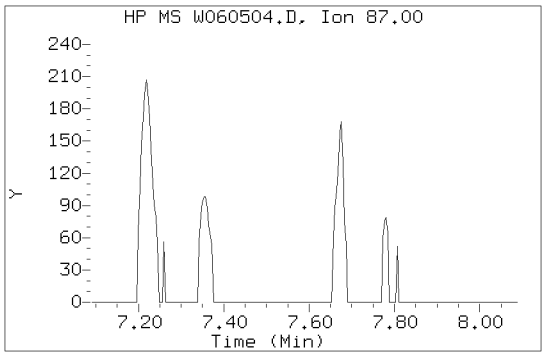
AFTER
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56
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21-Jun-2024
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PATEL



BEFORE
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AREA
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HEIGHT
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21-Jun-2024
17:11
RUCHA
PATEL



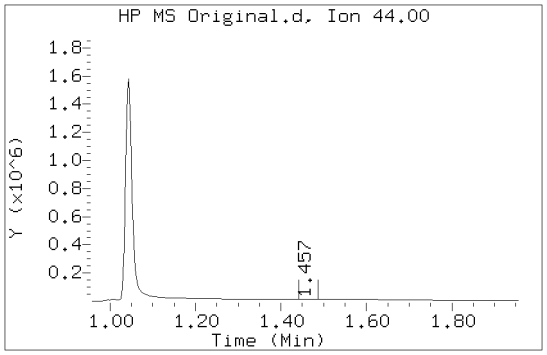
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21-Jun-2024
17:11
RUCHA
PATEL



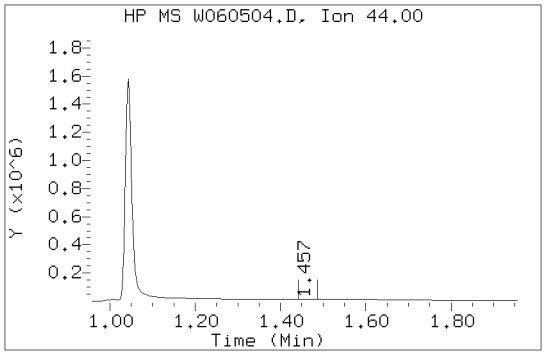
Acetaldehyde (75-07-0)

Reason Code:

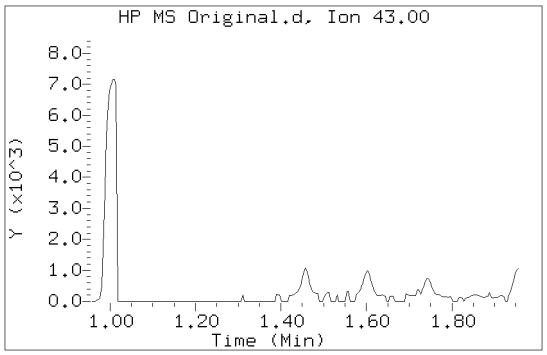
BEFORE
MASS
44
AREA
1886
HEIGHT
1618
21-Jun-2024
17:11
RUCHA
PATEL



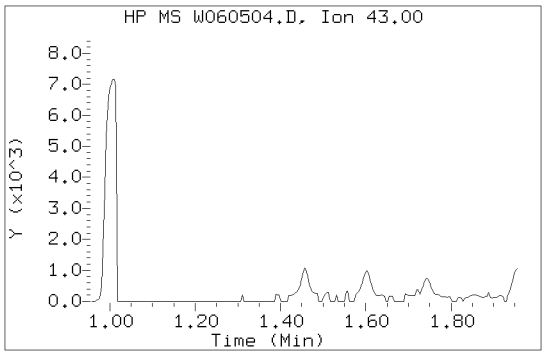
AFTER
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44
AREA
1886
HEIGHT
1618
21-Jun-2024
17:11
RUCHA
PATEL



BEFORE
MASS
43
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER
MASS
43
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HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



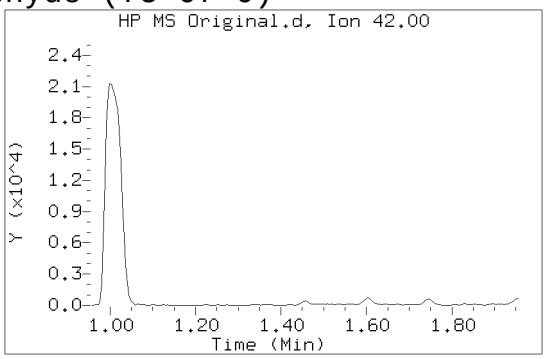
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Inj Date : 05-JUN-2024 19:41
InstruID : VOA9.i
LabSampID : VSTD001

Acetaldehyde (75-07-0)

Reason Code:

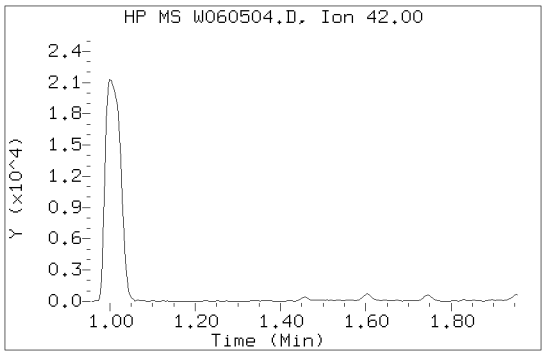
BEFORE

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0
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0
21-Jun-2024
17:11
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PATEL



AFTER

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HEIGHT
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21-Jun-2024
17:11
RUCHA
PATEL

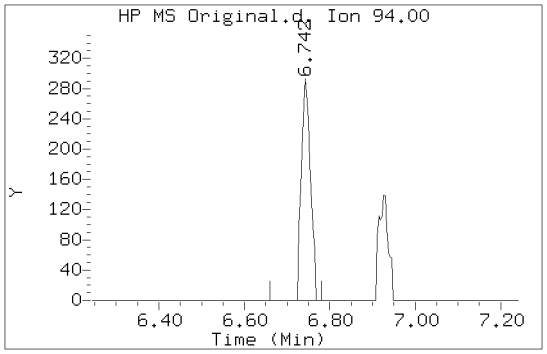


Dimethyl Disulfide (624-92-0)

Reason Code:

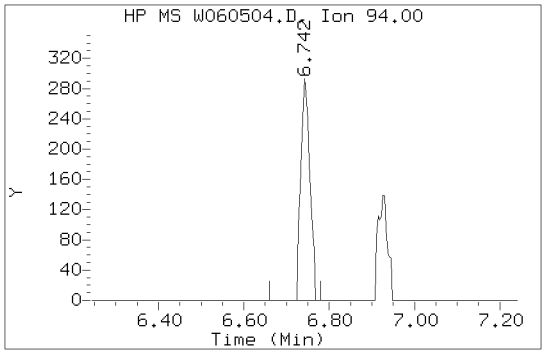
BEFORE

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94
AREA
446
HEIGHT
293
21-Jun-2024
17:11
RUCHA
PATEL



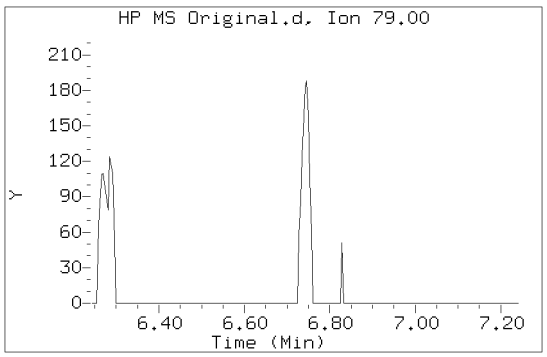
AFTER

MASS
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AREA
446
HEIGHT
293
21-Jun-2024
17:11
RUCHA
PATEL



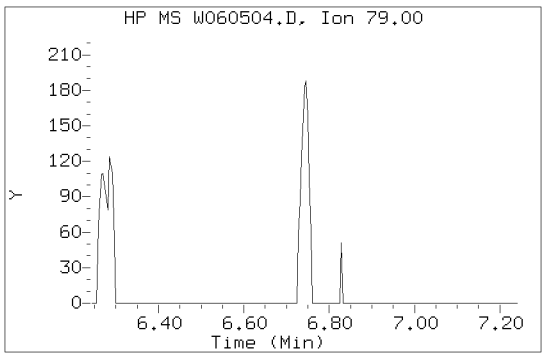
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0
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17:11
RUCHA
PATEL



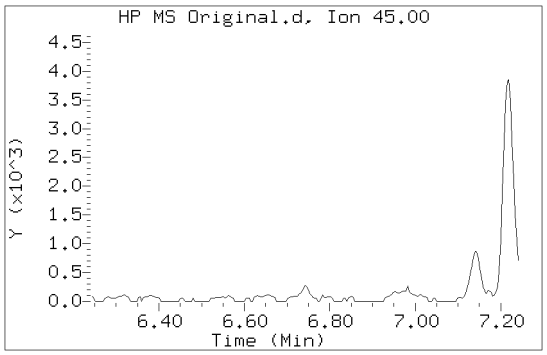
AFTER

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21-Jun-2024
17:11
RUCHA
PATEL



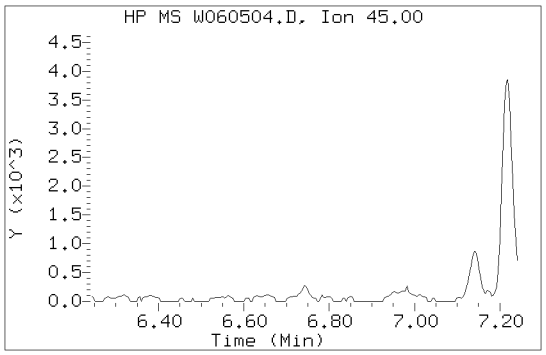
BEFORE

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HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

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HEIGHT
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21-Jun-2024
17:11
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PATEL

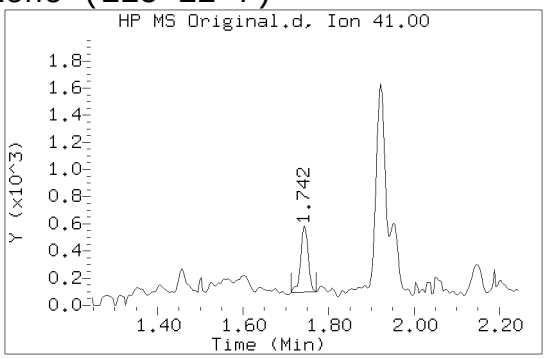


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InstruID : VOA9.i
LabSampID : VSTD001

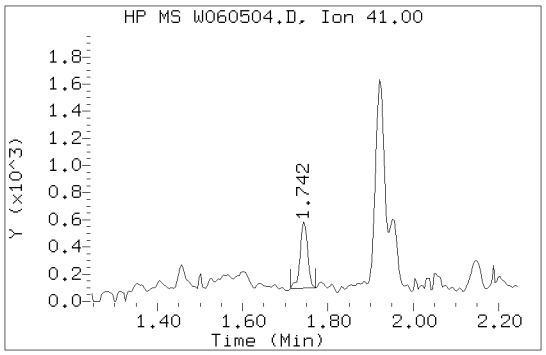
Isobutylene (115-11-7)

Reason Code:

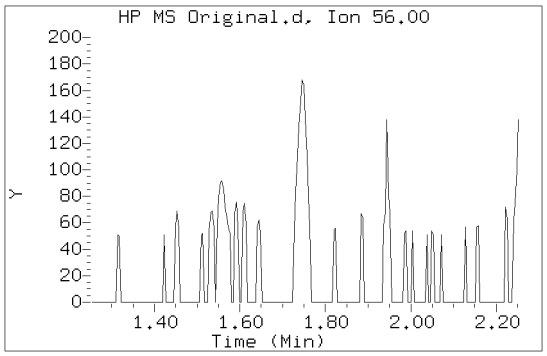
BEFORE
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AREA
612
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487
21-Jun-2024
17:11
RUCHA
PATEL



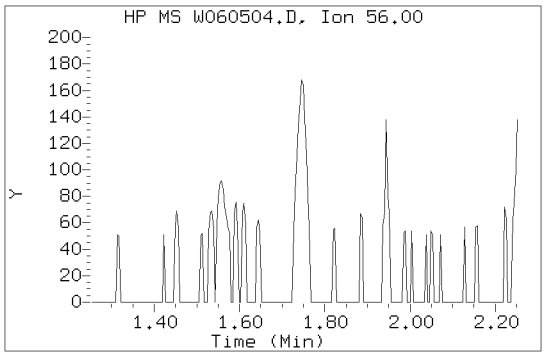
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PATEL



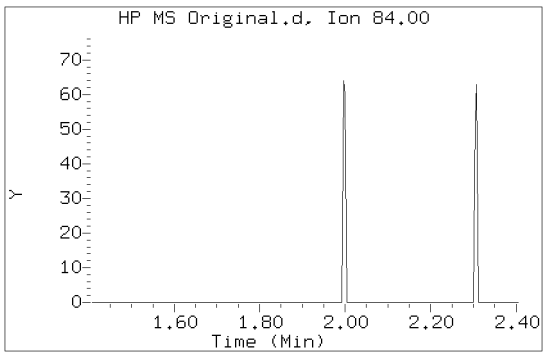
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21-Jun-2024
17:11
RUCHA
PATEL



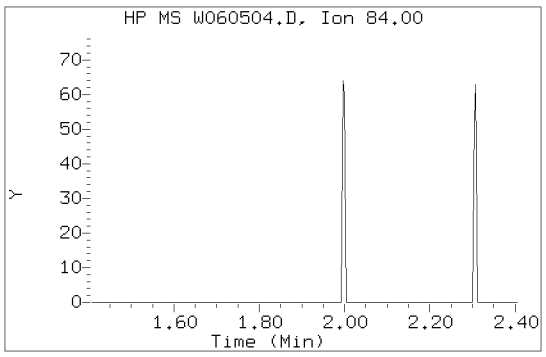
AFTER
MASS
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21-Jun-2024
17:11
RUCHA
PATEL



BEFORE
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0
21-Jun-2024
17:11
RUCHA
PATEL



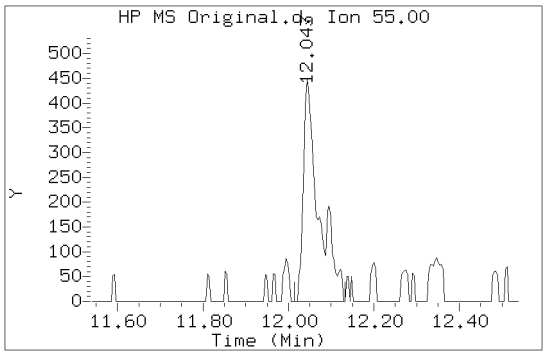
AFTER
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21-Jun-2024
17:11
RUCHA
PATEL



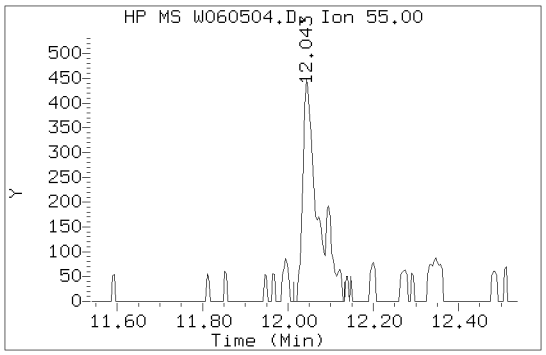
2-Ethylhexyl Acrylate (103-11-7)

Reason Code:

BEFORE
MASS
55
AREA
1138
HEIGHT
447
21-Jun-2024
17:11
RUCHA
PATEL



AFTER
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1138
HEIGHT
447
21-Jun-2024
17:11
RUCHA
PATEL



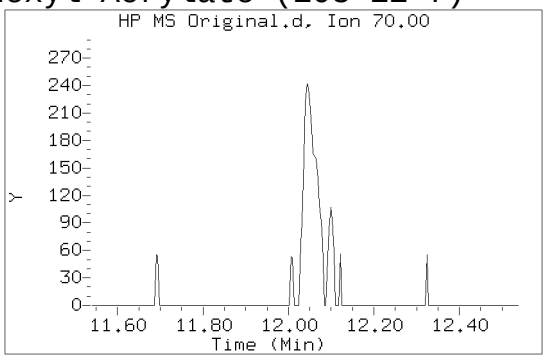
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Inj Date : 05-JUN-2024 19:41
InstruID : VOA9.i
LabSampID : VSTD001

2-Ethylhexyl Acrylate (103-11-7)

Reason Code:

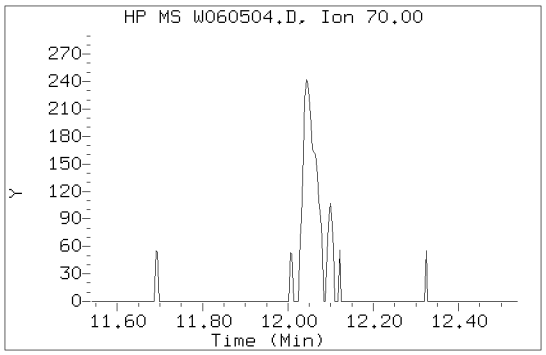
BEFORE

MASS
70
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

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HEIGHT
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21-Jun-2024
17:11
RUCHA
PATEL

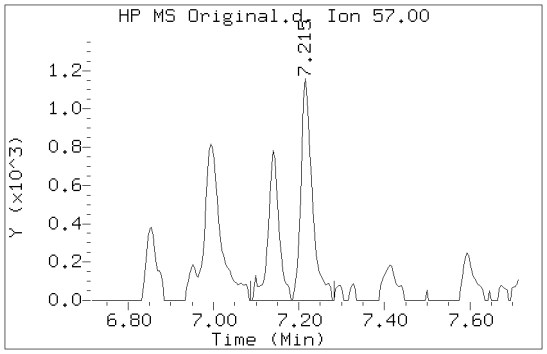


sec-Butyl Ether (6863-58-7)

Reason Code:

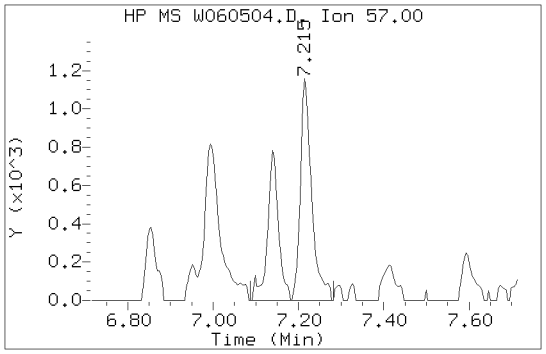
BEFORE

MASS
57
AREA
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HEIGHT
1158
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
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AREA
3578
HEIGHT
1158
21-Jun-2024
17:11
RUCHA
PATEL



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060505.D Page 1
Report Date: 21-Jun-2024 17:11

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060505.D
Lab Smp Id: VSTD002 Client Smp ID: VSTD002
Inj Date : 05-JUN-2024 20:03
Operator : TS Inst ID: VOA9.i
Smp Info : VSTD002;VSTD002;1;4
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240605.b\8260C.m
Meth Date : 21-Jun-2024 17:11 VOA9.i Quant Type: ISTD
Cal Date : 05-JUN-2024 19:41 Cal File: W060504.D
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.819	4.819	(1.000)	198421	50.0000	
2	Dichlorodifluoromethane	85	1.171	1.171	(0.243)	728	2.00000	1.96
4	Propionitrile	54	4.347	4.347	(0.902)	4275	20.0000	23.62(a)
5	Vinyl Chloride	62	1.385	1.385	(0.287)	2075	2.00000	1.54
6	Bromomethane	94	1.625	1.625	(0.337)	2007	2.00000	2.76
7	Chloroethane	64	1.707	1.707	(0.354)	2264	2.00000	2.14
8	Trichlorofluoromethane	101	1.902	1.902	(0.395)	2350	2.00000	1.35
9	Acrolein	56	2.274	2.274	(0.472)	566	4.00000	4.90(aM)
10	Acetone	43	2.416	2.416	(0.501)	3897	4.00000	3.40
11	1,1-Dichloroethene	96	2.337	2.337	(0.485)	1773	2.00000	1.55
12	Isobutyl Alcohol	43	5.287	5.287	(1.097)	8161	40.0000	38.67(a)
13	Acetonitrile	39	2.678	2.678	(0.556)	3507	20.0000	23.06(a)
14	Allyl Chloride	41	2.678	2.678	(0.556)	8420	2.00000	2.33(a)
15	Iodomethane	142	2.472	2.472	(0.513)	1359	4.00000	3.90(T)
16	Acrylonitrile	53	3.076	3.076	(0.638)	2585	4.00000	3.78
17	Methylene Chloride	84	2.802	2.802	(0.582)	4211	2.00000	1.76
18	Methyl tert-butyl ether	73	3.083	3.083	(0.640)	8274	2.00000	2.40
19	Carbon Disulfide	76	2.525	2.525	(0.524)	10663	4.00000	3.26
20	trans-1,2-Dichloroethene	96	3.064	3.064	(0.636)	2486	2.00000	2.11
21	Vinyl Acetate	43	4.350	4.350	(0.903)	2901	4.00000	4.17(M)

22 1,1-Dichloroethane	63	3.514	3.514 (0.729)	5205	2.00000	1.87
23 Chloroprene	53	3.616	3.616 (0.750)	3513	2.00000	1.73(a)

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060505.D Page 2
Report Date: 21-Jun-2024 17:11

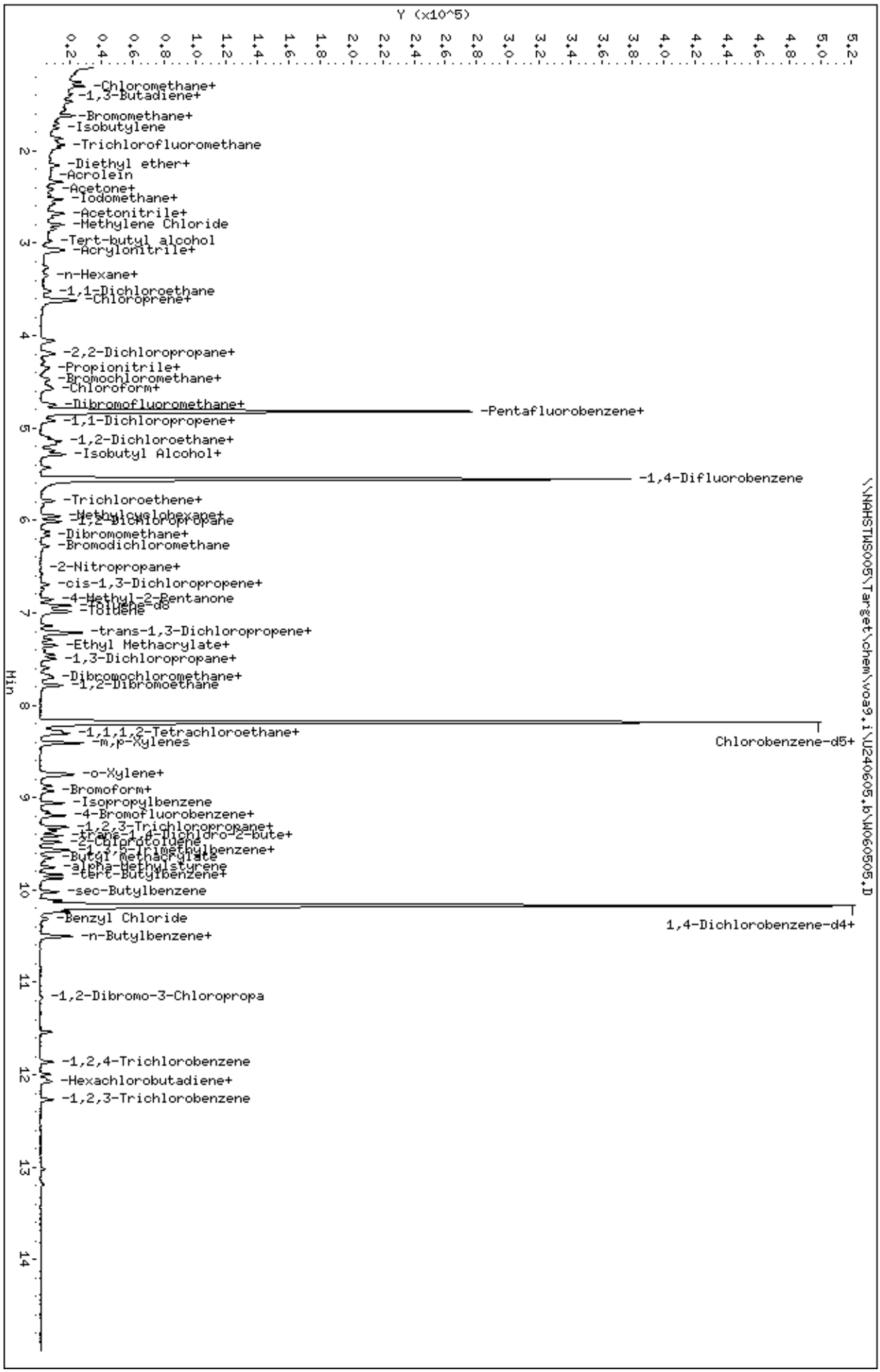
			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
	24	2-Butanone	43	4.275	4.275	(0.887)	4205	4.00000	5.02
	25	Methacrylonitrile	41	4.511	4.511	(0.936)	1556	2.00000	3.19(aM)
	26	2,2-Dichloropropane	77	4.189	4.189	(0.869)	2796	2.00000	1.65
	27	cis-1,2-Dichloroethene	96	4.200	4.200	(0.872)	3282	2.00000	2.40
	28	Chloroform	83	4.575	4.575	(0.949)	5244	2.00000	2.00
	29	Bromochloromethane	128	4.470	4.470	(0.928)	1634	2.00000	1.79
$	30	Dibromofluoromethane	113	4.751	4.751	(0.986)	3237	2.00000	2.26
	31	1,1,1-Trichloroethane	97	4.744	4.744	(0.984)	3146	2.00000	1.67
	32	1,1-Dichloropropene	75	4.924	4.924	(0.887)	3251	2.00000	1.73
	33	1,2-Dichloroethane	62	5.179	5.179	(0.933)	4597	2.00000	1.66
	34	Carbon Tetrachloride	117	4.913	4.913	(0.885)	2164	2.00000	1.39
$	35	1,2-Dichloroethane-d4	65	5.100	5.100	(1.058)	4467	2.00000	2.56
*	36	1,4-Difluorobenzene	114	5.554	5.554	(1.000)	290840	50.0000	
	37	Benzene	78	5.141	5.141	(0.926)	11775	2.00000	2.25
	38	Trichloroethene	130	5.790	5.790	(1.043)	2657	2.00000	1.83(a)
	39	Bromodichloromethane	83	6.277	6.277	(1.130)	3145	2.00000	1.82(aM)
	40	Methyl Methacrylate	41	5.831	5.831	(1.210)	1485	2.00000	4.62(a)
	41	2-Chloroethylvinyl ether	63	6.581	6.581	(1.185)	675	4.00000	7.85(M)
	42	1,2-Dichloropropane	63	6.011	6.011	(1.082)	3585	2.00000	2.25(a)
	43	2-Nitropropane	43	6.506	6.506	(1.350)	495	2.00000	1.73(TaM)
	44	Dibromomethane	93	6.120	6.120	(1.102)	1788	2.00000	1.83(a)
	45	4-Methyl-2-Pentanone	43	6.854	6.854	(0.837)	5646	4.00000	6.11
	46	cis-1,3-Dichloropropene	75	6.693	6.693	(1.205)	3116	2.00000	3.77(a)
*	47	Chlorobenzene-d5	117	8.185	8.185	(1.000)	258947	50.0000	
$	48	Toluene-d8	98	6.922	6.922	(0.846)	11768	2.00000	2.26(a)
	49	Ethyl Methacrylate	69	7.293	7.293	(1.313)	3136	2.00000	1.66(a)
	50	Toluene	91	6.982	6.982	(0.853)	10514	2.00000	1.81(a)
	51	trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	2198	2.00000	3.73(a)
	52	2-Hexanone	43	7.218	7.218	(0.882)	6307	4.00000	4.47(a)
	53	1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	2412	2.00000	1.99(a)
	54	1,3-Dichloropropane	76	7.499	7.499	(0.916)	4929	2.00000	2.03(a)
	55	Dibromochloromethane	129	7.690	7.690	(0.940)	1913	2.00000	3.24(a)
	56	Tetrachloroethene	164	7.458	7.458	(0.911)	1956	2.00000	1.74(a)
	57	1,2-Dibromoethane	107	7.784	7.784	(0.951)	2307	2.00000	2.33(a)
	58	1-Chlorohexane	55	8.185	8.185	(1.474)	4419	2.00000	3.48(a)
	59	Chlorobenzene	112	8.208	8.208	(1.003)	8144	2.00000	2.12(a)
	60	1,1,1,2-Tetrachloroethane	131	8.279	8.279	(1.011)	2323	2.00000	1.85(a)
	61	Ethylbenzene	106	8.305	8.305	(1.015)	3235	2.00000	1.75(a)
	62	m,p-Xylenes	106	8.406	8.406	(1.027)	7934	4.00000	3.45(a)
	63	o-Xylene	106	8.747	8.747	(1.069)	3893	2.00000	1.75(a)
	64	Styrene	104	8.762	8.762	(1.071)	6104	2.00000	1.69(a)
	66	Bromoform	173	8.920	8.920	(1.090)	1212	2.00000	4.80(aM)
	67	Isopropylbenzene	105	9.059	9.059	(1.107)	8673	2.00000	1.64(a)
	68	1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	4084	2.00000	2.04(aM)
$	69	4-Bromofluorobenzene	95	9.194	9.194	(1.123)	4677	2.00000	2.48(a)
*	70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	133881	50.0000	
	71	1,2,3-Trichloropropane	75	9.362	9.362	(0.921)	3957	2.00000	3.38(a)
	72	trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	824	2.00000	2.70(a)
	73	n-Propylbenzene	91	9.411	9.411	(0.926)	9692	2.00000	1.59(a)
	74	Bromobenzene	156	9.317	9.317	(0.916)	3263	2.00000	2.43(a)
	75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	6298	2.00000	1.57(a)
	76	2-Chlorotoluene	91	9.482	9.482	(0.933)	7285	2.00000	1.84(a)

77 4-Chlorotoluene	91	9.576	9.576 (0.942)	8752	2.00000	1.92(a)
78 tert-Butylbenzene	119	9.835	9.835 (0.967)	5853	2.00000	1.59(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	6978	2.00000	1.68(a)
81	sec-Butylbenzene	105	10.022	10.022	(0.986)	7262	2.00000	1.49(a)
82	p-Isopropyltoluene	119	10.142	10.142	(0.997)	6255	2.00000	1.52(a)
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	5491	2.00000	1.94(a)
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	7121	2.00000	2.40(a)
86	Benzyl Chloride	91	10.314	10.314	(1.260)	3116	2.00000	3.21(aM)
87	n-Butylbenzene	91	10.491	10.491	(1.032)	5174	2.00000	2.93(a)
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	5496	2.00000	2.06(a)
89	1,2-Dibromo-3-Chloropropane	155	11.162	11.162	(1.098)	293	2.00000	2.82(aM)
90	1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	2921	2.00000	3.34(a)
91	Hexachlorobutadiene	225	11.998	11.998	(1.180)	1200	2.00000	1.56(a)
92	Naphthalene	128	12.073	12.073	(1.187)	5312	2.00000	3.10(a)
93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.207)	2781	2.00000	1.80(a)
146	Methyl acetate	43	2.720	2.720	(0.564)	4003	2.00000	1.35(a)
138	Freon TF	101	2.337	2.337	(0.485)	1275	2.00000	1.30(a)
141	Cyclohexane	56	4.815	4.815	(0.999)	5707	2.00000	3.43(a)
142	Tetrahydrofuran	42	4.549	4.549	(0.944)	1871	4.00000	6.42(M)
147	Methylcyclohexane	55	5.951	5.951	(1.072)	6035	2.00000	1.80(a)
135	1,4-Dioxane	88	6.176	6.176	(1.282)	711	40.0000	47.70(M)
132	n-Butanol	56	5.831	5.831	(1.210)	1478	40.0000	88.39(a)
136	n-Hexane	57	3.349	3.349	(0.695)	1625	2.00000	1.92(a)
139	Diethyl ether	59	2.154	2.154	(0.447)	2314	2.00000	2.28(a)
148	Tert-butyl alcohol	59	2.975	2.975	(0.617)	5671	40.0000	54.96
149	Isopropyl alcohol	45	2.570	2.570	(0.533)	4239	40.0000	50.58(T)
156	Diisopropyl ether	45	3.627	3.627	(0.753)	11586	2.00000	2.81(Ta)
162	Butyl acrylate	55	8.736	8.736	(1.067)	4541	2.00000	1.77(a)
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	15708	2.00000	3.37(a)
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	8207	2.00000	2.80(a)
167	Ethanol	45	2.090	2.090	(0.434)	938	40.0000	42.90(M)
172	tert-Butyl formate	59	5.242	5.242	(1.088)	4441	4.00000	4.29(aM)
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.299)	12146	40.0000	82.02
140	1,3-Butadiene	54	1.411	1.411	(0.293)	979	2.00000	1.96(a)
182	Epichlorohydrin	57	6.629	6.629	(1.194)	526	8.00000	8.22(M)
M 94	1,2-Dichloroethylene (total)	96				5768	4.00000	(a)
130	Ethyl Acetate	43	4.545	4.545	(0.943)	1381	2.00000	(aM)
131	Methyl Acrylate	55	4.380	4.380	(0.909)	3454	2.00000	2.85(aM)
189	n-Butyl acetate	43	7.593	7.593	(0.928)	3735	2.00000	1.92(aM)
134	Cyclohexanone	55	9.152	9.152	(0.900)	2636	40.0000	29.87(a)
185	Isoprene	39	2.165	2.165	(0.449)	784	2.00000	2.35(a)
188	Isopropyl acetate	43	5.287	5.287	(0.952)	8161	2.00000	2.28(a)
150	Allyl alcohol	57	3.349	3.349	(0.695)	1625	40.0000	38.52
194	Acetaldehyde	44	1.468	1.468	(0.305)	2016	8.00000	7.85(M)
200	Dimethyl Disulfide	94	6.746	6.746	(0.824)	946	2.00000	2.46(aM)
202	Isobutylene	41	1.756	1.756	(0.364)	1101	2.00000	1.69(aM)
133	Ethyl Acrylate	55	5.951	5.951	(1.235)	6251	2.00000	1.86(aM)
163	Butyl methacrylate	41	9.647	9.647	(0.949)	3207	2.00000	1.57(a)
159	Propylene oxide	43	2.202	2.202	(0.457)	361	4.00000	3.24(aM)
178	Ethylene oxide	44	1.614	1.614	(0.335)	6470	4.00000	8.29(M)
203	2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	2165	2.00000	2.74(a)
204	Tetrahydrothiophene	60	7.672	7.672	(0.937)	1963	2.00000	1.59(aA)
205	sec-Butyl Ether	57	7.218	7.218	(0.882)	6163	2.00000	1.94(aAM)
187	n-Amyl acetate	43	8.931	8.931	(1.091)	4439	2.00000	1.84(aM)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060505.D
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Client ID: VSTD002
Sample Info: VSTD002;VSTD0021;4
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

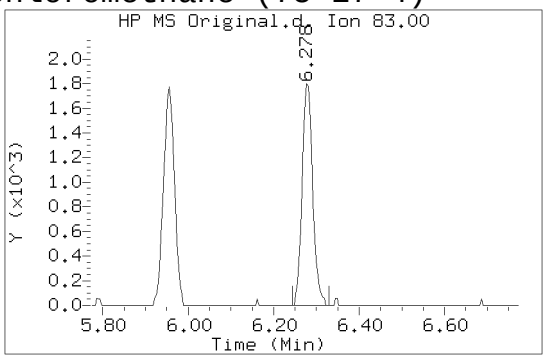
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InstruID : VOA9.i
LabSampID : VSTD002

Bromodichloromethane (75-27-4)

Reason Code:

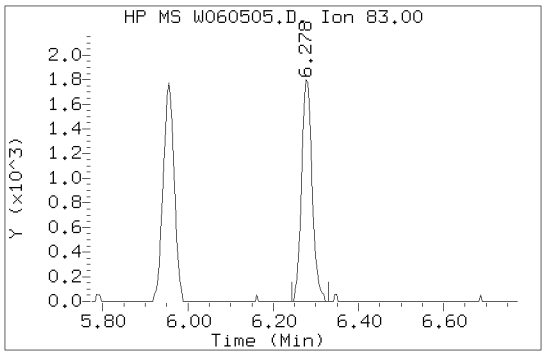
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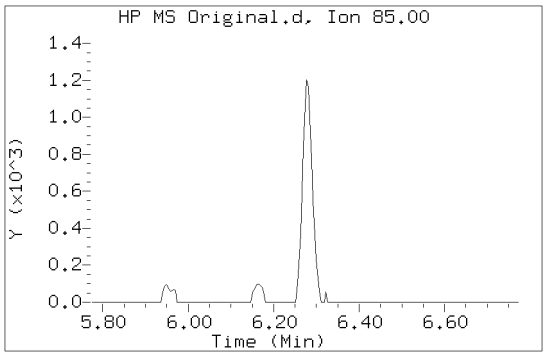
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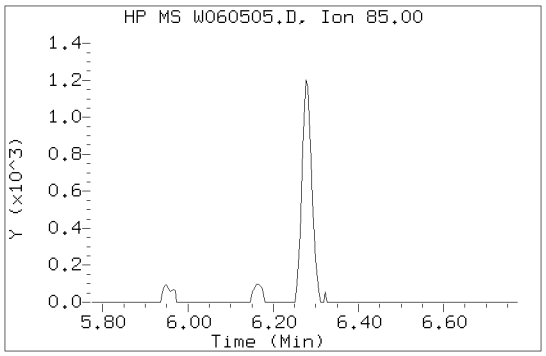
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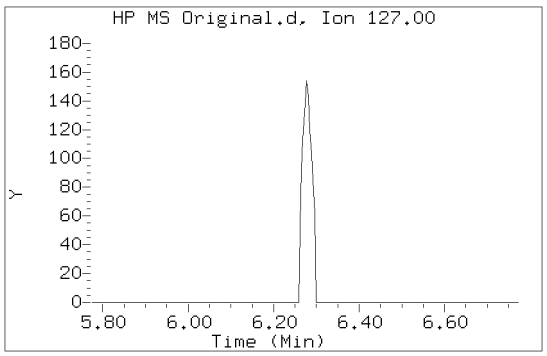
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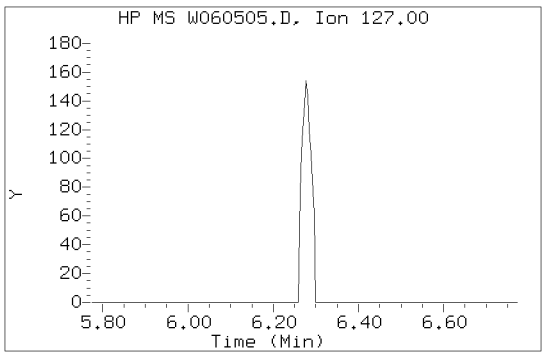
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AFTER

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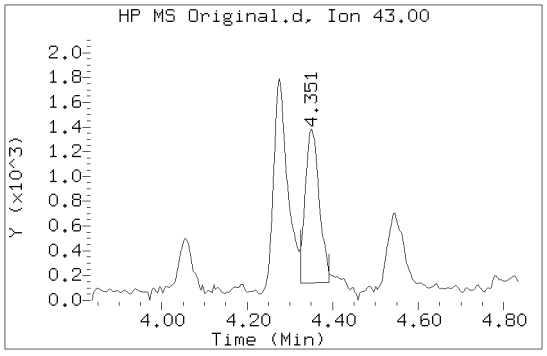


Vinyl Acetate (108-05-4)

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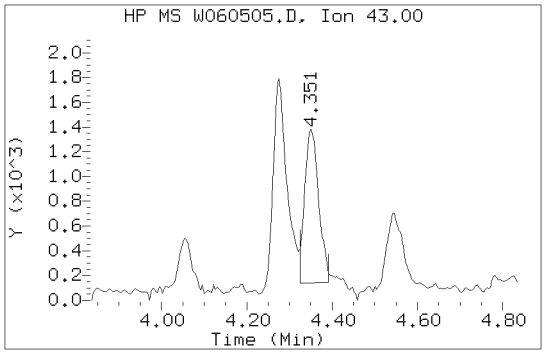
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AFTER

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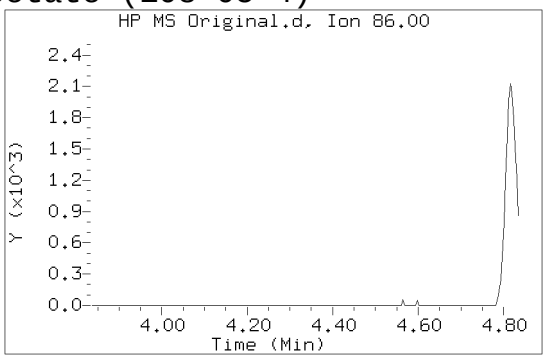
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LabSampID : VSTD002

Vinyl Acetate (108-05-4)

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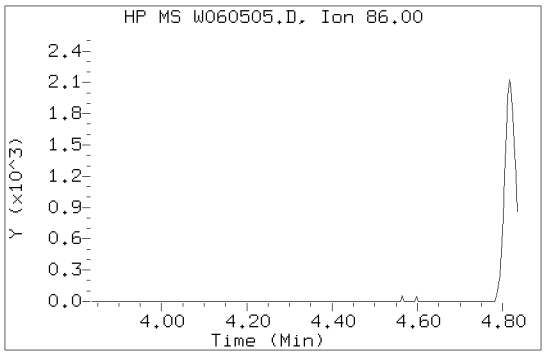
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AFTER

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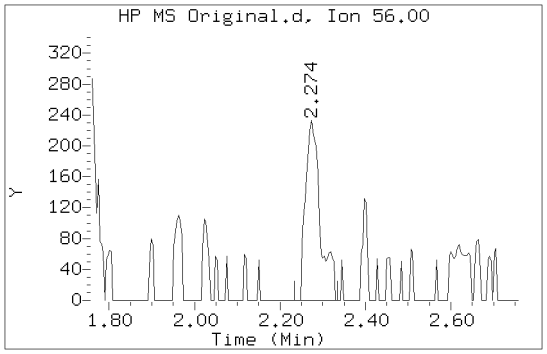


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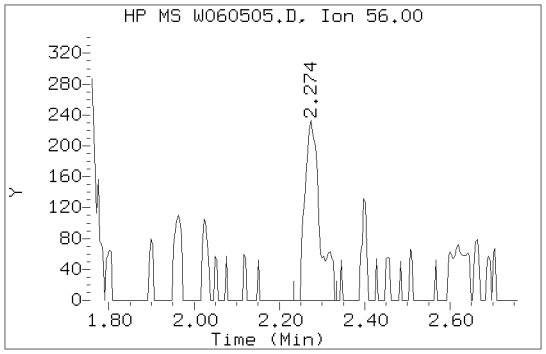
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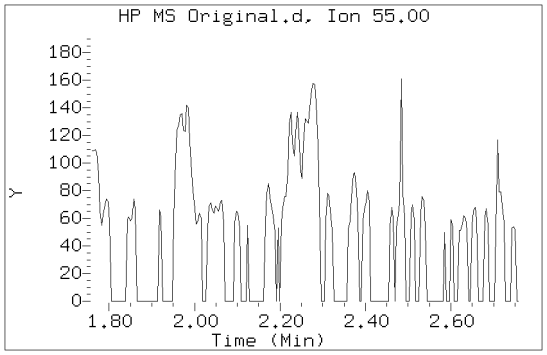
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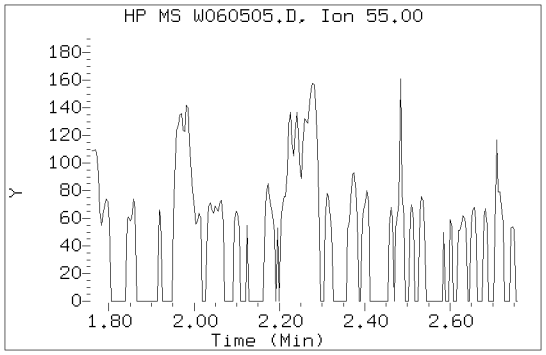
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AFTER

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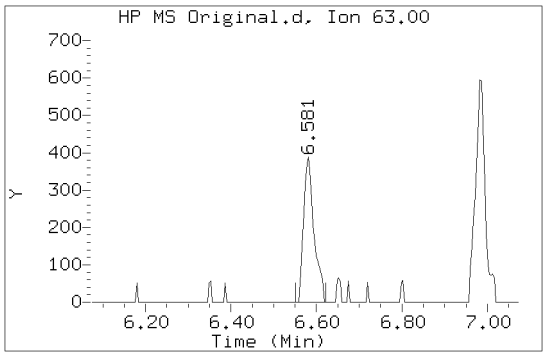


2-Chloroethylvinyl ether (110-75-8)

Reason Code:

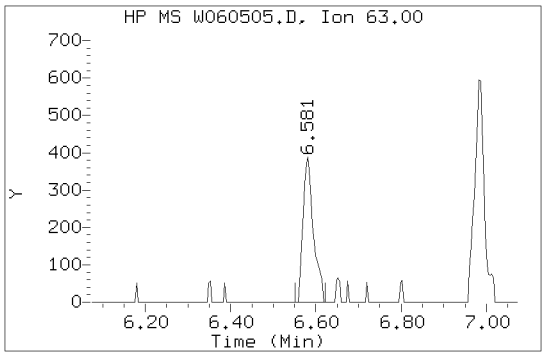
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AFTER

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21-Jun-2024
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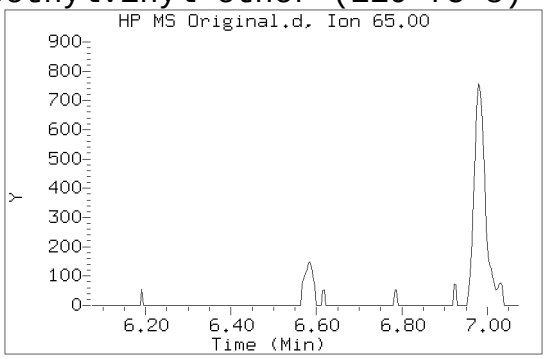
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Inj Date : 05-JUN-2024 20:03
InstruID : VOA9.i
LabSampID : VSTD002

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

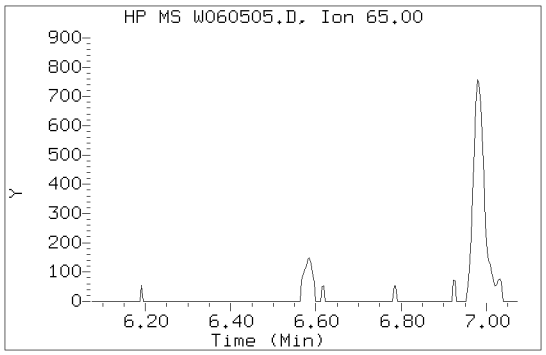
BEFORE

MASS
65
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



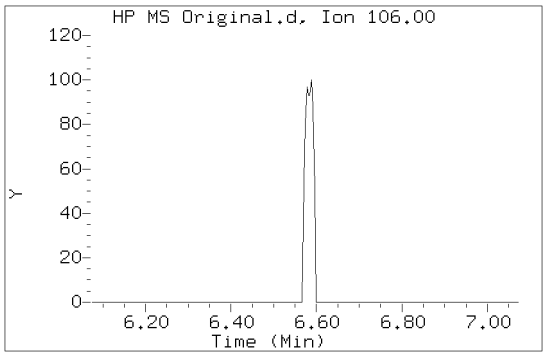
AFTER

MASS
65
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



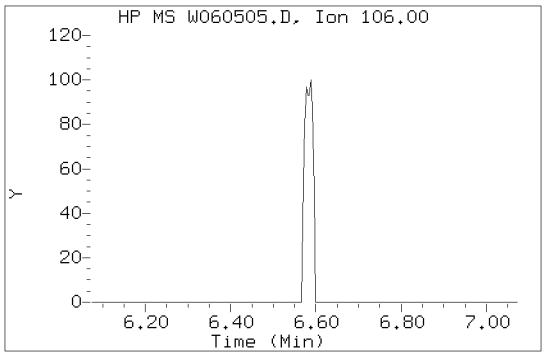
BEFORE

MASS
106
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
106
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

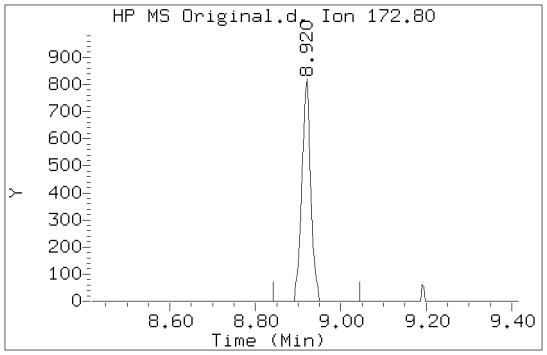


Bromoform (75-25-2)

Reason Code:

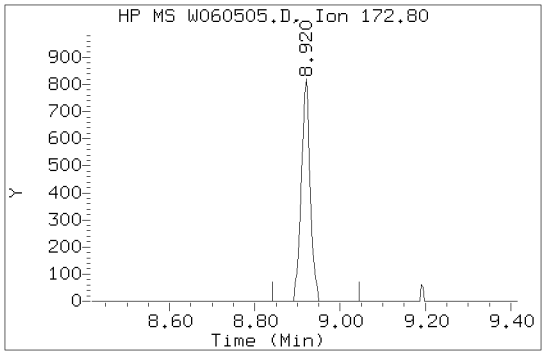
BEFORE

MASS
172.8
AREA
1212
HEIGHT
821
21-Jun-2024
17:11
RUCHA
PATEL



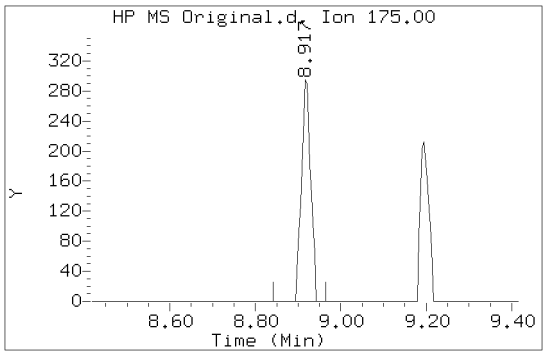
AFTER

MASS
172.8
AREA
1212
HEIGHT
821
21-Jun-2024
17:11
RUCHA
PATEL



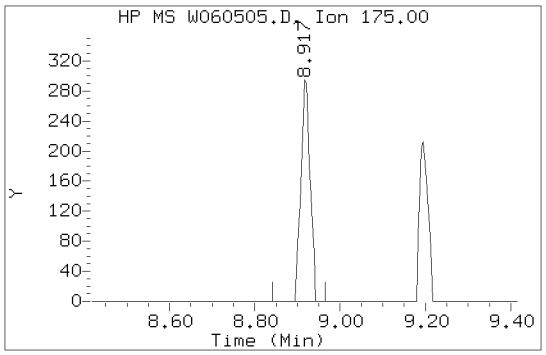
BEFORE

MASS
175
AREA
454
HEIGHT
295
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
175
AREA
454
HEIGHT
295
21-Jun-2024
17:11
RUCHA
PATEL



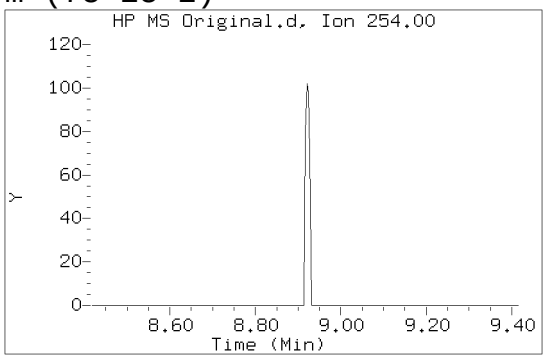
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060505.D
Inj Date : 05-JUN-2024 20:03
InstruID : VOA9.i
LabSampID : VSTD002

Bromoform (75-25-2)

Reason Code:

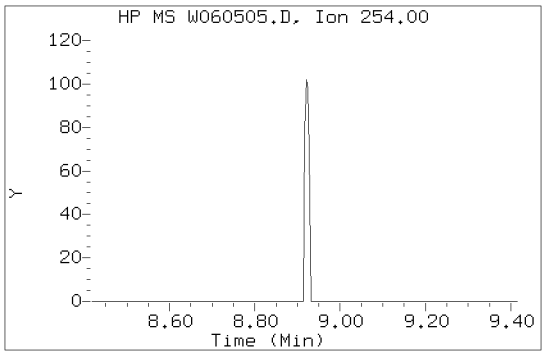
BEFORE

MASS
254
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
254
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

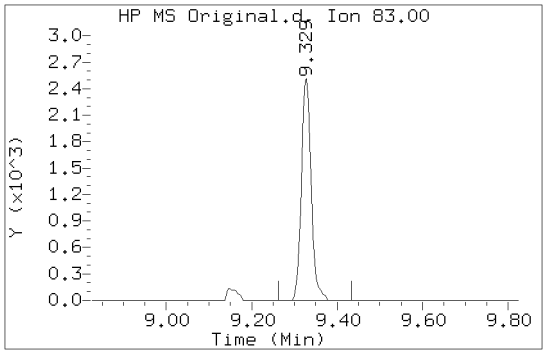


1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

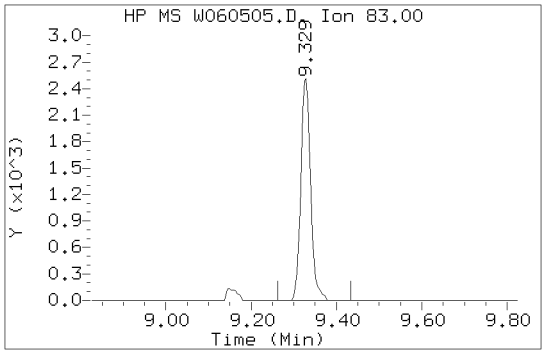
BEFORE

MASS
83
AREA
4084
HEIGHT
2515
21-Jun-2024
17:11
RUCHA
PATEL



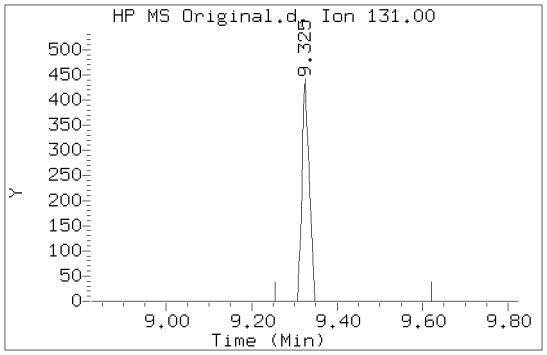
AFTER

MASS
83
AREA
4084
HEIGHT
2515
21-Jun-2024
17:11
RUCHA
PATEL



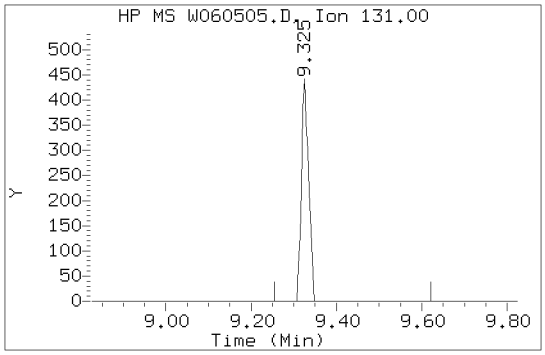
BEFORE

MASS
131
AREA
528
HEIGHT
442
21-Jun-2024
17:11
RUCHA
PATEL



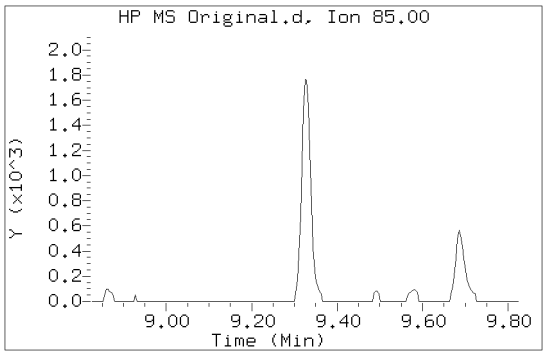
AFTER

MASS
131
AREA
528
HEIGHT
442
21-Jun-2024
17:11
RUCHA
PATEL



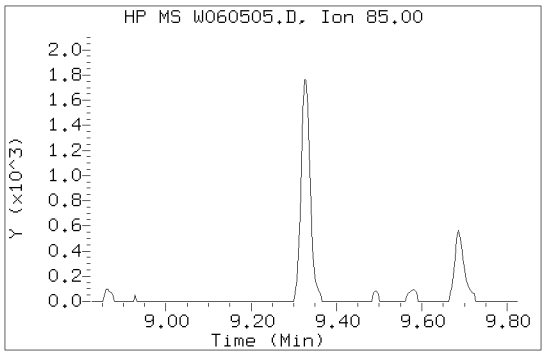
BEFORE

MASS
85
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
85
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



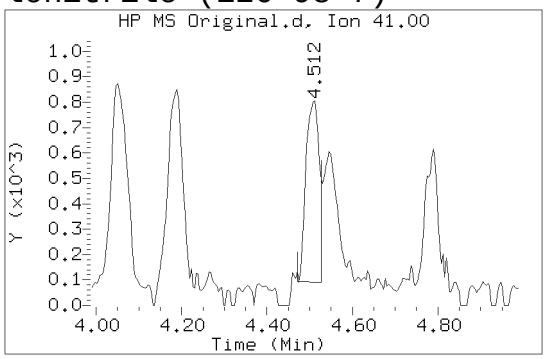
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060505.D
Inj Date : 05-JUN-2024 20:03
InstruID : VOA9.i
LabSampID : VSTD002

Methacrylonitrile (126-98-7)

Reason Code:

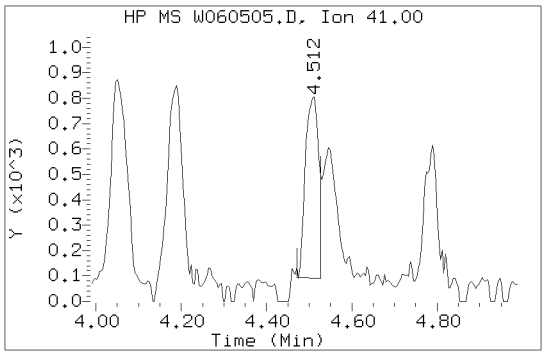
BEFORE

MASS
41
AREA
1556
HEIGHT
713
21-Jun-2024
17:11
RUCHA
PATEL



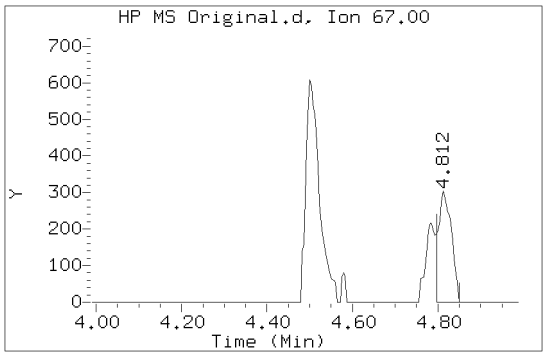
AFTER

MASS
41
AREA
1556
HEIGHT
713
21-Jun-2024
17:11
RUCHA
PATEL



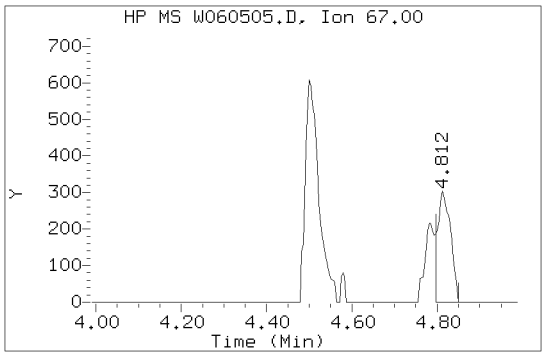
BEFORE

MASS
67
AREA
643
HEIGHT
304
21-Jun-2024
17:11
RUCHA
PATEL



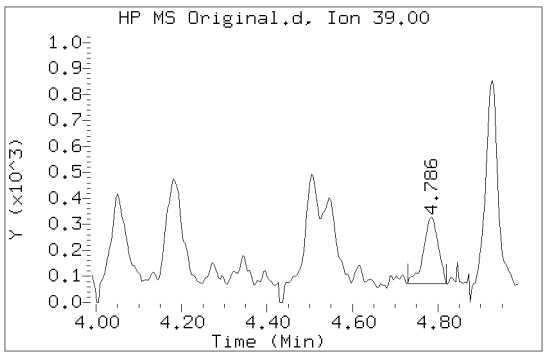
AFTER

MASS
67
AREA
643
HEIGHT
304
21-Jun-2024
17:11
RUCHA
PATEL



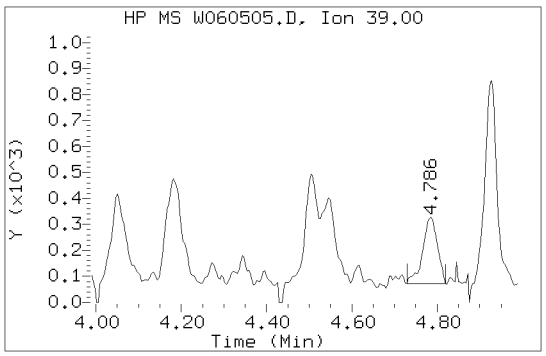
BEFORE

MASS
39
AREA
617
HEIGHT
257
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
39
AREA
617
HEIGHT
257
21-Jun-2024
17:11
RUCHA
PATEL

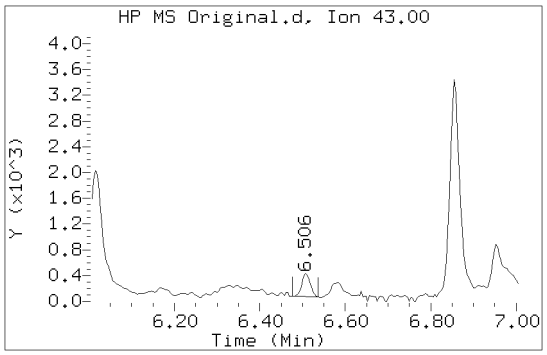


2-Nitropropane (79-46-9)

Reason Code:

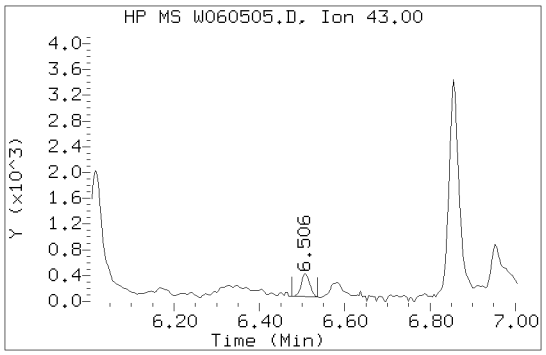
BEFORE

MASS
43
AREA
495
HEIGHT
356
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
43
AREA
495
HEIGHT
356
21-Jun-2024
17:11
RUCHA
PATEL



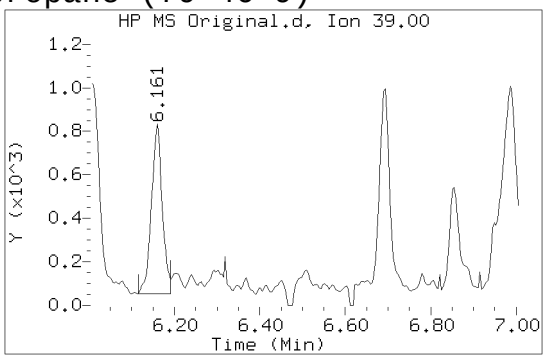
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060505.D
Inj Date : 05-JUN-2024 20:03
InstruID : VOA9.i
LabSampID : VSTD002

2-Nitropropane (79-46-9)

Reason Code:

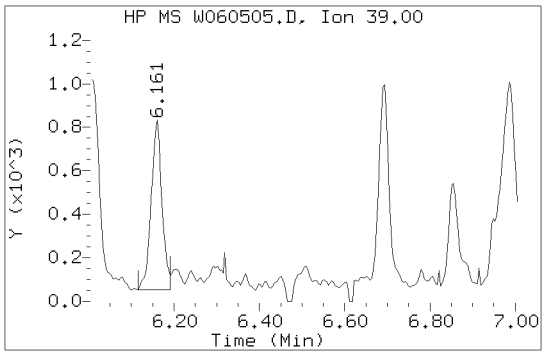
BEFORE

MASS
39
AREA
1372
HEIGHT
780
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
39
AREA
1372
HEIGHT
780
21-Jun-2024
17:11
RUCHA
PATEL

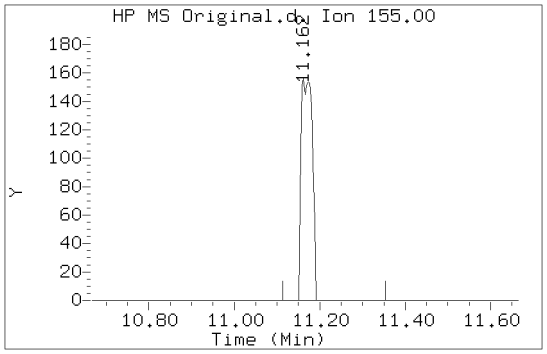


1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

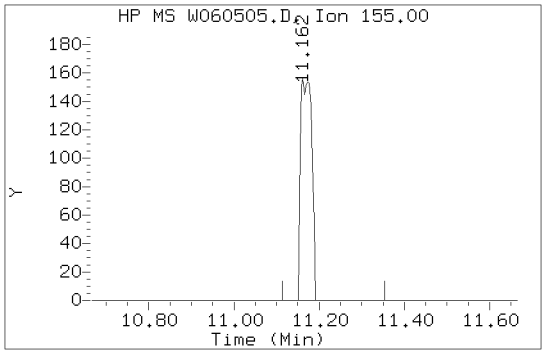
BEFORE

MASS
155
AREA
293
HEIGHT
156
21-Jun-2024
17:11
RUCHA
PATEL



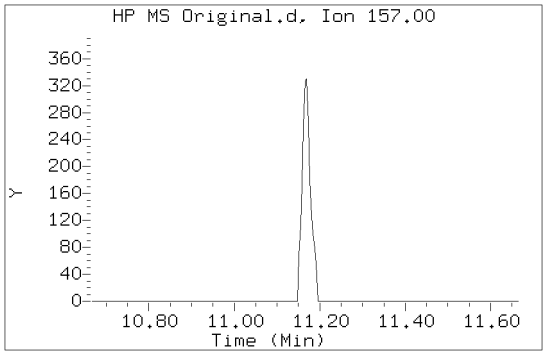
AFTER

MASS
155
AREA
293
HEIGHT
156
21-Jun-2024
17:11
RUCHA
PATEL



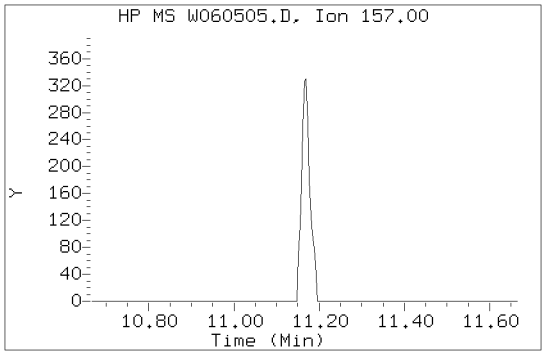
BEFORE

MASS
157
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



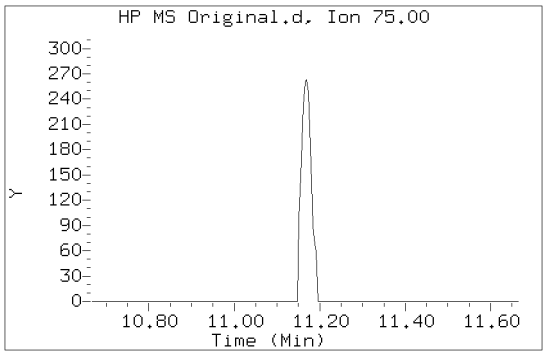
AFTER

MASS
157
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



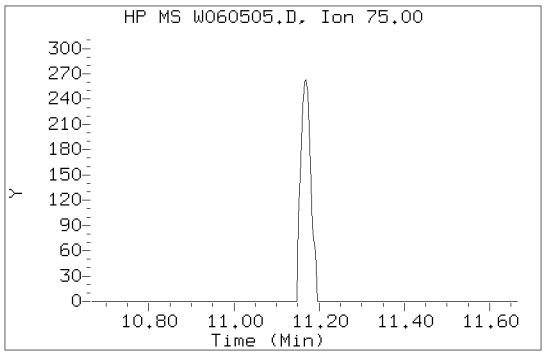
BEFORE

MASS
75
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
75
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



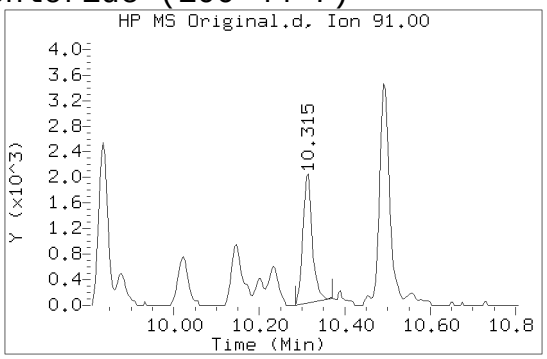
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060505.D
Inj Date : 05-JUN-2024 20:03
InstruID : VOA9.i
LabSampID : VSTD002

Benzyl Chloride (100-44-7)

Reason Code:

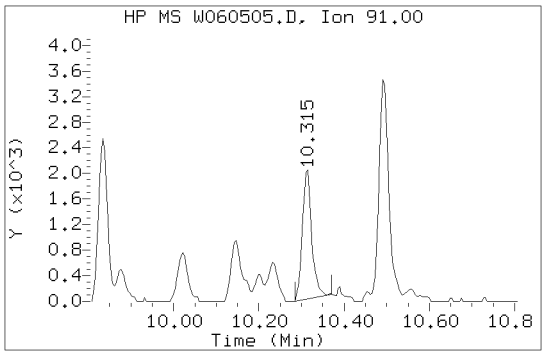
BEFORE

MASS
91
AREA
3116
HEIGHT
2020
21-Jun-2024
17:11
RUCHA
PATEL



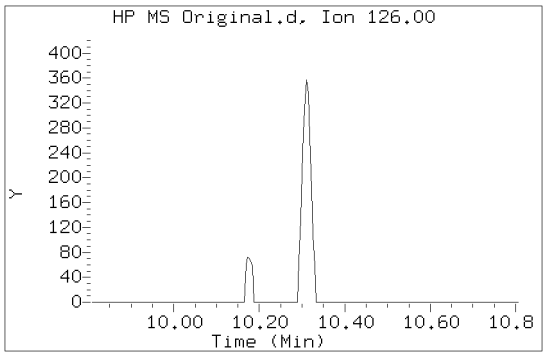
AFTER

MASS
91
AREA
3116
HEIGHT
2020
21-Jun-2024
17:11
RUCHA
PATEL



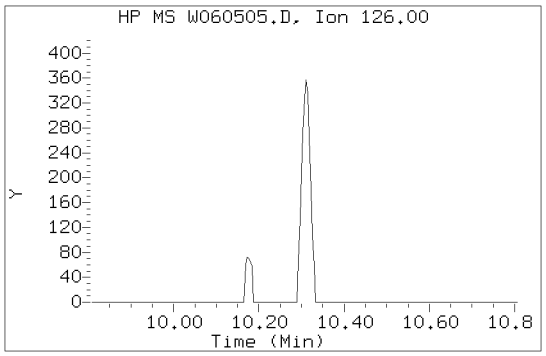
BEFORE

MASS
126
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



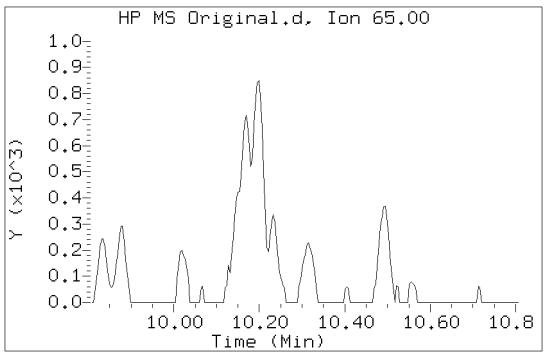
AFTER

MASS
126
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



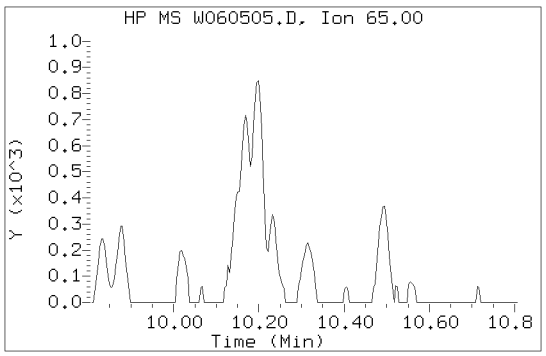
BEFORE

MASS
65
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
65
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

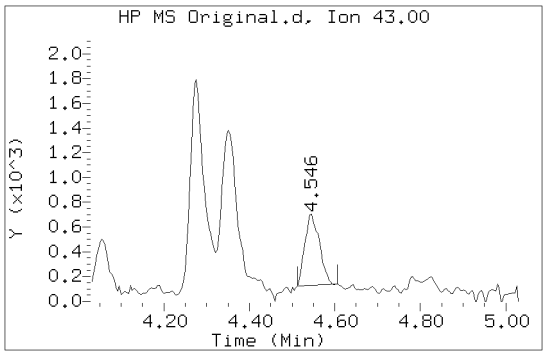


Ethyl Acetate (141-78-6)

Reason Code:

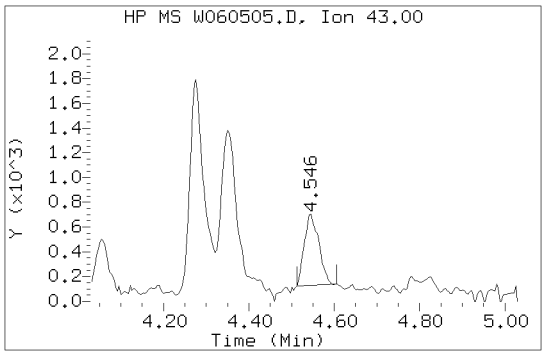
BEFORE

MASS
43
AREA
1381
HEIGHT
577
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
43
AREA
1381
HEIGHT
577
21-Jun-2024
17:11
RUCHA
PATEL



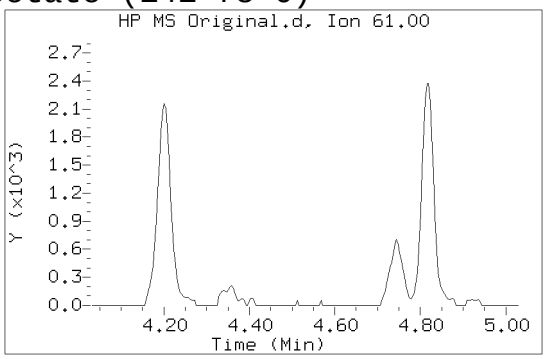
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060505.D
Inj Date : 05-JUN-2024 20:03
InstruID : VOA9.i
LabSampID : VSTD002

Ethyl Acetate (141-78-6)

Reason Code:

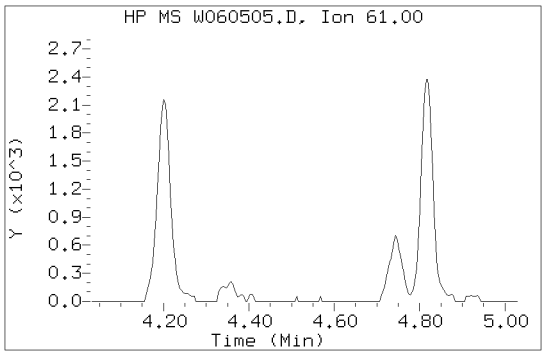
BEFORE

MASS
61
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



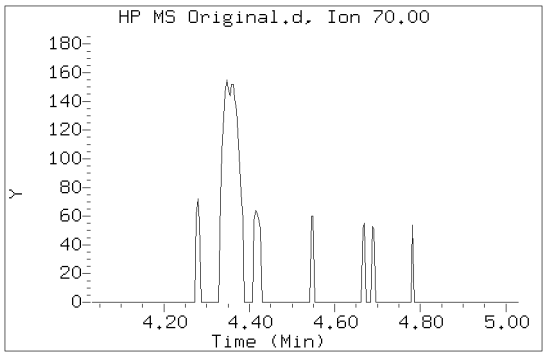
AFTER

MASS
61
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



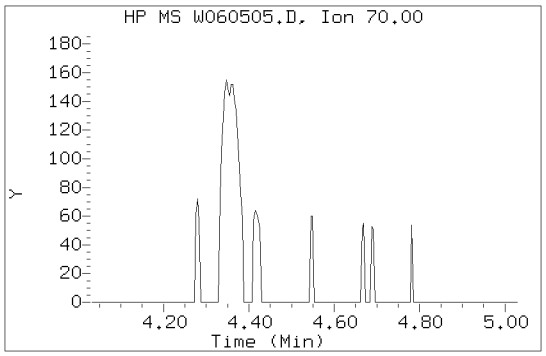
BEFORE

MASS
70
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
70
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

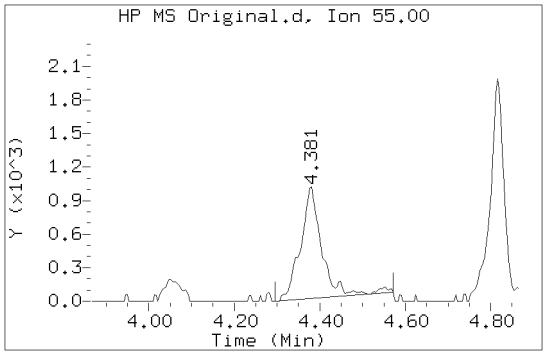


Methyl Acrylate (96-33-3)

Reason Code:

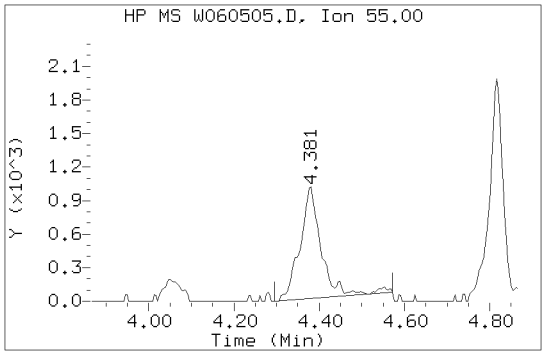
BEFORE

MASS
55
AREA
3454
HEIGHT
995
21-Jun-2024
17:11
RUCHA
PATEL



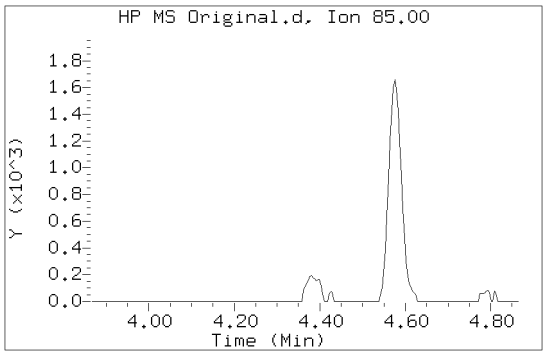
AFTER

MASS
55
AREA
3454
HEIGHT
995
21-Jun-2024
17:11
RUCHA
PATEL



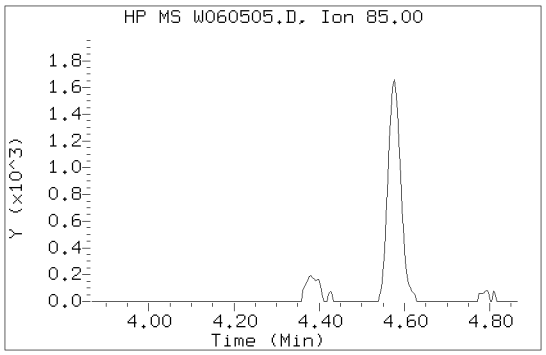
BEFORE

MASS
85
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
85
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



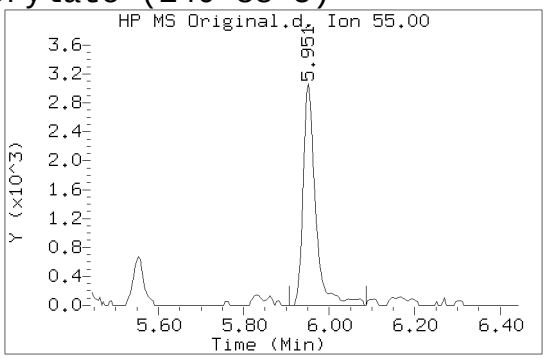
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060505.D
Inj Date : 05-JUN-2024 20:03
InstruID : VOA9.i
LabSampID : VSTD002

Ethyl Acrylate (140-88-5)

Reason Code:

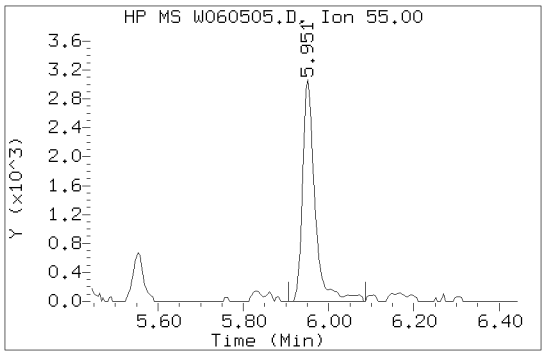
BEFORE

MASS
55
AREA
6251
HEIGHT
3066
21-Jun-2024
17:11
RUCHA
PATEL



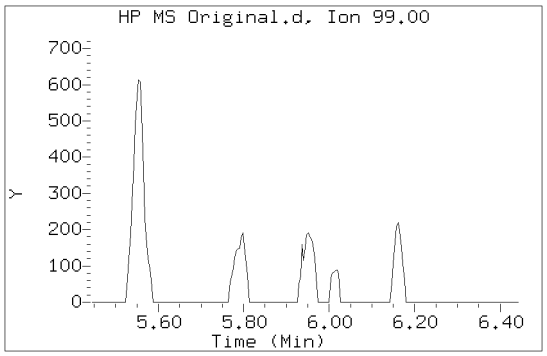
AFTER

MASS
55
AREA
6251
HEIGHT
3066
21-Jun-2024
17:11
RUCHA
PATEL



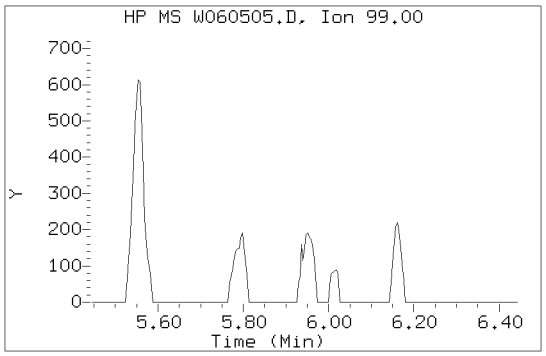
BEFORE

MASS
99
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
99
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

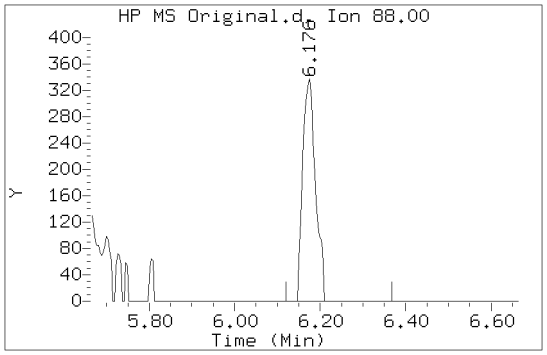


1,4-Dioxane ()

Reason Code:

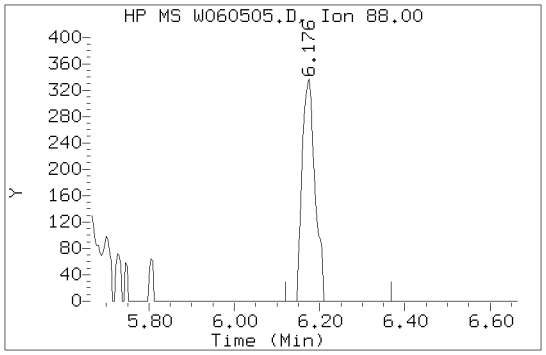
BEFORE

MASS
88
AREA
711
HEIGHT
337
21-Jun-2024
17:11
RUCHA
PATEL



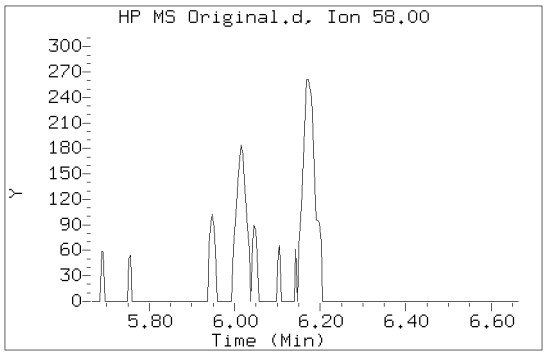
AFTER

MASS
88
AREA
711
HEIGHT
337
21-Jun-2024
17:11
RUCHA
PATEL



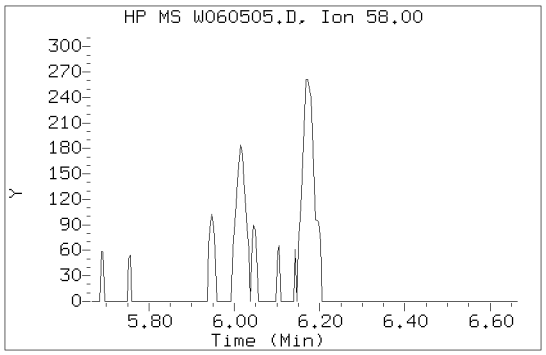
BEFORE

MASS
58
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
58
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



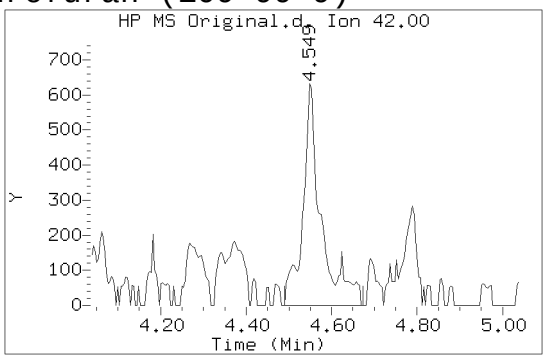
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060505.D
Inj Date : 05-JUN-2024 20:03
InstruID : VOA9.i
LabSampID : VSTD002

Tetrahydrofuran (109-99-9)

Reason Code:

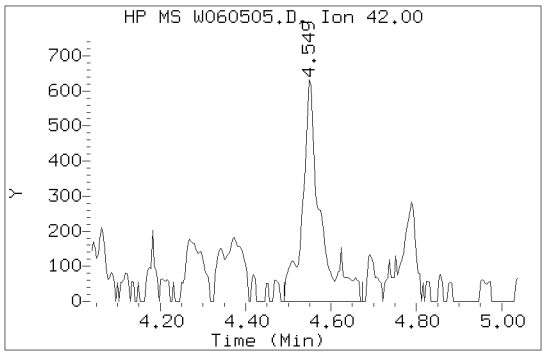
BEFORE

MASS
42
AREA
1871
HEIGHT
632
21-Jun-2024
17:11
RUCHA
PATEL



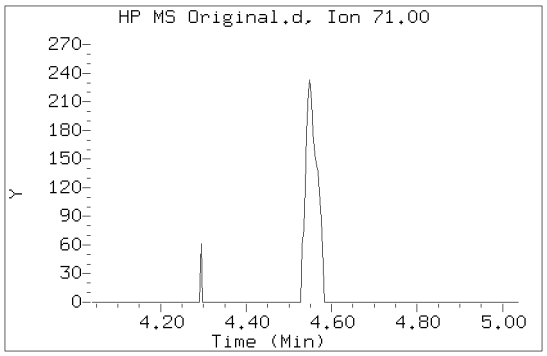
AFTER

MASS
42
AREA
1871
HEIGHT
632
21-Jun-2024
17:11
RUCHA
PATEL



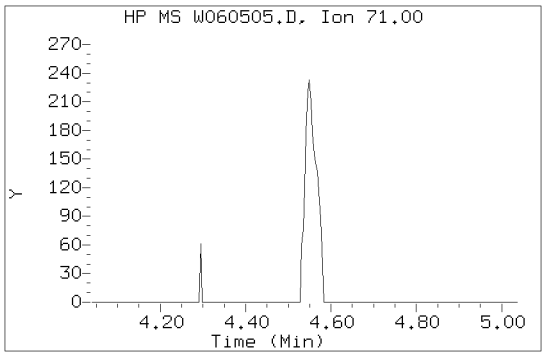
BEFORE

MASS
71
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
71
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

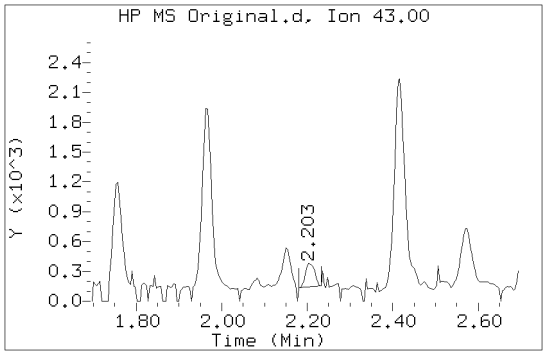


Propylene oxide ()

Reason Code:

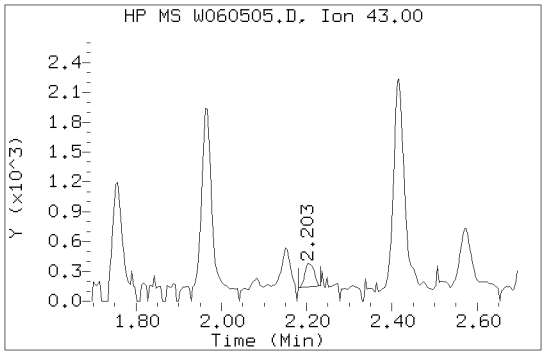
BEFORE

MASS
43
AREA
361
HEIGHT
240
21-Jun-2024
17:11
RUCHA
PATEL



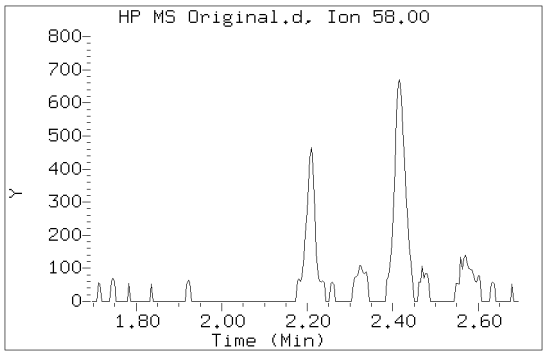
AFTER

MASS
43
AREA
361
HEIGHT
240
21-Jun-2024
17:11
RUCHA
PATEL



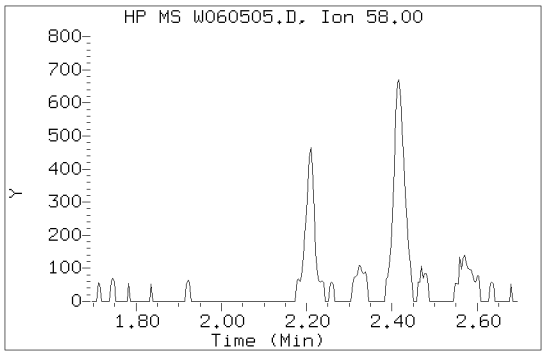
BEFORE

MASS
58
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
58
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



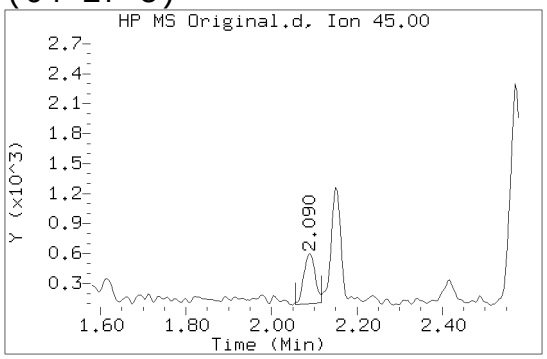
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060505.D
Inj Date : 05-JUN-2024 20:03
InstruID : VOA9.i
LabSampID : VSTD002

Ethanol (64-17-5)

Reason Code:

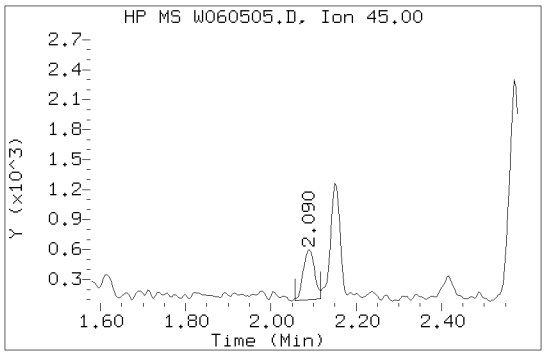
BEFORE

MASS
45
AREA
938
HEIGHT
502
21-Jun-2024
17:11
RUCHA
PATEL



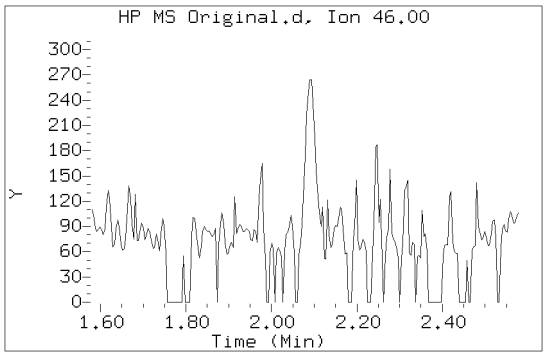
AFTER

MASS
45
AREA
938
HEIGHT
502
21-Jun-2024
17:11
RUCHA
PATEL



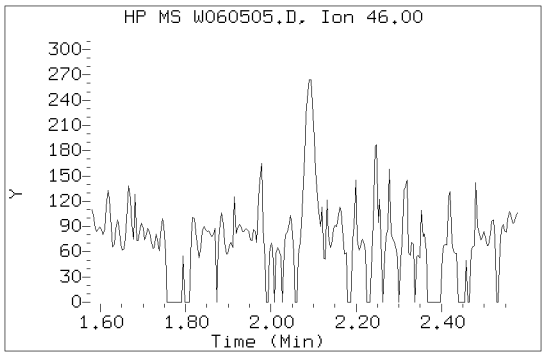
BEFORE

MASS
46
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



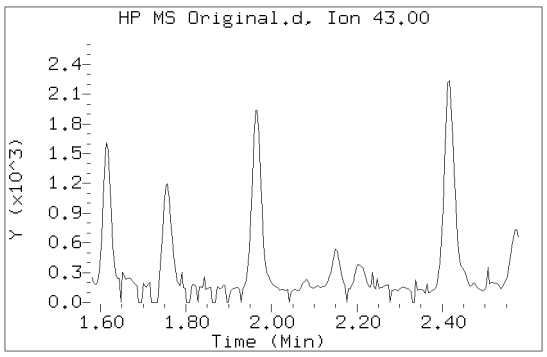
AFTER

MASS
46
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



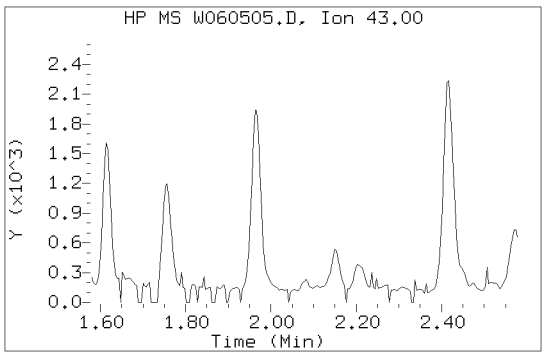
BEFORE

MASS
43
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
43
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

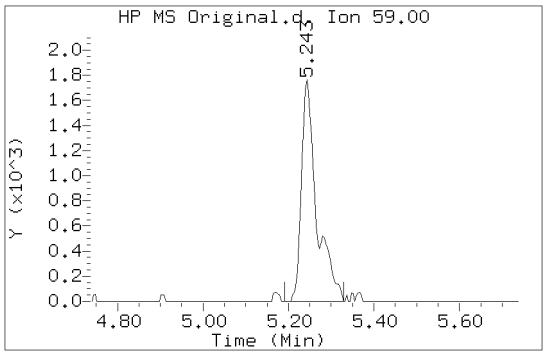


tert-Butyl formate (762-75-4)

Reason Code:

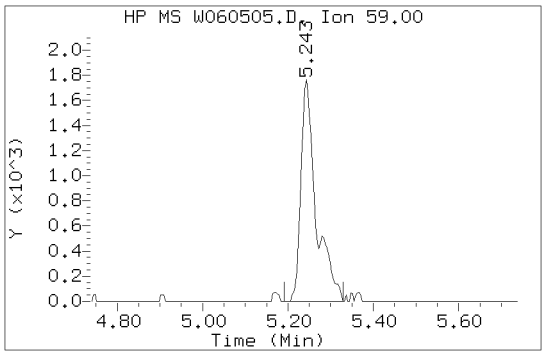
BEFORE

MASS
59
AREA
4441
HEIGHT
1765
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
59
AREA
4441
HEIGHT
1765
21-Jun-2024
17:11
RUCHA
PATEL



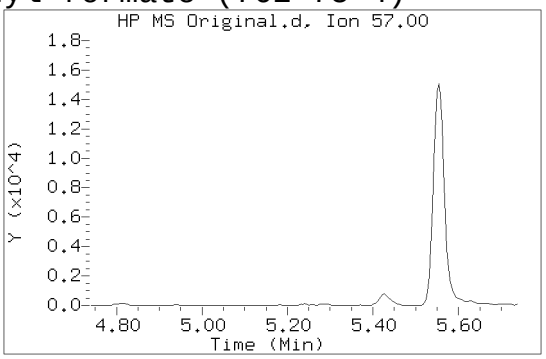
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060505.D
Inj Date : 05-JUN-2024 20:03
InstruID : VOA9.i
LabSampID : VSTD002

tert-Butyl formate (762-75-4)

Reason Code:

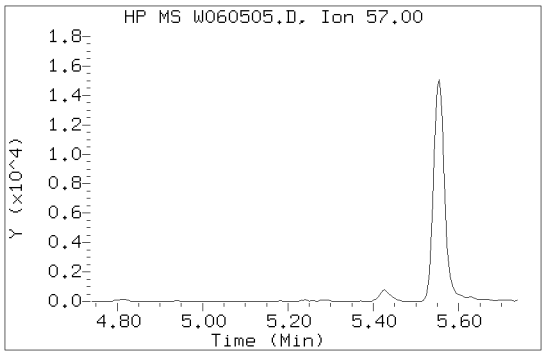
BEFORE

MASS
57
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



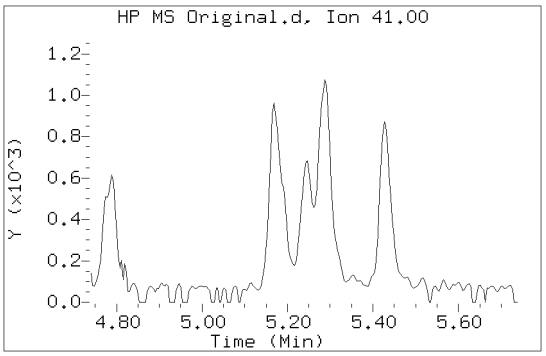
AFTER

MASS
57
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



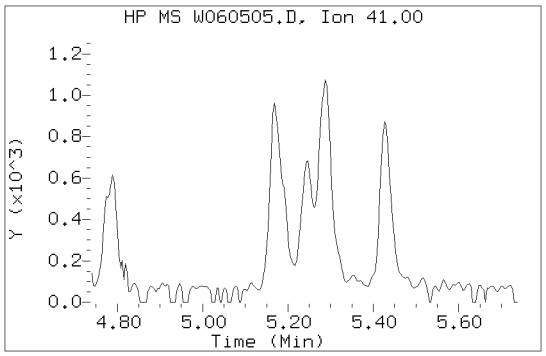
BEFORE

MASS
41
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
41
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

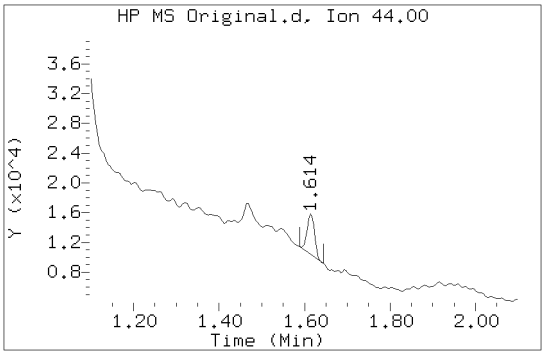


Ethylene oxide (75-21-8)

Reason Code:

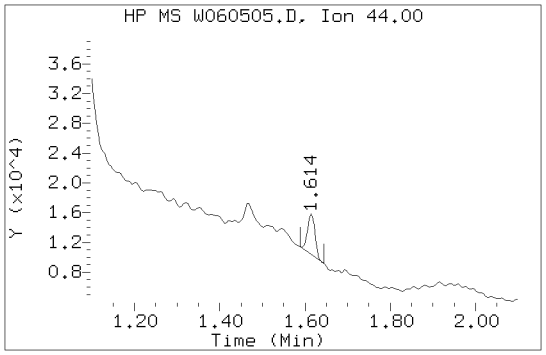
BEFORE

MASS
44
AREA
6470
HEIGHT
5390
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
44
AREA
6470
HEIGHT
5390
21-Jun-2024
17:11
RUCHA
PATEL

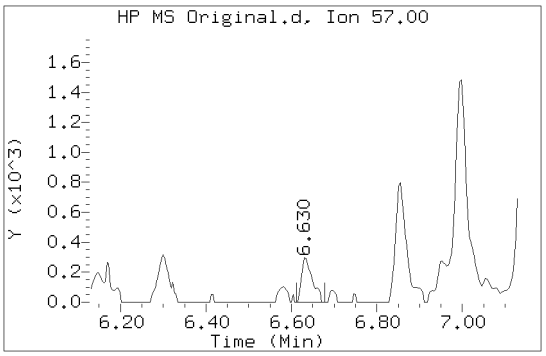


Epichlorohydrin (106-89-8)

Reason Code:

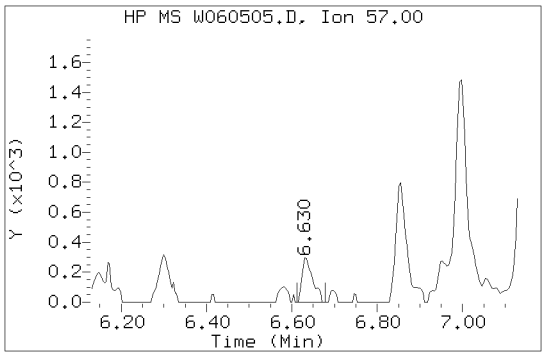
BEFORE

MASS
57
AREA
526
HEIGHT
295
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
57
AREA
526
HEIGHT
295
21-Jun-2024
17:11
RUCHA
PATEL



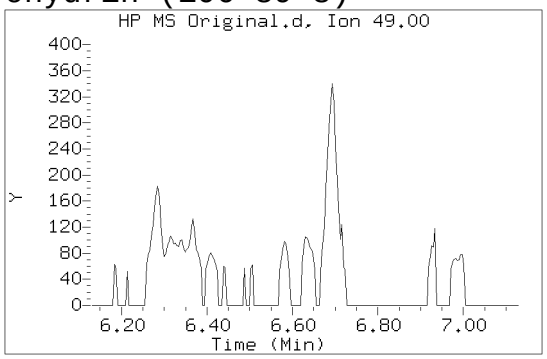
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060505.D
Inj Date : 05-JUN-2024 20:03
InstruID : VOA9.i
LabSampID : VSTD002

Epichlorohydrin (106-89-8)

Reason Code:

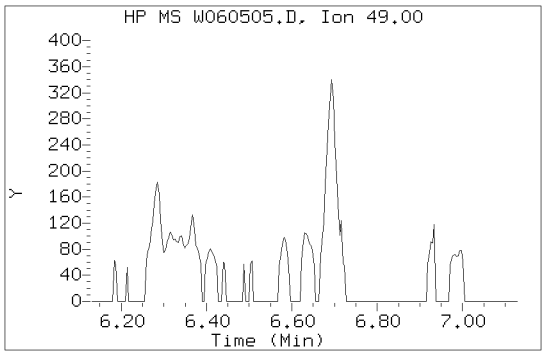
BEFORE

MASS
49
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
49
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

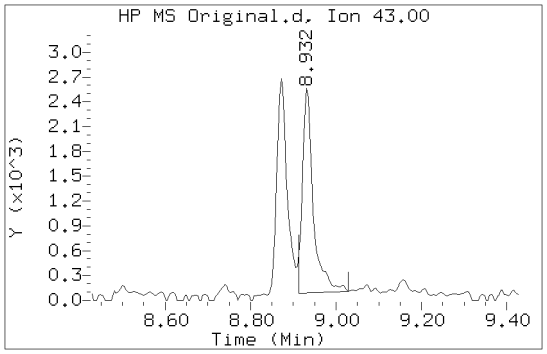


n-Amyl acetate (628-63-7)

Reason Code:

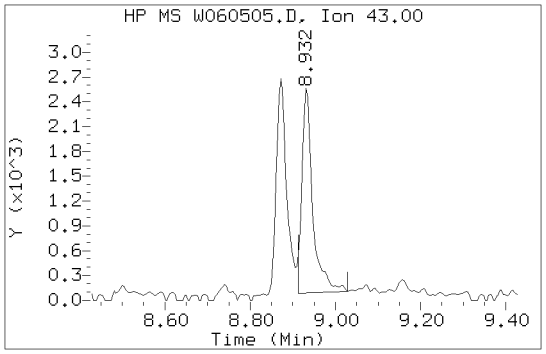
BEFORE

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HEIGHT
2474
21-Jun-2024
17:11
RUCHA
PATEL



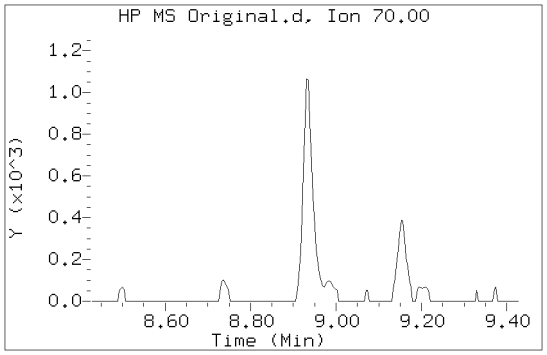
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RUCHA
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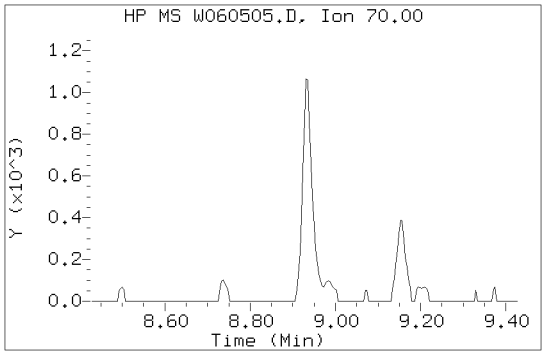
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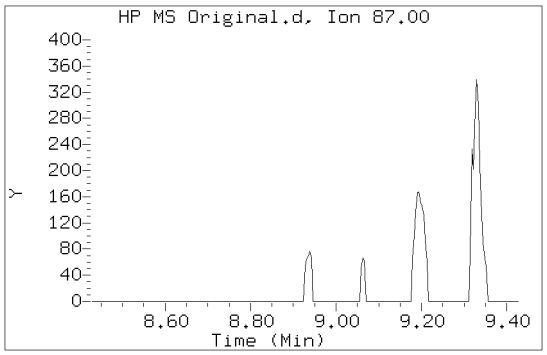
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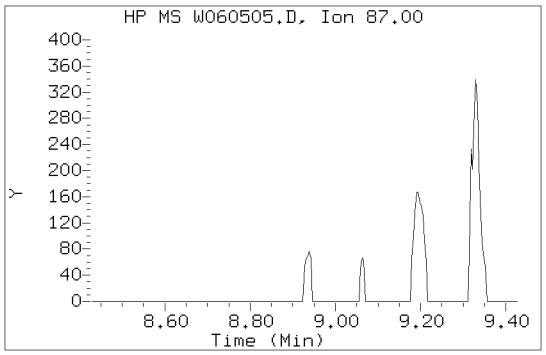
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AFTER

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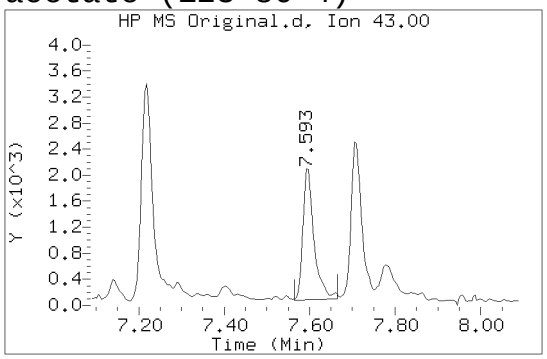
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Inj Date : 05-JUN-2024 20:03
InstruID : VOA9.i
LabSampID : VSTD002

n-Butyl acetate (123-86-4)

Reason Code:

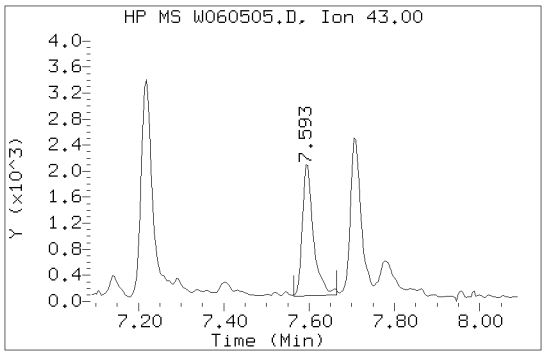
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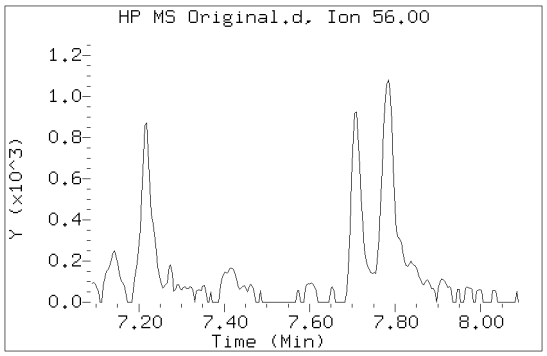
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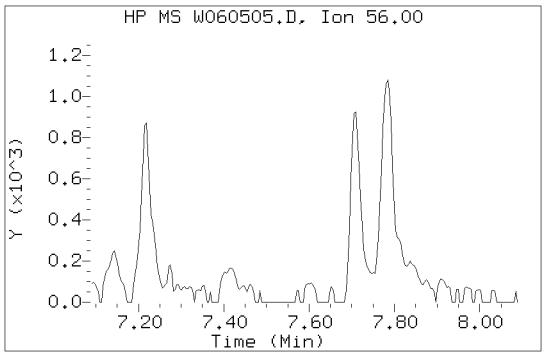
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21-Jun-2024
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RUCHA
PATEL



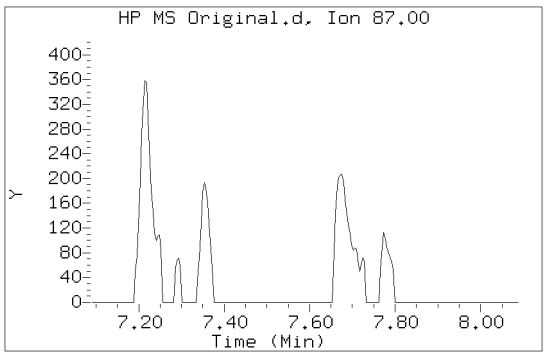
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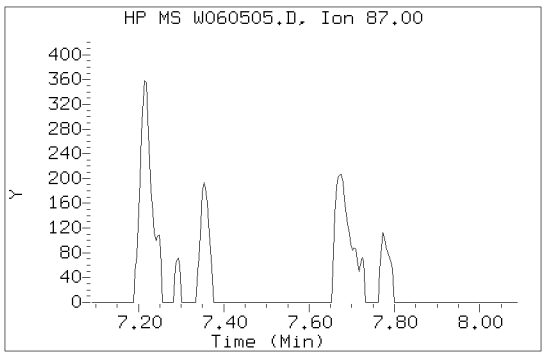
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AFTER

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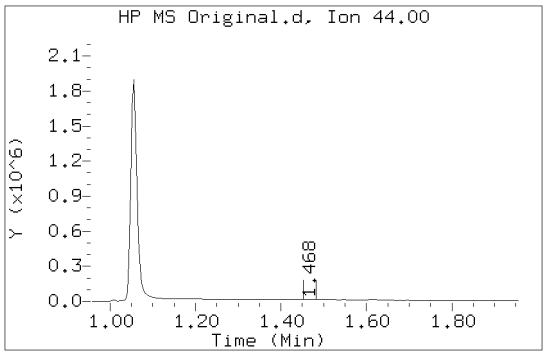


Acetaldehyde (75-07-0)

Reason Code:

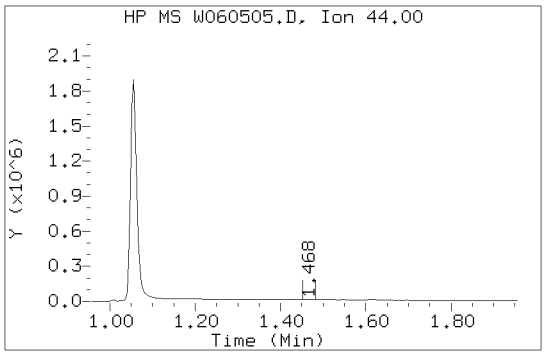
BEFORE

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HEIGHT
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21-Jun-2024
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PATEL



AFTER

MASS
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2016
HEIGHT
2041
21-Jun-2024
17:11
RUCHA
PATEL

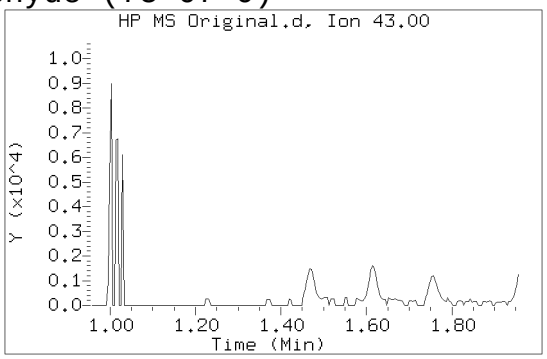


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Inj Date : 05-JUN-2024 20:03
InstruID : VOA9.i
LabSampID : VSTD002

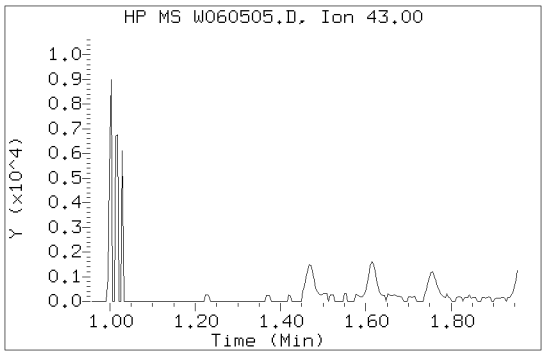
Acetaldehyde (75-07-0)

Reason Code:

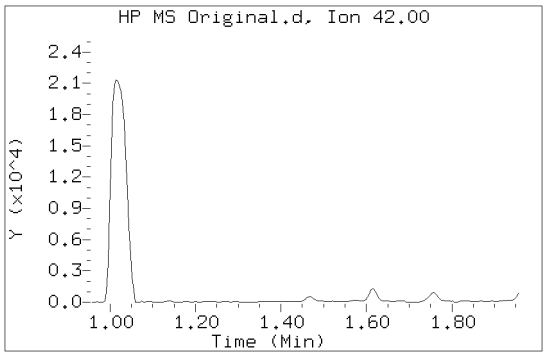
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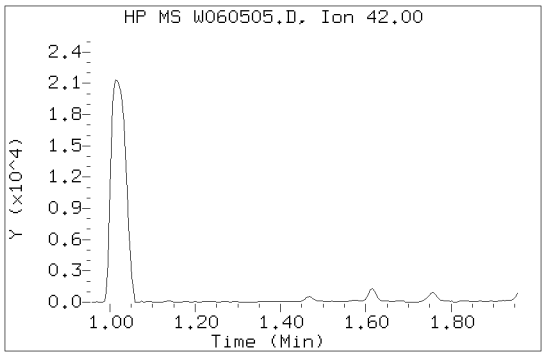
AFTER
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21-Jun-2024
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PATEL



BEFORE
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HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



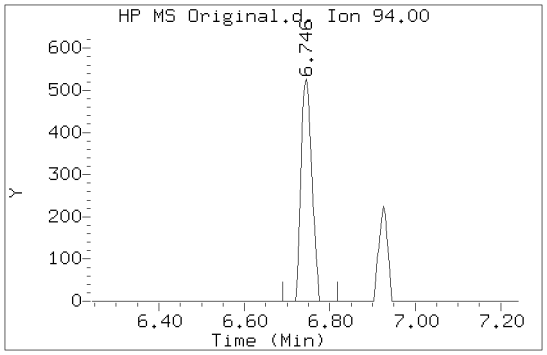
AFTER
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21-Jun-2024
17:11
RUCHA
PATEL



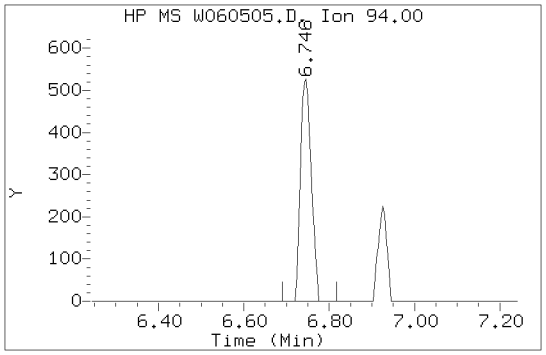
Dimethyl Disulfide (624-92-0)

Reason Code:

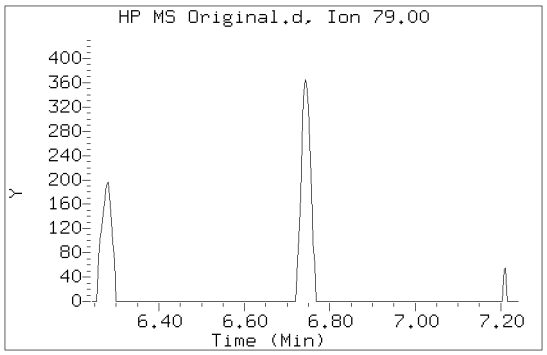
BEFORE
MASS
94
AREA
946
HEIGHT
527
21-Jun-2024
17:11
RUCHA
PATEL



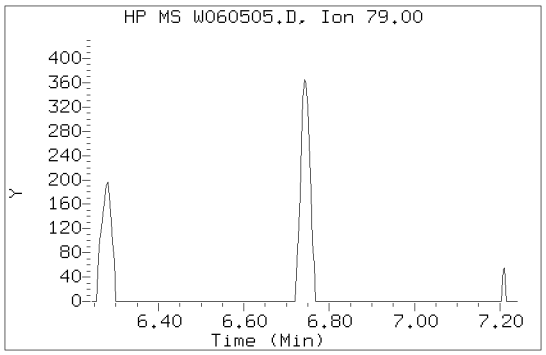
AFTER
MASS
94
AREA
946
HEIGHT
527
21-Jun-2024
17:11
RUCHA
PATEL



BEFORE
MASS
79
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER
MASS
79
AREA
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HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



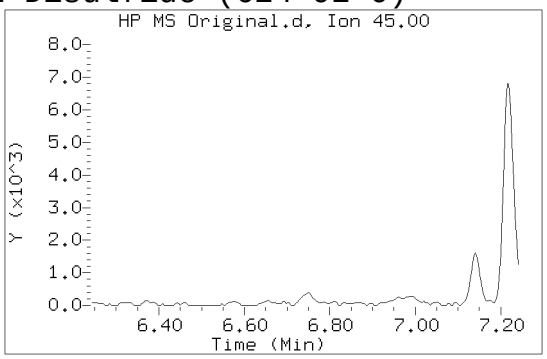
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Inj Date : 05-JUN-2024 20:03
InstruID : VOA9.i
LabSampID : VSTD002

Dimethyl Disulfide (624-92-0)

Reason Code:

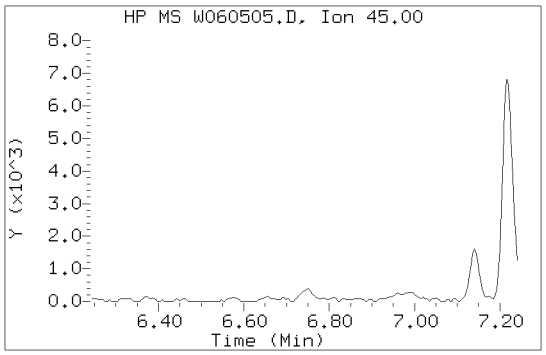
BEFORE

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21-Jun-2024
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PATEL



AFTER

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HEIGHT
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21-Jun-2024
17:11
RUCHA
PATEL

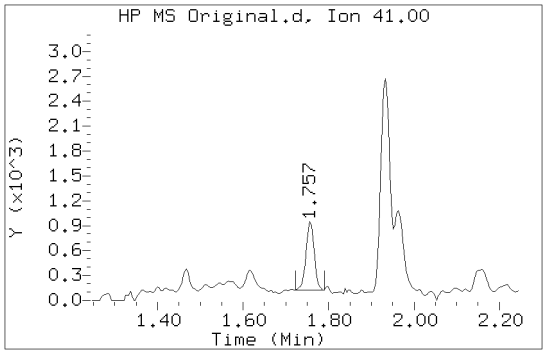


Isobutylene (115-11-7)

Reason Code:

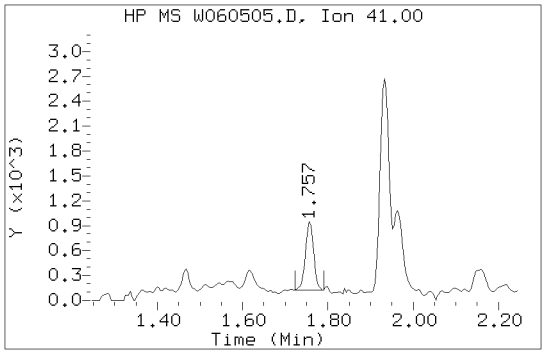
BEFORE

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1101
HEIGHT
828
21-Jun-2024
17:11
RUCHA
PATEL



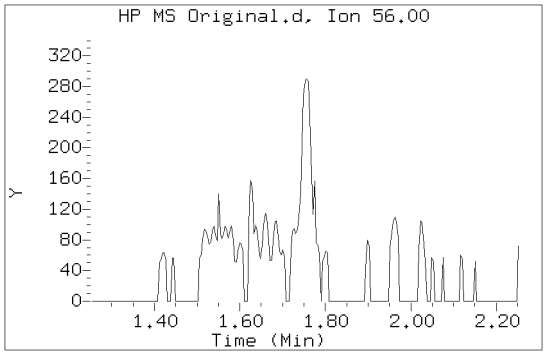
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828
21-Jun-2024
17:11
RUCHA
PATEL



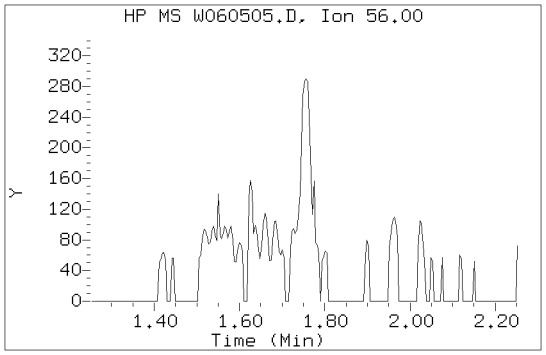
BEFORE

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17:11
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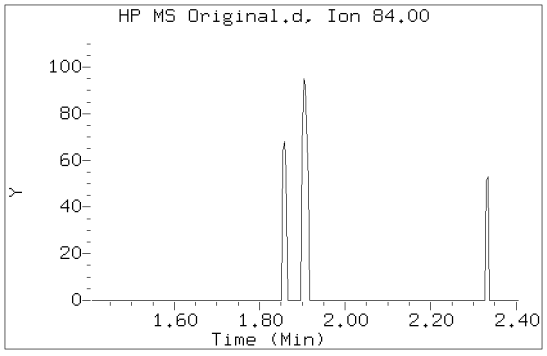
AFTER

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21-Jun-2024
17:11
RUCHA
PATEL



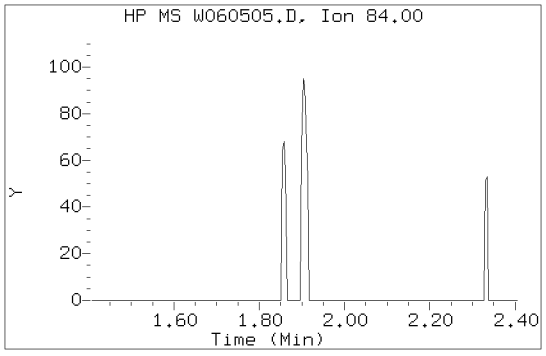
BEFORE

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21-Jun-2024
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AFTER

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21-Jun-2024
17:11
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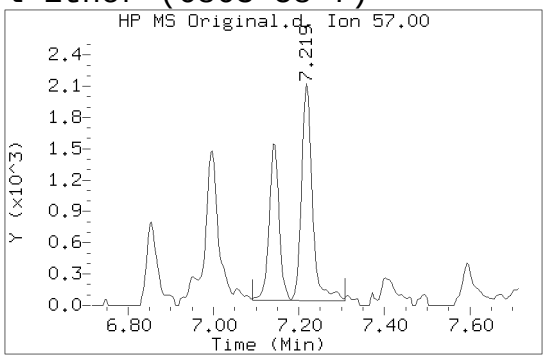
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Inj Date : 05-JUN-2024 20:03
InstruID : VOA9.i
LabSampID : VSTD002

sec-Butyl Ether (6863-58-7)

Reason Code:

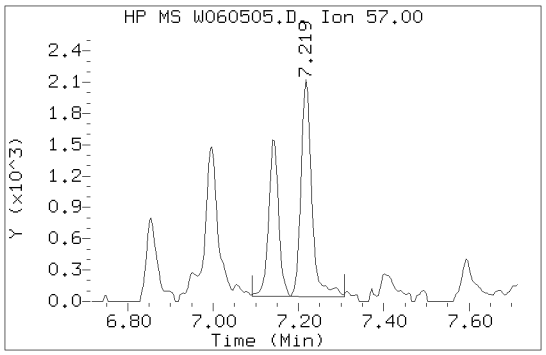
BEFORE

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AREA
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HEIGHT
2077
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
57
AREA
6163
HEIGHT
2077
21-Jun-2024
17:11
RUCHA
PATEL



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060506.D Page 1
Report Date: 21-Jun-2024 17:11

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060506.D
Lab Smp Id: VSTD005 Client Smp ID: VSTD005
Inj Date : 05-JUN-2024 20:24
Operator : TS Inst ID: VOA9.i
Smp Info : VSTD005;VSTD005;1;5
Misc Info : V9;WATER;0;1;
Comment   :
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Meth Date : 21-Jun-2024 17:11 VOA9.i Quant Type: ISTD
Cal Date : 05-JUN-2024 20:03 Cal File: W060505.D
Als bottle: 8 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.815	4.815	(1.000)	205178	50.0000	
2	Dichlorodifluoromethane	85	1.168	1.168	(0.243)	3261	5.00000	5.83
3	Chloromethane	50	1.299	1.299	(0.270)	16295	5.00000	3.78
4	Propionitrile	54	4.343	4.343	(0.902)	10006	50.0000	51.63(a)
5	Vinyl Chloride	62	1.378	1.378	(0.286)	7475	5.00000	5.36
6	Bromomethane	94	1.618	1.618	(0.336)	3935	5.00000	5.75
7	Chloroethane	64	1.700	1.700	(0.353)	5724	5.00000	5.51
8	Trichlorofluoromethane	101	1.895	1.895	(0.394)	9913	5.00000	5.51
9	Acrolein	56	2.266	2.266	(0.471)	842	10.0000	9.07(a)
10	Acetone	43	2.412	2.412	(0.501)	7303	10.0000	9.66
11	1,1-Dichloroethene	96	2.334	2.334	(0.485)	6204	5.00000	5.27
12	Isobutyl Alcohol	43	5.284	5.284	(1.097)	19318	100.000	88.52(a)
13	Acetonitrile	39	2.671	2.671	(0.555)	8857	50.0000	53.77(a)
14	Allyl Chloride	41	2.671	2.671	(0.555)	19908	5.00000	5.24(a)
15	Iodomethane	142	2.465	2.465	(0.512)	2881	10.0000	10.25(T)
16	Acrylonitrile	53	3.068	3.068	(0.637)	5811	10.0000	9.97
17	Methylene Chloride	84	2.795	2.795	(0.580)	9288	5.00000	5.34
18	Methyl tert-butyl ether	73	3.083	3.083	(0.640)	18303	5.00000	5.19
19	Carbon Disulfide	76	2.521	2.521	(0.524)	31962	10.0000	9.47
20	trans-1,2-Dichloroethene	96	3.057	3.057	(0.635)	6873	5.00000	5.52

21 Vinyl Acetate	43	4.347	4.347 (0.903)	6797	10.0000	8.89(M)
22 1,1-Dichloroethane	63	3.511	3.511 (0.729)	13484	5.00000	5.18

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
23	Chloroprene	53	3.608	3.608	(0.749)	10221	5.00000	4.88(a)
24	2-Butanone	43	4.268	4.268	(0.886)	7617	10.0000	9.37
25	Methacrylonitrile	41	4.500	4.500	(0.935)	3984	5.00000	5.73(aM)
26	2,2-Dichloropropane	77	4.178	4.178	(0.868)	8057	5.00000	4.61
27	cis-1,2-Dichloroethene	96	4.197	4.197	(0.872)	7546	5.00000	5.13
28	Chloroform	83	4.572	4.572	(0.949)	13358	5.00000	4.93
29	Bromochloromethane	128	4.467	4.467	(0.928)	3834	5.00000	4.73
$ 30	Dibromofluoromethane	113	4.748	4.748	(0.986)	7370	5.00000	4.98
31	1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	9104	5.00000	4.68
32	1,1-Dichloropropene	75	4.920	4.920	(0.886)	9713	5.00000	4.97
33	1,2-Dichloroethane	62	5.175	5.175	(0.932)	11017	5.00000	4.68
34	Carbon Tetrachloride	117	4.909	4.909	(0.884)	7255	5.00000	4.50
$ 35	1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	9256	5.00000	5.13
* 36	1,4-Difluorobenzene	114	5.554	5.554	(1.000)	302340	50.0000	
37	Benzene	78	5.138	5.138	(0.925)	28522	5.00000	5.09
38	Trichloroethene	130	5.790	5.790	(1.043)	7574	5.00000	5.03
39	Bromodichloromethane	83	6.277	6.277	(1.130)	7503	5.00000	4.18(a)
40	Methyl Methacrylate	41	5.827	5.827	(1.210)	2092	5.00000	5.47(a)
41	2-Chloroethylvinyl ether	63	6.577	6.577	(1.184)	1922	10.0000	11.09(M)
42	1,2-Dichloropropane	63	6.007	6.007	(1.082)	7788	5.00000	4.79(a)
43	2-Nitropropane	43	6.506	6.506	(1.351)	1241	5.00000	4.19(aM)
44	Dibromomethane	93	6.120	6.120	(1.102)	4516	5.00000	4.72(a)
45	4-Methyl-2-Pentanone	43	6.855	6.855	(0.837)	13477	10.0000	10.62
46	cis-1,3-Dichloropropene	75	6.690	6.690	(1.204)	8170	5.00000	5.77
* 47	Chlorobenzene-d5	117	8.185	8.185	(1.000)	269792	50.0000	
$ 48	Toluene-d8	98	6.922	6.922	(0.846)	25860	5.00000	4.77(a)
49	Ethyl Methacrylate	69	7.289	7.289	(1.312)	7923	5.00000	4.05(a)
50	Toluene	91	6.978	6.978	(0.853)	28533	5.00000	4.73(a)
51	trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	5800	5.00000	5.44
52	2-Hexanone	43	7.214	7.214	(0.881)	15779	10.0000	12.78
53	1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	5854	5.00000	4.92(a)
54	1,3-Dichloropropane	76	7.496	7.496	(0.916)	11941	5.00000	4.80(a)
55	Dibromochloromethane	129	7.691	7.691	(0.940)	4936	5.00000	5.22
56	Tetrachloroethene	164	7.454	7.454	(0.911)	5855	5.00000	5.00
57	1,2-Dibromoethane	107	7.784	7.784	(0.951)	5821	5.00000	4.83(a)
58	1-Chlorohexane	55	8.193	8.193	(1.475)	8603	5.00000	6.63
59	Chlorobenzene	112	8.208	8.208	(1.003)	19728	5.00000	5.13
60	1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	5683	5.00000	4.35(a)
61	Ethylbenzene	106	8.305	8.305	(1.015)	9076	5.00000	4.71(a)
62	m,p-Xylenes	106	8.407	8.407	(1.027)	22023	10.0000	9.21(a)
63	o-Xylene	106	8.748	8.748	(1.069)	10398	5.00000	4.49(a)
64	Styrene	104	8.763	8.763	(1.071)	16435	5.00000	4.39(a)
66	Bromoform	173	8.916	8.916	(1.089)	2656	5.00000	6.22(T)
67	Isopropylbenzene	105	9.059	9.059	(1.107)	25964	5.00000	4.72(a)
68	1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	9596	5.00000	4.83(a)
$ 69	4-Bromofluorobenzene	95	9.194	9.194	(1.123)	9537	5.00000	4.86(a)
* 70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	142214	50.0000	
71	1,2,3-Trichloropropane	75	9.362	9.362	(0.921)	7709	5.00000	5.14
72	trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	1921	5.00000	5.20(a)
73	n-Propylbenzene	91	9.411	9.411	(0.926)	29520	5.00000	4.56(a)
74	Bromobenzene	156	9.318	9.318	(0.916)	7851	5.00000	5.13
75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	18454	5.00000	4.33(a)

76	2-Chlorotoluene	91	9.482	9.482 (0.933)	19688	5.00000	4.69(a)
77	4-Chlorotoluene	91	9.576	9.576 (0.942)	22361	5.00000	4.63(a)

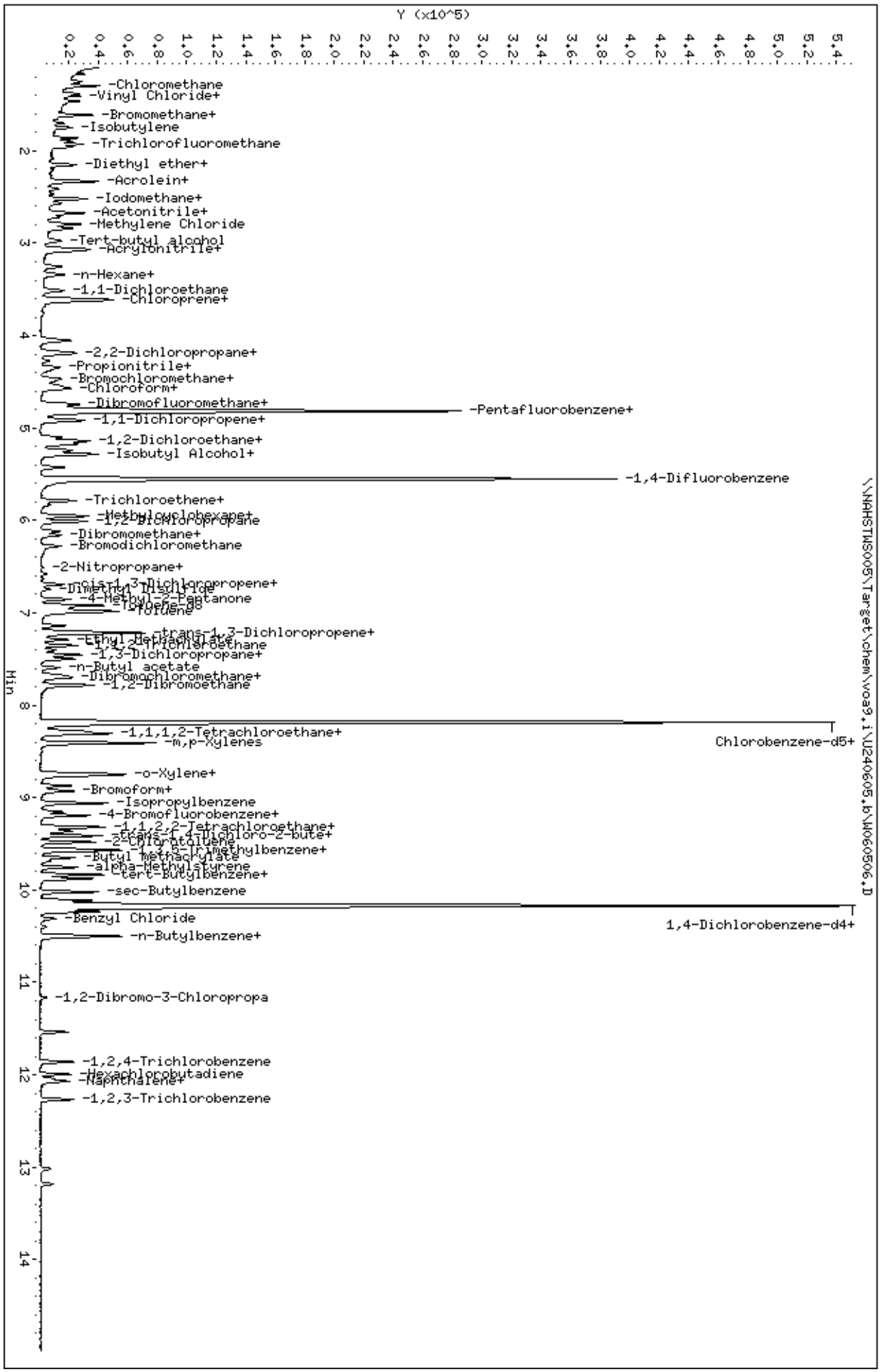
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Report Date: 21-Jun-2024 17:11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	18342	5.00000	4.71(a)
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	18693	5.00000	4.24(a)
81	sec-Butylbenzene	105	10.022	10.022	(0.986)	23796	5.00000	4.62(a)
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	19648	5.00000	4.49(a)
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.995)	13789	5.00000	4.60(a)
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	15200	5.00000	4.99(a)
86	Benzyl Chloride	91	10.311	10.311	(1.260)	6861	5.00000	5.33
87	n-Butylbenzene	91	10.491	10.491	(1.032)	17474	5.00000	5.57
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	14242	5.00000	5.05
89	1,2-Dibromo-3-Chloropropane	155	11.166	11.166	(1.098)	850	5.00000	5.15
90	1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	7290	5.00000	5.48
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	3790	5.00000	4.65(a)
92	Naphthalene	128	12.069	12.069	(1.187)	13942	5.00000	4.88(a)
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	7127	5.00000	4.34(a)
146	Methyl acetate	43	2.716	2.716	(0.564)	8440	5.00000	4.34(a)
138	Freon TF	101	2.334	2.334	(0.485)	5462	5.00000	5.42
141	Cyclohexane	56	4.785	4.785	(0.994)	12503	5.00000	7.01
142	Tetrahydrofuran	42	4.549	4.549	(0.945)	3455	10.0000	12.22(M)
147	Methylcyclohexane	55	5.947	5.947	(1.071)	14165	5.00000	4.07(a)
135	1,4-Dioxane	88	6.172	6.172	(1.282)	1522	100.000	97.90
132	n-Butanol	56	5.831	5.831	(1.211)	3386	100.000	128.06(a)
136	n-Hexane	57	3.338	3.338	(0.693)	6717	5.00000	5.77
139	Diethyl ether	59	2.146	2.146	(0.446)	5410	5.00000	5.26
148	Tert-butyl alcohol	59	2.975	2.975	(0.618)	13064	100.000	111.68
149	Isopropyl alcohol	45	2.570	2.570	(0.534)	9755	100.000	103.32(T)
156	Diisopropyl ether	45	3.623	3.623	(0.752)	22824	5.00000	5.13(T)
162	Butyl acrylate	55	8.733	8.733	(1.067)	10927	5.00000	4.10(a)
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	34343	5.00000	5.93
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	19030	5.00000	5.06
167	Ethanol	45	2.086	2.086	(0.433)	2209	100.000	111.83
172	tert-Butyl formate	59	5.243	5.243	(1.089)	11066	10.0000	9.56(M)
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.299)	32882	100.000	123.14
140	1,3-Butadiene	54	1.404	1.404	(0.292)	3506	5.00000	5.58
182	Epichlorohydrin	57	6.633	6.633	(1.194)	1322	20.0000	18.03(M)
M 94	1,2-Dichloroethylene (total)	96				14419	10.0000	(a)
130	Ethyl Acetate	43	4.542	4.542	(0.943)	3686	5.00000	4.16(aM)
131	Methyl Acrylate	55	4.377	4.377	(0.909)	7354	5.00000	5.09
189	n-Butyl acetate	43	7.593	7.593	(0.928)	8614	5.00000	4.26(aM)
134	Cyclohexanone	55	9.153	9.153	(0.900)	5950	100.000	83.83(a)
185	Isoprene	39	2.154	2.154	(0.447)	1450	5.00000	4.21(a)
188	Isopropyl acetate	43	5.284	5.284	(0.951)	19318	5.00000	4.80(a)
150	Allyl alcohol	57	3.338	3.338	(0.693)	6717	100.000	115.45
194	Acetaldehyde	44	1.464	1.464	(0.304)	6710	20.0000	22.84(M)
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	2476	5.00000	4.52(a)
202	Isobutylene	41	1.749	1.749	(0.363)	3420	5.00000	5.09(M)
133	Ethyl Acrylate	55	5.947	5.947	(1.235)	14187	5.00000	4.09(a)
163	Butyl methacrylate	41	9.647	9.647	(0.949)	8265	5.00000	5.07
159	Propylene oxide	43	2.202	2.202	(0.457)	1086	10.0000	9.43
178	Ethylene oxide	44	1.610	1.610	(0.334)	17362	10.0000	10.79(M)
203	2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	4398	5.00000	4.18(a)
204	Tetrahydrothiophene	60	7.672	7.672	(0.937)	5491	5.00000	4.29(aA)
205	sec-Butyl Ether	57	7.214	7.214	(0.881)	15592	5.00000	4.71(aAM)

187 n-Amyl acetate	43	8.931	8.931 (1.091)	11041	5.00000	4.39(aM)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.



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Client ID: VSTD005
Sample Info: VSTD005;VSTD005;1;5
Purge Volume: 5.0
Column phase: DB624

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Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

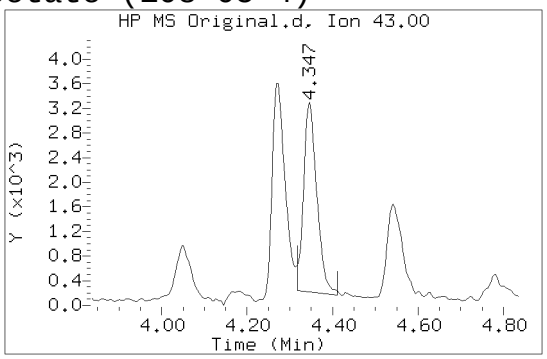
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Vinyl Acetate (108-05-4)

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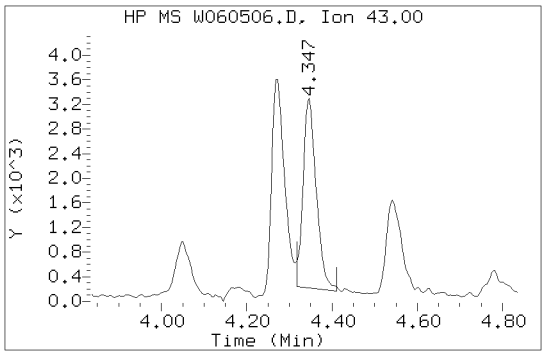
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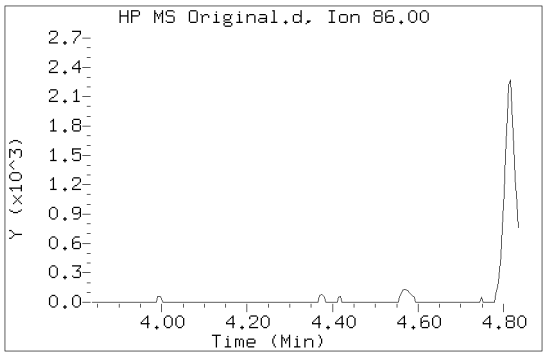
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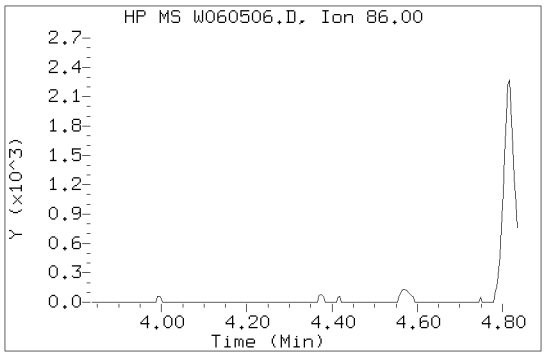
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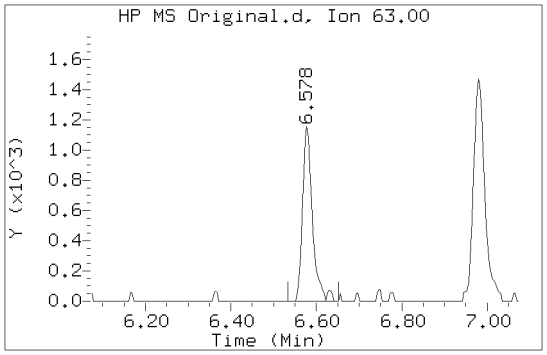


2-Chloroethylvinyl ether (110-75-8)

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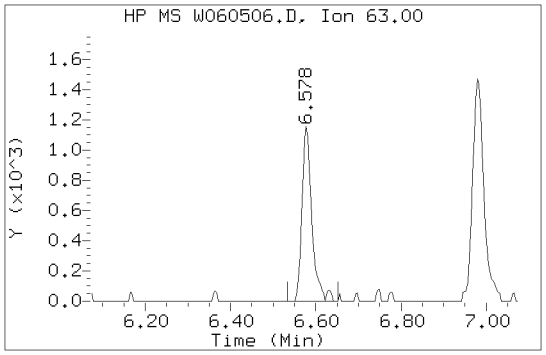
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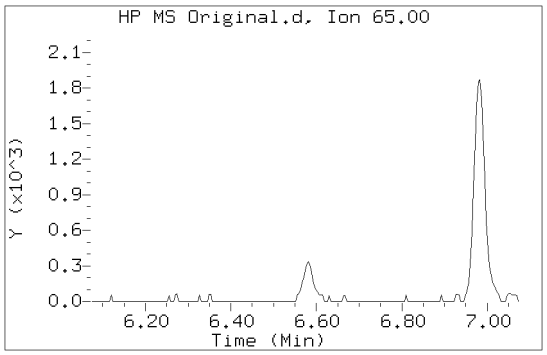
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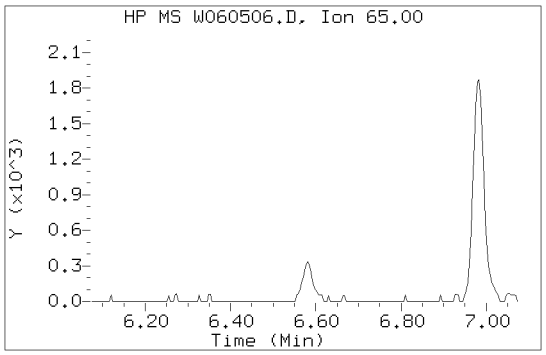
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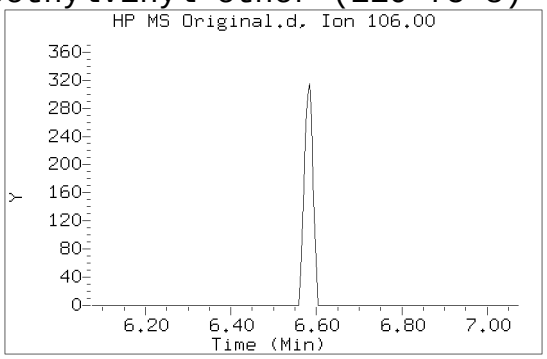
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LabSampID : VSTD005

2-Chloroethylvinyl ether (110-75-8)

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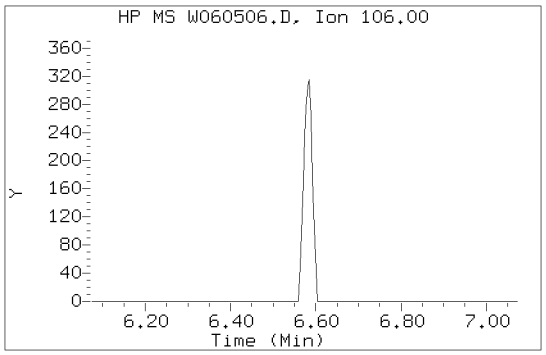
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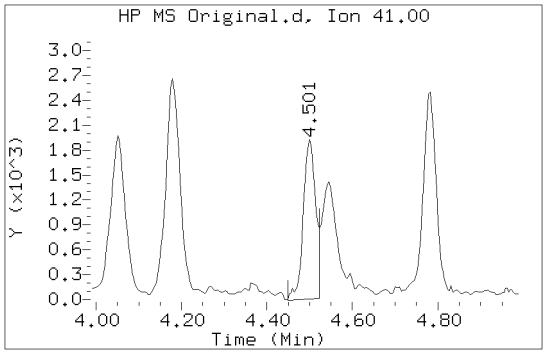


Methacrylonitrile (126-98-7)

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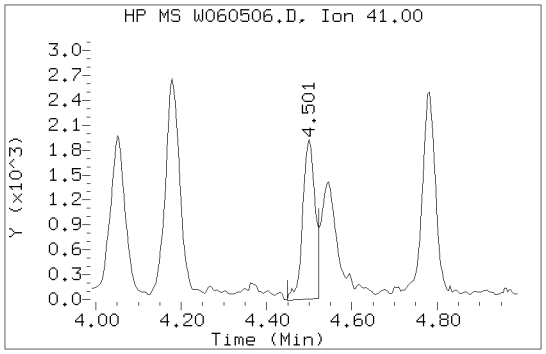
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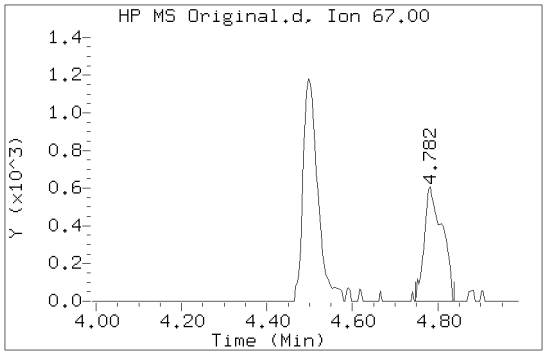
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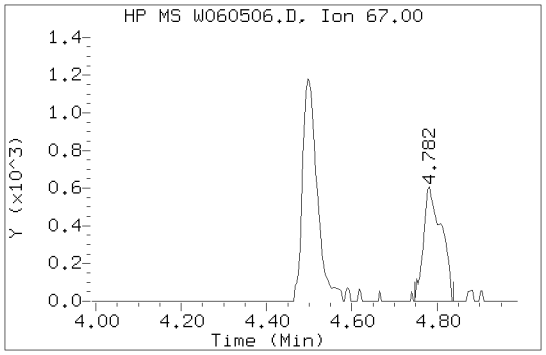
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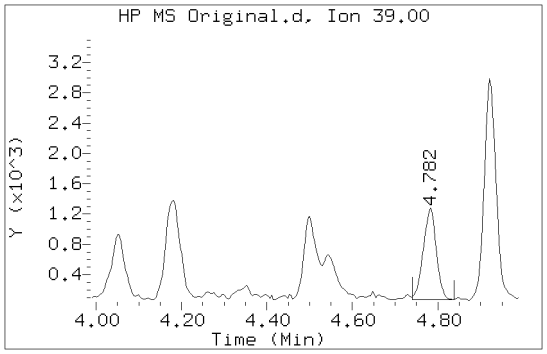
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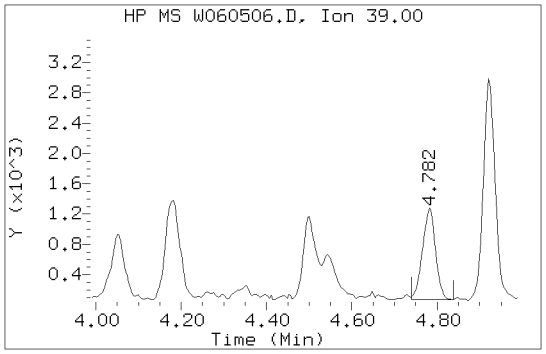
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AFTER

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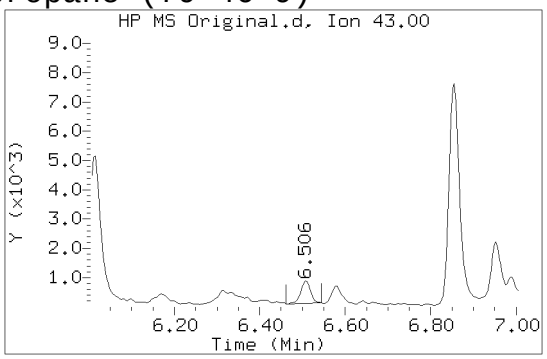
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InstruID : VOA9.i
LabSampID : VSTD005

2-Nitropropane (79-46-9)

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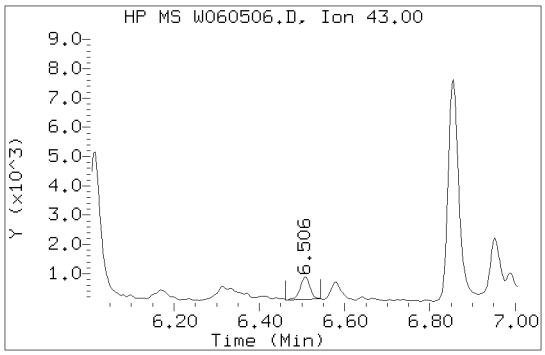
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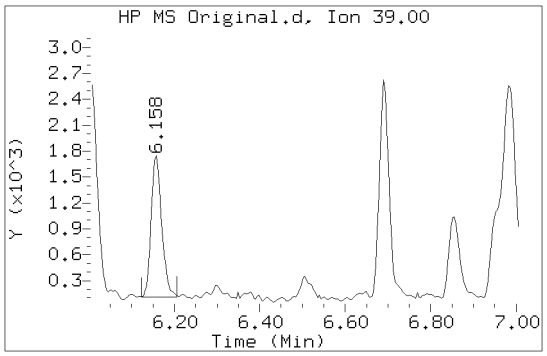
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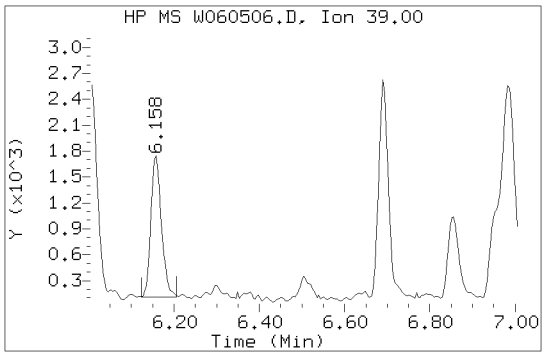
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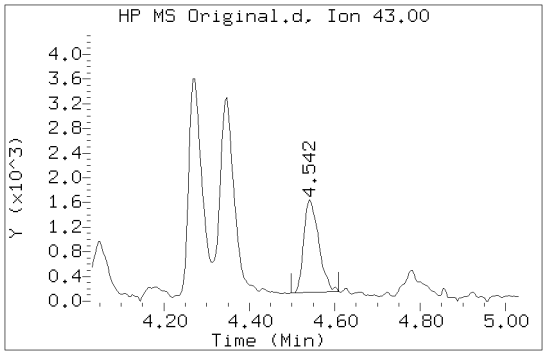


Ethyl Acetate (141-78-6)

Reason Code:

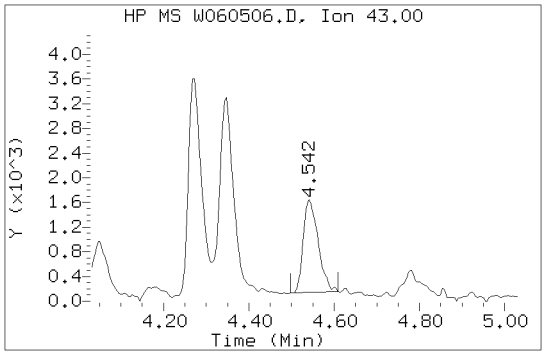
BEFORE

MASS
43
AREA
3686
HEIGHT
1501
21-Jun-2024
17:11
RUCHA
PATEL



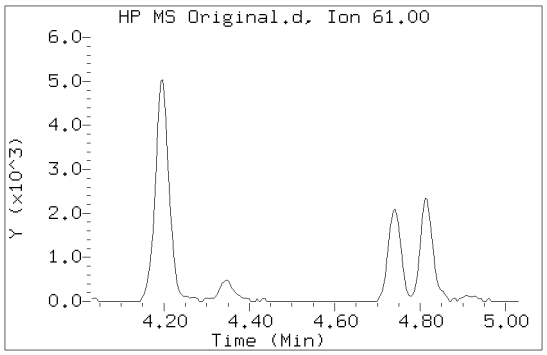
AFTER

MASS
43
AREA
3686
HEIGHT
1501
21-Jun-2024
17:11
RUCHA
PATEL



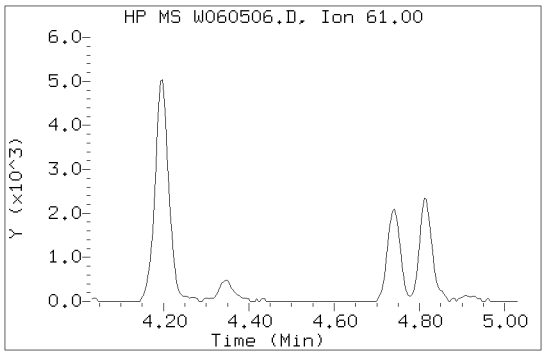
BEFORE

MASS
61
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
61
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



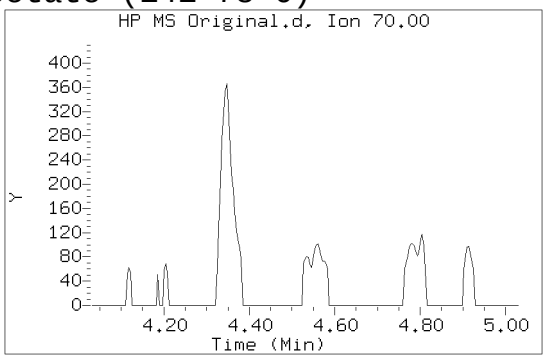
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Inj Date : 05-JUN-2024 20:24
InstruID : VOA9.i
LabSampID : VSTD005

Ethyl Acetate (141-78-6)

Reason Code:

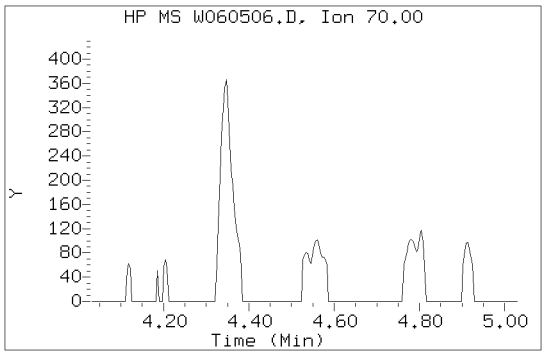
BEFORE

MASS
70
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
70
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

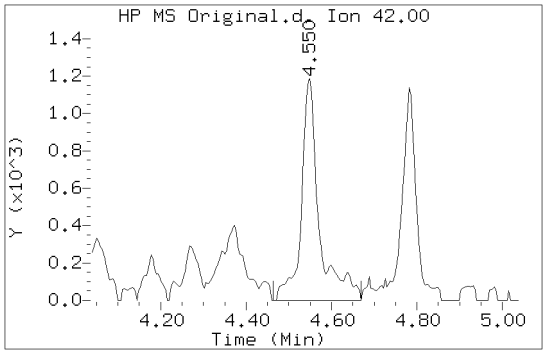


Tetrahydrofuran (109-99-9)

Reason Code:

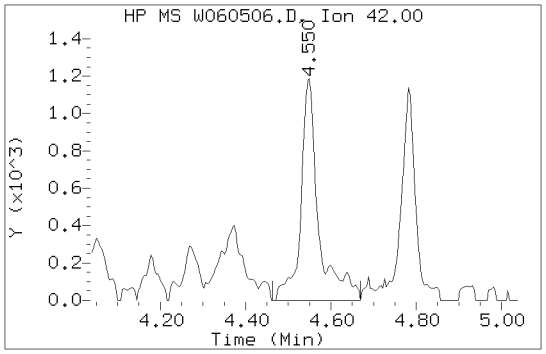
BEFORE

MASS
42
AREA
3455
HEIGHT
1186
21-Jun-2024
17:11
RUCHA
PATEL



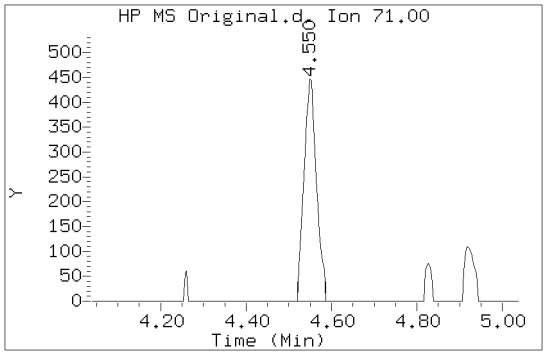
AFTER

MASS
42
AREA
3455
HEIGHT
1186
21-Jun-2024
17:11
RUCHA
PATEL



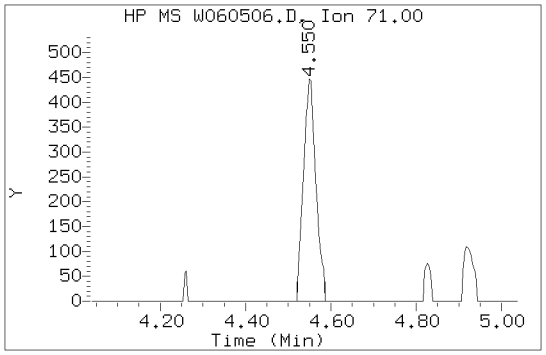
BEFORE

MASS
71
AREA
913
HEIGHT
447
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
71
AREA
913
HEIGHT
447
21-Jun-2024
17:11
RUCHA
PATEL

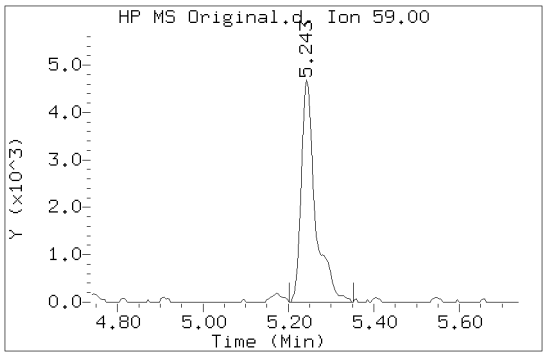


tert-Butyl formate (762-75-4)

Reason Code:

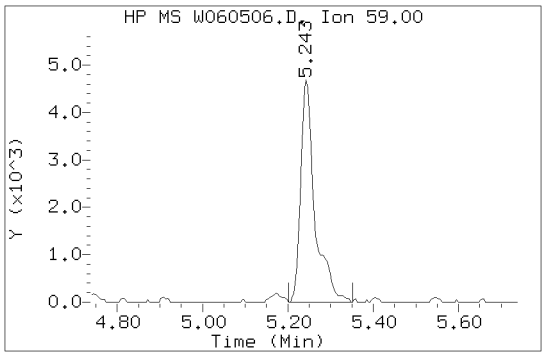
BEFORE

MASS
59
AREA
11066
HEIGHT
4687
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
59
AREA
11066
HEIGHT
4687
21-Jun-2024
17:11
RUCHA
PATEL



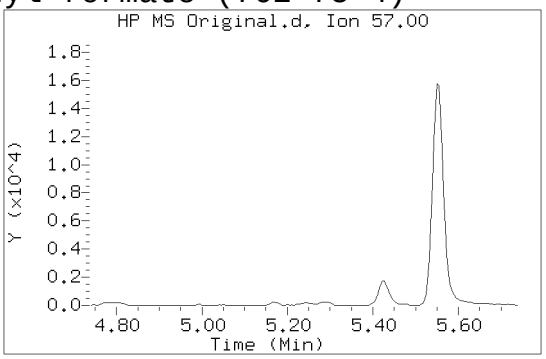
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060506.D
Inj Date : 05-JUN-2024 20:24
InstruID : VOA9.i
LabSampID : VSTD005

tert-Butyl formate (762-75-4)

Reason Code:

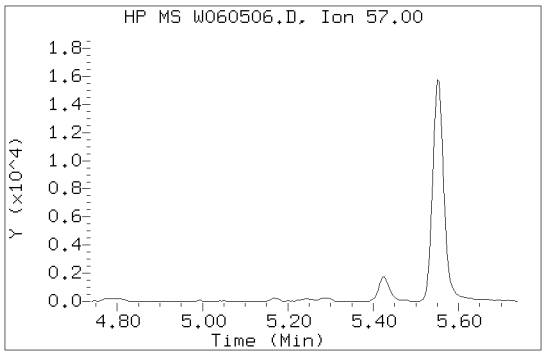
BEFORE

MASS
57
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



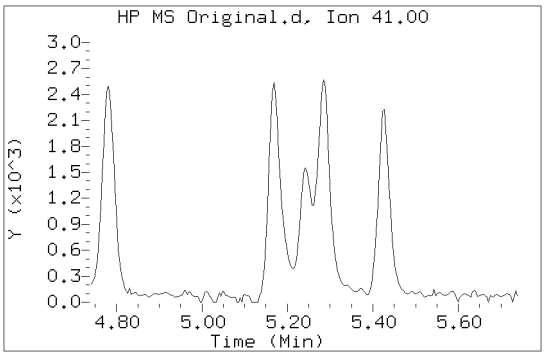
AFTER

MASS
57
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



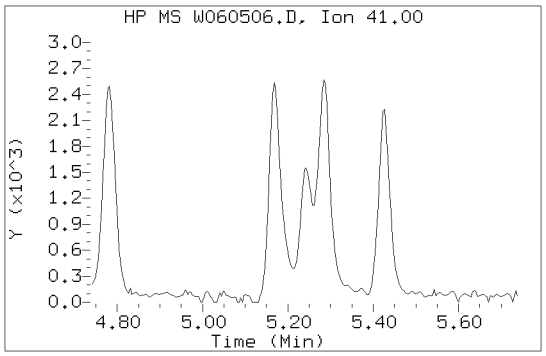
BEFORE

MASS
41
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
41
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

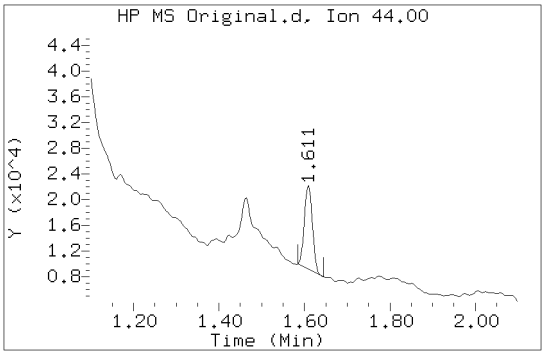


Ethylene oxide (75-21-8)

Reason Code:

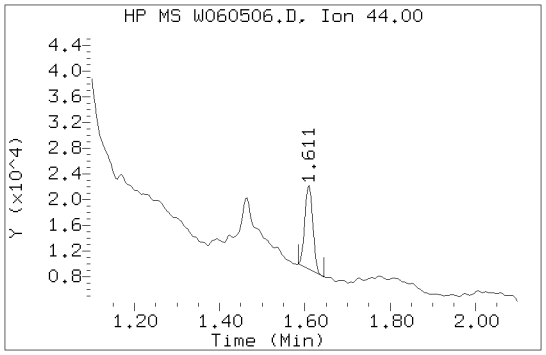
BEFORE

MASS
44
AREA
17362
HEIGHT
13101
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
44
AREA
17362
HEIGHT
13101
21-Jun-2024
17:11
RUCHA
PATEL

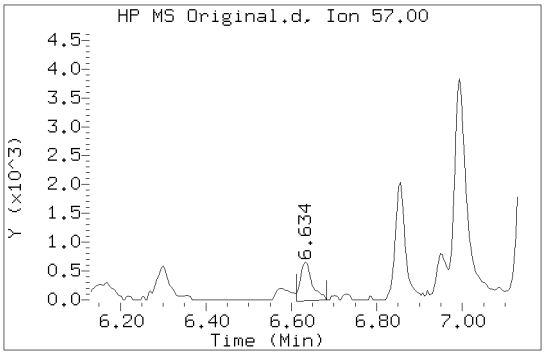


Epichlorohydrin (106-89-8)

Reason Code:

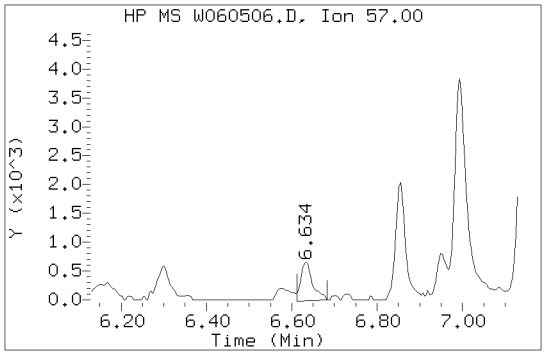
BEFORE

MASS
57
AREA
1322
HEIGHT
677
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
57
AREA
1322
HEIGHT
677
21-Jun-2024
17:11
RUCHA
PATEL



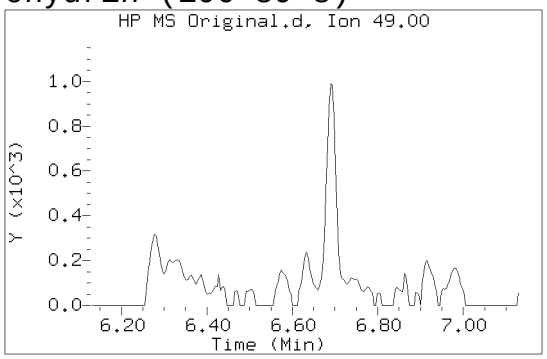
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060506.D
Inj Date : 05-JUN-2024 20:24
InstruID : VOA9.i
LabSampID : VSTD005

Epichlorohydrin (106-89-8)

Reason Code:

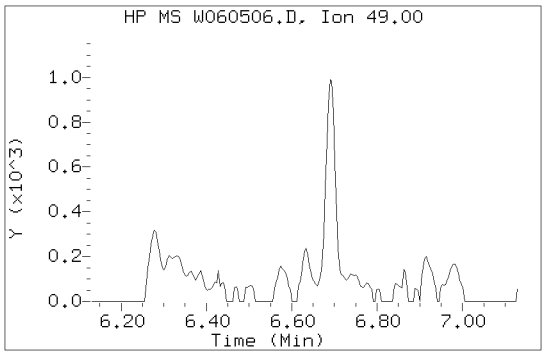
BEFORE

MASS
49
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
49
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

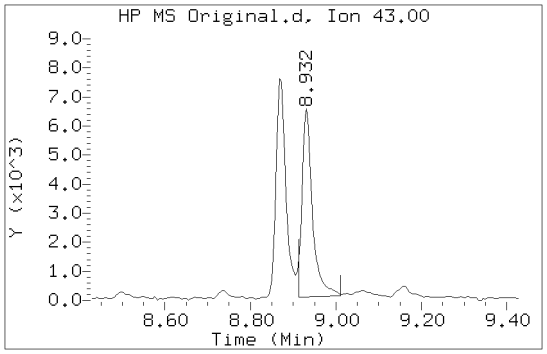


n-Amyl acetate (628-63-7)

Reason Code:

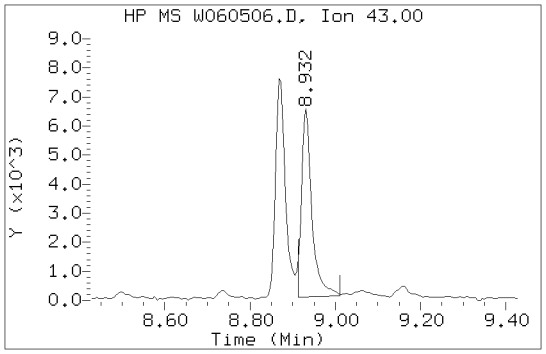
BEFORE

MASS
43
AREA
11041
HEIGHT
6467
21-Jun-2024
17:11
RUCHA
PATEL



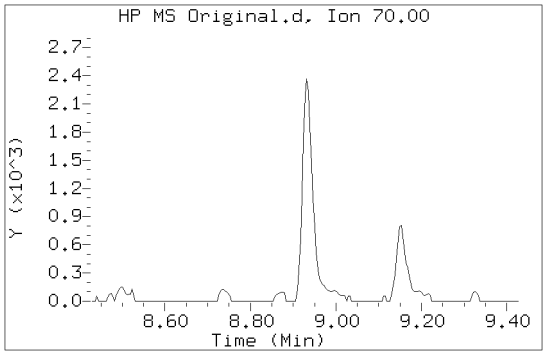
AFTER

MASS
43
AREA
11041
HEIGHT
6467
21-Jun-2024
17:11
RUCHA
PATEL



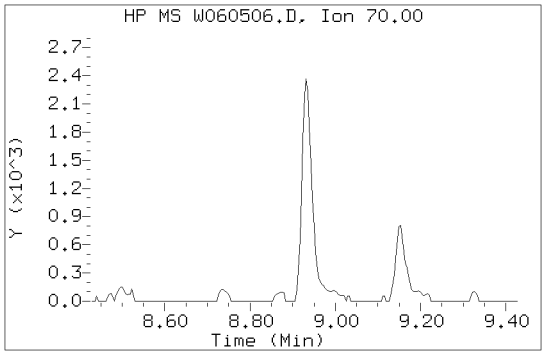
BEFORE

MASS
70
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



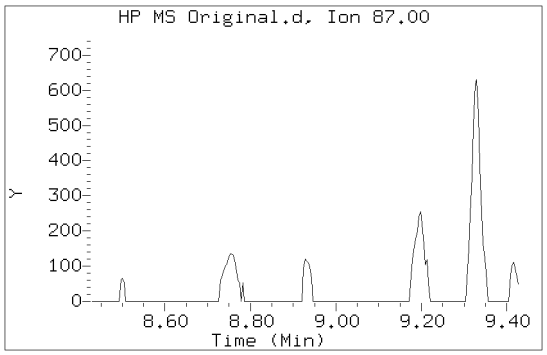
AFTER

MASS
70
AREA
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HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



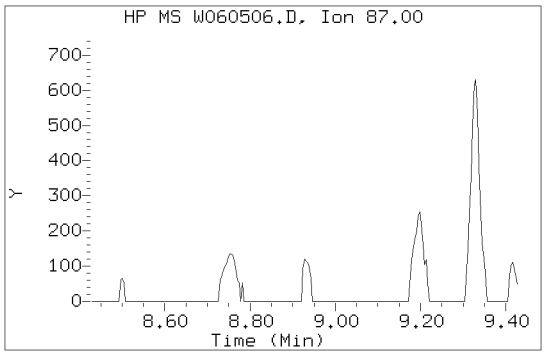
BEFORE

MASS
87
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
87
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

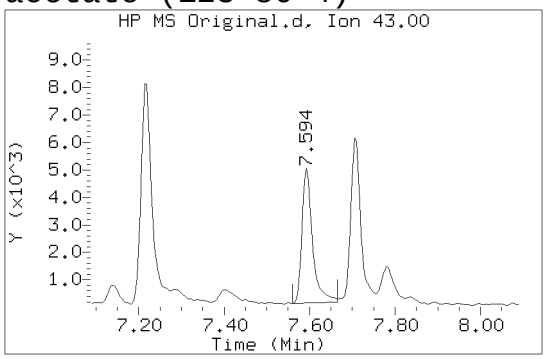


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Inj Date : 05-JUN-2024 20:24
InstruID : VOA9.i
LabSampID : VSTD005

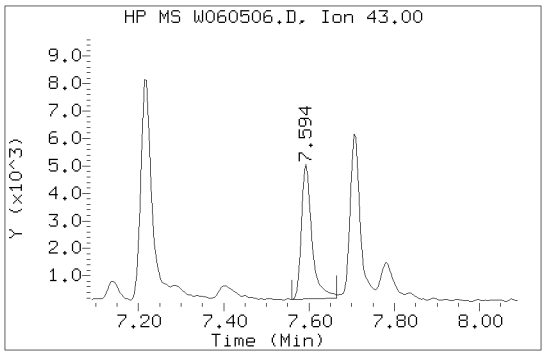
n-Butyl acetate (123-86-4)

Reason Code:

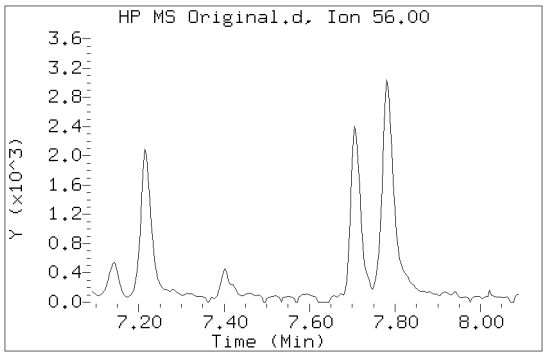
BEFORE
MASS
43
AREA
8614
HEIGHT
4915
21-Jun-2024
17:11
RUCHA
PATEL



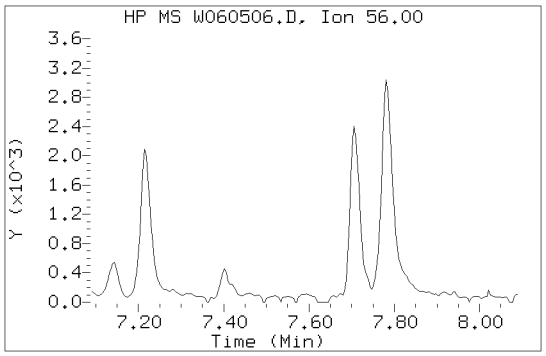
AFTER
MASS
43
AREA
8614
HEIGHT
4915
21-Jun-2024
17:11
RUCHA
PATEL



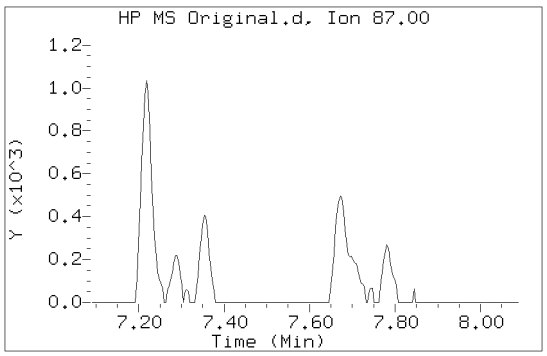
BEFORE
MASS
56
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



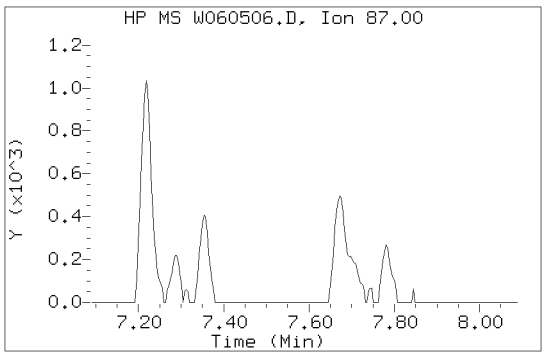
AFTER
MASS
56
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



BEFORE
MASS
87
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



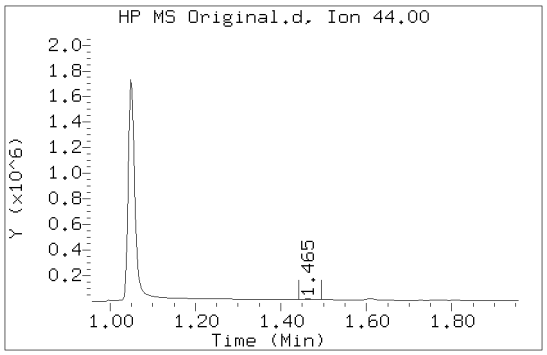
AFTER
MASS
87
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



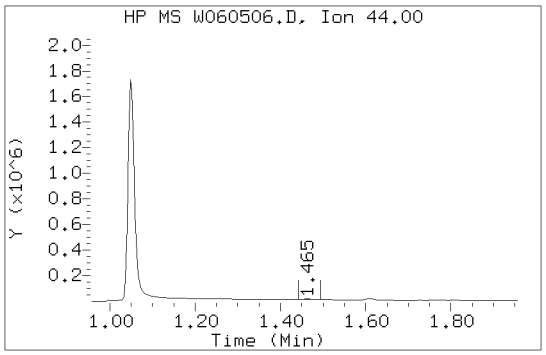
Acetaldehyde (75-07-0)

Reason Code:

BEFORE
MASS
44
AREA
6710
HEIGHT
5435
21-Jun-2024
17:11
RUCHA
PATEL



AFTER
MASS
44
AREA
6710
HEIGHT
5435
21-Jun-2024
17:11
RUCHA
PATEL



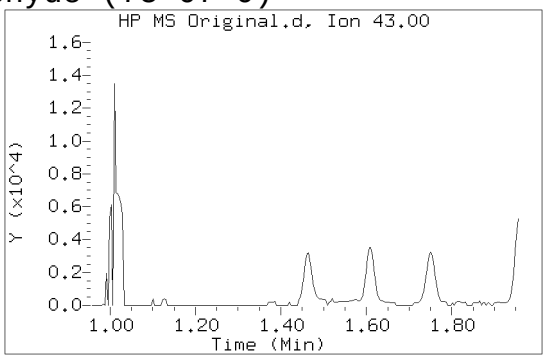
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Inj Date : 05-JUN-2024 20:24
InstruID : VOA9.i
LabSampID : VSTD005

Acetaldehyde (75-07-0)

Reason Code:

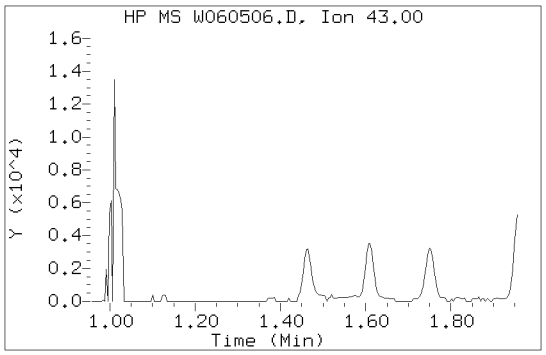
BEFORE

MASS
43
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



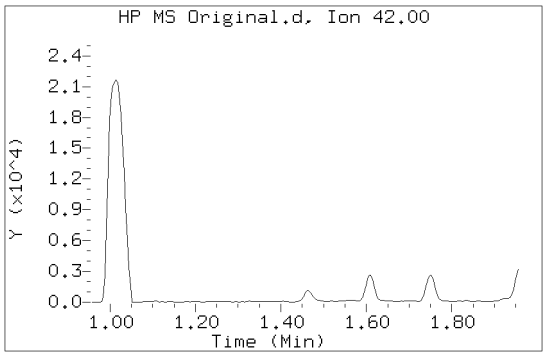
AFTER

MASS
43
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



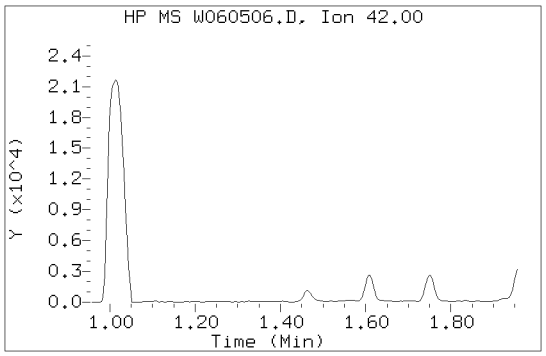
BEFORE

MASS
42
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
42
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

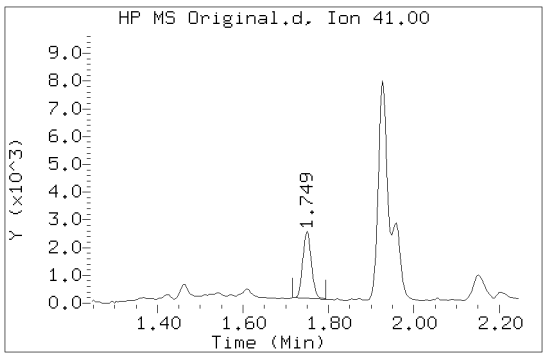


Isobutylene (115-11-7)

Reason Code:

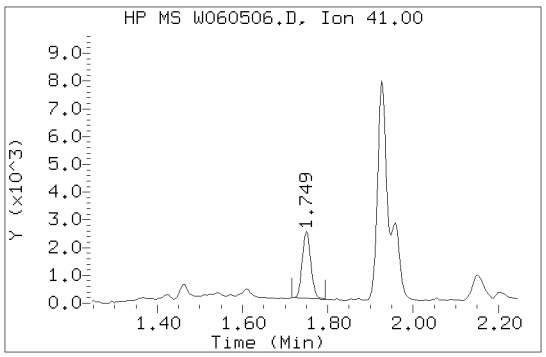
BEFORE

MASS
41
AREA
3420
HEIGHT
2413
21-Jun-2024
17:11
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PATEL



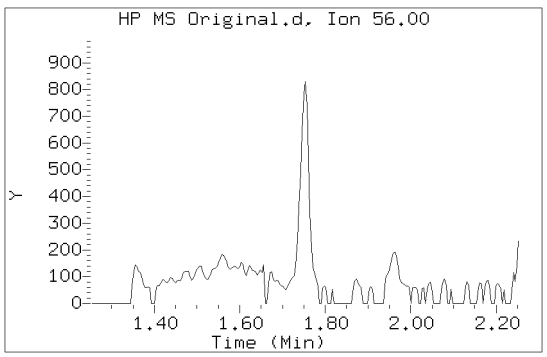
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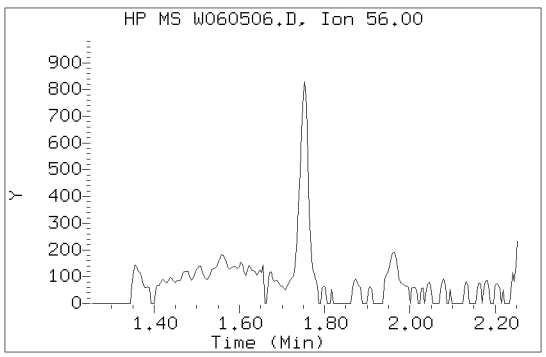
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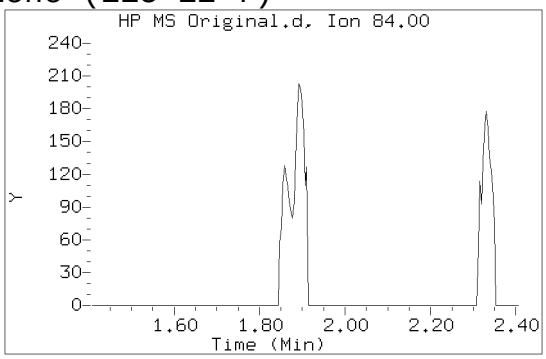
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InstruID : VOA9.i
LabSampID : VSTD005

Isobutylene (115-11-7)

Reason Code:

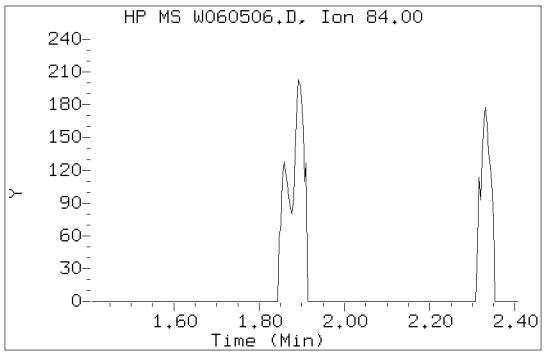
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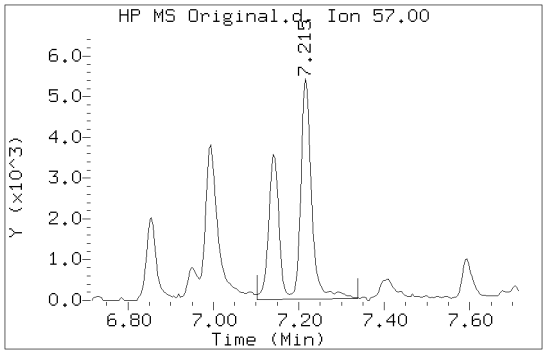


sec-Butyl Ether (6863-58-7)

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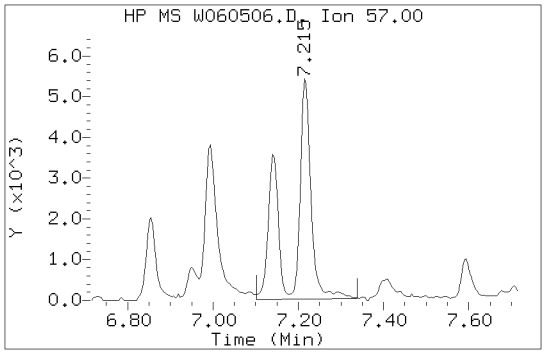
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Data File: \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060507.D Page 1
Report Date: 21-Jun-2024 17:12

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060507.D
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Inj Date : 05-JUN-2024 20:46
Operator : TS Inst ID: VOA9.i
Smp Info : VSTD020;VSTD020;1;6
Misc Info : V9;WATER;0;1;
Comment   :
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Meth Date : 21-Jun-2024 17:12 VOA9.i Quant Type: ISTD
Cal Date : 05-JUN-2024 20:24 Cal File: W060506.D
Als bottle: 9 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.819	4.819	(1.000)	207516	50.0000	
2	Dichlorodifluoromethane	85	1.168	1.168	(0.242)	12496	20.0000	19.88
3	Chloromethane	50	1.303	1.303	(0.270)	52001	20.0000	19.67
4	Propionitrile	54	4.343	4.343	(0.901)	40218	200.000	200.87(a)
5	Vinyl Chloride	62	1.381	1.381	(0.287)	25829	20.0000	18.32
6	Bromomethane	94	1.621	1.621	(0.336)	12706	20.0000	19.57
7	Chloroethane	64	1.704	1.704	(0.354)	19725	20.0000	19.24
8	Trichlorofluoromethane	101	1.899	1.899	(0.394)	35153	20.0000	19.34
9	Acrolein	56	2.270	2.270	(0.471)	2397	40.0000	33.57
10	Acetone	43	2.412	2.412	(0.501)	23436	40.0000	39.97
11	1,1-Dichloroethene	96	2.333	2.333	(0.484)	22140	20.0000	18.60
12	Isobutyl Alcohol	43	5.284	5.284	(1.096)	77253	400.000	350.03(a)
13	Acetonitrile	39	2.675	2.675	(0.555)	35153	200.000	205.87(a)
14	Allyl Chloride	41	2.675	2.675	(0.555)	78943	20.0000	20.33(a)
15	Iodomethane	142	2.472	2.472	(0.513)	9380	40.0000	36.59
16	Acrylonitrile	53	3.072	3.072	(0.638)	21490	40.0000	40.38
17	Methylene Chloride	84	2.798	2.798	(0.581)	29540	20.0000	19.80
18	Methyl tert-butyl ether	73	3.083	3.083	(0.640)	72150	20.0000	20.38
19	Carbon Disulfide	76	2.525	2.525	(0.524)	121598	40.0000	35.64
20	trans-1,2-Dichloroethene	96	3.061	3.061	(0.635)	24223	20.0000	19.05

21 Vinyl Acetate	43	4.343	4.343 (0.901)	29884	40.0000	37.13
22 1,1-Dichloroethane	63	3.514	3.514 (0.729)	49079	20.0000	19.48

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
23	Chloroprene	53	3.608	3.608	(0.749)	38424	20.0000	18.16
24	2-Butanone	43	4.268	4.268	(0.886)	28126	40.0000	36.27
25	Methacrylonitrile	41	4.496	4.496	(0.933)	16755	20.0000	19.18(aM)
26	2,2-Dichloropropane	77	4.182	4.182	(0.868)	30792	20.0000	17.43
27	cis-1,2-Dichloroethene	96	4.197	4.197	(0.871)	28739	20.0000	18.87
28	Chloroform	83	4.575	4.575	(0.949)	48343	20.0000	17.67
29	Bromochloromethane	128	4.470	4.470	(0.928)	14487	20.0000	19.09
$ 30	Dibromofluoromethane	113	4.748	4.748	(0.985)	28304	20.0000	18.92
31	1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	35464	20.0000	18.05
32	1,1-Dichloropropene	75	4.920	4.920	(0.886)	35383	20.0000	18.09
33	1,2-Dichloroethane	62	5.175	5.175	(0.932)	41071	20.0000	19.23
34	Carbon Tetrachloride	117	4.913	4.913	(0.885)	28402	20.0000	17.60
$ 35	1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	35341	20.0000	19.38
* 36	1,4-Difluorobenzene	114	5.554	5.554	(1.000)	302737	50.0000	
37	Benzene	78	5.137	5.137	(0.925)	106397	20.0000	18.62
38	Trichloroethene	130	5.786	5.786	(1.042)	27422	20.0000	18.18
39	Bromodichloromethane	83	6.277	6.277	(1.130)	31154	20.0000	17.34
40	Methyl Methacrylate	41	5.827	5.827	(1.209)	11132	20.0000	19.05(a)
41	2-Chloroethylvinyl ether	63	6.577	6.577	(1.184)	9480	40.0000	30.89
42	1,2-Dichloropropane	63	6.007	6.007	(1.082)	30155	20.0000	18.74
43	2-Nitropropane	43	6.509	6.509	(1.351)	5421	20.0000	18.12(M)
44	Dibromomethane	93	6.120	6.120	(1.102)	17413	20.0000	18.71
45	4-Methyl-2-Pentanone	43	6.854	6.854	(0.837)	56134	40.0000	35.43
46	cis-1,3-Dichloropropene	75	6.689	6.689	(1.205)	35170	20.0000	16.71
* 47	Chlorobenzene-d5	117	8.185	8.185	(1.000)	274071	50.0000	
$ 48	Toluene-d8	98	6.922	6.922	(0.846)	102740	20.0000	18.66
49	Ethyl Methacrylate	69	7.289	7.289	(1.312)	36653	20.0000	18.71(a)
50	Toluene	91	6.978	6.978	(0.853)	113021	20.0000	18.47
51	trans-1,3-Dichloropropene	75	7.195	7.195	(1.296)	29131	20.0000	16.77
52	2-Hexanone	43	7.214	7.214	(0.881)	50519	40.0000	43.38
53	1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	22461	20.0000	19.18
54	1,3-Dichloropropane	76	7.495	7.495	(0.916)	46487	20.0000	18.53
55	Dibromochloromethane	129	7.690	7.690	(0.940)	23412	20.0000	17.45
56	Tetrachloroethene	164	7.454	7.454	(0.911)	21877	20.0000	18.39
57	1,2-Dibromoethane	107	7.784	7.784	(0.951)	24396	20.0000	18.13
58	1-Chlorohexane	55	8.193	8.193	(1.475)	22935	20.0000	17.88
59	Chlorobenzene	112	8.208	8.208	(1.003)	72064	20.0000	18.80
60	1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	23386	20.0000	17.65
61	Ethylbenzene	106	8.305	8.305	(1.015)	35673	20.0000	18.25
62	m,p-Xylenes	106	8.406	8.406	(1.027)	90871	40.0000	37.42
63	o-Xylene	106	8.747	8.747	(1.069)	44936	20.0000	19.12
64	Styrene	104	8.759	8.759	(1.070)	71738	20.0000	18.87
66	Bromoform	173	8.916	8.916	(1.089)	12657	20.0000	16.21
67	Isopropylbenzene	105	9.062	9.062	(1.107)	108271	20.0000	19.39
68	1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	37438	20.0000	18.58
$ 69	4-Bromofluorobenzene	95	9.190	9.190	(1.123)	38568	20.0000	19.36
* 70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	150351	50.0000	
71	1,2,3-Trichloropropane	75	9.358	9.358	(0.920)	35060	20.0000	17.94
72	trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	7145	20.0000	17.24(a)
73	n-Propylbenzene	91	9.411	9.411	(0.926)	125437	20.0000	18.35
74	Bromobenzene	156	9.317	9.317	(0.916)	31330	20.0000	18.55
75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	83784	20.0000	18.61

76	2-Chlorotoluene	91	9.482	9.482 (0.933)	79803	20.0000	18.00
77	4-Chlorotoluene	91	9.576	9.576 (0.942)	91324	20.0000	17.89

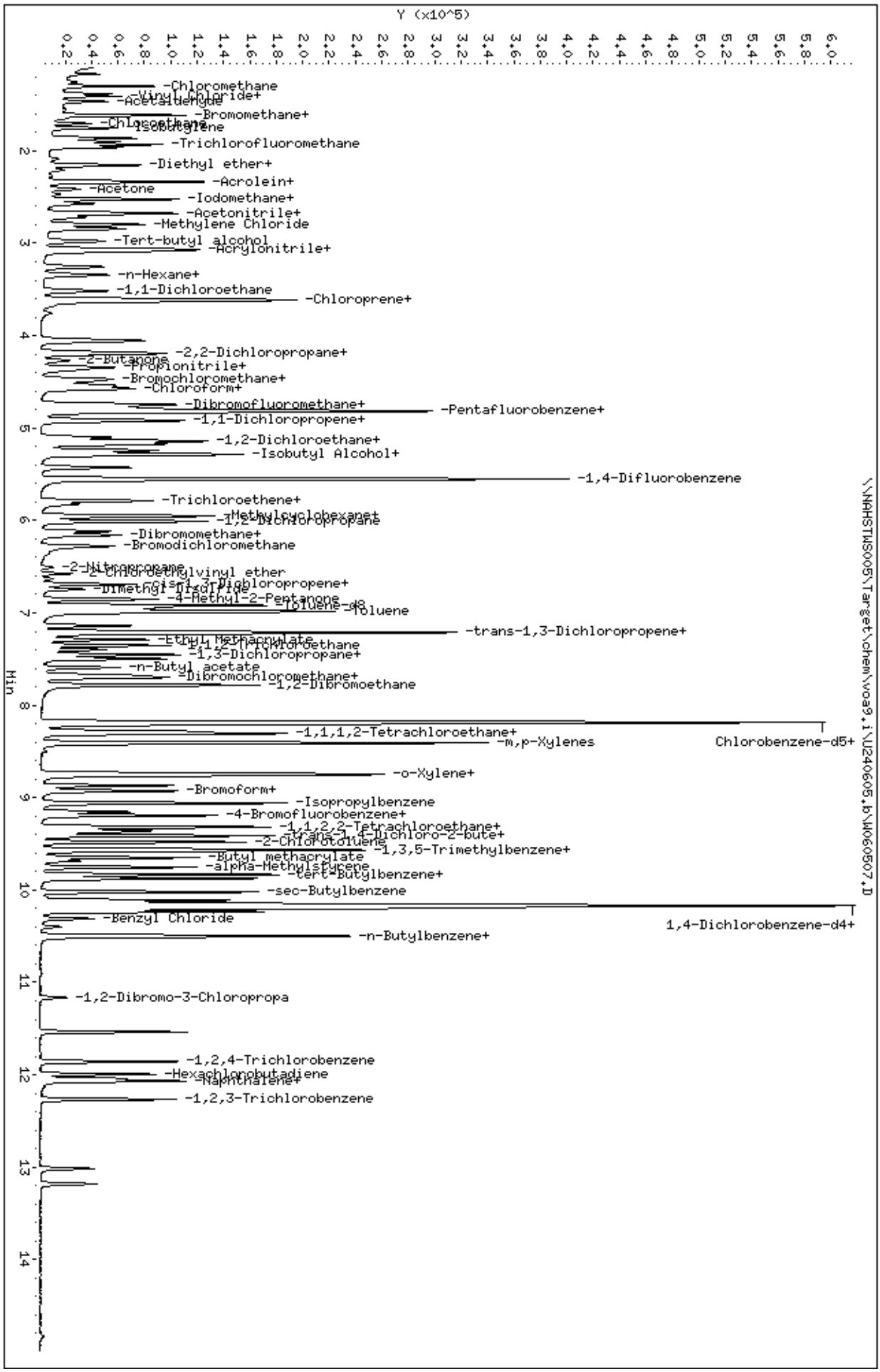
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Report Date: 21-Jun-2024 17:12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	76545	20.0000	18.61
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	82609	20.0000	17.74
81	sec-Butylbenzene	105	10.022	10.022	(0.986)	102428	20.0000	18.83
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	84606	20.0000	18.31
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	54495	20.0000	17.23
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	58041	20.0000	18.43
86	Benzyl Chloride	91	10.311	10.311	(1.260)	26276	20.0000	16.40
87	n-Butylbenzene	91	10.491	10.491	(1.032)	74719	20.0000	17.30
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	54965	20.0000	18.51
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	3946	20.0000	17.46
90	1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	31651	20.0000	17.09
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	15317	20.0000	17.79
92	Naphthalene	128	12.069	12.069	(1.187)	73366	20.0000	16.78
93	1,2,3-Trichlorobenzene	180	12.267	12.267	(1.206)	30365	20.0000	17.52
146	Methyl acetate	43	2.716	2.716	(0.564)	30705	20.0000	19.59
138	Freon TF	101	2.337	2.337	(0.485)	20004	20.0000	19.62
141	Cyclohexane	56	4.785	4.785	(0.993)	34880	20.0000	18.90
142	Tetrahydrofuran	42	4.545	4.545	(0.943)	9707	40.0000	35.66
147	Methylcyclohexane	55	5.947	5.947	(1.071)	62853	20.0000	18.04
135	1,4-Dioxane	88	6.168	6.168	(1.280)	6391	400.000	403.98
132	n-Butanol	56	5.823	5.823	(1.208)	14625	400.000	364.56(a)
136	n-Hexane	57	3.342	3.342	(0.694)	24049	20.0000	18.80
139	Diethyl ether	59	2.150	2.150	(0.446)	20646	20.0000	20.08
148	Tert-butyl alcohol	59	2.974	2.974	(0.617)	50600	400.000	402.91
149	Isopropyl alcohol	45	2.570	2.570	(0.533)	41045	400.000	406.00(T)
156	Diisopropyl ether	45	3.623	3.623	(0.752)	91920	20.0000	19.75(T)
162	Butyl acrylate	55	8.732	8.732	(1.067)	46737	20.0000	17.27
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	135389	20.0000	19.53
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	85948	20.0000	18.74
167	Ethanol	45	2.090	2.090	(0.434)	7529	400.000	403.05
172	tert-Butyl formate	59	5.242	5.242	(1.088)	46037	40.0000	37.64
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.299)	160068	400.000	380.85
140	1,3-Butadiene	54	1.408	1.408	(0.292)	13426	20.0000	19.75
182	Epichlorohydrin	57	6.633	6.633	(1.194)	6197	80.0000	78.37
M 94	1,2-Dichloroethylene (total)	96				52962	40.0000	(a)
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	32863	20.0000	17.95
130	Ethyl Acetate	43	4.538	4.538	(0.942)	13954	20.0000	23.56(M)
131	Methyl Acrylate	55	4.373	4.373	(0.907)	31993	20.0000	19.43
189	n-Butyl acetate	43	7.589	7.589	(0.927)	34863	20.0000	17.00(M)
134	Cyclohexanone	55	9.152	9.152	(0.900)	27032	400.000	415.01(a)
185	Isoprene	39	2.161	2.161	(0.449)	6647	20.0000	19.11
188	Isopropyl acetate	43	5.284	5.284	(0.951)	76293	20.0000	17.99
150	Allyl alcohol	57	3.342	3.342	(0.694)	24049	400.000	376.04
194	Acetaldehyde	44	1.464	1.464	(0.304)	24633	80.0000	80.00(M)
200	Dimethyl Disulfide	94	6.746	6.746	(0.824)	12285	20.0000	17.30
202	Isobutylene	41	1.752	1.752	(0.364)	13367	20.0000	19.69(M)
133	Ethyl Acrylate	55	5.947	5.947	(1.234)	62853	20.0000	17.92
163	Butyl methacrylate	41	9.647	9.647	(0.949)	32529	20.0000	20.98
159	Propylene oxide	43	2.206	2.206	(0.458)	4976	40.0000	42.74
178	Ethylene oxide	44	1.610	1.610	(0.334)	70538	40.0000	24.67(M)
203	2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	24452	20.0000	16.77
204	Tetrahydrothiophene	60	7.672	7.672	(0.937)	24742	20.0000	19.04(A)

205 sec-Butyl Ether	57	7.214	7.214 (0.881)	59356	20.0000	17.68(AM)
187 n-Amyl acetate	43	8.931	8.931 (1.091)	45186	20.0000	17.70(M)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.



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Sample Info: VSTD020;VSTD020;1;6
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

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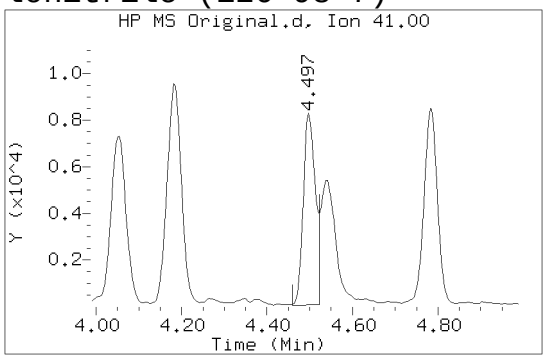
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InstruID : VOA9.i
LabSampID : VSTD020

Methacrylonitrile (126-98-7)

Reason Code:

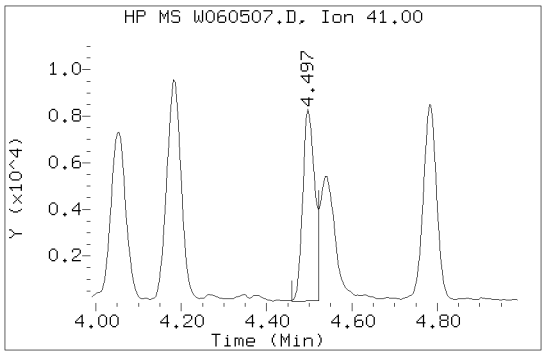
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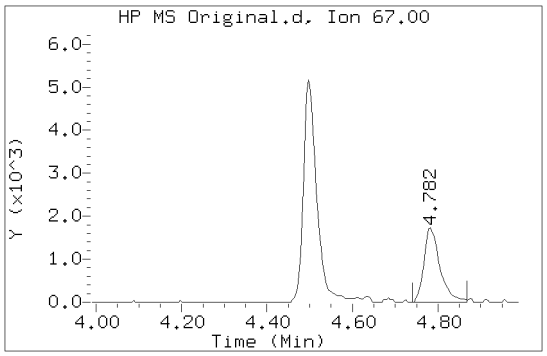
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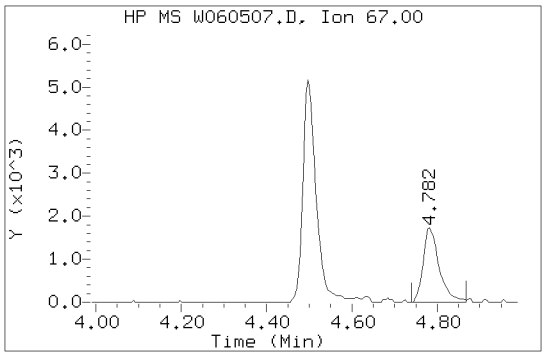
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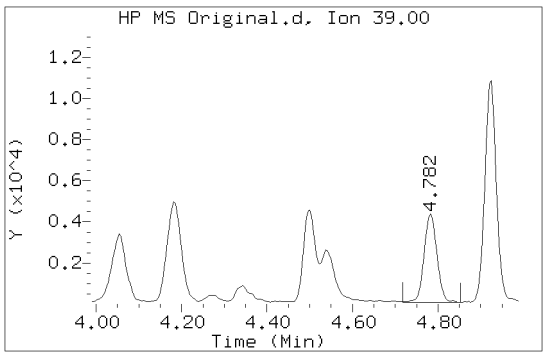
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RUCHA
PATEL



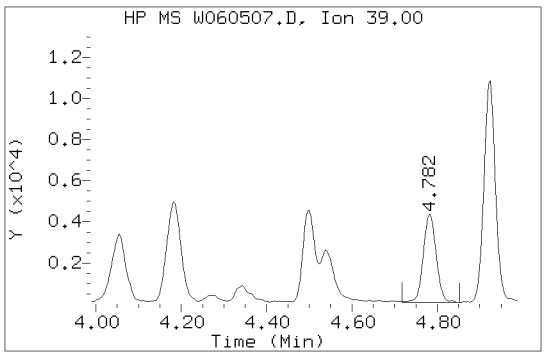
BEFORE

MASS
39
AREA
9004
HEIGHT
4310
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
39
AREA
9004
HEIGHT
4310
21-Jun-2024
17:11
RUCHA
PATEL

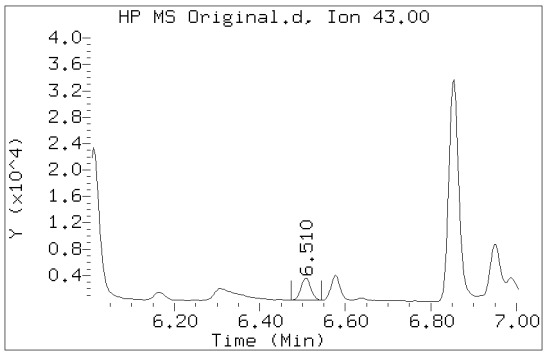


2-Nitropropane (79-46-9)

Reason Code:

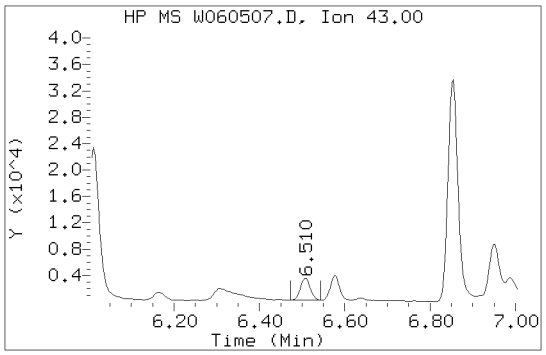
BEFORE

MASS
43
AREA
5421
HEIGHT
3336
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
43
AREA
5421
HEIGHT
3336
21-Jun-2024
17:11
RUCHA
PATEL



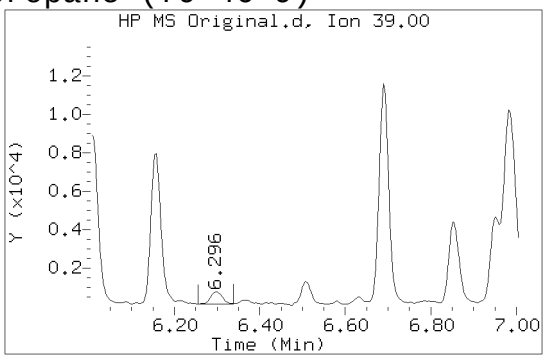
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060507.D
Inj Date : 05-JUN-2024 20:46
InstruID : VOA9.i
LabSampID : VSTD020

2-Nitropropane (79-46-9)

Reason Code:

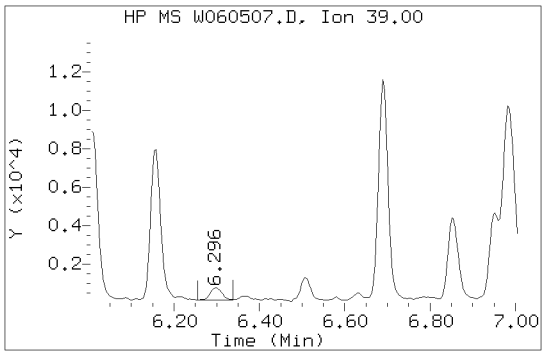
BEFORE

MASS
39
AREA
1184
HEIGHT
639
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
39
AREA
1184
HEIGHT
639
21-Jun-2024
17:11
RUCHA
PATEL

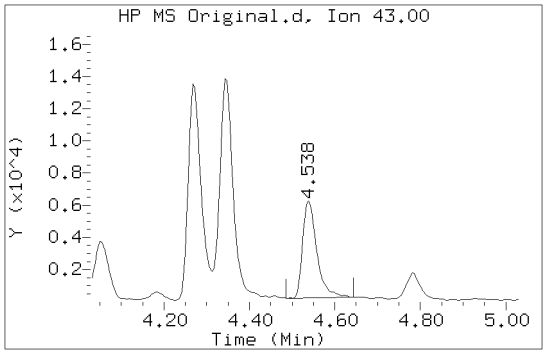


Ethyl Acetate (141-78-6)

Reason Code:

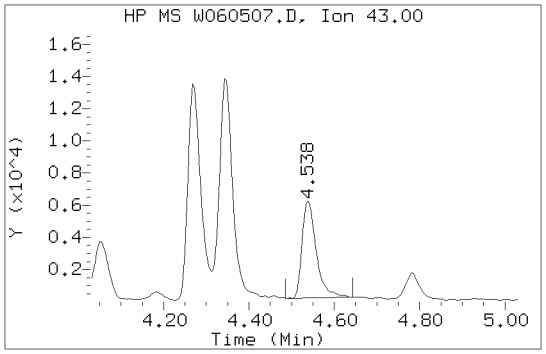
BEFORE

MASS
43
AREA
13954
HEIGHT
6020
21-Jun-2024
17:11
RUCHA
PATEL



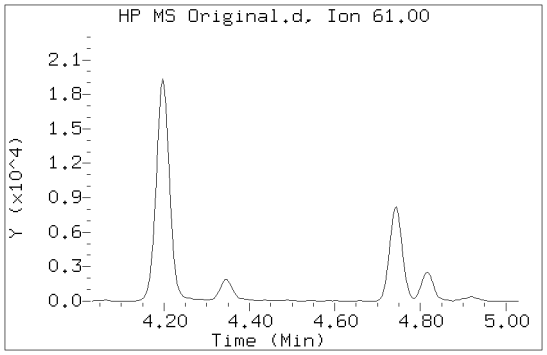
AFTER

MASS
43
AREA
13954
HEIGHT
6020
21-Jun-2024
17:11
RUCHA
PATEL



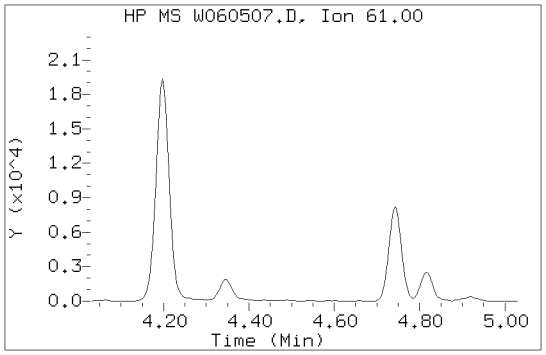
BEFORE

MASS
61
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



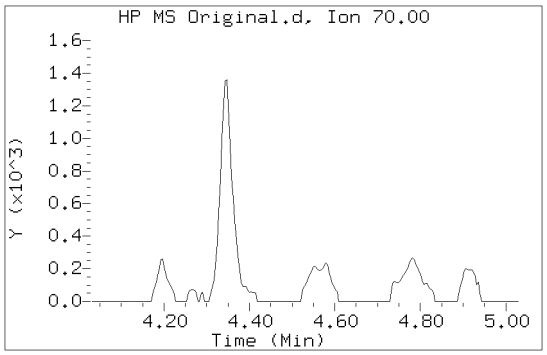
AFTER

MASS
61
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



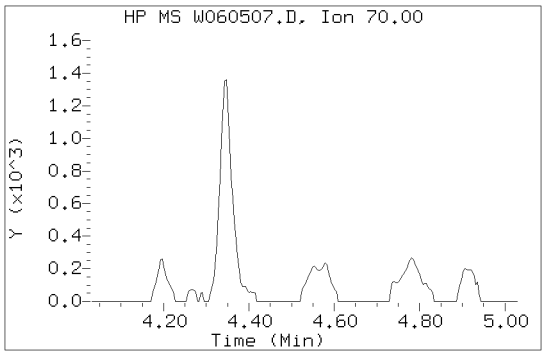
BEFORE

MASS
70
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
70
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



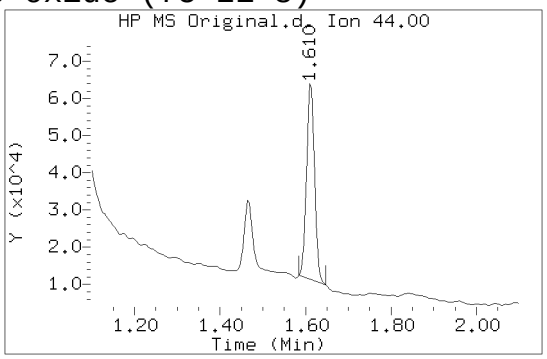
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Inj Date : 05-JUN-2024 20:46
InstruID : VOA9.i
LabSampID : VSTD020

Ethylene oxide (75-21-8)

Reason Code:

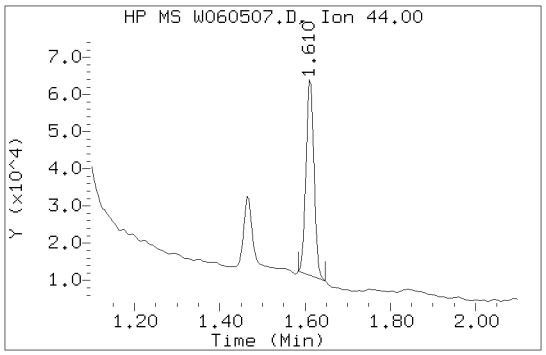
BEFORE

MASS
44
AREA
70538
HEIGHT
52621
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
44
AREA
70538
HEIGHT
52621
21-Jun-2024
17:11
RUCHA
PATEL

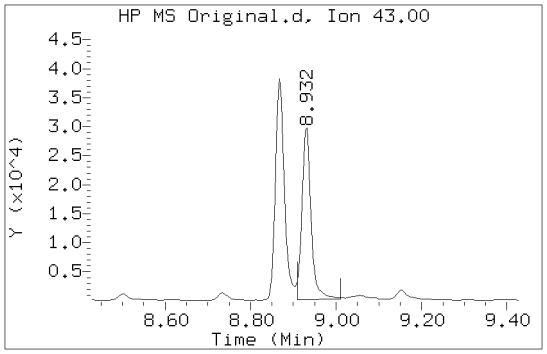


n-Amyl acetate (628-63-7)

Reason Code:

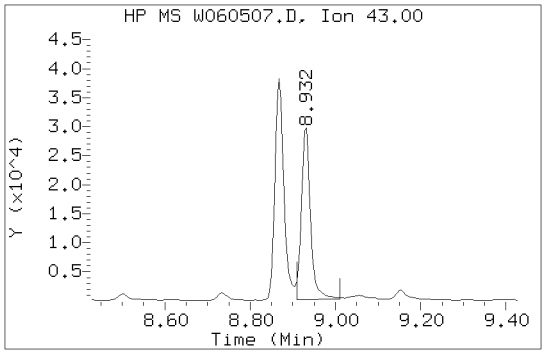
BEFORE

MASS
43
AREA
45186
HEIGHT
29581
21-Jun-2024
17:11
RUCHA
PATEL



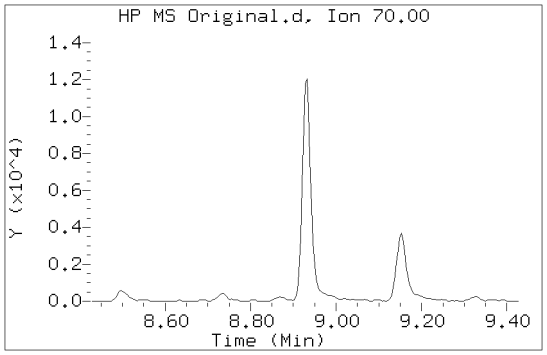
AFTER

MASS
43
AREA
45186
HEIGHT
29581
21-Jun-2024
17:11
RUCHA
PATEL



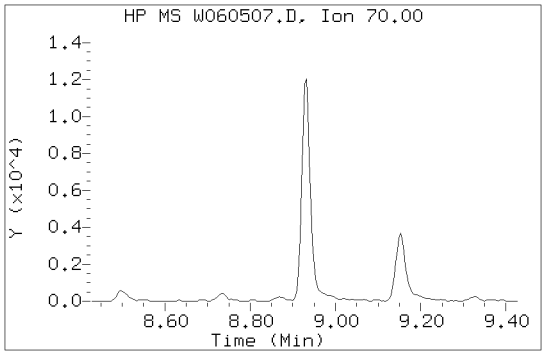
BEFORE

MASS
70
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



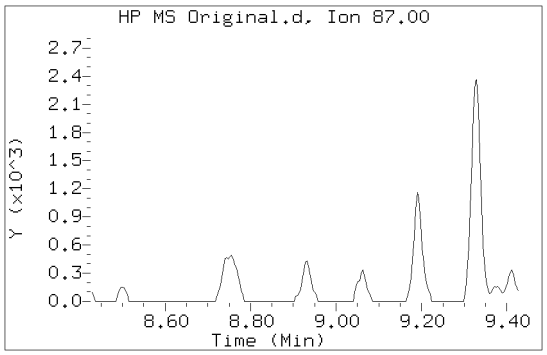
AFTER

MASS
70
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



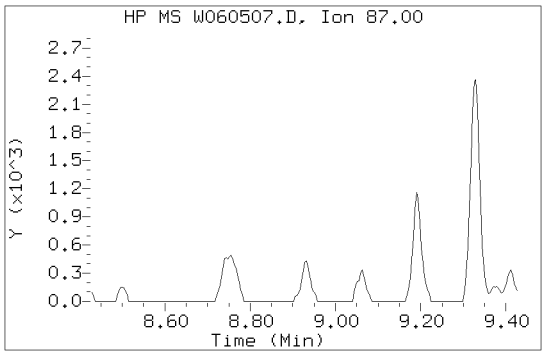
BEFORE

MASS
87
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
87
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



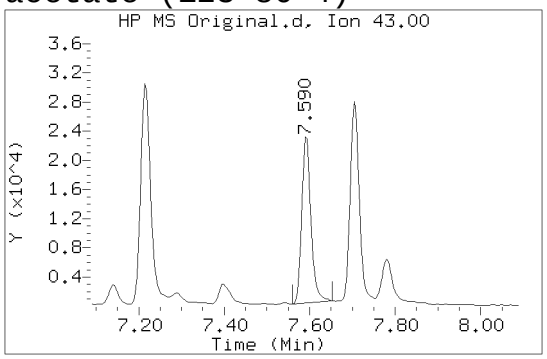
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060507.D
Inj Date : 05-JUN-2024 20:46
InstruID : VOA9.i
LabSampID : VSTD020

n-Butyl acetate (123-86-4)

Reason Code:

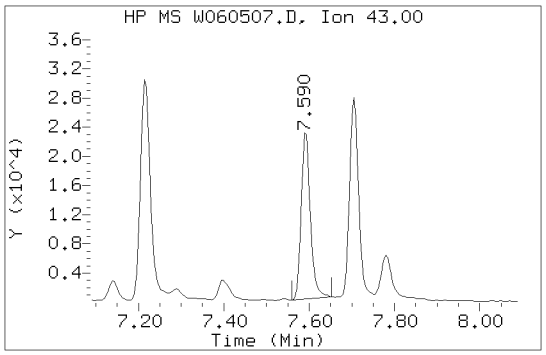
BEFORE

MASS
43
AREA
34863
HEIGHT
22760
21-Jun-2024
17:11
RUCHA
PATEL



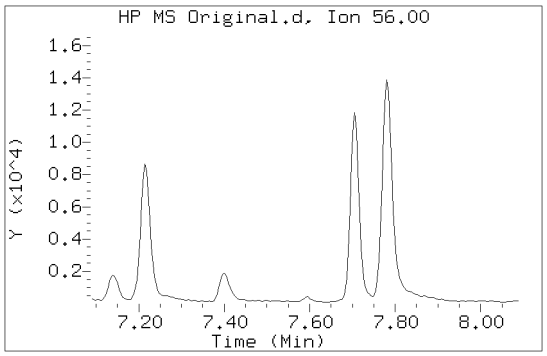
AFTER

MASS
43
AREA
34863
HEIGHT
22760
21-Jun-2024
17:11
RUCHA
PATEL



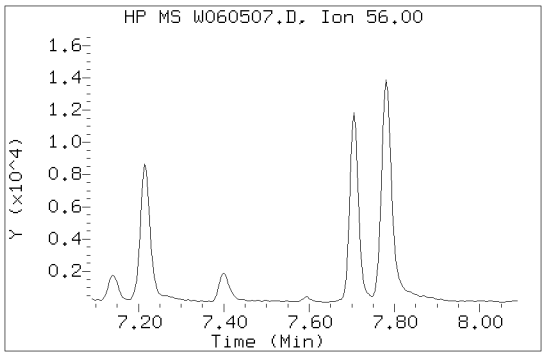
BEFORE

MASS
56
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



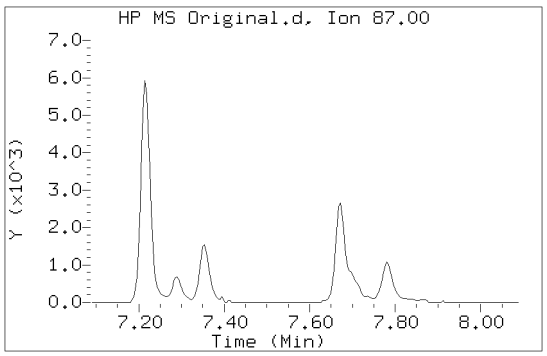
AFTER

MASS
56
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



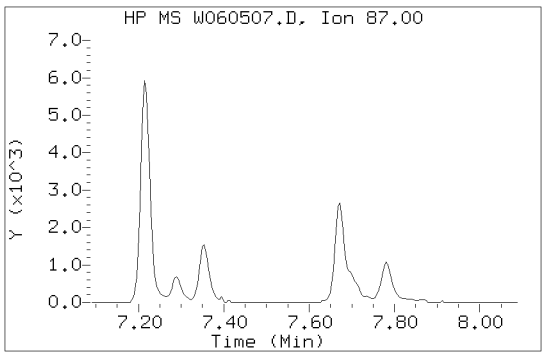
BEFORE

MASS
87
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
87
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

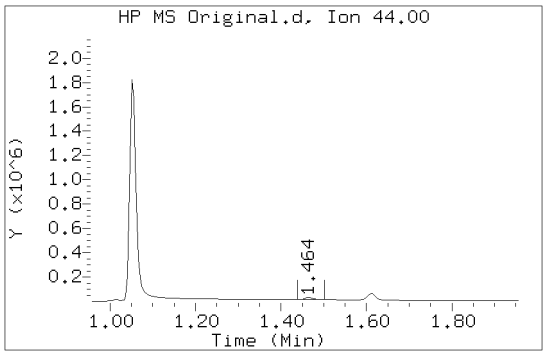


Acetaldehyde (75-07-0)

Reason Code:

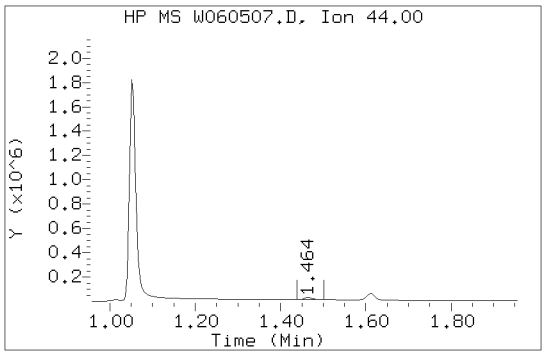
BEFORE

MASS
44
AREA
24633
HEIGHT
18756
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
44
AREA
24633
HEIGHT
18756
21-Jun-2024
17:11
RUCHA
PATEL



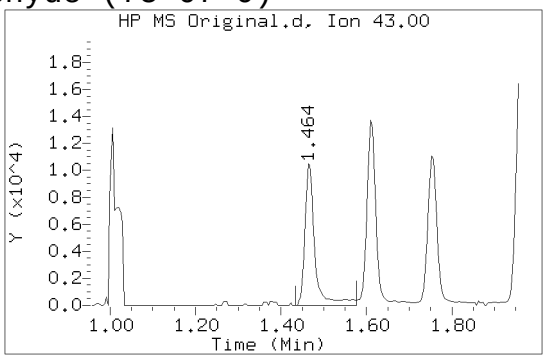
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060507.D
Inj Date : 05-JUN-2024 20:46
InstruID : VOA9.i
LabSampID : VSTD020

Acetaldehyde (75-07-0)

Reason Code:

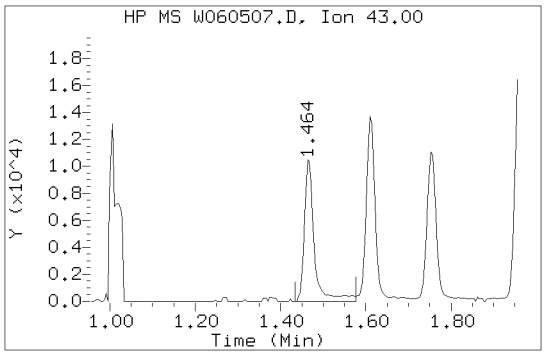
BEFORE

MASS
43
AREA
17437
HEIGHT
10514
21-Jun-2024
17:11
RUCHA
PATEL



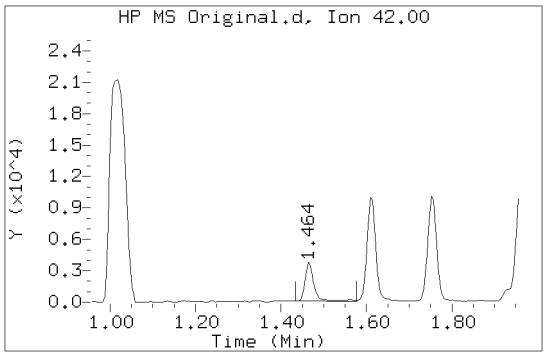
AFTER

MASS
43
AREA
17437
HEIGHT
10514
21-Jun-2024
17:11
RUCHA
PATEL



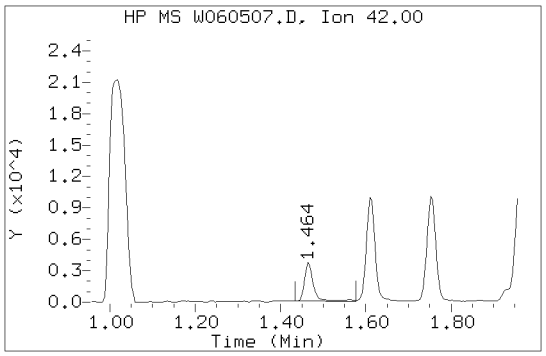
BEFORE

MASS
42
AREA
5563
HEIGHT
3680
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
42
AREA
5563
HEIGHT
3680
21-Jun-2024
17:11
RUCHA
PATEL

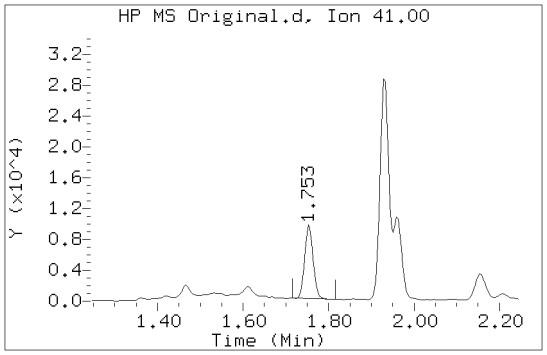


Isobutylene (115-11-7)

Reason Code:

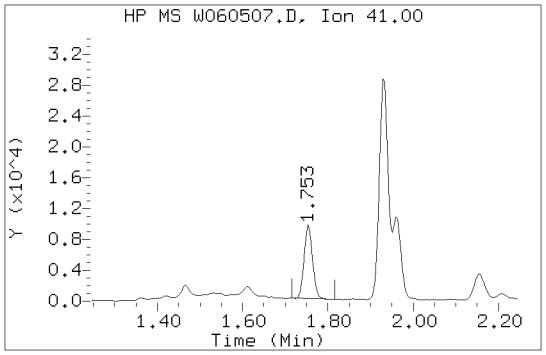
BEFORE

MASS
41
AREA
13367
HEIGHT
9527
21-Jun-2024
17:11
RUCHA
PATEL



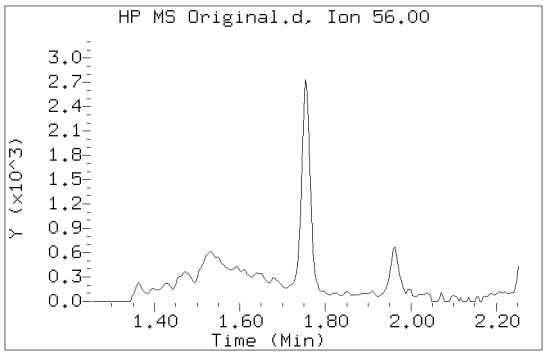
AFTER

MASS
41
AREA
13367
HEIGHT
9527
21-Jun-2024
17:11
RUCHA
PATEL



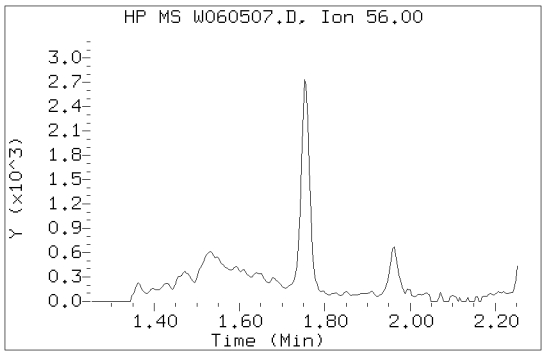
BEFORE

MASS
56
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
56
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



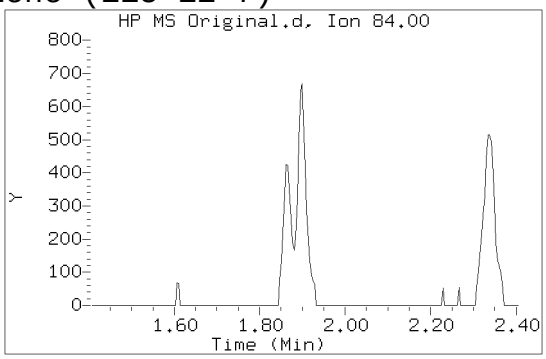
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060507.D
Inj Date : 05-JUN-2024 20:46
InstruID : VOA9.i
LabSampID : VSTD020

Isobutylene (115-11-7)

Reason Code:

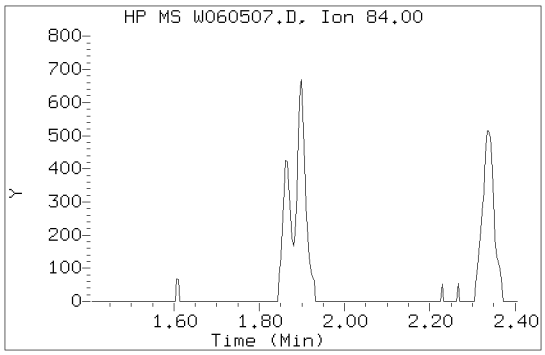
BEFORE

MASS
84
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
84
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

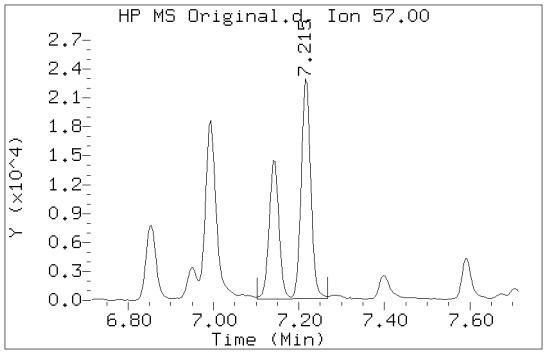


sec-Butyl Ether (6863-58-7)

Reason Code:

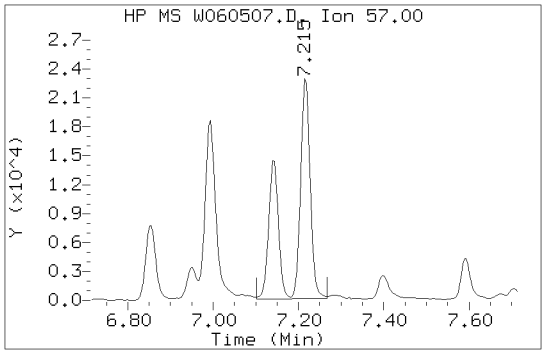
BEFORE

MASS
57
AREA
59356
HEIGHT
22830
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
57
AREA
59356
HEIGHT
22830
21-Jun-2024
17:11
RUCHA
PATEL



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060508.D Page 1
Report Date: 21-Jun-2024 17:12

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060508.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 05-JUN-2024 21:07
Operator : TS Inst ID: VOA9.i
Smp Info : VSTD050;VSTD050;1;7
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240605.b\8260C.m
Meth Date : 21-Jun-2024 17:12 VOA9.i Quant Type: ISTD
Cal Date : 05-JUN-2024 20:46 Cal File: W060507.D
Als bottle: 10 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.815	4.815	(1.000)	216069	50.0000	
2	Dichlorodifluoromethane	85	1.164	1.164	(0.242)	33264	50.0000	49.59
3	Chloromethane	50	1.295	1.295	(0.269)	137470	50.0000	55.45
4	Propionitrile	54	4.335	4.335	(0.900)	106147	500.000	506.95
5	Vinyl Chloride	62	1.378	1.378	(0.286)	70607	50.0000	48.12
6	Bromomethane	94	1.610	1.610	(0.334)	32479	50.0000	48.87
7	Chloroethane	64	1.696	1.696	(0.352)	53556	50.0000	50.47
8	Trichlorofluoromethane	101	1.895	1.895	(0.394)	97764	50.0000	51.67
9	Acrolein	56	2.262	2.262	(0.470)	8034	100.000	114.23
10	Acetone	43	2.408	2.408	(0.500)	64098	100.000	111.98
11	1,1-Dichloroethene	96	2.330	2.330	(0.484)	59905	50.0000	48.34
12	Isobutyl Alcohol	43	5.284	5.284	(1.097)	228388	1000.00	993.85
13	Acetonitrile	39	2.671	2.671	(0.555)	88484	500.000	495.18
14	Allyl Chloride	41	2.671	2.671	(0.555)	201356	50.0000	49.69
15	Iodomethane	142	2.465	2.465	(0.512)	29057	100.000	101.38
16	Acrylonitrile	53	3.064	3.064	(0.636)	55197	100.000	101.80
17	Methylene Chloride	84	2.791	2.791	(0.580)	76359	50.0000	51.23
18	Methyl tert-butyl ether	73	3.079	3.079	(0.640)	184999	50.0000	50.27
19	Carbon Disulfide	76	2.517	2.517	(0.523)	339010	100.000	95.45
20	trans-1,2-Dichloroethene	96	3.053	3.053	(0.634)	66993	50.0000	50.49

21 Vinyl Acetate	43	4.339	4.339 (0.901)	86076	100.000	101.94
22 1,1-Dichloroethane	63	3.511	3.511 (0.729)	132515	50.0000	51.04

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060508.D Page 2
Report Date: 21-Jun-2024 17:12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
23	Chloroprene	53	3.604	3.604	(0.749)	106274	50.0000	48.24
24	2-Butanone	43	4.264	4.264	(0.886)	82452	100.000	103.53
25	Methacrylonitrile	41	4.493	4.493	(0.933)	45303	50.0000	47.47(aM)
26	2,2-Dichloropropane	77	4.182	4.182	(0.868)	89261	50.0000	48.54
27	cis-1,2-Dichloroethene	96	4.193	4.193	(0.871)	80088	50.0000	50.22
28	Chloroform	83	4.571	4.571	(0.949)	132876	50.0000	46.66
29	Bromochloromethane	128	4.466	4.466	(0.928)	40291	50.0000	51.85
$ 30	Dibromofluoromethane	113	4.748	4.748	(0.986)	72926	50.0000	46.82
31	1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	104403	50.0000	51.06
32	1,1-Dichloropropene	75	4.920	4.920	(0.887)	96986	50.0000	48.45
33	1,2-Dichloroethane	62	5.175	5.175	(0.932)	111560	50.0000	52.12
34	Carbon Tetrachloride	117	4.909	4.909	(0.885)	84585	50.0000	51.21
$ 35	1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	91744	50.0000	48.31
* 36	1,4-Difluorobenzene	114	5.550	5.550	(1.000)	309899	50.0000	
37	Benzene	78	5.138	5.138	(0.926)	297605	50.0000	50.67
38	Trichloroethene	130	5.786	5.786	(1.043)	76169	50.0000	49.35
39	Bromodichloromethane	83	6.277	6.277	(1.131)	90810	50.0000	49.38
40	Methyl Methacrylate	41	5.824	5.824	(1.209)	31423	50.0000	47.73
41	2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	33395	100.000	88.87
42	1,2-Dichloropropane	63	6.007	6.007	(1.082)	83760	50.0000	50.98
43	2-Nitropropane	43	6.506	6.506	(1.351)	16343	50.0000	52.49(M)
44	Dibromomethane	93	6.116	6.116	(1.102)	48965	50.0000	51.72
45	4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	166404	100.000	97.05
46	cis-1,3-Dichloropropene	75	6.689	6.689	(1.205)	112080	50.0000	46.85
* 47	Chlorobenzene-d5	117	8.181	8.181	(1.000)	282267	50.0000	
$ 48	Toluene-d8	98	6.918	6.918	(0.846)	265972	50.0000	46.92
49	Ethyl Methacrylate	69	7.289	7.289	(1.313)	99022	50.0000	49.38
50	Toluene	91	6.978	6.978	(0.853)	310355	50.0000	49.25
51	trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	93193	50.0000	46.84
52	2-Hexanone	43	7.214	7.214	(0.882)	117753	100.000	100.02
53	1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	61653	50.0000	51.49
54	1,3-Dichloropropane	76	7.495	7.495	(0.916)	132384	50.0000	51.34
55	Dibromochloromethane	129	7.690	7.690	(0.940)	72142	50.0000	48.43
56	Tetrachloroethene	164	7.454	7.454	(0.911)	60708	50.0000	49.56
57	1,2-Dibromoethane	107	7.780	7.780	(0.951)	72541	50.0000	51.26
58	1-Chlorohexane	55	8.193	8.193	(1.476)	61251	50.0000	46.87
59	Chlorobenzene	112	8.208	8.208	(1.003)	201213	50.0000	51.23
60	1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	70291	50.0000	51.53
61	Ethylbenzene	106	8.305	8.305	(1.015)	102396	50.0000	50.88
62	m,p-Xylenes	106	8.406	8.406	(1.027)	261535	100.000	104.58
63	o-Xylene	106	8.744	8.744	(1.069)	127785	50.0000	52.79
64	Styrene	104	8.759	8.759	(1.071)	210363	50.0000	53.74
66	Bromoform	173	8.916	8.916	(1.090)	43376	50.0000	45.74
67	Isopropylbenzene	105	9.059	9.059	(1.107)	319726	50.0000	55.61
68	1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	105142	50.0000	51.81
$ 69	4-Bromofluorobenzene	95	9.190	9.190	(1.123)	100094	50.0000	48.80
* 70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	152824	50.0000	
71	1,2,3-Trichloropropane	75	9.359	9.359	(0.920)	102444	50.0000	49.20
72	trans-1,4-Dichloro-2-butene	53	9.374	9.374	(1.146)	21076	50.0000	48.09
73	n-Propylbenzene	91	9.411	9.411	(0.926)	375572	50.0000	54.06
74	Bromobenzene	156	9.314	9.314	(0.916)	88012	50.0000	50.74
75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	256523	50.0000	56.07

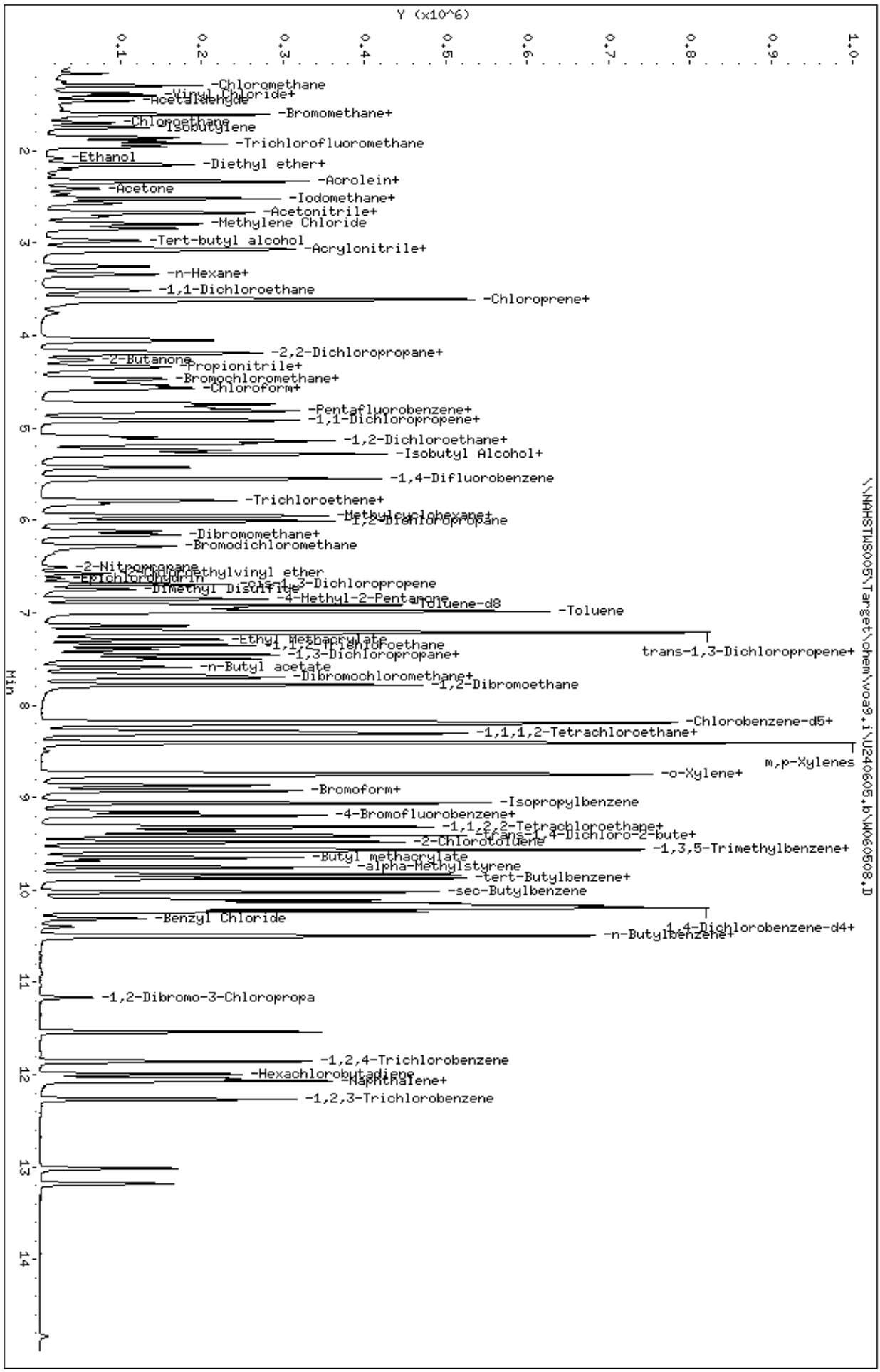
76	2-Chlorotoluene	91	9.478	9.478 (0.932)	225881	50.0000	50.14
77	4-Chlorotoluene	91	9.572	9.572 (0.941)	262494	50.0000	50.59

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	224789	50.0000	53.77
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	256377	50.0000	54.18
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	307852	50.0000	55.70
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	264990	50.0000	56.44
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	155724	50.0000	48.44
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	162529	50.0000	51.04
86	Benzyl Chloride	91	10.311	10.311	(1.260)	83027	50.0000	46.38
87	n-Butylbenzene	91	10.491	10.491	(1.032)	230022	50.0000	48.93
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	154054	50.0000	51.09
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	11983	50.0000	48.08
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	98804	50.0000	48.85
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	43986	50.0000	50.28
92	Naphthalene	128	12.065	12.065	(1.187)	238716	50.0000	49.57
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	92268	50.0000	52.39
146	Methyl acetate	43	2.712	2.712	(0.563)	81985	50.0000	52.63
138	Freon TF	101	2.333	2.333	(0.485)	55524	50.0000	52.32
141	Cyclohexane	56	4.781	4.781	(0.993)	96337	50.0000	49.73
142	Tetrahydrofuran	42	4.541	4.541	(0.943)	28656	100.000	102.88
147	Methylcyclohexane	55	5.943	5.943	(1.071)	174760	50.0000	49.02
135	1,4-Dioxane	88	6.165	6.165	(1.280)	16646	1000.00	1009.38
132	n-Butanol	56	5.824	5.824	(1.209)	42203	1000.00	911.61
136	n-Hexane	57	3.338	3.338	(0.693)	68438	50.0000	50.27
139	Diethyl ether	59	2.142	2.142	(0.445)	54574	50.0000	51.11
148	Tert-butyl alcohol	59	2.971	2.971	(0.617)	131660	1000.00	993.73
149	Isopropyl alcohol	45	2.566	2.566	(0.533)	107191	1000.00	1006.95
156	Diisopropyl ether	45	3.619	3.619	(0.752)	241287	50.0000	49.45
162	Butyl acrylate	55	8.732	8.732	(1.067)	131432	50.0000	47.16
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	352309	50.0000	48.51
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	240306	50.0000	50.00
167	Ethanol	45	2.082	2.082	(0.433)	19912	1000.00	1040.76
172	tert-Butyl formate	59	5.242	5.242	(1.089)	129054	100.000	100.43
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	434678	1000.00	917.10
140	1,3-Butadiene	54	1.404	1.404	(0.292)	35678	50.0000	49.63
182	Epichlorohydrin	57	6.629	6.629	(1.195)	17061	200.000	200.55
M 94	1,2-Dichloroethylene (total)	96				147081	100.000	(a)
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	101361	50.0000	54.47
130	Ethyl Acetate	43	4.534	4.534	(0.942)	32501	50.0000	56.30(M)
131	Methyl Acrylate	55	4.369	4.369	(0.907)	86917	50.0000	49.51
189	n-Butyl acetate	43	7.589	7.589	(0.928)	103100	50.0000	48.83(M)
134	Cyclohexanone	55	9.149	9.149	(0.900)	74333	1000.00	1120.82
185	Isoprene	39	2.154	2.154	(0.447)	17797	50.0000	49.16
188	Isopropyl acetate	43	5.284	5.284	(0.952)	228388	50.0000	51.53
150	Allyl alcohol	57	3.338	3.338	(0.693)	68438	1000.00	1005.48
194	Acetaldehyde	44	1.460	1.460	(0.303)	66813	200.000	206.63(M)
200	Dimethyl Disulfide	94	6.746	6.746	(0.825)	43586	50.0000	51.09
202	Isobutylene	41	1.749	1.749	(0.363)	34938	50.0000	49.44(M)
133	Ethyl Acrylate	55	5.943	5.943	(1.234)	174760	50.0000	47.87
163	Butyl methacrylate	41	9.647	9.647	(0.949)	83010	50.0000	52.52
159	Propylene oxide	43	2.199	2.199	(0.457)	11988	100.000	98.90
178	Ethylene oxide	44	1.602	1.602	(0.333)	290775	100.000	104.82
203	2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	84092	50.0000	51.14
204	Tetrahydrothiophene	60	7.672	7.672	(0.938)	69345	50.0000	51.82(A)

205 sec-Butyl Ether	57	7.214	7.214 (0.882)	150247	50.0000	43.46(AM)
187 n-Amyl acetate	43	8.927	8.927 (1.091)	130372	50.0000	49.60(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.



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Instrument: VOA9.i
Operator: TS
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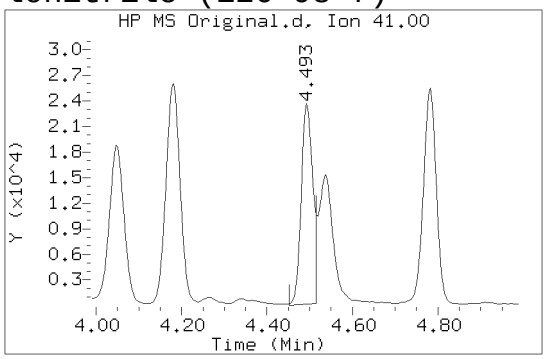
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LabSampID : VSTD050

Methacrylonitrile (126-98-7)

Reason Code:

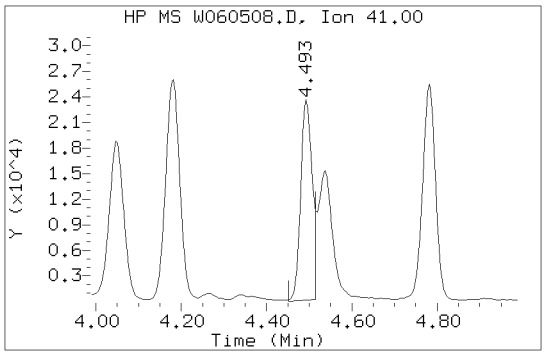
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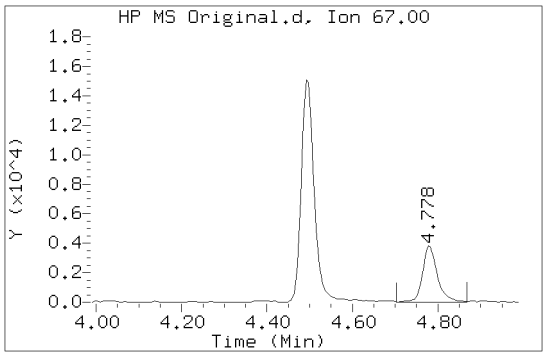
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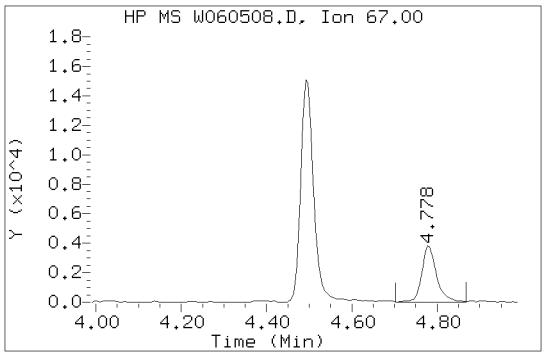
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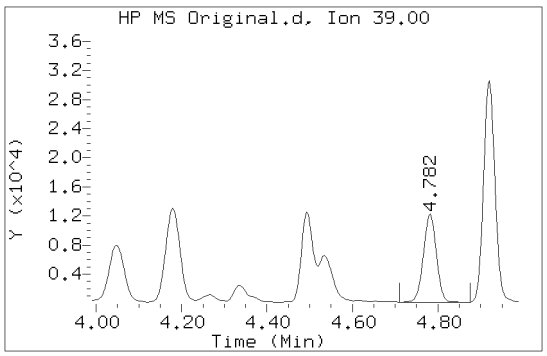
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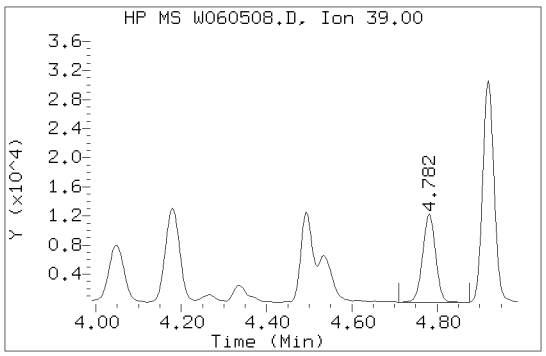
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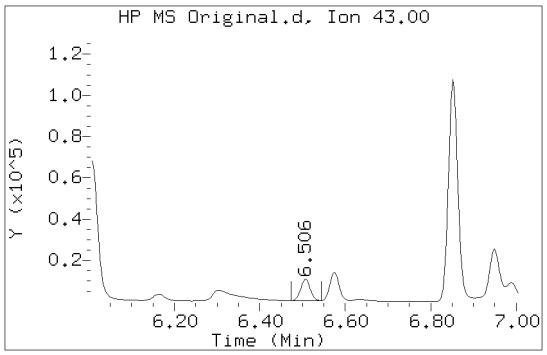


2-Nitropropane (79-46-9)

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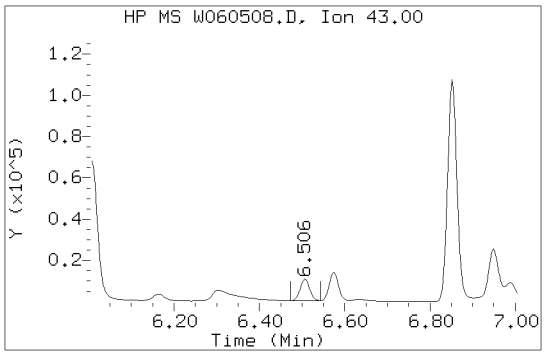
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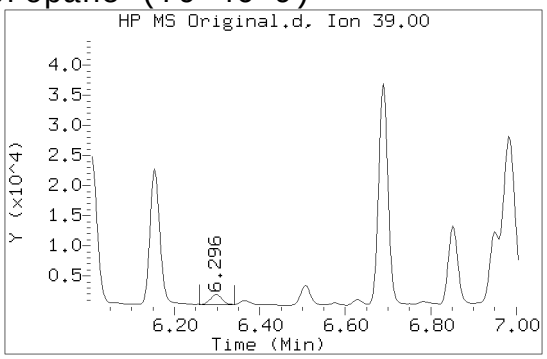
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LabSampID : VSTD050

2-Nitropropane (79-46-9)

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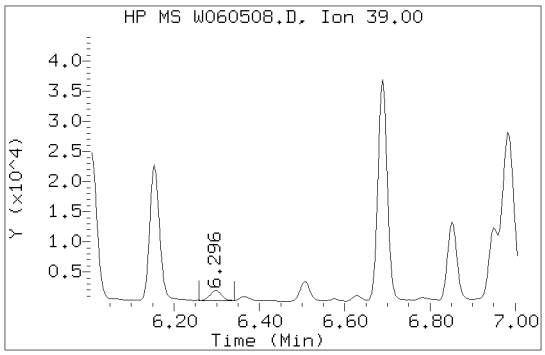
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AFTER

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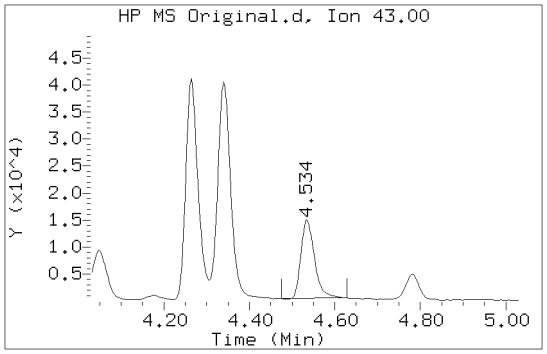


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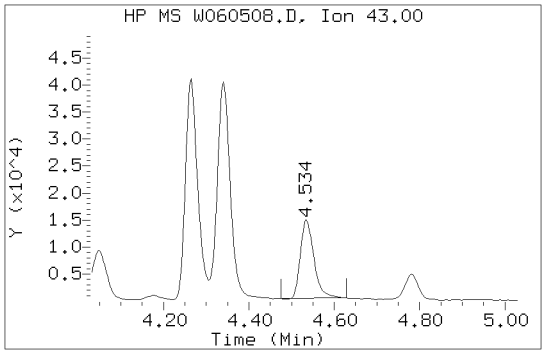
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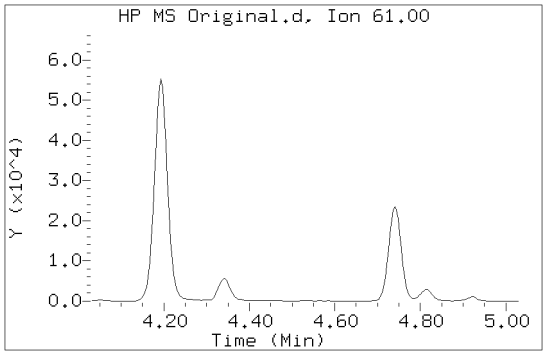
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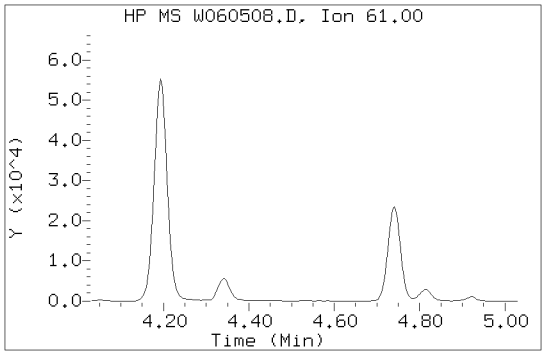
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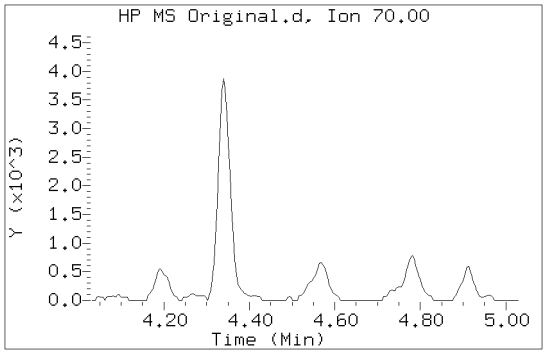
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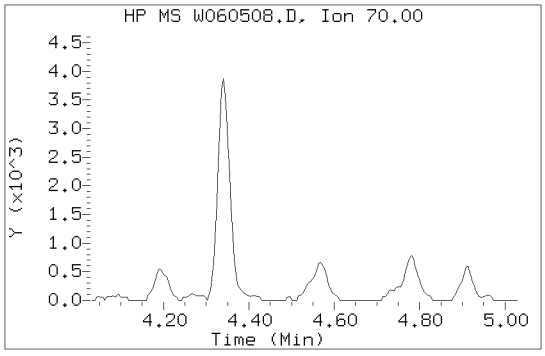
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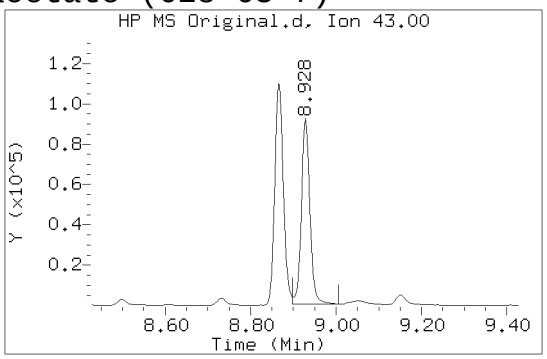
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Inj Date : 05-JUN-2024 21:07
InstruID : VOA9.i
LabSampID : VSTD050

n-Amyl acetate (628-63-7)

Reason Code:

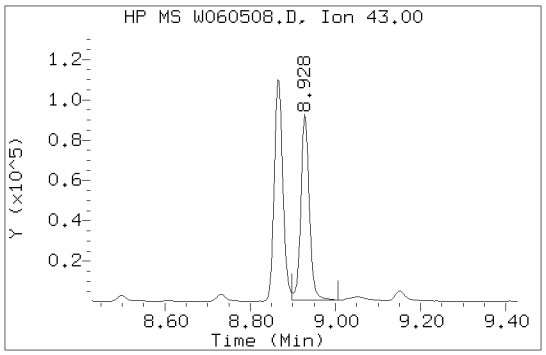
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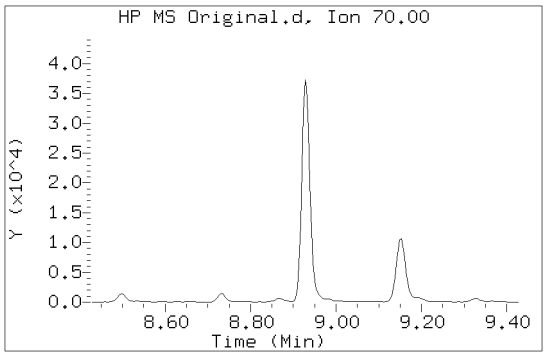
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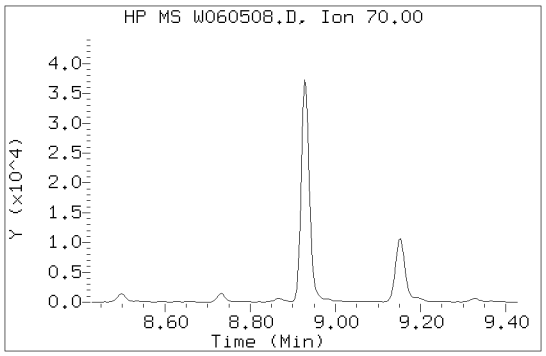
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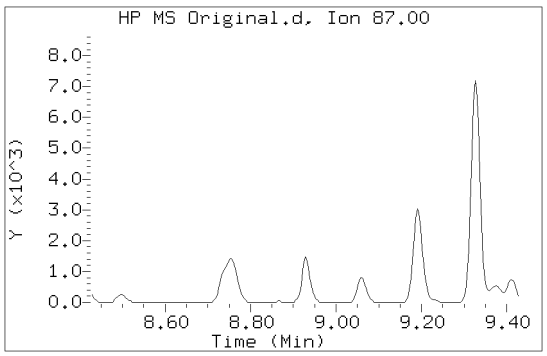
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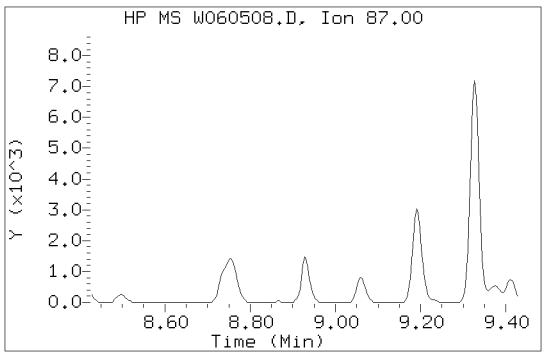
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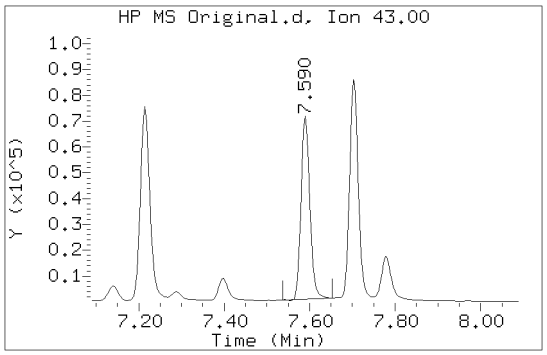


n-Butyl acetate (123-86-4)

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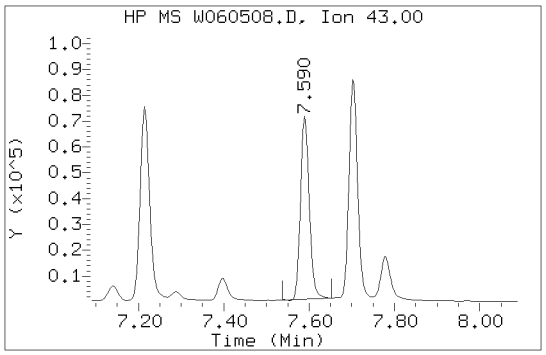
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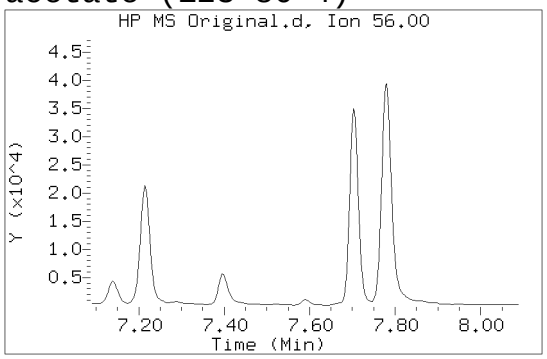
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InstruID : VOA9.i
LabSampID : VSTD050

n-Butyl acetate (123-86-4)

Reason Code:

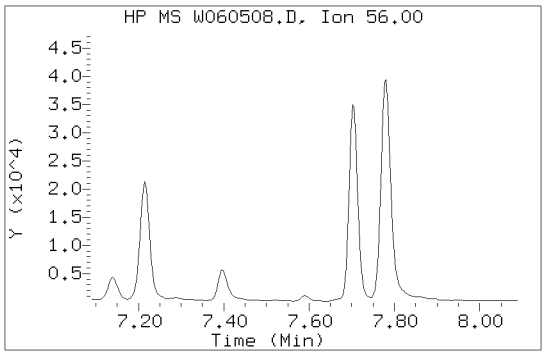
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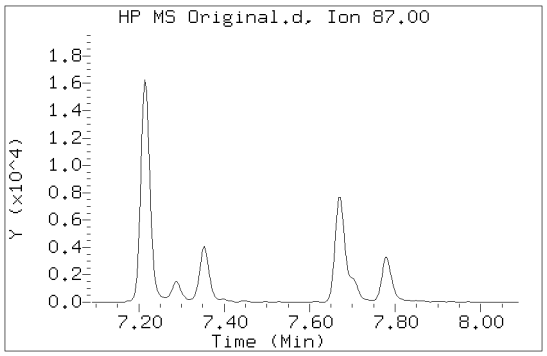
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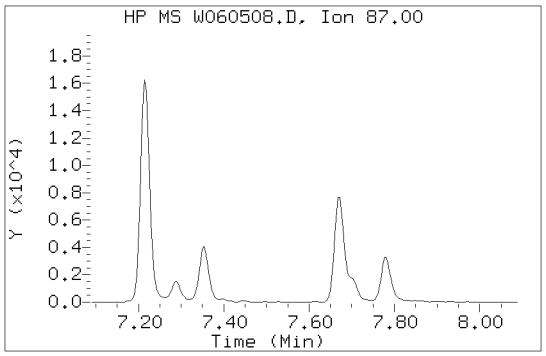
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AFTER

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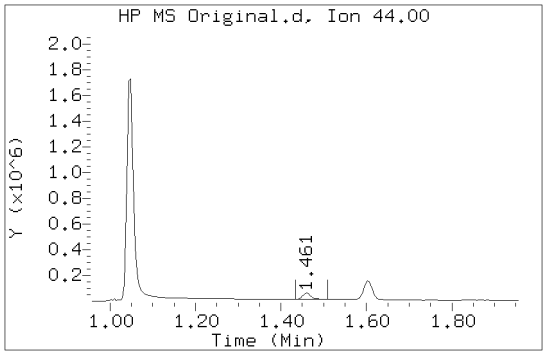


Acetaldehyde (75-07-0)

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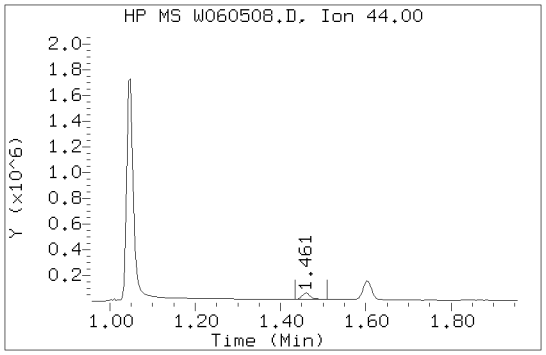
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17:11
RUCHA
PATEL



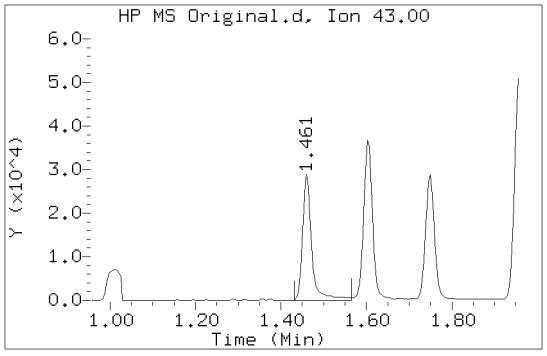
AFTER

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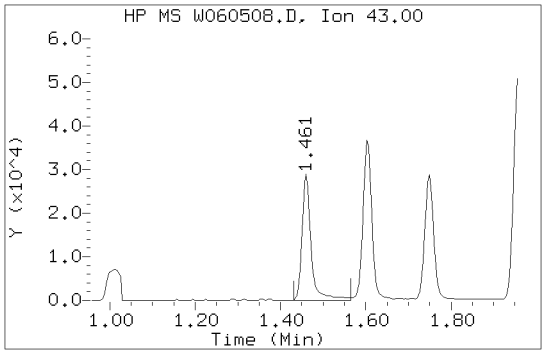
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AFTER

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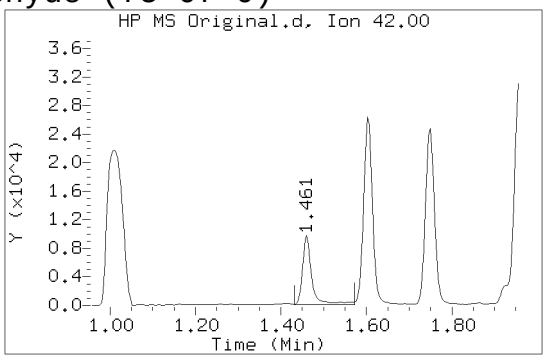
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InstruID : VOA9.i
LabSampID : VSTD050

Acetaldehyde (75-07-0)

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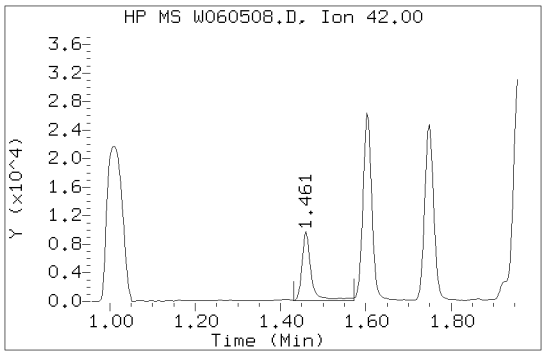
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AFTER

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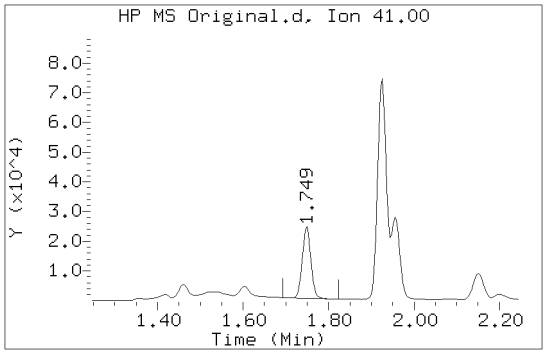


Isobutylene (115-11-7)

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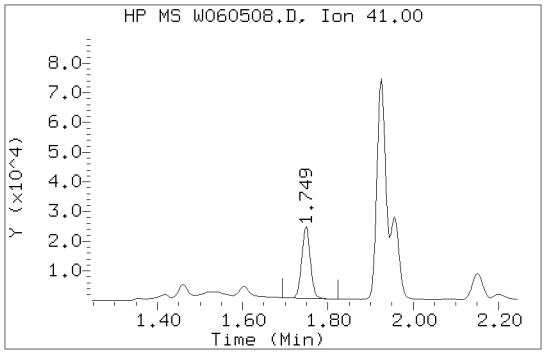
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21-Jun-2024
17:11
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PATEL



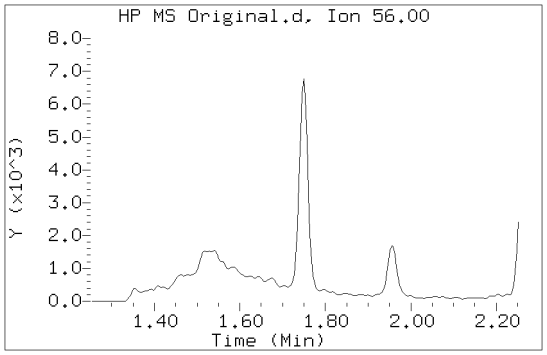
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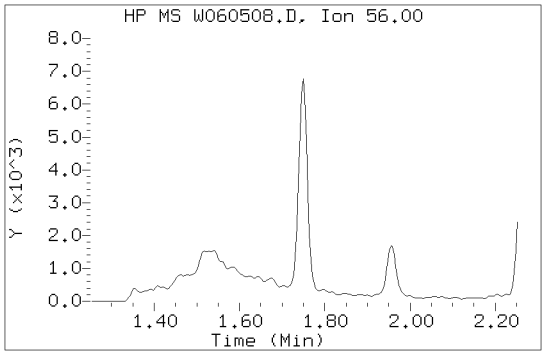
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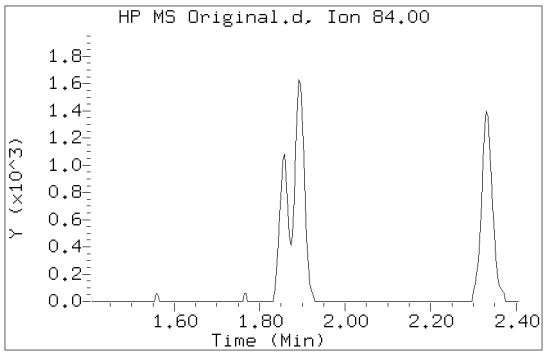
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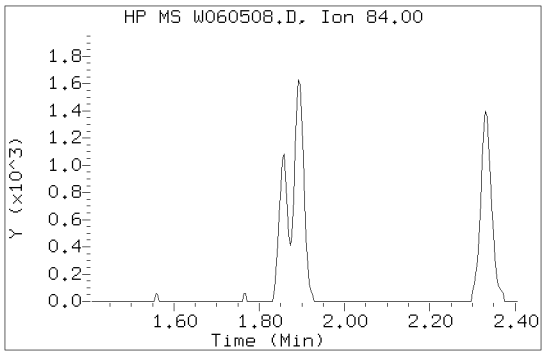
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AFTER

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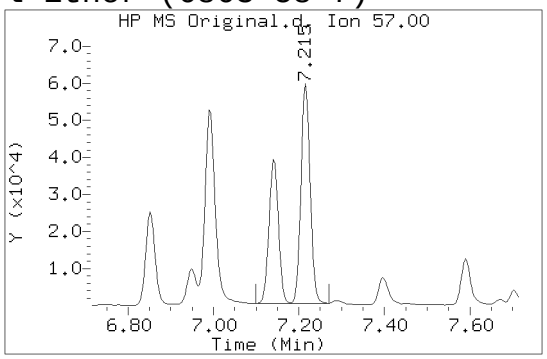
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Inj Date : 05-JUN-2024 21:07
InstruID : VOA9.i
LabSampID : VSTD050

sec-Butyl Ether (6863-58-7)

Reason Code:

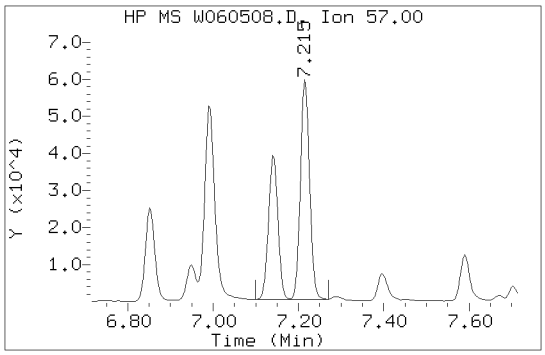
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AFTER

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21-Jun-2024
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RUCHA
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Data File: \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060509.D Page 1
Report Date: 21-Jun-2024 17:12

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060509.D
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Inj Date : 05-JUN-2024 21:29
Operator : TS Inst ID: VOA9.i
Smp Info : VSTD100;VSTD100;1;8
Misc Info : V9;WATER;0;1;
Comment   :
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Meth Date : 21-Jun-2024 17:12 VOA9.i Quant Type: ISTD
Cal Date : 05-JUN-2024 21:07 Cal File: W060508.D
Als bottle: 11 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.811	4.811	(1.000)	225031	50.0000	
2 Dichlorodifluoromethane	85	1.156	1.156	(0.240)	66430	100.000	94.36
3 Chloromethane	50	1.288	1.288	(0.268)	266239	100.000	106.20
4 Propionitrile	54	4.332	4.332	(0.900)	209211	1000.00	958.09
5 Vinyl Chloride	62	1.370	1.370	(0.285)	144478	100.000	94.54
6 Bromomethane	94	1.602	1.602	(0.333)	66230	100.000	96.23
7 Chloroethane	64	1.689	1.689	(0.351)	107274	100.000	97.24
8 Trichlorofluoromethane	101	1.887	1.887	(0.392)	195200	100.000	99.06
9 Acrolein	56	2.259	2.259	(0.469)	15155	200.000	201.80
10 Acetone	43	2.401	2.401	(0.499)	112184	200.000	191.10
11 1,1-Dichloroethene	96	2.322	2.322	(0.483)	121301	100.000	93.98
12 Isobutyl Alcohol	43	5.280	5.280	(1.097)	469087	2000.00	1959.98
13 Acetonitrile	39	2.663	2.663	(0.554)	179078	1000.00	960.59
14 Allyl Chloride	41	2.663	2.663	(0.554)	407504	100.000	96.50
15 Iodomethane	142	2.457	2.457	(0.511)	88741	200.000	199.88
16 Acrylonitrile	53	3.061	3.061	(0.636)	110053	200.000	196.24
17 Methylene Chloride	84	2.787	2.787	(0.579)	153032	100.000	99.87
18 Methyl tert-butyl ether	73	3.076	3.076	(0.639)	370094	100.000	96.61
19 Carbon Disulfide	76	2.510	2.510	(0.522)	705942	200.000	190.84
20 trans-1,2-Dichloroethene	96	3.049	3.049	(0.634)	135099	100.000	97.70

21 Vinyl Acetate	43	4.335	4.335 (0.901)	178473	200.000	202.50
22 1,1-Dichloroethane	63	3.507	3.507 (0.729)	267743	100.000	99.32

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060509.D Page 2
Report Date: 21-Jun-2024 17:12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
23	Chloroprene	53	3.601	3.601	(0.748)	224261	100.000	97.75
24	2-Butanone	43	4.260	4.260	(0.885)	162105	200.000	196.12
25	Methacrylonitrile	41	4.489	4.489	(0.933)	97174	100.000	96.22(aM)
26	2,2-Dichloropropane	77	4.178	4.178	(0.868)	190715	100.000	99.60
27	cis-1,2-Dichloroethene	96	4.189	4.189	(0.871)	163681	100.000	98.40
28	Chloroform	83	4.568	4.568	(0.949)	271520	100.000	91.54
29	Bromochloromethane	128	4.463	4.463	(0.928)	81350	100.000	101.02
$ 30	Dibromofluoromethane	113	4.744	4.744	(0.986)	148274	100.000	91.41
31	1,1,1-Trichloroethane	97	4.736	4.736	(0.984)	213702	100.000	100.35
32	1,1-Dichloropropene	75	4.916	4.916	(0.886)	199957	100.000	95.96
33	1,2-Dichloroethane	62	5.171	5.171	(0.932)	223618	100.000	100.97
34	Carbon Tetrachloride	117	4.905	4.905	(0.884)	178678	100.000	103.91
$ 35	1,2-Dichloroethane-d4	65	5.093	5.093	(1.058)	182224	100.000	92.14
* 36	1,4-Difluorobenzene	114	5.550	5.550	(1.000)	322621	50.0000	
37	Benzene	78	5.134	5.134	(0.925)	606369	100.000	99.06
38	Trichloroethene	130	5.782	5.782	(1.042)	153227	100.000	95.36
39	Bromodichloromethane	83	6.273	6.273	(1.130)	195395	100.000	102.07
40	Methyl Methacrylate	41	5.820	5.820	(1.210)	66130	100.000	94.12
41	2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	88149	200.000	200.56
42	1,2-Dichloropropane	63	6.007	6.007	(1.082)	171059	100.000	100.08
43	2-Nitropropane	43	6.506	6.506	(1.352)	37820	100.000	116.63(M)
44	Dibromomethane	93	6.116	6.116	(1.102)	99903	100.000	101.54
45	4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	363354	200.000	197.84
46	cis-1,3-Dichloropropene	75	6.686	6.686	(1.205)	250907	100.000	97.92
* 47	Chlorobenzene-d5	117	8.181	8.181	(1.000)	298132	50.0000	
$ 48	Toluene-d8	98	6.918	6.918	(0.846)	544015	100.000	90.86
49	Ethyl Methacrylate	69	7.289	7.289	(1.313)	210327	100.000	100.76
50	Toluene	91	6.978	6.978	(0.853)	631065	100.000	94.81
51	trans-1,3-Dichloropropene	75	7.192	7.192	(1.296)	208066	100.000	97.47
52	2-Hexanone	43	7.214	7.214	(0.882)	231901	200.000	187.74
53	1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	125721	100.000	99.61
54	1,3-Dichloropropane	76	7.495	7.495	(0.916)	273313	100.000	100.40
55	Dibromochloromethane	129	7.690	7.690	(0.940)	157625	100.000	98.17
56	Tetrachloroethene	164	7.454	7.454	(0.911)	121906	100.000	94.23
57	1,2-Dibromoethane	107	7.780	7.780	(0.951)	148566	100.000	98.86
58	1-Chlorohexane	55	8.193	8.193	(1.476)	126267	100.000	92.96
59	Chlorobenzene	112	8.208	8.208	(1.003)	410301	100.000	99.03
60	1,1,1,2-Tetrachloroethane	131	8.279	8.279	(1.012)	149143	100.000	103.52
61	Ethylbenzene	106	8.305	8.305	(1.015)	210204	100.000	98.89
62	m,p-Xylenes	106	8.406	8.406	(1.027)	534206	200.000	202.25
63	o-Xylene	106	8.744	8.744	(1.069)	261877	100.000	102.43
64	Styrene	104	8.759	8.759	(1.071)	440672	100.000	106.58
66	Bromoform	173	8.916	8.916	(1.090)	98710	100.000	94.50
67	Isopropylbenzene	105	9.059	9.059	(1.107)	643259	100.000	105.94
68	1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	214761	100.000	100.86
$ 69	4-Bromofluorobenzene	95	9.190	9.190	(1.123)	202850	100.000	93.64
* 70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	160756	50.0000	
71	1,2,3-Trichloropropane	75	9.359	9.359	(0.920)	217627	100.000	98.07
72	trans-1,4-Dichloro-2-butene	53	9.374	9.374	(1.146)	46658	100.000	100.05
73	n-Propylbenzene	91	9.411	9.411	(0.926)	759885	100.000	103.98
74	Bromobenzene	156	9.314	9.314	(0.916)	180396	100.000	98.59
75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	525689	100.000	109.24

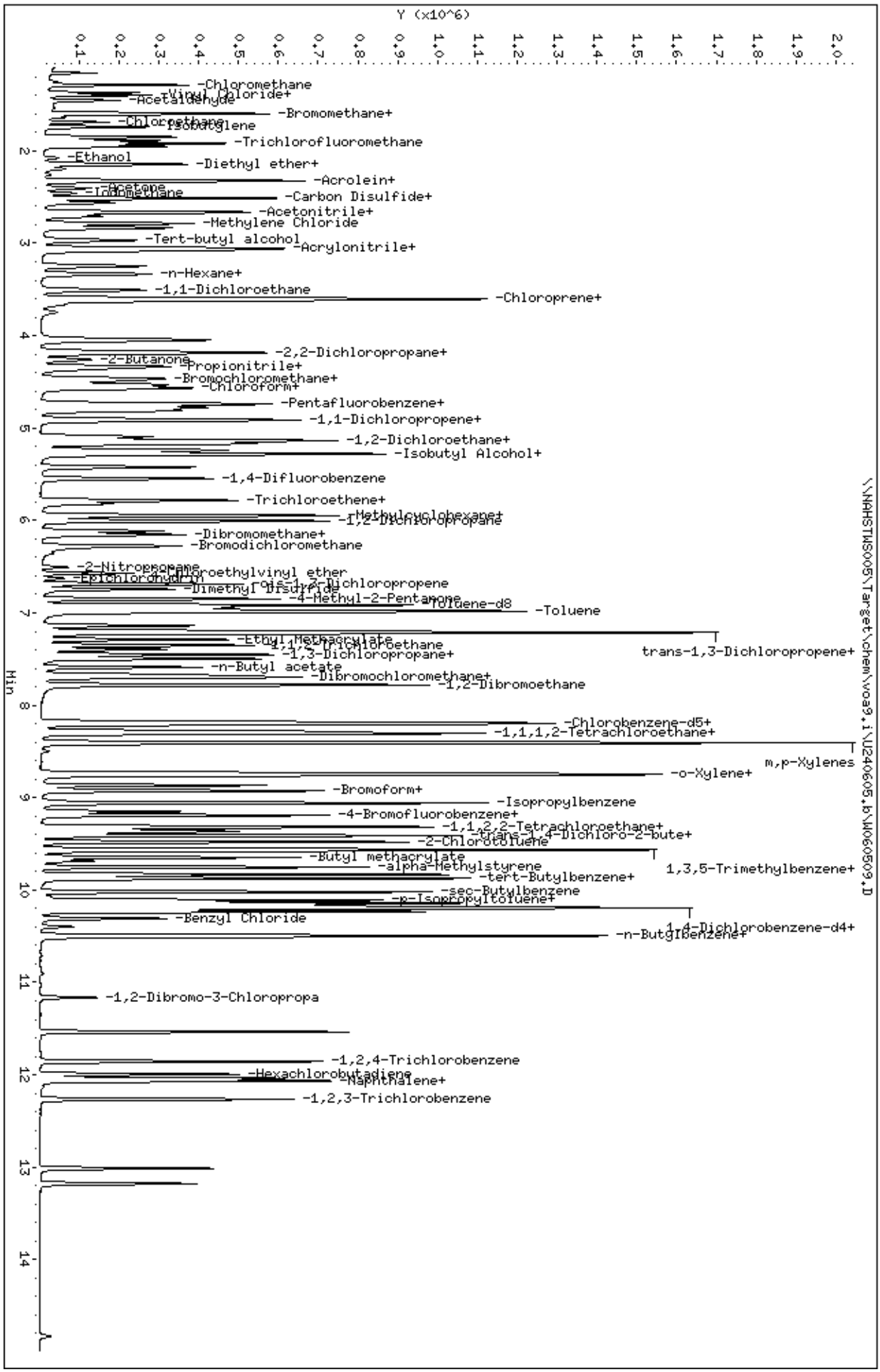
76	2-Chlorotoluene	91	9.478	9.478 (0.932)	458162	100.000	96.68
77	4-Chlorotoluene	91	9.572	9.572 (0.941)	536870	100.000	98.37

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	455488	100.000	103.58
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	532911	100.000	107.07
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	622189	100.000	107.02
82	p-Isopropyltoluene	119	10.142	10.142	(0.997)	545184	100.000	110.40
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	317253	100.000	93.82
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	331801	100.000	99.20
86	Benzyl Chloride	91	10.307	10.307	(1.260)	204159	100.000	100.45
87	n-Butylbenzene	91	10.491	10.491	(1.032)	480120	100.000	95.41
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	315605	100.000	99.52
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	27833	100.000	99.74
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	207612	100.000	95.84
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	89949	100.000	97.75
92	Naphthalene	128	12.065	12.065	(1.187)	504584	100.000	97.70
93	1,2,3-Trichlorobenzene	180	12.267	12.267	(1.206)	187478	100.000	101.20
146	Methyl acetate	43	2.708	2.708	(0.563)	163229	100.000	102.01
138	Freon TF	101	2.326	2.326	(0.483)	113027	100.000	102.26
141	Cyclohexane	56	4.778	4.778	(0.993)	190312	100.000	94.10
142	Tetrahydrofuran	42	4.538	4.538	(0.943)	55300	200.000	191.44
147	Methylcyclohexane	55	5.943	5.943	(1.071)	374351	100.000	100.86(A)
135	1,4-Dioxane	88	6.165	6.165	(1.281)	31952	2000.00	1859.68
132	n-Butanol	56	5.820	5.820	(1.210)	92092	2000.00	1848.96
136	n-Hexane	57	3.334	3.334	(0.693)	135314	100.000	94.86
139	Diethyl ether	59	2.139	2.139	(0.445)	106371	100.000	95.73
148	Tert-butyl alcohol	59	2.967	2.967	(0.617)	261734	2000.00	1888.85
149	Isopropyl alcohol	45	2.562	2.562	(0.533)	210042	2000.00	1887.90
156	Diisopropyl ether	45	3.616	3.616	(0.751)	493317	100.000	96.84
162	Butyl acrylate	55	8.729	8.729	(1.067)	289806	100.000	98.47
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	722443	100.000	93.66
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	487628	100.000	95.63
167	Ethanol	45	2.079	2.079	(0.432)	37556	2000.00	1893.77
172	tert-Butyl formate	59	5.239	5.239	(1.089)	268682	200.000	200.21(A)
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	933229	2000.00	1831.42
140	1,3-Butadiene	54	1.396	1.396	(0.290)	71920	100.000	95.61
182	Epichlorohydrin	57	6.626	6.626	(1.194)	38464	400.000	400.28
M 94	1,2-Dichloroethylene (total)	96				298780	200.000	(a)
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	217535	100.000	111.14
130	Ethyl Acetate	43	4.530	4.530	(0.942)	57788	100.000	98.17(M)
131	Methyl Acrylate	55	4.362	4.362	(0.907)	176642	100.000	95.90
189	n-Butyl acetate	43	7.589	7.589	(0.928)	224409	100.000	100.64(M)
134	Cyclohexanone	55	9.149	9.149	(0.900)	134205	2000.00	1872.30
185	Isoprene	39	2.150	2.150	(0.447)	36929	100.000	97.94
188	Isopropyl acetate	43	5.280	5.280	(0.951)	465647	100.000	99.21
150	Allyl alcohol	57	3.334	3.334	(0.693)	135314	2000.00	1897.28
194	Acetaldehyde	44	1.453	1.453	(0.302)	131432	400.000	389.31(M)
200	Dimethyl Disulfide	94	6.746	6.746	(0.825)	129891	100.000	99.89
202	Isobutylene	41	1.741	1.741	(0.362)	74543	100.000	101.29(M)
133	Ethyl Acrylate	55	5.943	5.943	(1.235)	374351	100.000	98.47
163	Butyl methacrylate	41	9.647	9.647	(0.949)	165827	100.000	96.27
159	Propylene oxide	43	2.195	2.195	(0.456)	23375	200.000	185.16
178	Ethylene oxide	44	1.595	1.595	(0.332)	487526	200.000	200.35
203	2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	193513	100.000	100.02
204	Tetrahydrothiophene	60	7.668	7.668	(0.937)	140083	100.000	99.11(A)

205 sec-Butyl Ether	57	7.214	7.214 (0.882)	318993	100.000	87.37(AM)
187 n-Amyl acetate	43	8.927	8.927 (1.091)	282795	100.000	101.87(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.



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Client ID: VSTD100
Sample Info: VSTD100;VSTD100;1;8
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

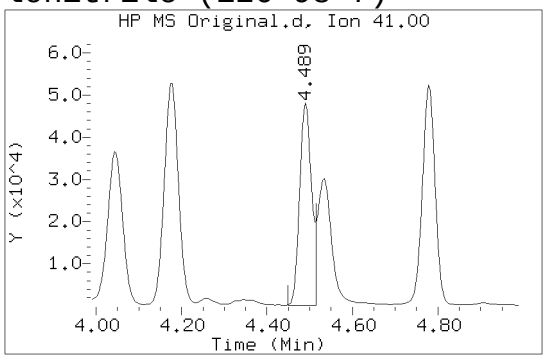
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LabSampID : VSTD100

Methacrylonitrile (126-98-7)

Reason Code:

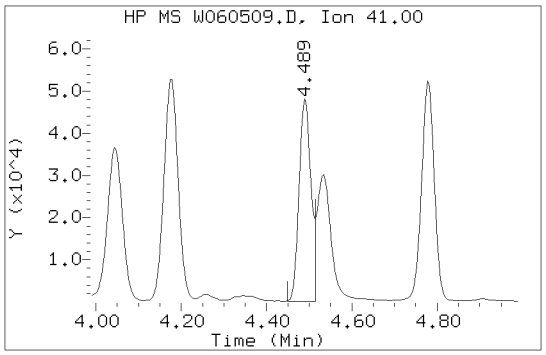
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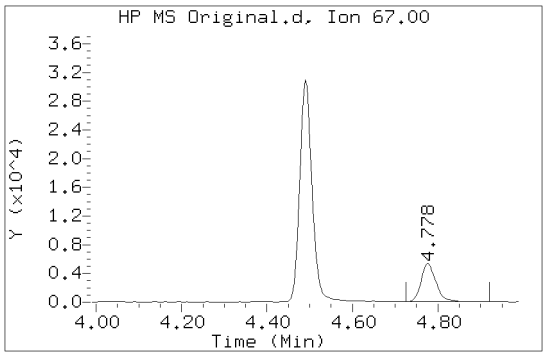
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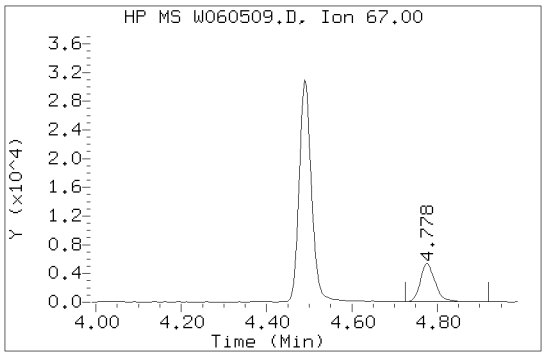
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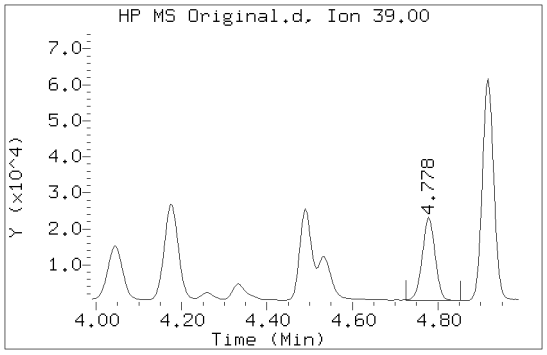
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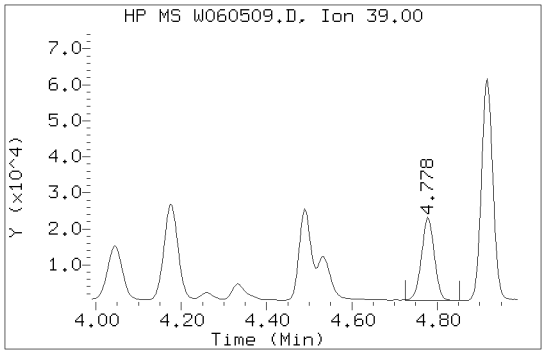
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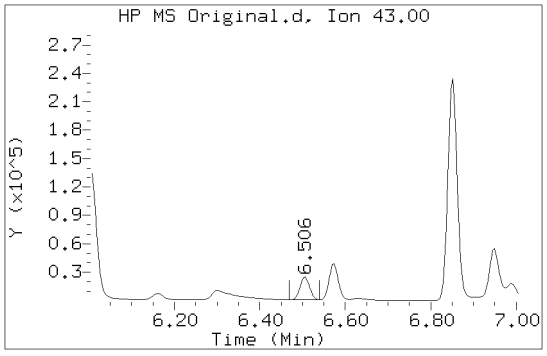


2-Nitropropane (79-46-9)

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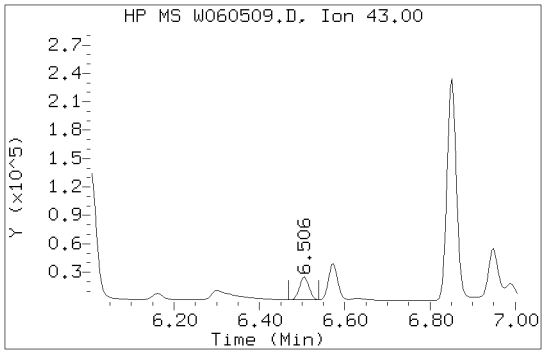
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AFTER

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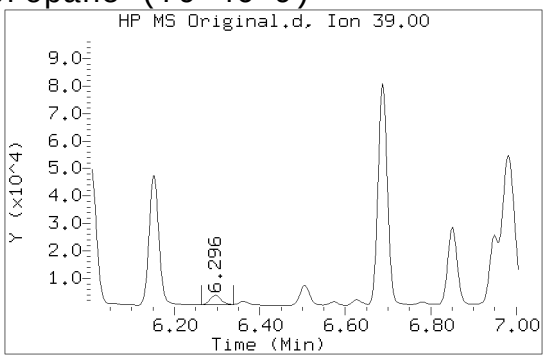
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LabSampID : VSTD100

2-Nitropropane (79-46-9)

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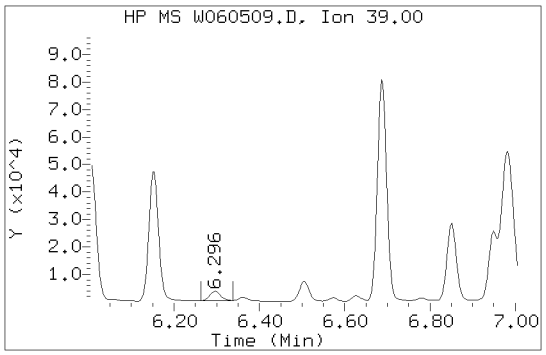
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AFTER

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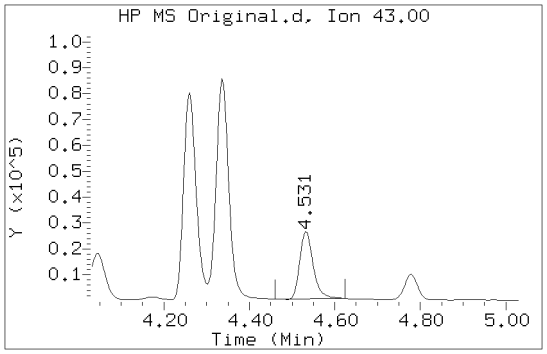


Ethyl Acetate (141-78-6)

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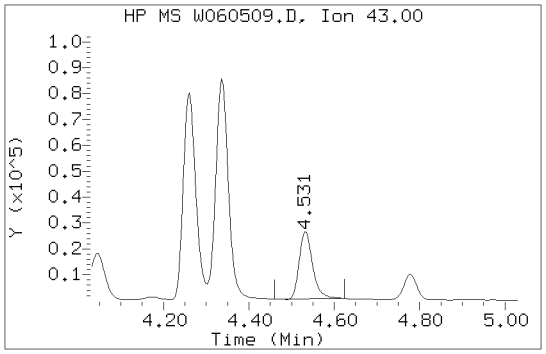
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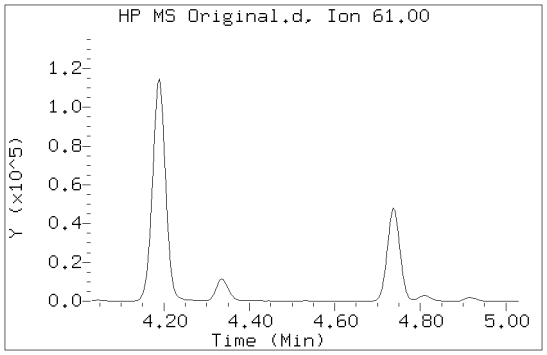
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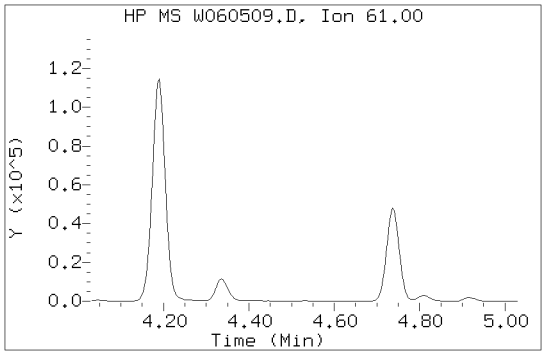
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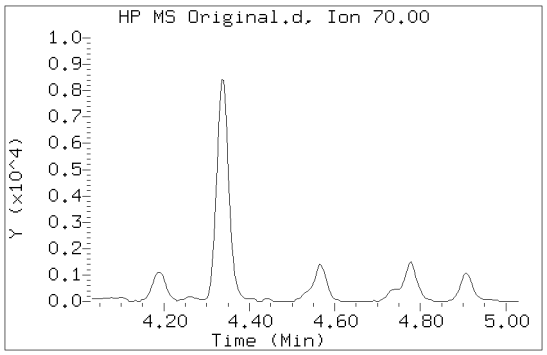
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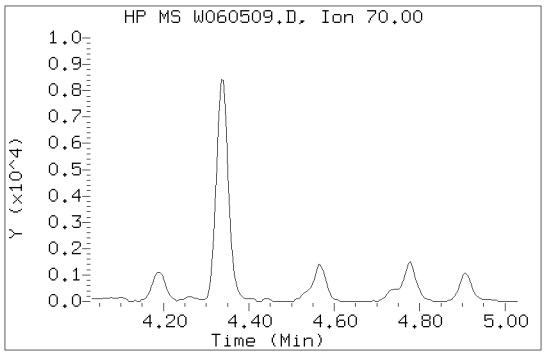
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AFTER

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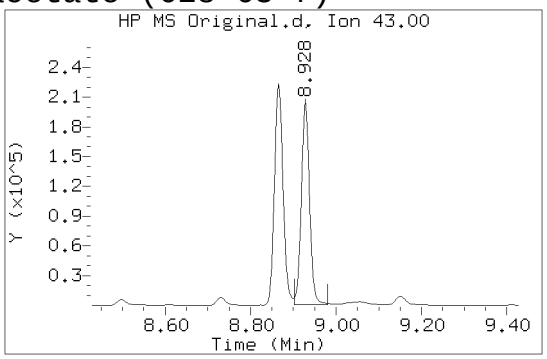
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InstruID : VOA9.i
LabSampID : VSTD100

n-Amyl acetate (628-63-7)

Reason Code:

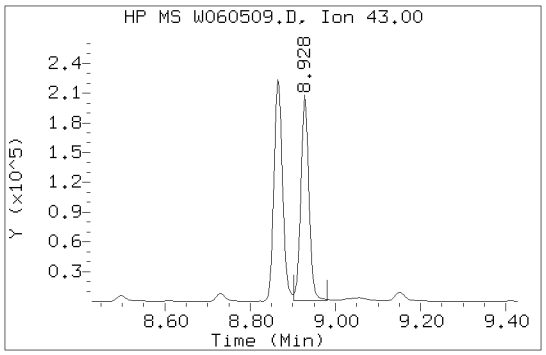
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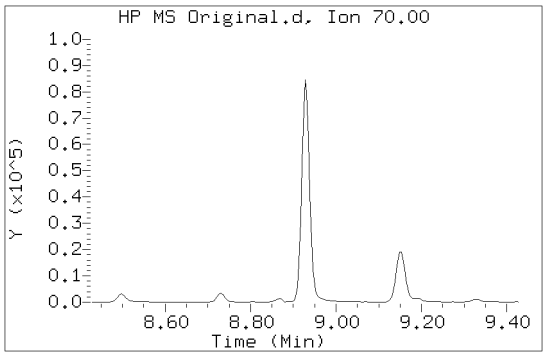
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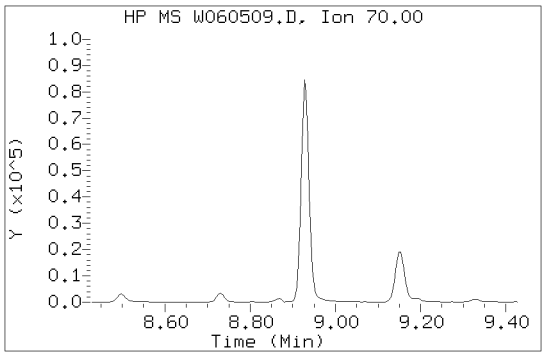
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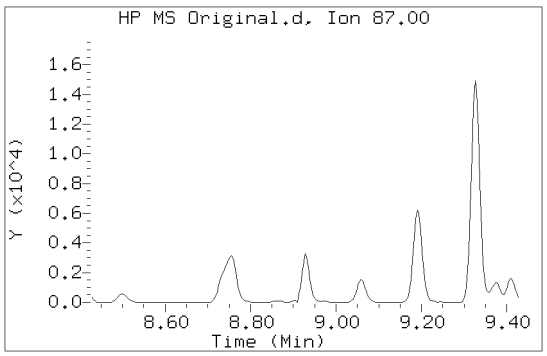
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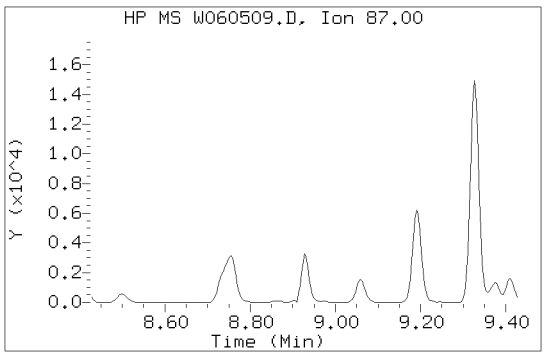
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AFTER

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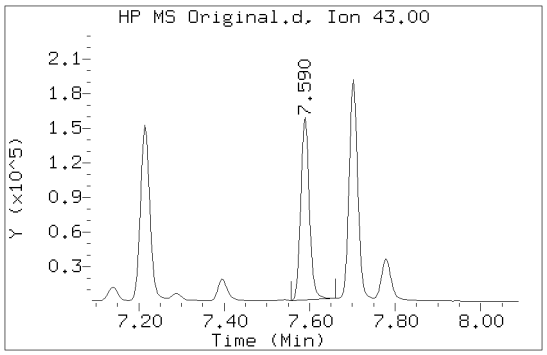


n-Butyl acetate (123-86-4)

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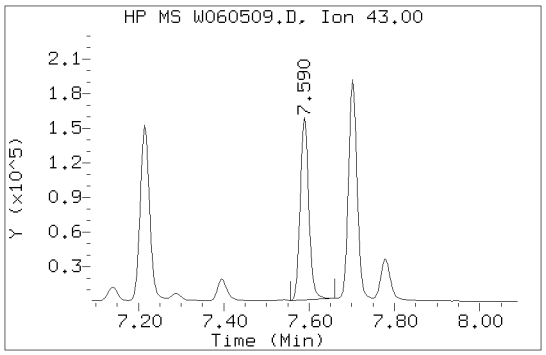
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AFTER

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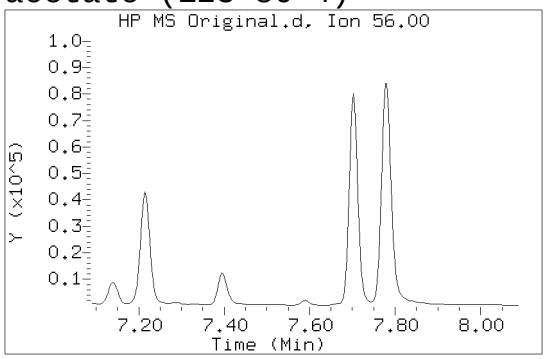
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LabSampID : VSTD100

n-Butyl acetate (123-86-4)

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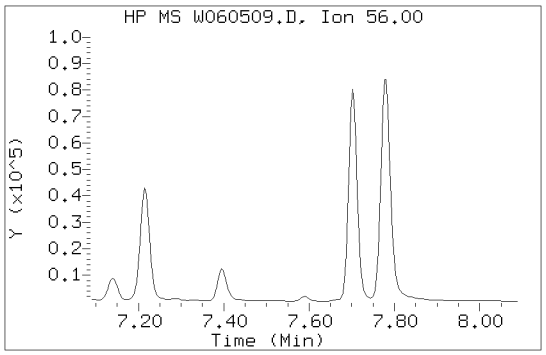
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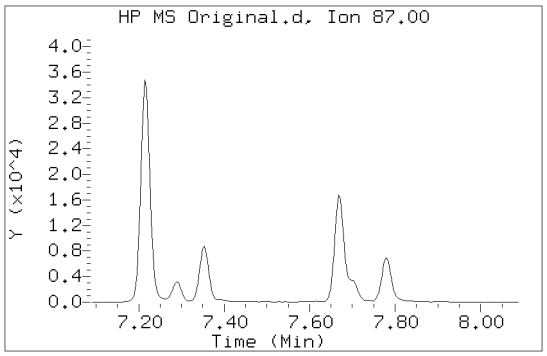
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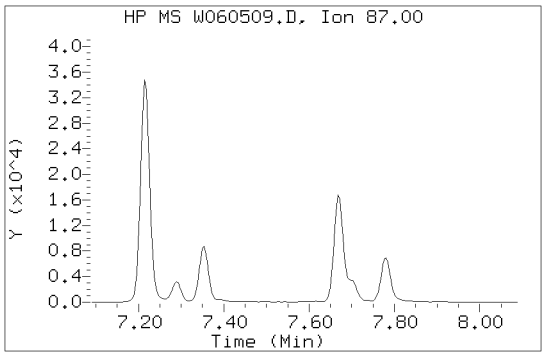
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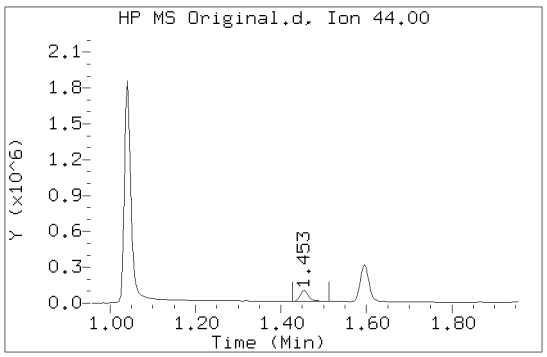


Acetaldehyde (75-07-0)

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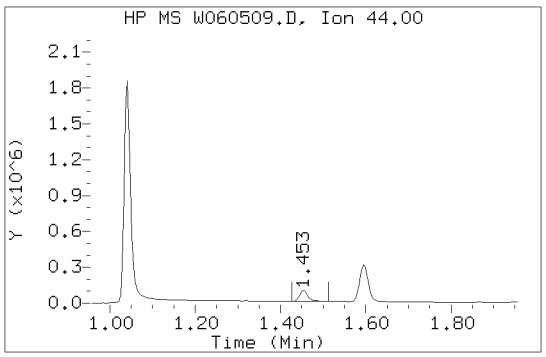
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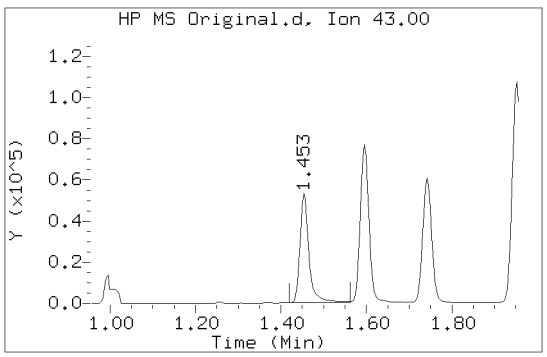
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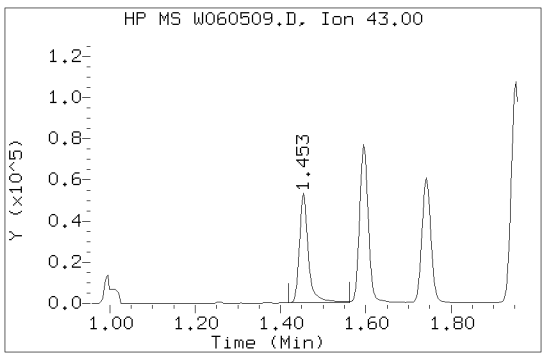
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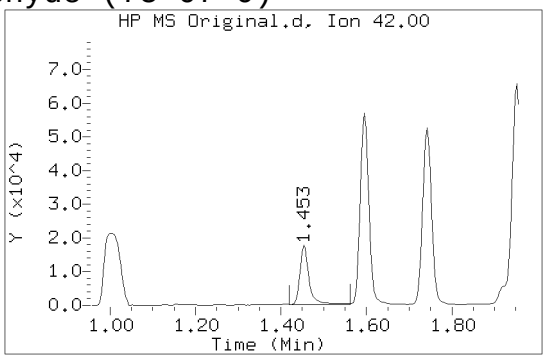
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LabSampID : VSTD100

Acetaldehyde (75-07-0)

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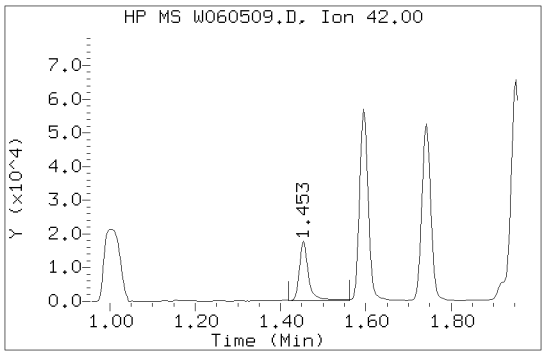
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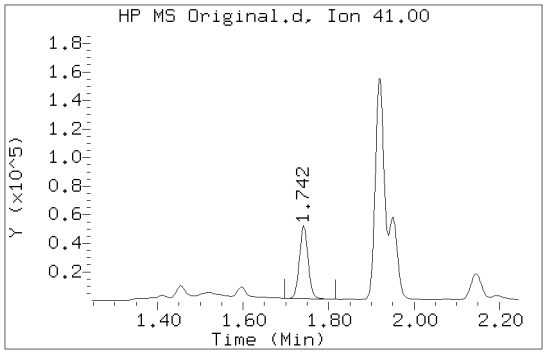


Isobutylene (115-11-7)

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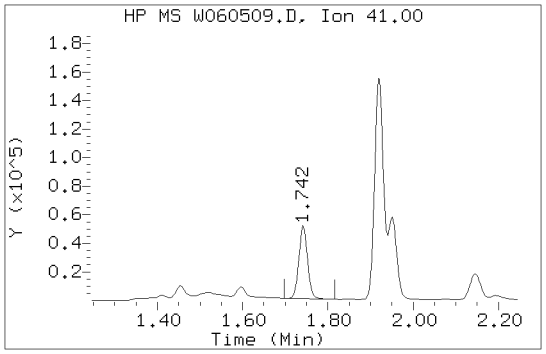
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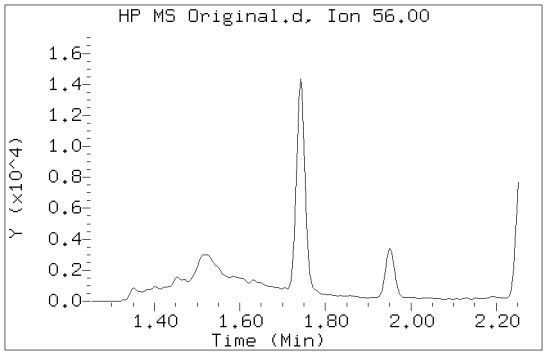
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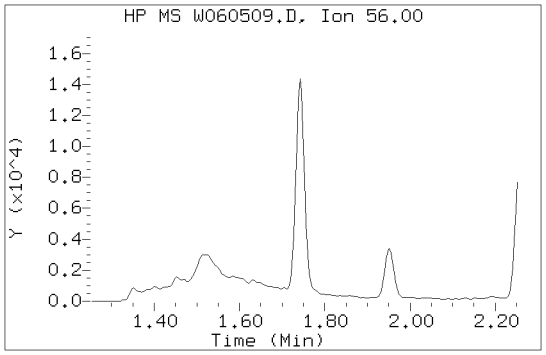
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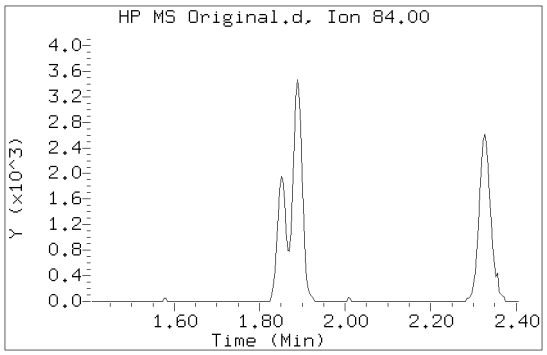
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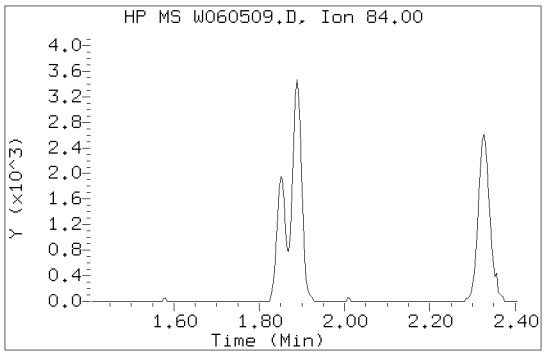
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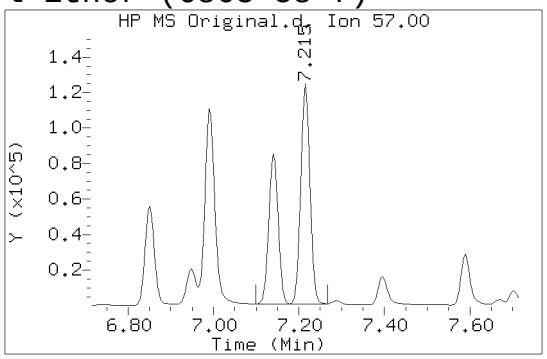
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Inj Date : 05-JUN-2024 21:29
InstruID : VOA9.i
LabSampID : VSTD100

sec-Butyl Ether (6863-58-7)

Reason Code:

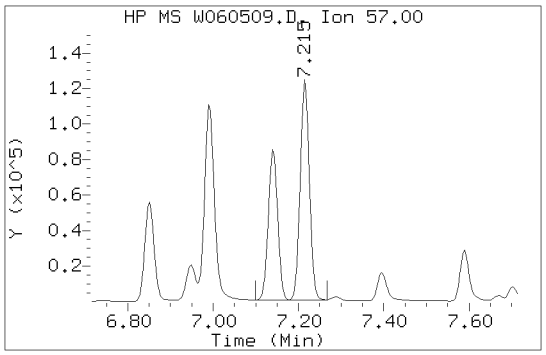
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AFTER

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Data File: \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060510.D Page 1
Report Date: 21-Jun-2024 17:12

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060510.D
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Inj Date : 05-JUN-2024 21:50
Operator : TS Inst ID: VOA9.i
Smp Info : VSTD150;VSTD150;1;9
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240605.b\8260C.m
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Cal Date : 05-JUN-2024 21:29 Cal File: W060509.D
Als bottle: 12 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.819	4.819	(1.000)	224098	50.0000	
2 Dichlorodifluoromethane	85	1.168	1.168	(0.242)	108701	150.000	154.54
3 Chloromethane	50	1.299	1.299	(0.270)	381192	150.000	154.26
4 Propionitrile	54	4.339	4.339	(0.900)	325941	1500.00	1498.05
5 Vinyl Chloride	62	1.381	1.381	(0.287)	229224	150.000	150.63
6 Bromomethane	94	1.610	1.610	(0.334)	103324	150.000	151.07
7 Chloroethane	64	1.700	1.700	(0.353)	167664	150.000	152.72
8 Trichlorofluoromethane	101	1.899	1.899	(0.394)	314695	150.000	160.37
9 Acrolein	56	2.270	2.270	(0.471)	22474	300.000	288.36
10 Acetone	43	2.412	2.412	(0.501)	171689	300.000	295.99
11 1,1-Dichloroethene	96	2.337	2.337	(0.485)	196399	150.000	152.80
12 Isobutyl Alcohol	43	5.287	5.287	(1.097)	720278	3000.00	3022.06
13 Acetonitrile	39	2.675	2.675	(0.555)	282036	1500.00	1518.14
14 Allyl Chloride	41	2.675	2.675	(0.555)	639130	150.000	151.94
15 Iodomethane	142	2.468	2.468	(0.512)	196790	300.000	25.98
16 Acrylonitrile	53	3.068	3.068	(0.637)	168175	300.000	301.92
17 Methylene Chloride	84	2.795	2.795	(0.580)	226783	150.000	149.30
18 Methyl tert-butyl ether	73	3.087	3.087	(0.641)	572755	150.000	150.17
19 Carbon Disulfide	76	2.521	2.521	(0.523)	1128055	300.000	306.23
20 trans-1,2-Dichloroethene	96	3.061	3.061	(0.635)	208803	150.000	151.60

21 Vinyl Acetate	43	4.343	4.343 (0.901)	258861	300.000	294.73	
22 1,1-Dichloroethane	63	3.514	3.514 (0.729)	401447	150.000	149.69	

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060510.D Page 2
Report Date: 21-Jun-2024 17:12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	3.612	3.612	(0.750)	352949	150.000	154.48
	24 2-Butanone	43	4.268	4.268	(0.886)	244157	300.000	297.02
	25 Methacrylonitrile	41	4.496	4.496	(0.933)	148796	150.000	147.15(aM)
	26 2,2-Dichloropropane	77	4.185	4.185	(0.869)	302510	150.000	158.64
	27 cis-1,2-Dichloroethene	96	4.197	4.197	(0.871)	250121	150.000	150.90
	28 Chloroform	83	4.575	4.575	(0.949)	409747	150.000	138.73
	29 Bromochloromethane	128	4.470	4.470	(0.928)	119214	150.000	148.90
$	30 Dibromofluoromethane	113	4.751	4.751	(0.986)	221107	150.000	136.88
	31 1,1,1-Trichloroethane	97	4.744	4.744	(0.984)	343905	150.000	162.16
	32 1,1-Dichloropropene	75	4.924	4.924	(0.887)	317027	150.000	152.76
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	330090	150.000	149.97
	34 Carbon Tetrachloride	117	4.913	4.913	(0.885)	287928	150.000	168.14
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	271469	150.000	137.85
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	321312	50.0000	
	37 Benzene	78	5.141	5.141	(0.926)	918326	150.000	150.57
	38 Trichloroethene	130	5.790	5.790	(1.043)	239586	150.000	149.72
	39 Bromodichloromethane	83	6.277	6.277	(1.130)	297041	150.000	155.80
	40 Methyl Methacrylate	41	5.823	5.823	(1.208)	106205	150.000	150.38
	41 2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	150387	300.000	307.85
	42 1,2-Dichloropropane	63	6.011	6.011	(1.082)	255544	150.000	150.16
	43 2-Nitropropane	43	6.506	6.506	(1.350)	62473	150.000	193.47(M)
	44 Dibromomethane	93	6.120	6.120	(1.102)	145069	150.000	148.14
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	539055	300.000	296.99
	46 cis-1,3-Dichloropropene	75	6.689	6.689	(1.205)	381863	150.000	148.34
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	293312	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	817446	150.000	138.77
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	345145	150.000	166.03
	50 Toluene	91	6.978	6.978	(0.853)	959577	150.000	146.54
	51 trans-1,3-Dichloropropene	75	7.195	7.195	(1.296)	320938	150.000	149.52
	52 2-Hexanone	43	7.218	7.218	(0.882)	365524	300.000	301.65
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	185722	150.000	149.68
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	401664	150.000	149.99
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	236457	150.000	148.69
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	192012	150.000	150.85
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	220913	150.000	149.11
	58 1-Chlorohexane	55	8.196	8.196	(1.476)	208843	150.000	154.46
	59 Chlorobenzene	112	8.208	8.208	(1.003)	613010	150.000	150.47
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	226553	150.000	159.84
	61 Ethylbenzene	106	8.305	8.305	(1.015)	323660	150.000	154.77
	62 m,p-Xylenes	106	8.406	8.406	(1.027)	820527	300.000	315.76
	63 o-Xylene	106	8.744	8.744	(1.068)	393377	150.000	156.40
	64 Styrene	104	8.759	8.759	(1.070)	665479	150.000	163.60
	66 Bromoform	173	8.916	8.916	(1.089)	153936	150.000	147.73
	67 Isopropylbenzene	105	9.059	9.059	(1.107)	1006051	150.000	168.41
	68 1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	312825	150.000	148.51
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	302997	150.000	142.18
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	159170	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.921)	323632	150.000	146.65
	72 trans-1,4-Dichloro-2-butene	53	9.373	9.373	(1.145)	71862	150.000	156.25
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	1197081	150.000	165.43
	74 Bromobenzene	156	9.313	9.313	(0.916)	270926	150.000	149.39
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	825853	150.000	173.32

76	2-Chlorotoluene	91	9.482	9.482 (0.933)	700064	150.000	149.20
77	4-Chlorotoluene	91	9.572	9.572 (0.941)	817721	150.000	151.33

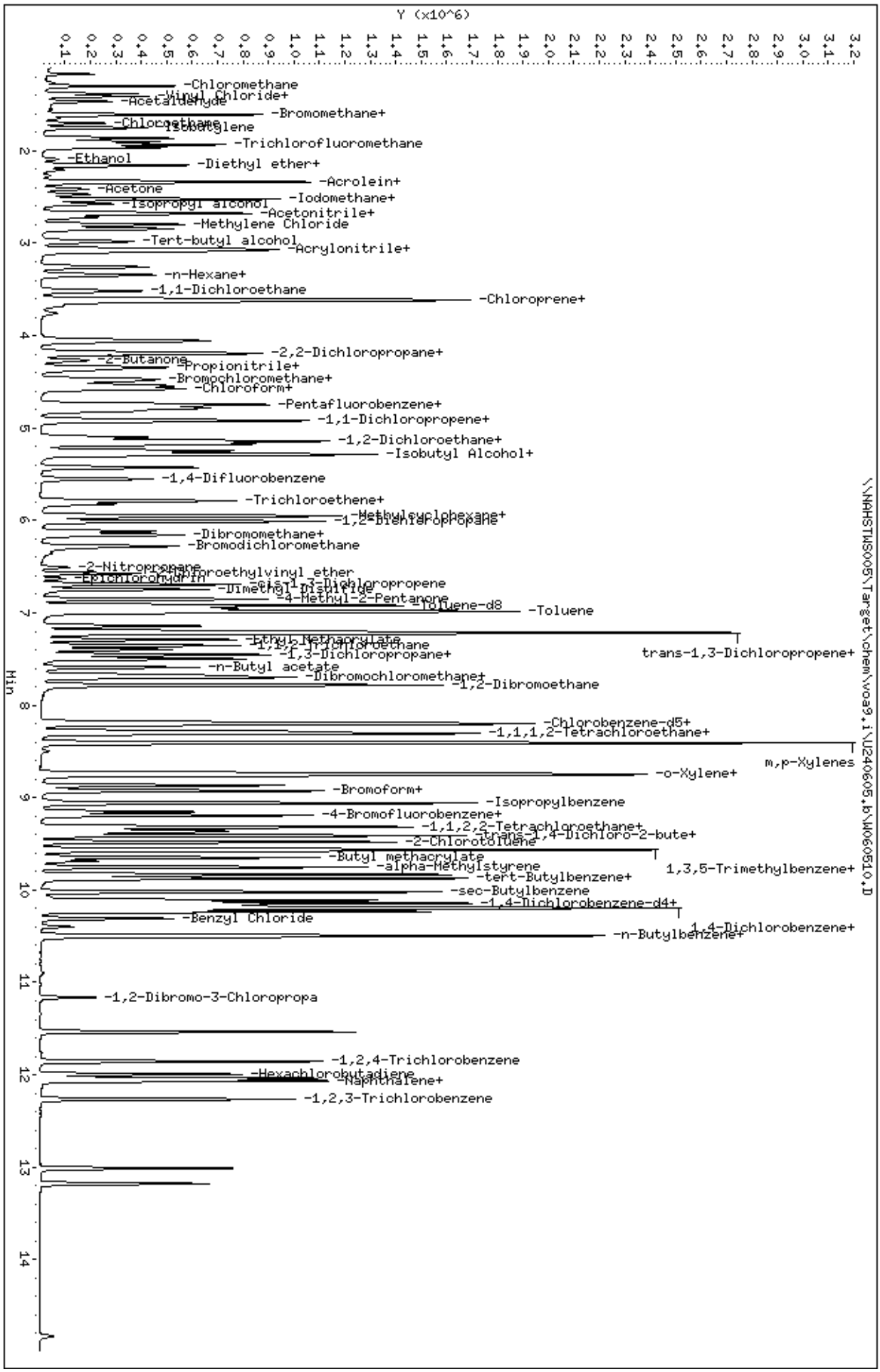
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Report Date: 21-Jun-2024 17:12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	714556	150.000	164.12
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	827658	150.000	167.94
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	992445	150.000	172.42
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	865877	150.000	177.10
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	482857	150.000	144.23
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	499141	150.000	150.80
86	Benzyl Chloride	91	10.307	10.307	(1.259)	328807	150.000	152.98
87	n-Butylbenzene	91	10.491	10.491	(1.032)	771364	150.000	153.74
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	473254	150.000	150.73
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	44798	150.000	152.58
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	328333	150.000	152.03
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	143551	150.000	157.56
92	Naphthalene	128	12.065	12.065	(1.187)	774087	150.000	150.34
93	1,2,3-Trichlorobenzene	180	12.267	12.267	(1.206)	297539	150.000	162.22
146	Methyl acetate	43	2.720	2.720	(0.564)	236899	150.000	149.36
138	Freon TF	101	2.337	2.337	(0.485)	181462	150.000	164.87
141	Cyclohexane	56	4.785	4.785	(0.993)	310874	150.000	154.20
142	Tetrahydrofuran	42	4.545	4.545	(0.943)	87502	300.000	304.76
147	Methylcyclohexane	55	5.947	5.947	(1.071)	596883	150.000	161.48(A)
135	1,4-Dioxane	88	6.165	6.165	(1.279)	53042	3000.00	3099.50
132	n-Butanol	56	5.823	5.823	(1.208)	150194	3000.00	2992.50
136	n-Hexane	57	3.342	3.342	(0.694)	222995	150.000	156.56
139	Diethyl ether	59	2.150	2.150	(0.446)	167293	150.000	151.23
148	Tert-butyl alcohol	59	2.978	2.978	(0.618)	415397	3000.00	3005.07
149	Isopropyl alcohol	45	2.573	2.573	(0.534)	335539	3000.00	3023.89
156	Diisopropyl ether	45	3.627	3.627	(0.753)	763018	150.000	150.28
162	Butyl acrylate	55	8.729	8.729	(1.066)	499325	150.000	172.45
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	1167216	150.000	152.23
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	772417	150.000	152.45
167	Ethanol	45	2.094	2.094	(0.435)	60125	3000.00	3051.15
172	tert-Butyl formate	59	5.246	5.246	(1.089)	438392	300.000	327.69(A)
151	4-Methyl-2-pentanol	45	7.218	7.218	(1.300)	1550800	3000.00	3018.07
140	1,3-Butadiene	54	1.408	1.408	(0.292)	115416	150.000	153.77
182	Epichlorohydrin	57	6.629	6.629	(1.194)	63964	600.000	599.87
M 94	1,2-Dichloroethylene (total)	96				458924	300.000	(a)
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	344358	150.000	177.68
130	Ethyl Acetate	43	4.541	4.541	(0.942)	86452	150.000	148.94(M)
131	Methyl Acrylate	55	4.373	4.373	(0.907)	277014	150.000	150.59
189	n-Butyl acetate	43	7.589	7.589	(0.927)	345192	150.000	157.35(M)
134	Cyclohexanone	55	9.152	9.152	(0.900)	228370	3000.00	3039.92
185	Isoprene	39	2.161	2.161	(0.449)	58145	150.000	154.86
188	Isopropyl acetate	43	5.287	5.287	(0.952)	714858	150.000	150.33
150	Allyl alcohol	57	3.342	3.342	(0.694)	222995	3000.00	3131.28
194	Acetaldehyde	44	1.464	1.464	(0.304)	195750	600.000	581.69(M)
200	Dimethyl Disulfide	94	6.746	6.746	(0.824)	259716	150.000	64.51
202	Isobutylene	41	1.752	1.752	(0.364)	116080	150.000	158.39(M)
133	Ethyl Acrylate	55	5.947	5.947	(1.234)	596883	150.000	157.67
163	Butyl methacrylate	41	9.647	9.647	(0.949)	275621	150.000	151.94
159	Propylene oxide	43	2.206	2.206	(0.458)	39129	300.000	311.25(A)
178	Ethylene oxide	44	1.606	1.606	(0.333)	638320	300.000	300.31
203	2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	339518	150.000	149.93
204	Tetrahydrothiophene	60	7.668	7.668	(0.937)	218920	150.000	157.44(A)

205 sec-Butyl Ether	57	7.218	7.218 (0.882)	524832	150.000	146.12(AM)
187 n-Amyl acetate	43	8.927	8.927 (1.091)	447127	150.000	163.72(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.


Y (x10^6)
Min
-Chloromethane
-Vinyl Chloride+
-Acetaldehyde
-Bromomethane+
-Chloroethane
Isobutylene
-Trichlorofluoromethane
-Ethanol
-Diethyl ether+
-Acrolein+
-Acetone
-Iodomethane+
-Isopropyl alcohol
-Acetonitrile+
-Methylene Chloride
-Tert-butyl alcohol
-Acrylonitrile+
-n-Hexane+
-1,1-Dichloroethane
-Chloroprene+
-2,2-Dichloropropane+
-2-Butanone
-Propionitrile+
-Bromochloromethane+
-Chloroform+
-Pentafluorobenzene+
-1,1-Dichloropropene+
-1,2-Dichloroethane+
-Isobutyl Alcohol+
-1,4-Difluorobenzene
-Trichloroethene+
-Methylcyclohexane+
-1,2-Dichloropropane
-Dibromomethane+
-Bromodichloromethane
-2-Nitropropane
-Chloroethylvinyl ether
-Epichlorohydrin
-cis-1,3-Dichloropropene
-Dimethyl Disulfide
-4-Methyl-2-Pentanone
-Toluene-d8
-Toluene
-Ethyl Methacrylate
-1,1,2-Trichloroethane
-1,3-Dichloropropane+
trans-1,3-Dichloropropene+
-n-Butyl acetate
-Dibromochloromethane+
-1,2-Dibromoethane
-Chlorobenzene-d5+
-1,1,1,2-Tetrachloroethane+
m,p-Xylenes
-o-Xylene+
-Bromoform+
-Isopropylbenzene
-4-Bromofluorobenzene+
-1,1,2,2-Tetrachloroethane+
trans-1,4-Dichloro-2-bute+
-2-Chlorotoluene
-Butyl methacrylate
-alpha-Methylstyrene
1,3,5-Trimethylbenzene+
-tert-Butylbenzene+
-sec-Butylbenzene
-1,4-Dichlorobenzene-d4+
-Benzyl Chloride
1,4-Dichlorobenzene+
-n-Butylbenzene+
-1,2-Dibromo-3-Chloropropa
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-Hexachlorobutadiene
-Naphthalene+
-1,2,3-Trichlorobenzene
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Client ID: VSTD150
Sample Info: VSTD150;VSTD150;1;9
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Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

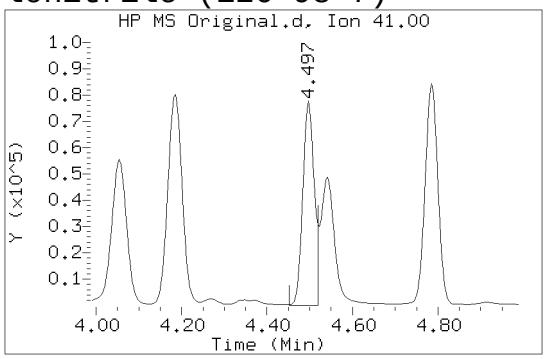
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InstruID : VOA9.i
LabSampID : VSTD150

Methacrylonitrile (126-98-7)

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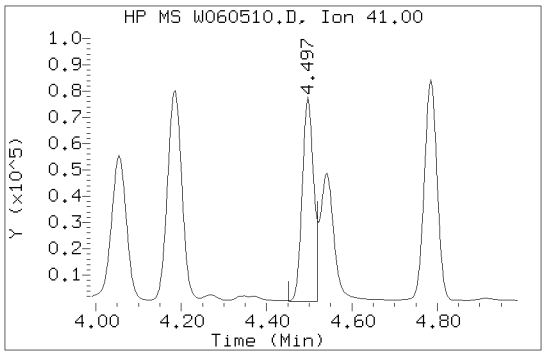
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PATEL



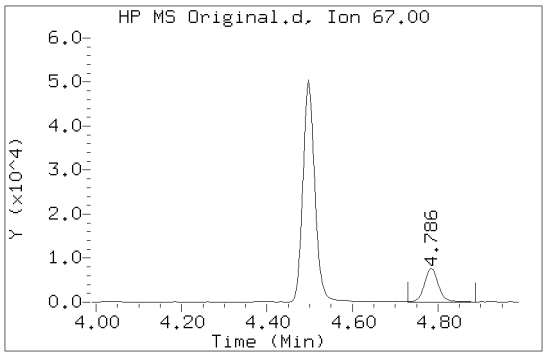
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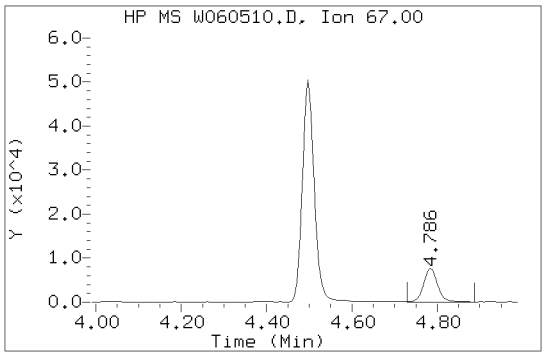
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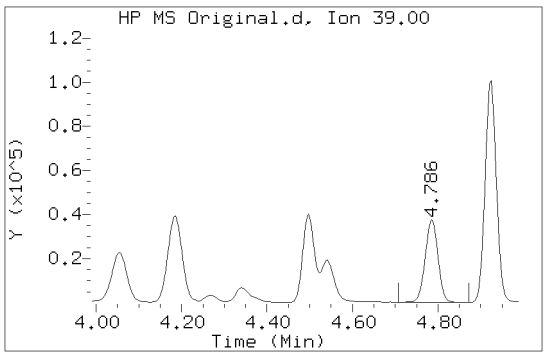
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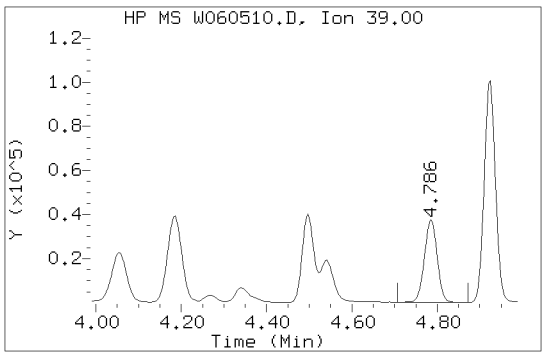
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AFTER

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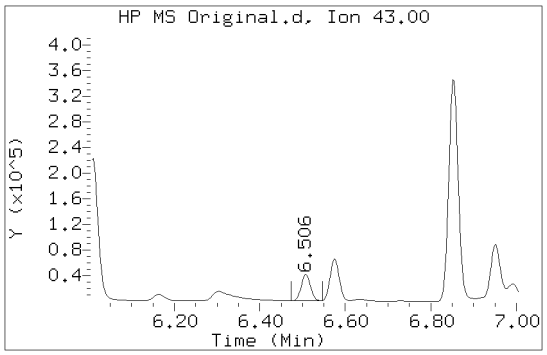


2-Nitropropane (79-46-9)

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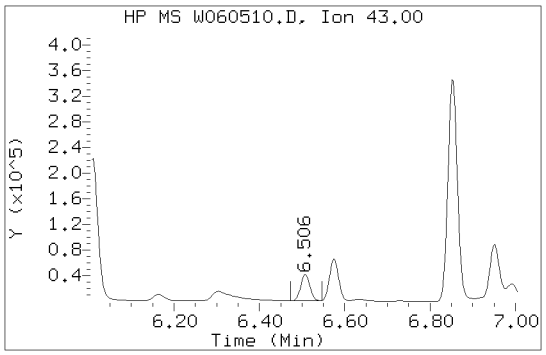
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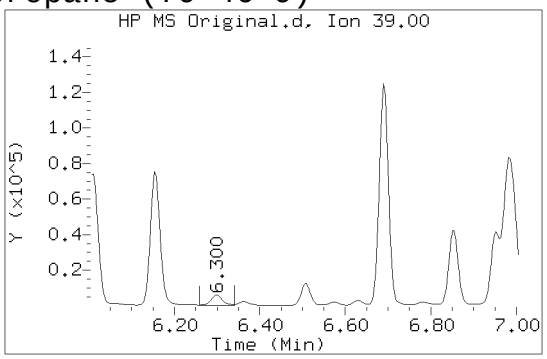
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InstruID : VOA9.i
LabSampID : VSTD150

2-Nitropropane (79-46-9)

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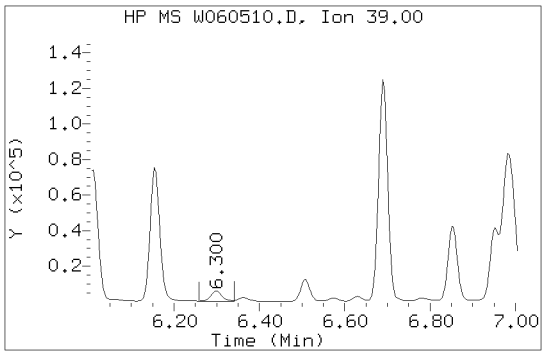
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AFTER

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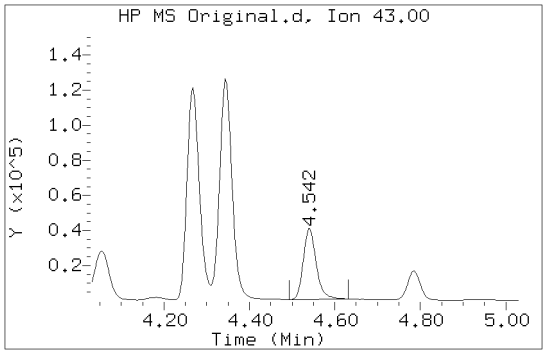


Ethyl Acetate (141-78-6)

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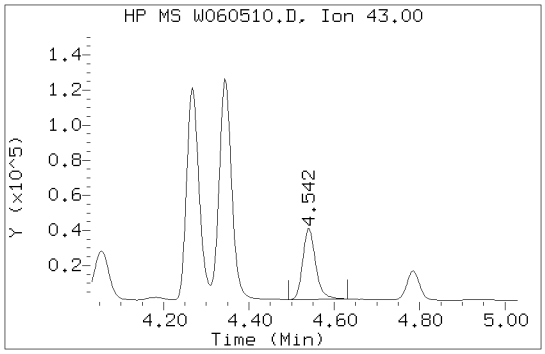
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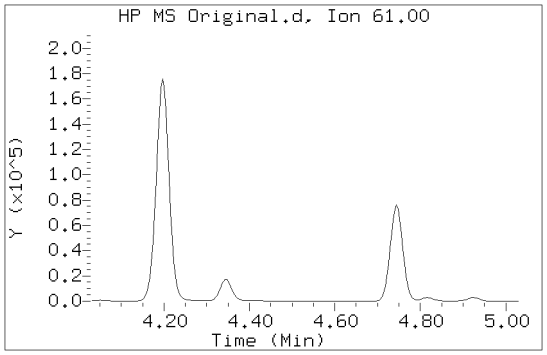
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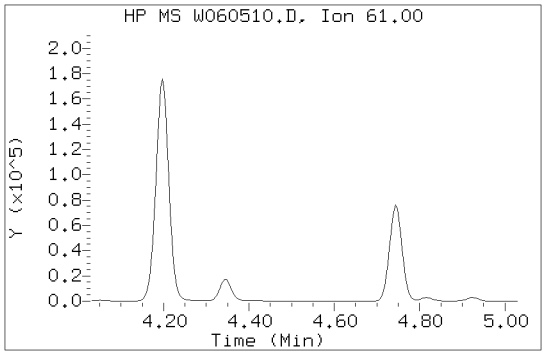
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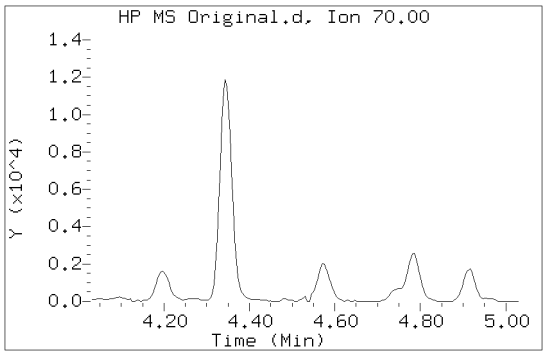
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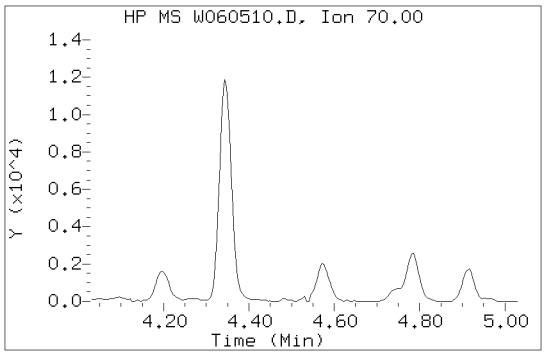
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AFTER

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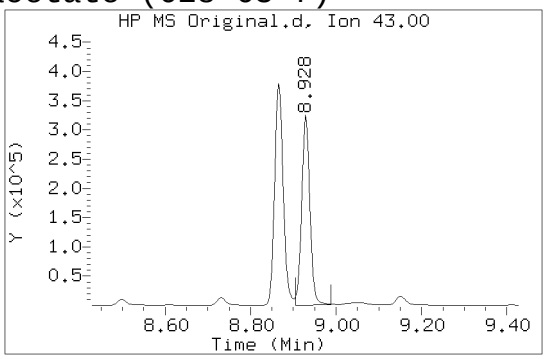
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Inj Date : 05-JUN-2024 21:50
InstruID : VOA9.i
LabSampID : VSTD150

n-Amyl acetate (628-63-7)

Reason Code:

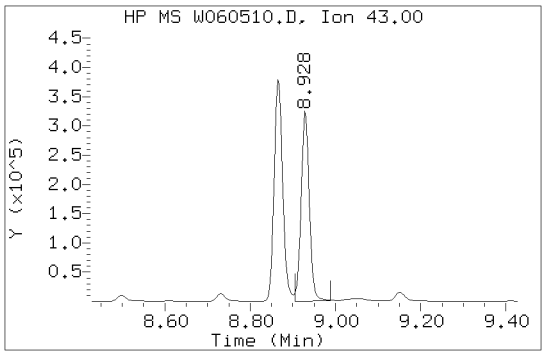
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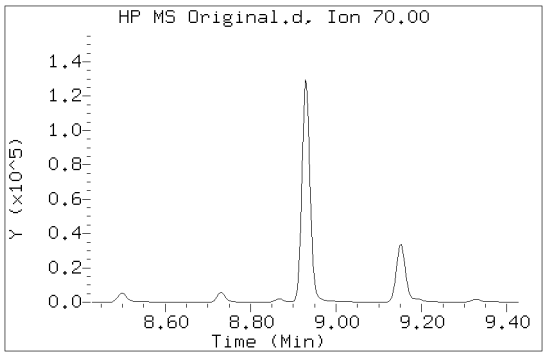
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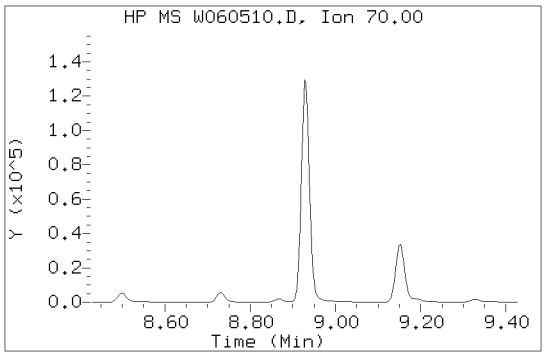
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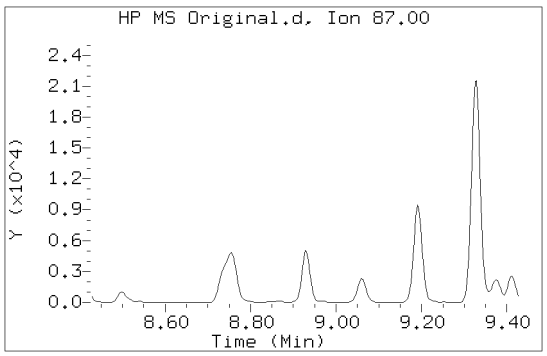
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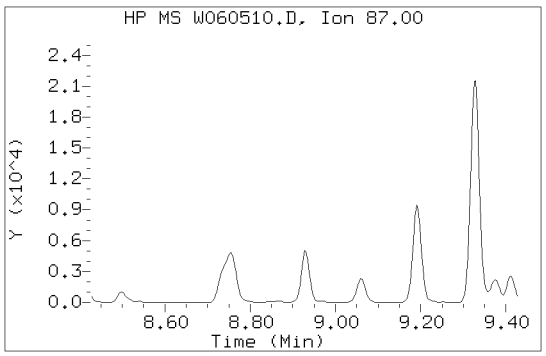
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AFTER

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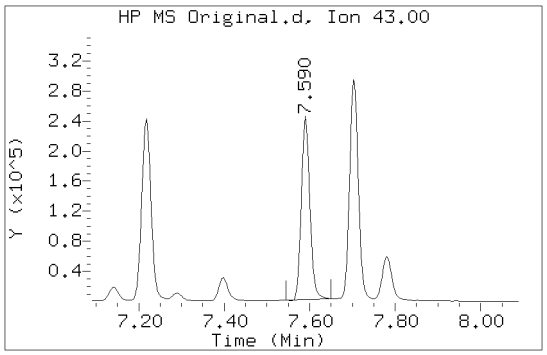


n-Butyl acetate (123-86-4)

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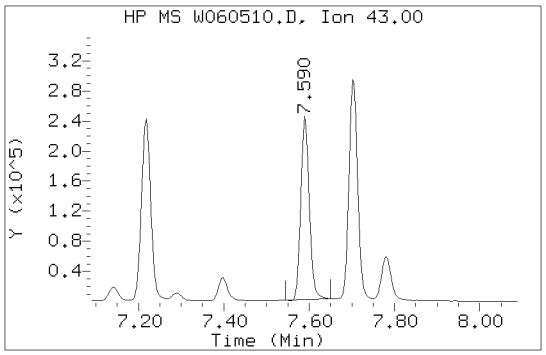
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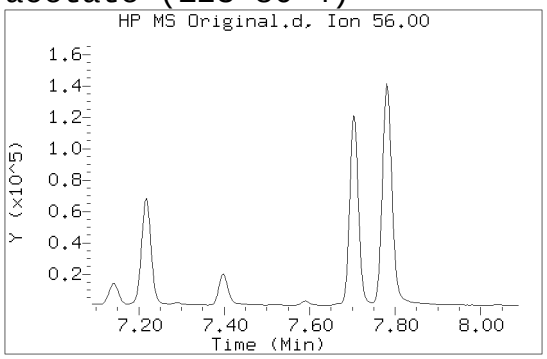
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InstruID : VOA9.i
LabSampID : VSTD150

n-Butyl acetate (123-86-4)

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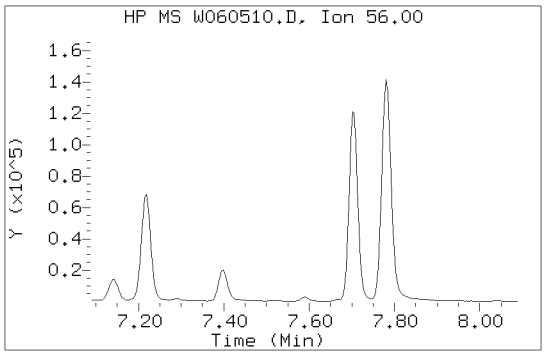
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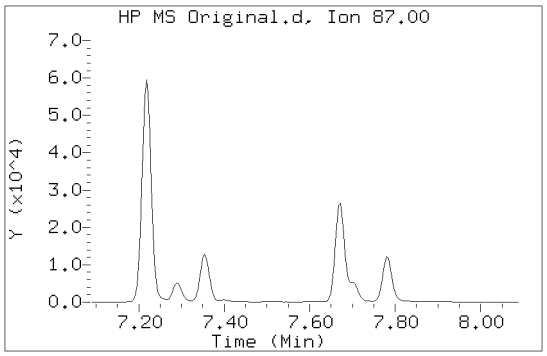
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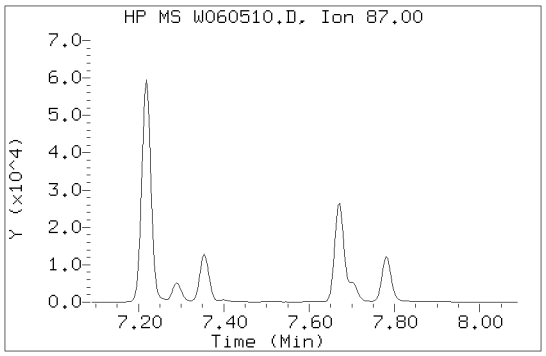
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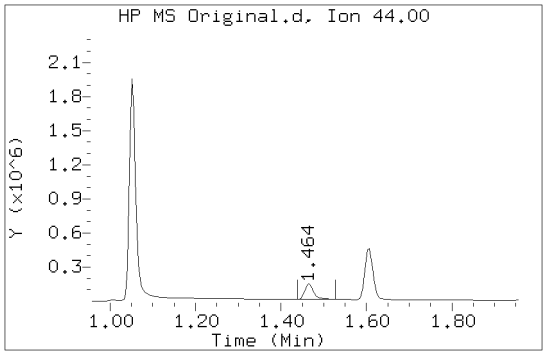


Acetaldehyde (75-07-0)

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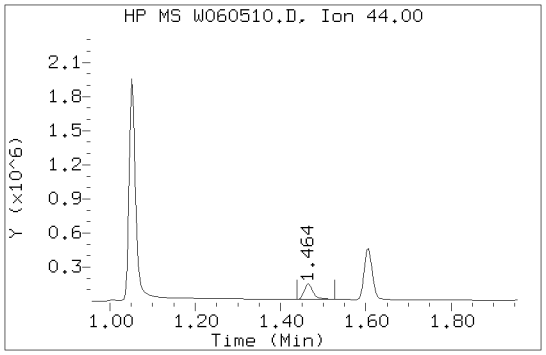
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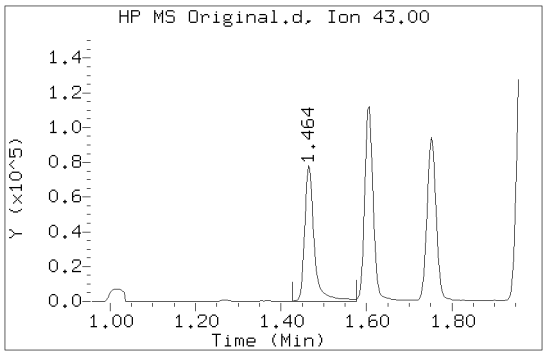
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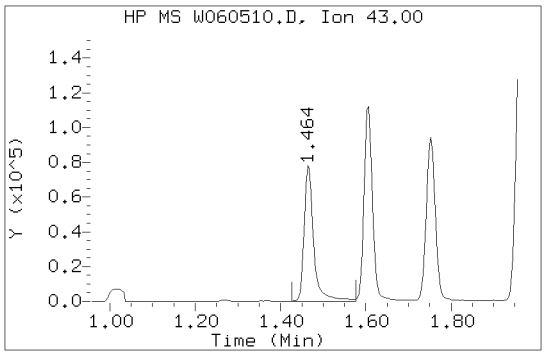
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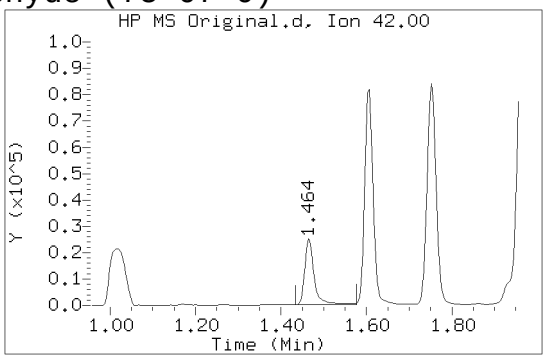
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LabSampID : VSTD150

Acetaldehyde (75-07-0)

Reason Code:

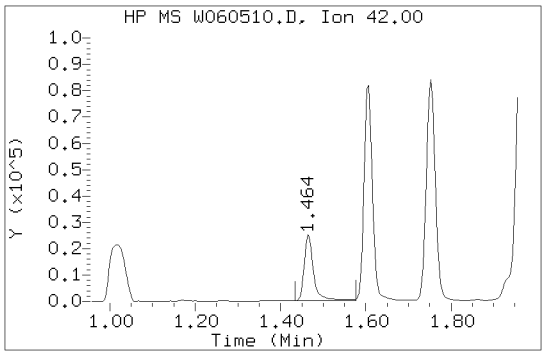
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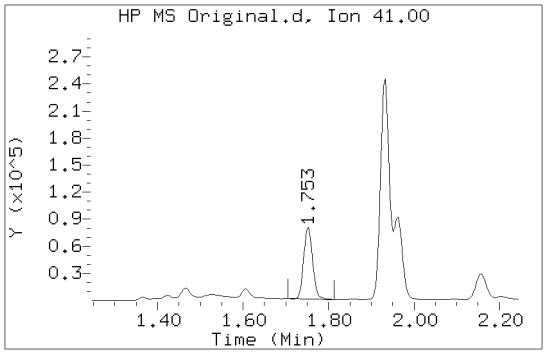


Isobutylene (115-11-7)

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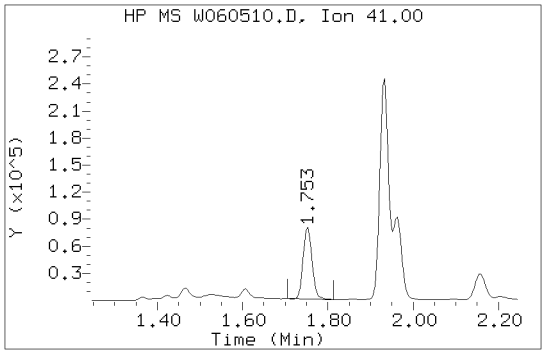
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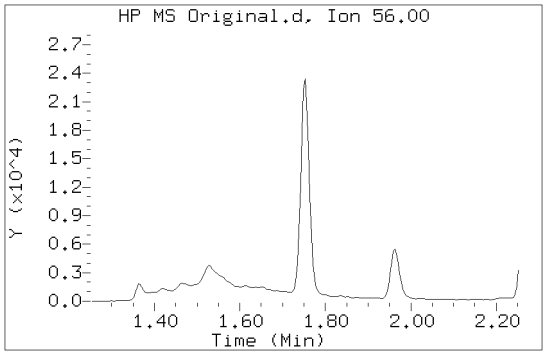
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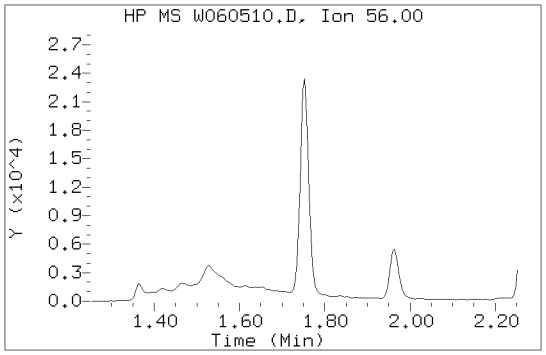
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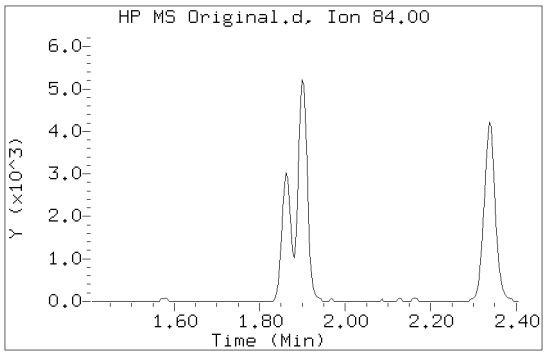
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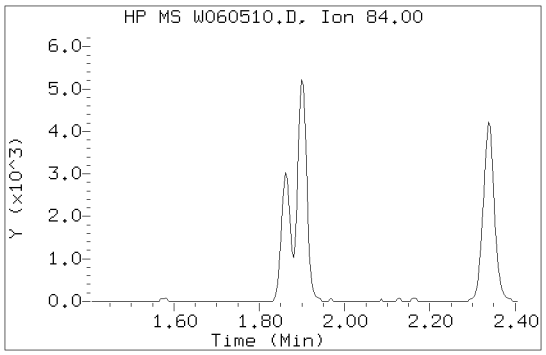
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AFTER

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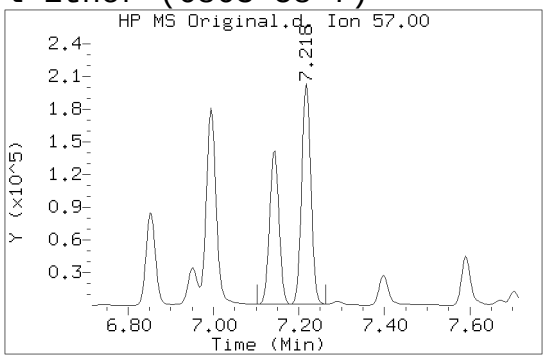
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InstruID : VOA9.i
LabSampID : VSTD150

sec-Butyl Ether (6863-58-7)

Reason Code:

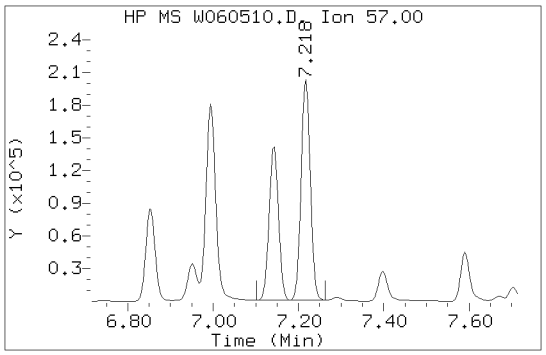
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AFTER

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Data File: \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060511.D Page 1
Report Date: 21-Jun-2024 17:12

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060511.D
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Inj Date : 05-JUN-2024 22:12
Operator : TS Inst ID: VOA9.i
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Comment   :
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Als bottle: 13 Calibration Sample, Level: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.815	4.815	(1.000)	232560	50.0000	
2	Dichlorodifluoromethane	85	1.160	1.160	(0.241)	145581	200.000	199.21
3	Chloromethane	50	1.295	1.295	(0.269)	489120	200.000	191.58
4	Propionitrile	54	4.339	4.339	(0.901)	456063	2000.00	2019.33(A)
5	Vinyl Chloride	62	1.374	1.374	(0.285)	312778	200.000	198.05
6	Bromomethane	94	1.602	1.602	(0.333)	142717	200.000	201.26(A)
7	Chloroethane	64	1.689	1.689	(0.351)	226867	200.000	199.18
8	Trichlorofluoromethane	101	1.891	1.891	(0.393)	418028	200.000	205.28(A)
9	Acrolein	56	2.262	2.262	(0.470)	35211	400.000	403.92(A)
10	Acetone	43	2.408	2.408	(0.500)	242163	400.000	403.84(A)
11	1,1-Dichloroethene	96	2.330	2.330	(0.484)	264747	200.000	198.49
12	Isobutyl Alcohol	43	5.284	5.284	(1.097)	1008682	4000.00	4078.13(A)
13	Acetonitrile	39	2.671	2.671	(0.555)	386763	2000.00	2005.54(A)
14	Allyl Chloride	41	2.671	2.671	(0.555)	874172	200.000	200.23(A)
16	Acrylonitrile	53	3.064	3.064	(0.636)	230885	400.000	399.89
17	Methylene Chloride	84	2.791	2.791	(0.580)	314968	200.000	200.28(A)
18	Methyl tert-butyl ether	73	3.079	3.079	(0.640)	796968	200.000	201.37(A)
19	Carbon Disulfide	76	2.517	2.517	(0.523)	1538405	400.000	402.43(A)
20	trans-1,2-Dichloroethene	96	3.053	3.053	(0.634)	285675	200.000	199.84
21	Vinyl Acetate	43	4.339	4.339	(0.901)	366892	400.000	402.37(A)

22 1,1-Dichloroethane	63	3.510	3.510 (0.729)	557243	200.000	200.34(A)
23 Chloroprene	53	3.608	3.608 (0.749)	483807	200.000	204.06(A)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
24	2-Butanone	43	4.264	4.264	(0.886)	343950	400.000	403.47(A)
25	Methacrylonitrile	41	4.493	4.493	(0.933)	215084	200.000	204.40(aAM)
26	2,2-Dichloropropane	77	4.181	4.181	(0.868)	419144	200.000	211.80(A)
27	cis-1,2-Dichloroethene	96	4.193	4.193	(0.871)	344361	200.000	200.14(A)
28	Chloroform	83	4.571	4.571	(0.949)	564105	200.000	184.04
29	Bromochloromethane	128	4.466	4.466	(0.928)	165957	200.000	199.91
$ 30	Dibromofluoromethane	113	4.747	4.747	(0.986)	309447	200.000	184.60
31	1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	472130	200.000	214.52(A)
32	1,1-Dichloropropene	75	4.920	4.920	(0.887)	439215	200.000	202.87(A)
33	1,2-Dichloroethane	62	5.175	5.175	(0.932)	456558	200.000	199.05
34	Carbon Tetrachloride	117	4.909	4.909	(0.885)	399737	200.000	223.75(A)
$ 35	1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	374583	200.000	183.29
* 36	1,4-Difluorobenzene	114	5.550	5.550	(1.000)	335208	50.0000	
37	Benzene	78	5.137	5.137	(0.926)	1272684	200.000	199.98
38	Trichloroethene	130	5.786	5.786	(1.043)	332345	200.000	199.08
39	Bromodichloromethane	83	6.277	6.277	(1.131)	418090	200.000	210.21(A)
40	Methyl Methacrylate	41	5.823	5.823	(1.209)	149326	200.000	202.93(A)
41	2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	229637	400.000	396.53
42	1,2-Dichloropropane	63	6.007	6.007	(1.082)	354491	200.000	199.69
43	2-Nitropropane	43	6.506	6.506	(1.351)	90419	200.000	269.83(AM)
44	Dibromomethane	93	6.116	6.116	(1.102)	204532	200.000	200.27(A)
45	4-Methyl-2-Pentanone	43	6.850	6.850	(0.837)	765349	400.000	404.26(A)
46	cis-1,3-Dichloropropene	75	6.689	6.689	(1.205)	547834	200.000	203.08(A)
* 47	Chlorobenzene-d5	117	8.181	8.181	(1.000)	305222	50.0000	
$ 48	Toluene-d8	98	6.922	6.922	(0.846)	1145138	200.000	186.82
49	Ethyl Methacrylate	69	7.289	7.289	(1.313)	485004	200.000	223.63
50	Toluene	91	6.978	6.978	(0.853)	1315628	200.000	193.07
51	trans-1,3-Dichloropropene	75	7.195	7.195	(1.297)	455455	200.000	202.45(A)
52	2-Hexanone	43	7.218	7.218	(0.882)	508784	400.000	403.99(A)
53	1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	258307	200.000	200.12(A)
54	1,3-Dichloropropane	76	7.495	7.495	(0.916)	556124	200.000	199.59
55	Dibromochloromethane	129	7.690	7.690	(0.940)	336013	200.000	202.36(A)
56	Tetrachloroethene	164	7.454	7.454	(0.911)	264670	200.000	199.83
57	1,2-Dibromoethane	107	7.784	7.784	(0.951)	310250	200.000	201.04(A)
58	1-Chlorohexane	55	8.196	8.196	(1.477)	282886	200.000	200.60(A)
59	Chlorobenzene	112	8.207	8.207	(1.003)	847312	200.000	199.91
60	1,1,1,2-Tetrachloroethane	131	8.282	8.282	(1.012)	319946	200.000	216.93(A)
61	Ethylbenzene	106	8.305	8.305	(1.015)	445587	200.000	204.77(A)
62	m,p-Xylenes	106	8.406	8.406	(1.027)	1121517	400.000	414.75(A)
63	o-Xylene	106	8.744	8.744	(1.069)	544401	200.000	208.00(A)
64	Styrene	104	8.759	8.759	(1.071)	915941	200.000	216.39(A)
66	Bromoform	173	8.916	8.916	(1.090)	223996	200.000	205.17(A)
67	Isopropylbenzene	105	9.062	9.062	(1.108)	1367969	200.000	220.07(A)
68	1,1,2,2-Tetrachloroethane	83	9.328	9.328	(0.917)	431182	200.000	200.33(A)
$ 69	4-Bromofluorobenzene	95	9.190	9.190	(1.123)	423545	200.000	190.99
* 70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	162721	50.0000	
71	1,2,3-Trichloropropane	75	9.362	9.362	(0.921)	460553	200.000	203.65(A)
72	trans-1,4-Dichloro-2-butene	53	9.373	9.373	(1.146)	93721	200.000	195.65
73	n-Propylbenzene	91	9.411	9.411	(0.926)	1565829	200.000	211.67(A)
74	Bromobenzene	156	9.317	9.317	(0.916)	372976	200.000	201.07(A)
75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	1108013	200.000	227.47(A)
76	2-Chlorotoluene	91	9.482	9.482	(0.933)	942887	200.000	196.56

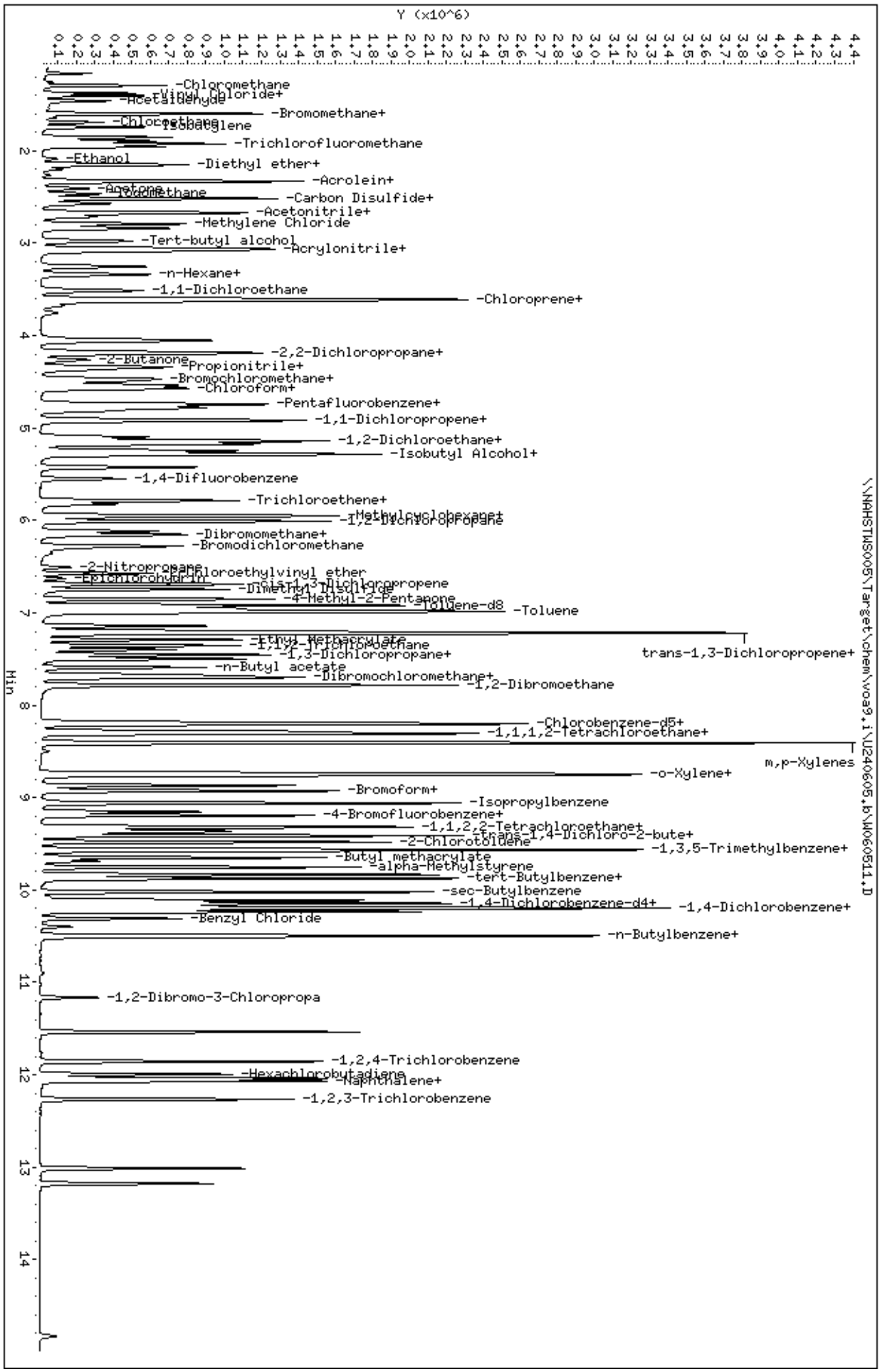
77	4-Chlorotoluene	91	9.572	9.572 (0.941)	1102750	200.000	199.62
78	tert-Butylbenzene	119	9.834	9.834 (0.967)	949398	200.000	213.30(A)

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060511.D Page 3
Report Date: 21-Jun-2024 17:12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	1104387	200.000	219.20(A)
81	sec-Butylbenzene	105	10.022	10.022	(0.986)	1311665	200.000	222.90(A)
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	1150930	200.000	230.26(A)
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	643564	200.000	188.03
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	675420	200.000	199.65
86	Benzyl Chloride	91	10.311	10.311	(1.260)	479644	200.000	198.53
87	n-Butylbenzene	91	10.490	10.490	(1.032)	1027127	200.000	199.73
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	640427	200.000	199.53
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	63420	200.000	198.79
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	444784	200.000	200.89(A)
91	Hexachlorobutadiene	225	11.997	11.997	(1.180)	193760	200.000	208.03(A)
92	Naphthalene	128	12.065	12.065	(1.187)	1062354	200.000	201.17(A)
93	1,2,3-Trichlorobenzene	180	12.267	12.267	(1.206)	403090	200.000	214.97(A)
146	Methyl acetate	43	2.712	2.712	(0.563)	326381	200.000	198.79
138	Freon TF	101	2.330	2.330	(0.484)	242521	200.000	212.33(A)
141	Cyclohexane	56	4.781	4.781	(0.993)	417740	200.000	199.60
142	Tetrahydrofuran	42	4.541	4.541	(0.943)	118208	400.000	397.01
147	Methylcyclohexane	55	5.943	5.943	(1.071)	832663	200.000	215.93(A)
135	1,4-Dioxane	88	6.164	6.164	(1.280)	70775	4000.00	3985.02
132	n-Butanol	56	5.823	5.823	(1.209)	214255	4000.00	4092.65(A)
136	n-Hexane	57	3.338	3.338	(0.693)	291830	200.000	197.27
139	Diethyl ether	59	2.142	2.142	(0.445)	230475	200.000	200.79(A)
148	Tert-butyl alcohol	59	2.974	2.974	(0.618)	581208	4000.00	4048.54(A)
149	Isopropyl alcohol	45	2.569	2.569	(0.534)	464562	4000.00	4031.79(A)
156	Diisopropyl ether	45	3.619	3.619	(0.752)	1061760	200.000	201.43(A)
162	Butyl acrylate	55	8.729	8.729	(1.067)	724445	200.000	240.43(A)
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	1582575	200.000	201.58(A)
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	1038910	200.000	200.30(A)
167	Ethanol	45	2.086	2.086	(0.433)	85510	4000.00	4185.56(A)
172	tert-Butyl formate	59	5.246	5.246	(1.090)	628535	400.000	452.52(A)
151	4-Methyl-2-pentanol	45	7.218	7.218	(1.301)	2197622	4000.00	4079.36(A)
140	1,3-Butadiene	54	1.400	1.400	(0.291)	155339	200.000	199.28
182	Epichlorohydrin	57	6.629	6.629	(1.195)	92526	800.000	740.88
M 94	1,2-Dichloroethylene (total)	96				630036	400.000	(a)
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	469291	200.000	236.86(A)
130	Ethyl Acetate	43	4.538	4.538	(0.942)	119573	200.000	199.48(T)
131	Methyl Acrylate	55	4.369	4.369	(0.907)	385399	200.000	201.64(A)
189	n-Butyl acetate	43	7.589	7.589	(0.928)	516846	200.000	226.41(TA)
134	Cyclohexanone	55	9.152	9.152	(0.900)	325494	4000.00	3994.44
185	Isoprene	39	2.153	2.153	(0.447)	78886	200.000	202.45(A)
188	Isopropyl acetate	43	5.284	5.284	(0.952)	1008682	200.000	199.92
150	Allyl alcohol	57	3.338	3.338	(0.693)	291830	4000.00	3945.40
194	Acetaldehyde	44	1.460	1.460	(0.303)	285245	800.000	816.35(AM)
202	Isobutylene	41	1.741	1.741	(0.362)	158283	200.000	208.11(AM)
133	Ethyl Acrylate	55	5.943	5.943	(1.234)	832663	200.000	211.95(A)
163	Butyl methacrylate	41	9.647	9.647	(0.949)	396264	200.000	199.55
159	Propylene oxide	43	2.198	2.198	(0.457)	50174	400.000	384.59(A)
178	Ethylene oxide	44	1.599	1.599	(0.332)	796045	400.000	399.04
203	2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	482819	200.000	175.12
204	Tetrahydrothiophene	60	7.668	7.668	(0.937)	303778	200.000	209.95(A)
205	sec-Butyl Ether	57	7.218	7.218	(0.882)	745434	200.000	199.44(AM)
187	n-Amyl acetate	43	8.927	8.927	(1.091)	634119	200.000	223.13(AM)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060511.D
Date : 05-JUN-2024 22:12
Client ID: VSTD200
Sample Info: VSTD200;VSTD200;1;10
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

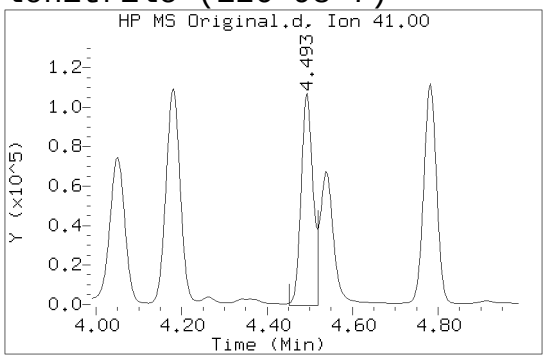
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060511.D
Inj Date : 05-JUN-2024 22:12
InstruID : VOA9.i
LabSampID : VSTD200

Methacrylonitrile (126-98-7)

Reason Code:

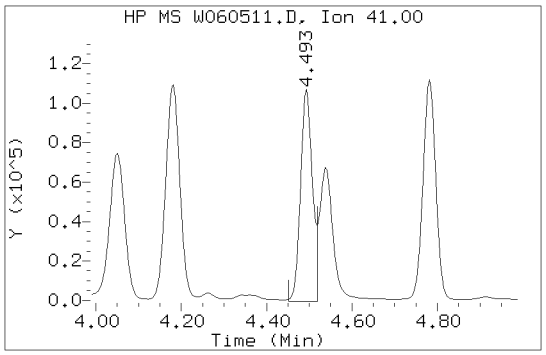
BEFORE

MASS
41
AREA
215084
HEIGHT
107787
21-Jun-2024
17:11
RUCHA
PATEL



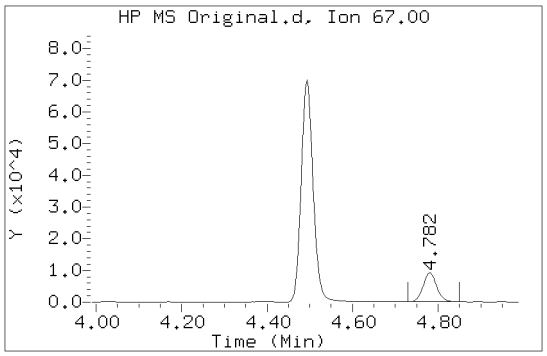
AFTER

MASS
41
AREA
215084
HEIGHT
107787
21-Jun-2024
17:11
RUCHA
PATEL



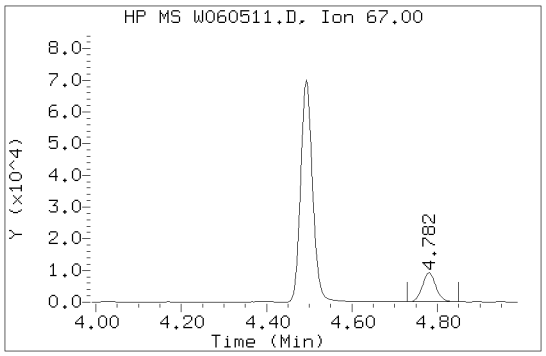
BEFORE

MASS
67
AREA
20135
HEIGHT
9126
21-Jun-2024
17:11
RUCHA
PATEL



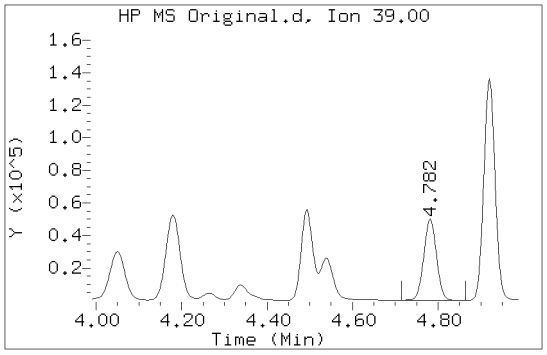
AFTER

MASS
67
AREA
20135
HEIGHT
9126
21-Jun-2024
17:11
RUCHA
PATEL



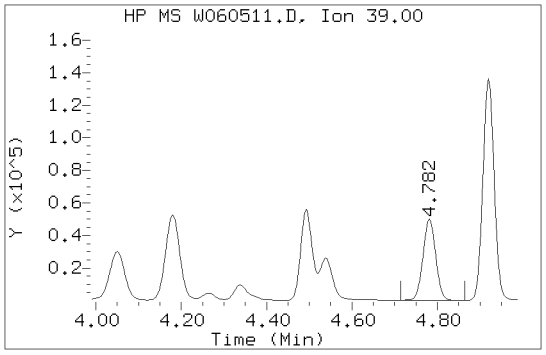
BEFORE

MASS
39
AREA
103291
HEIGHT
50039
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
39
AREA
103291
HEIGHT
50039
21-Jun-2024
17:11
RUCHA
PATEL

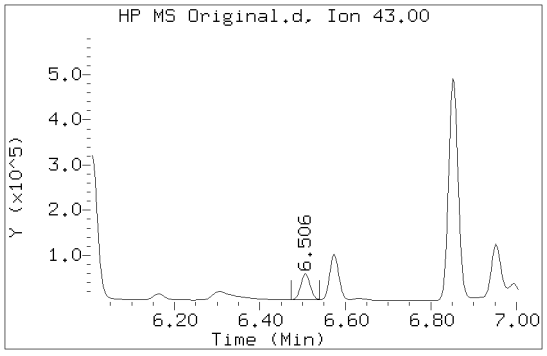


2-Nitropropane (79-46-9)

Reason Code:

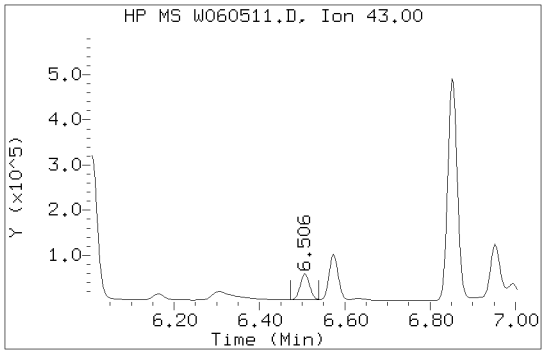
BEFORE

MASS
43
AREA
90419
HEIGHT
58439
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
43
AREA
90419
HEIGHT
58439
21-Jun-2024
17:11
RUCHA
PATEL



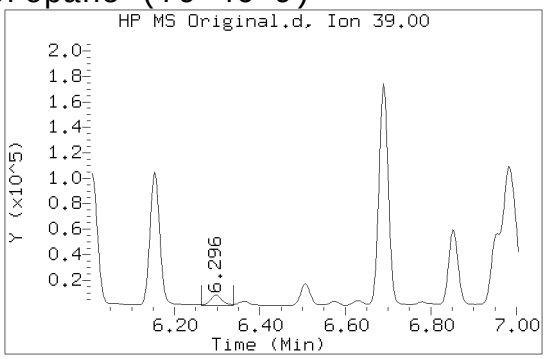
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060511.D
Inj Date : 05-JUN-2024 22:12
InstruID : VOA9.i
LabSampID : VSTD200

2-Nitropropane (79-46-9)

Reason Code:

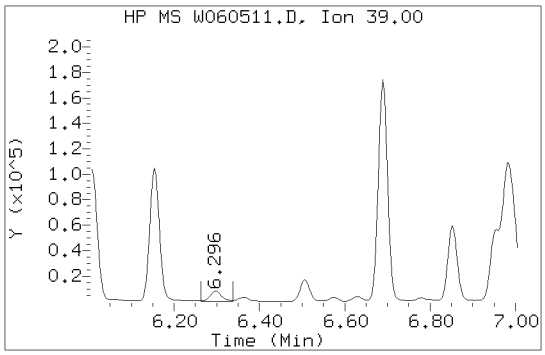
BEFORE

MASS
39
AREA
14579
HEIGHT
7886
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
39
AREA
14579
HEIGHT
7886
21-Jun-2024
17:11
RUCHA
PATEL

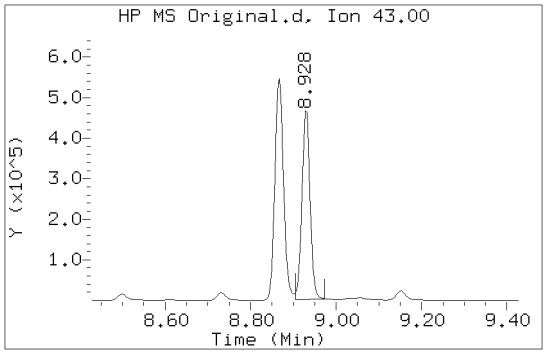


n-Amyl acetate (628-63-7)

Reason Code:

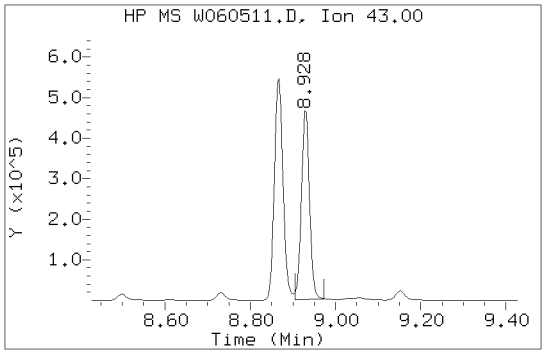
BEFORE

MASS
43
AREA
634119
HEIGHT
465302
21-Jun-2024
17:11
RUCHA
PATEL



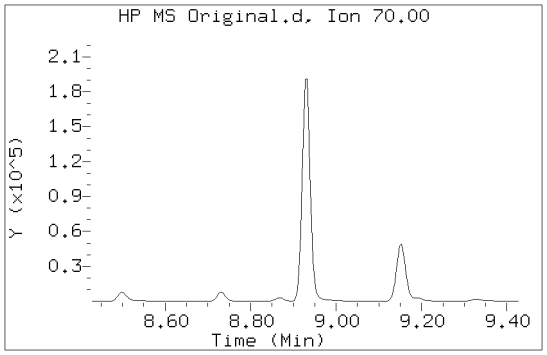
AFTER

MASS
43
AREA
634119
HEIGHT
465302
21-Jun-2024
17:11
RUCHA
PATEL



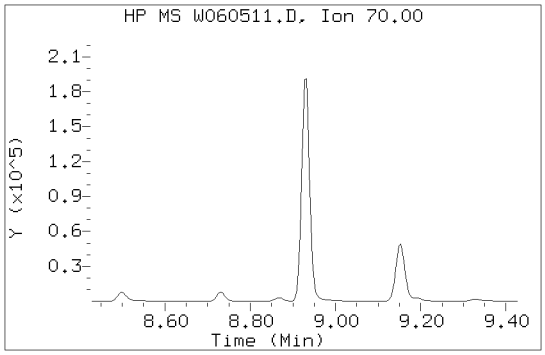
BEFORE

MASS
70
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



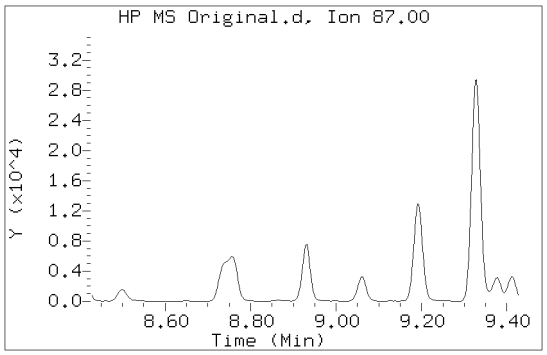
AFTER

MASS
70
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



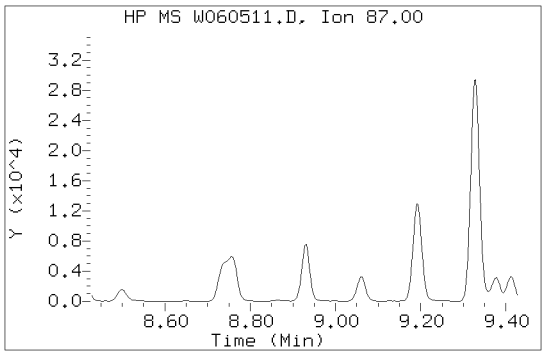
BEFORE

MASS
87
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
87
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



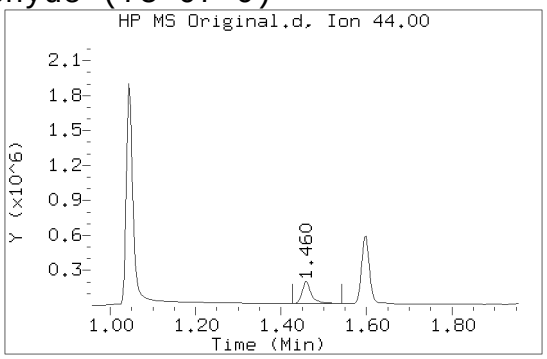
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060511.D
Inj Date : 05-JUN-2024 22:12
InstruID : VOA9.i
LabSampID : VSTD200

Acetaldehyde (75-07-0)

Reason Code:

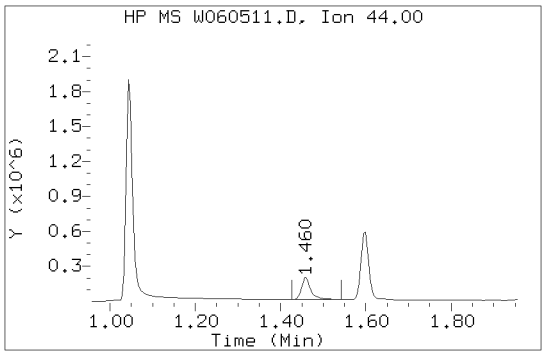
BEFORE

MASS
44
AREA
285245
HEIGHT
188568
21-Jun-2024
17:11
RUCHA
PATEL



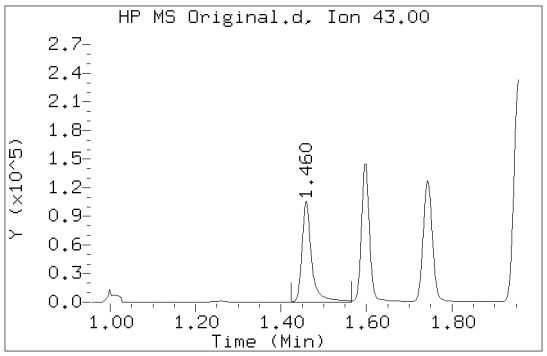
AFTER

MASS
44
AREA
285245
HEIGHT
188568
21-Jun-2024
17:11
RUCHA
PATEL



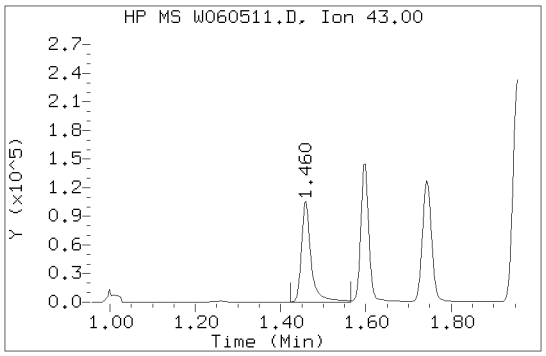
BEFORE

MASS
43
AREA
172294
HEIGHT
105936
21-Jun-2024
17:11
RUCHA
PATEL



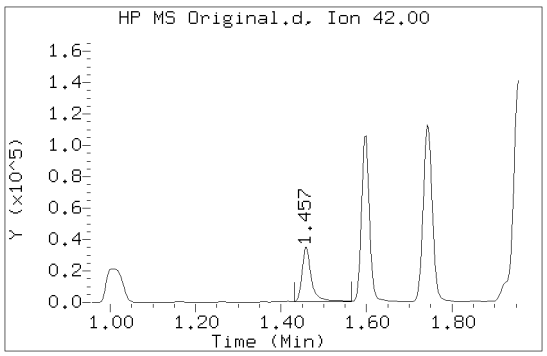
AFTER

MASS
43
AREA
172294
HEIGHT
105936
21-Jun-2024
17:11
RUCHA
PATEL



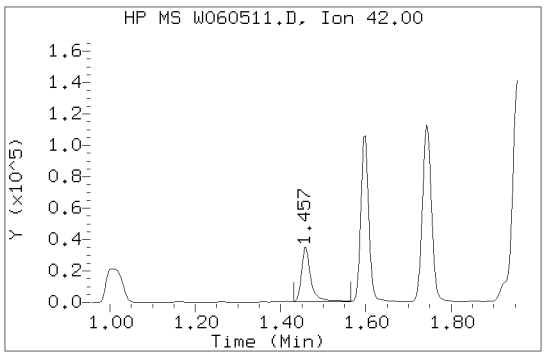
BEFORE

MASS
42
AREA
54743
HEIGHT
34621
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
42
AREA
54743
HEIGHT
34621
21-Jun-2024
17:11
RUCHA
PATEL

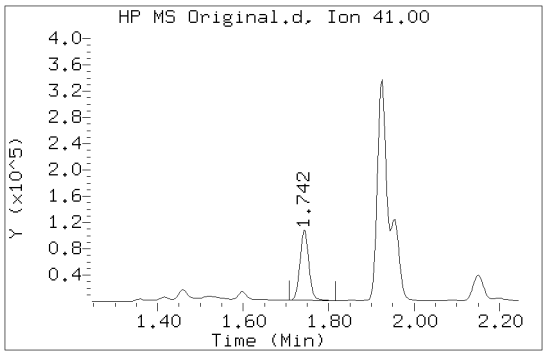


Isobutylene (115-11-7)

Reason Code:

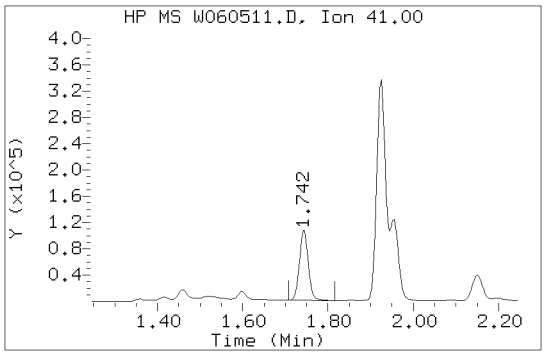
BEFORE

MASS
41
AREA
158283
HEIGHT
106373
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
41
AREA
158283
HEIGHT
106373
21-Jun-2024
17:11
RUCHA
PATEL



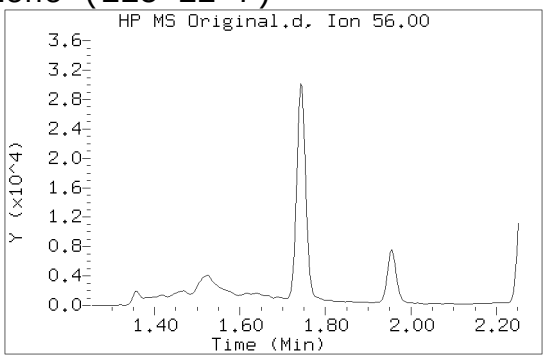
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060511.D
Inj Date : 05-JUN-2024 22:12
InstruID : VOA9.i
LabSampID : VSTD200

Isobutylene (115-11-7)

Reason Code:

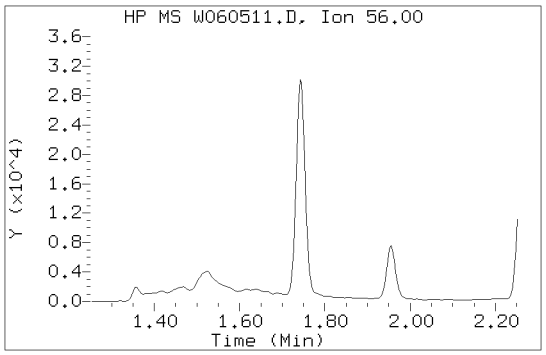
BEFORE

MASS
56
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



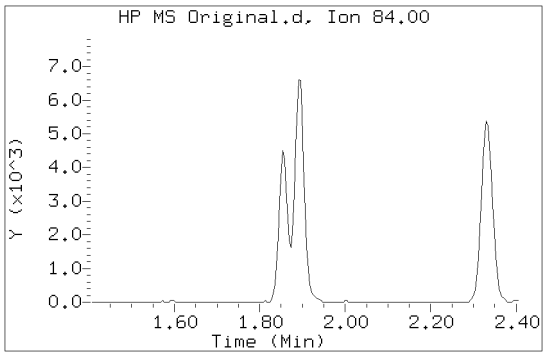
AFTER

MASS
56
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



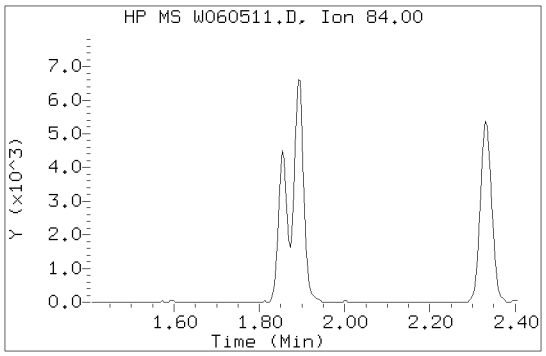
BEFORE

MASS
84
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
84
AREA
0
HEIGHT
0
21-Jun-2024
17:11
RUCHA
PATEL

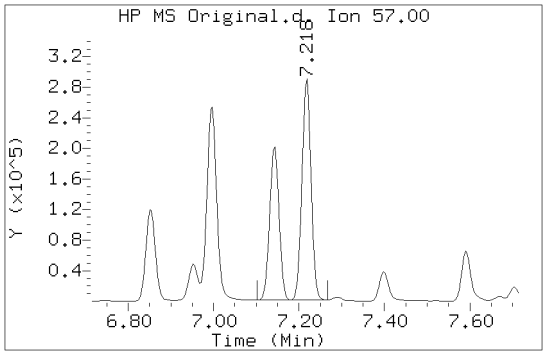


sec-Butyl Ether (6863-58-7)

Reason Code:

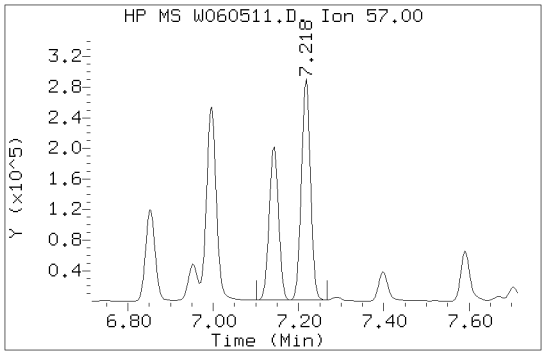
BEFORE

MASS
57
AREA
745434
HEIGHT
289034
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
57
AREA
745434
HEIGHT
289034
21-Jun-2024
17:11
RUCHA
PATEL



Data File: \\nahstws005\Target\chem\voa9.i\U240605.b\W060513.D Page 1
Report Date: 06-Jun-2024 09:23

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240605.b\W060513.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 05-JUN-2024 22:55
Operator : TS Inst ID: VOA9.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V9;WATER;0;1;
Comment :
Method : \\nahstws005\Target\chem\voa9.i\U240605.b\bfb.m
Meth Date : 27-Jan-2023 08:08 apoluri Quant Type: ISTD
Cal Date : 30-MAR-2018 18:09 Cal File: U033003.d
Als bottle: 15 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAHSTW7066

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	2.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/L)	(ug/l)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
9.194	9.180	(0.000)	95	63184			0.00- 100.00	100.00
9.194	9.180	(0.000)	50	12615			15.00- 40.00	19.97
9.194	9.180	(0.000)	75	32128			30.00- 60.00	50.85
9.194	9.180	(0.000)	96	4258			5.00- 9.00	6.74
9.194	9.180	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
9.194	9.180	(0.000)	174	52920			50.00- 0.00	83.76
9.194	9.180	(0.000)	175	4655			5.00- 9.00	8.80
9.194	9.180	(0.000)	176	50952			95.00- 101.00	96.28
9.194	9.180	(0.000)	177	3663			5.00- 9.00	7.19

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.97
75	30.00 - 60.00% of mass 95	50.85
96	5.00 - 9.00% of mass 95	6.74
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	83.76
175	5.00 - 9.00% of mass 174	7.37 (8.80)
176	95.00 - 101.00% of mass 174	80.64 (96.28)
177	5.00 - 9.00% of mass 176	5.80 (7.19)

Data File: W060513.D
Spectrum: Scan 2293 (9.19)
Location of Maximum: 95.00
Number of points: 91

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	613	62.00	3058	92.00	1798	136.80	122
37.00	3534	63.00	2210	93.00	2781	138.90	57
38.00	3181	63.90	282	94.00	7778	140.90	693
39.00	1197	65.00	230	95.00	63184	142.00	67
39.90	184	67.20	227	96.00	4258	142.80	512
43.00	81	68.00	6581	97.00	143	144.90	81
44.00	628	69.00	6824	103.00	56	145.90	123
45.00	664	70.00	481	103.80	329	147.80	116
46.20	81	72.10	364	104.90	116	149.90	79
47.00	1040	73.00	3062	105.90	231	153.00	63
47.90	457	74.00	10791	106.90	57	154.30	54
49.00	2550	75.00	32128	110.70	60	154.80	150
50.00	12615	76.00	2866	111.90	51	156.70	122
51.00	4062	77.00	457	114.80	74	158.80	85
52.10	206	78.00	285	115.80	202	161.00	96
52.80	56	78.90	1689	116.90	453	171.00	93
55.00	180	79.90	590	117.90	209	171.90	382
56.00	991	80.90	1846	118.80	358	173.90	52920
57.00	1852	81.90	342	127.80	209	175.00	4655
57.90	157	85.80	95	128.90	125	175.90	50952
58.70	51	86.90	3018	129.90	233	176.90	3663
60.00	703	87.90	3017	130.90	107	177.90	87
61.00	3174	91.00	287	134.90	130		

Data File: \\nahstws005\Target\chem\voa9.i\U240605.b\W060513.D Page 1

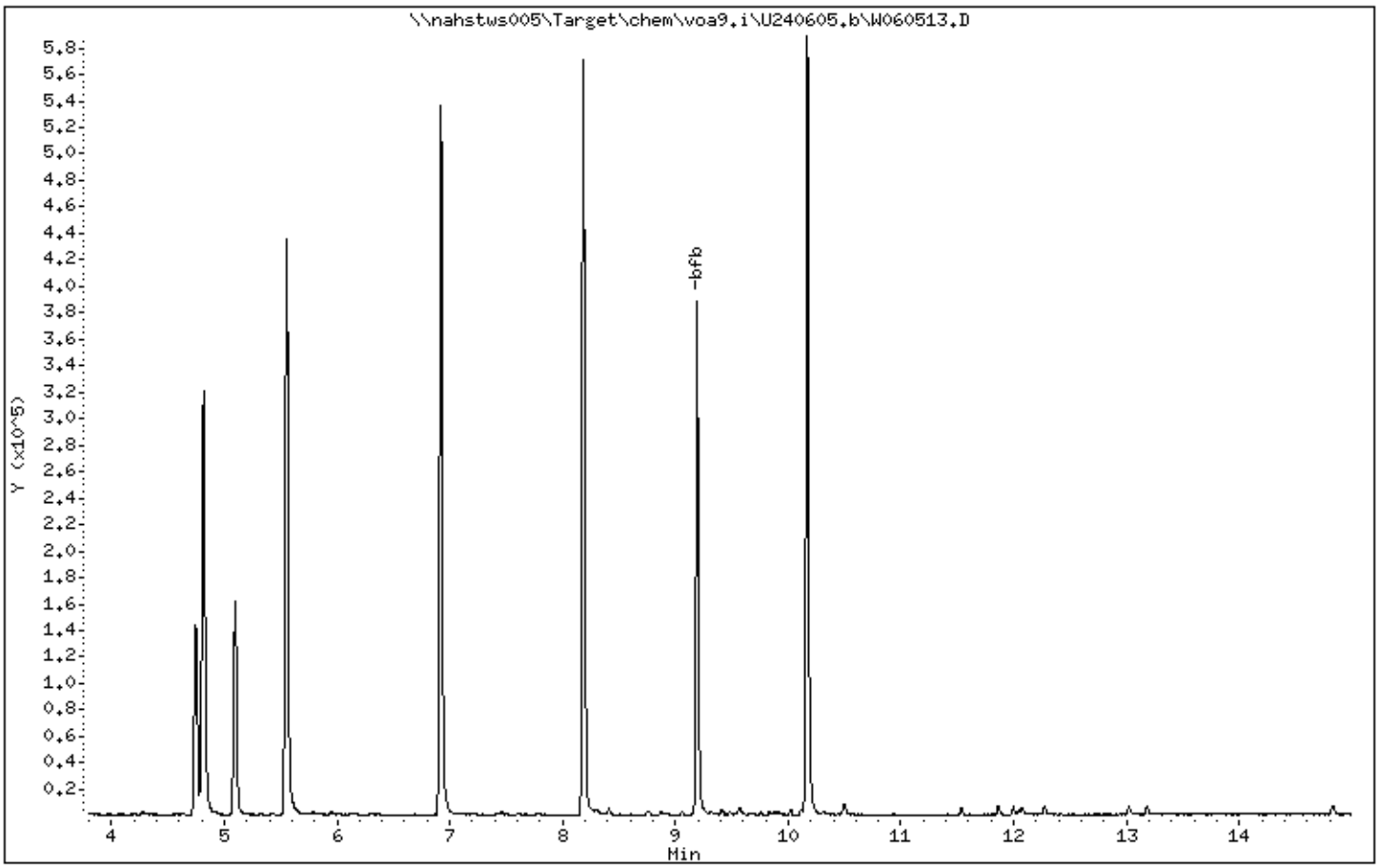
Date : 05-JUN-2024 22:55

Client ID: BFB Instrument: VOA9.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: TS

Column phase: DB624 Column diameter: 0.25



Data File: \\nahstws005\Target\chem\voa9.i\U240605.b\W060513.D Page 2

Date : 05-JUN-2024 22:55

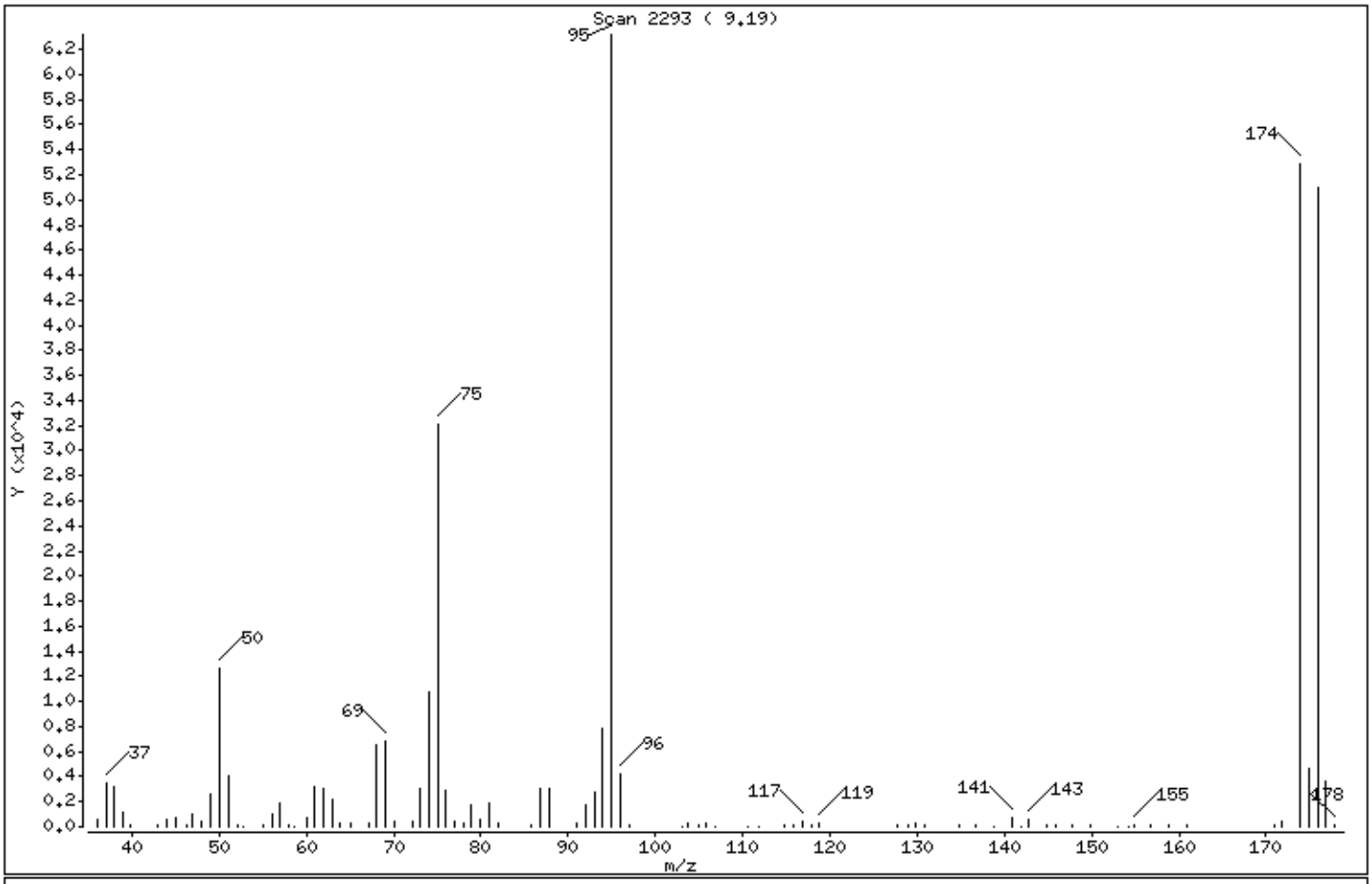
Client ID: BFB Instrument: VOA9.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: TS

Column phase: DB624 Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.97
75	30.00 - 60.00% of mass 95	50.85
96	5.00 - 9.00% of mass 95	6.74
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	83.76
175	5.00 - 9.00% of mass 174	7.37 (8.80)
176	95.00 - 101.00% of mass 174	80.64 (96.28)
177	5.00 - 9.00% of mass 176	5.80 (7.19)

Data File: \\nahstws005\Target\chem\voa9.i\U240605.b\W060513.D Page 3

Date : 05-JUN-2024 22:55

Client ID: BFB Instrument: VOA9.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: TS

Column phase: DB624 Column diameter: 0.25

Data File: W060513.D
Spectrum: Scan 2293 (9.19)
Location of Maximum: 95.00
Number of points: 91

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	613	62.00	3058	92.00	1798	136.80	122
37.00	3534	63.00	2210	93.00	2781	138.90	57
38.00	3181	63.90	282	94.00	7778	140.90	693
39.00	1197	65.00	230	95.00	63184	142.00	67
39.90	184	67.20	227	96.00	4258	142.80	512
43.00	81	68.00	6581	97.00	143	144.90	81
44.00	628	69.00	6824	103.00	56	145.90	123
45.00	664	70.00	481	103.80	329	147.80	116
46.20	81	72.10	364	104.90	116	149.90	79
47.00	1040	73.00	3062	105.90	231	153.00	63
47.90	457	74.00	10791	106.90	57	154.30	54
49.00	2550	75.00	32128	110.70	60	154.80	150
50.00	12615	76.00	2866	111.90	51	156.70	122
51.00	4062	77.00	457	114.80	74	158.80	85
52.10	206	78.00	285	115.80	202	161.00	96
52.80	56	78.90	1689	116.90	453	171.00	93
55.00	180	79.90	590	117.90	209	171.90	382
56.00	991	80.90	1846	118.80	358	173.90	52920
57.00	1852	81.90	342	127.80	209	175.00	4655
57.90	157	85.80	95	128.90	125	175.90	50952
58.70	51	86.90	3018	129.90	233	176.90	3663
60.00	703	87.90	3017	130.90	107	177.90	87
61.00	3174	91.00	287	134.90	130		

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060514A.D Page 1
Report Date: 21-Jun-2024 17:35

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060514A.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 05-JUN-2024 23:38
Operator : TS Inst ID: VOA9.i
Smp Info : VSTD050;VSTD050;2;;ICV
Misc Info : V9;WATER;0;1;
Comment :
Method : \\nahstws005\Target\chem\voa9.i\U240605.b\8260C.m
Meth Date : 21-Jun-2024 17:31 r.patel Quant Type: ISTD
Cal Date : 05-JUN-2024 22:12 Cal File: W060511.D
Als bottle: 16 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.811	4.811	(1.000)	228419	50.0000	
2 Dichlorodifluoromethane	85	1.160	1.160	(0.241)	31626	44.6835	44.68
3 Chloromethane	50	1.291	1.291	(0.268)	118211	44.4405	44.44
4 Propionitrile	54	4.332	4.332	(0.900)	107451	485.496	485.49
5 Vinyl Chloride	62	1.370	1.370	(0.285)	69716	44.9462	44.94
6 Bromomethane	94	1.610	1.610	(0.335)	37936	54.0625	54.06
7 Chloroethane	64	1.693	1.693	(0.352)	53509	47.6944	47.69
8 Trichlorofluoromethane	101	1.887	1.887	(0.392)	92857	46.4269	46.42
9 Acrolein	56	2.259	2.259	(0.469)	8701	116.991	116.99
10 Acetone	43	2.401	2.401	(0.499)	65359	107.861	107.86
11 1,1-Dichloroethene	96	2.326	2.326	(0.483)	58978	45.0200	45.02
12 Isobutyl Alcohol	43	5.280	5.280	(1.097)	229371	944.166	944.16
13 Acetonitrile	39	2.663	2.663	(0.554)	85247	451.430	451.42
14 Allyl Chloride	41	2.667	2.667	(0.554)	198055	46.2451	46.24
15 Iodomethane	142	2.461	2.461	(0.512)	55906	159.565	159.56(R)
16 Acrylonitrile	53	3.061	3.061	(0.636)	54820	95.5499	95.54
17 Methylene Chloride	84	2.787	2.787	(0.579)	74947	47.4672	47.46
18 Methyl tert-butyl ether	73	3.076	3.076	(0.639)	188658	48.4963	48.49
19 Carbon Disulfide	76	2.513	2.513	(0.522)	336625	89.6546	89.65
20 trans-1,2-Dichloroethene	96	3.053	3.053	(0.635)	65537	46.7348	46.73

21 Vinyl Acetate	43	4.335	4.335 (0.901)	85411	95.7131	95.71
22 1,1-Dichloroethane	63	3.507	3.507 (0.729)	128585	46.8234	46.82

			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)
	23	Chloroprene	53	3.604	3.604	(0.749)	106285	45.6419	45.64
	24	2-Butanone	43	4.260	4.260	(0.885)	83330	98.9454	98.94
	25	Methacrylonitrile	41	4.489	4.489	(0.933)	45265	44.9519	44.95(a)
	26	2,2-Dichloropropane	77	4.178	4.178	(0.868)	84857	43.6589	43.65
	27	cis-1,2-Dichloroethene	96	4.189	4.189	(0.871)	79256	47.0292	47.02
	28	Chloroform	83	4.568	4.568	(0.949)	131157	43.5668	43.56
	29	Bromochloromethane	128	4.463	4.463	(0.928)	40306	49.0446	49.04
$	30	Dibromofluoromethane	113	4.744	4.744	(0.986)	72535	44.0558	44.05
	31	1,1,1-Trichloroethane	97	4.736	4.736	(0.984)	101870	47.1275	47.12
	32	1,1-Dichloropropene	75	4.916	4.916	(0.886)	96086	44.5131	44.51
	33	1,2-Dichloroethane	62	5.171	5.171	(0.932)	110560	47.8501	47.85
	34	Carbon Tetrachloride	117	4.905	4.905	(0.884)	82548	46.3438	46.34
$	35	1,2-Dichloroethane-d4	65	5.093	5.093	(1.058)	91320	45.4950	45.49
*	36	1,4-Difluorobenzene	114	5.550	5.550	(1.000)	334220	50.0000	
	37	Benzene	78	5.134	5.134	(0.925)	291791	46.0832	46.08
	38	Trichloroethene	130	5.786	5.786	(1.043)	76559	45.9965	45.99
	39	Bromodichloromethane	83	6.273	6.273	(1.130)	89820	45.2942	45.29
	40	Methyl Methacrylate	41	5.820	5.820	(1.210)	31995	46.0616	46.06
	41	2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	38357	93.9890	93.98
	42	1,2-Dichloropropane	63	6.004	6.004	(1.082)	81881	46.2083	46.20
	43	2-Nitropropane	43	6.506	6.506	(1.352)	18585	56.4673	56.46
	44	Dibromomethane	93	6.116	6.116	(1.102)	48157	47.1535	47.15
	45	4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	172323	95.0355	95.03
	46	cis-1,3-Dichloropropene	75	6.686	6.686	(1.205)	113717	44.2255	44.22
*	47	Chlorobenzene-d5	117	8.182	8.182	(1.000)	298689	50.0000	
$	48	Toluene-d8	98	6.918	6.918	(0.846)	266334	44.4018	44.40
	49	Ethyl Methacrylate	69	7.289	7.289	(1.313)	102846	47.5629	47.56
	50	Toluene	91	6.978	6.978	(0.853)	304949	45.7326	45.73
	51	trans-1,3-Dichloropropene	75	7.192	7.192	(1.296)	92803	43.4583	43.45
	52	2-Hexanone	43	7.214	7.214	(0.882)	115636	92.7181	92.71
	53	1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	61103	48.2157	48.21
	54	1,3-Dichloropropane	76	7.495	7.495	(0.916)	132853	48.6872	48.68
	55	Dibromochloromethane	129	7.690	7.690	(0.940)	73258	46.5595	46.55
	56	Tetrachloroethene	164	7.454	7.454	(0.911)	60270	46.5004	46.50
	57	1,2-Dibromoethane	107	7.780	7.780	(0.951)	72148	48.2198	48.21
	58	1-Chlorohexane	55	8.193	8.193	(1.476)	59006	41.8607	41.86
	59	Chlorobenzene	112	8.208	8.208	(1.003)	196375	47.2401	47.24
	60	1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	69302	48.0169	48.01
	61	Ethylbenzene	106	8.305	8.305	(1.015)	100296	47.0994	47.09
	62	m,p-Xylenes	106	8.406	8.406	(1.027)	253936	95.9638	95.96
	63	o-Xylene	106	8.744	8.744	(1.069)	127107	49.6284	49.62
	64	Styrene	104	8.759	8.759	(1.071)	208270	50.2811	50.28
	66	Bromoform	173	8.916	8.916	(1.090)	43410	43.4563	43.45
	67	Isopropylbenzene	105	9.059	9.059	(1.107)	313299	51.5040	51.50
	68	1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	102684	47.9350	47.93
$	69	4-Bromofluorobenzene	95	9.190	9.190	(1.123)	99158	45.6926	45.69
*	70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	161263	50.0000	
	71	1,2,3-Trichloropropane	75	9.359	9.359	(0.920)	100868	45.9955	45.99
	72	trans-1,4-Dichloro-2-butene	53	9.374	9.374	(1.146)	20671	44.6307	44.63
	73	n-Propylbenzene	91	9.411	9.411	(0.926)	362682	49.4730	49.47
	74	Bromobenzene	156	9.314	9.314	(0.916)	87392	47.7681	47.76
	75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	250094	51.8076	51.80

76	2-Chlorotoluene	91	9.479	9.479 (0.932)	222145	46.7303	46.73
77	4-Chlorotoluene	91	9.572	9.572 (0.941)	256810	46.9102	46.91

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240605.b\W060514A.D Page 3
Report Date: 21-Jun-2024 17:35

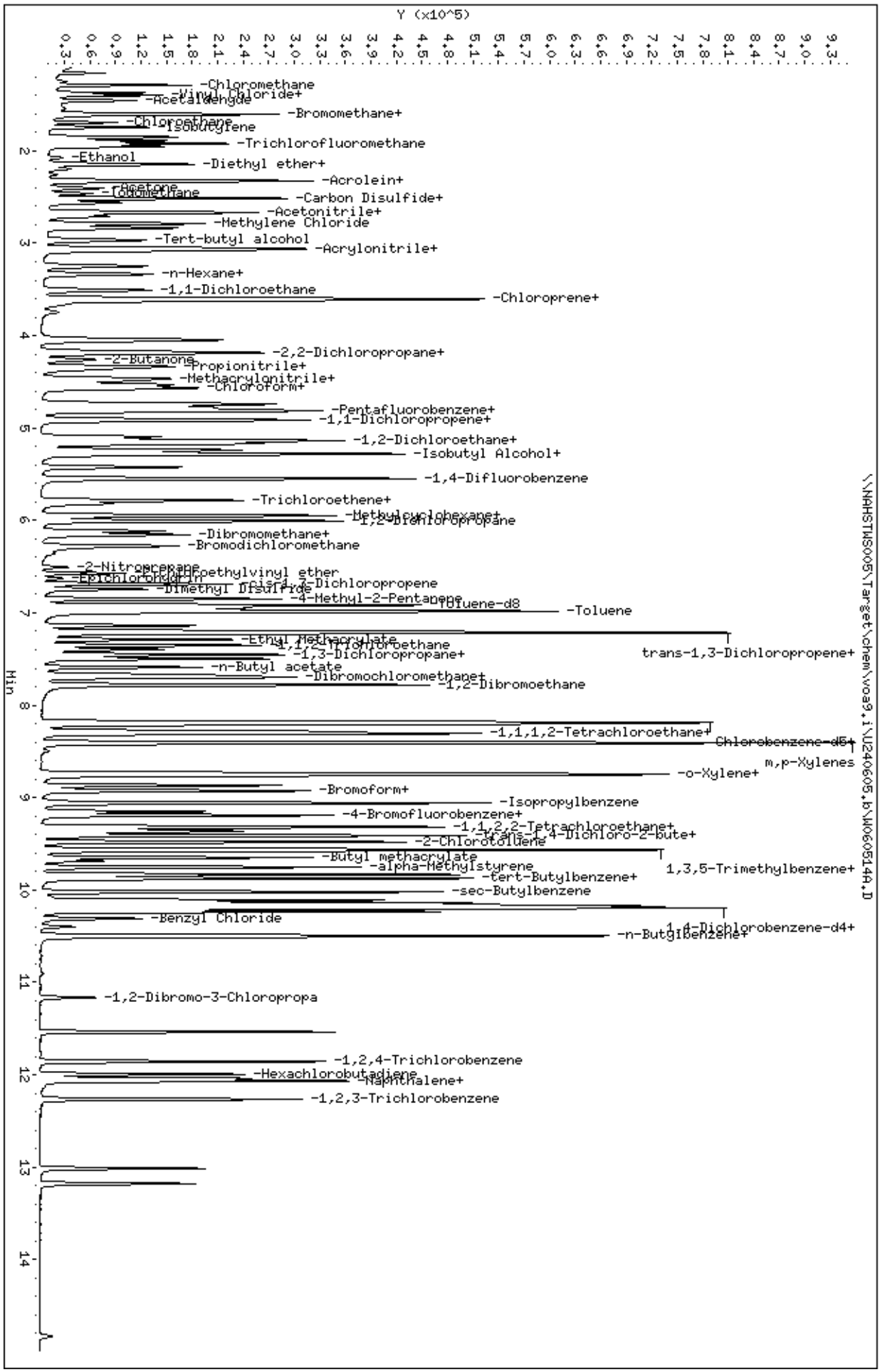
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	217109	49.2204	49.22
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	254173	50.9067	50.90
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	298422	51.1733	51.17
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	257701	52.0243	52.02
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	150600	44.4008	44.40
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	158770	47.2427	47.24
86	Benzyl Chloride	91	10.307	10.307	(1.260)	78251	41.6391	41.63
87	n-Butylbenzene	91	10.491	10.491	(1.032)	225914	45.6651	45.66
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	150862	47.4130	47.41
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	12760	48.4921	48.49
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	98241	46.1363	46.13
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	42586	46.1362	46.13
92	Naphthalene	128	12.065	12.065	(1.187)	246568	48.5630	48.56
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	91833	49.4188	49.41
146	Methyl acetate	43	2.708	2.708	(0.563)	78973	47.8278	47.82
138	Freon TF	101	2.330	2.330	(0.484)	53225	47.4448	47.44
141	Cyclohexane	56	4.778	4.778	(0.993)	94821	46.3186	46.31
142	Tetrahydrofuran	42	4.538	4.538	(0.943)	26932	91.3568	91.35
147	Methylcyclohexane	55	5.944	5.944	(1.071)	177105	46.0635	46.06
135	1,4-Dioxane	88	6.165	6.165	(1.281)	15945	914.678	914.67
132	n-Butanol	56	5.820	5.820	(1.210)	42778	876.372	876.37
136	n-Hexane	57	3.334	3.334	(0.693)	63447	44.1668	44.16
139	Diethyl ether	59	2.139	2.139	(0.445)	53815	47.6768	47.67
148	Tert-butyl alcohol	59	2.967	2.967	(0.617)	134064	957.494	957.49
149	Isopropyl alcohol	45	2.558	2.558	(0.532)	104013	924.889	924.88
156	Diisopropyl ether	45	3.616	3.616	(0.751)	244287	47.3683	47.36
162	Butyl acrylate	55	8.729	8.729	(1.067)	132887	45.0688	45.06
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	339445	44.3803	44.38
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	238356	47.0540	47.05
167	Ethanol	45	2.079	2.079	(0.432)	18253	901.003	901.00
172	tert-Butyl formate	59	5.239	5.239	(1.089)	134123	98.7424	98.74
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	440911	865.920	865.92
140	1,3-Butadiene	54	1.396	1.396	(0.290)	35874	47.2363	47.23
182	Epichlorohydrin	57	6.630	6.630	(1.195)	18379	200.342	200.34
M 94	1,2-Dichloroethylene (total)	96				144793	85.2775	85.27
M 95	Xylenes (total)	106				381043	144.137	144.13
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	101514	51.7012	51.70
130	Ethyl Acetate	43	4.530	4.530	(0.942)	28690	46.5334	46.53(M)
131	Methyl Acrylate	55	4.365	4.365	(0.907)	87977	47.4396	47.43
189	n-Butyl acetate	43	7.589	7.589	(0.928)	103554	46.3561	46.35(M)
134	Cyclohexanone	55	9.149	9.149	(0.900)	72611	1039.82	1039.81
185	Isoprene	39	2.150	2.150	(0.447)	16927	44.2304	44.23
188	Isopropyl acetate	43	5.280	5.280	(0.951)	230311	48.2549	48.25
150	Allyl alcohol	57	3.334	3.334	(0.693)	63447	883.337	883.33
194	Acetaldehyde	44	1.456	1.456	(0.303)	68825	201.378	201.37(M)
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	49007	53.6718	53.67
202	Isobutylene	41	1.745	1.745	(0.363)	32149	43.0375	43.03(M)
133	Ethyl Acrylate	55	5.944	5.944	(1.235)	177105	45.8988	45.89
163	Butyl methacrylate	41	9.647	9.647	(0.949)	82328	49.4512	49.45
159	Propylene oxide	43	2.195	2.195	(0.456)	12460	97.2392	97.23
178	Ethylene oxide	44	1.599	1.599	(0.332)	292017	98.1936	98.19(M)
203	2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	82530	47.9125	47.91

204 Tetrahydrothiophene	60	7.668	7.668 (0.937)	70049	49.4725	49.47(A)
205 sec-Butyl Ether	57	7.214	7.214 (0.882)	152533	41.7028	41.70(AM)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
187 n-Amyl acetate	43	8.927	8.927	(1.091)	131153	47.1595	47.15(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
    exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa9,i\U240605,b\W060514A,D
Date : 05-JUN-2024 23:38
Client ID: VSTD050
Sample Info: VSTD050;VSTD050;2;;ICV
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: TS
Column diameter: 0.18

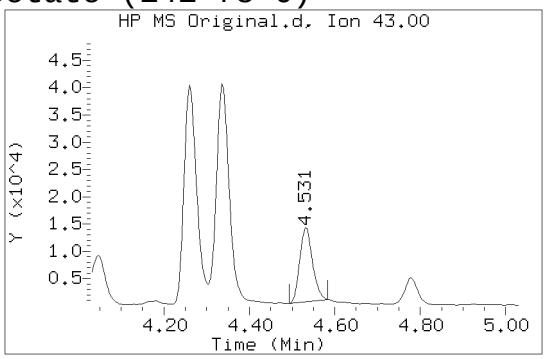
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Inj Date : 05-JUN-2024 23:38
InstruID : VOA9.i
LabSampID : VSTD050

Ethyl Acetate (141-78-6)

Reason Code:

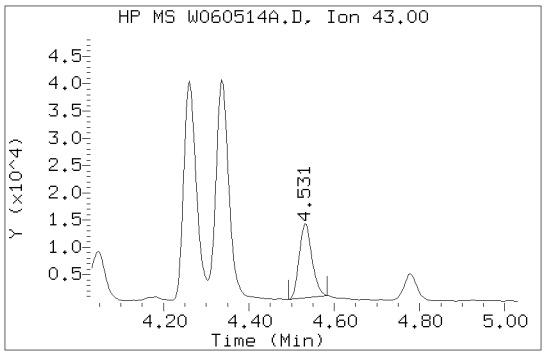
BEFORE

MASS
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AREA
28690
HEIGHT
13609
21-Jun-2024
17:11
RUCHA
PATEL



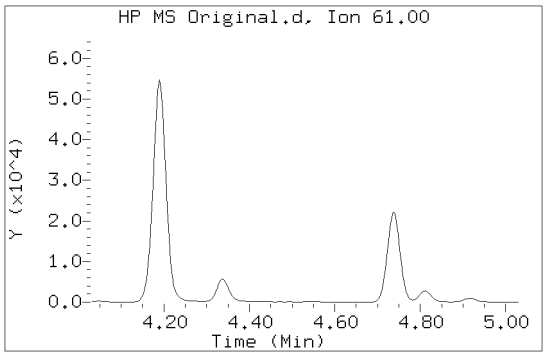
AFTER

MASS
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21-Jun-2024
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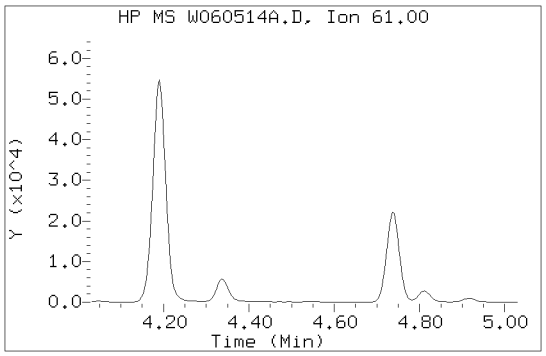
BEFORE

MASS
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21-Jun-2024
17:11
RUCHA
PATEL



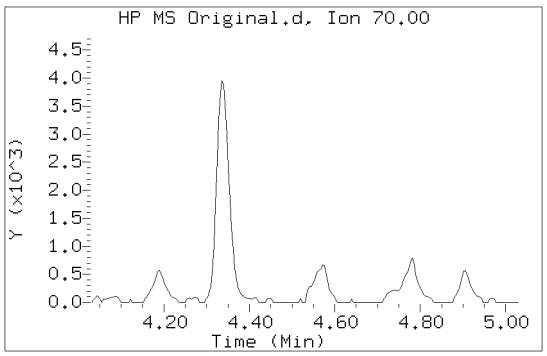
AFTER

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AREA
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21-Jun-2024
17:35
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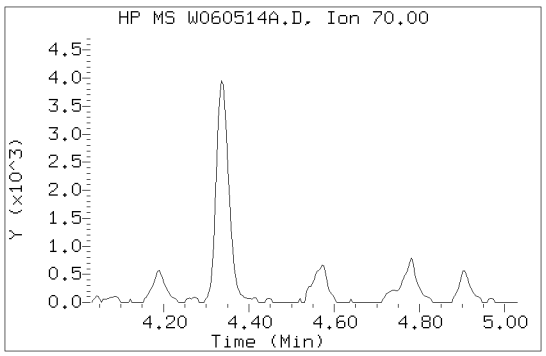
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AFTER

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AREA
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21-Jun-2024
17:35
RUCHA
PATEL

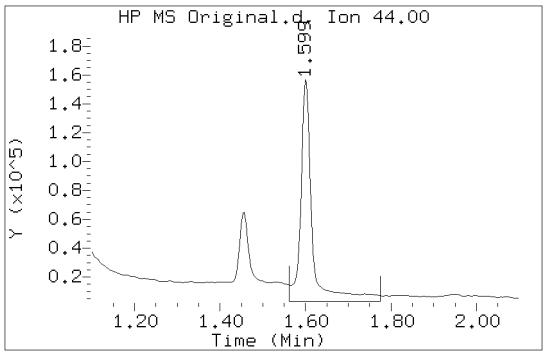


Ethylene oxide (75-21-8)

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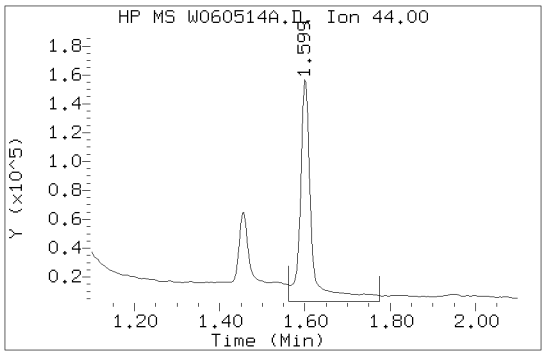
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AFTER

MASS
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AREA
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HEIGHT
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21-Jun-2024
17:35
RUCHA
PATEL



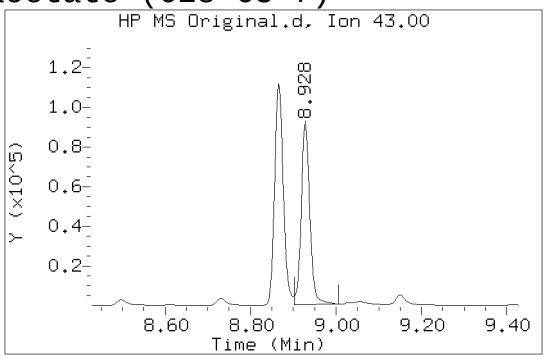
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Inj Date : 05-JUN-2024 23:38
InstruID : VOA9.i
LabSampID : VSTD050

n-Amyl acetate (628-63-7)

Reason Code:

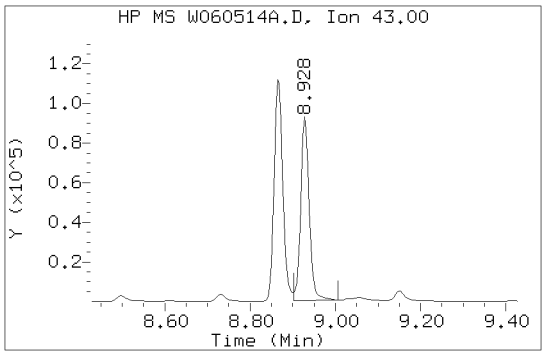
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92657
21-Jun-2024
17:11
RUCHA
PATEL



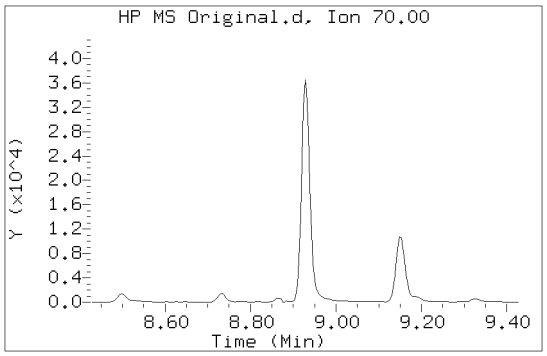
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PATEL



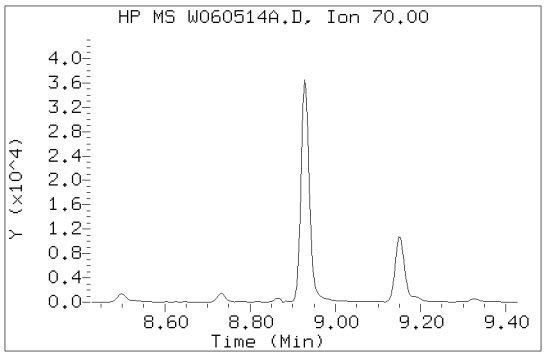
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17:11
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PATEL



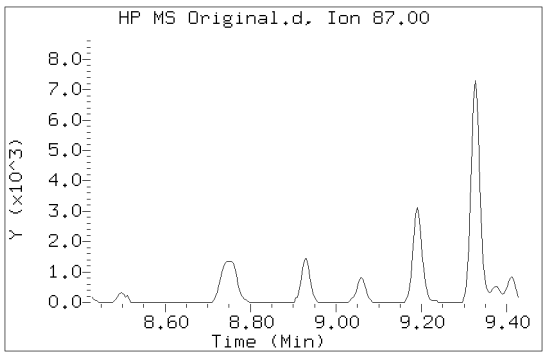
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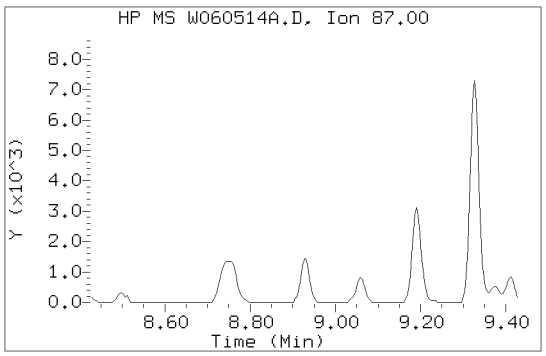
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HEIGHT
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21-Jun-2024
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PATEL



AFTER

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AREA
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HEIGHT
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21-Jun-2024
17:35
RUCHA
PATEL

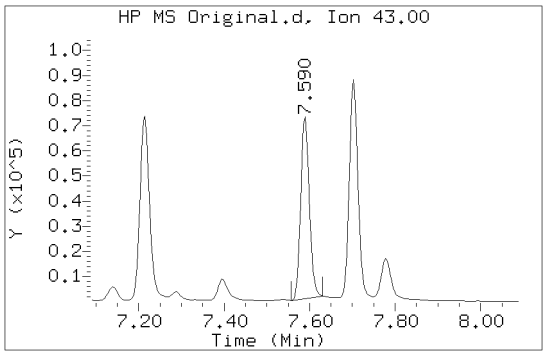


n-Butyl acetate (123-86-4)

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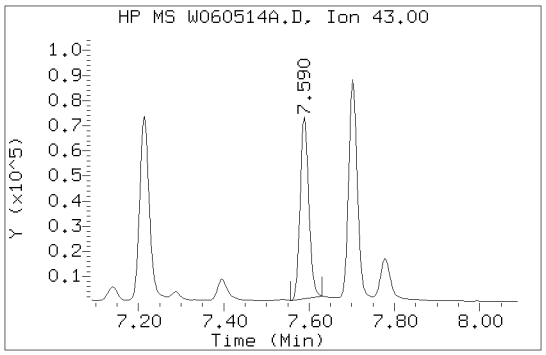
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21-Jun-2024
17:11
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AFTER

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21-Jun-2024
17:35
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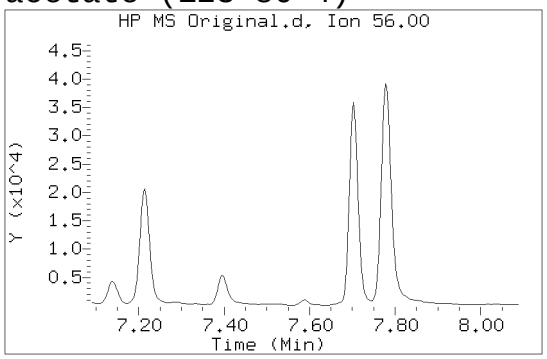
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Inj Date : 05-JUN-2024 23:38
InstruID : VOA9.i
LabSampID : VSTD050

n-Butyl acetate (123-86-4)

Reason Code:

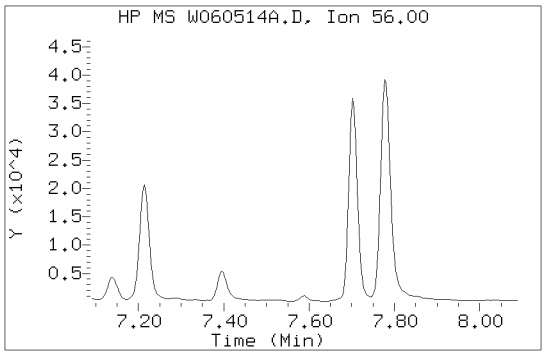
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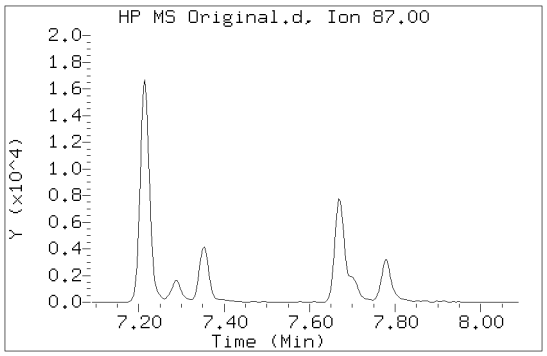
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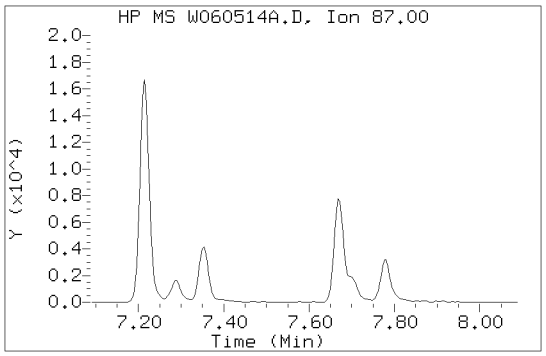
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AFTER

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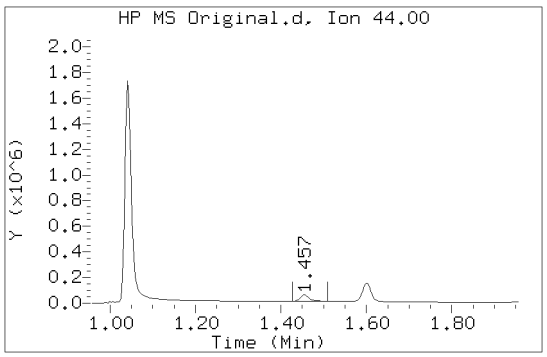


Acetaldehyde (75-07-0)

Reason Code:

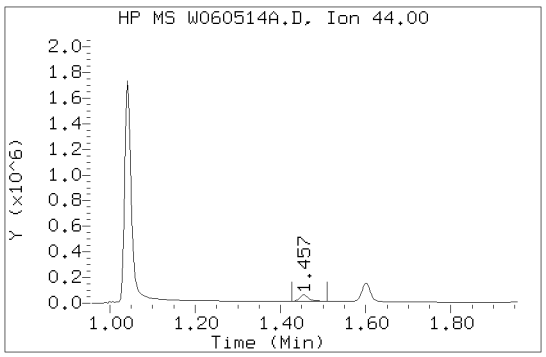
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21-Jun-2024
17:11
RUCHA
PATEL



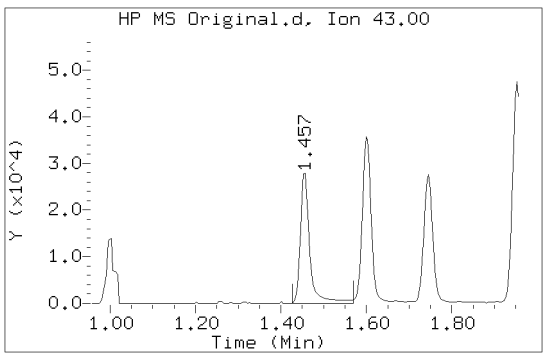
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21-Jun-2024
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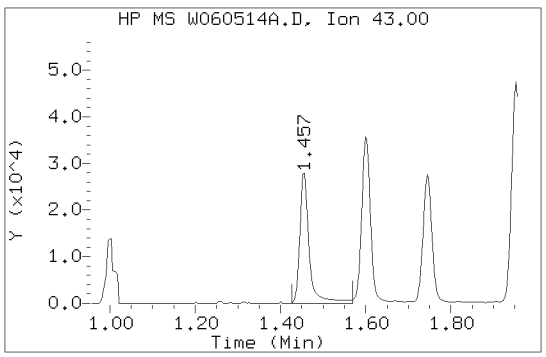
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21-Jun-2024
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AFTER

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17:35
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PATEL



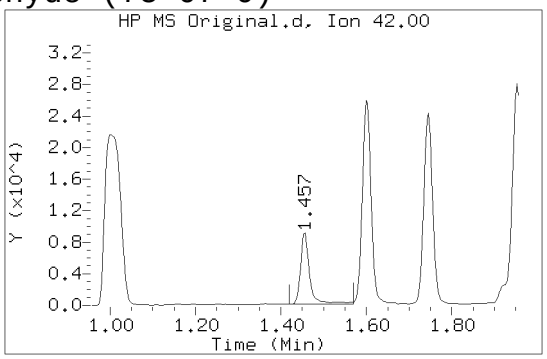
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Inj Date : 05-JUN-2024 23:38
InstruID : VOA9.i
LabSampID : VSTD050

Acetaldehyde (75-07-0)

Reason Code:

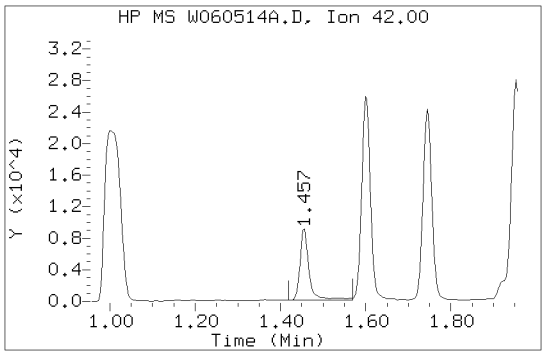
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9028
21-Jun-2024
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AFTER

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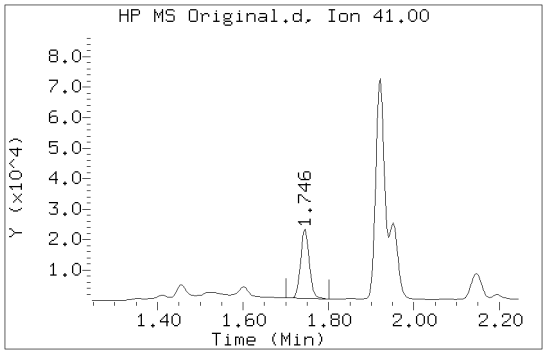


Isobutylene (115-11-7)

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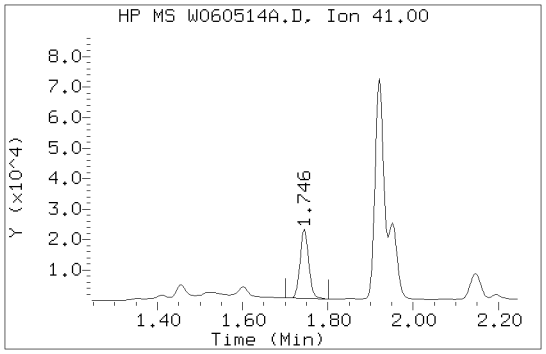
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21-Jun-2024
17:11
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PATEL



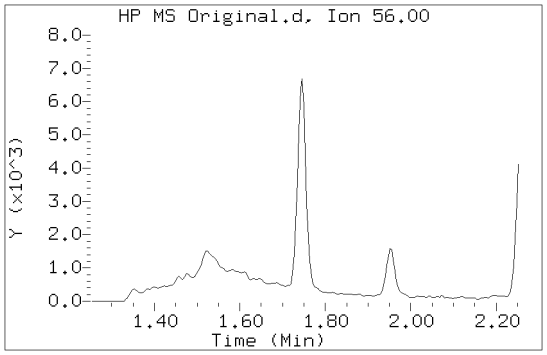
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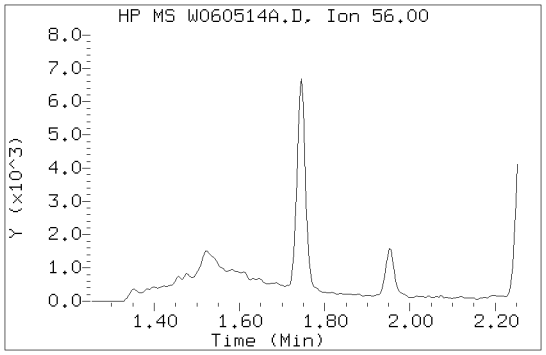
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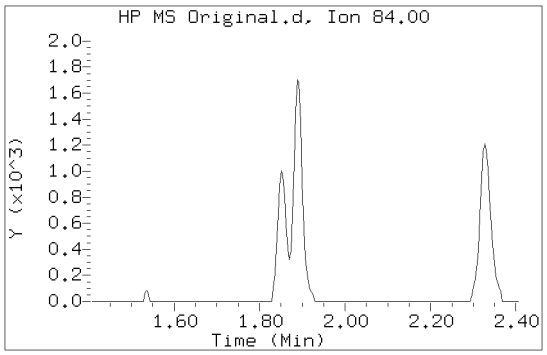
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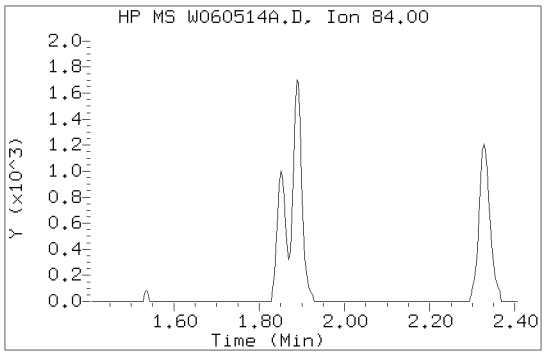
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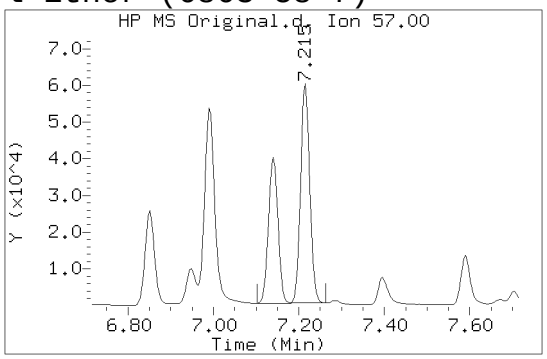
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Inj Date : 05-JUN-2024 23:38
InstruID : VOA9.i
LabSampID : VSTD050

sec-Butyl Ether (6863-58-7)

Reason Code:

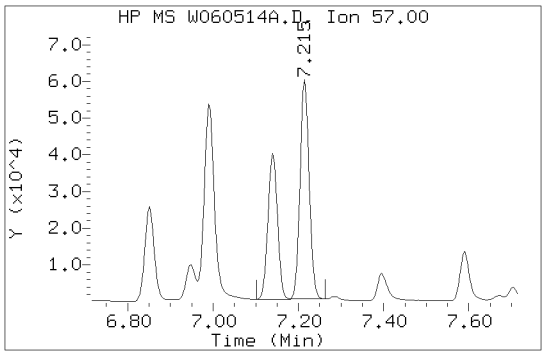
BEFORE

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59777
21-Jun-2024
17:11
RUCHA
PATEL



AFTER

MASS
57
AREA
152533
HEIGHT
59777
21-Jun-2024
17:35
RUCHA
PATEL



right solutions.
right partner.

RawData

<textMethods>

Workorder

HS24051959

Client

Bhate Environmental Associates, Inc.

Project

LHAAP-58

07/03/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Data File: \\nahstws005\Target\chem\voa9.i\U240606.b\U060601.D Page 1
Report Date: 06-Jun-2024 17:16

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240606.b\U060601.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 06-JUN-2024 10:07
Operator : TS Inst ID: VOA9.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240606.b\bfb.m
Meth Date : 27-Jan-2023 08:08 apoluri Quant Type: ISTD
Cal Date : 30-MAR-2018 18:09 Cal File: U033003.d
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAHSTW7026

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	2.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/l)	TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
9.194	9.180 (0.000)		95	61664			0.00- 100.00	100.00
9.194	9.180 (0.000)		50	11878			15.00- 40.00	19.26
9.194	9.180 (0.000)		75	31160			30.00- 60.00	50.53
9.194	9.180 (0.000)		96	4198			5.00- 9.00	6.81
9.194	9.180 (0.000)		173	0	0.0	0.0	0.00- 2.00	0.00
9.194	9.180 (0.000)		174	59216			50.00- 0.00	96.03
9.194	9.180 (0.000)		175	4752			5.00- 9.00	8.02
9.194	9.180 (0.000)		176	56280			95.00- 101.00	95.04
9.194	9.180 (0.000)		177	3488			5.00- 9.00	6.20

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060602.D Page 1
Report Date: 21-Jun-2024 17:22

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060602.D
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Inj Date : 06-JUN-2024 10:50
Operator : TS Inst ID: VOA9.i
Smp Info : VSTD050;VSTD050;2;;CCV
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa9.i\U240606.b\8260C.m
Meth Date : 21-Jun-2024 17:22 VOA9.i Quant Type: ISTD
Cal Date : 05-JUN-2024 20:24 Cal File: W060506.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.812	4.812	(1.000)	236447	50.0000	
2	Dichlorodifluoromethane	85	1.157	1.157	(0.240)	38455	50.0000	52.34
3	Chloromethane	50	1.288	1.288	(0.268)	140431	50.0000	51.53
4	Propionitrile	54	4.328	4.328	(0.900)	102933	500.000	449.39
5	Vinyl Chloride	62	1.370	1.370	(0.285)	76052	50.0000	47.36
6	Bromomethane	94	1.599	1.599	(0.332)	34908	50.0000	47.99
7	Chloroethane	64	1.685	1.685	(0.350)	55028	50.0000	47.38
8	Trichlorofluoromethane	101	1.884	1.884	(0.392)	100285	50.0000	48.43
9	Acrolein	56	2.255	2.255	(0.469)	6939	100.000	90.18
10	Acetone	43	2.401	2.401	(0.499)	57518	100.000	91.05
11	1,1-Dichloroethene	96	2.322	2.322	(0.483)	62047	50.0000	45.75
12	Isobutyl Alcohol	43	5.280	5.280	(1.097)	224274	1000.00	891.84
13	Acetonitrile	39	2.664	2.664	(0.554)	89258	500.000	456.60
14	Allyl Chloride	41	2.664	2.664	(0.554)	202246	50.0000	45.62
15	Iodomethane	142	2.457	2.457	(0.511)	52258	100.000	149.08
16	Acrylonitrile	53	3.057	3.057	(0.635)	53890	100.000	90.66
17	Methylene Chloride	84	2.787	2.787	(0.579)	80129	50.0000	49.07
18	Methyl tert-butyl ether	73	3.072	3.072	(0.639)	181644	50.0000	45.10
19	Carbon Disulfide	76	2.510	2.510	(0.522)	359201	100.000	92.41
20	trans-1,2-Dichloroethene	96	3.050	3.050	(0.634)	69406	50.0000	47.81

21 Vinyl Acetate	43	4.332	4.332 (0.900)	87721	100.000	94.96
22 1,1-Dichloroethane	63	3.503	3.503 (0.728)	135603	50.0000	47.70

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060602.D Page 2
Report Date: 21-Jun-2024 17:22

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	3.601	3.601	(0.748)	109844	50.0000	45.56
	24 2-Butanone	43	4.257	4.257	(0.885)	80235	100.000	91.98
	25 Methacrylonitrile	41	4.485	4.485	(0.932)	47762	50.0000	45.79(a)
	26 2,2-Dichloropropane	77	4.174	4.174	(0.868)	96468	50.0000	47.94
	27 cis-1,2-Dichloroethene	96	4.189	4.189	(0.871)	83187	50.0000	47.68
	28 Chloroform	83	4.568	4.568	(0.949)	139524	50.0000	44.77
	29 Bromochloromethane	128	4.463	4.463	(0.928)	42023	50.0000	49.40
$	30 Dibromofluoromethane	113	4.740	4.740	(0.985)	88627	50.0000	52.00
	31 1,1,1-Trichloroethane	97	4.737	4.737	(0.984)	106730	50.0000	47.69
	32 1,1-Dichloropropene	75	4.917	4.917	(0.886)	101109	50.0000	45.84
	33 1,2-Dichloroethane	62	5.171	5.171	(0.932)	116129	50.0000	49.21
	34 Carbon Tetrachloride	117	4.905	4.905	(0.884)	85760	50.0000	47.12
$	35 1,2-Dichloroethane-d4	65	5.093	5.093	(1.058)	107750	50.0000	51.85
*	36 1,4-Difluorobenzene	114	5.546	5.546	(1.000)	341467	50.0000	
	37 Benzene	78	5.134	5.134	(0.926)	312564	50.0000	48.31
	38 Trichloroethene	130	5.782	5.782	(1.043)	77442	50.0000	45.53
	39 Bromodichloromethane	83	6.274	6.274	(1.131)	94360	50.0000	46.57
	40 Methyl Methacrylate	41	5.820	5.820	(1.210)	31304	50.0000	43.66
	41 2-Chloroethylvinyl ether	63	6.573	6.573	(1.185)	35779	100.000	86.69
	42 1,2-Dichloropropane	63	6.004	6.004	(1.082)	86178	50.0000	47.60
	43 2-Nitropropane	43	6.502	6.502	(1.351)	17236	50.0000	50.59
	44 Dibromomethane	93	6.116	6.116	(1.103)	51067	50.0000	48.94
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	165099	100.000	87.87
	46 cis-1,3-Dichloropropene	75	6.686	6.686	(1.205)	117216	50.0000	44.59
*	47 Chlorobenzene-d5	117	8.182	8.182	(1.000)	310220	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.846)	344985	50.0000	55.37
	49 Ethyl Methacrylate	69	7.286	7.286	(1.314)	98289	50.0000	44.49
	50 Toluene	91	6.978	6.978	(0.853)	323841	50.0000	46.76
	51 trans-1,3-Dichloropropene	75	7.192	7.192	(1.297)	94963	50.0000	43.52
	52 2-Hexanone	43	7.211	7.211	(0.881)	111223	100.000	85.75
	53 1,1,2-Trichloroethane	83	7.349	7.349	(0.898)	63758	50.0000	48.44
	54 1,3-Dichloropropane	76	7.496	7.496	(0.916)	137968	50.0000	48.68
	55 Dibromochloromethane	129	7.687	7.687	(0.940)	75161	50.0000	46.01
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	63077	50.0000	46.85
	57 1,2-Dibromoethane	107	7.781	7.781	(0.951)	73397	50.0000	47.24
	58 1-Chlorohexane	55	8.193	8.193	(1.477)	64060	50.0000	44.49
	59 Chlorobenzene	112	8.208	8.208	(1.003)	210412	50.0000	48.73
	60 1,1,1,2-Tetrachloroethane	131	8.279	8.279	(1.012)	72343	50.0000	48.26
	61 Ethylbenzene	106	8.302	8.302	(1.015)	105162	50.0000	47.54
	62 m,p-Xylenes	106	8.407	8.407	(1.027)	269996	100.000	98.24
	63 o-Xylene	106	8.744	8.744	(1.069)	133646	50.0000	50.24
	64 Styrene	104	8.759	8.759	(1.071)	222365	50.0000	51.68
	66 Bromoform	173	8.916	8.916	(1.090)	43245	50.0000	41.82
	67 Isopropylbenzene	105	9.059	9.059	(1.107)	326351	50.0000	51.65
	68 1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	107383	50.0000	48.55
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	128908	50.0000	57.19
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	166510	50.0000	
	71 1,2,3-Trichloropropane	75	9.359	9.359	(0.920)	103758	50.0000	45.82
	72 trans-1,4-Dichloro-2-butene	53	9.374	9.374	(1.146)	21213	50.0000	44.10
	73 n-Propylbenzene	91	9.407	9.407	(0.925)	386783	50.0000	51.09
	74 Bromobenzene	156	9.314	9.314	(0.916)	91386	50.0000	48.37
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	264942	50.0000	53.15

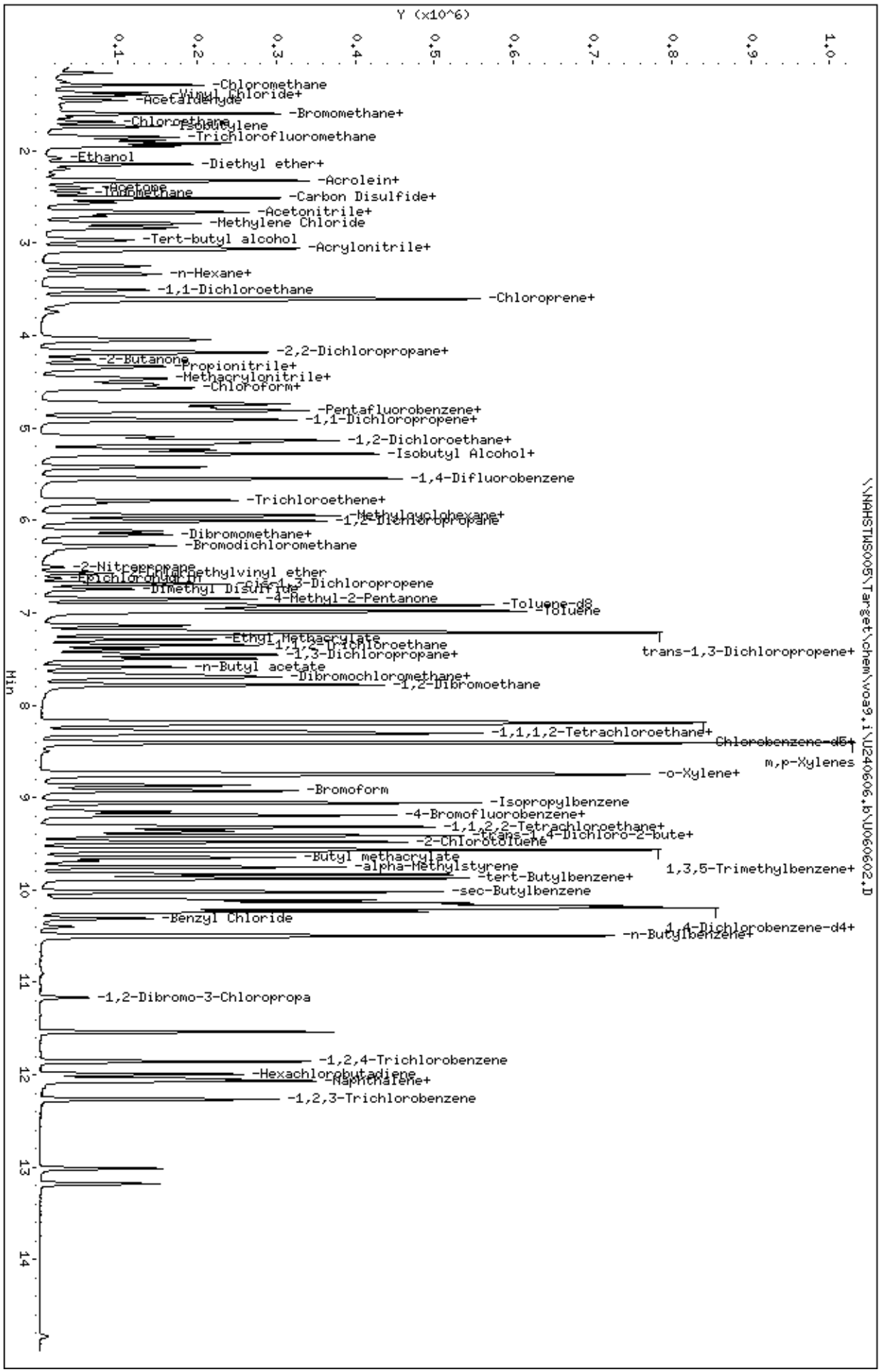
76	2-Chlorotoluene	91	9.479	9.479 (0.932)	235513	50.0000	47.98
77	4-Chlorotoluene	91	9.572	9.572 (0.941)	272846	50.0000	48.26

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	78 tert-Butylbenzene	119	9.835	9.835	(0.967)	229695	50.0000	50.43
	79 1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	268045	50.0000	51.99
	81 sec-Butylbenzene	105	10.019	10.019	(0.985)	315249	50.0000	52.35
	82 p-Isopropyltoluene	119	10.142	10.142	(0.997)	274708	50.0000	53.71
	83 1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	160454	50.0000	45.81
	84 1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	169647	50.0000	48.89
	86 Benzyl Chloride	91	10.307	10.307	(1.260)	91172	50.0000	46.34
	87 n-Butylbenzene	91	10.491	10.491	(1.032)	240821	50.0000	47.08
	88 1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	161221	50.0000	49.07
	89 1,2-Dibromo-3-Chloropropane	155	11.166	11.166	(1.098)	12046	50.0000	44.60
	90 1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	103456	50.0000	47.01
	91 Hexachlorobutadiene	225	11.994	11.994	(1.180)	46491	50.0000	48.77
	92 Naphthalene	128	12.065	12.065	(1.187)	235498	50.0000	45.06
	93 1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	91386	50.0000	47.62
	146 Methyl acetate	43	2.705	2.705	(0.562)	83079	50.0000	48.63
	138 Freon TF	101	2.326	2.326	(0.484)	59081	50.0000	50.87
	141 Cyclohexane	56	4.778	4.778	(0.993)	99364	50.0000	46.88
	142 Tetrahydrofuran	42	4.534	4.534	(0.942)	26189	100.000	85.76
	147 Methylcyclohexane	55	5.944	5.944	(1.072)	180909	50.0000	46.05
	135 1,4-Dioxane	88	6.161	6.161	(1.280)	16519	1000.00	914.98
	132 n-Butanol	56	5.820	5.820	(1.210)	41387	1000.00	822.73
	136 n-Hexane	57	3.335	3.335	(0.693)	74133	50.0000	49.77
	139 Diethyl ether	59	2.139	2.139	(0.445)	53088	50.0000	45.43
	148 Tert-butyl alcohol	59	2.963	2.963	(0.616)	122888	1000.00	848.87
	149 Isopropyl alcohol	45	2.559	2.559	(0.532)	100296	1000.00	862.07
	156 Diisopropyl ether	45	3.612	3.612	(0.751)	249554	50.0000	46.74
	162 Butyl acrylate	55	8.729	8.729	(1.067)	130435	50.0000	42.59
	164 Dicyclopentadiene	66	10.198	10.198	(1.003)	364301	50.0000	46.09
	166 1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	247698	50.0000	47.35
	167 Ethanol	45	2.079	2.079	(0.432)	18965	1000.00	904.40
	172 tert-Butyl formate	59	5.239	5.239	(1.089)	121552	100.000	86.51
	151 4-Methyl-2-pentanol	45	7.214	7.214	(1.301)	422645	1000.00	815.91(M)
	140 1,3-Butadiene	54	1.397	1.397	(0.290)	38054	50.0000	48.39
	182 Epichlorohydrin	57	6.626	6.626	(1.195)	17292	200.000	185.53
M	94 1,2-Dichloroethylene (total)	96				152593	100.000	(a)
	145 alpha-Methylstyrene	118	9.752	9.752	(0.959)	104441	50.0000	51.51
	130 Ethyl Acetate	43	4.530	4.530	(0.942)	32009	50.0000	50.38(M)
	131 Methyl Acrylate	55	4.362	4.362	(0.907)	84346	50.0000	43.99
	189 n-Butyl acetate	43	7.589	7.589	(0.928)	102576	50.0000	44.21(M)
	134 Cyclohexanone	55	9.153	9.153	(0.900)	62505	1000.00	870.08
	185 Isoprene	39	2.146	2.146	(0.446)	18197	50.0000	45.93
	188 Isopropyl acetate	43	5.280	5.280	(0.952)	224274	50.0000	46.03
	150 Allyl alcohol	57	3.335	3.335	(0.693)	74133	1000.00	995.41
	194 Acetaldehyde	44	1.453	1.453	(0.302)	96204	200.000	271.54
	200 Dimethyl Disulfide	94	6.742	6.742	(0.824)	44022	50.0000	47.65
	202 Isobutylene	41	1.738	1.738	(0.361)	39393	50.0000	50.94(M)
	133 Ethyl Acrylate	55	5.944	5.944	(1.235)	180909	50.0000	45.29
	163 Butyl methacrylate	41	9.647	9.647	(0.949)	85742	50.0000	49.86
	159 Propylene oxide	43	2.195	2.195	(0.456)	11684	100.000	88.08
	178 Ethylene oxide	44	1.591	1.591	(0.331)	268978	100.000	84.90
	203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	84511	50.0000	47.55
	204 Tetrahydrothiophene	60	7.668	7.668	(0.937)	68079	50.0000	46.29(A)

205 sec-Butyl Ether	57	7.214	7.214 (0.882)	153850	50.0000	40.49(AM)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.



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Instrument: VOA9.i
Operator: TS
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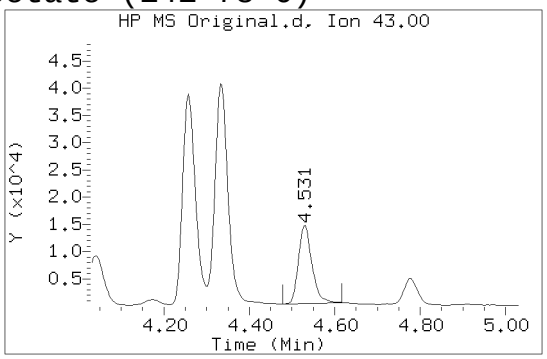
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Ethyl Acetate (141-78-6)

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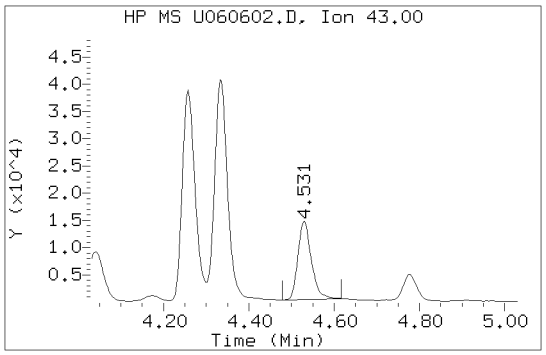
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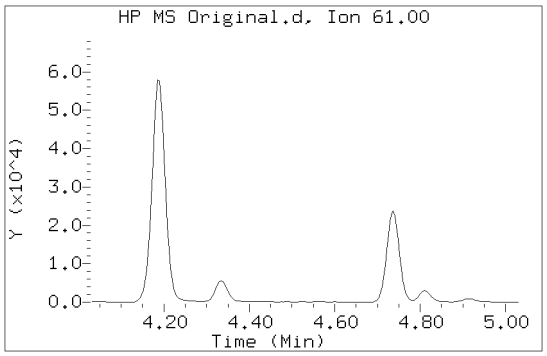
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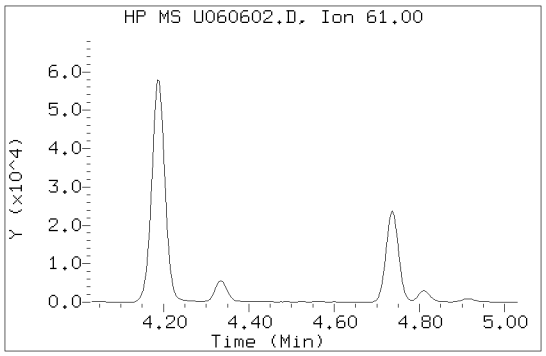
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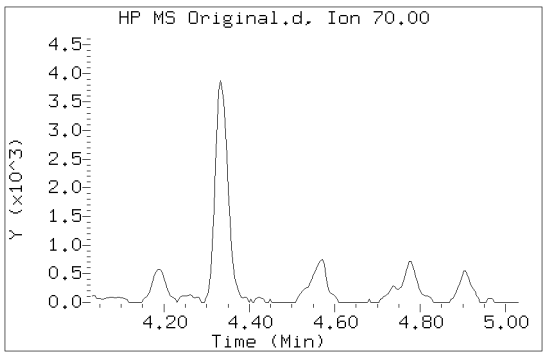
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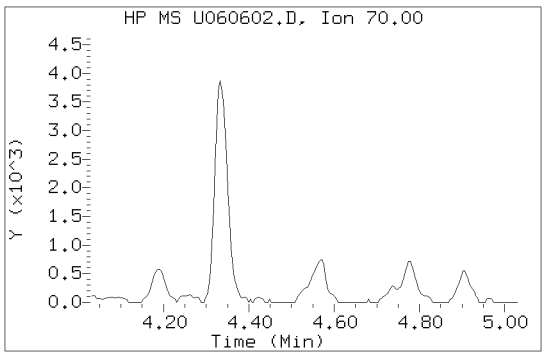
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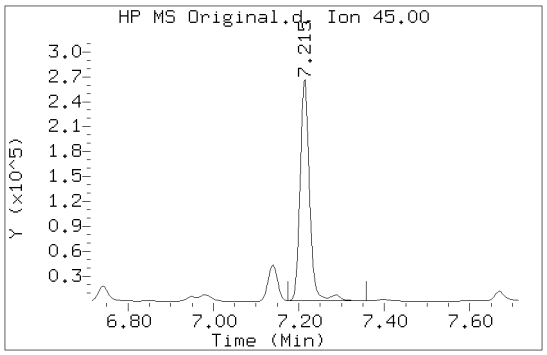


4-Methyl-2-pentanol (108-11-2)

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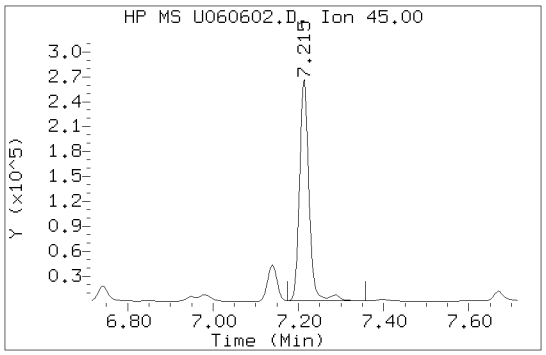
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AFTER

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PATEL



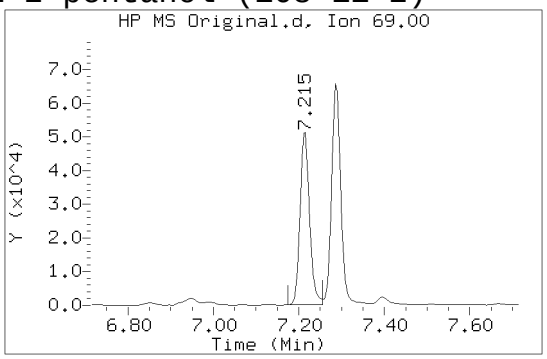
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LabSampID : VSTD050

4-Methyl-2-pentanol (108-11-2)

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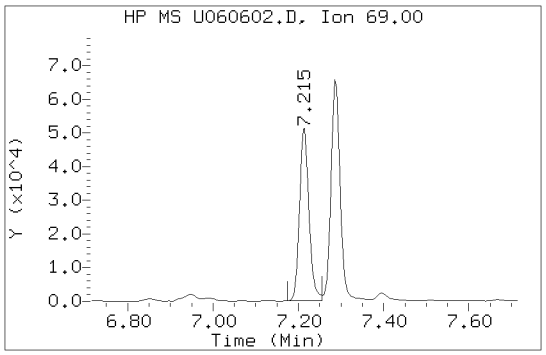
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AFTER

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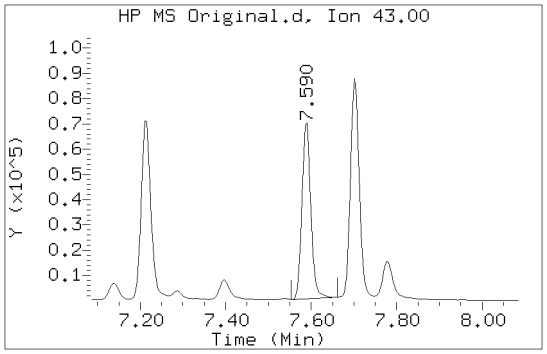


n-Butyl acetate (123-86-4)

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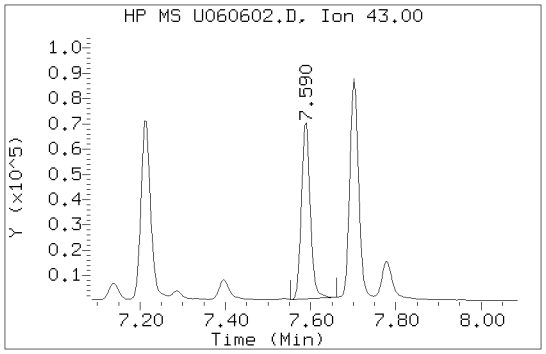
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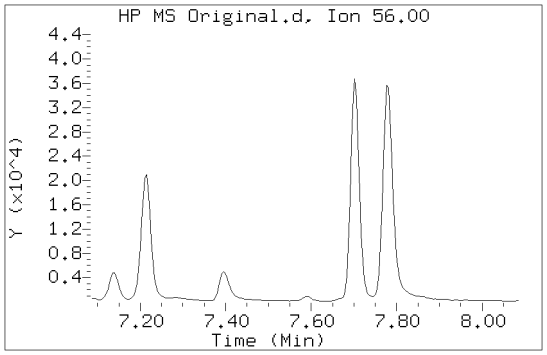
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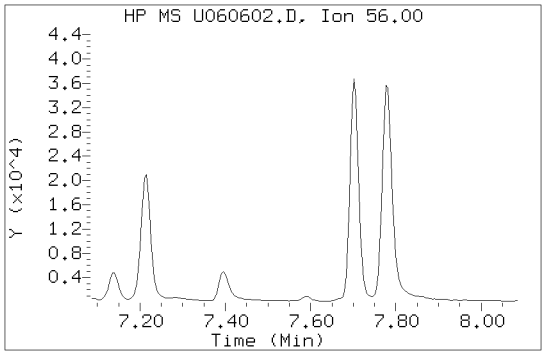
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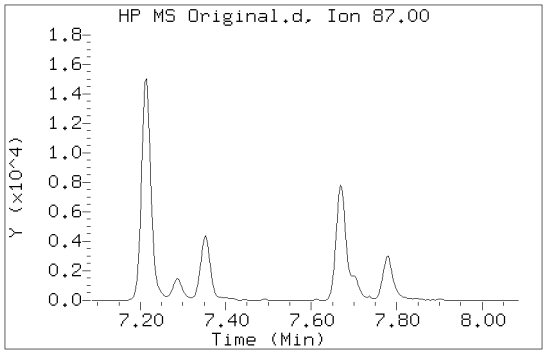
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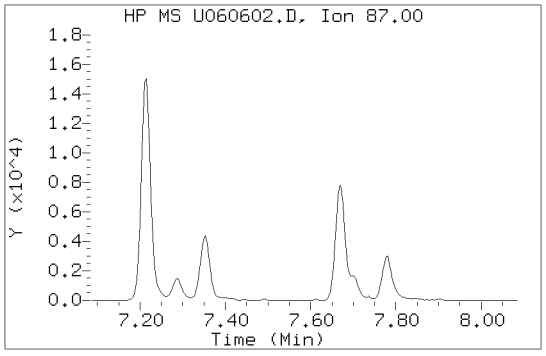
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21-Jun-2024
17:22
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AFTER

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21-Jun-2024
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PATEL



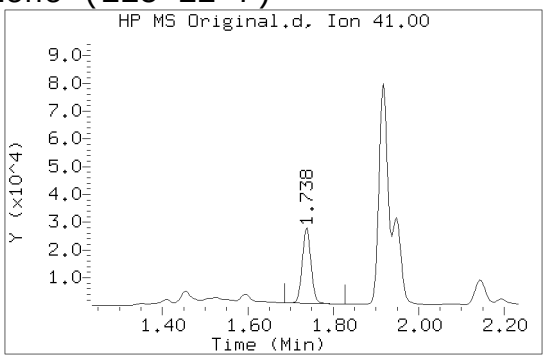
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Isobutylene (115-11-7)

Reason Code:

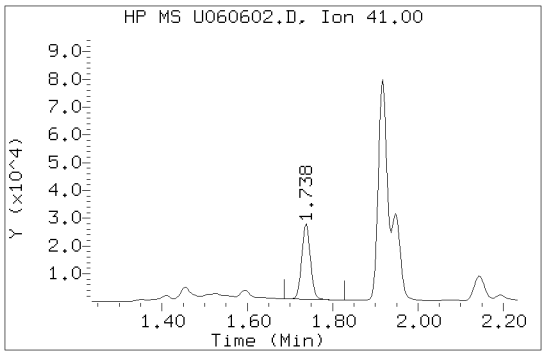
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PATEL



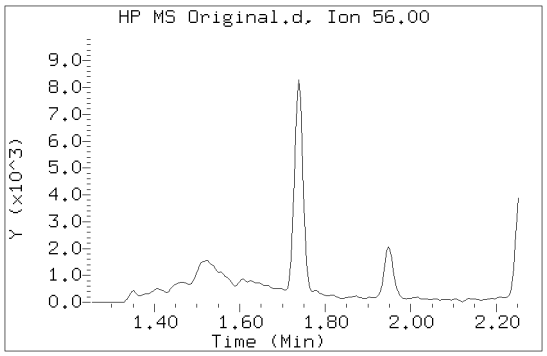
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21-Jun-2024
17:22
RUCHA
PATEL



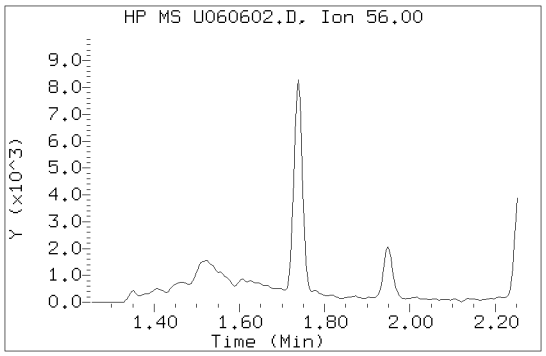
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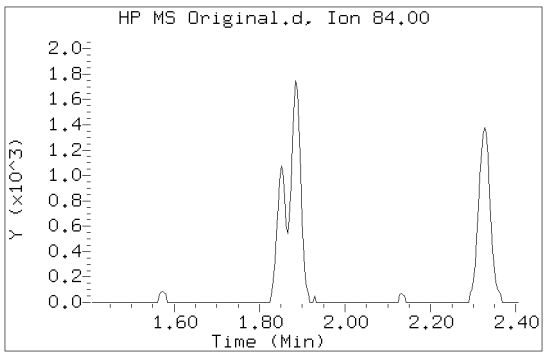
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17:22
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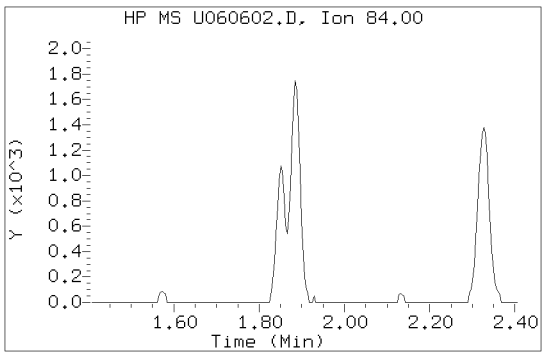
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AFTER

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21-Jun-2024
17:22
RUCHA
PATEL

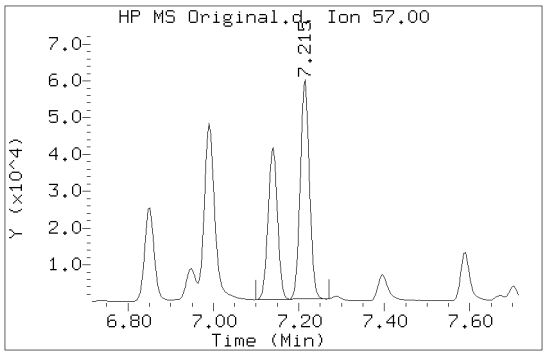


sec-Butyl Ether (6863-58-7)

Reason Code:

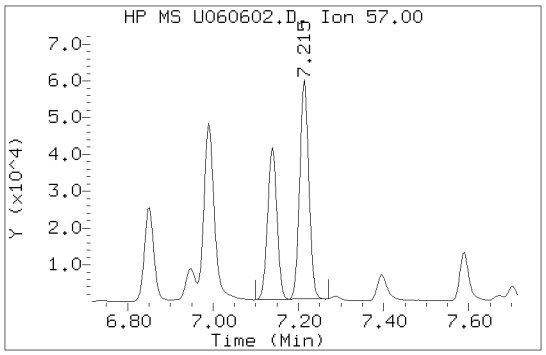
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59604
21-Jun-2024
17:22
RUCHA
PATEL



AFTER

MASS
57
AREA
153850
HEIGHT
59604
21-Jun-2024
17:22
RUCHA
PATEL



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060603.D Page 1
Report Date: 21-Jun-2024 17:22

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060603.D
Lab Smp Id: VLCSW-240606 Client Smp ID: VLCSW-240606
Inj Date : 06-JUN-2024 11:12
Operator : TS Inst ID: VOA9.i
Smp Info : VLCSW-240606;VLCSW-240606;3;;LCS
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240606.b\8260C.m
Meth Date : 21-Jun-2024 17:22 VOA9.i Quant Type: ISTD
Cal Date : 05-JUN-2024 20:24 Cal File: W060506.D
Als bottle: 3 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.812	4.812	(1.000)	236067	50.0000	
2 Dichlorodifluoromethane	85	1.160	1.157	(0.241)	15460	21.5556	21.55
3 Chloromethane	50	1.292	1.288	(0.269)	60203	20.0827	20.08
4 Propionitrile	54	4.332	4.328	(0.900)	44005	193.263	193.26(a)
5 Vinyl Chloride	62	1.374	1.370	(0.286)	31994	19.9584	19.95
6 Bromomethane	94	1.603	1.599	(0.333)	15828	21.4937	21.49
7 Chloroethane	64	1.693	1.685	(0.352)	23553	20.2090	20.20
8 Trichlorofluoromethane	101	1.888	1.884	(0.392)	41735	20.1908	20.19
9 Acrolein	56	2.259	2.255	(0.469)	2757	33.9962	33.99
10 Acetone	43	2.405	2.401	(0.500)	25317	37.7448	37.74
11 1,1-Dichloroethene	96	2.326	2.322	(0.484)	26396	19.4962	19.49
12 Isobutyl Alcohol	43	5.280	5.280	(1.097)	87231	347.438	347.43(a)
13 Acetonitrile	39	2.667	2.664	(0.554)	37611	193.731	193.73(a)
14 Allyl Chloride	41	2.667	2.664	(0.554)	86067	19.4877	19.48(a)
15 Iodomethane	142	2.461	2.457	(0.512)	21051	70.4889	70.48
16 Acrylonitrile	53	3.061	3.057	(0.636)	23119	38.1153	38.11
17 Methylene Chloride	84	2.787	2.787	(0.579)	32840	19.3238	19.32
18 Methyl tert-butyl ether	73	3.076	3.072	(0.639)	78359	19.4612	19.46
19 Carbon Disulfide	76	2.514	2.510	(0.522)	144662	37.2801	37.28
20 trans-1,2-Dichloroethene	96	3.053	3.050	(0.635)	28411	19.6463	19.64

21 Vinyl Acetate	43	4.336	4.332 (0.901)	32350	35.3629	35.36
22 1,1-Dichloroethane	63	3.507	3.503 (0.729)	55540	19.3836	19.38

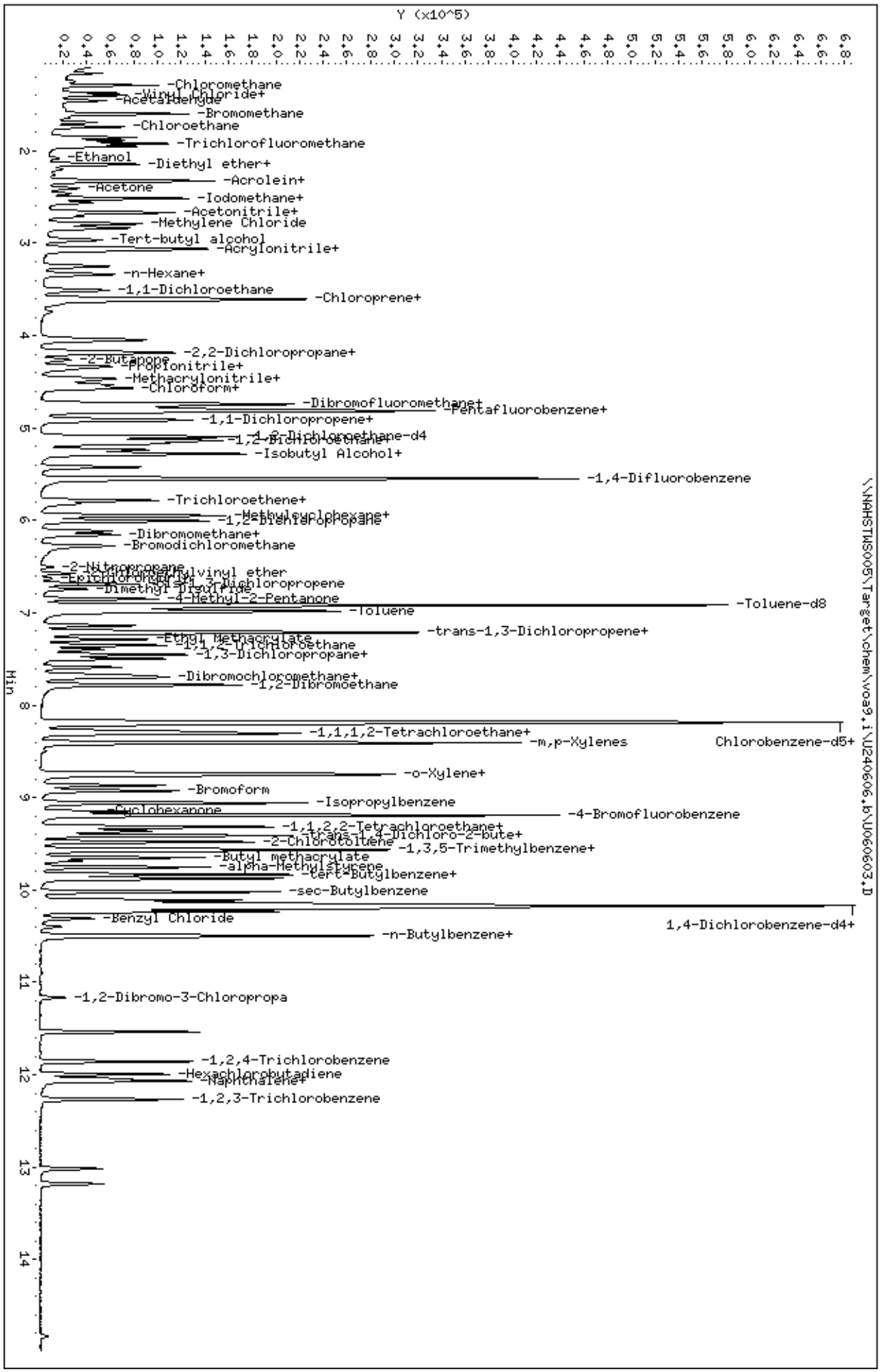
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	23 Chloroprene	53	3.605	3.601	(0.749)	44613	18.5374	18.53
	24 2-Butanone	43	4.261	4.257	(0.885)	33786	38.3509	38.35
	25 Methacrylonitrile	41	4.493	4.485	(0.934)	17670	17.8942	17.89(a)
	26 2,2-Dichloropropane	77	4.174	4.174	(0.868)	38054	18.9445	18.94
	27 cis-1,2-Dichloroethene	96	4.189	4.189	(0.871)	33106	19.1098	19.10
	28 Chloroform	83	4.568	4.568	(0.949)	56156	18.0492	18.04
	29 Bromochloromethane	128	4.463	4.463	(0.928)	16788	19.4569	19.45
$	30 Dibromofluoromethane	113	4.744	4.740	(0.986)	90046	52.9196	52.91
	31 1,1,1-Trichloroethane	97	4.737	4.737	(0.984)	41968	18.7864	18.78
	32 1,1-Dichloropropene	75	4.917	4.917	(0.886)	42267	18.8783	18.87
	33 1,2-Dichloroethane	62	5.171	5.171	(0.932)	46341	18.9477	18.94
	34 Carbon Tetrachloride	117	4.905	4.905	(0.884)	33206	17.9736	17.97
$	35 1,2-Dichloroethane-d4	65	5.093	5.093	(1.058)	108803	52.4487	52.44
*	36 1,4-Difluorobenzene	114	5.550	5.546	(1.000)	346656	50.0000	
	37 Benzene	78	5.134	5.134	(0.925)	126391	19.3189	19.31
	38 Trichloroethene	130	5.786	5.782	(1.043)	31743	18.3870	18.38
	39 Bromodichloromethane	83	6.274	6.274	(1.130)	34144	16.6004	16.60
	40 Methyl Methacrylate	41	5.824	5.820	(1.210)	12991	19.4872	19.48(a)
	41 2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	11154	31.5730	31.57
	42 1,2-Dichloropropane	63	6.004	6.004	(1.082)	34235	18.5844	18.58
	43 2-Nitropropane	43	6.506	6.502	(1.352)	6265	18.4184	18.41
	44 Dibromomethane	93	6.116	6.116	(1.102)	20038	18.8071	18.80
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	61147	33.7004	33.70
	46 cis-1,3-Dichloropropene	75	6.686	6.686	(1.205)	41140	17.0265	17.02
*	47 Chlorobenzene-d5	117	8.182	8.182	(1.000)	315190	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.846)	345361	54.5625	54.56
	49 Ethyl Methacrylate	69	7.289	7.286	(1.313)	40435	18.0290	18.02(a)
	50 Toluene	91	6.978	6.978	(0.853)	131948	18.7520	18.75
	51 trans-1,3-Dichloropropene	75	7.192	7.192	(1.296)	32329	16.3367	16.33
	52 2-Hexanone	43	7.211	7.211	(0.881)	50656	37.6450	37.64
	53 1,1,2-Trichloroethane	83	7.353	7.349	(0.899)	25931	19.2644	19.26
	54 1,3-Dichloropropane	76	7.496	7.496	(0.916)	52645	18.2526	18.25
	55 Dibromochloromethane	129	7.687	7.687	(0.940)	25887	16.8527	16.85
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	26404	19.3051	19.30
	57 1,2-Dibromoethane	107	7.781	7.781	(0.951)	28084	18.1546	18.15
	58 1-Chlorohexane	55	8.193	8.193	(1.476)	28852	19.6636	19.66
	59 Chlorobenzene	112	8.208	8.208	(1.003)	85629	19.4394	19.43
	60 1,1,1,2-Tetrachloroethane	131	8.279	8.279	(1.012)	27160	17.8330	17.83
	61 Ethylbenzene	106	8.305	8.302	(1.015)	42101	18.7357	18.73
	62 m,p-Xylenes	106	8.407	8.407	(1.027)	108198	38.7480	38.74
	63 o-Xylene	106	8.744	8.744	(1.069)	51669	19.1178	19.11
	64 Styrene	104	8.759	8.759	(1.071)	84900	19.4237	19.42
	66 Bromoform	173	8.916	8.916	(1.090)	14170	15.8738	15.87
	67 Isopropylbenzene	105	9.059	9.059	(1.107)	130643	20.3524	20.35
	68 1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	41307	18.7027	18.70
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	127791	55.8040	55.80
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	164829	50.0000	
	71 1,2,3-Trichloropropane	75	9.359	9.359	(0.920)	38827	18.1138	18.11
	72 trans-1,4-Dichloro-2-butene	53	9.374	9.374	(1.146)	7629	16.0570	16.05(a)
	73 n-Propylbenzene	91	9.411	9.407	(0.926)	150196	20.0448	20.04
	74 Bromobenzene	156	9.314	9.314	(0.916)	36394	19.6402	19.64
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	103836	21.0445	21.04

76	2-Chlorotoluene	91	9.479	9.479 (0.932)	93693	19.2828	19.28
77	4-Chlorotoluene	91	9.572	9.572 (0.941)	108460	19.3832	19.38

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	93122	20.6548	20.65
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	104927	20.5605	20.56
81	sec-Butylbenzene	105	10.019	10.019	(0.985)	125963	21.1328	21.13
82	p-Isopropyltoluene	119	10.142	10.142	(0.997)	106679	21.0703	21.07
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	64943	18.7327	18.73
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	68439	19.8366	19.83
86	Benzyl Chloride	91	10.311	10.307	(1.260)	29218	15.9097	15.90
87	n-Butylbenzene	91	10.491	10.491	(1.032)	96222	20.0313	20.03
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	63649	19.5589	19.55
89	1,2-Dibromo-3-Chloropropane	155	11.166	11.166	(1.098)	4105	16.6601	16.66
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	39359	19.1509	19.15
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	19315	20.4725	20.47
92	Naphthalene	128	12.065	12.065	(1.187)	84940	17.6212	17.62
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	36721	19.3334	19.33
146	Methyl acetate	43	2.709	2.705	(0.563)	33111	18.4987	18.49
138	Freon TF	101	2.330	2.326	(0.484)	24239	20.9066	20.90
141	Cyclohexane	56	4.778	4.778	(0.993)	43884	20.8786	20.87
142	Tetrahydrofuran	42	4.538	4.534	(0.943)	10506	33.8853	33.88
147	Methylcyclohexane	55	5.944	5.944	(1.071)	72850	18.2679	18.26
135	1,4-Dioxane	88	6.165	6.161	(1.281)	7050	391.207	391.20
132	n-Butanol	56	5.820	5.820	(1.210)	17155	374.180	374.18(a)
136	n-Hexane	57	3.335	3.335	(0.693)	30233	20.7105	20.71
139	Diethyl ether	59	2.139	2.139	(0.445)	23144	19.7951	19.79
148	Tert-butyl alcohol	59	2.964	2.963	(0.616)	53137	372.618	372.61
149	Isopropyl alcohol	45	2.562	2.559	(0.533)	42447	369.780	369.77
156	Diisopropyl ether	45	3.616	3.612	(0.751)	106031	20.0315	20.03
162	Butyl acrylate	55	8.733	8.729	(1.067)	51268	16.4773	16.47
164	Dicyclopentadiene	66	10.195	10.198	(1.003)	159246	20.8883	20.88
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	101225	20.0704	20.07
167	Ethanol	45	2.083	2.079	(0.433)	8667	407.988	407.98
172	tert-Butyl formate	59	5.235	5.239	(1.088)	48416	34.8456	34.84
151	4-Methyl-2-pentanol	45	7.215	7.214	(1.300)	164153	346.978	346.97
140	1,3-Butadiene	54	1.397	1.397	(0.290)	15751	20.3530	20.35
182	Epichlorohydrin	57	6.630	6.626	(1.195)	7262	80.1406	80.14
M 94	1,2-Dichloroethylene (total)	96				61517	35.0574	35.05
M 95	Xylenes (total)	106				159867	58.3036	58.30
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	39209	19.5372	19.53
131	Methyl Acrylate	55	4.366	4.362	(0.907)	33768	18.0897	18.08
134	Cyclohexanone	55	9.153	9.153	(0.900)	29033	406.359	406.35(a)
185	Isoprene	39	2.150	2.146	(0.447)	7701	19.4708	19.47
188	Isopropyl acetate	43	5.280	5.280	(0.951)	87260	17.9765	17.97
150	Allyl alcohol	57	3.335	3.335	(0.693)	30233	414.210	414.21
194	Acetaldehyde	44	1.457	1.453	(0.303)	47451	134.709	134.70
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	14396	17.5968	17.59
133	Ethyl Acrylate	55	5.944	5.944	(1.235)	72850	18.2683	18.26
163	Butyl methacrylate	41	9.647	9.647	(0.949)	36422	21.4457	21.44
159	Propylene oxide	43	2.195	2.195	(0.456)	4958	37.4392	37.43
203	2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	30209	18.7044	18.70
204	Tetrahydrothiophene	60	7.672	7.668	(0.938)	27288	18.2633	18.26(A)
205	sec-Butyl Ether	57	7.215	7.214	(0.882)	39634	10.2687	10.26(A)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060603.D
Date : 06-JUN-2024 11:12
Client ID: VLCSW-240606
Sample Info: VLCSW-240606;VLCSW-240606;3;LCS
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060603.D
Inj Date : 06-JUN-2024 11:12
InstruID : VOA9.i
LabSampID : VLCSW-240606

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060604.D Page 1
Report Date: 21-Jun-2024 17:22

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060604.D
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Inj Date : 06-JUN-2024 11:33
Operator : TS Inst ID: VOA9.i
Smp Info : VLCSDW-240606;VLCSDW-240606;3;;LCSD
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240606.b\8260C.m
Meth Date : 21-Jun-2024 17:22 VOA9.i Quant Type: ISTD
Cal Date : 05-JUN-2024 20:24 Cal File: W060506.D
Als bottle: 3 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1	Pentafluorobenzene	168	4.815	4.812	(1.000)	244305	50.0000	
2	Dichlorodifluoromethane	85	1.164	1.157	(0.242)	14512	19.6256	19.62
3	Chloromethane	50	1.295	1.288	(0.269)	56967	18.0555	18.05
4	Propionitrile	54	4.335	4.328	(0.900)	41294	175.377	175.37(a)
5	Vinyl Chloride	62	1.378	1.370	(0.286)	28804	17.3625	17.36
6	Bromomethane	94	1.606	1.599	(0.334)	15002	19.6382	19.63
7	Chloroethane	64	1.696	1.685	(0.352)	21345	17.6743	17.67
8	Trichlorofluoromethane	101	1.891	1.884	(0.393)	38726	18.1033	18.10
9	Acrolein	56	2.262	2.255	(0.470)	2579	30.3345	30.33
10	Acetone	43	2.405	2.401	(0.499)	26969	38.9778	38.97
11	1,1-Dichloroethene	96	2.330	2.322	(0.484)	24445	17.4464	17.44
12	Isobutyl Alcohol	43	5.280	5.280	(1.097)	83201	320.212	320.21(a)
13	Acetonitrile	39	2.667	2.664	(0.554)	36143	180.018	180.01(a)
14	Allyl Chloride	41	2.671	2.664	(0.555)	82537	18.0636	18.06(a)
15	Iodomethane	142	2.465	2.457	(0.512)	19172	62.5973	62.59
16	Acrylonitrile	53	3.065	3.057	(0.636)	23024	36.6230	36.62
17	Methylene Chloride	84	2.791	2.787	(0.580)	31874	18.0365	18.03
18	Methyl tert-butyl ether	73	3.076	3.072	(0.639)	76092	18.2579	18.25
19	Carbon Disulfide	76	2.517	2.510	(0.523)	135406	33.7182	33.71
20	trans-1,2-Dichloroethene	96	3.053	3.050	(0.634)	26982	18.0351	18.03

21 Vinyl Acetate	43	4.339	4.332 (0.901)	31817	33.6298	33.62
22 1,1-Dichloroethane	63	3.511	3.503 (0.729)	52254	17.5928	17.59

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060604.D Page 2
Report Date: 21-Jun-2024 17:22

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	23 Chloroprene	53	3.604	3.601	(0.749)	43763	17.5711	17.57
	24 2-Butanone	43	4.264	4.257	(0.886)	32740	35.8615	35.86
	25 Methacrylonitrile	41	4.493	4.485	(0.933)	31908	30.1281	30.12(a)
	26 2,2-Dichloropropane	77	4.178	4.174	(0.868)	34718	16.7009	16.70
	27 cis-1,2-Dichloroethene	96	4.193	4.189	(0.871)	32516	18.1450	18.14
	28 Chloroform	83	4.572	4.568	(0.949)	53284	16.5486	16.54
	29 Bromochloromethane	128	4.467	4.463	(0.928)	16043	17.9269	17.92
$	30 Dibromofluoromethane	113	4.744	4.740	(0.985)	89561	50.8597	50.85
	31 1,1,1-Trichloroethane	97	4.740	4.737	(0.984)	40295	17.4293	17.42
	32 1,1-Dichloropropene	75	4.920	4.917	(0.887)	38737	16.8273	16.82
	33 1,2-Dichloroethane	62	5.171	5.171	(0.932)	45063	17.8846	17.88
	34 Carbon Tetrachloride	117	4.909	4.905	(0.885)	31594	16.6322	16.63
$	35 1,2-Dichloroethane-d4	65	5.093	5.093	(1.058)	110136	51.3011	51.30
*	36 1,4-Difluorobenzene	114	5.550	5.546	(1.000)	356428	50.0000	
	37 Benzene	78	5.138	5.134	(0.926)	119511	17.7767	17.77
	38 Trichloroethene	130	5.786	5.782	(1.043)	30397	17.1246	17.12
	39 Bromodichloromethane	83	6.274	6.274	(1.130)	34205	16.1741	16.17(M)
	40 Methyl Methacrylate	41	5.820	5.820	(1.209)	12059	17.7152	17.71(a)
	41 2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	10504	29.4485	29.44
	42 1,2-Dichloropropane	63	6.007	6.004	(1.082)	32356	17.0770	17.07
	43 2-Nitropropane	43	6.506	6.502	(1.351)	6020	17.1014	17.10
	44 Dibromomethane	93	6.116	6.116	(1.102)	19390	17.6892	17.68
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	60830	33.2008	33.20
	46 cis-1,3-Dichloropropene	75	6.690	6.686	(1.205)	40176	16.2951	16.29
*	47 Chlorobenzene-d5	117	8.182	8.182	(1.000)	318679	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.846)	348747	54.4942	54.49
	49 Ethyl Methacrylate	69	7.289	7.286	(1.313)	40482	17.5551	17.55(a)
	50 Toluene	91	6.978	6.978	(0.853)	123944	17.4217	17.42
	51 trans-1,3-Dichloropropene	75	7.196	7.192	(1.296)	31281	15.5282	15.52
	52 2-Hexanone	43	7.214	7.211	(0.882)	49390	36.2508	36.25
	53 1,1,2-Trichloroethane	83	7.353	7.349	(0.899)	24701	18.1375	18.13
	54 1,3-Dichloropropane	76	7.496	7.496	(0.916)	52067	17.8535	17.85
	55 Dibromochloromethane	129	7.691	7.687	(0.940)	25225	16.3107	16.31
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	24627	17.8087	17.80
	57 1,2-Dibromoethane	107	7.780	7.781	(0.951)	27287	17.4689	17.46
	58 1-Chlorohexane	55	8.193	8.193	(1.476)	26808	17.7568	17.75
	59 Chlorobenzene	112	8.208	8.208	(1.003)	82105	18.4282	18.42
	60 1,1,1,2-Tetrachloroethane	131	8.279	8.279	(1.012)	25623	16.6396	16.63
	61 Ethylbenzene	106	8.305	8.302	(1.015)	40489	17.8211	17.82
	62 m,p-Xylenes	106	8.407	8.407	(1.027)	103641	36.7097	36.70
	63 o-Xylene	106	8.744	8.744	(1.069)	49637	18.1649	18.16
	64 Styrene	104	8.759	8.759	(1.071)	82090	18.5752	18.57
	66 Bromoform	173	8.916	8.916	(1.090)	13455	15.1220	15.12
	67 Isopropylbenzene	105	9.059	9.059	(1.107)	125343	19.3129	19.31
	68 1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	40475	17.8212	17.82
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	128404	55.4578	55.45
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	169379	50.0000	
	71 1,2,3-Trichloropropane	75	9.359	9.359	(0.920)	37890	17.2658	17.26
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.374	(1.146)	8173	16.9726	16.97(a)
	73 n-Propylbenzene	91	9.411	9.407	(0.926)	141841	18.4212	18.42
	74 Bromobenzene	156	9.314	9.314	(0.916)	34743	18.2669	18.26
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	97551	19.2396	19.23

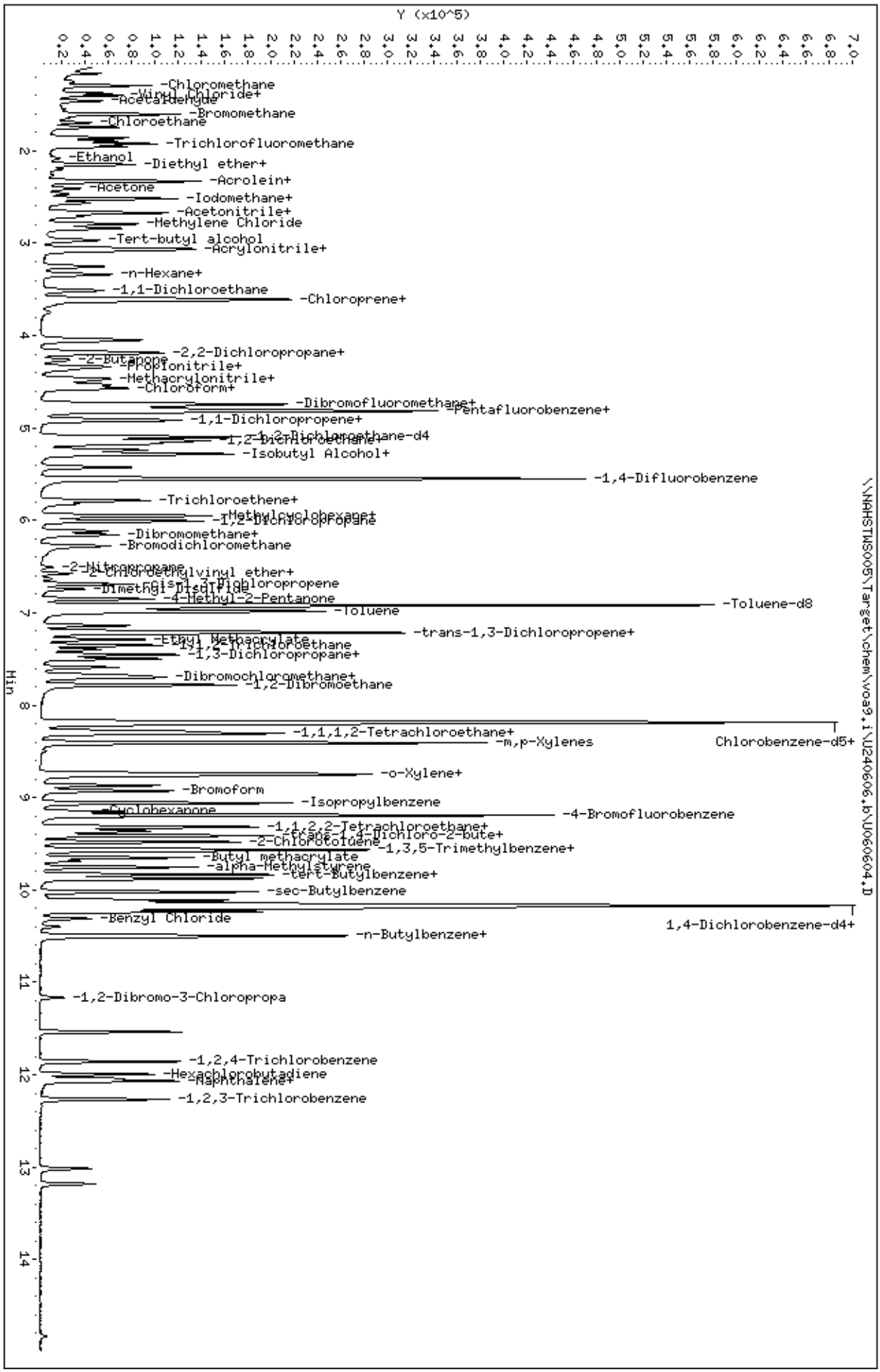
76	2-Chlorotoluene	91	9.479	9.479 (0.932)	89978	18.0208	18.02
77	4-Chlorotoluene	91	9.572	9.572 (0.941)	103862	18.0629	18.06

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060604.D Page 3
Report Date: 21-Jun-2024 17:22

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	86373	18.6432	18.64
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	96914	18.4802	18.48
81	sec-Butylbenzene	105	10.018	10.019	(0.985)	119362	19.4874	19.48
82	p-Isopropyltoluene	119	10.146	10.142	(0.998)	99962	19.2132	19.21
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	62297	17.4867	17.48
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	65651	18.5073	18.50
86	Benzyl Chloride	91	10.311	10.307	(1.260)	28050	15.1807	15.18
87	n-Butylbenzene	91	10.491	10.491	(1.032)	90820	18.5389	18.53
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	61537	18.4007	18.40
89	1,2-Dibromo-3-Chloropropane	155	11.166	11.166	(1.098)	3916	15.5840	15.58
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	36284	17.3609	17.36
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	17675	18.2310	18.23
92	Naphthalene	128	12.065	12.065	(1.187)	80821	16.4564	16.45
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	33990	17.4148	17.41
146	Methyl acetate	43	2.712	2.705	(0.563)	32138	17.2551	17.25
138	Freon TF	101	2.330	2.326	(0.484)	22980	19.1524	19.15
141	Cyclohexane	56	4.778	4.778	(0.992)	42003	19.3284	19.32
142	Tetrahydrofuran	42	4.542	4.534	(0.943)	10842	33.7872	33.78
147	Methylcyclohexane	55	5.947	5.944	(1.072)	69579	16.9693	16.96
135	1,4-Dioxane	88	6.165	6.161	(1.280)	7335	393.296	393.29
132	n-Butanol	56	5.824	5.820	(1.209)	16469	351.139	351.13(a)
136	n-Hexane	57	3.338	3.335	(0.693)	28723	19.0653	19.06
139	Diethyl ether	59	2.142	2.139	(0.445)	22451	18.5501	18.55
148	Tert-butyl alcohol	59	2.967	2.963	(0.616)	52471	355.943	355.94
149	Isopropyl alcohol	45	2.562	2.559	(0.532)	41955	353.508	353.50
156	Diisopropyl ether	45	3.619	3.612	(0.752)	103551	18.9167	18.91
162	Butyl acrylate	55	8.733	8.729	(1.067)	51624	16.4101	16.41
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	149127	19.1205	19.12
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	95857	18.5653	18.56
167	Ethanol	45	2.082	2.079	(0.433)	8443	383.393	383.39
172	tert-Butyl formate	59	5.239	5.239	(1.088)	48211	33.5487	33.54
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	159232	330.539	330.53
140	1,3-Butadiene	54	1.400	1.397	(0.291)	15093	18.8818	18.88
182	Epichlorohydrin	57	6.630	6.626	(1.195)	5892	63.8175	63.81
M 94	1,2-Dichloroethylene (total)	96				59498	32.7634	32.76
M 95	Xylenes (total)	106				153278	54.3680	54.36
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	36468	17.6833	17.68
131	Methyl Acrylate	55	4.369	4.362	(0.907)	34146	17.6926	17.69
134	Cyclohexanone	55	9.153	9.153	(0.900)	29439	400.821	400.82(a)
185	Isoprene	39	2.154	2.146	(0.447)	6765	16.5275	16.52
188	Isopropyl acetate	43	5.280	5.280	(0.951)	83823	16.8207	16.82
150	Allyl alcohol	57	3.338	3.335	(0.693)	28723	381.307	381.30
194	Acetaldehyde	44	1.460	1.453	(0.303)	48694	133.586	133.58
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	14129	17.1339	17.13
133	Ethyl Acrylate	55	5.947	5.944	(1.235)	69579	16.8597	16.85
163	Butyl methacrylate	41	9.647	9.647	(0.949)	41014	23.5419	23.54
159	Propylene oxide	43	2.199	2.195	(0.457)	5855	42.7218	42.72
203	2-Ethylhexyl Acrylate	55	12.043	12.039	(1.184)	27291	16.6313	16.63
204	Tetrahydrothiophene	60	7.672	7.668	(0.938)	26705	17.6775	17.67(A)
205	sec-Butyl Ether	57	7.214	7.214	(0.882)	38884	9.96410	9.96(A)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060604.D
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Sample Info: VLCSDW-240606;VLCSDW-240606;3;;LCSD
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Column phase: DB624

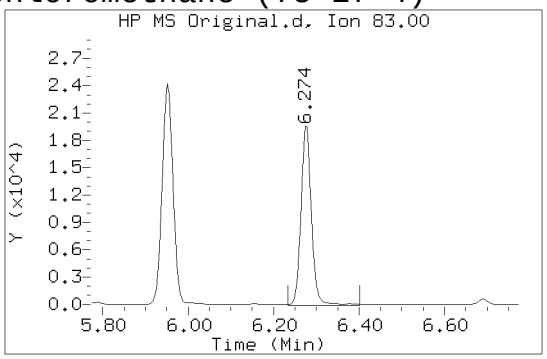
Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

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Inj Date : 06-JUN-2024 11:33
InstruID : VOA9.i
LabSampID : VLCSDW-240606

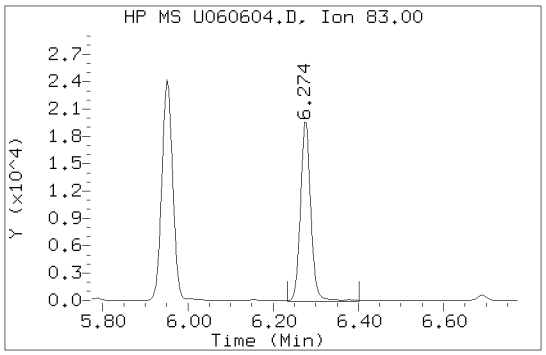
Bromodichloromethane (75-27-4)

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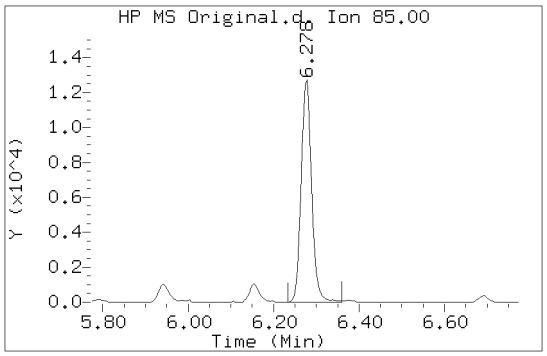
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HEIGHT
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21-Jun-2024
17:22
RUCHA
PATEL



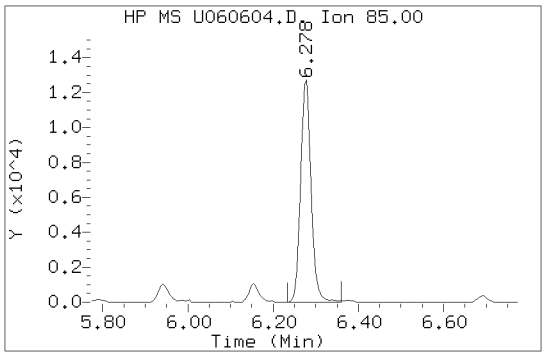
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21-Jun-2024
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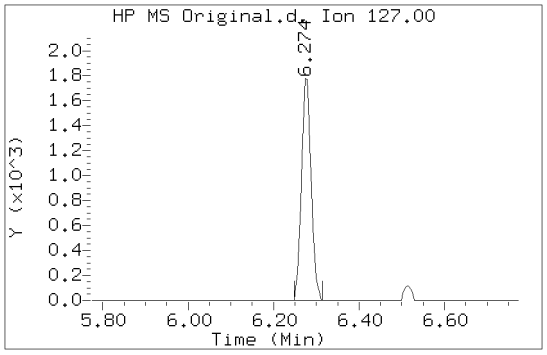
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PATEL



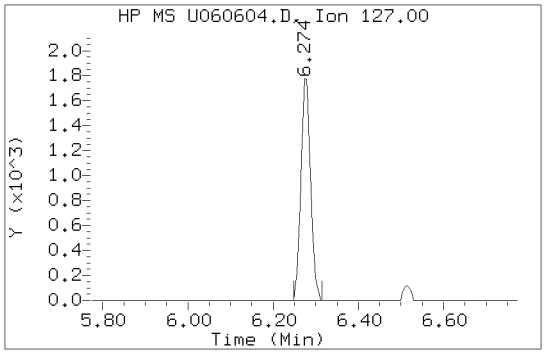
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AFTER
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Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060606.D Page 1
Report Date: 21-Jun-2024 17:22

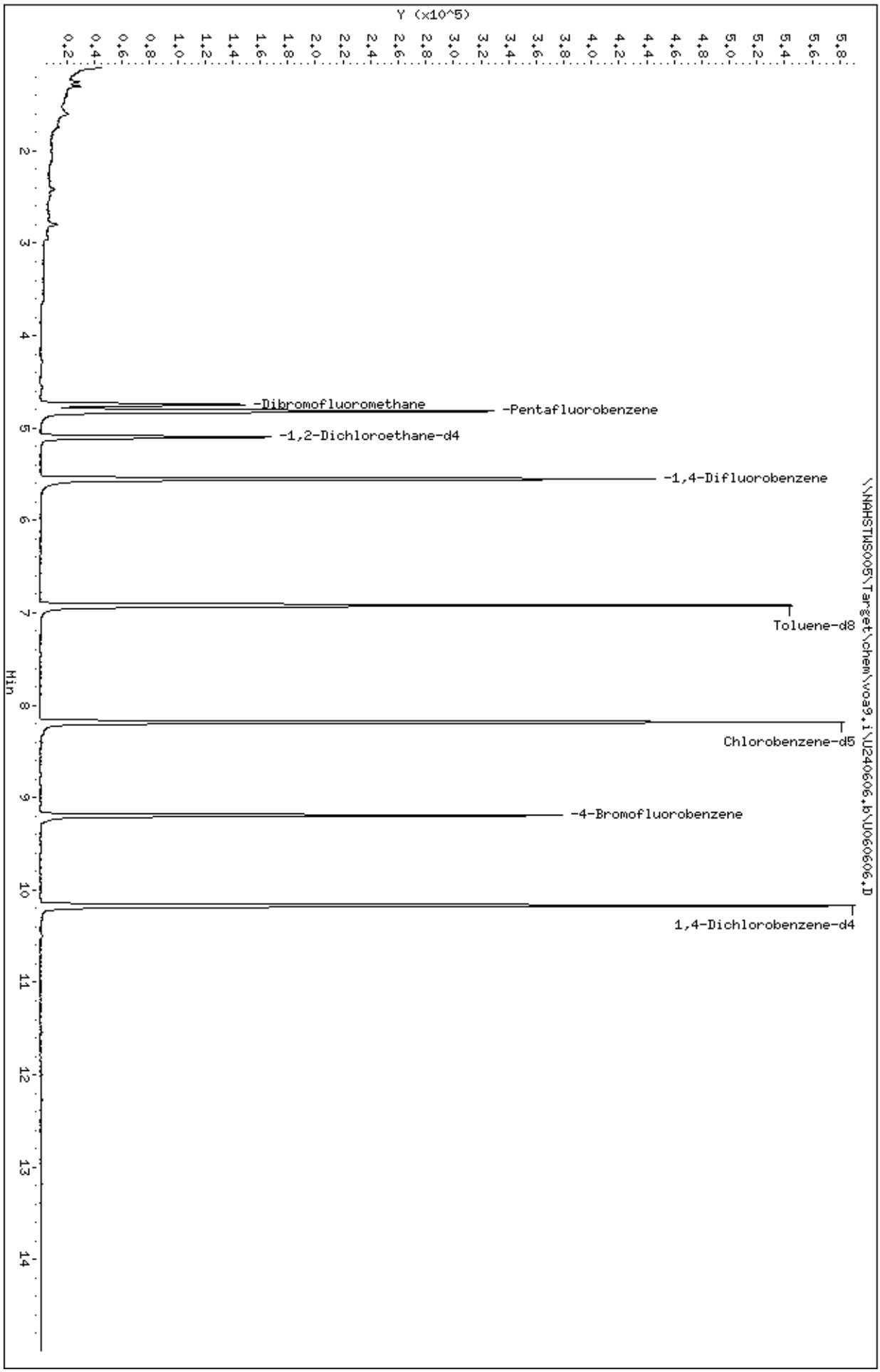
ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060606.D
Lab Smp Id: VBLKW-240606 Client Smp ID: VBLKW-240606
Inj Date : 06-JUN-2024 12:16
Operator : TS Inst ID: VOA9.i
Smp Info : VBLKW-240606;VBLKW-240606;3;;BLANK
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240606.b\8260C.m
Meth Date : 21-Jun-2024 17:22 VOA9.i Quant Type: ISTD
Cal Date : 05-JUN-2024 20:24 Cal File: W060506.D
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.815	4.812	(1.000)	235132	50.0000	
$ 30 Dibromofluoromethane	113	4.748	4.740	(0.986)	86409	50.9841	50.98
$ 35 1,2-Dichloroethane-d4	65	5.096	5.093	(1.058)	111348	53.8890	53.88
* 36 1,4-Difluorobenzene	114	5.554	5.546	(1.000)	345676	50.0000	
* 47 Chlorobenzene-d5	117	8.185	8.182	(1.000)	308803	50.0000	
$ 48 Toluene-d8	98	6.922	6.918	(0.846)	336409	54.2474	54.24
$ 69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	116935	52.1196	52.11
* 70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	156761	50.0000	


Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060606.D
Date : 06-JUN-2024 12:16
Client ID: VBLKW-240606
Sample Info: VBLKW-240606;VBLKW-240606;3;;BLANK
Purge Volume: 5.0
Column phase: DB624
Instrument: VOA9.i
Operator: TS
Column diameter: 0.18
Y (x10^5)
Min
-Dibromofluoromethane
-Pentafluorobenzene
-1,2-Dichloroethane-d4
-1,4-Difluorobenzene
Toluene-d8
Chlorobenzene-d5
-4-Bromofluorobenzene
1,4-Dichlorobenzene-d4
\\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060606.D

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060606.D
Inj Date : 06-JUN-2024 12:16
InstruID : VOA9.i
LabSampID : VBLKW-240606

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060607.D Page 1
Report Date: 22-Jun-2024 12:41

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060607.D
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Inj Date : 06-JUN-2024 12:37
Operator : TS   Inst ID: VOA9.i
Smp Info : HS24051959-07
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240606.b\8260C.m
Meth Date : 22-Jun-2024 12:40 r.patel   Quant Type: ISTD
Cal Date : 05-JUN-2024 20:24   Cal File: W060506.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

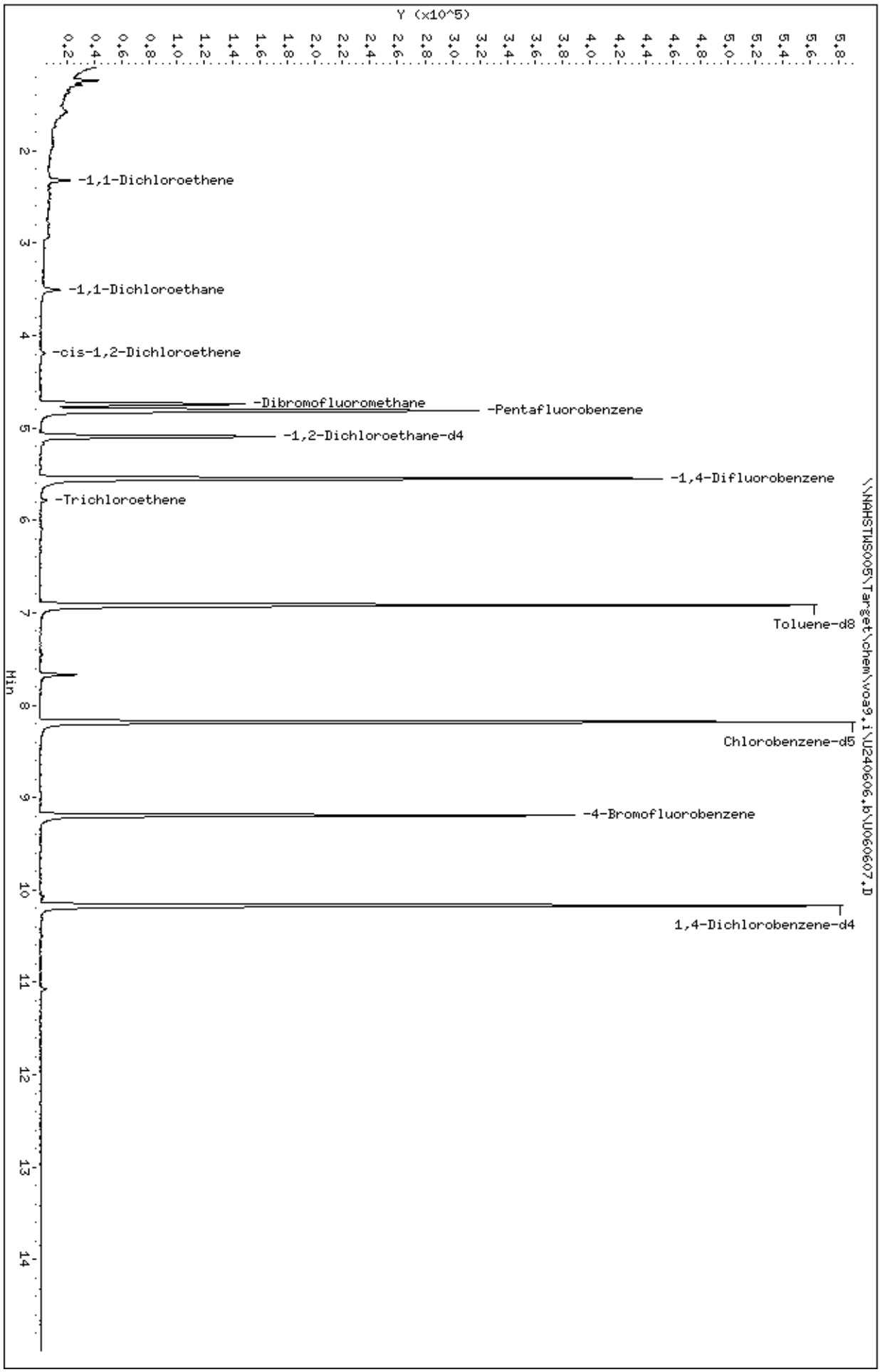
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
*	1 Pentafluorobenzene	168	4.811	4.815	(1.000)	232699	50.0000	
	11 1,1-Dichloroethene	96	2.322	2.330	(0.483)	4749	3.55841	3.55(H)
	22 1,1-Dichloroethane	63	3.503	3.511	(0.728)	12013	4.00414	4.00
	27 cis-1,2-Dichloroethene	96	4.197	4.193	(0.872)	1569	1.08118	1.08
$	30 Dibromofluoromethane	113	4.740	4.744	(0.985)	86882	51.7992	51.79
$	35 1,2-Dichloroethane-d4	65	5.089	5.096	(1.058)	113908	55.7044	55.70
*	36 1,4-Difluorobenzene	114	5.546	5.550	(1.000)	344096	50.0000	
	38 Trichloroethene	130	5.786	5.786	(1.043)	1322	0.77146	0.77(aH)
*	47 Chlorobenzene-d5	117	8.181	8.182	(1.000)	311401	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.846)	339439	54.2794	54.27
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	119112	52.6470	52.64
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	151170	50.0000	
M	94 1,2-Dichloroethylene (total)	96				1569	0.90708	0.90(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
H - Operator selected an alternate compound hit.



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060607.D
Date : 06-JUN-2024 12:37
Client ID:
Sample Info: HS24051959-07
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060607.D

Date : 06-JUN-2024 12:37

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Instrument: VOA9.i

Sample Info: HS24051959-07

Purge Volume: 5.0

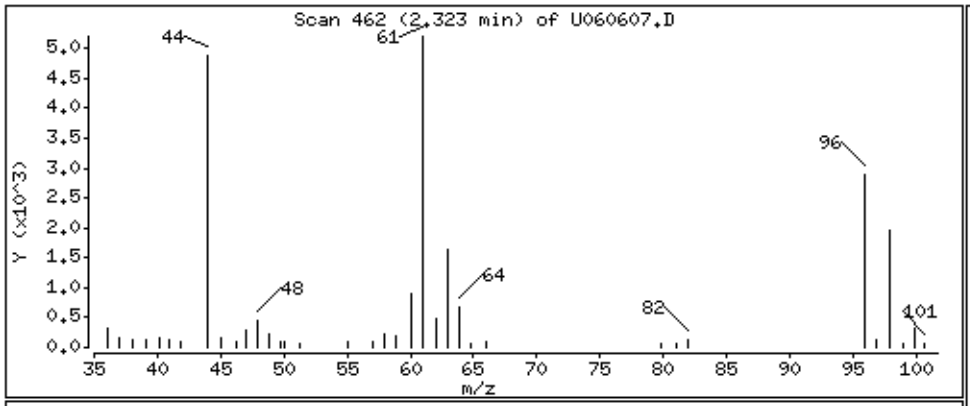
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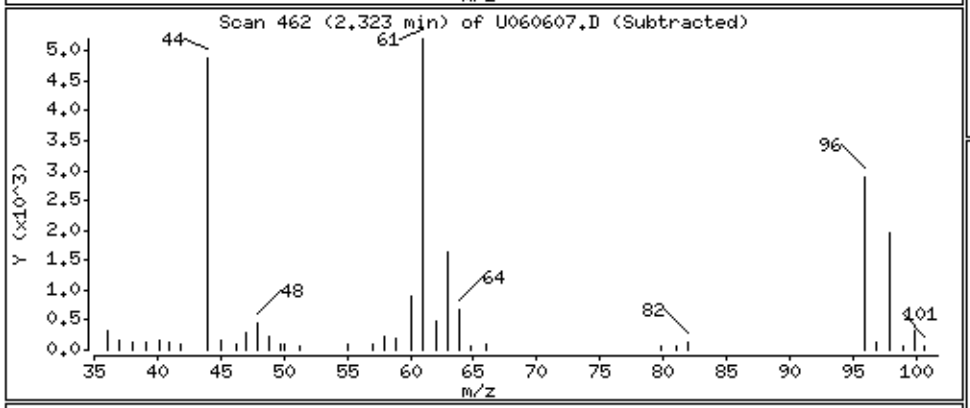
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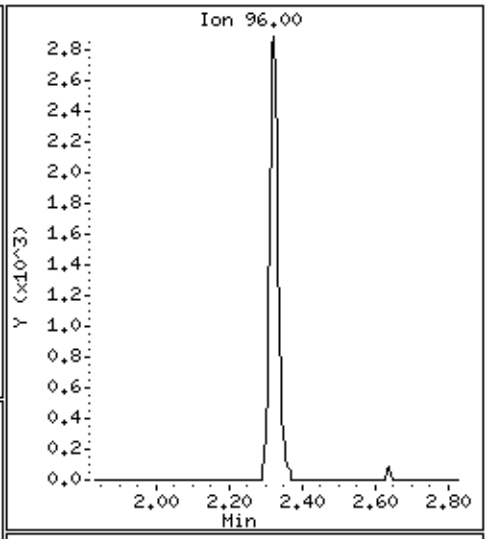
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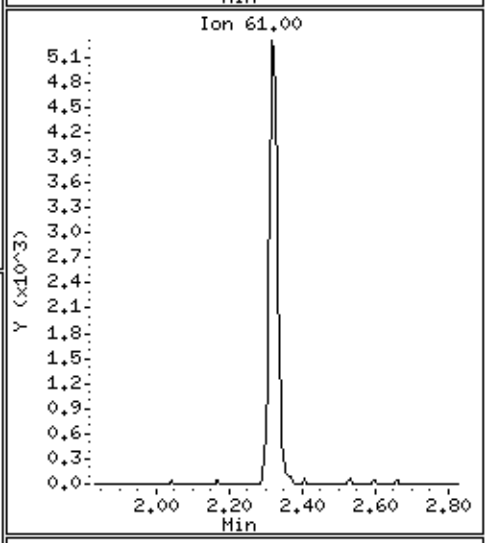
11 1,1-Dichloroethene

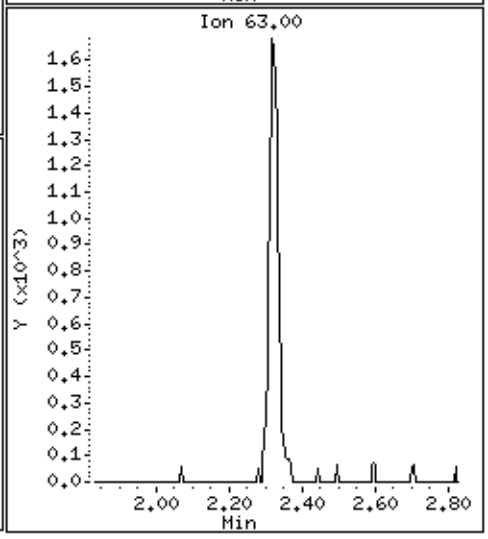
Concentration: 3.55 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060607.D Page 3

Date : 06-JUN-2024 12:37

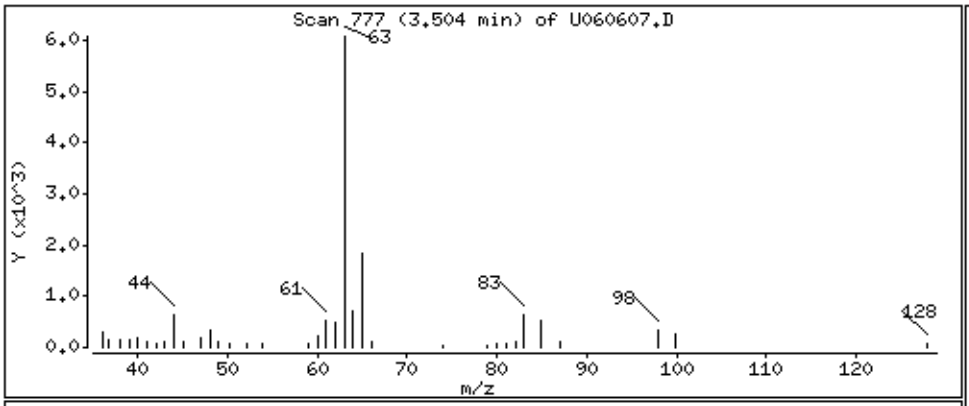
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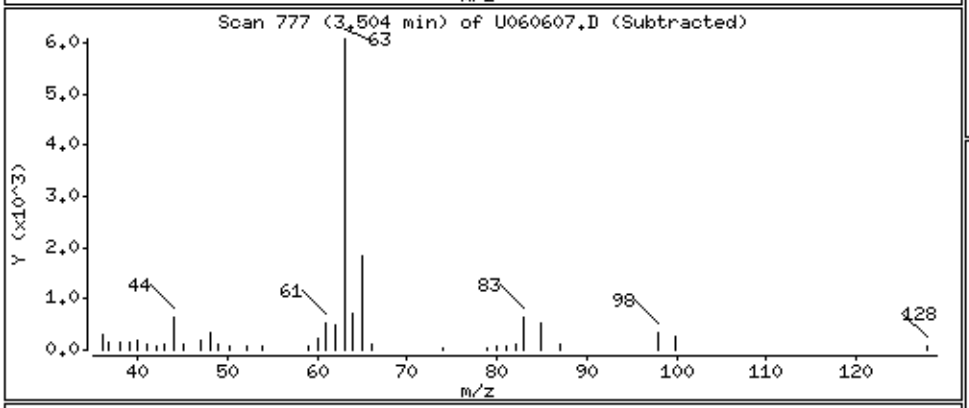
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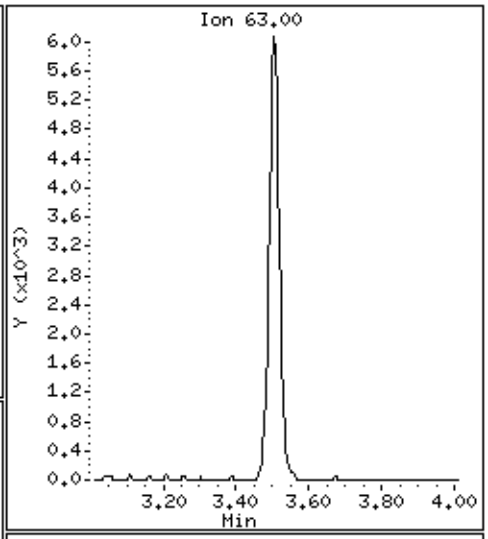
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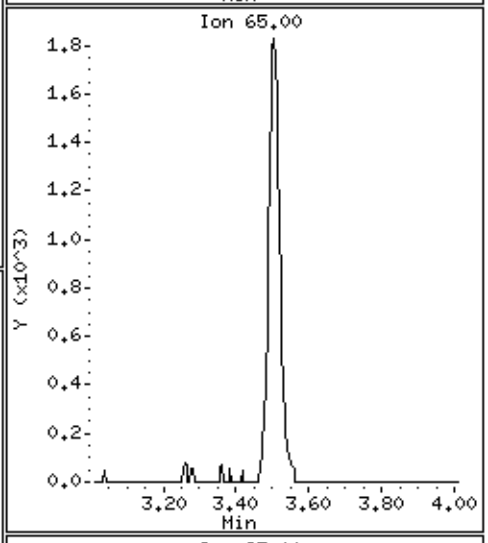
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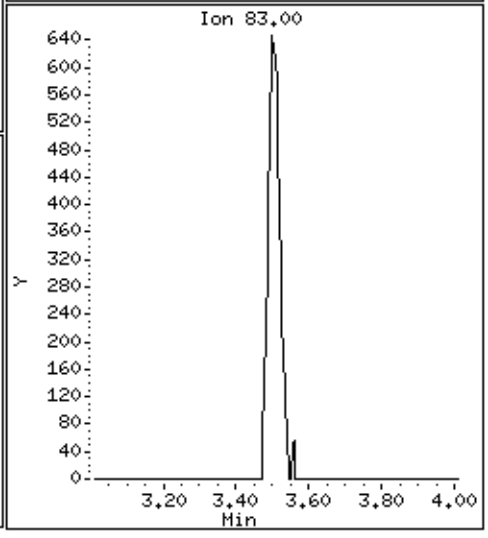
22 1,1-Dichloroethane Concentration: 4.00 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060607.D

Date : 06-JUN-2024 12:37

Client ID:

Instrument: VOA9.i

Sample Info: HS24051959-07

Purge Volume: 5.0

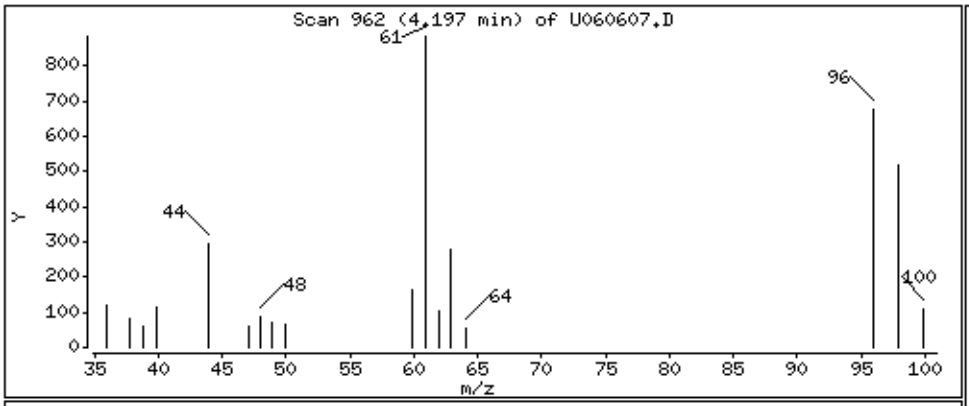
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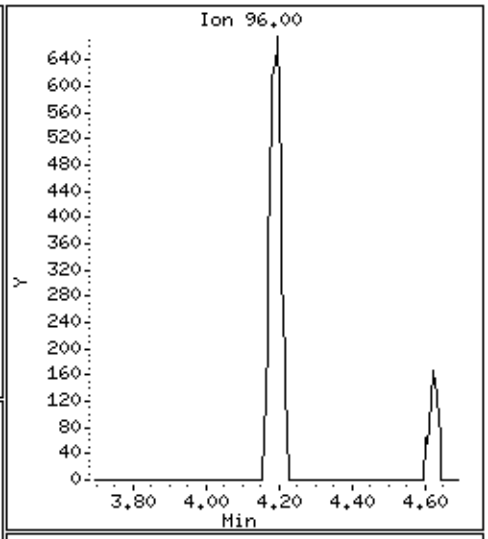
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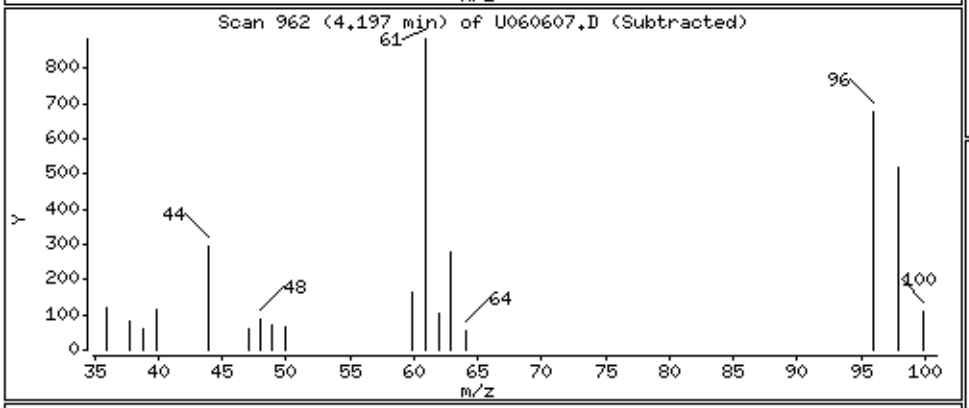
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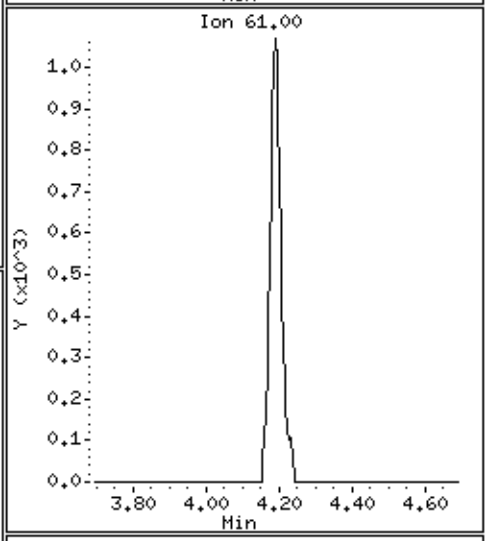
27 cis-1,2-Dichloroethene

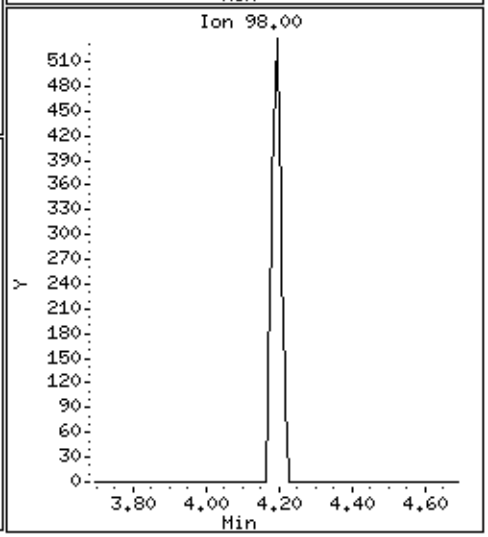
Concentration: 1.08 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060607.D

Date : 06-JUN-2024 12:37

Client ID:

Instrument: VOA9.i

Sample Info: HS24051959-07

Purge Volume: 5.0

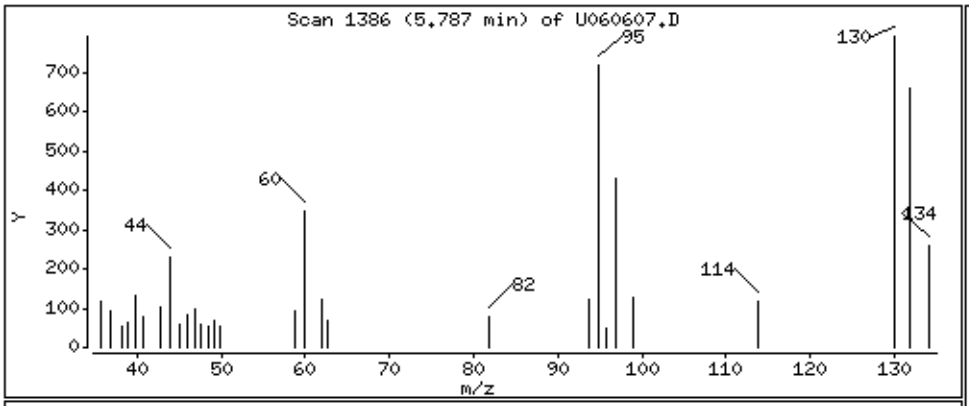
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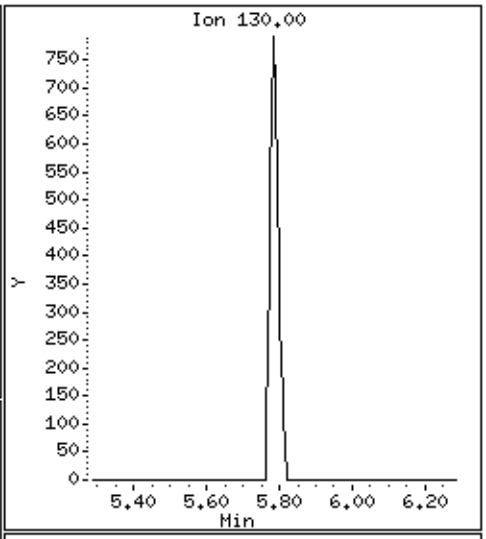
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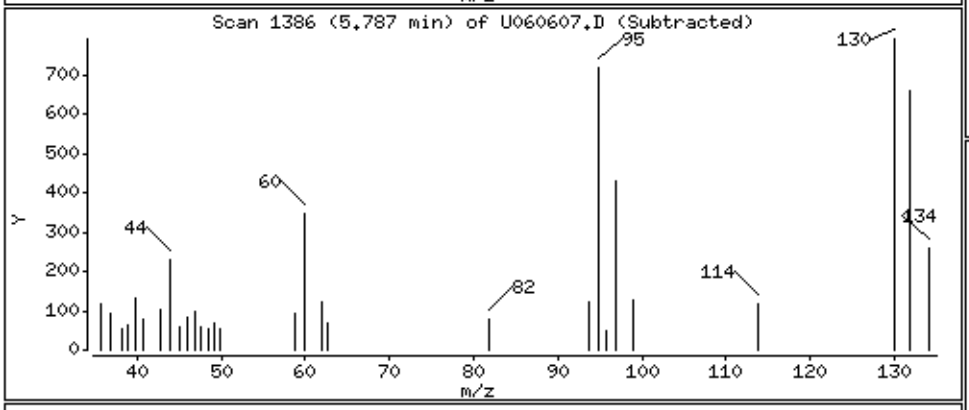
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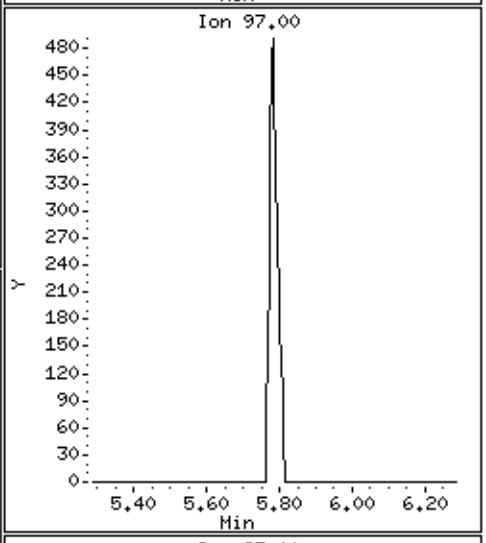
38 Trichloroethene

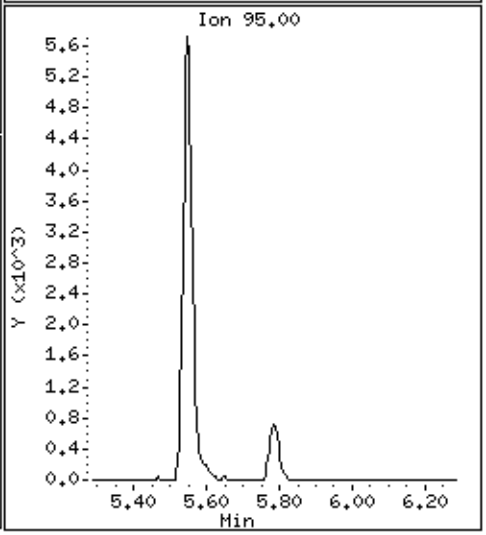
Concentration: 0.77 ug/l











Data File : \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060607.D
Inj Date : 06-JUN-2024 12:37
InstruID : VOA9.i
LabSampID : HS24051959-07

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060608.D Page 1
Report Date: 21-Jun-2024 17:22

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060608.D
Lab Smp Id: HS24051959-07MS Client Smp ID: HS24051959-07MS
Inj Date : 06-JUN-2024 12:59
Operator : TS Inst ID: VOA9.i
Smp Info : HS24051959-07MS;HS24051959-07MS;3;;MS
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240606.b\8260C.m
Meth Date : 21-Jun-2024 17:22 VOA9.i Quant Type: ISTD
Cal Date : 05-JUN-2024 20:24 Cal File: W060506.D
Als bottle: 7 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1	Pentafluorobenzene	168	4.811	4.812	(1.000)	241452	50.0000	
2	Dichlorodifluoromethane	85	1.156	1.157	(0.240)	14316	19.5908	19.59
3	Chloromethane	50	1.291	1.288	(0.268)	53921	17.1406	17.14
4	Propionitrile	54	4.332	4.328	(0.900)	39985	171.854	171.85(a)
5	Vinyl Chloride	62	1.370	1.370	(0.285)	29082	17.7372	17.73
6	Bromomethane	94	1.599	1.599	(0.332)	12766	16.8313	16.83
7	Chloroethane	64	1.689	1.685	(0.351)	19644	16.4455	16.44
8	Trichlorofluoromethane	101	1.887	1.884	(0.392)	37354	17.6683	17.66
9	Acrolein	56	2.259	2.255	(0.469)	2181	25.3463	25.34
10	Acetone	43	2.401	2.401	(0.499)	21443	30.5187	30.51
11	1,1-Dichloroethene	96	2.326	2.322	(0.483)	29400	21.2307	21.23
12	Isobutyl Alcohol	43	5.280	5.280	(1.097)	79263	308.661	308.66(a)
13	Acetonitrile	39	2.663	2.664	(0.554)	37397	188.382	188.38(a)
14	Allyl Chloride	41	2.667	2.664	(0.554)	82814	18.3372	18.33(a)
15	Iodomethane	142	2.461	2.457	(0.512)	13318	44.6091	44.60
16	Acrylonitrile	53	3.061	3.057	(0.636)	21252	34.1061	34.10
17	Methylene Chloride	84	2.787	2.787	(0.579)	27750	15.7227	15.72
18	Methyl tert-butyl ether	73	3.076	3.072	(0.639)	72957	17.7111	17.71
19	Carbon Disulfide	76	2.513	2.510	(0.522)	120939	30.4715	30.47
20	trans-1,2-Dichloroethene	96	3.050	3.050	(0.634)	24097	16.3041	16.30

21 Vinyl Acetate	43	4.335	4.332 (0.901)	28877	30.9197	30.91
22 1,1-Dichloroethane	63	3.507	3.503 (0.729)	60543	20.6793	20.67

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
23	Chloroprene	53	3.601	3.601	(0.748)	38700	15.7219	15.72
24	2-Butanone	43	4.260	4.257	(0.885)	28837	31.8760	31.87
25	Methacrylonitrile	41	4.489	4.485	(0.933)	18112	17.9296	17.92(a)
26	2,2-Dichloropropane	77	4.174	4.174	(0.868)	32249	15.6965	15.69
27	cis-1,2-Dichloroethene	96	4.189	4.189	(0.871)	29647	16.7527	16.75
28	Chloroform	83	4.568	4.568	(0.949)	48162	15.1346	15.13
29	Bromochloromethane	128	4.463	4.463	(0.928)	14047	15.8229	15.82
$ 30	Dibromofluoromethane	113	4.744	4.740	(0.986)	90132	51.7888	51.78
31	1,1,1-Trichloroethane	97	4.736	4.737	(0.984)	37629	16.4684	16.46
32	1,1-Dichloropropene	75	4.916	4.917	(0.886)	36780	15.9564	15.95
33	1,2-Dichloroethane	62	5.171	5.171	(0.932)	39846	15.7172	15.71
34	Carbon Tetrachloride	117	4.905	4.905	(0.884)	30133	15.8425	15.84
$ 35	1,2-Dichloroethane-d4	65	5.093	5.093	(1.058)	112513	53.0275	53.02
* 36	1,4-Difluorobenzene	114	5.550	5.546	(1.000)	356892	50.0000	
37	Benzene	78	5.134	5.134	(0.925)	108362	16.1093	16.10
38	Trichloroethene	130	5.782	5.782	(1.042)	29292	16.4806	16.48
39	Bromodichloromethane	83	6.273	6.274	(1.130)	29294	13.8339	13.83
40	Methyl Methacrylate	41	5.824	5.820	(1.210)	11047	16.5877	16.58(a)
42	1,2-Dichloropropane	63	6.003	6.004	(1.082)	29247	15.4091	15.40
43	2-Nitropropane	43	6.502	6.502	(1.351)	5734	16.4814	16.48
44	Dibromomethane	93	6.116	6.116	(1.102)	16776	15.2597	15.25
45	4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	57300	31.0919	31.09
46	cis-1,3-Dichloropropene	75	6.690	6.686	(1.205)	32902	13.7751	13.77
* 47	Chlorobenzene-d5	117	8.181	8.182	(1.000)	322426	50.0000	
$ 48	Toluene-d8	98	6.918	6.918	(0.846)	352174	54.3902	54.39
49	Ethyl Methacrylate	69	7.289	7.286	(1.313)	37024	16.0347	16.03(a)
50	Toluene	91	6.978	6.978	(0.853)	115659	16.0682	16.06
51	trans-1,3-Dichloropropene	75	7.196	7.192	(1.296)	26307	13.4617	13.46
52	2-Hexanone	43	7.214	7.211	(0.882)	49241	35.7003	35.70
53	1,1,2-Trichloroethane	83	7.353	7.349	(0.899)	21959	15.9111	15.91
54	1,3-Dichloropropane	76	7.495	7.496	(0.916)	45709	15.4848	15.48
55	Dibromochloromethane	129	7.690	7.687	(0.940)	21561	14.0738	14.07
56	Tetrachloroethene	164	7.454	7.454	(0.911)	25490	18.2186	18.21
57	1,2-Dibromoethane	107	7.780	7.781	(0.951)	23435	14.9165	14.91
58	1-Chlorohexane	55	8.193	8.193	(1.476)	27394	18.1241	18.12
59	Chlorobenzene	112	8.208	8.208	(1.003)	73951	16.3900	16.39
60	1,1,1,2-Tetrachloroethane	131	8.283	8.279	(1.012)	23770	15.2569	15.25
61	Ethylbenzene	106	8.305	8.302	(1.015)	38594	16.7896	16.78
62	m,p-Xylenes	106	8.406	8.407	(1.027)	98782	34.5820	34.58
63	o-Xylene	106	8.744	8.744	(1.069)	47947	17.3425	17.34
64	Styrene	104	8.759	8.759	(1.071)	74157	16.5851	16.58
66	Bromoform	173	8.916	8.916	(1.090)	11914	13.6739	13.67
67	Isopropylbenzene	105	9.059	9.059	(1.107)	123449	18.8000	18.80
68	1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	35995	15.7188	15.71
$ 69	4-Bromofluorobenzene	95	9.190	9.190	(1.123)	129723	55.3764	55.37
* 70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	170439	50.0000	
71	1,2,3-Trichloropropane	75	9.359	9.359	(0.920)	34481	15.7362	15.73
72	trans-1,4-Dichloro-2-butene	53	9.374	9.374	(1.146)	6183	12.8644	12.86(a)
73	n-Propylbenzene	91	9.411	9.407	(0.926)	146894	18.9588	18.95
74	Bromobenzene	156	9.314	9.314	(0.916)	32200	16.8483	16.84
75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	95379	18.6943	18.69
76	2-Chlorotoluene	91	9.479	9.479	(0.932)	86835	17.2831	17.28

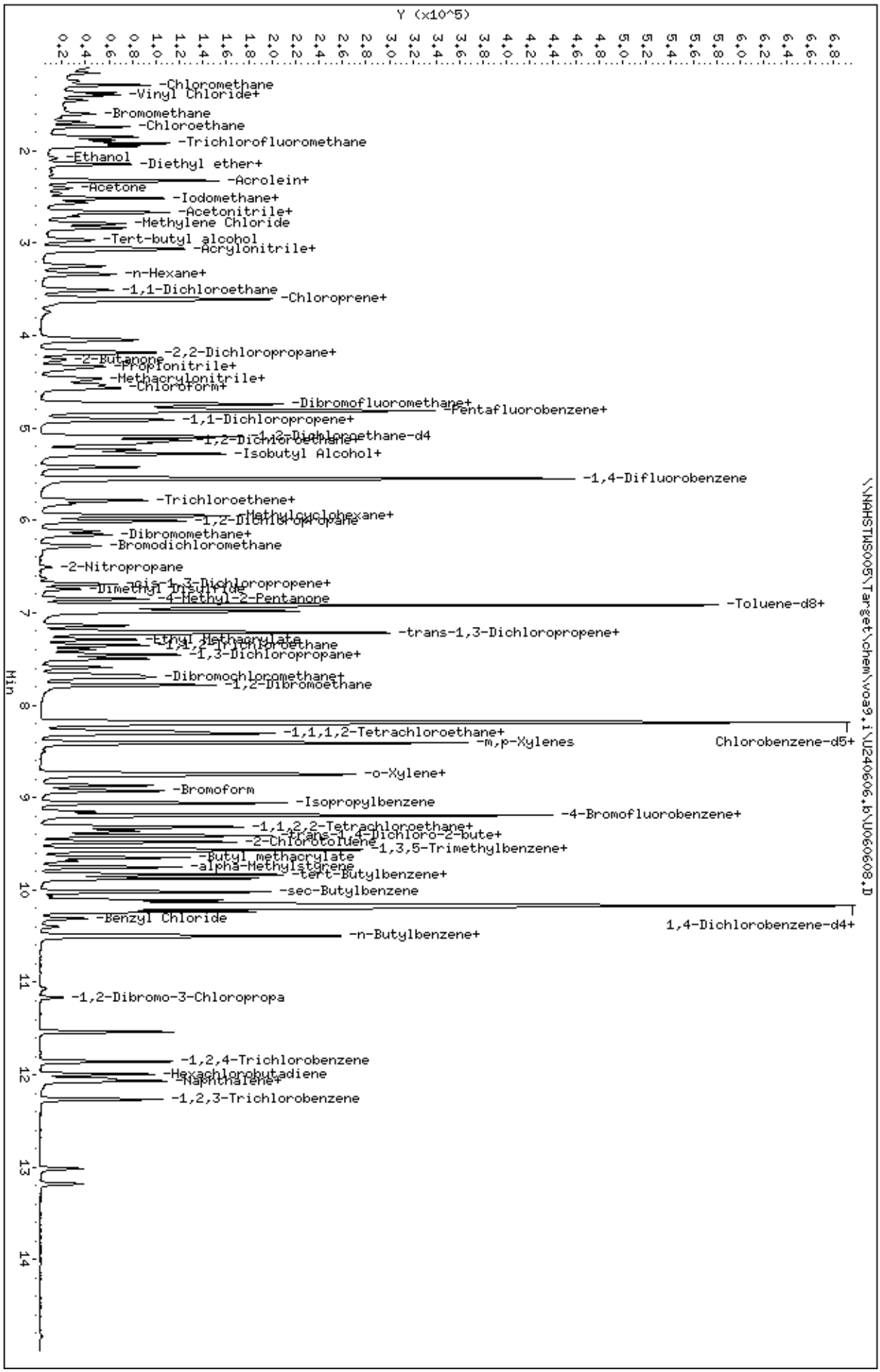
77	4-Chlorotoluene	91	9.572	9.572 (0.941)	101246	17.4984	17.49
78	tert-Butylbenzene	119	9.835	9.835 (0.967)	89854	19.2740	19.27

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060608.D Page 3
Report Date: 21-Jun-2024 17:22

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	93883	17.7909	17.79
81	sec-Butylbenzene	105	10.018	10.019	(0.985)	123446	20.0288	20.02
82	p-Isopropyltoluene	119	10.146	10.142	(0.998)	101999	19.4828	19.48
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	58449	16.3046	16.30
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	63153	17.6858	17.68
86	Benzyl Chloride	91	10.307	10.307	(1.260)	25906	13.9834	13.98
87	n-Butylbenzene	91	10.491	10.491	(1.032)	89967	18.2773	18.27
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	58531	17.3919	17.39
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.166	(1.098)	3911	15.4795	15.47
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	34831	16.6428	16.64
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	17192	17.6225	17.62
92	Naphthalene	128	12.065	12.065	(1.187)	71270	14.6552	14.65
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	31868	16.2261	16.22
146	Methyl acetate	43	2.708	2.705	(0.563)	30100	16.2722	16.27
138	Freon TF	101	2.326	2.326	(0.483)	23436	19.7632	19.76
141	Cyclohexane	56	4.778	4.778	(0.993)	42372	19.7235	19.72
142	Tetrahydrofuran	42	4.538	4.534	(0.943)	9930	31.2404	31.24
147	Methylcyclohexane	55	5.944	5.944	(1.071)	72562	17.6738	17.67
135	1,4-Dioxane	88	6.165	6.161	(1.281)	6555	355.640	355.63
132	n-Butanol	56	5.824	5.820	(1.210)	14606	320.820	320.82(a)
136	n-Hexane	57	3.334	3.335	(0.693)	30180	20.2286	20.22
139	Diethyl ether	59	2.139	2.139	(0.445)	21819	18.2396	18.23
148	Tert-butyl alcohol	59	2.963	2.963	(0.616)	48806	335.509	335.50
149	Isopropyl alcohol	45	2.562	2.559	(0.533)	39900	340.450	340.45
156	Diisopropyl ether	45	3.616	3.612	(0.751)	102191	18.8892	18.88
162	Butyl acrylate	55	8.733	8.729	(1.067)	48125	15.1201	15.12
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	152951	19.4704	19.47
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	92019	17.7520	17.75
167	Ethanol	45	2.079	2.079	(0.432)	7694	352.649	352.64
172	tert-Butyl formate	59	5.235	5.239	(1.088)	43317	30.5490	30.54
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	148695	312.066	312.06
140	1,3-Butadiene	54	1.396	1.397	(0.290)	13773	17.4721	17.47
182	Epichlorohydrin	57	6.630	6.626	(1.195)	4073	44.6995	44.69
M 94	1,2-Dichloroethylene (total)	96				53744	29.9446	29.94
M 95	Xylenes (total)	106				146729	51.9774	51.97
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	33060	15.9310	15.93
131	Methyl Acrylate	55	4.365	4.362	(0.907)	31877	16.7536	16.75
189	n-Butyl acetate	43	7.672	7.589	(0.938)	3759	1.55884	1.55(a)
134	Cyclohexanone	55	9.152	9.153	(0.900)	18796	249.198	249.19(a)
185	Isoprene	39	2.146	2.146	(0.446)	6828	16.8786	16.87
188	Isopropyl acetate	43	5.280	5.280	(0.951)	79667	15.9853	15.98
150	Allyl alcohol	57	3.334	3.335	(0.693)	30180	404.571	404.57
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	13257	16.0149	16.01
133	Ethyl Acrylate	55	5.944	5.944	(1.235)	72562	17.7902	17.79
163	Butyl methacrylate	41	9.647	9.647	(0.949)	33028	18.7434	18.74
203	2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	25147	15.3538	15.35
204	Tetrahydrothiophene	60	7.672	7.668	(0.938)	23234	15.2011	15.20(A)
205	sec-Butyl Ether	57	7.214	7.214	(0.882)	38441	9.73610	9.73(A)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
    exceeded maximum amount.



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060608.D
Date : 06-JUN-2024 12:59
Client ID: HS24051959-07MS
Sample Info: HS24051959-07MS;HS24051959-07MS;3;;MS
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060608.D
Inj Date : 06-JUN-2024 12:59
InstruID : VOA9.i
LabSampID : HS24051959-07MS

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060609.D Page 1
Report Date: 21-Jun-2024 17:22

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060609.D
Lab Smp Id: HS24051959-07MSD Client Smp ID: HS24051959-07MSD
Inj Date : 06-JUN-2024 13:20
Operator : TS Inst ID: VOA9.i
Smp Info : HS24051959-07MSD;HS24051959-07MSD;3;;MSD
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240606.b\8260C.m
Meth Date : 21-Jun-2024 17:22 VOA9.i Quant Type: ISTD
Cal Date : 05-JUN-2024 20:24 Cal File: W060506.D
Als bottle: 7 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.819	4.812	(1.000)	239403	50.0000	
2 Dichlorodifluoromethane	85	1.171	1.157	(0.243)	13438	18.5892	18.58
3 Chloromethane	50	1.303	1.288	(0.270)	52432	16.7408	16.74
4 Propionitrile	54	4.339	4.328	(0.900)	38967	168.937	168.93(a)
5 Vinyl Chloride	62	1.385	1.370	(0.287)	27485	16.9067	16.90
6 Bromomethane	94	1.614	1.599	(0.335)	12340	16.3949	16.39
7 Chloroethane	64	1.700	1.685	(0.353)	19364	16.3488	16.34
8 Trichlorofluoromethane	101	1.899	1.884	(0.394)	35783	17.0700	17.07
9 Acrolein	56	2.270	2.255	(0.471)	2103	24.5308	24.53
10 Acetone	43	2.416	2.401	(0.501)	20196	28.7751	28.77
11 1,1-Dichloroethene	96	2.337	2.322	(0.485)	27764	20.2209	20.22
12 Isobutyl Alcohol	43	5.284	5.280	(1.096)	78142	306.900	306.90(a)
13 Acetonitrile	39	2.675	2.664	(0.555)	35500	180.432	180.43(a)
14 Allyl Chloride	41	2.678	2.664	(0.556)	79955	17.8576	17.85(a)
15 Iodomethane	142	2.472	2.457	(0.513)	12799	43.2588	43.25
16 Acrylonitrile	53	3.068	3.057	(0.637)	20676	33.4380	33.43
17 Methylene Chloride	84	2.798	2.787	(0.581)	26349	14.9978	14.99
18 Methyl tert-butyl ether	73	3.083	3.072	(0.640)	72595	17.7742	17.77
19 Carbon Disulfide	76	2.525	2.510	(0.524)	115905	29.4531	29.45
20 trans-1,2-Dichloroethene	96	3.064	3.050	(0.636)	23565	16.0816	16.08

22 1,1-Dichloroethane	63	3.518	3.503 (0.730)	58848	20.2662	20.26
23 Chloroprene	53	3.612	3.601 (0.750)	37494	15.3623	15.36

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060609.D Page 2
Report Date: 21-Jun-2024 17:22

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	24 2-Butanone	43	4.268	4.257	(0.886)	28576	31.8575	31.85
	25 Methacrylonitrile	41	4.500	4.485	(0.934)	15841	15.9890	15.98(a)
	26 2,2-Dichloropropane	77	4.185	4.174	(0.869)	30865	15.1514	15.15
	27 cis-1,2-Dichloroethene	96	4.200	4.189	(0.872)	28972	16.5138	16.51
	28 Chloroform	83	4.575	4.568	(0.949)	46118	14.6163	14.61
	29 Bromochloromethane	128	4.470	4.463	(0.928)	13445	15.2565	15.25
$	30 Dibromofluoromethane	113	4.751	4.740	(0.986)	89367	51.7887	51.78
	31 1,1,1-Trichloroethane	97	4.744	4.737	(0.984)	35722	15.7676	15.76
	32 1,1-Dichloropropene	75	4.924	4.917	(0.887)	35257	15.6339	15.63
	33 1,2-Dichloroethane	62	5.175	5.171	(0.932)	39522	15.9431	15.94
	34 Carbon Tetrachloride	117	4.913	4.905	(0.885)	29040	15.6055	15.60
$	35 1,2-Dichloroethane-d4	65	5.096	5.093	(1.058)	110581	52.5630	52.56
*	36 1,4-Difluorobenzene	114	5.554	5.546	(1.000)	349170	50.0000	
	37 Benzene	78	5.141	5.134	(0.926)	104105	15.8210	15.82
	38 Trichloroethene	130	5.790	5.782	(1.043)	28322	16.2873	16.28
	39 Bromodichloromethane	83	6.277	6.274	(1.130)	28076	13.5519	13.55
	40 Methyl Methacrylate	41	5.824	5.820	(1.208)	11313	17.0573	17.05(a)
	42 1,2-Dichloropropane	63	6.007	6.004	(1.082)	27935	15.0417	15.04
	43 2-Nitropropane	43	6.506	6.502	(1.350)	5259	15.2454	15.24
	44 Dibromomethane	93	6.120	6.116	(1.102)	16213	15.0715	15.07
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	56438	31.2719	31.27
	46 cis-1,3-Dichloropropene	75	6.689	6.686	(1.205)	31703	13.6039	13.60
*	47 Chlorobenzene-d5	117	8.185	8.182	(1.000)	315580	50.0000	
$	48 Toluene-d8	98	6.922	6.918	(0.846)	346843	54.7289	54.72
	49 Ethyl Methacrylate	69	7.289	7.286	(1.312)	38079	16.8563	16.85(a)
	50 Toluene	91	6.978	6.978	(0.853)	112092	15.9105	15.91
	51 trans-1,3-Dichloropropene	75	7.196	7.192	(1.296)	26077	13.6046	13.60
	52 2-Hexanone	43	7.214	7.211	(0.881)	48275	35.7616	35.76
	53 1,1,2-Trichloroethane	83	7.353	7.349	(0.898)	21581	15.9773	15.97
	54 1,3-Dichloropropane	76	7.495	7.496	(0.916)	45273	15.6704	15.67
	55 Dibromochloromethane	129	7.690	7.687	(0.940)	21017	14.0241	14.02
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	24448	17.8529	17.85
	57 1,2-Dibromoethane	107	7.784	7.781	(0.951)	23038	14.9794	14.97
	58 1-Chlorohexane	55	8.193	8.193	(1.475)	26389	17.8433	17.84
	59 Chlorobenzene	112	8.208	8.208	(1.003)	70947	16.0626	16.06
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.279	(1.012)	22294	14.6200	14.61
	61 Ethylbenzene	106	8.305	8.302	(1.015)	37639	16.7294	16.72
	62 m,p-Xylenes	106	8.406	8.407	(1.027)	96469	34.5049	34.50
	63 o-Xylene	106	8.744	8.744	(1.068)	46114	17.0413	17.04
	64 Styrene	104	8.759	8.759	(1.070)	72901	16.6579	16.65
	66 Bromoform	173	8.916	8.916	(1.089)	11842	13.8314	13.83
	67 Isopropylbenzene	105	9.059	9.059	(1.107)	121225	18.8618	18.86
	68 1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	36642	16.0657	16.06
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	129444	56.4560	56.45
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	169818	50.0000	
	71 1,2,3-Trichloropropane	75	9.359	9.359	(0.920)	34674	15.8703	15.87
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.374	(1.146)	7316	15.4082	15.40(a)
	73 n-Propylbenzene	91	9.411	9.407	(0.926)	140866	18.2473	18.24
	74 Bromobenzene	156	9.317	9.314	(0.916)	31322	16.4559	16.45
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	95407	18.7681	18.76
	76 2-Chlorotoluene	91	9.478	9.479	(0.932)	85675	17.1146	17.11
	77 4-Chlorotoluene	91	9.572	9.572	(0.941)	98404	17.0694	17.06

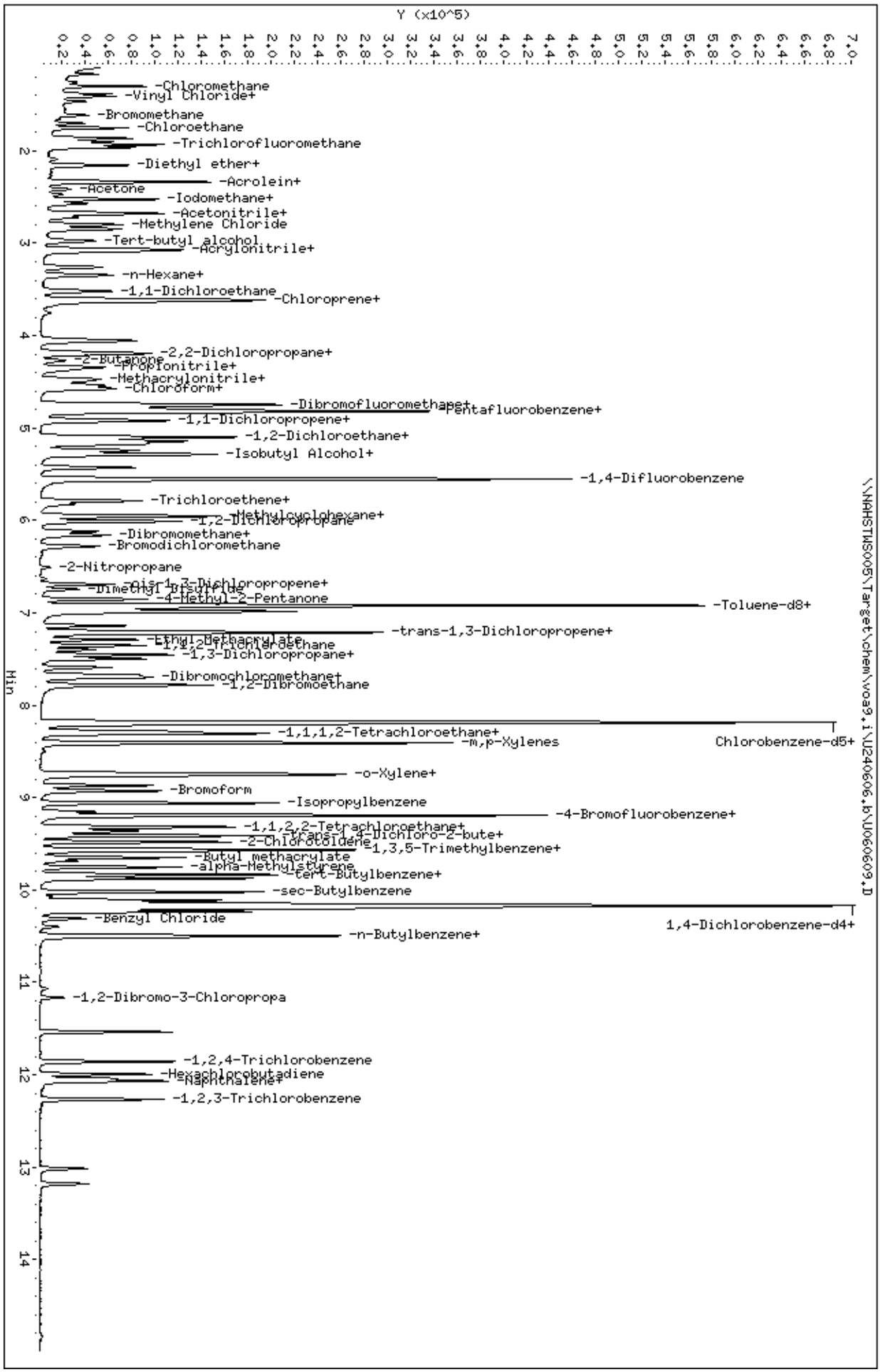
78	tert-Butylbenzene	119	9.835	9.835 (0.967)	87701	18.8809	18.88
79	1,2,4-Trimethylbenzene	105	9.876	9.876 (0.971)	93811	17.8423	17.84

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
81	sec-Butylbenzene	105	10.018	10.019	(0.985)	120448	19.6138	19.61
82	p-Isopropyltoluene	119	10.146	10.142	(0.998)	100176	19.2046	19.20
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	58763	16.4521	16.45
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	61610	17.3136	17.31
86	Benzyl Chloride	91	10.311	10.307	(1.260)	25163	13.8879	13.88
87	n-Butylbenzene	91	10.491	10.491	(1.032)	89110	18.1795	18.17
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	58826	17.5436	17.54
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.166	(1.098)	3862	15.3560	15.35
90	1,2,4-Trichlorobenzene	180	11.859	11.855	(1.166)	34941	16.7444	16.74
91	Hexachlorobutadiene	225	11.998	11.994	(1.180)	16711	17.1921	17.19
92	Naphthalene	128	12.065	12.065	(1.187)	74756	15.3285	15.32
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	32314	16.5133	16.51
146	Methyl acetate	43	2.720	2.705	(0.564)	29770	16.2277	16.22
138	Freon TF	101	2.341	2.326	(0.486)	22061	18.7629	18.76
141	Cyclohexane	56	4.785	4.778	(0.993)	40034	18.8063	18.80
142	Tetrahydrofuran	42	4.545	4.534	(0.943)	10186	32.3532	32.35
147	Methylcyclohexane	55	5.947	5.944	(1.071)	70746	17.6126	17.61
135	1,4-Dioxane	88	6.168	6.161	(1.280)	6814	372.849	372.84
132	n-Butanol	56	5.827	5.820	(1.209)	14451	320.252	320.25(a)
136	n-Hexane	57	3.346	3.335	(0.694)	29302	19.8215	19.82
139	Diethyl ether	59	2.150	2.139	(0.446)	20204	17.0291	17.02
148	Tert-butyl alcohol	59	2.975	2.963	(0.617)	49438	342.573	342.57
149	Isopropyl alcohol	45	2.570	2.559	(0.533)	39367	338.814	338.81
156	Diisopropyl ether	45	3.623	3.612	(0.752)	97766	18.2343	18.23
162	Butyl acrylate	55	8.732	8.729	(1.067)	47428	15.2243	15.22
164	Dicyclopentadiene	66	10.194	10.198	(1.003)	148635	19.0138	19.01
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	92932	17.9816	17.98
167	Ethanol	45	2.090	2.079	(0.434)	7833	362.388	362.38
172	tert-Butyl formate	59	5.242	5.239	(1.088)	43832	31.1655	31.16
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.299)	149381	318.926	318.92
140	1,3-Butadiene	54	1.408	1.397	(0.292)	13266	16.9871	16.98
182	Epichlorohydrin	57	6.633	6.626	(1.194)	4075	45.6690	45.66
M 94	1,2-Dichloroethylene (total)	96				52537	29.5226	29.52
M 95	Xylenes (total)	106				142583	51.6257	51.62
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	32892	15.9080	15.90
131	Methyl Acrylate	55	4.373	4.362	(0.907)	31488	16.6936	16.69
189	n-Butyl acetate	43	7.672	7.589	(0.937)	3201	1.35624	1.35(a)
134	Cyclohexanone	55	9.152	9.153	(0.900)	19465	259.620	259.62(a)
185	Isoprene	39	2.161	2.146	(0.449)	6511	16.2327	16.23
188	Isopropyl acetate	43	5.284	5.280	(0.951)	77963	15.9893	15.98
150	Allyl alcohol	57	3.346	3.335	(0.694)	29302	396.430	396.43
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	12544	15.5375	15.53
133	Ethyl Acrylate	55	5.947	5.944	(1.234)	70746	17.4934	17.49
163	Butyl methacrylate	41	9.647	9.647	(0.949)	37817	21.6166	21.61
203	2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	25281	15.4790	15.47
204	Tetrahydrothiophene	60	7.672	7.668	(0.937)	24116	16.1204	16.12(A)
205	sec-Butyl Ether	57	7.214	7.214	(0.881)	37394	9.67638	9.67(A)

QC Flag Legend

a - Target compound detected but, quantitated amount

Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060609.D
Date : 06-JUN-2024 13:20
Client ID: HS24051959-07MSD
Sample Info: HS24051959-07MSD;HS24051959-07MSD;3;;MSD
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060609.D
Inj Date : 06-JUN-2024 13:20
InstruID : VOA9.i
LabSampID : HS24051959-07MSD

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060613.D Page 1
Report Date: 22-Jun-2024 12:41

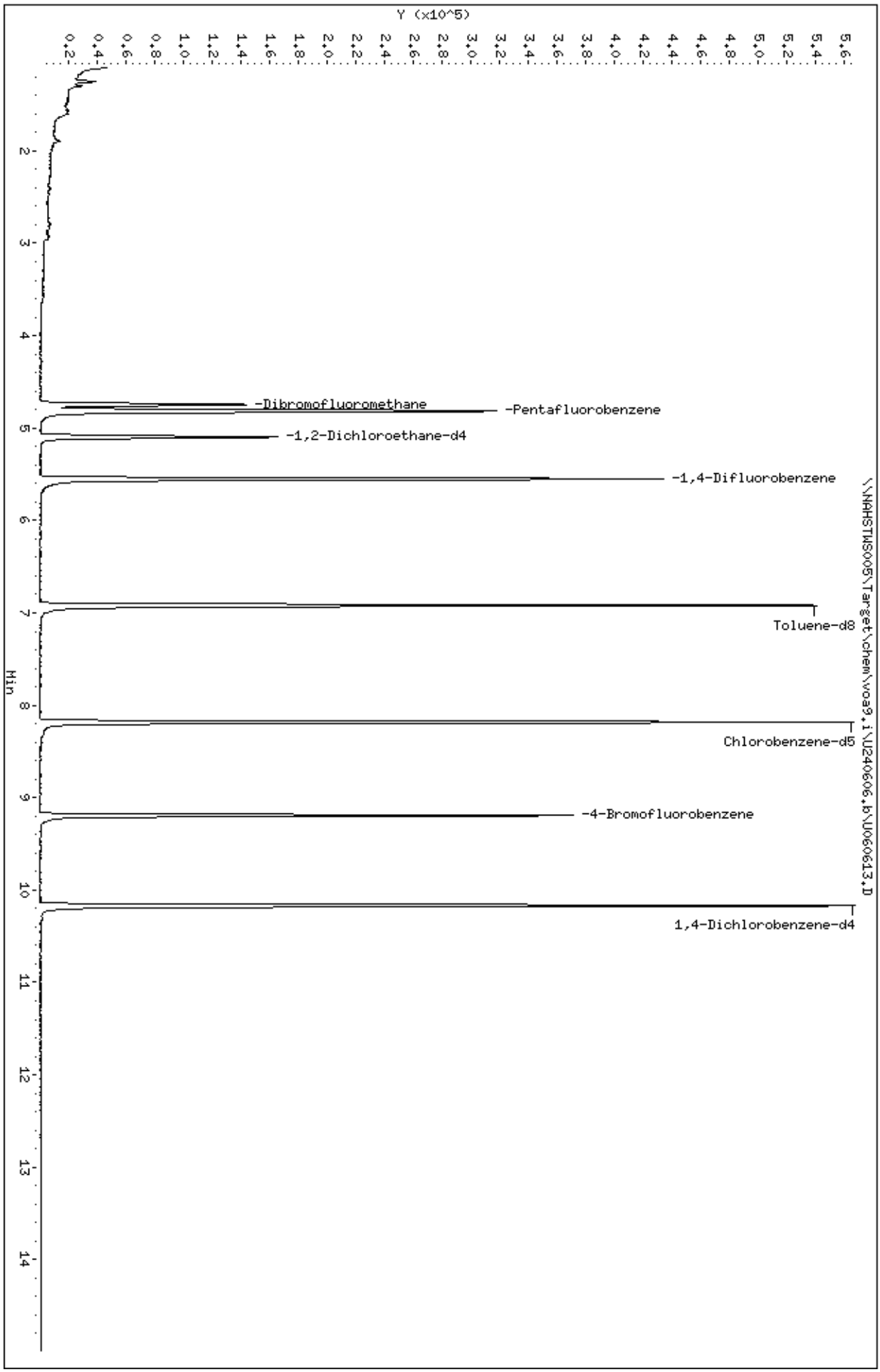
ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060613.D
Lab Smp Id: HS24051959-18
Inj Date : 06-JUN-2024 14:49
Operator : TS   Inst ID: VOA9.i
Smp Info : HS24051959-18
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240606.b\8260C.m
Meth Date : 22-Jun-2024 12:40 r.patel   Quant Type: ISTD
Cal Date : 05-JUN-2024 20:24   Cal File: W060506.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.815	4.815	(1.000)	229089	50.0000	
$ 30 Dibromofluoromethane	113	4.748	4.744	(0.986)	83348	50.4753	50.47
$ 35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	109084	54.1859	54.18
* 36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	337303	50.0000	
* 47 Chlorobenzene-d5	117	8.181	8.182	(1.000)	300669	50.0000	
$ 48 Toluene-d8	98	6.922	6.918	(0.846)	326809	54.1251	54.12
$ 69 4-Bromofluorobenzene	95	9.194	9.190	(1.124)	112439	51.4714	51.47
* 70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	150619	50.0000	


Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060613.D
Date : 06-JUN-2024 14:49
Client ID:
Sample Info: HS24051959-18
Purge Volume: 5.0
Column phase: DB624
Instrument: VOA9.i
Operator: TS
Column diameter: 0.18
Page 1
Y (x10^5)
Min
-Dibromofluoromethane
-Pentafluorobenzene
-1,2-Dichloroethane-d4
-1,4-Difluorobenzene
Toluene-d8
Chlorobenzene-d5
-4-Bromofluorobenzene
1,4-Dichlorobenzene-d4
\\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060613.D

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060613.D
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InstruID : VOA9.i
LabSampID : HS24051959-18

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060614.D Page 1
Report Date: 22-Jun-2024 12:41

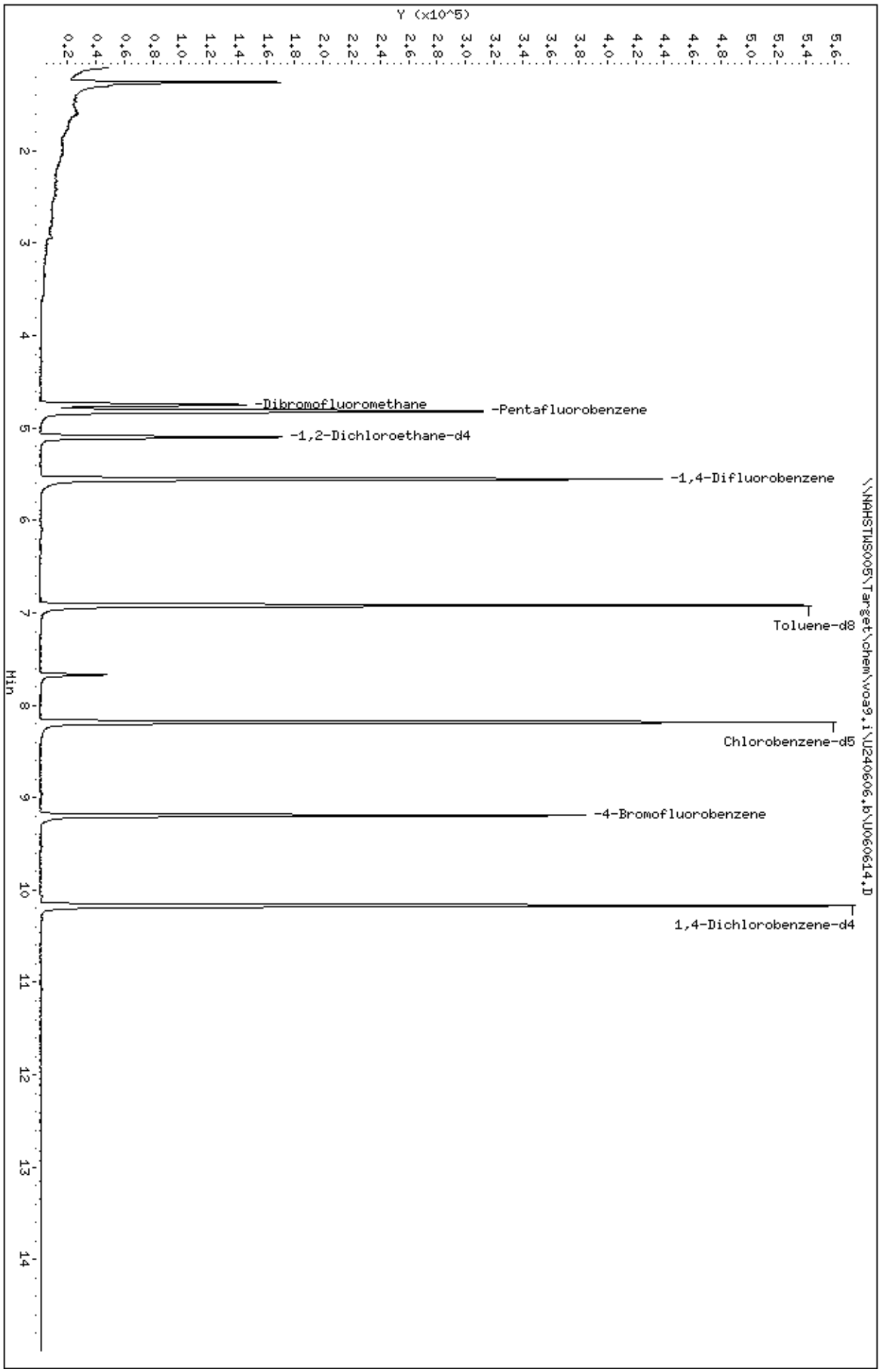
ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060614.D
Lab Smp Id: HS24051959-01
Inj Date : 06-JUN-2024 15:11
Operator : TS   Inst ID: VOA9.i
Smp Info : HS24051959-01
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240606.b\8260C.m
Meth Date : 22-Jun-2024 12:40 r.patel   Quant Type: ISTD
Cal Date : 05-JUN-2024 20:24   Cal File: W060506.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.819	4.815	(1.000)	225962	50.0000	
$ 30 Dibromofluoromethane	113	4.748	4.744	(0.985)	84984	52.1782	52.17
$ 35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	110644	55.7214	55.72
* 36 1,4-Difluorobenzene	114	5.554	5.550	(1.000)	334222	50.0000	
* 47 Chlorobenzene-d5	117	8.185	8.182	(1.000)	304271	50.0000	
$ 48 Toluene-d8	98	6.922	6.918	(0.846)	329735	53.9632	53.96
$ 69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	115253	52.1350	52.13
* 70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	150227	50.0000	


Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060614.D
Date : 06-JUN-2024 15:11
Client ID:
Sample Info: HS24051959-01
Purge Volume: 5.0
Column phase: DB624
Instrument: VOA9.i
Operator: TS
Column diameter: 0.18
Y (x10^5)
Min
-Dibromofluoromethane
-Pentafluorobenzene
-1,2-Dichloroethane-d4
-1,4-Difluorobenzene
Toluene-d8
Chlorobenzene-d5
-4-Bromofluorobenzene
1,4-Dichlorobenzene-d4
\\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060614.D

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060614.D
Inj Date : 06-JUN-2024 15:11
InstruID : VOA9.i
LabSampID : HS24051959-01

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060615.D Page 1
Report Date: 22-Jun-2024 12:41

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060615.D
Lab Smp Id: HS24051959-02
Inj Date : 06-JUN-2024 15:32
Operator : TS   Inst ID: VOA9.i
Smp Info : HS24051959-02
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240606.b\8260C.m
Meth Date : 22-Jun-2024 12:40 r.patel   Quant Type: ISTD
Cal Date : 05-JUN-2024 20:24   Cal File: W060506.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

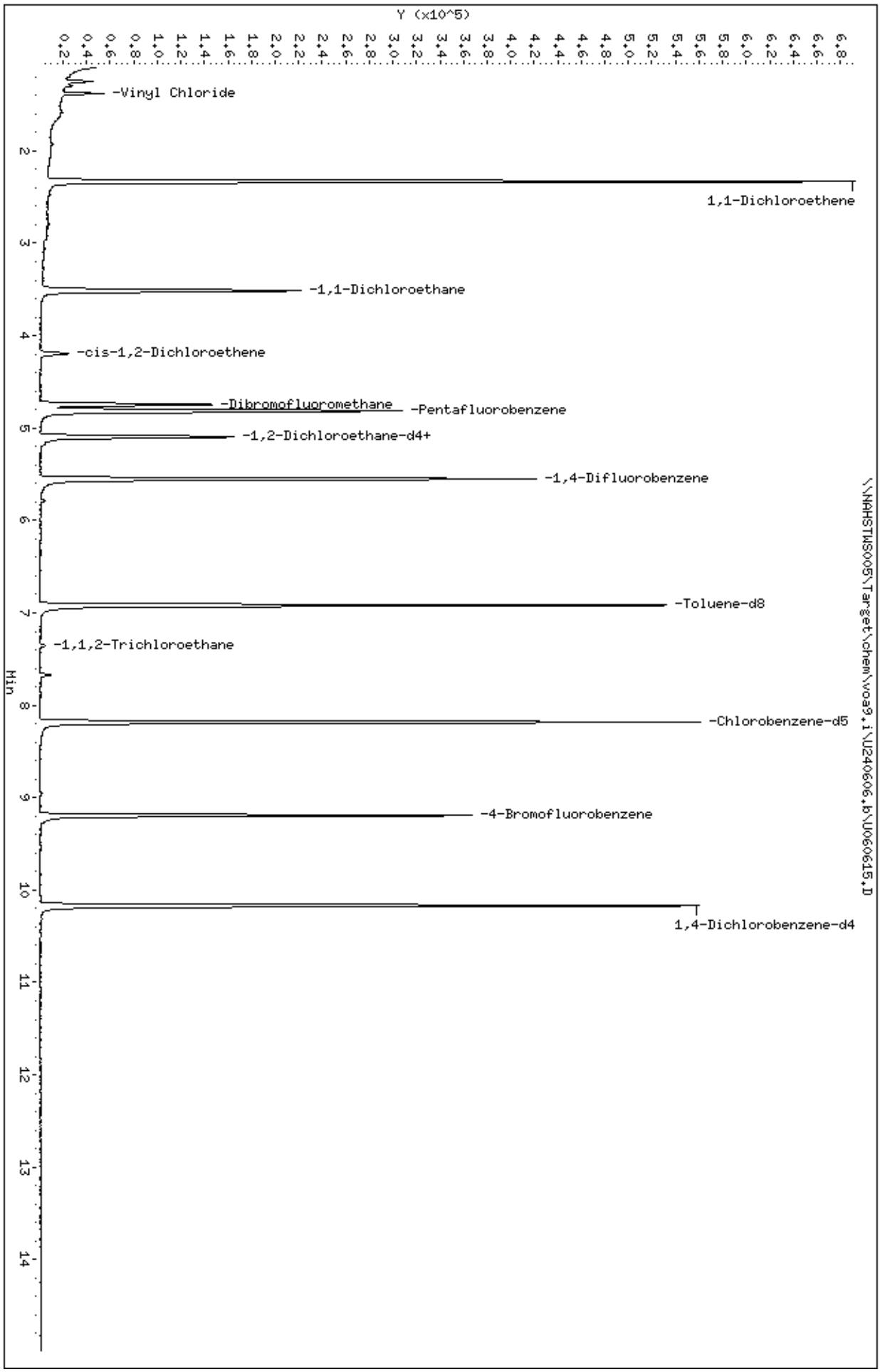
Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
*	1 Pentafluorobenzene	168	4.815	4.815	(1.000)	221677	50.0000	
	5 Vinyl Chloride	62	1.377	1.378	(0.286)	23117	15.3569	15.35
	11 1,1-Dichloroethene	96	2.333	2.330	(0.485)	225054	177.017	177.01
	22 1,1-Dichloroethane	63	3.510	3.511	(0.729)	224230	84.3895	84.38
	27 cis-1,2-Dichloroethene	96	4.196	4.193	(0.872)	11313	7.06262	7.06
$	30 Dibromofluoromethane	113	4.747	4.744	(0.986)	84433	52.8420	52.84
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	108405	55.6491	55.64
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	326753	50.0000	
	37 Benzene	78	5.137	5.138	(0.926)	5670	1.04013	1.04
*	47 Chlorobenzene-d5	117	8.185	8.182	(1.000)	298008	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.845)	322259	53.8481	53.84
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	1059	0.63010	0.63(a)
$	69 4-Bromofluorobenzene	95	9.193	9.190	(1.123)	111250	51.3819	51.38
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	146250	50.0000	
M	94 1,2-Dichloroethylene (total)	96				11313	6.86557	6.86(a)

QC Flag Legend

a - Target compound detected but, quantitated amount

Below Limit Of Quantitation(BLOQ).



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060615.D
Date : 06-JUN-2024 15:32
Client ID:
Sample Info: HS24051959-02
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060615.D

Date : 06-JUN-2024 15:32

Client ID:

Instrument: VOA9.i

Sample Info: HS24051959-02

Purge Volume: 5.0

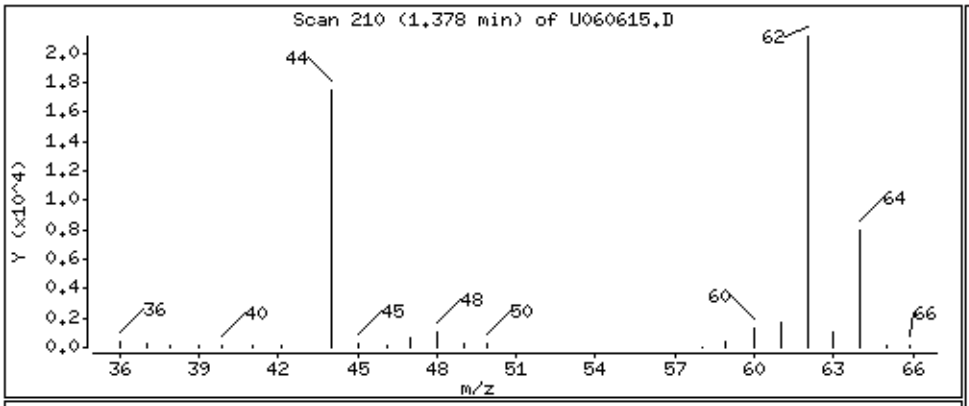
Operator: TS

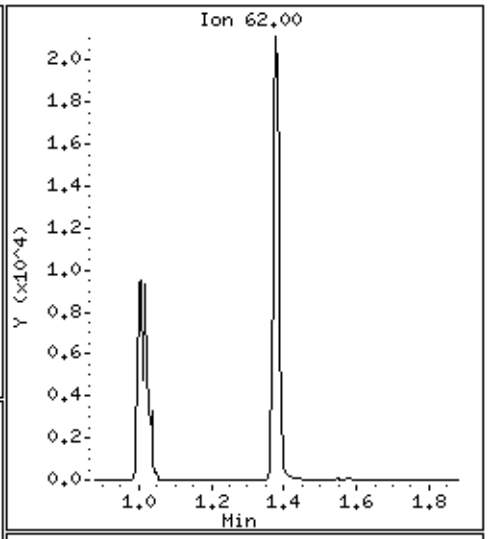
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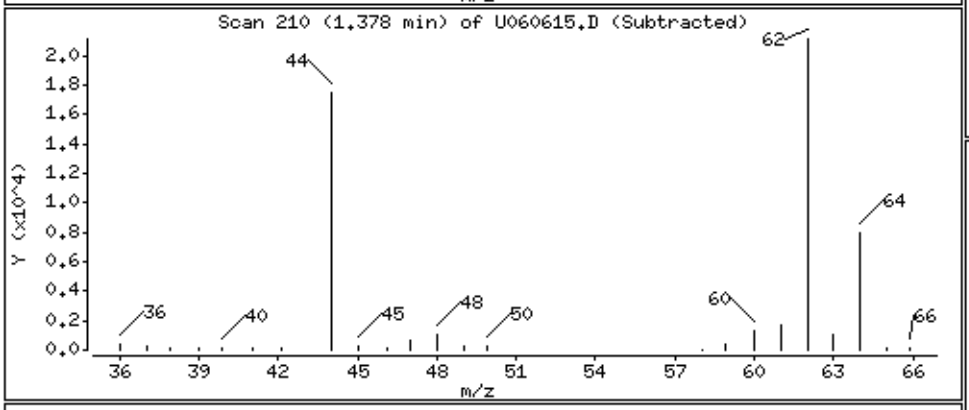
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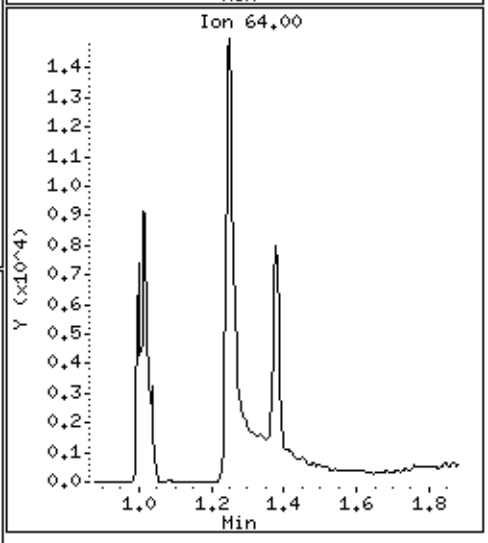
5 Vinyl Chloride

Concentration: 15.35 ug/l









Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060615.D

Date : 06-JUN-2024 15:32

Client ID:

Instrument: VOA9.i

Sample Info: HS24051959-02

Purge Volume: 5.0

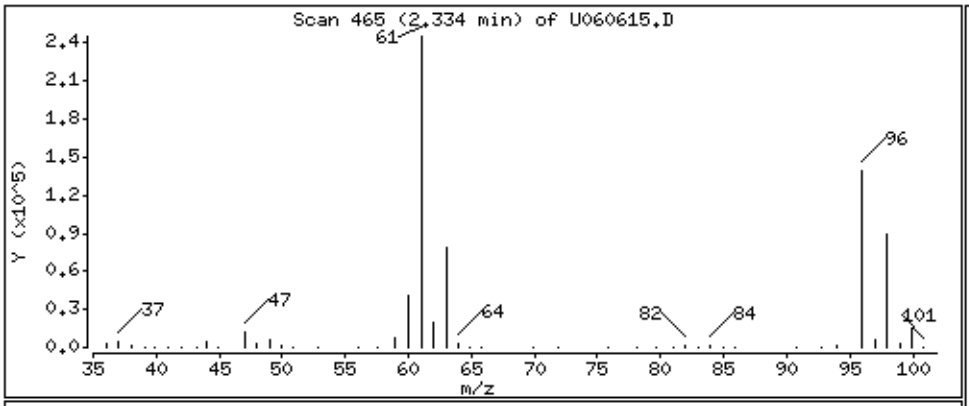
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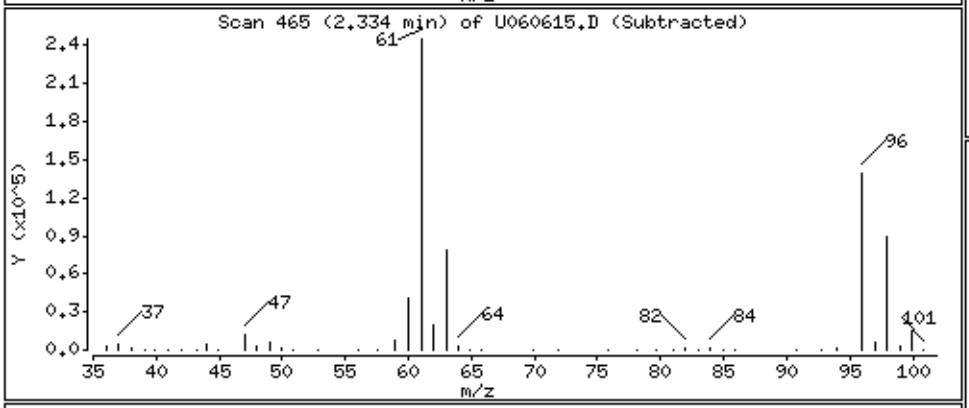
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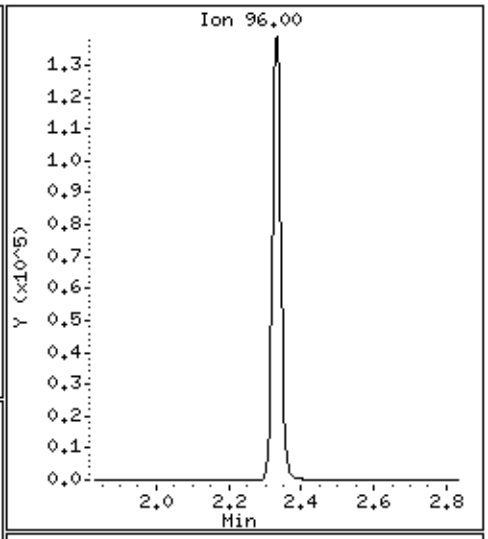
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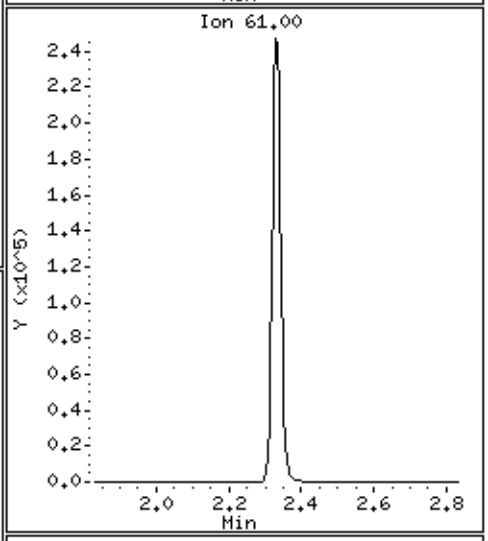
11 1,1-Dichloroethene

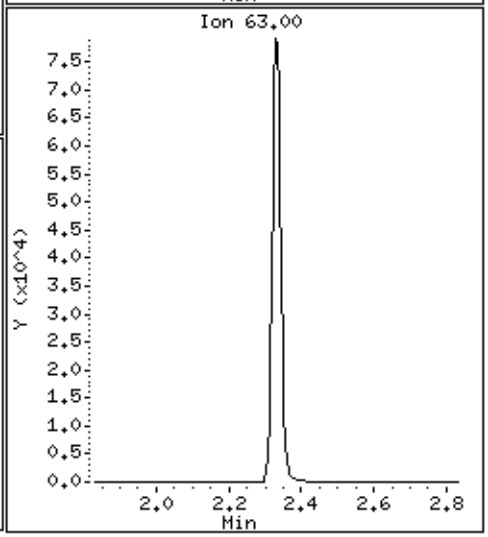
Concentration: 177.01 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060615.D

Date : 06-JUN-2024 15:32

Client ID:

Instrument: VOA9.i

Sample Info: HS24051959-02

Purge Volume: 5.0

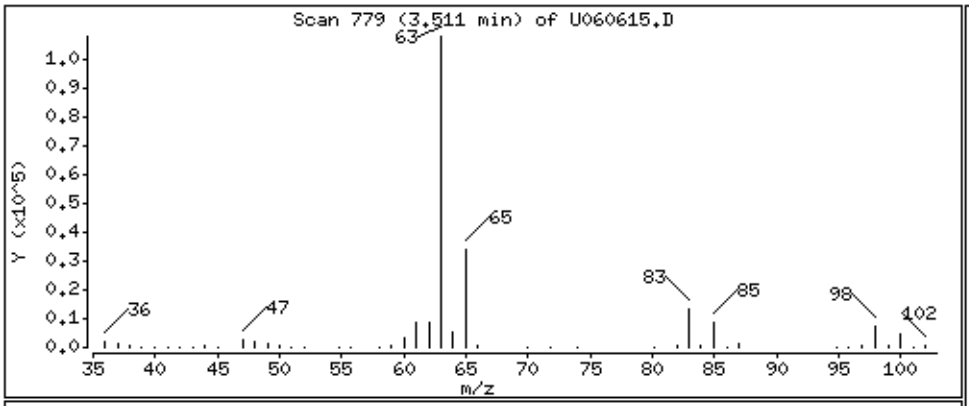
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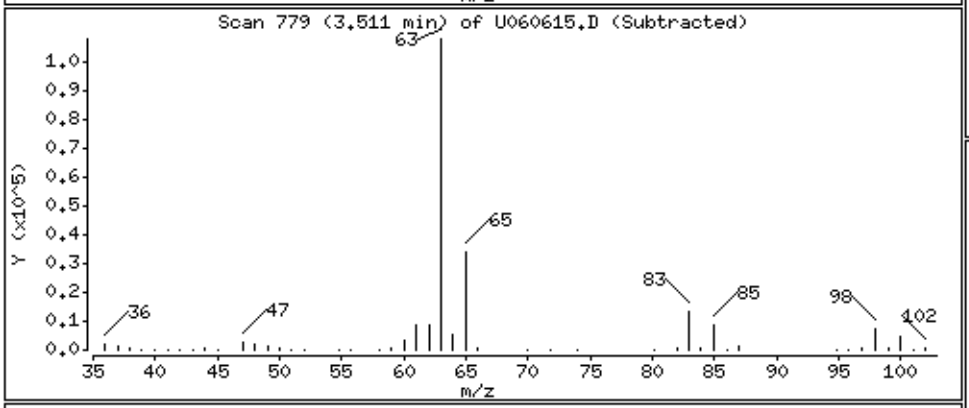
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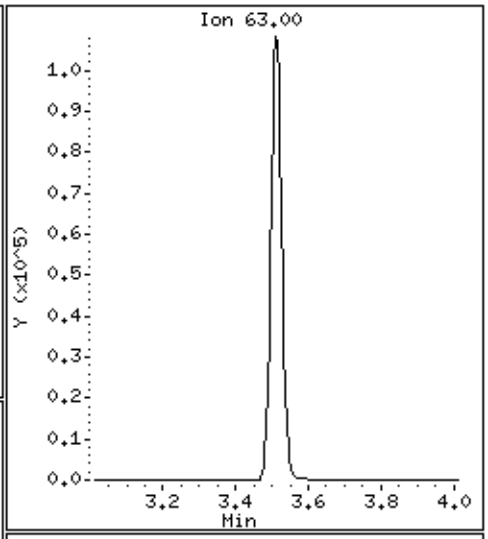
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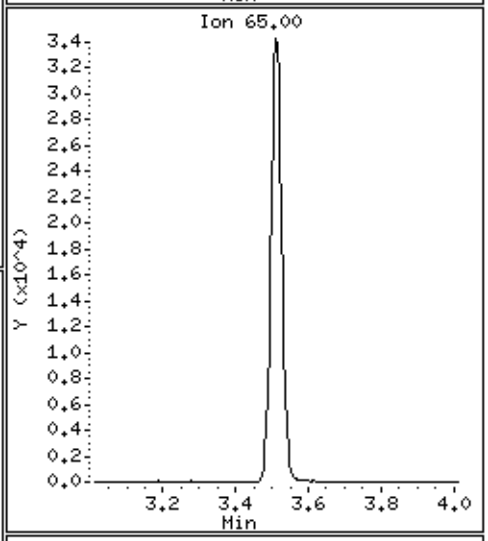
22 1,1-Dichloroethane

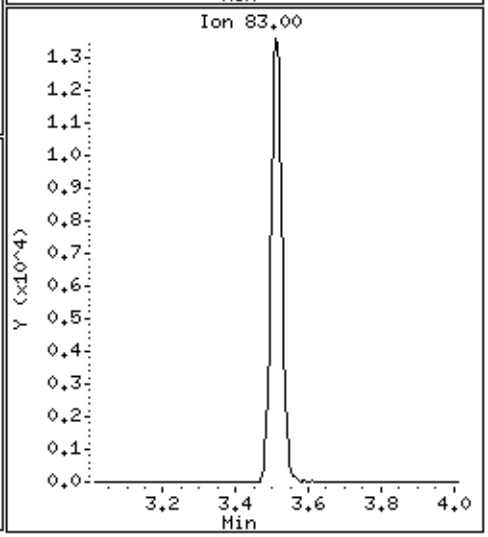
Concentration: 84.38 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060615.D

Date : 06-JUN-2024 15:32

Client ID:

Instrument: VOA9.i

Sample Info: HS24051959-02

Purge Volume: 5.0

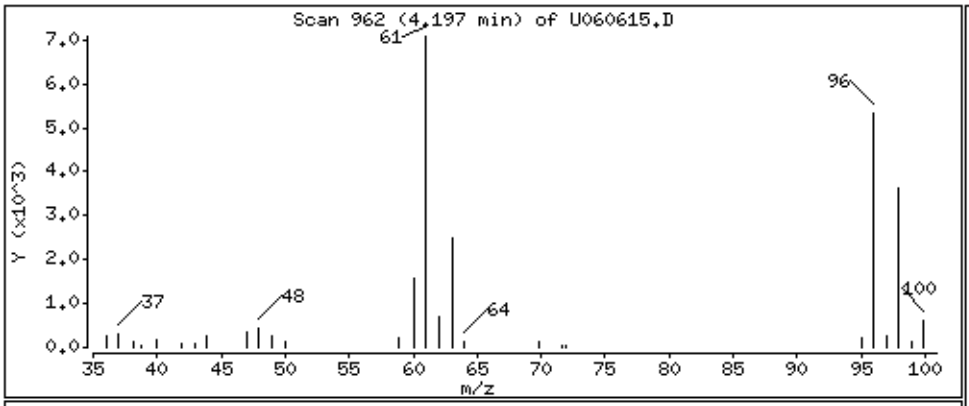
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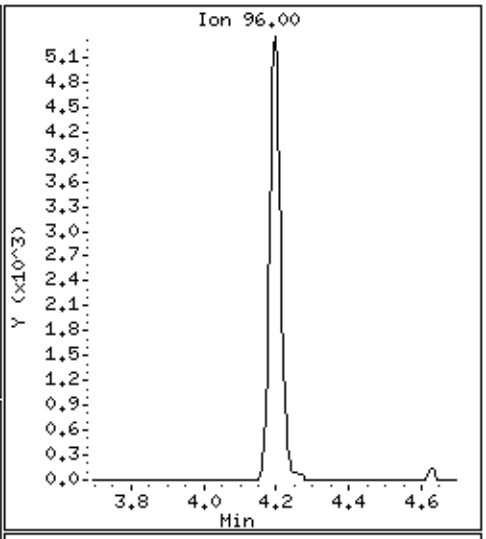
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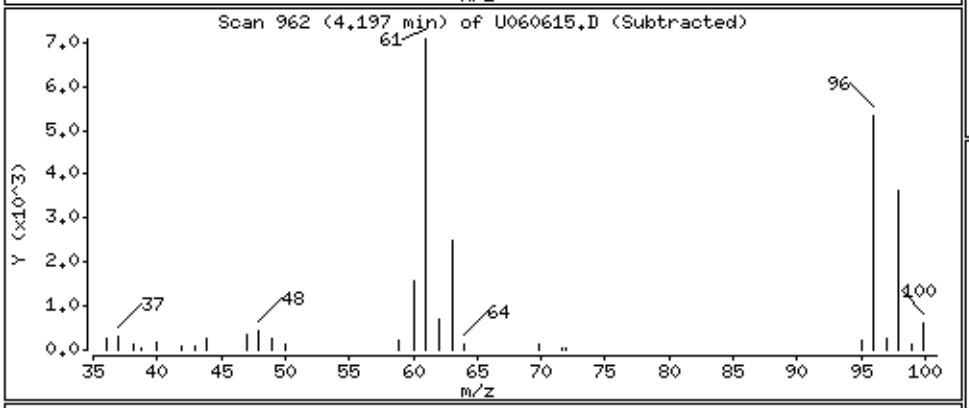
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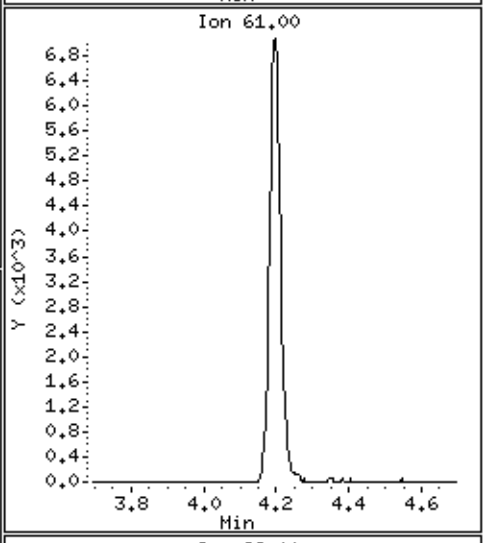
27 cis-1,2-Dichloroethene

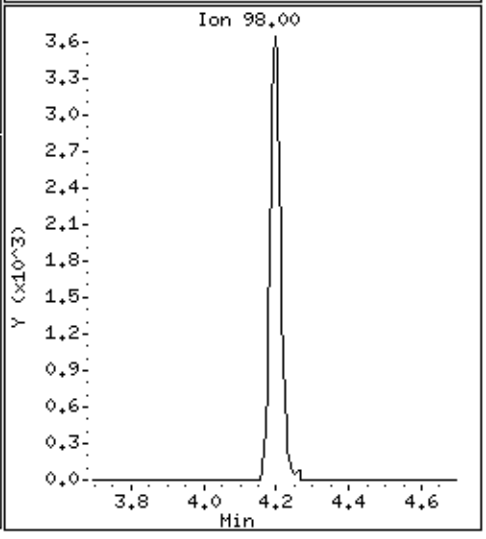
Concentration: 7.06 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060615.D

Date : 06-JUN-2024 15:32

Client ID:

Instrument: VOA9.i

Sample Info: HS24051959-02

Purge Volume: 5.0

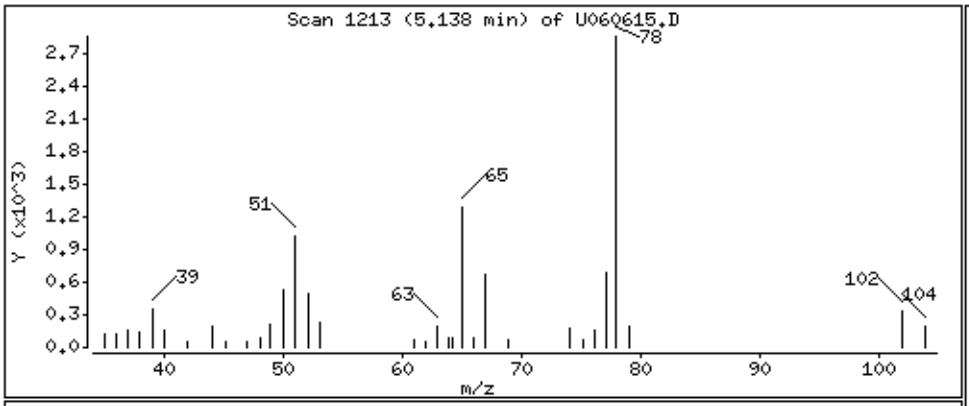
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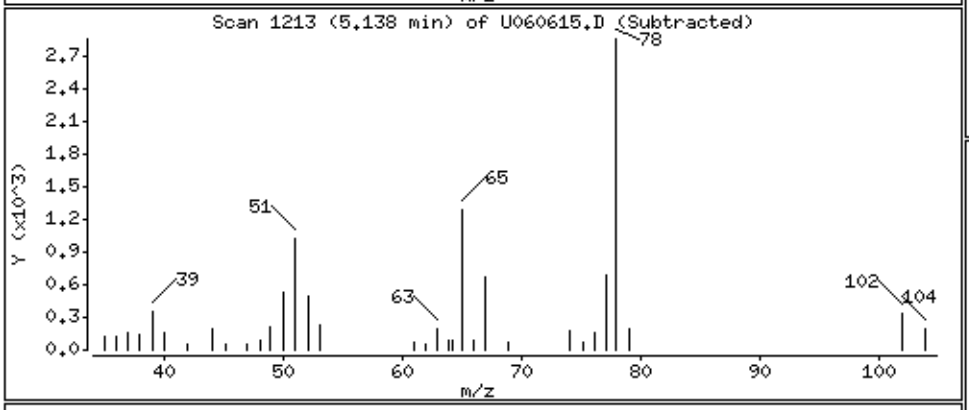
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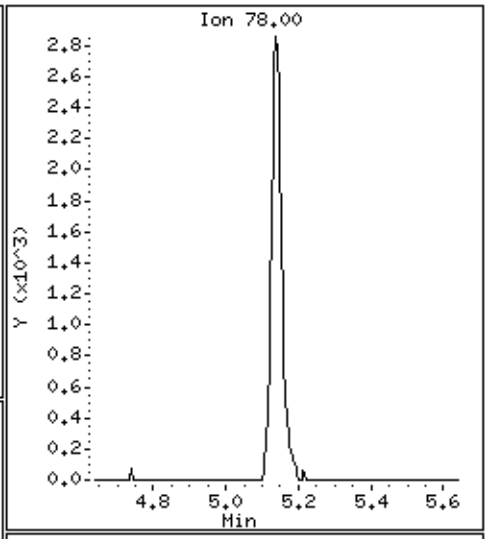
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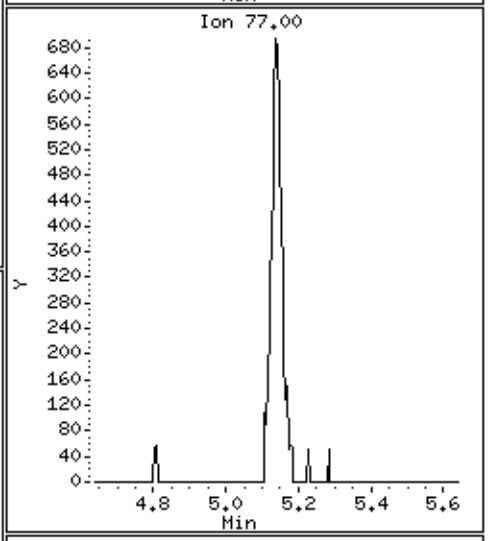
37 Benzene

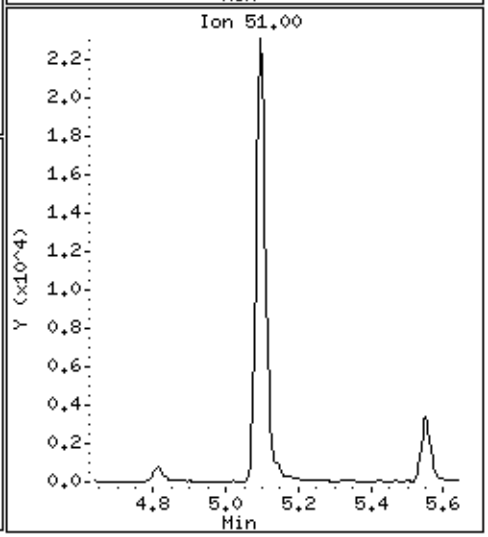
Concentration: 1.04 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060615.D

Date : 06-JUN-2024 15:32

Client ID:

Instrument: VOA9.i

Sample Info: HS24051959-02

Purge Volume: 5.0

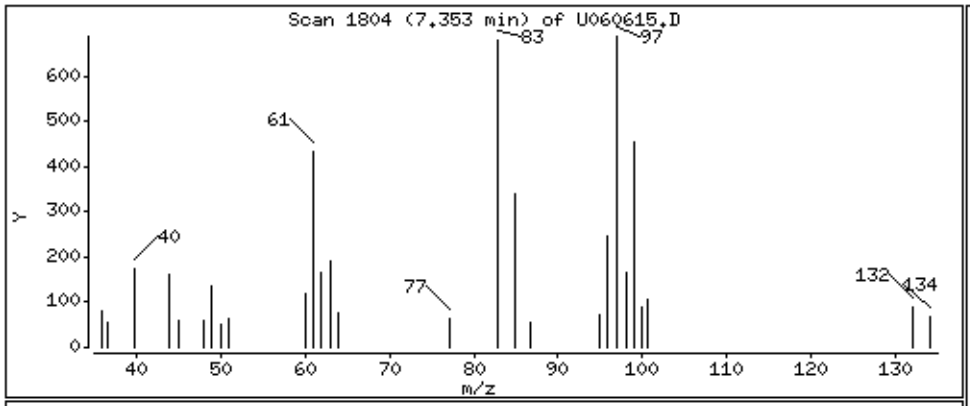
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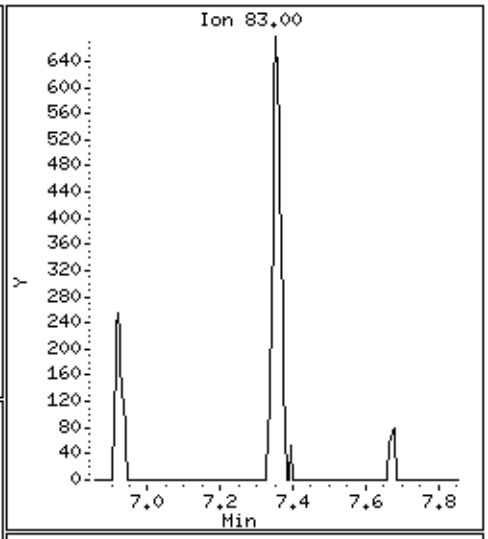
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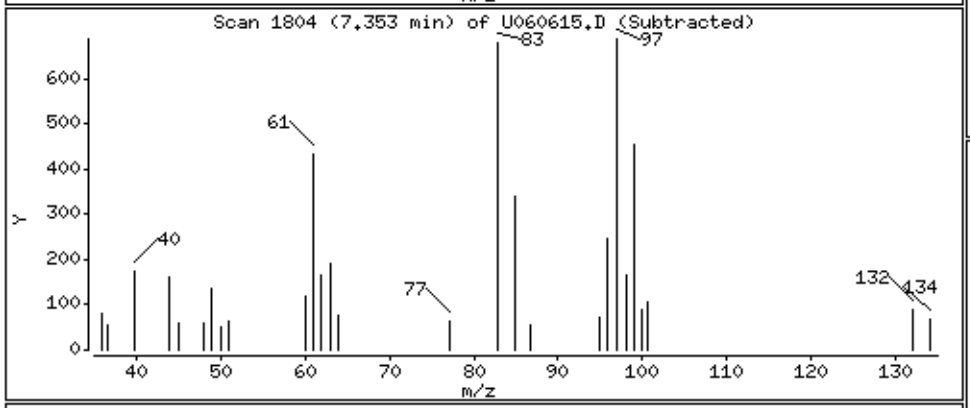
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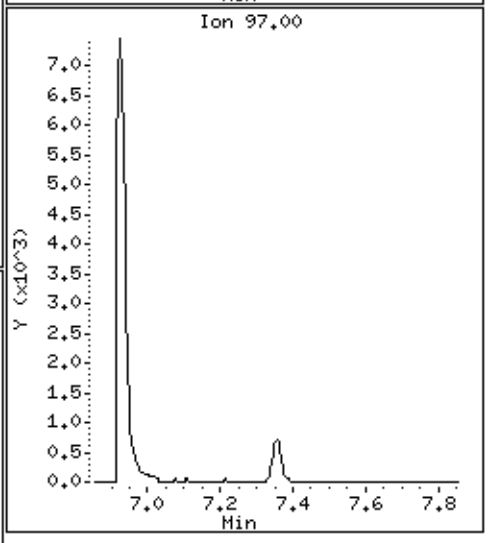
53 1,1,2-Trichloroethane

Concentration: 0.63 ug/l









Data File : \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060615.D
Inj Date : 06-JUN-2024 15:32
InstruID : VOA9.i
LabSampID : HS24051959-02

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060616.D Page 1
Report Date: 22-Jun-2024 12:41

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060616.D
Lab Smp Id: HS24051959-03
Inj Date : 06-JUN-2024 15:54
Operator : TS   Inst ID: VOA9.i
Smp Info : HS24051959-03
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240606.b\8260C.m
Meth Date : 22-Jun-2024 12:40 r.patel   Quant Type: ISTD
Cal Date : 05-JUN-2024 20:24   Cal File: W060506.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.812	4.815	(1.000)	227090	50.0000	
$ 30 Dibromofluoromethane	113	4.744	4.744	(0.986)	84618	51.6954	51.69
$ 35 1,2-Dichloroethane-d4	65	5.093	5.096	(1.058)	110585	55.4151	55.41
* 36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	332707	50.0000	
* 47 Chlorobenzene-d5	117	8.182	8.182	(1.000)	301221	50.0000	
$ 48 Toluene-d8	98	6.918	6.918	(0.846)	329458	54.4638	54.46
$ 69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	112980	51.6243	51.62
* 70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	149623	50.0000	

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060616.D

Date : 06-JUN-2024 15:54

Client ID:

Instrument: VOA9.i

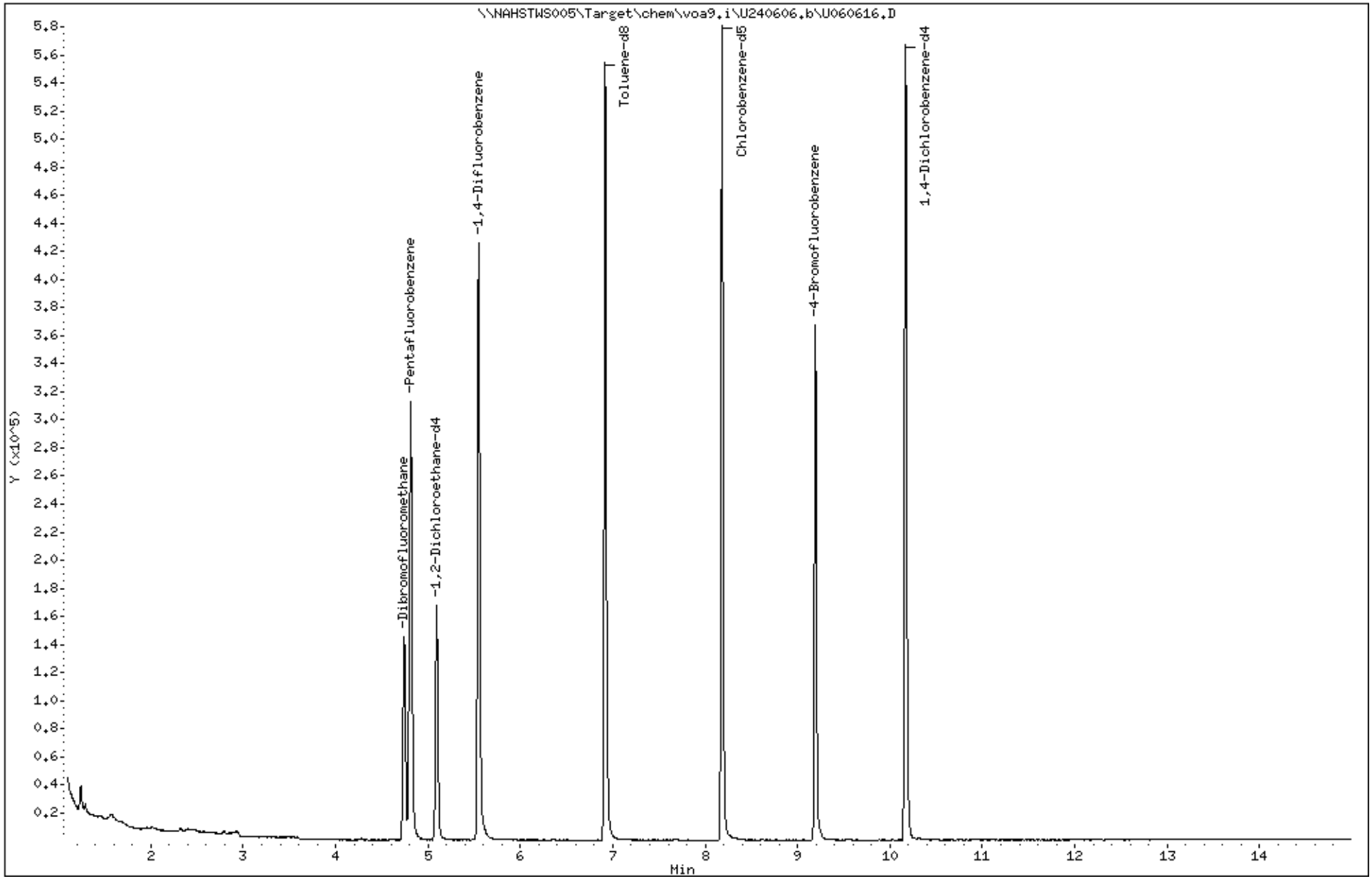
Sample Info: HS24051959-03

Purge Volume: 5.0

Operator: TS

Column phase: DB624

Column diameter: 0.18



Data File : \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060616.D
Inj Date : 06-JUN-2024 15:54
InstruID : VOA9.i
LabSampID : HS24051959-03

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060617.D Page 1
Report Date: 22-Jun-2024 12:42

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060617.D
Lab Smp Id: HS24051959-04
Inj Date : 06-JUN-2024 16:15
Operator : TS Inst ID: VOA9.i
Smp Info : HS24051959-04
Misc Info : V9;WATER;0;1;
Comment :
Method : \\nahstws005\Target\chem\voa9.i\U240606.b\8260C.m
Meth Date : 22-Jun-2024 12:40 r.patel Quant Type: ISTD
Cal Date : 05-JUN-2024 20:24 Cal File: W060506.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

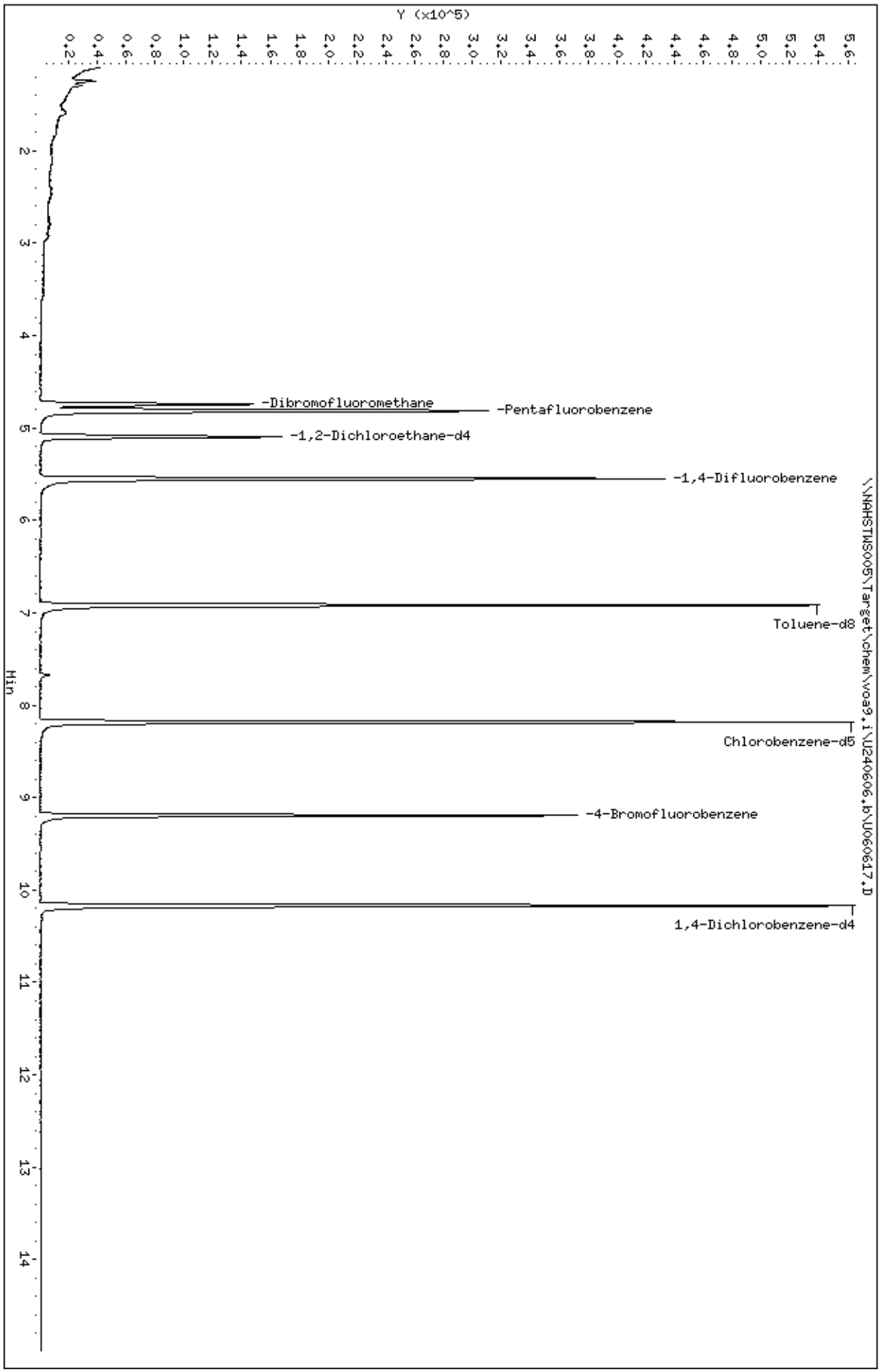
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	
* 1 Pentafluorobenzene	168	4.815	4.815	(1.000)	223212	50.0000		(H)
$ 30 Dibromofluoromethane	113	4.744	4.744	(0.985)	85115	52.9025	52.90	
$ 35 1,2-Dichloroethane-d4	65	5.092	5.096	(1.058)	110733	56.4533	56.45	
* 36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	333562	50.0000		
* 47 Chlorobenzene-d5	117	8.181	8.182	(1.000)	300096	50.0000		
$ 48 Toluene-d8	98	6.918	6.918	(0.846)	328015	54.4285	54.42	
$ 69 4-Bromofluorobenzene	95	9.194	9.190	(1.124)	113299	51.9641	51.96	
* 70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	147634	50.0000		

QC Flag Legend

H - Operator selected an alternate compound hit.


Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060617.D
Date : 06-JUN-2024 16:15
Client ID:
Sample Info: HS24051959-04
Purge Volume: 5.0
Column phase: DB624
Instrument: VOA9.i
Operator: TS
Column diameter: 0.18
Page 1
Y (x10^5)
Min
-Dibromofluoromethane
-Pentafluorobenzene
-1,2-Dichloroethane-d4
-1,4-Difluorobenzene
Toluene-d8
Chlorobenzene-d5
-4-Bromofluorobenzene
1,4-Dichlorobenzene-d4
\\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060617.D

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060617.D
Inj Date : 06-JUN-2024 16:15
InstruID : VOA9.i
LabSampID : HS24051959-04

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060618.D Page 1
Report Date: 22-Jun-2024 12:42

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060618.D
Lab Smp Id: HS24051959-05
Inj Date : 06-JUN-2024 16:39
Operator : TS   Inst ID: VOA9.i
Smp Info : HS24051959-05
Misc Info : V9;WATER;0;5;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240606.b\8260C.m
Meth Date : 22-Jun-2024 12:40 r.patel   Quant Type: ISTD
Cal Date : 05-JUN-2024 20:24   Cal File: W060506.D
Als bottle: 16
Dil Factor: 5.00000
Integrator: HP RTE   Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

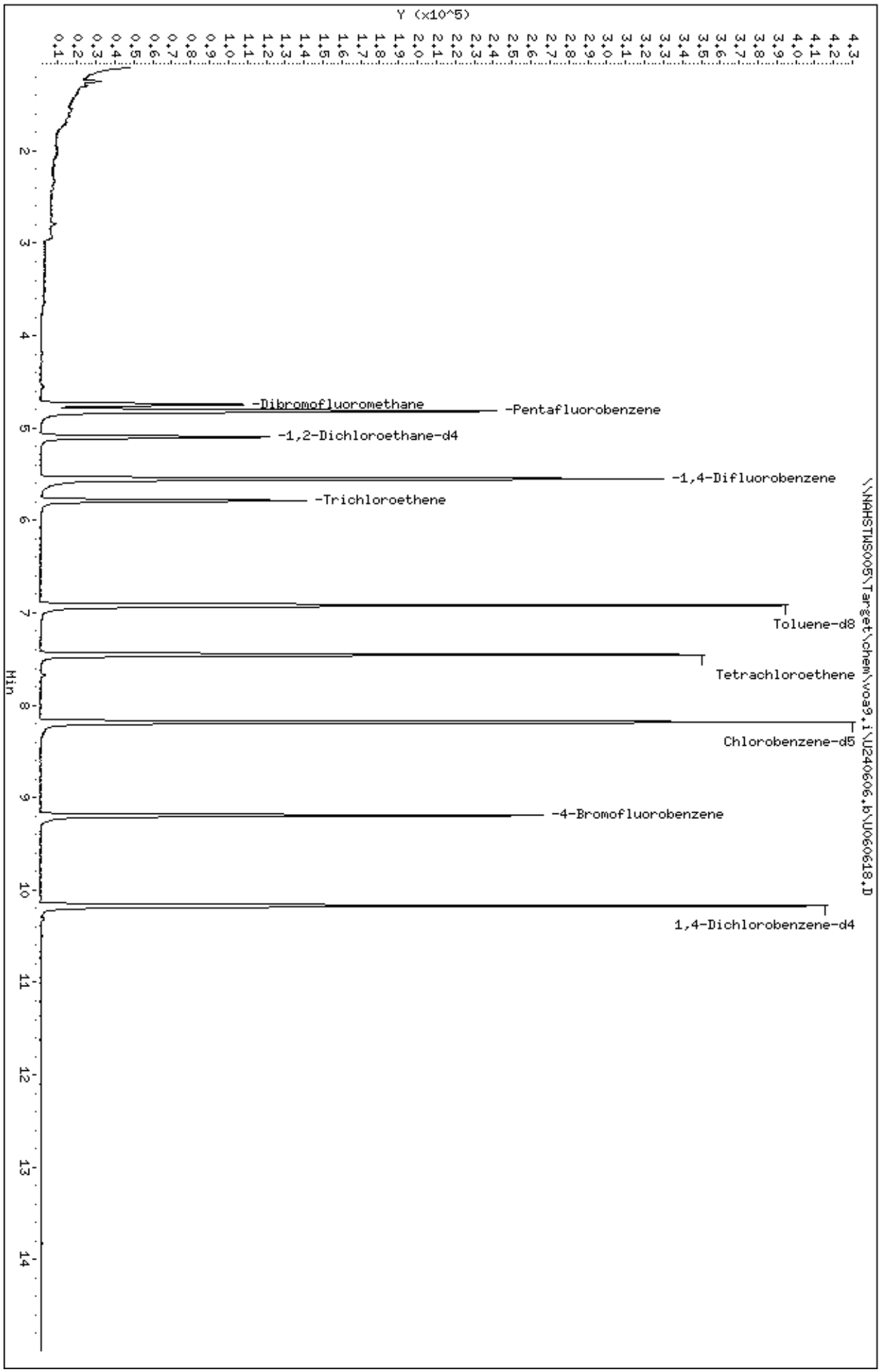
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	5.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
*	1 Pentafluorobenzene	168	4.815	4.815	(1.000)	175146	50.0000	
$	30 Dibromofluoromethane	113	4.748	4.744	(0.986)	63483	50.2857	50.28
$	35 1,2-Dichloroethane-d4	65	5.097	5.096	(1.058)	82780	53.7842	53.78
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	256831	50.0000	
	38 Trichloroethene	130	5.786	5.786	(1.043)	45423	35.5132	177.56(H)
*	47 Chlorobenzene-d5	117	8.182	8.182	(1.000)	231579	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.846)	240336	51.6788	51.67
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	76449	76.0759	380.37(H)
$	69 4-Bromofluorobenzene	95	9.194	9.190	(1.124)	82443	48.9996	48.99
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	109835	50.0000	

QC Flag Legend

H - Operator selected an alternate compound hit.



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060618.D
Date : 06-JUN-2024 16:39
Client ID:
Sample Info: HS24051959-05
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060618.D

Date : 06-JUN-2024 16:39

Client ID:

Instrument: VOA9.i

Sample Info: HS24051959-05

Purge Volume: 5.0

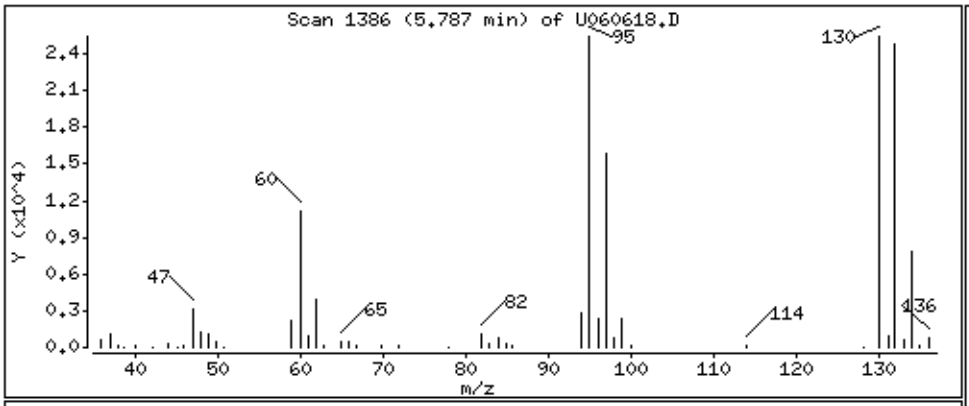
Operator: TS

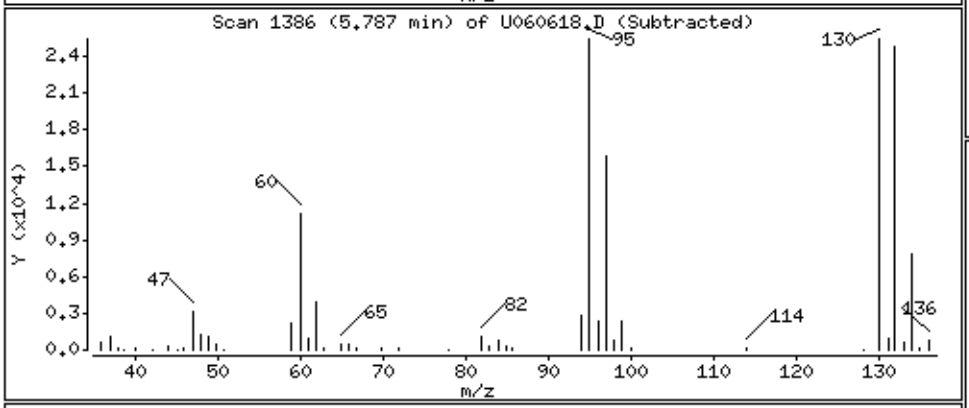
Column phase: DB624

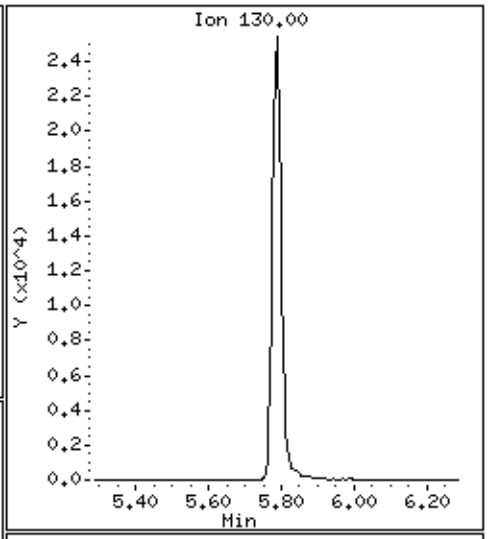
Column diameter: 0.18

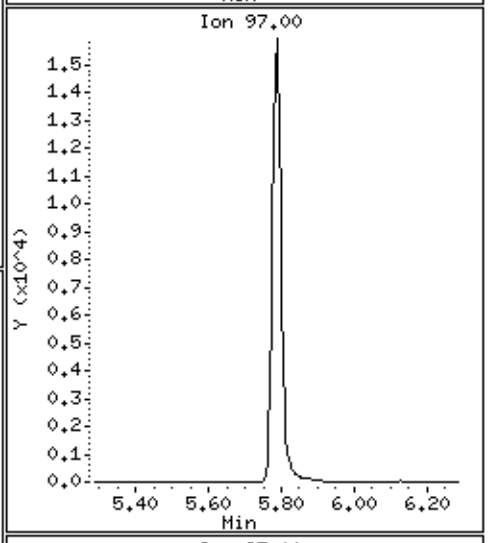
38 Trichloroethene

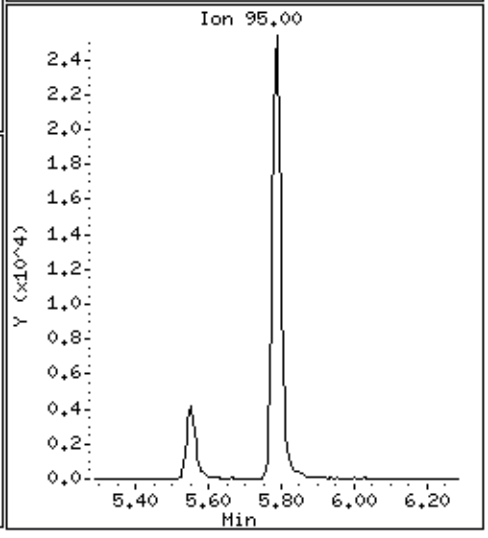
Concentration: 177.56 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060618.D Page 3

Date : 06-JUN-2024 16:39

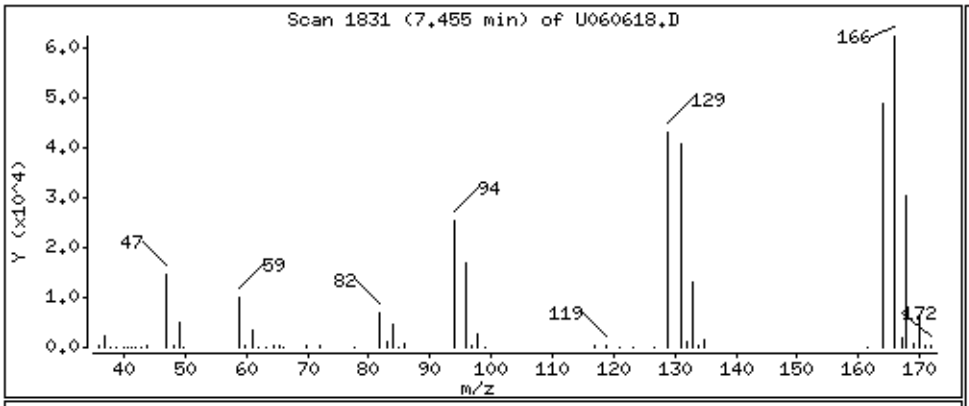
Client ID: Instrument: VOA9.i

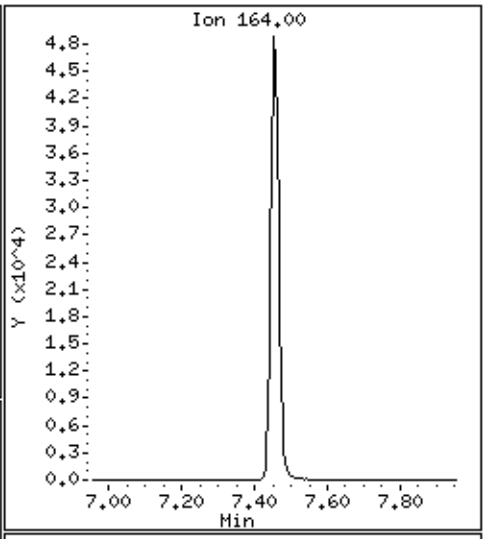
Sample Info: HS24051959-05

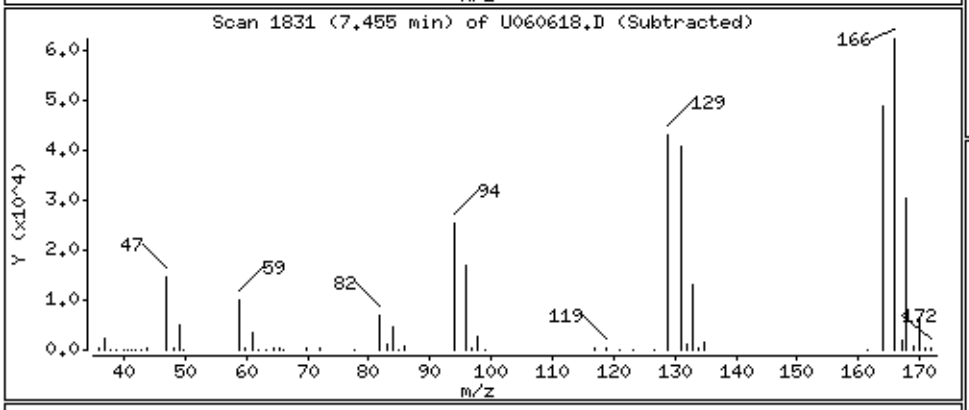
Purge Volume: 5.0 Operator: TS

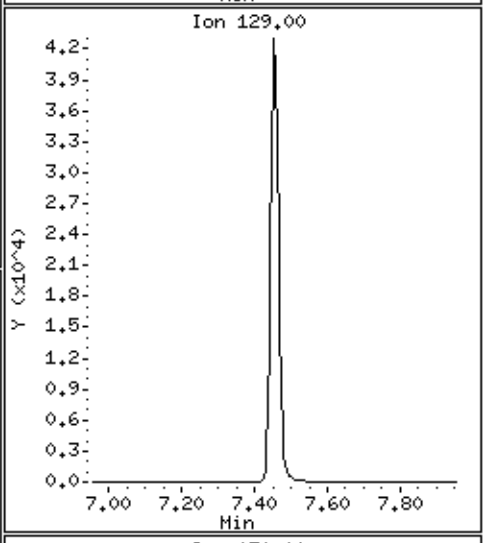
Column phase: DB624 Column diameter: 0.18

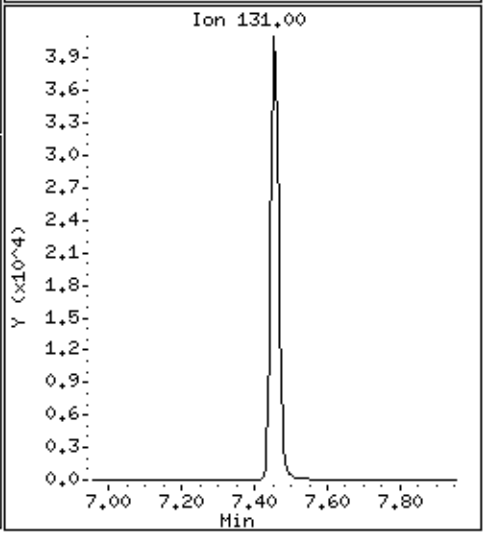
56 Tetrachloroethene Concentration: 380.37 ug/l











Data File : \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060618.D
Inj Date : 06-JUN-2024 16:39
InstruID : VOA9.i
LabSampID : HS24051959-05

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060619.D Page 1
Report Date: 22-Jun-2024 12:42

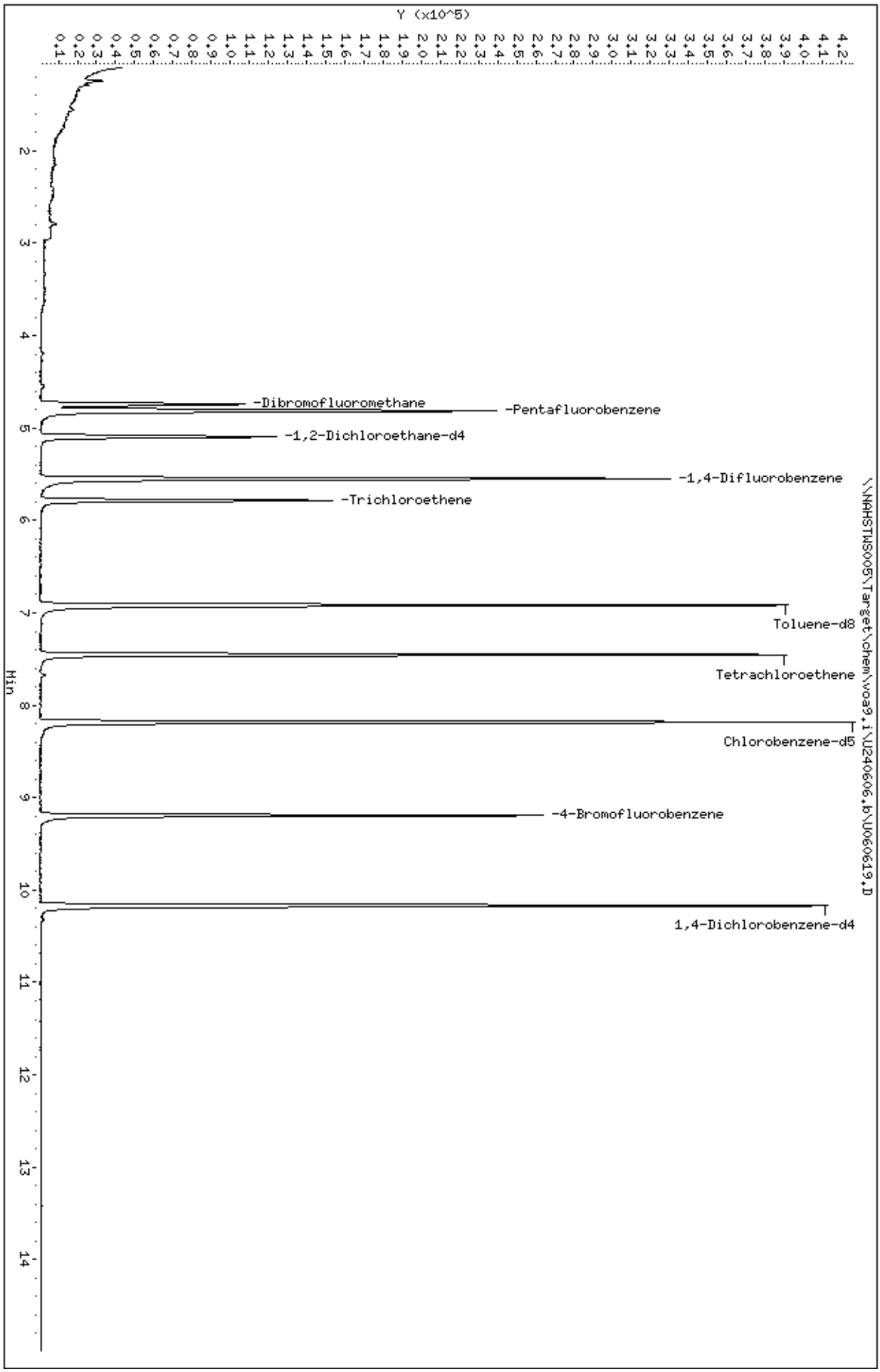
ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060619.D
Lab Smp Id: HS24051959-06
Inj Date : 06-JUN-2024 17:03
Operator : TS   Inst ID: VOA9.i
Smp Info : HS24051959-06
Misc Info : V9;WATER;0;5;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240606.b\8260C.m
Meth Date : 22-Jun-2024 12:40 r.patel   Quant Type: ISTD
Cal Date : 05-JUN-2024 20:24   Cal File: W060506.D
Als bottle: 17
Dil Factor: 5.00000
Integrator: HP RTE   Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	5.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
*	1 Pentafluorobenzene	168	4.811	4.815	(1.000)	174398	50.0000	
$	30 Dibromofluoromethane	113	4.744	4.744	(0.986)	63021	50.1339	50.13
$	35 1,2-Dichloroethane-d4	65	5.093	5.096	(1.058)	82328	53.7199	53.71
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	256395	50.0000	
	38 Trichloroethene	130	5.786	5.786	(1.043)	49313	38.6201	193.10
*	47 Chlorobenzene-d5	117	8.181	8.182	(1.000)	229291	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.846)	240407	52.2099	52.20
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	86372	86.8081	434.04
$	69 4-Bromofluorobenzene	95	9.194	9.190	(1.124)	80947	48.5905	48.59
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	111383	50.0000	


Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060619.D
Date : 06-JUN-2024 17:03
Client ID:
Sample Info: HS24051959-06
Purge Volume: 5.0
Column phase: DB624
Instrument: VOA9.i
Operator: TS
Column diameter: 0.18
Y (x10^5)
Min
-Dibromofluoromethane
-Pentafluorobenzene
-1,2-Dichloroethane-d4
-1,4-Difluorobenzene
-Trichloroethene
Toluene-d8
Tetrachloroethene
Chlorobenzene-d5
-4-Bromofluorobenzene
1,4-Dichlorobenzene-d4
\\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060619.D

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060619.D Page 2

Date : 06-JUN-2024 17:03

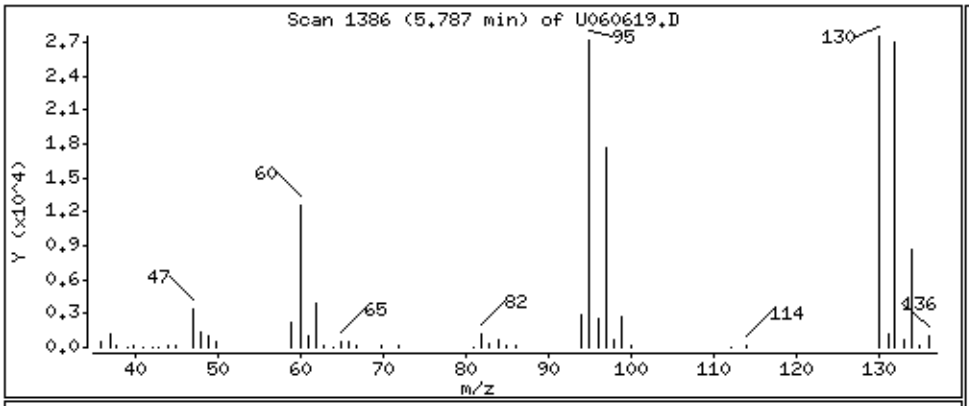
Client ID: Instrument: VOA9.i

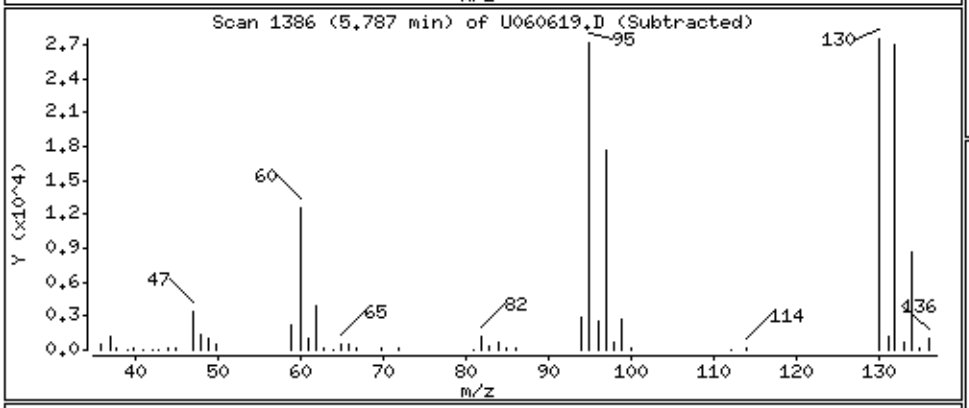
Sample Info: HS24051959-06

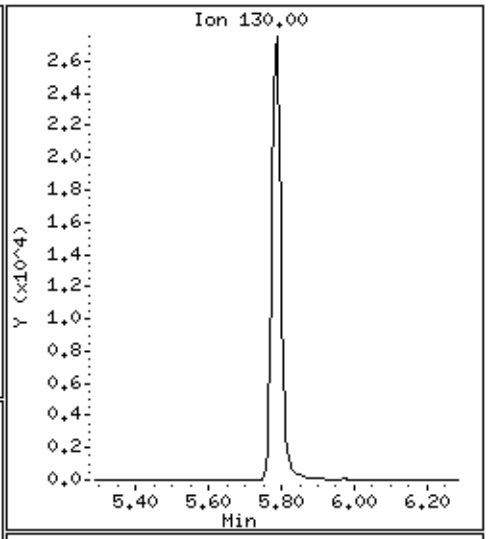
Purge Volume: 5.0 Operator: TS

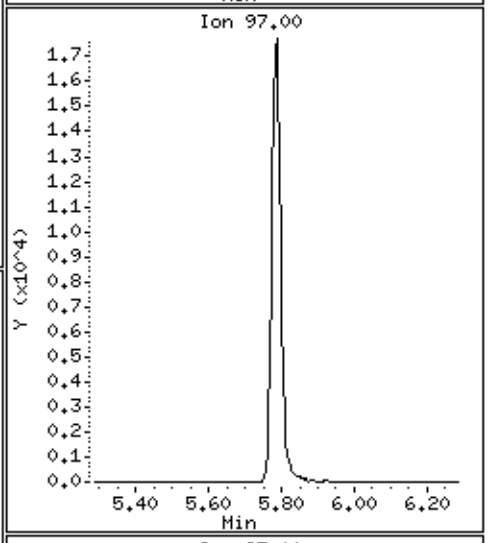
Column phase: DB624 Column diameter: 0.18

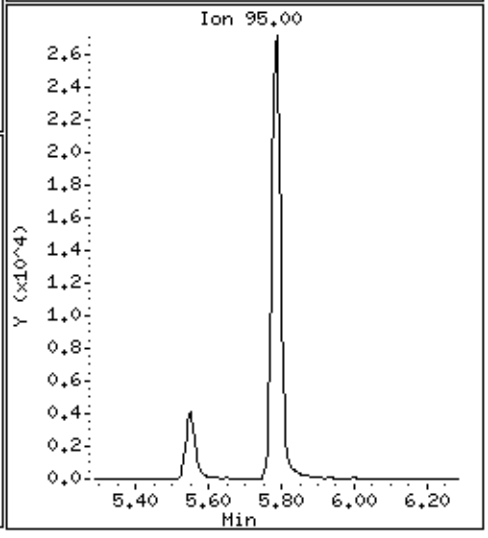
38 Trichloroethene Concentration: 193.10 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060619.D

Date : 06-JUN-2024 17:03

Client ID:

Instrument: VOA9.i

Sample Info: HS24051959-06

Purge Volume: 5.0

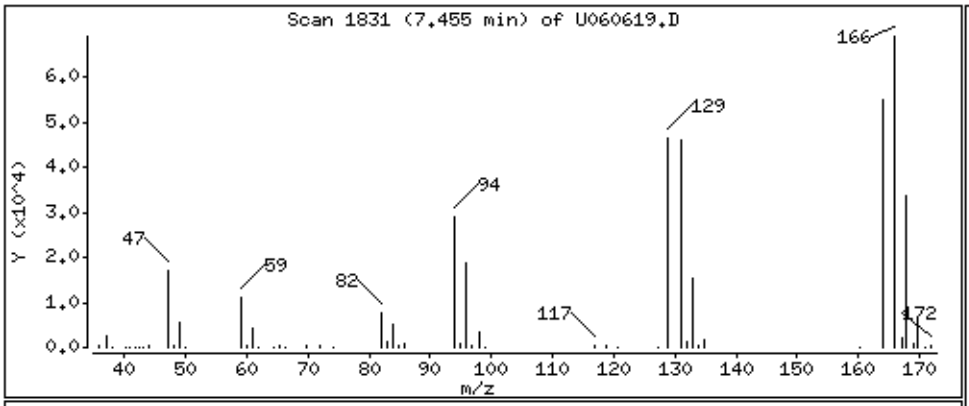
Operator: TS

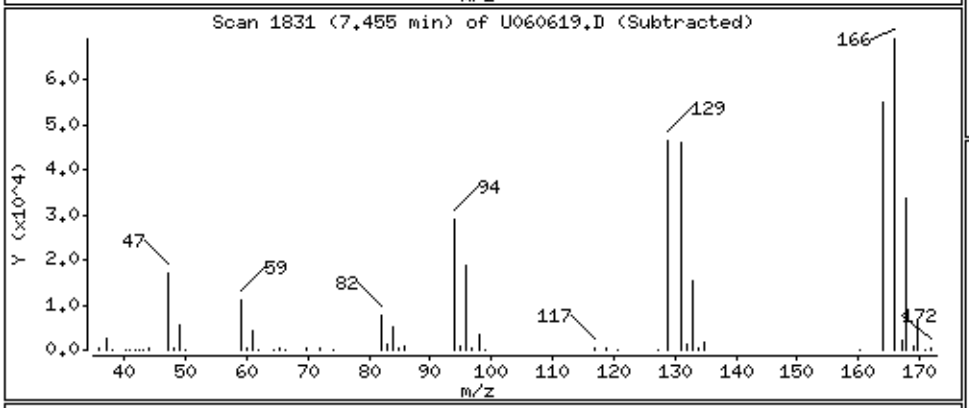
Column phase: DB624

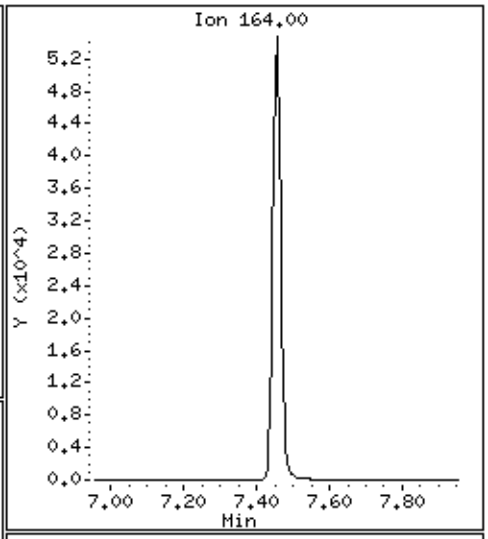
Column diameter: 0.18

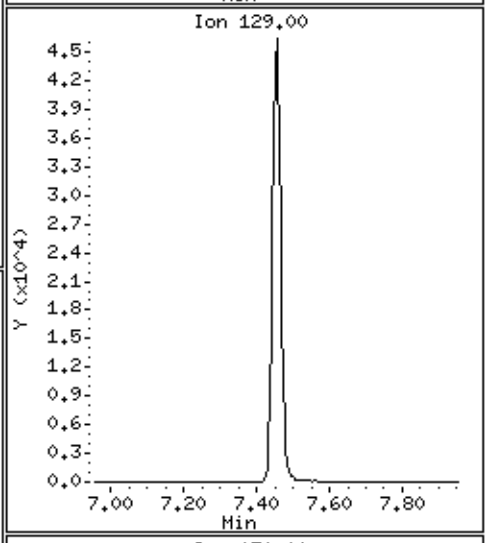
56 Tetrachloroethene

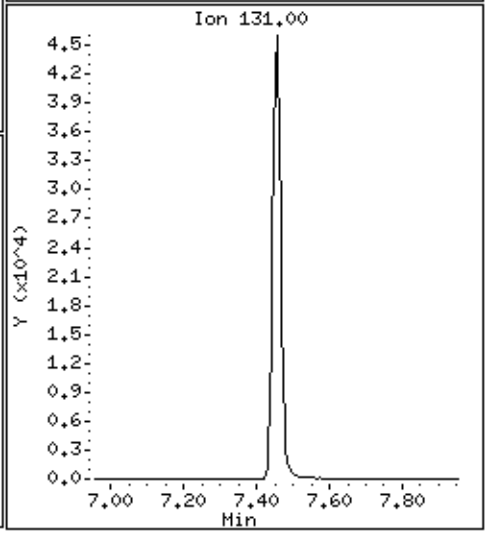
Concentration: 434.04 ug/l











Data File : \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060619.D
Inj Date : 06-JUN-2024 17:03
InstruID : VOA9.i
LabSampID : HS24051959-06

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060620.D Page 1
Report Date: 22-Jun-2024 12:42

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060620.D
Lab Smp Id: HS24051959-08
Inj Date : 06-JUN-2024 17:24
Operator : TS   Inst ID: VOA9.i
Smp Info : HS24051959-08
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240606.b\8260C.m
Meth Date : 22-Jun-2024 12:40 r.patel   Quant Type: ISTD
Cal Date : 05-JUN-2024 20:24   Cal File: W060506.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

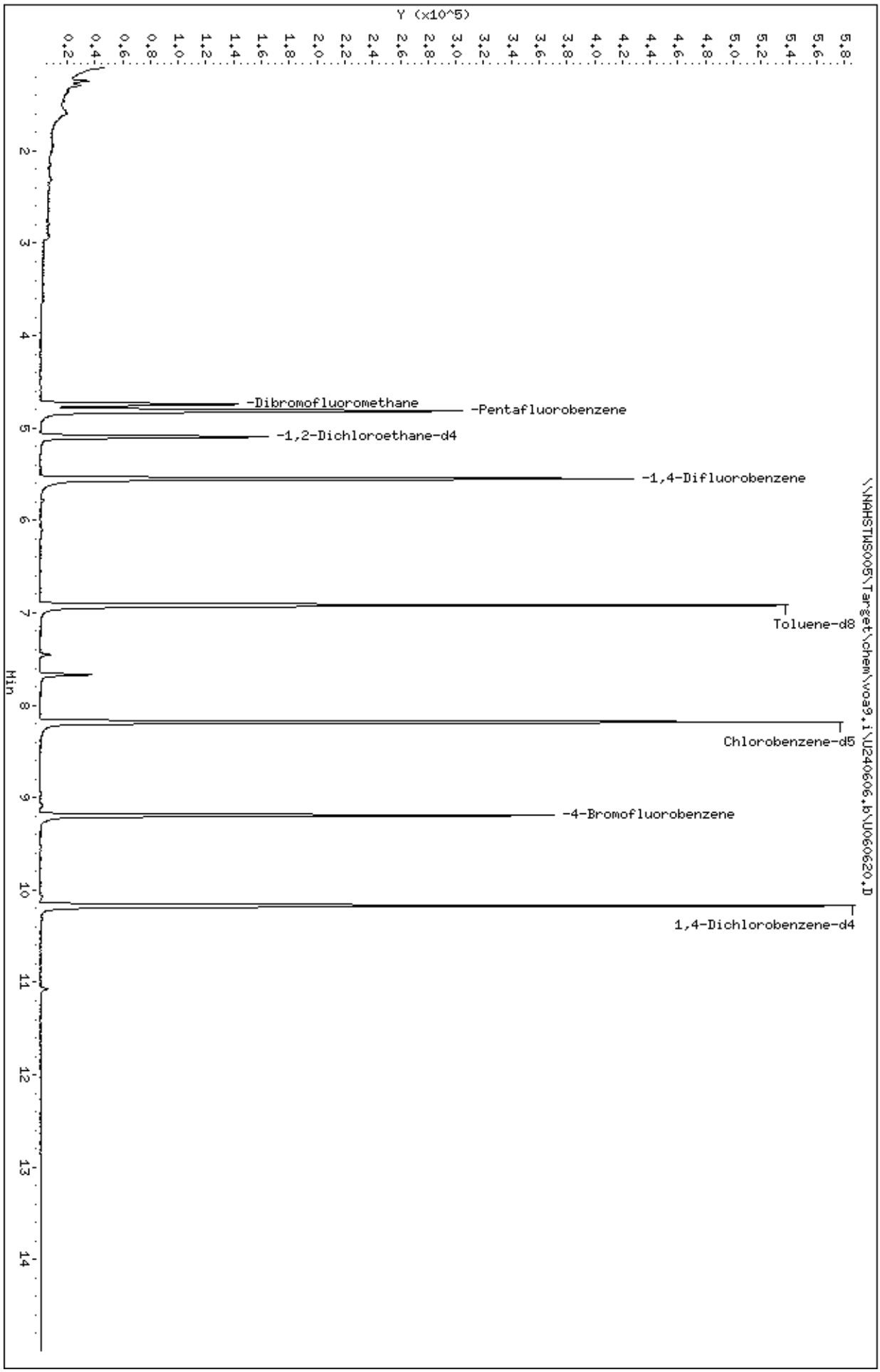
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.812	4.815	(1.000)	222297	50.0000	
$ 30 Dibromofluoromethane	113	4.744	4.744	(0.986)	83422	52.0636	52.06
$ 35 1,2-Dichloroethane-d4	65	5.093	5.096	(1.058)	109686	56.1497	56.14
* 36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	326756	50.0000	
* 47 Chlorobenzene-d5	117	8.182	8.182	(1.000)	301976	50.0000	
$ 48 Toluene-d8	98	6.918	6.918	(0.846)	324557	53.5195	53.51
$ 69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	112031	51.0627	51.06
* 70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	151532	50.0000	

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060620.D
Date : 06-JUN-2024 17:24
Client ID:
Sample Info: HS24051959-08
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18



Data File : \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060620.D
Inj Date : 06-JUN-2024 17:24
InstruID : VOA9.i
LabSampID : HS24051959-08

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060621.D Page 1
Report Date: 22-Jun-2024 12:42

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060621.D
Lab Smp Id: HS24051959-09
Inj Date : 06-JUN-2024 17:46
Operator : TS   Inst ID: VOA9.i
Smp Info : HS24051959-09
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240606.b\8260C.m
Meth Date : 22-Jun-2024 12:40 r.patel   Quant Type: ISTD
Cal Date : 05-JUN-2024 20:24   Cal File: W060506.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.811	4.815	(1.000)	218164	50.0000	
$ 30 Dibromofluoromethane	113	4.740	4.744	(0.985)	83935	53.3762	53.37
$ 35 1,2-Dichloroethane-d4	65	5.089	5.096	(1.058)	108225	56.4513	56.45
* 36 1,4-Difluorobenzene	114	5.546	5.550	(1.000)	322073	50.0000	
* 47 Chlorobenzene-d5	117	8.181	8.182	(1.000)	296193	50.0000	
$ 48 Toluene-d8	98	6.918	6.918	(0.846)	320827	53.9373	53.93
$ 69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	111972	52.0322	52.03
* 70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	146320	50.0000	

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060621.D

Date : 06-JUN-2024 17:46

Client ID:

Instrument: VOA9.i

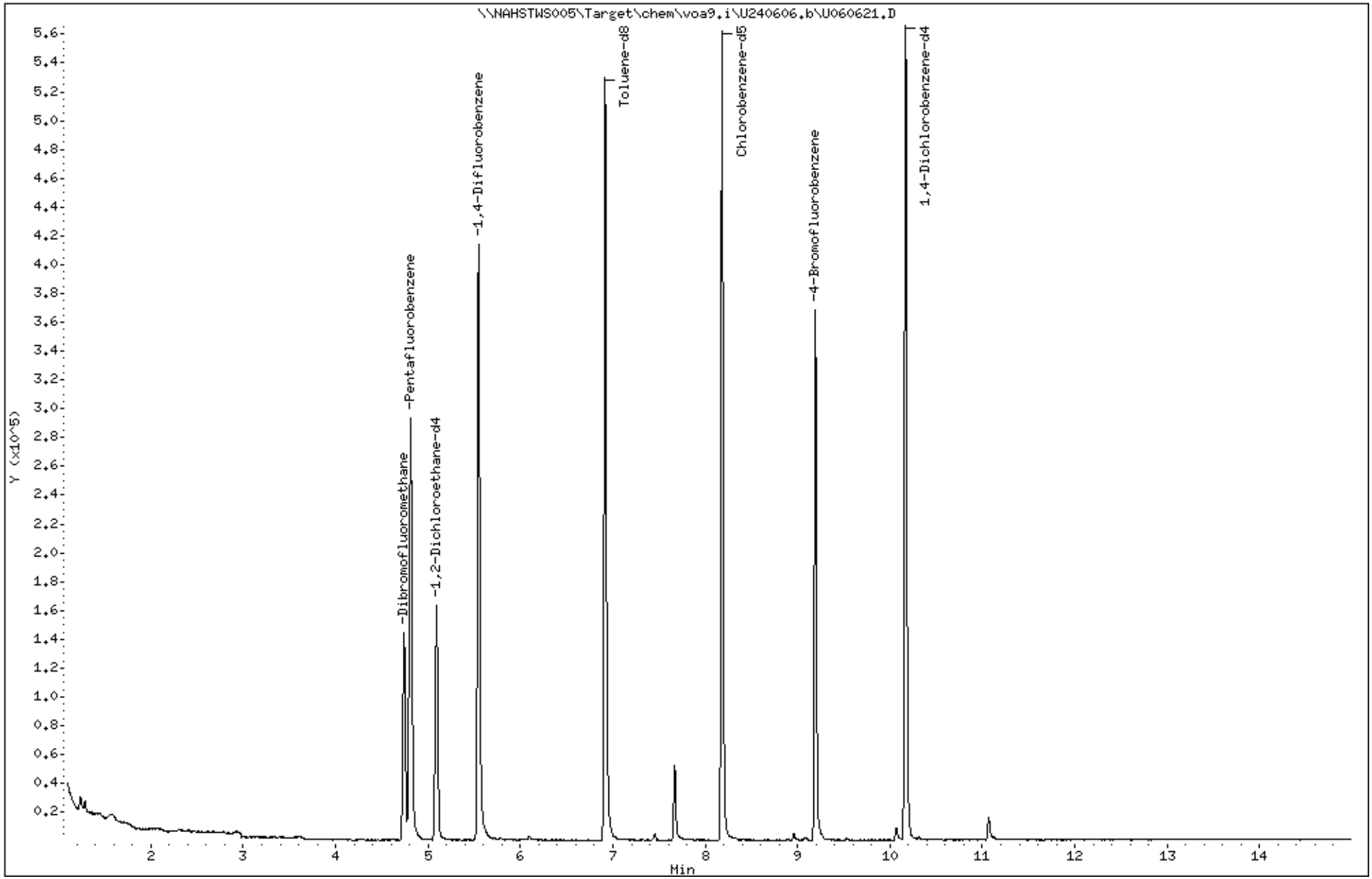
Sample Info: HS24051959-09

Purge Volume: 5.0

Operator: TS

Column phase: DB624

Column diameter: 0.18



Data File : \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060621.D
Inj Date : 06-JUN-2024 17:46
InstruID : VOA9.i
LabSampID : HS24051959-09

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060622.D Page 1
Report Date: 22-Jun-2024 12:42

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060622.D
Lab Smp Id: HS24051959-10
Inj Date : 06-JUN-2024 18:07
Operator : TS   Inst ID: VOA9.i
Smp Info : HS24051959-10
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240606.b\8260C.m
Meth Date : 22-Jun-2024 12:40 r.patel   Quant Type: ISTD
Cal Date : 05-JUN-2024 20:24   Cal File: W060506.D
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

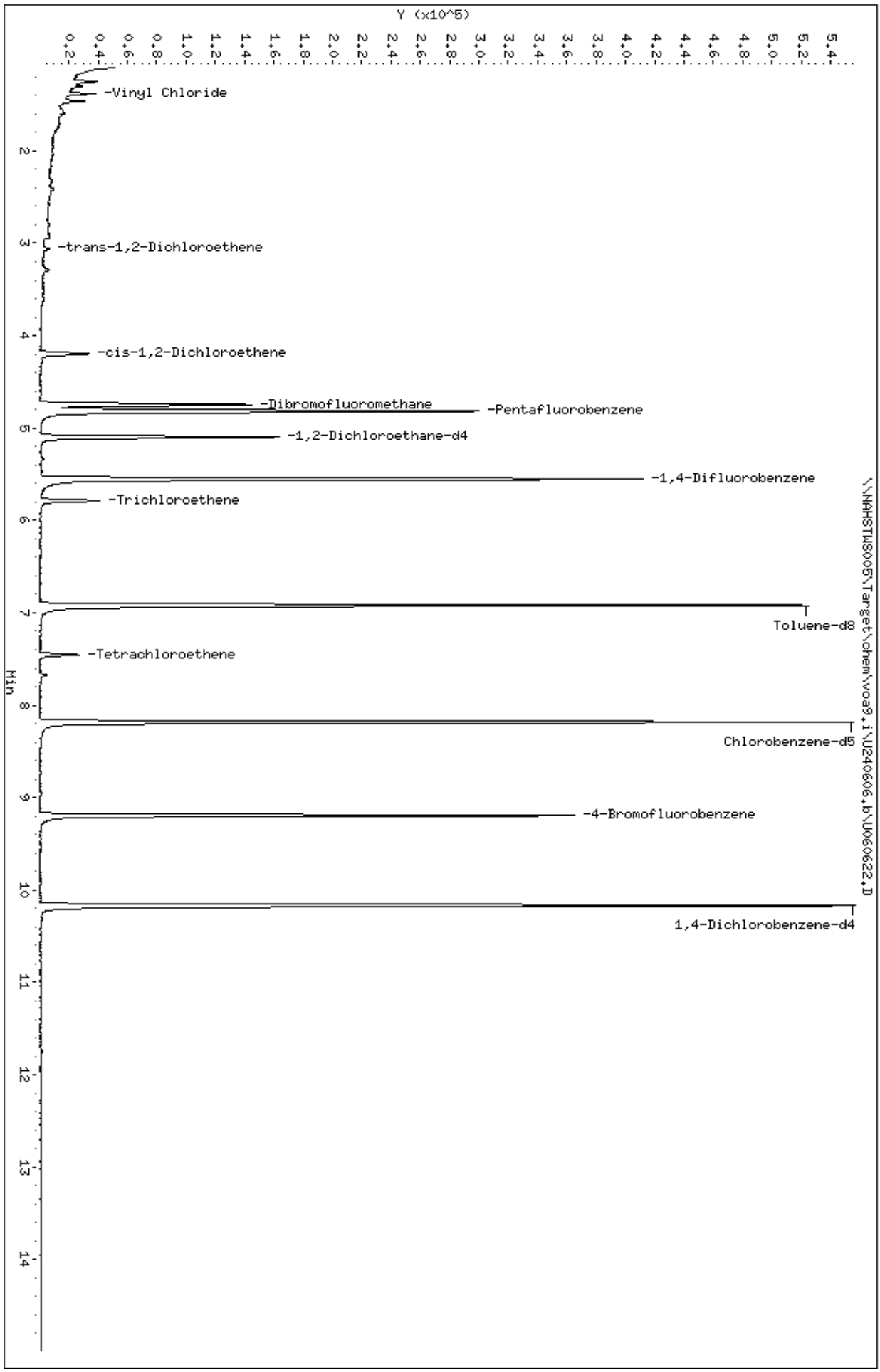
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
*	1 Pentafluorobenzene	168	4.815	4.815	(1.000)	214876	50.0000	
	5 Vinyl Chloride	62	1.381	1.378	(0.287)	11075	7.59012	7.59
	20 trans-1,2-Dichloroethene	96	3.061	3.057	(0.636)	1452	1.17250	1.17
	27 cis-1,2-Dichloroethene	96	4.197	4.193	(0.872)	15361	9.82490	9.82
$	30 Dibromofluoromethane	113	4.748	4.744	(0.986)	82538	53.2910	53.29
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	107166	56.7543	56.75
*	36 1,4-Difluorobenzene	114	5.554	5.550	(1.000)	322554	50.0000	
	38 Trichloroethene	130	5.790	5.786	(1.043)	12451	7.75109	7.75
*	47 Chlorobenzene-d5	117	8.185	8.182	(1.000)	288471	50.0000	
$	48 Toluene-d8	98	6.922	6.918	(0.846)	317668	54.8358	54.83
	56 Tetrachloroethene	164	7.458	7.454	(0.911)	5976	4.77400	4.77(a)
$	69 4-Bromofluorobenzene	95	9.194	9.190	(1.123)	111379	53.1421	53.14
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	146262	50.0000	
M	94 1,2-Dichloroethylene (total)	96				16813	10.5263	10.52

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060622.D
Date : 06-JUN-2024 18:07
Client ID:
Sample Info: HS24051959-10
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060622.D Page 2

Date : 06-JUN-2024 18:07

Client ID:

Instrument: VOA9.i

Sample Info: HS24051959-10

Purge Volume: 5.0

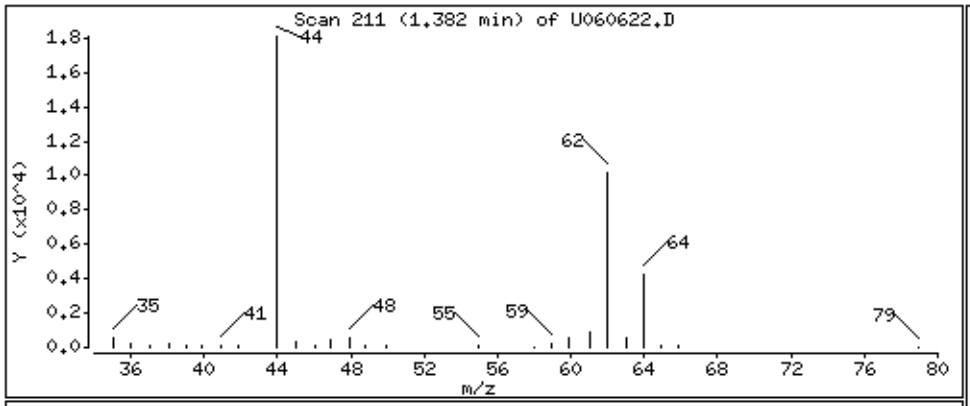
Operator: TS

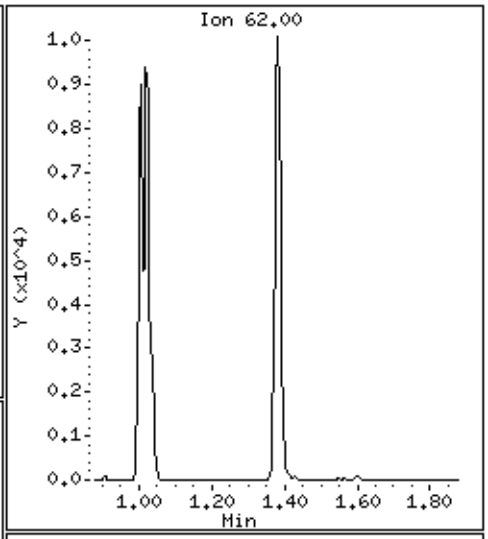
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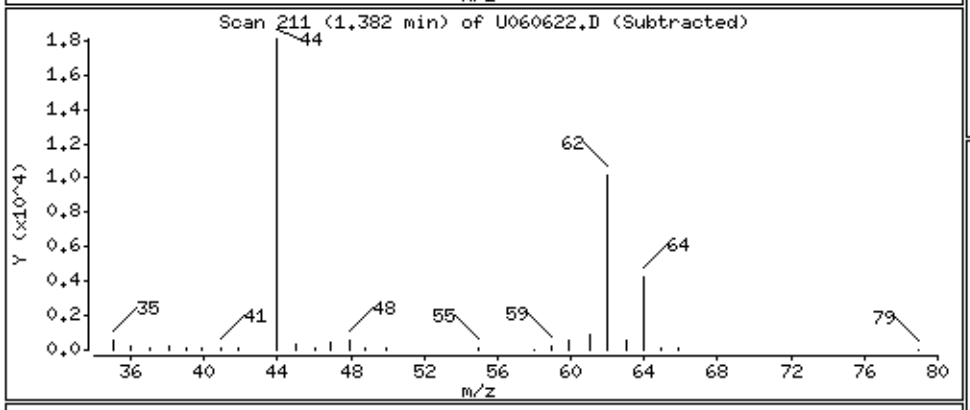
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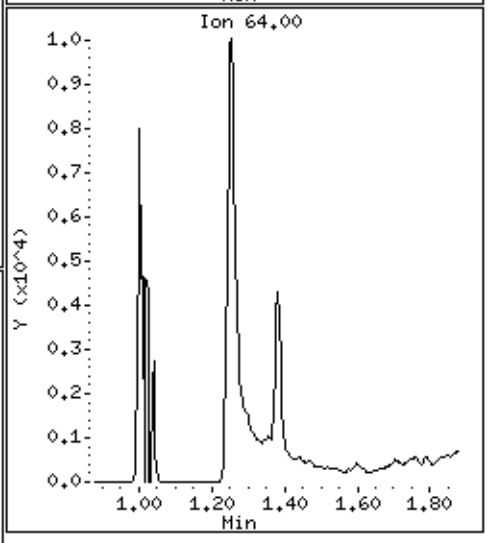
5 Vinyl Chloride

Concentration: 7.59 ug/l









Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060622.D

Date : 06-JUN-2024 18:07

Client ID:

Instrument: VOA9.i

Sample Info: HS24051959-10

Purge Volume: 5.0

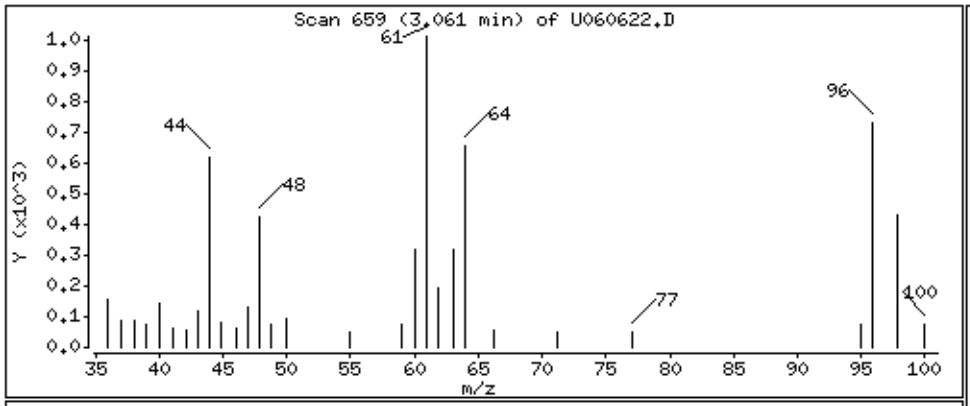
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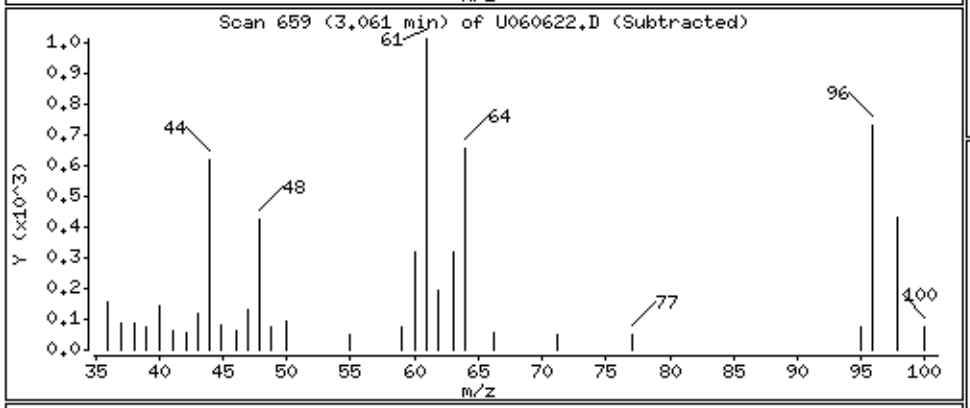
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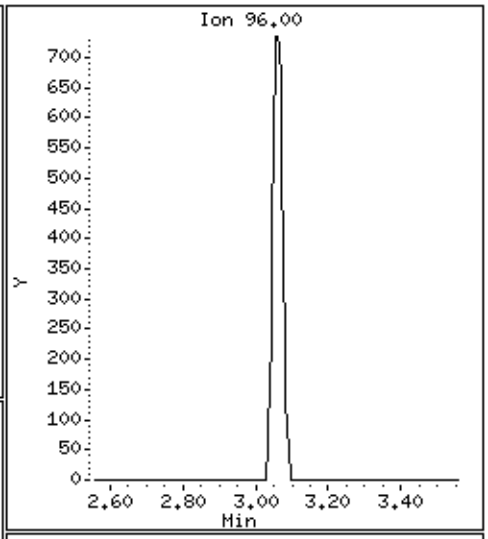
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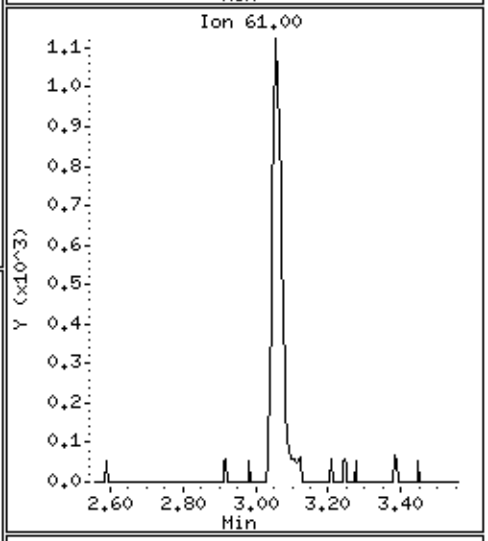
20 trans-1,2-Dichloroethene

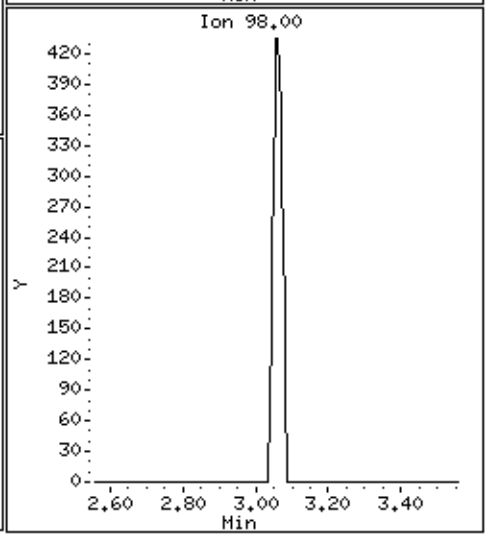
Concentration: 1.17 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060622.D

Date : 06-JUN-2024 18:07

Client ID:

Instrument: VOA9.i

Sample Info: HS24051959-10

Purge Volume: 5.0

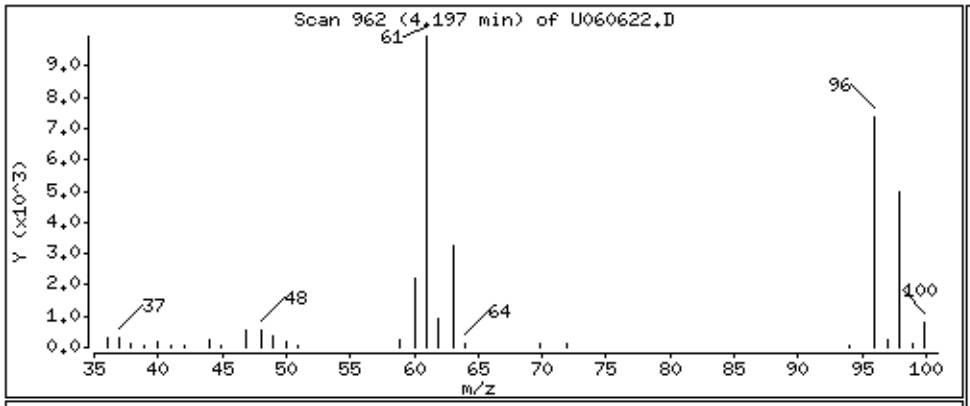
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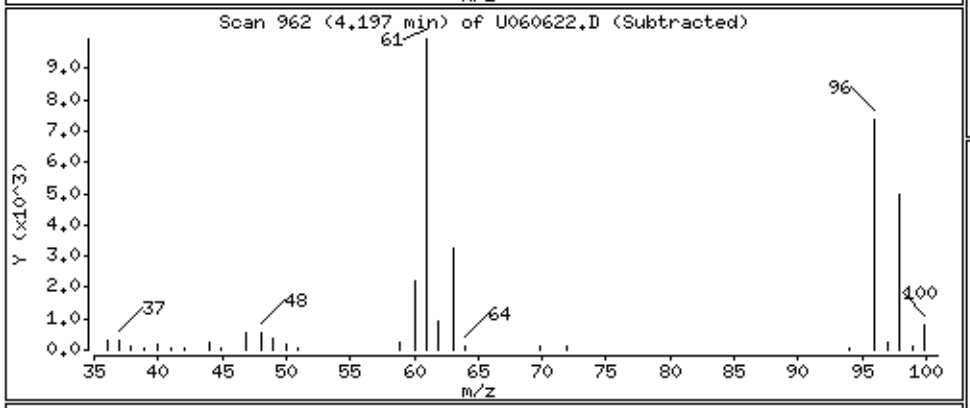
Column phase: DB624

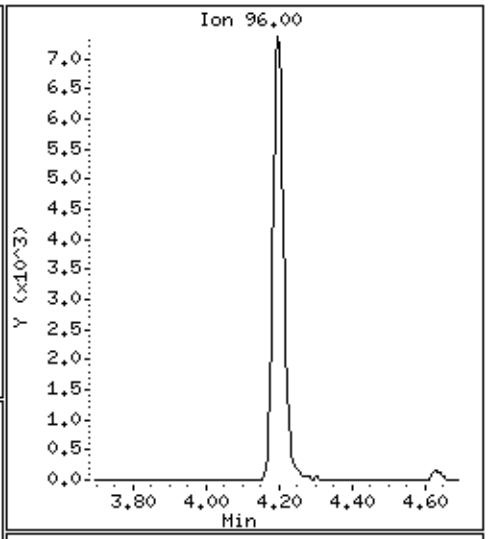
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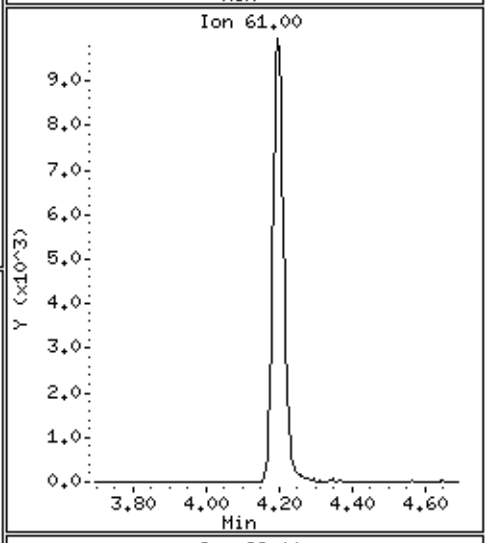
27 cis-1,2-Dichloroethene

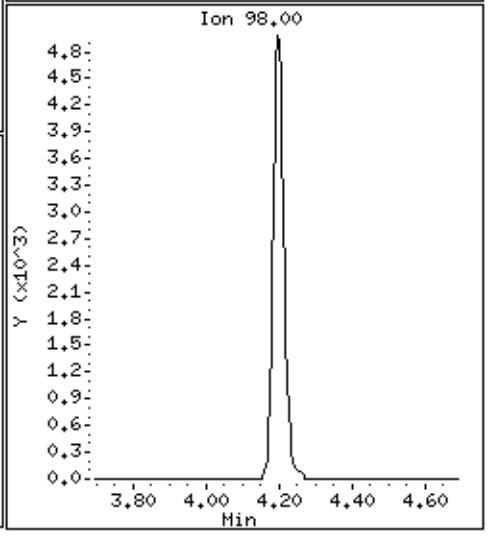
Concentration: 9.82 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060622.D Page 5

Date : 06-JUN-2024 18:07

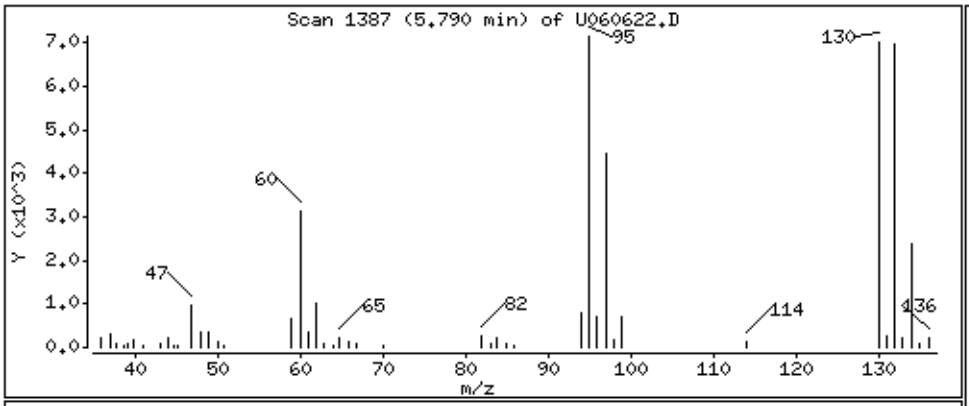
Client ID: Instrument: VOA9.i

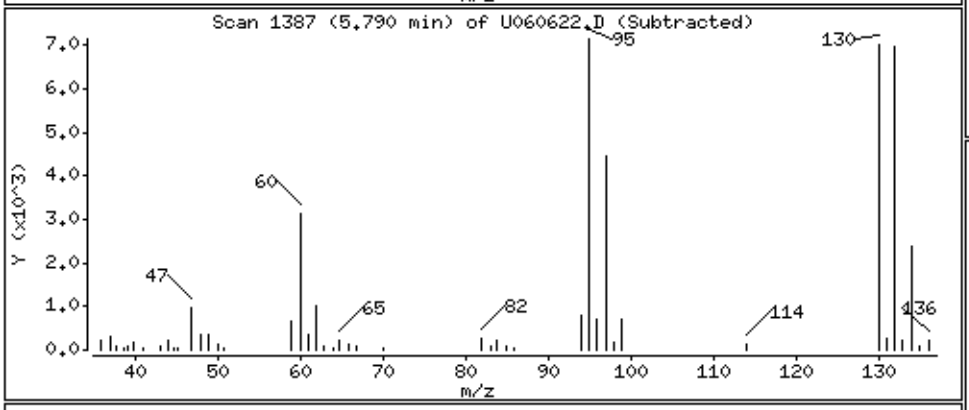
Sample Info: HS24051959-10

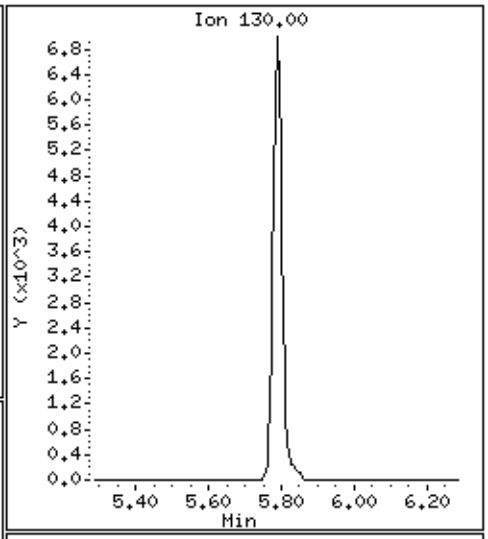
Purge Volume: 5.0 Operator: TS

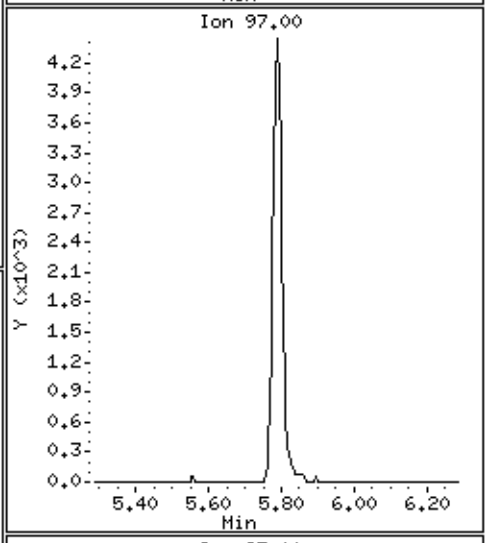
Column phase: DB624 Column diameter: 0.18

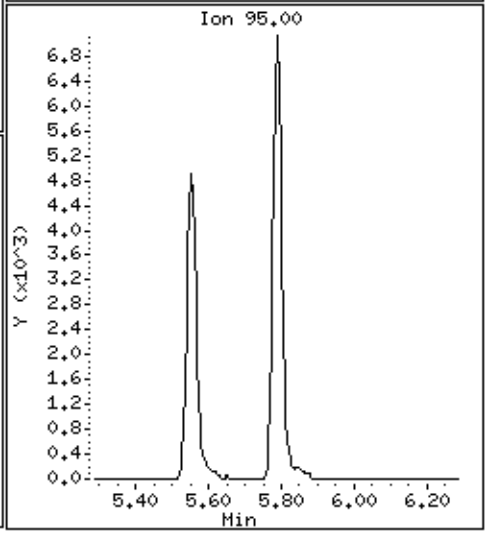
38 Trichloroethene Concentration: 7.75 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060622.D

Date : 06-JUN-2024 18:07

Client ID:

Instrument: VOA9.i

Sample Info: HS24051959-10

Purge Volume: 5.0

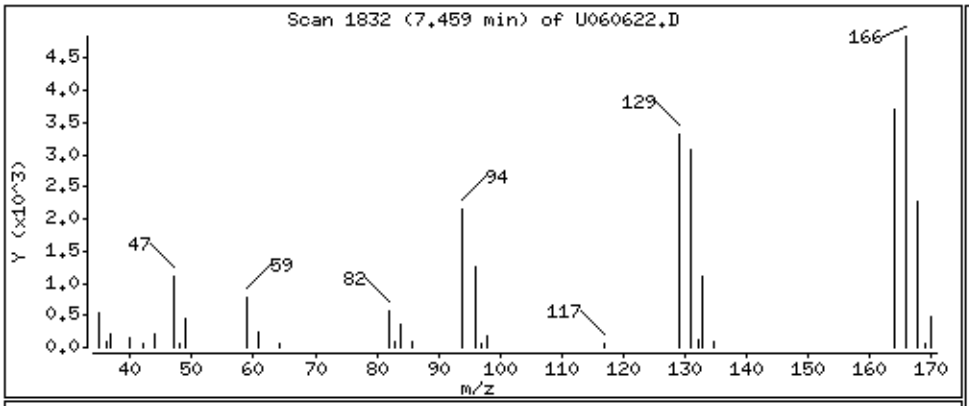
Operator: TS

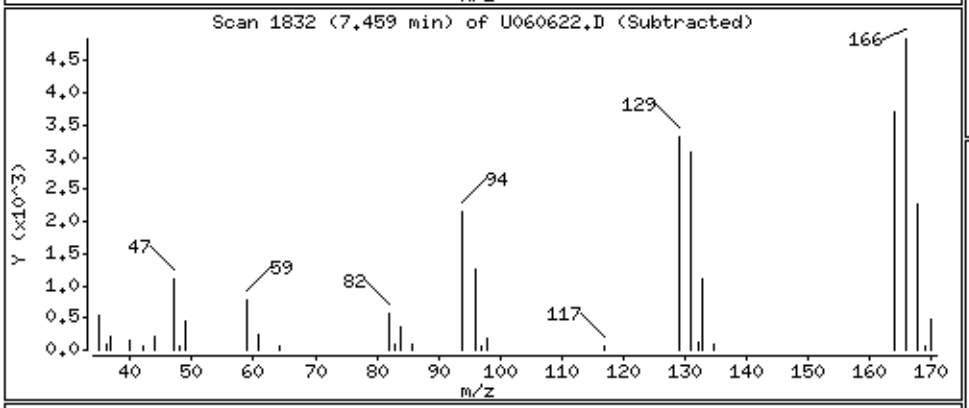
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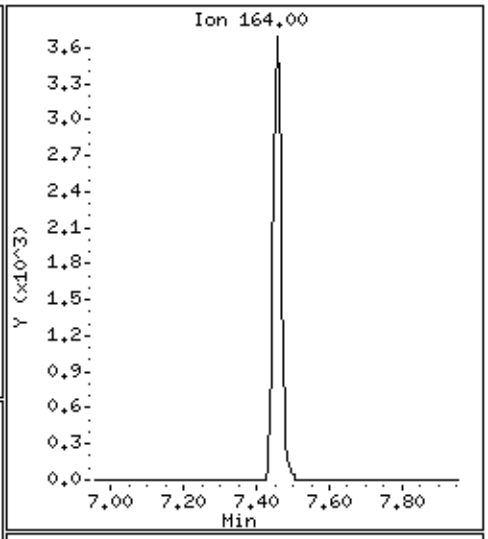
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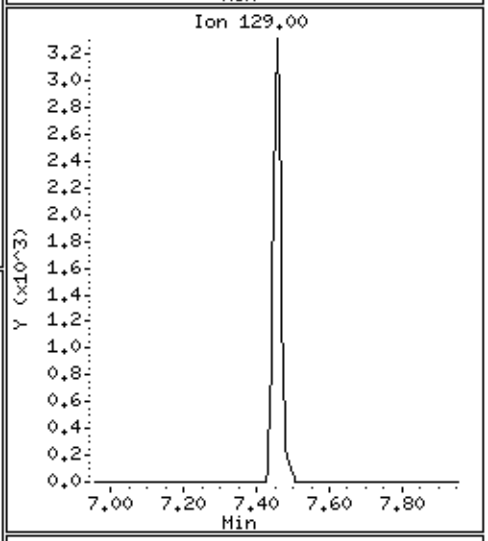
56 Tetrachloroethene

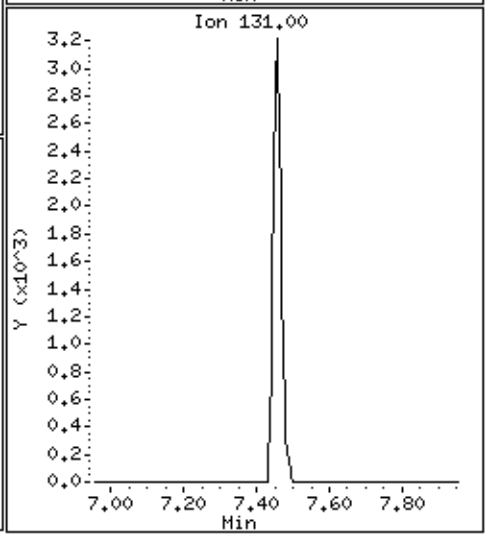
Concentration: 4.77 ug/l











Data File : \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060622.D
Inj Date : 06-JUN-2024 18:07
InstruID : VOA9.i
LabSampID : HS24051959-10

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060623.D Page 1
Report Date: 22-Jun-2024 12:42

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060623.D
Lab Smp Id: HS24051959-11
Inj Date : 06-JUN-2024 18:29
Operator : TS   Inst ID: VOA9.i
Smp Info : HS24051959-11
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240606.b\8260C.m
Meth Date : 22-Jun-2024 12:40 r.patel   Quant Type: ISTD
Cal Date : 05-JUN-2024 20:24   Cal File: W060506.D
Als bottle: 21
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

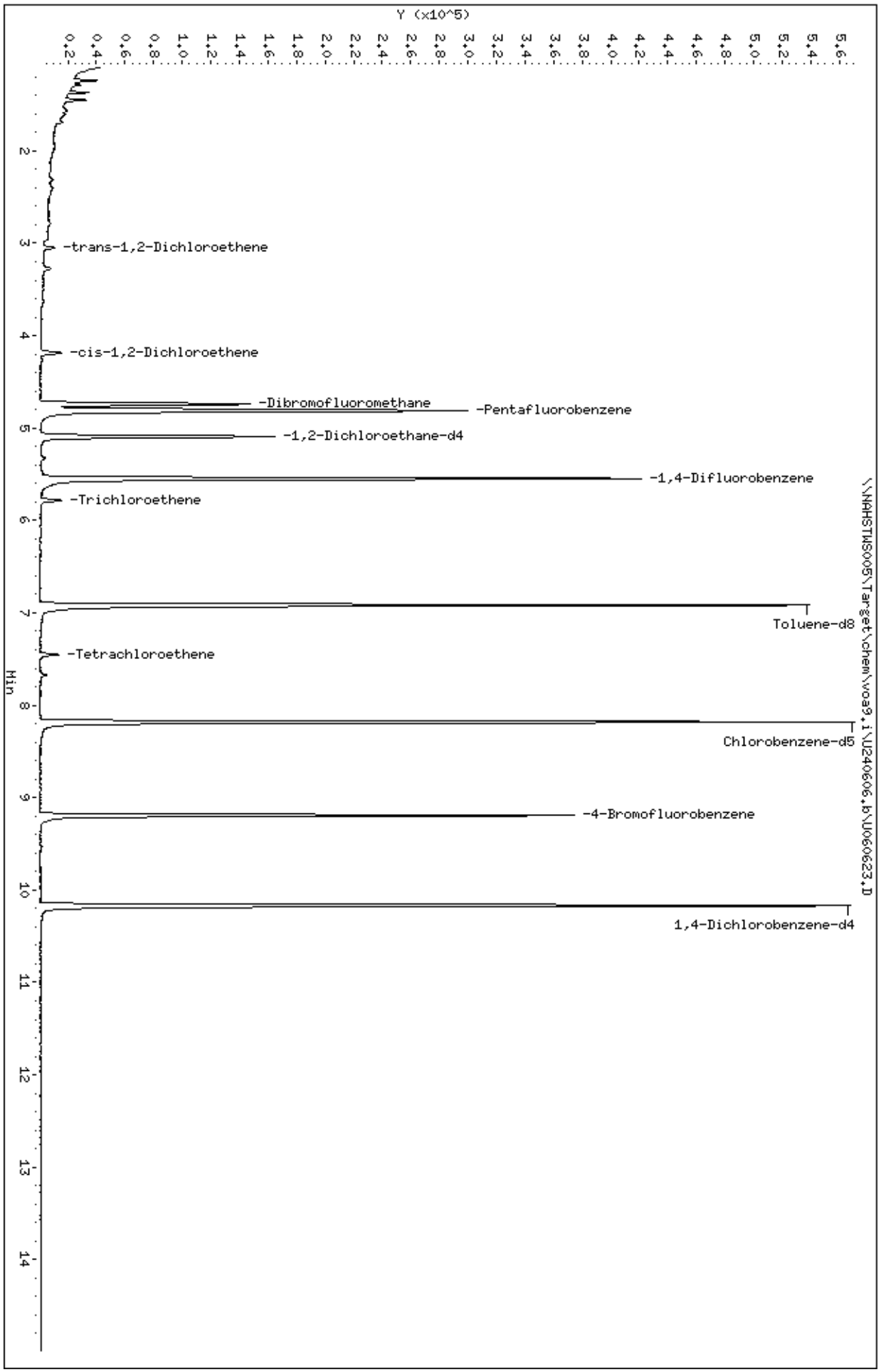
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
*	1 Pentafluorobenzene	168	4.811	4.815	(1.000)	223975	50.0000	
	20 trans-1,2-Dichloroethene	96	3.050	3.057	(0.634)	2774	2.08777	2.08
	27 cis-1,2-Dichloroethene	96	4.189	4.193	(0.871)	6795	4.26772	4.26
$	30 Dibromofluoromethane	113	4.740	4.744	(0.985)	85749	53.1150	53.11
$	35 1,2-Dichloroethane-d4	65	5.093	5.096	(1.058)	111180	56.4881	56.48
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	333924	50.0000	
	38 Trichloroethene	130	5.782	5.786	(1.042)	4670	2.80822	2.80(a)
*	47 Chlorobenzene-d5	117	8.182	8.182	(1.000)	301196	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.846)	326803	54.0294	54.02
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	3012	2.30452	2.30(aH)
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	112383	51.3558	51.35
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	149658	50.0000	
M	94 1,2-Dichloroethylene (total)	96				9569	5.74760	5.74(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
H - Operator selected an alternate compound hit.



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060623.D
Date : 06-JUN-2024 18:29
Client ID:
Sample Info: HS24051959-11
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060623.D

Date : 06-JUN-2024 18:29

Client ID:

Instrument: VOA9.i

Sample Info: HS24051959-11

Purge Volume: 5.0

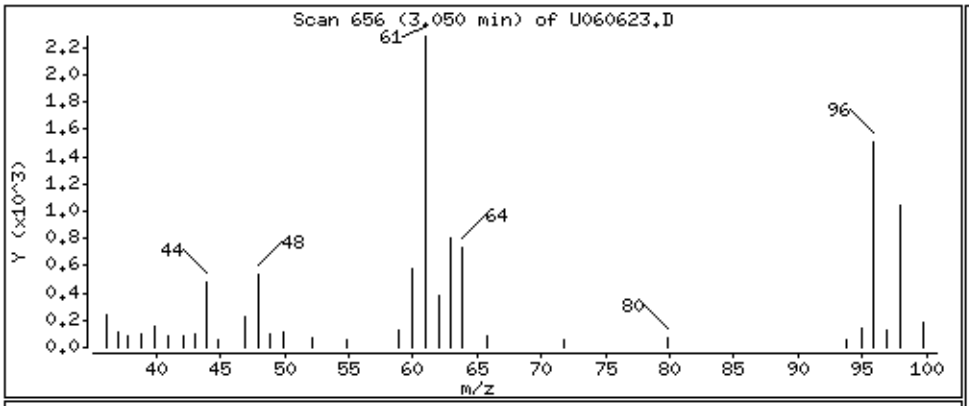
Operator: TS

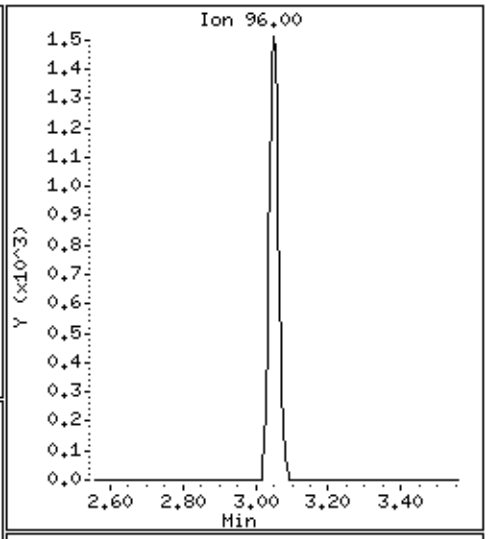
Column phase: DB624

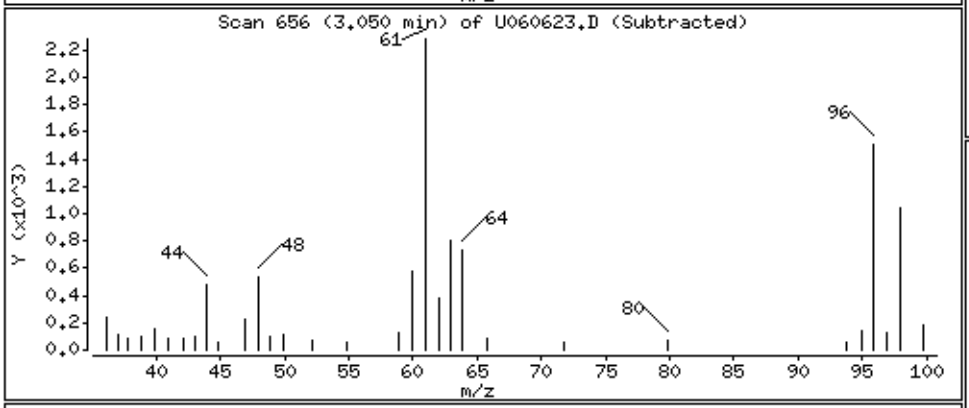
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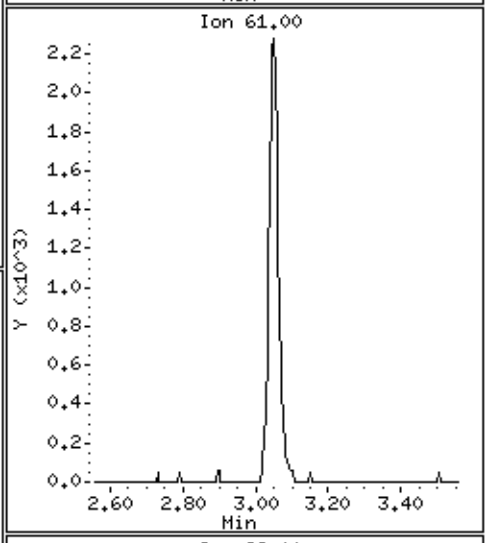
20 trans-1,2-Dichloroethene

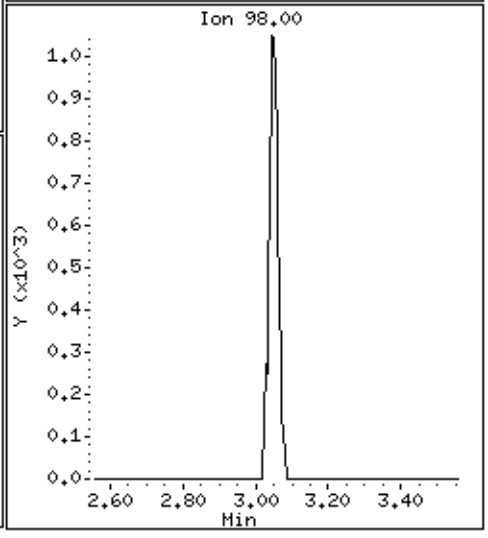
Concentration: 2.08 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060623.D Page 3

Date : 06-JUN-2024 18:29

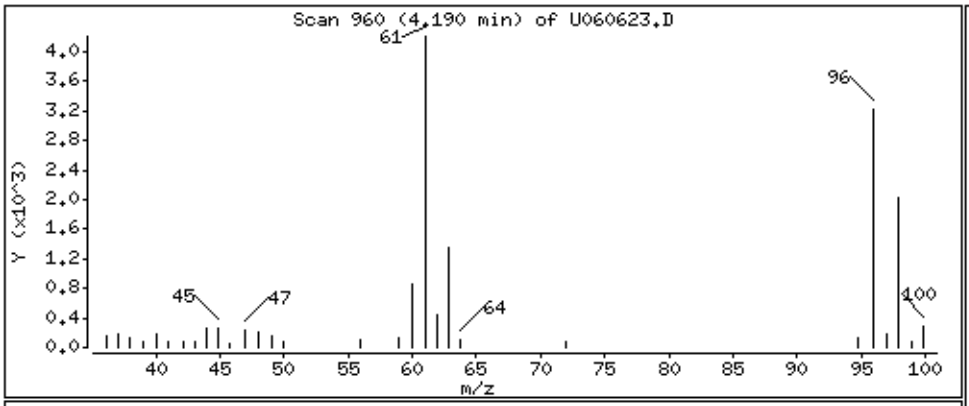
Client ID: Instrument: VOA9.i

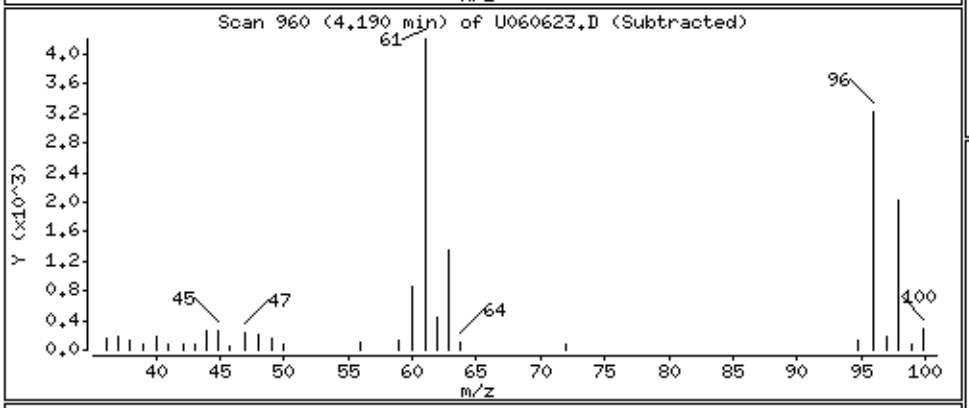
Sample Info: HS24051959-11

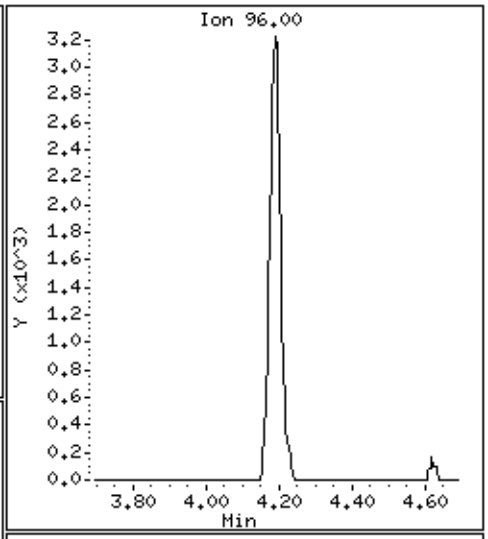
Purge Volume: 5.0 Operator: TS

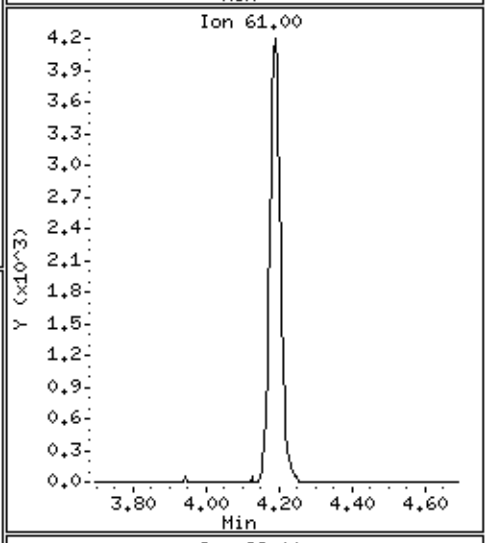
Column phase: DB624 Column diameter: 0.18

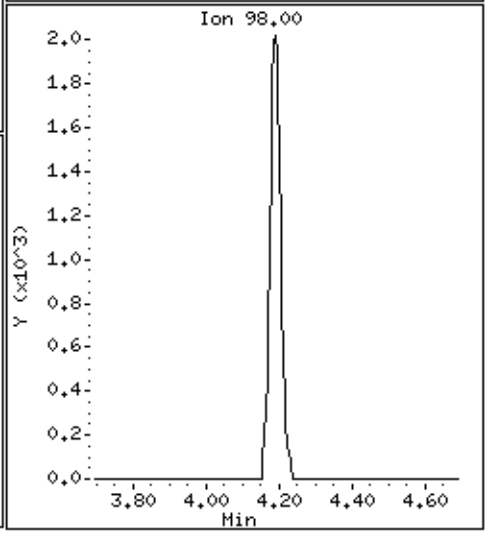
27 cis-1,2-Dichloroethene Concentration: 4.26 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060623.D

Date : 06-JUN-2024 18:29

Client ID:

Instrument: VOA9.i

Sample Info: HS24051959-11

Purge Volume: 5.0

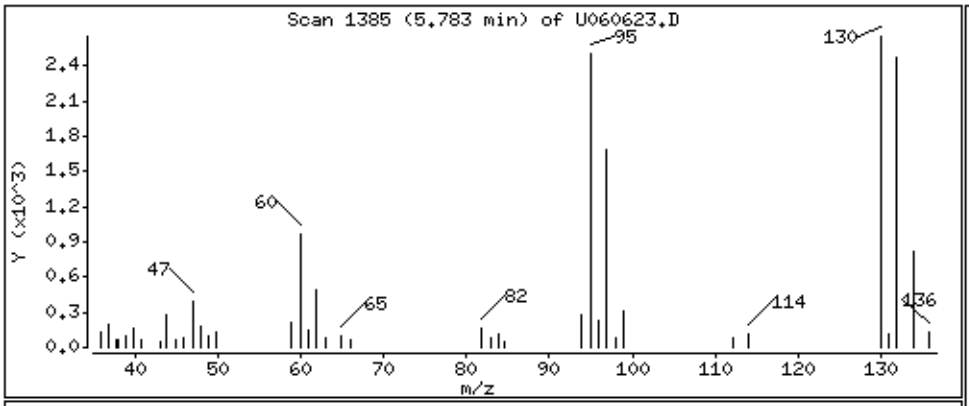
Operator: TS

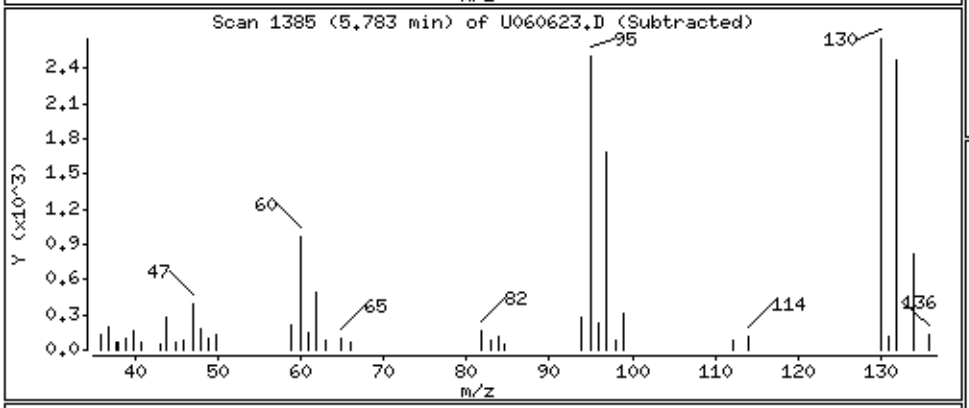
Column phase: DB624

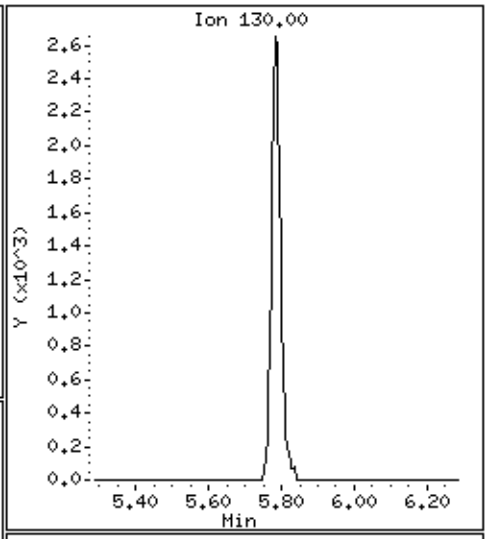
Column diameter: 0.18

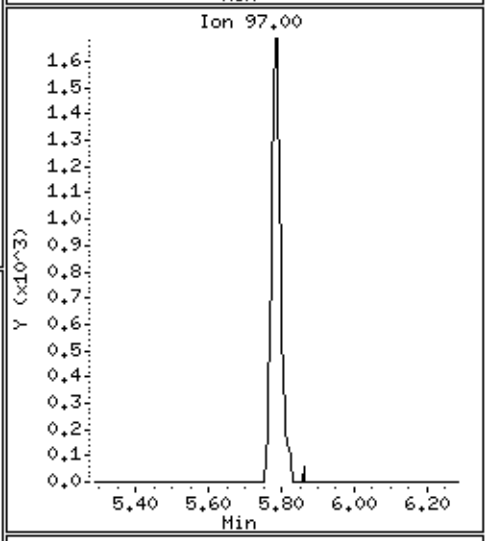
38 Trichloroethene

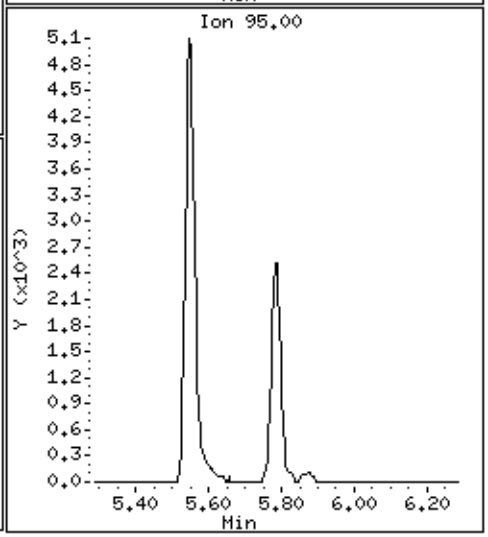
Concentration: 2.80 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060623.D

Date : 06-JUN-2024 18:29

Client ID:

Instrument: VOA9.i

Sample Info: HS24051959-11

Purge Volume: 5.0

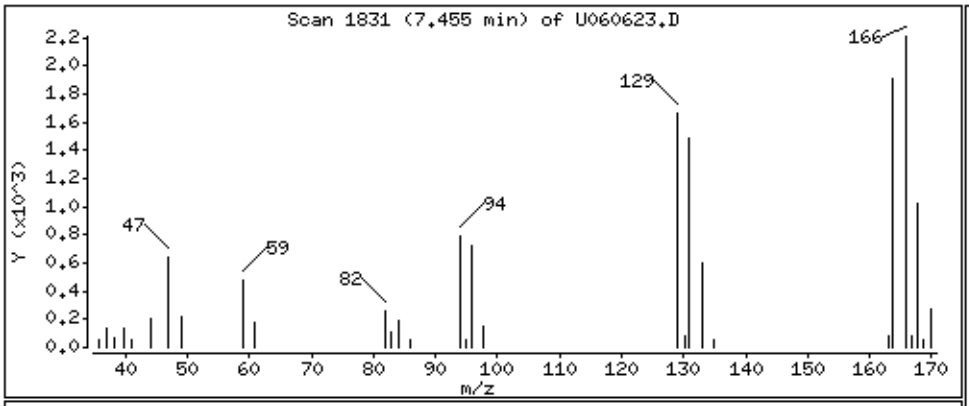
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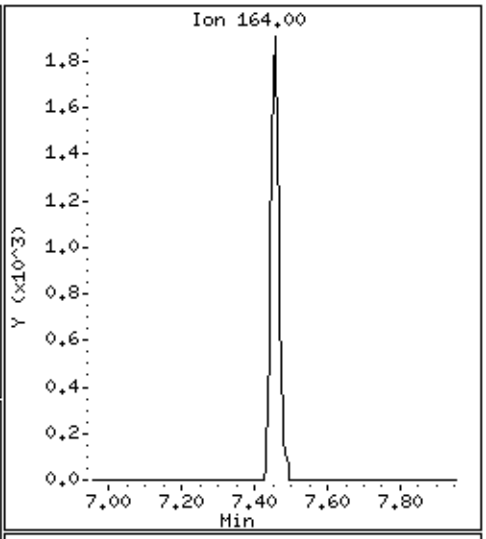
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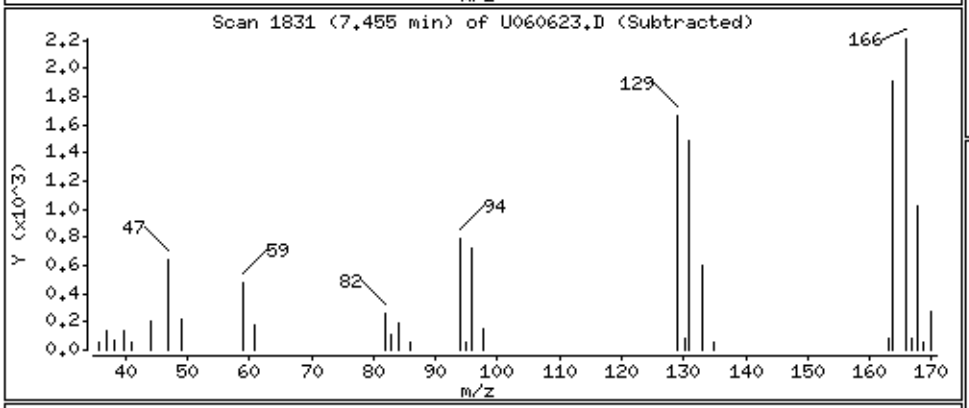
Column diameter: 0.18

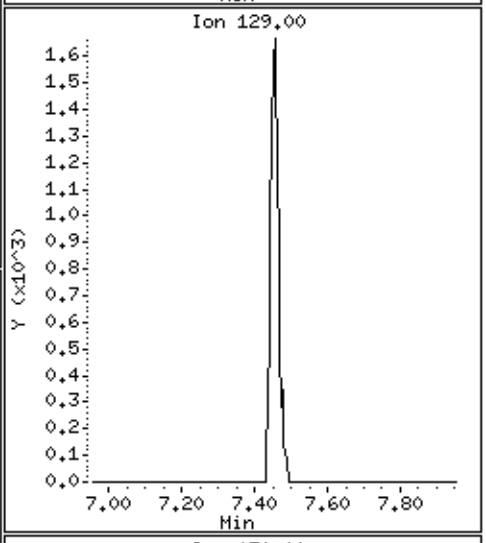
56 Tetrachloroethene

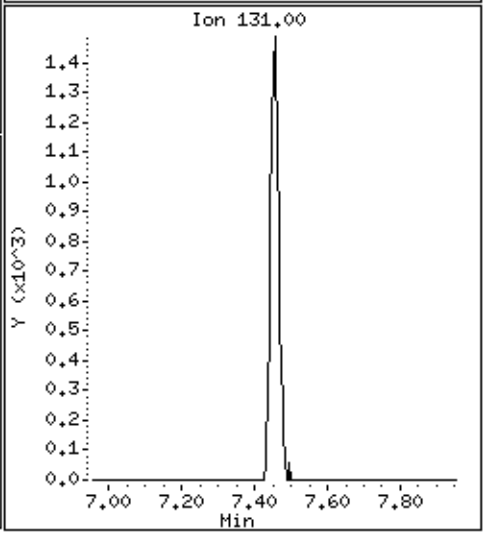
Concentration: 2.30 ug/l











Data File : \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060623.D
Inj Date : 06-JUN-2024 18:29
InstruID : VOA9.i
LabSampID : HS24051959-11

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060624.D Page 1
Report Date: 22-Jun-2024 12:42

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060624.D
Lab Smp Id: HS24051959-12
Inj Date : 06-JUN-2024 18:50
Operator : TS   Inst ID: VOA9.i
Smp Info : HS24051959-12
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240606.b\8260C.m
Meth Date : 22-Jun-2024 12:40 r.patel   Quant Type: ISTD
Cal Date : 05-JUN-2024 20:24   Cal File: W060506.D
Als bottle: 22
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.812	4.815	(1.000)	217943	50.0000	
$ 30 Dibromofluoromethane	113	4.740	4.744	(0.985)	83597	53.2152	53.21
$ 35 1,2-Dichloroethane-d4	65	5.093	5.096	(1.058)	107480	56.1196	56.11
* 36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	321898	50.0000	
* 47 Chlorobenzene-d5	117	8.182	8.182	(1.000)	292517	50.0000	
$ 48 Toluene-d8	98	6.918	6.918	(0.846)	321258	54.6885	54.68
$ 69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	109212	51.3874	51.38
* 70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	141338	50.0000	

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060624.D

Date : 06-JUN-2024 18:50

Client ID:

Instrument: VOA9.i

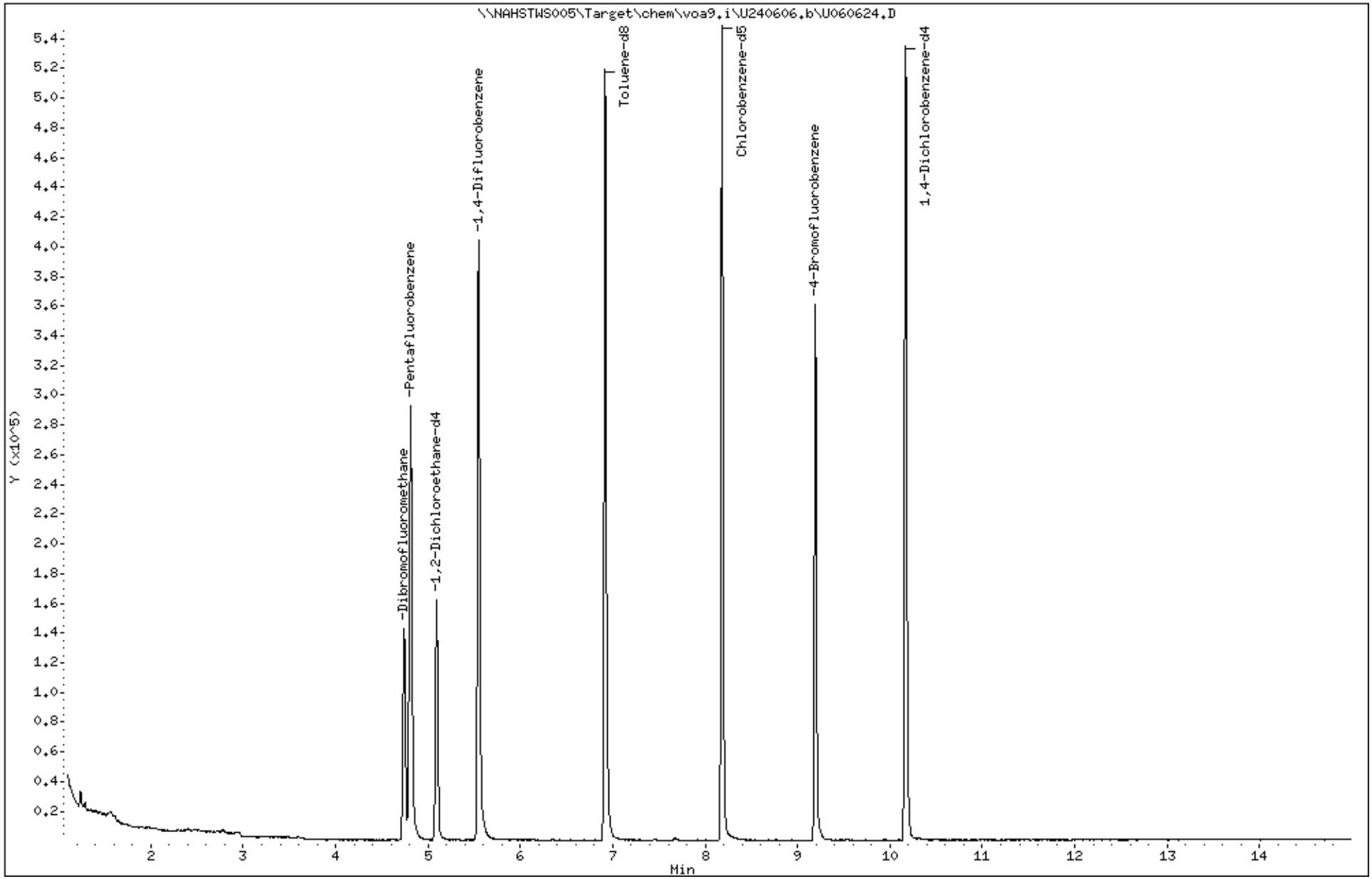
Sample Info: HS24051959-12

Purge Volume: 5.0

Operator: TS

Column phase: DB624

Column diameter: 0.18



Data File : \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060624.D
Inj Date : 06-JUN-2024 18:50
InstruID : VOA9.i
LabSampID : HS24051959-12

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060625.D Page 1
Report Date: 22-Jun-2024 12:42

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060625.D
Lab Smp Id: HS24051959-13
Inj Date : 06-JUN-2024 19:12
Operator : TS   Inst ID: VOA9.i
Smp Info : HS24051959-13
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240606.b\8260C.m
Meth Date : 22-Jun-2024 12:40 r.patel   Quant Type: ISTD
Cal Date : 05-JUN-2024 20:24   Cal File: W060506.D
Als bottle: 23
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.815	4.815	(1.000)	216267	50.0000	
$ 30 Dibromofluoromethane	113	4.748	4.744	(0.986)	81599	52.3458	52.34
$ 35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	106499	56.0383	56.03
* 36 1,4-Difluorobenzene	114	5.554	5.550	(1.000)	321524	50.0000	
* 47 Chlorobenzene-d5	117	8.182	8.182	(1.000)	291835	50.0000	
$ 48 Toluene-d8	98	6.922	6.918	(0.846)	314758	53.7072	53.70
$ 69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	109092	51.4509	51.45
* 70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	143395	50.0000	

01338389

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060625.D

Page 1

Date : 06-JUN-2024 19:12

Client ID:

Instrument: VOA9.i

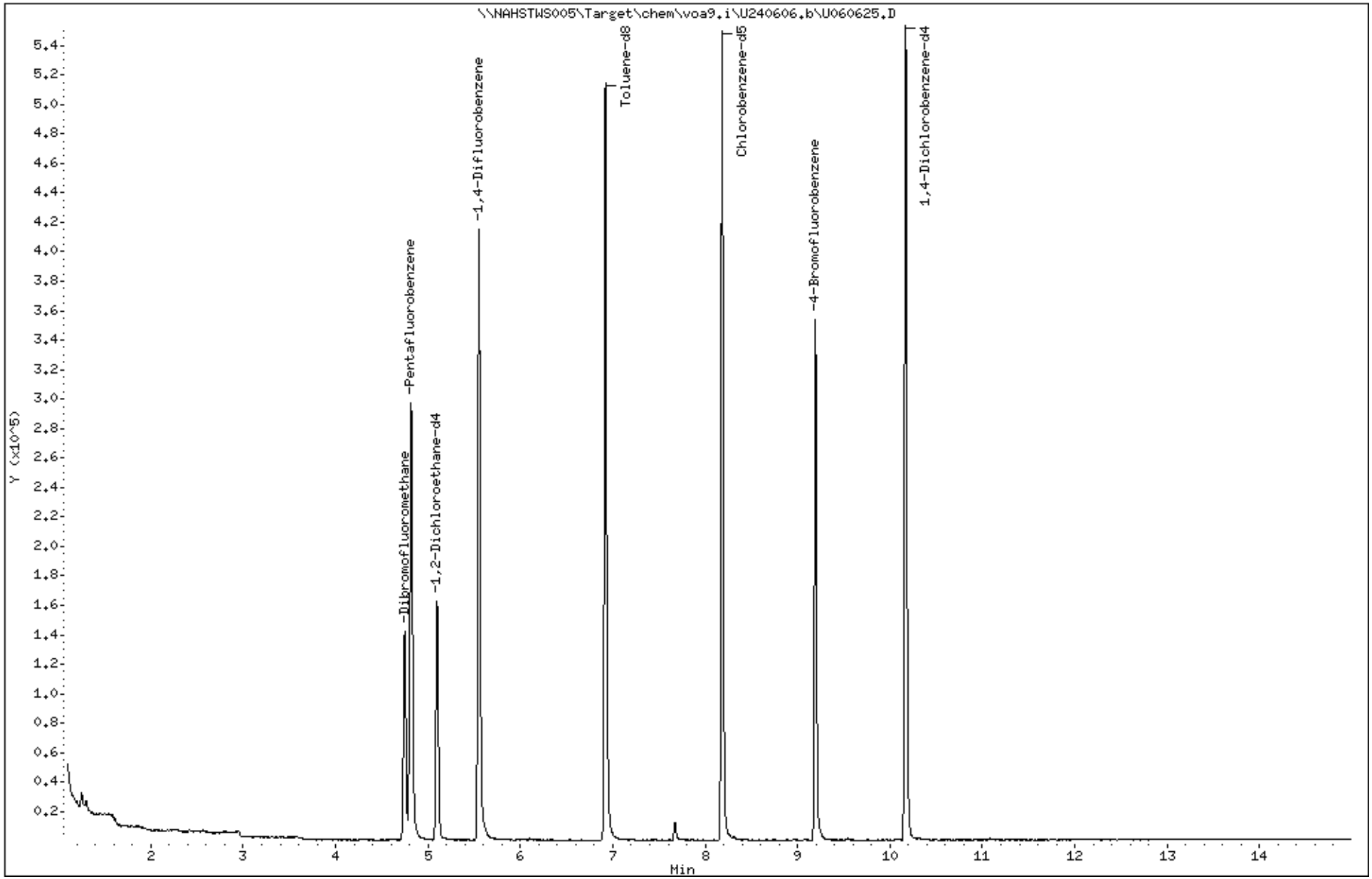
Sample Info: HS24051959-13

Purge Volume: 5.0

Operator: TS

Column phase: DB624

Column diameter: 0.18



Data File : \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060625.D
Inj Date : 06-JUN-2024 19:12
InstruID : VOA9.i
LabSampID : HS24051959-13

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060626.D Page 1
Report Date: 22-Jun-2024 12:42

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060626.D
Lab Smp Id: HS24051959-15
Inj Date : 06-JUN-2024 19:33
Operator : TS   Inst ID: VOA9.i
Smp Info : HS24051959-15
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240606.b\8260C.m
Meth Date : 22-Jun-2024 12:40 r.patel   Quant Type: ISTD
Cal Date : 05-JUN-2024 20:24   Cal File: W060506.D
Als bottle: 24
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

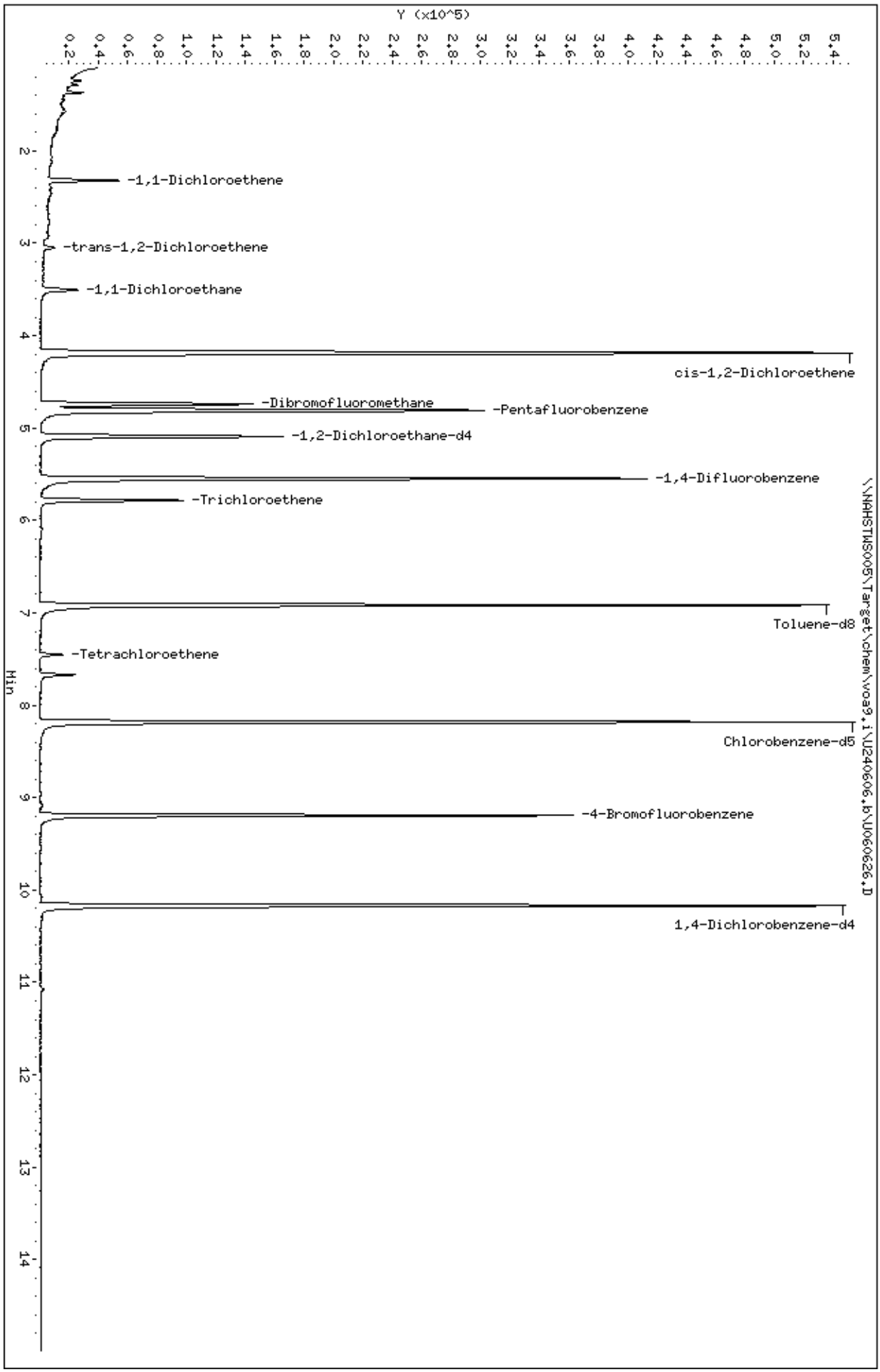
Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
*	1 Pentafluorobenzene	168	4.808	4.815	(1.000)	223507	50.0000	
	11 1,1-Dichloroethene	96	2.322	2.330	(0.483)	15151	11.8195	11.81
	20 trans-1,2-Dichloroethene	96	3.046	3.057	(0.634)	2981	2.24261	2.24
	22 1,1-Dichloroethane	63	3.503	3.511	(0.729)	24458	8.84486	8.84
	27 cis-1,2-Dichloroethene	96	4.189	4.193	(0.871)	262991	159.076	159.07
$	30 Dibromofluoromethane	113	4.740	4.744	(0.986)	84116	52.2126	52.21
$	35 1,2-Dichloroethane-d4	65	5.089	5.096	(1.058)	109664	55.8345	55.83
*	36 1,4-Difluorobenzene	114	5.546	5.550	(1.000)	327115	50.0000	
	38 Trichloroethene	130	5.782	5.786	(1.043)	31727	19.4756	19.47(H)
*	47 Chlorobenzene-d5	117	8.181	8.182	(1.000)	295306	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.846)	322938	54.4553	54.45
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	3285	2.56352	2.56(a)
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	110712	51.6012	51.60
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	144330	50.0000	
M	94 1,2-Dichloroethylene (total)	96				265972	160.090	160.08

QC Flag Legend

a - Target compound detected but, quantitated amount

Below Limit Of Quantitation(BLOQ).
H - Operator selected an alternate compound hit.



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060626.D
Date : 06-JUN-2024 19:33
Client ID:
Sample Info: HS24051959-15
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060626.D

Date : 06-JUN-2024 19:33

Client ID:

Instrument: VOA9.i

Sample Info: HS24051959-15

Purge Volume: 5.0

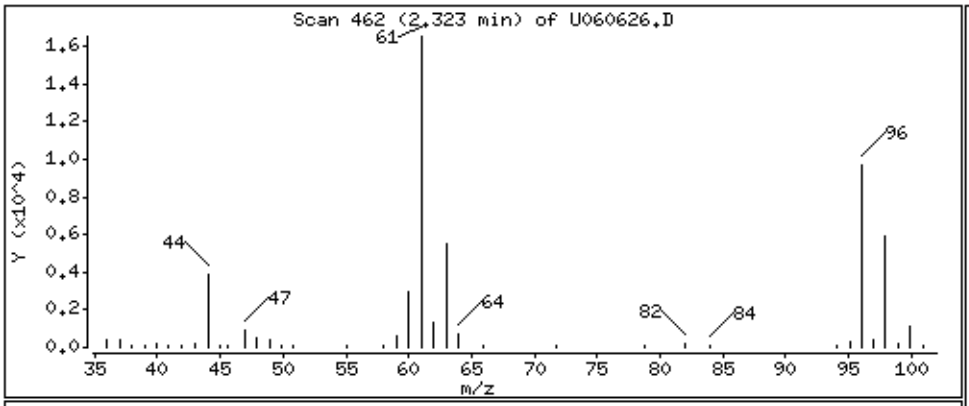
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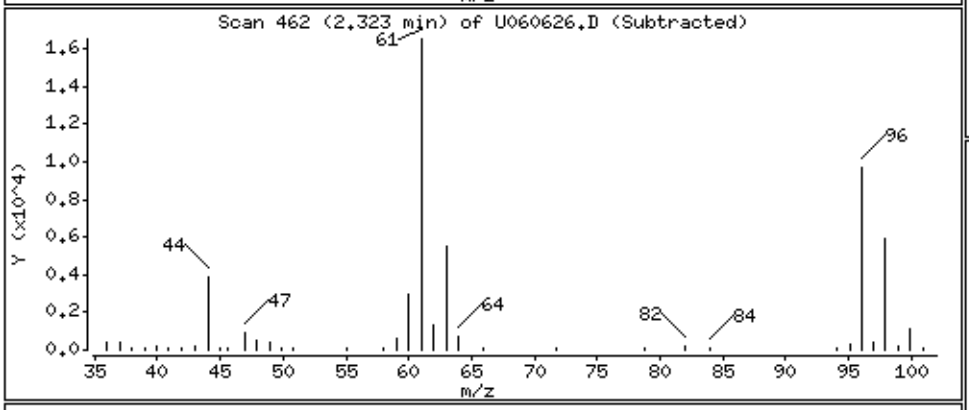
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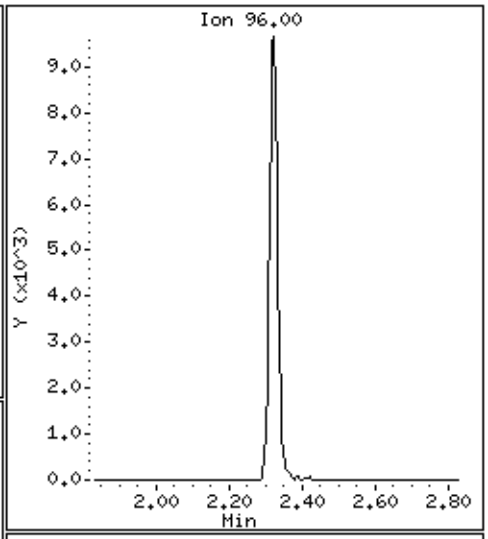
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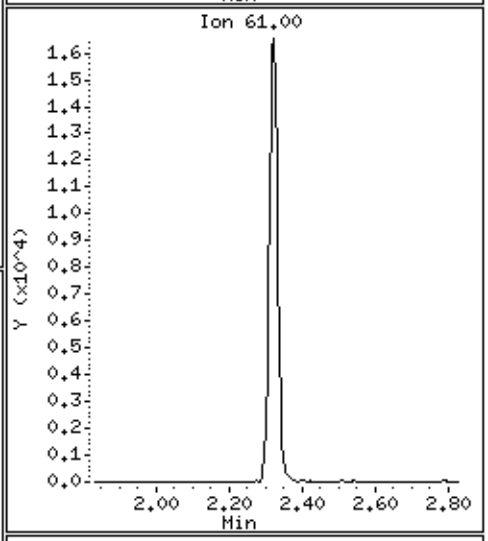
11 1,1-Dichloroethene

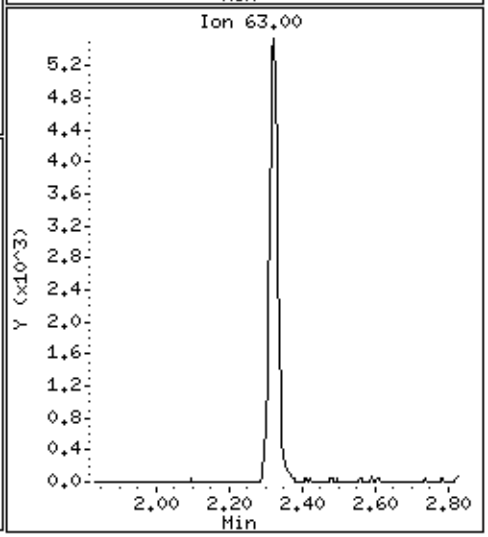
Concentration: 11.81 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060626.D Page 3

Date : 06-JUN-2024 19:33

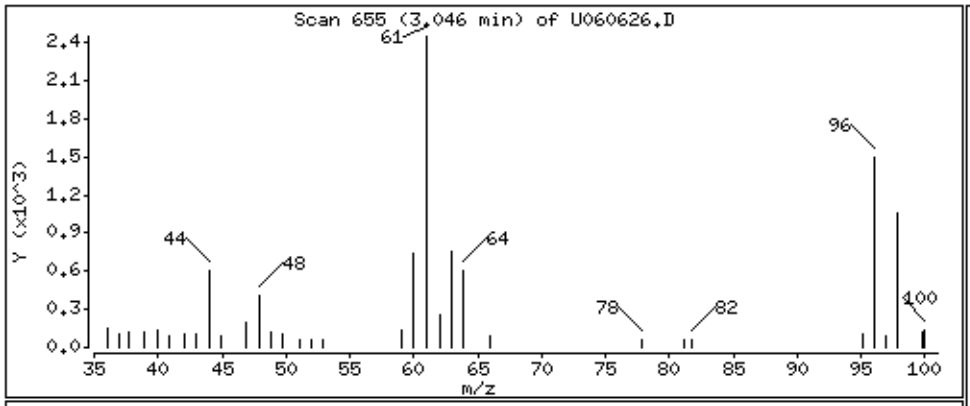
Client ID: Instrument: VOA9.i

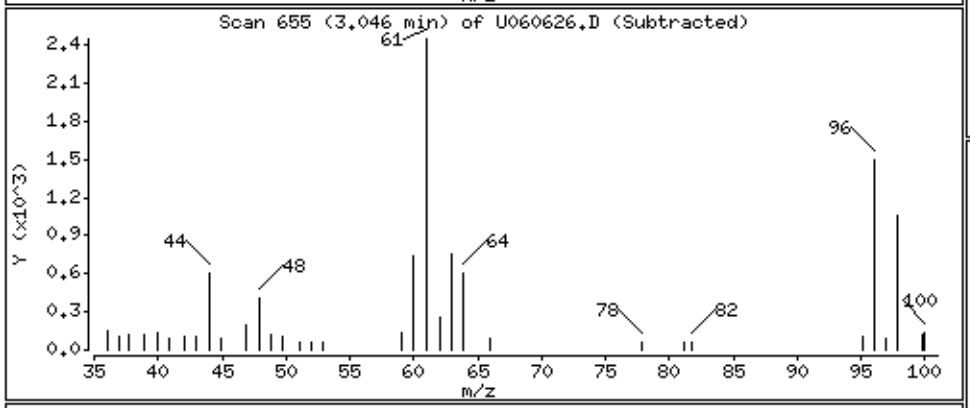
Sample Info: HS24051959-15

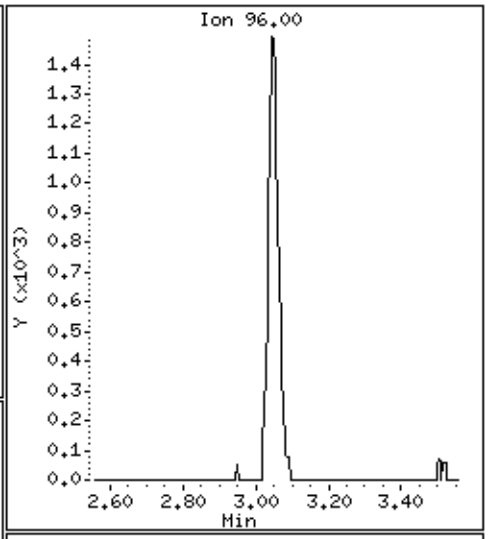
Purge Volume: 5.0 Operator: TS

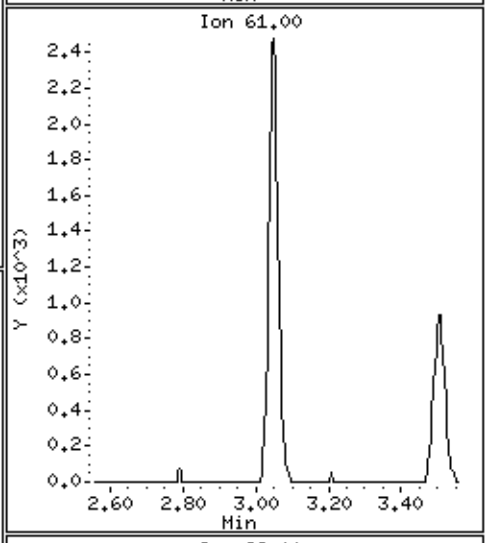
Column phase: DB624 Column diameter: 0.18

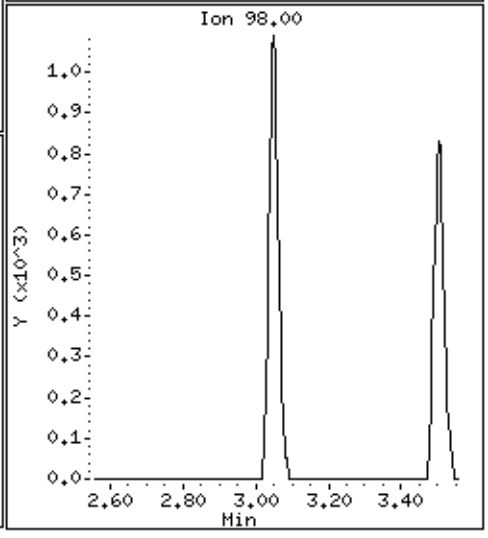
20 trans-1,2-Dichloroethene Concentration: 2.24 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060626.D

Date : 06-JUN-2024 19:33

Client ID:

Instrument: VOA9.i

Sample Info: HS24051959-15

Purge Volume: 5.0

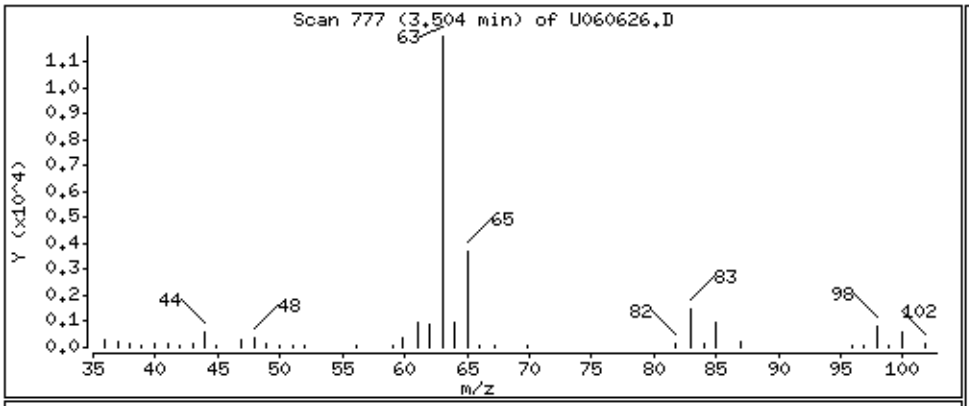
Operator: TS

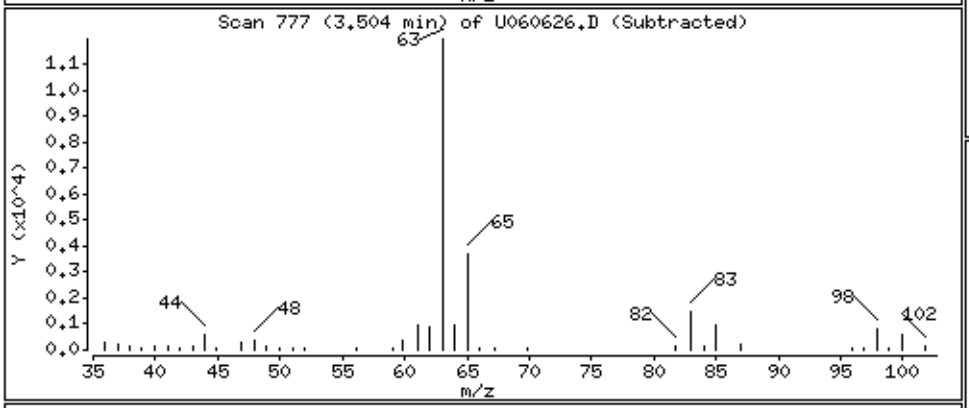
Column phase: DB624

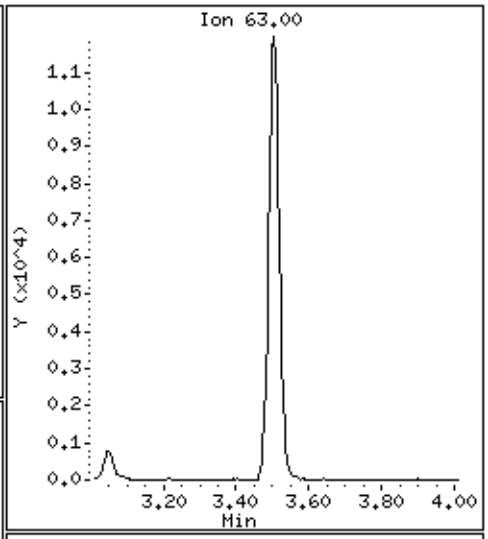
Column diameter: 0.18

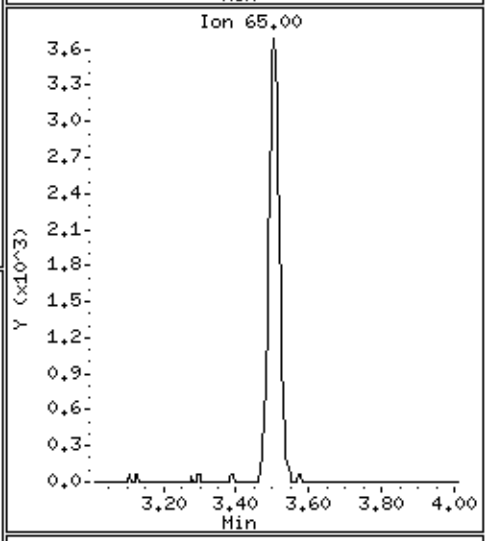
22 1,1-Dichloroethane

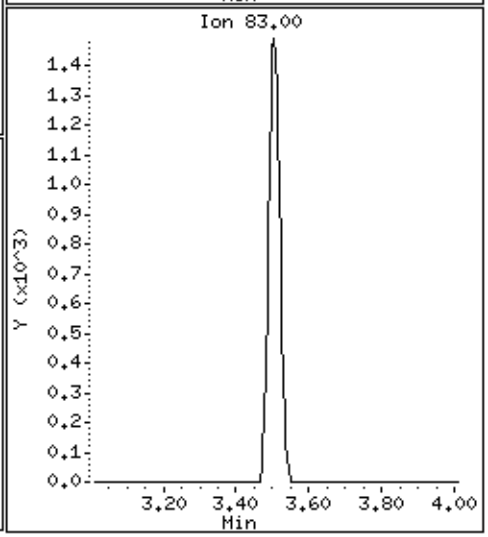
Concentration: 8.84 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060626.D Page 5

Date : 06-JUN-2024 19:33

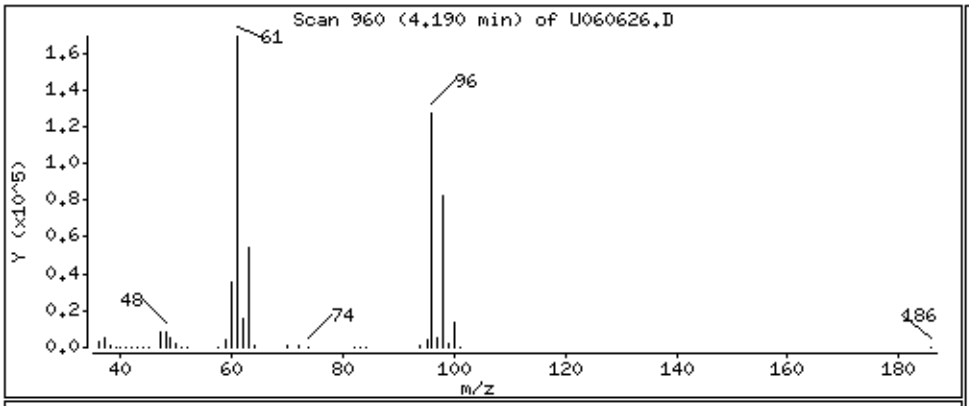
Client ID: Instrument: VOA9.i

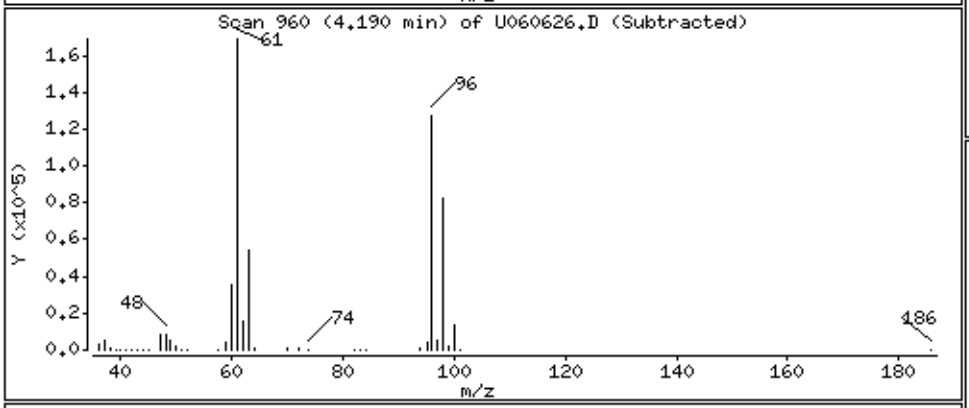
Sample Info: HS24051959-15

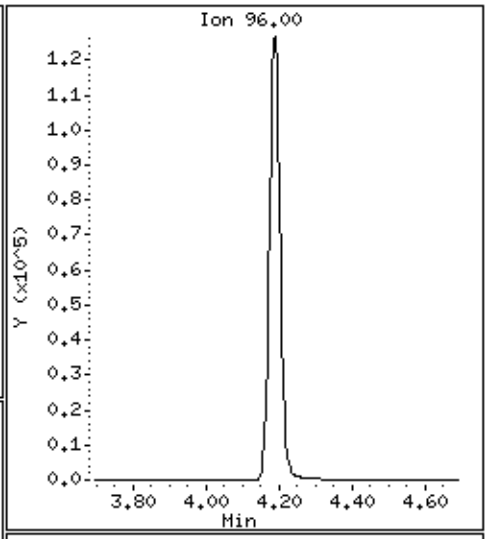
Purge Volume: 5.0 Operator: TS

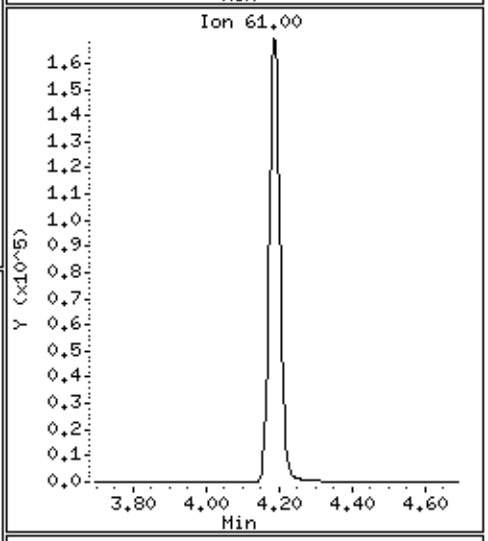
Column phase: DB624 Column diameter: 0.18

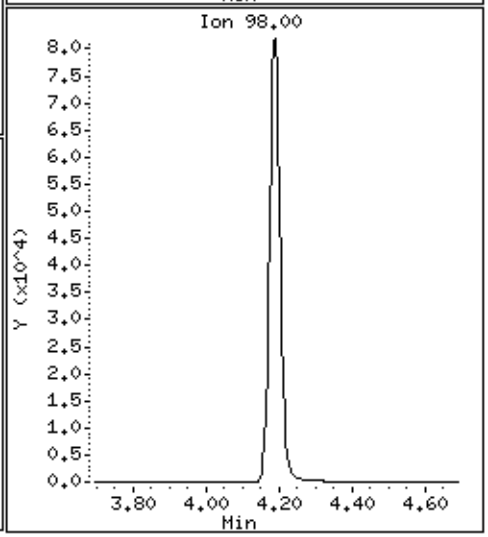
27 cis-1,2-Dichloroethene Concentration: 159.07 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060626.D

Date : 06-JUN-2024 19:33

Client ID:

Instrument: VOA9.i

Sample Info: HS24051959-15

Purge Volume: 5.0

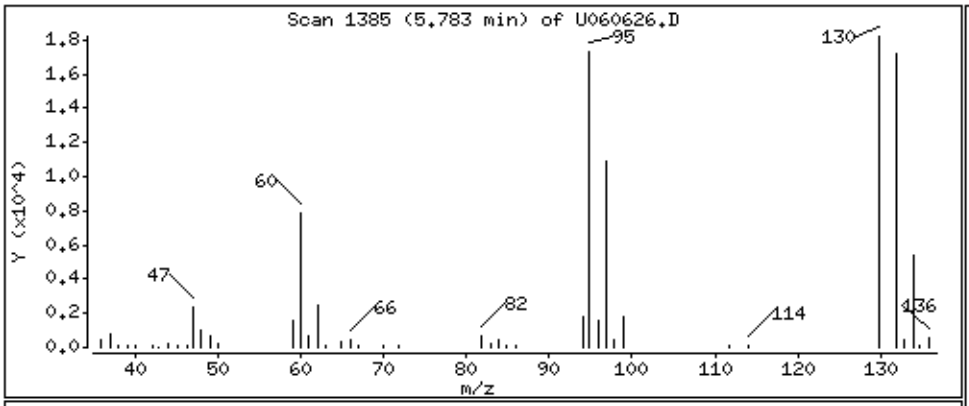
Operator: TS

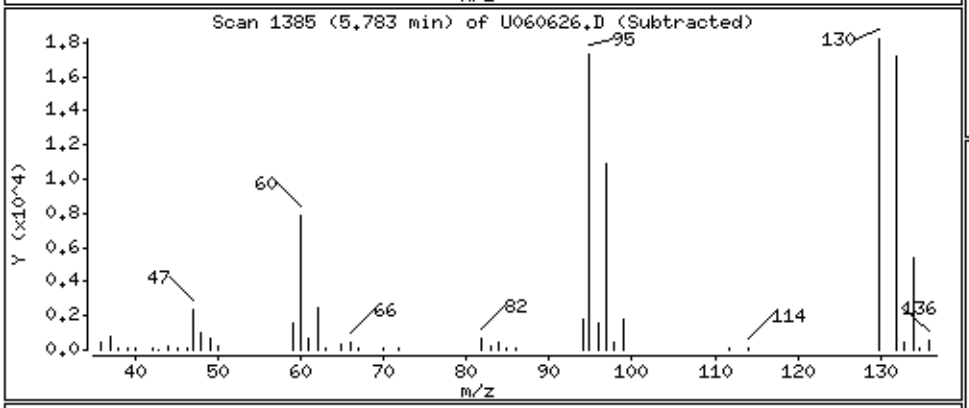
Column phase: DB624

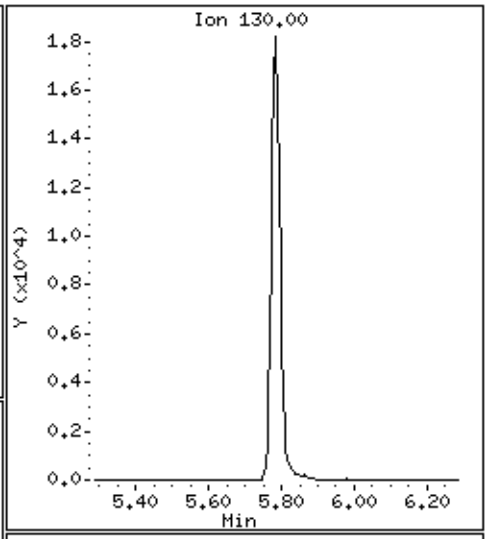
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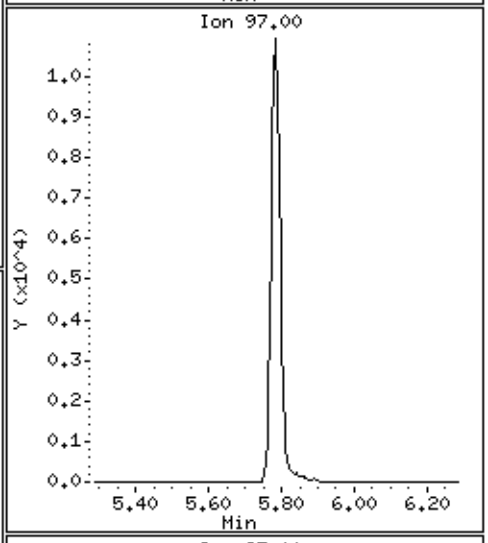
38 Trichloroethene

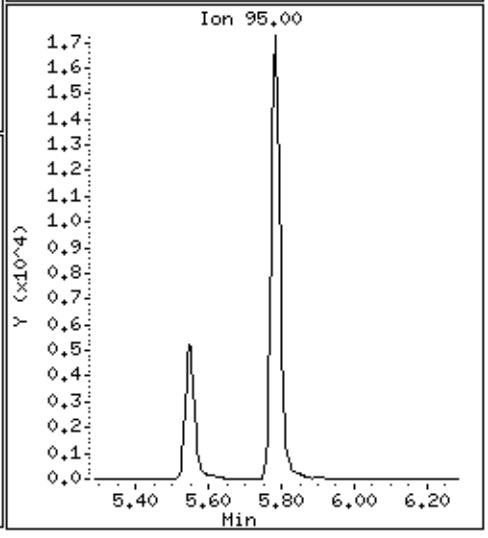
Concentration: 19.47 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060626.D Page 7

Date : 06-JUN-2024 19:33

Client ID:

Instrument: VOA9.i

Sample Info: HS24051959-15

Purge Volume: 5.0

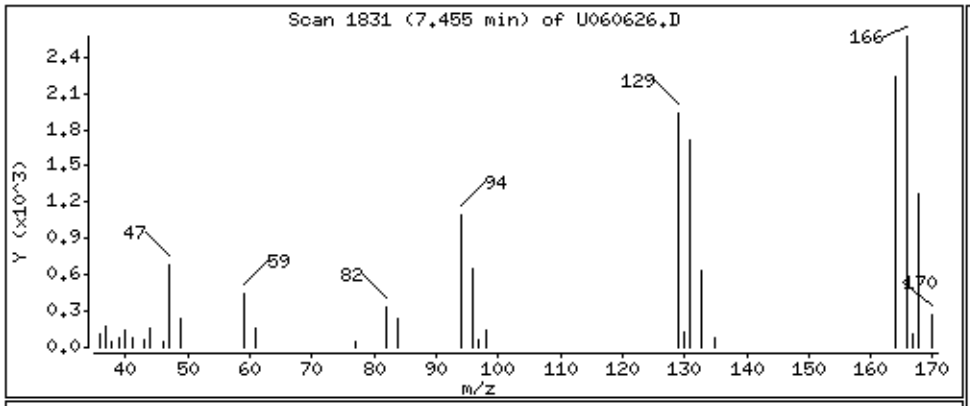
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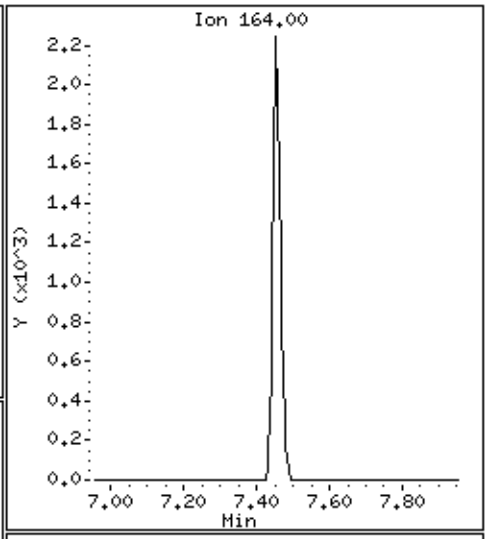
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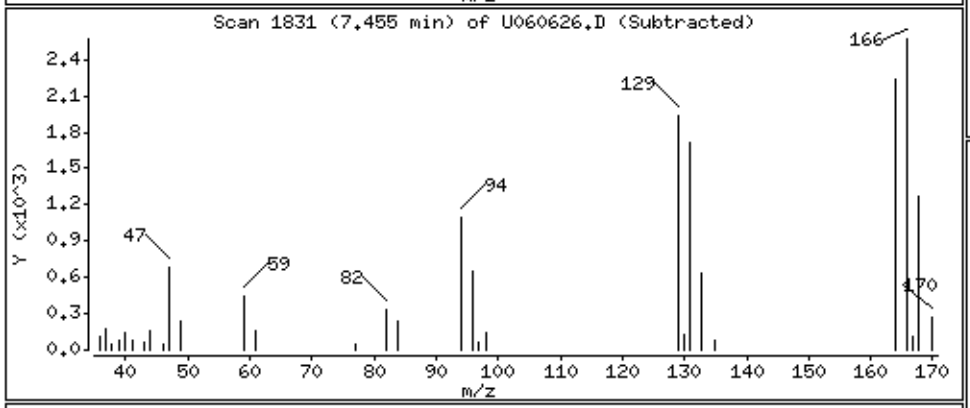
Column diameter: 0.18

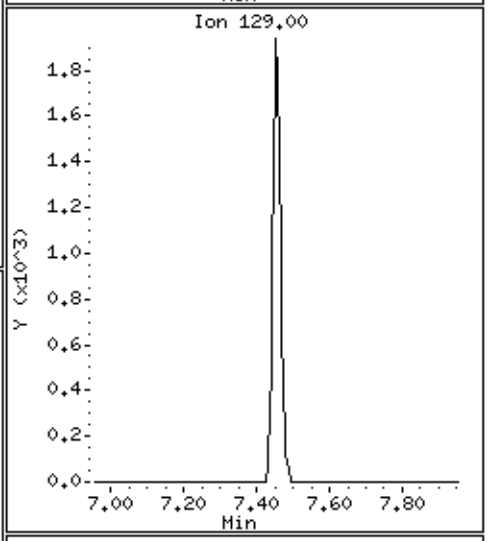
56 Tetrachloroethene

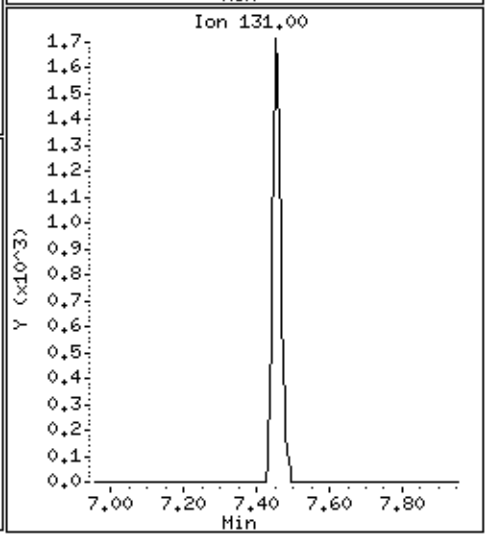
Concentration: 2.56 ug/l











Data File : \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060626.D
Inj Date : 06-JUN-2024 19:33
InstruID : VOA9.i
LabSampID : HS24051959-15

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060627.D Page 1
Report Date: 22-Jun-2024 12:42

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060627.D
Lab Smp Id: HS24051959-16
Inj Date : 06-JUN-2024 19:54
Operator : TS   Inst ID: VOA9.i
Smp Info : HS24051959-16
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240606.b\8260C.m
Meth Date : 22-Jun-2024 12:40 r.patel   Quant Type: ISTD
Cal Date : 05-JUN-2024 20:24   Cal File: W060506.D
Als bottle: 25
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

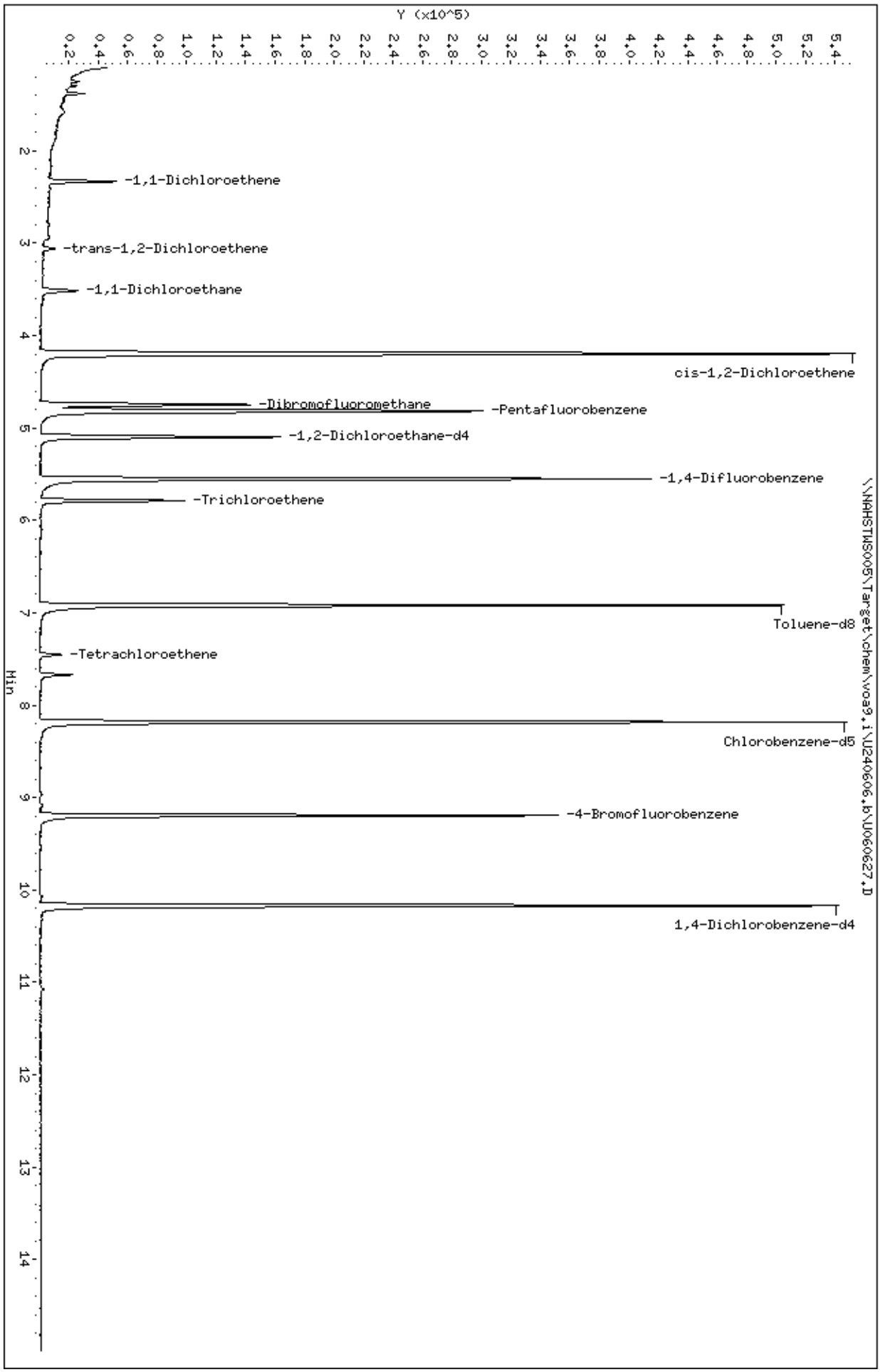
Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
*	1 Pentafluorobenzene	168	4.815	4.815	(1.000)	220318	50.0000	
	11 1,1-Dichloroethene	96	2.333	2.330	(0.485)	15072	11.9280	11.92
	20 trans-1,2-Dichloroethene	96	3.057	3.057	(0.635)	3041	2.31829	2.31
	22 1,1-Dichloroethane	63	3.514	3.511	(0.730)	23834	8.74032	8.74
	27 cis-1,2-Dichloroethene	96	4.197	4.193	(0.872)	265759	163.073	163.07
$	30 Dibromofluoromethane	113	4.748	4.744	(0.986)	82756	52.1119	52.11
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	106600	55.0601	55.06
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	324247	50.0000	
	38 Trichloroethene	130	5.786	5.786	(1.043)	31429	19.4633	19.46
*	47 Chlorobenzene-d5	117	8.181	8.182	(1.000)	294418	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.846)	313233	52.9781	52.97
	56 Tetrachloroethene	164	7.458	7.454	(0.912)	3264	2.55482	2.55(a)
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	108799	50.8626	50.86
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	142750	50.0000	
M	94 1,2-Dichloroethylene (total)	96				268800	164.134	164.13

QC Flag Legend

a - Target compound detected but, quantitated amount

Below Limit Of Quantitation(BLOQ).



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060627.D
Date : 06-JUN-2024 19:54
Client ID:
Sample Info: HS24051959-16
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060627.D Page 2

Date : 06-JUN-2024 19:54

Client ID:

Instrument: VOA9.i

Sample Info: HS24051959-16

Purge Volume: 5.0

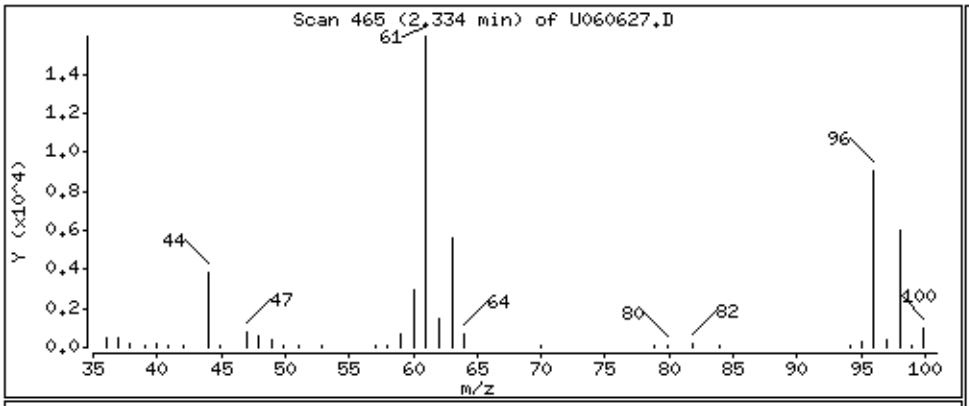
Operator: TS

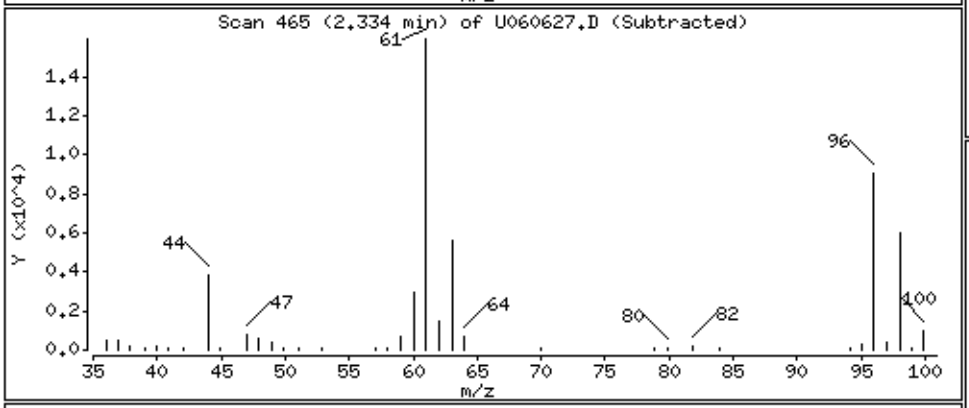
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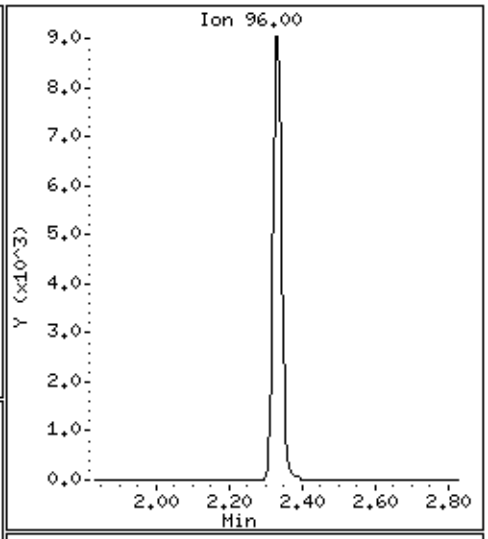
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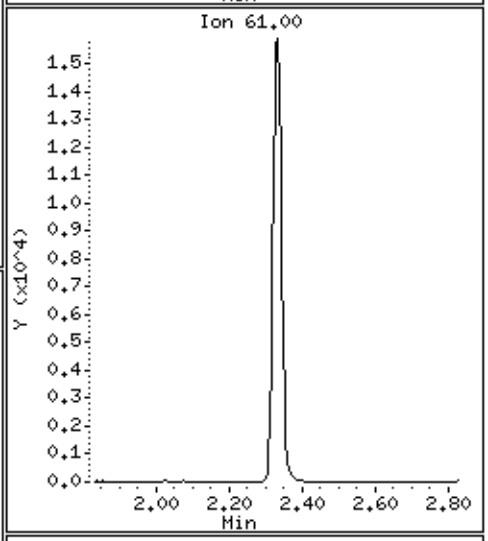
11 1,1-Dichloroethene

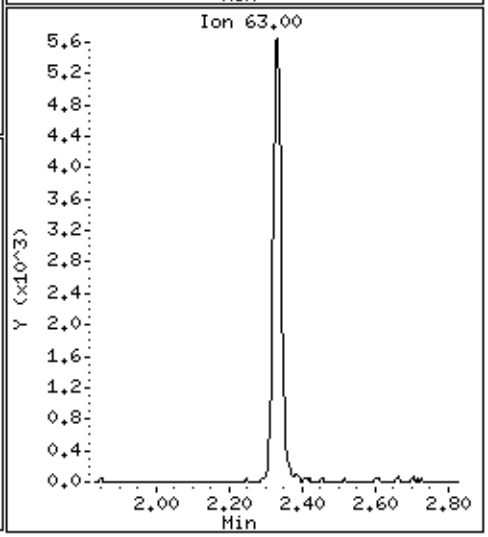
Concentration: 11.92 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060627.D Page 3

Date : 06-JUN-2024 19:54

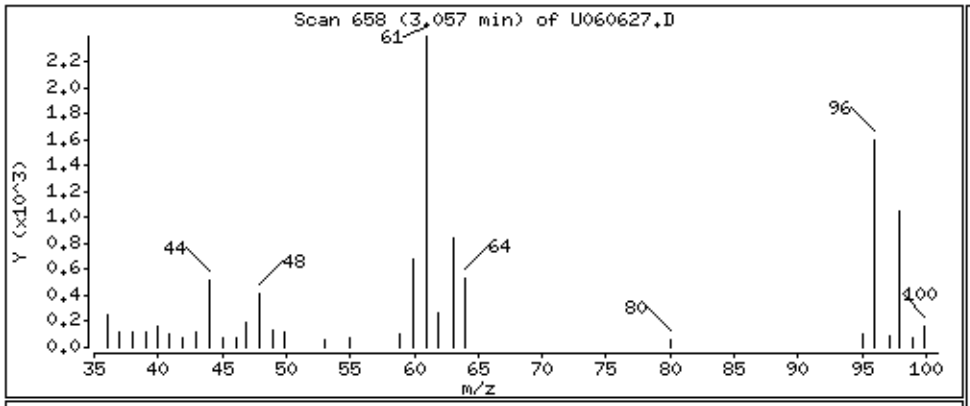
Client ID: Instrument: VOA9.i

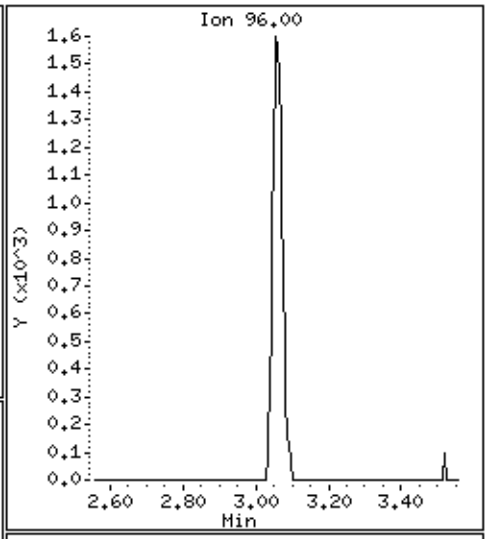
Sample Info: HS24051959-16

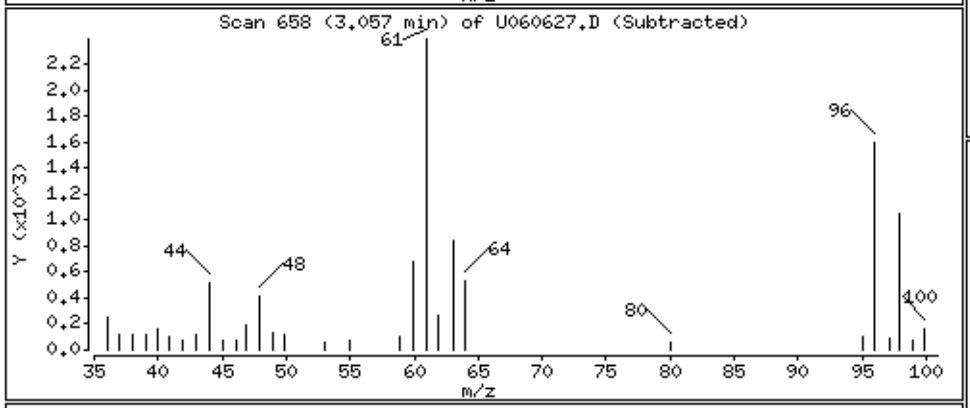
Purge Volume: 5.0 Operator: TS

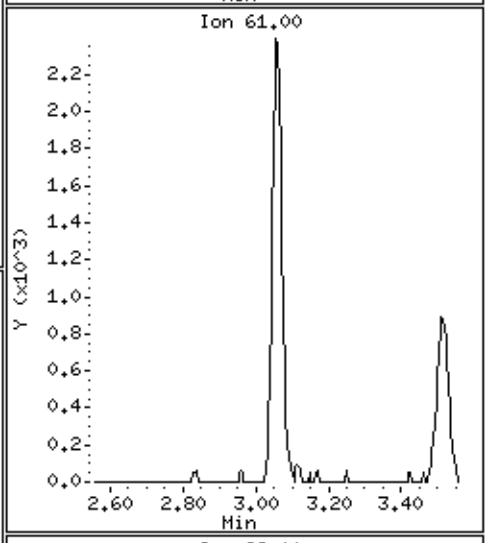
Column phase: DB624 Column diameter: 0.18

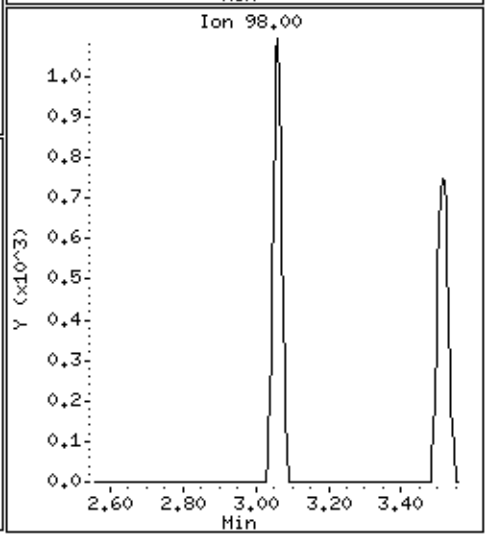
20 trans-1,2-Dichloroethene Concentration: 2.31 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060627.D

Date : 06-JUN-2024 19:54

Client ID:

Instrument: VOA9.i

Sample Info: HS24051959-16

Purge Volume: 5.0

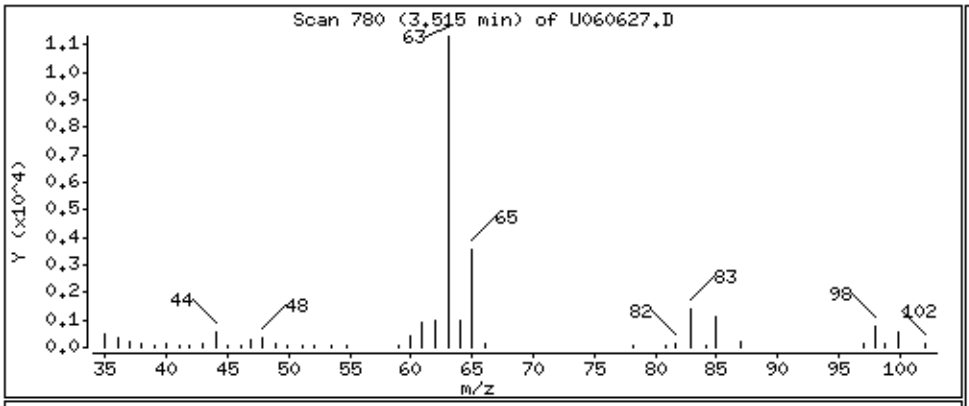
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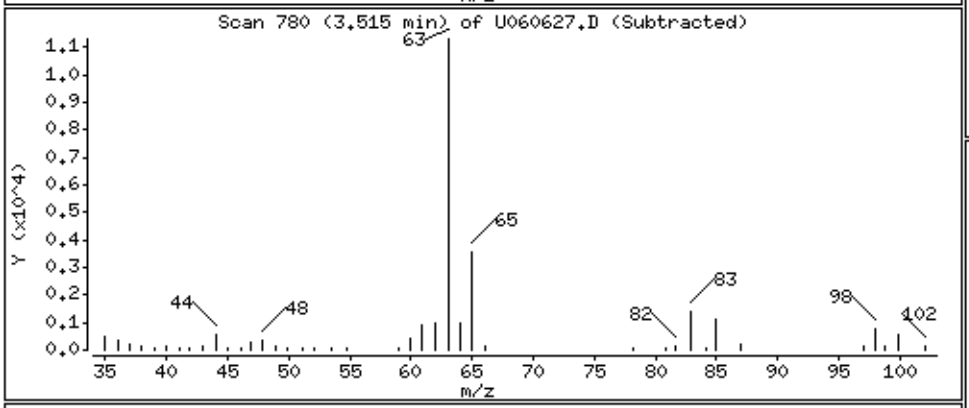
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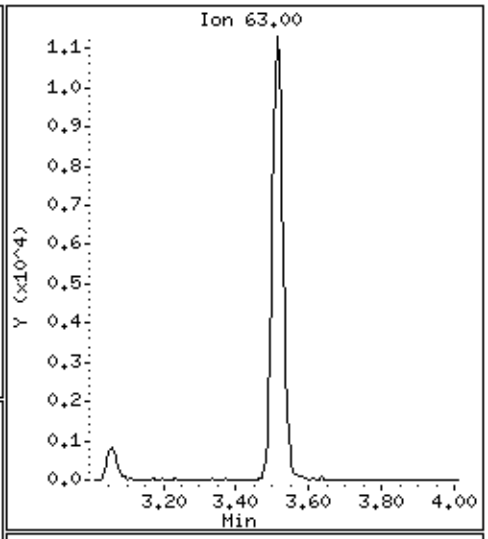
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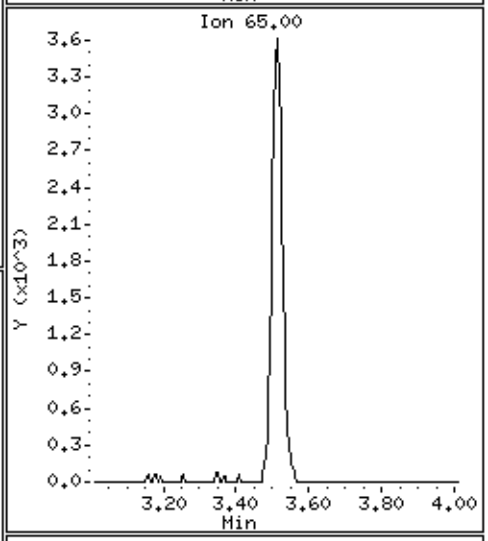
22 1,1-Dichloroethane

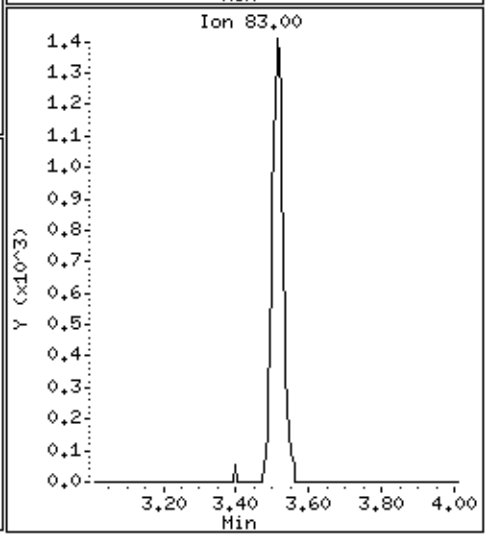
Concentration: 8.74 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060627.D Page 5

Date : 06-JUN-2024 19:54

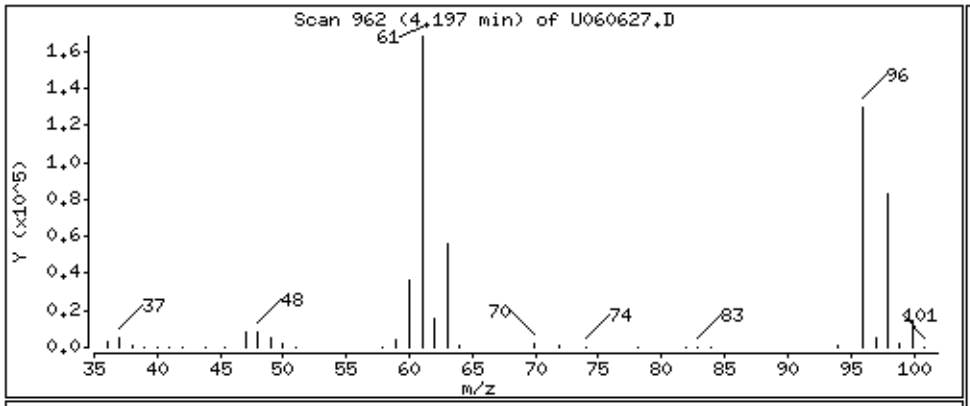
Client ID: Instrument: VOA9.i

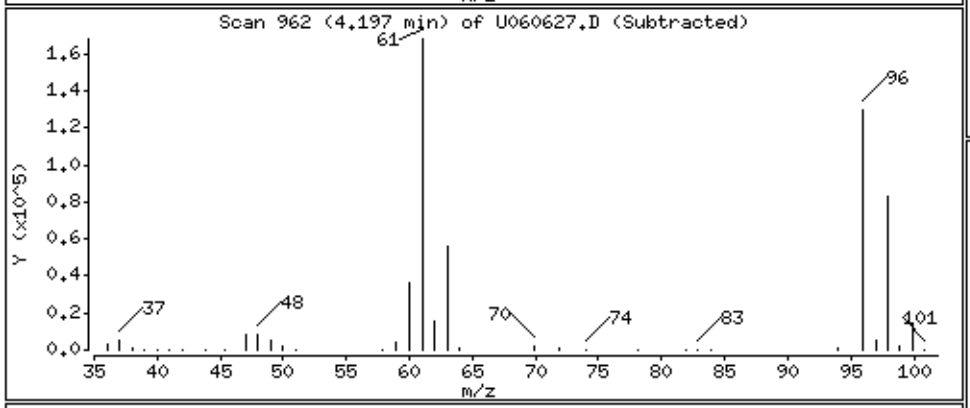
Sample Info: HS24051959-16

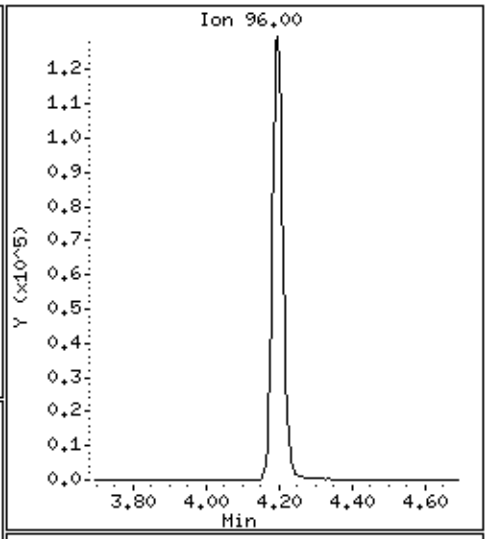
Purge Volume: 5.0 Operator: TS

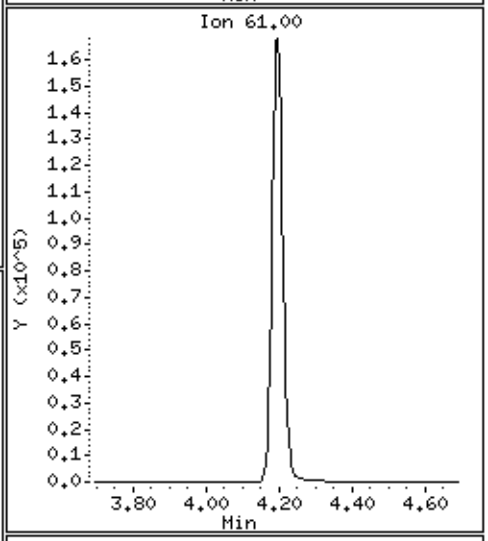
Column phase: DB624 Column diameter: 0.18

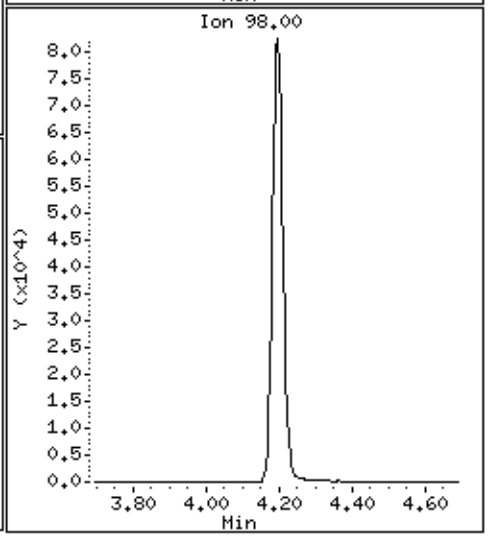
27 cis-1,2-Dichloroethene Concentration: 163.07 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060627.D

Date : 06-JUN-2024 19:54

Client ID:

Instrument: VOA9.i

Sample Info: HS24051959-16

Purge Volume: 5.0

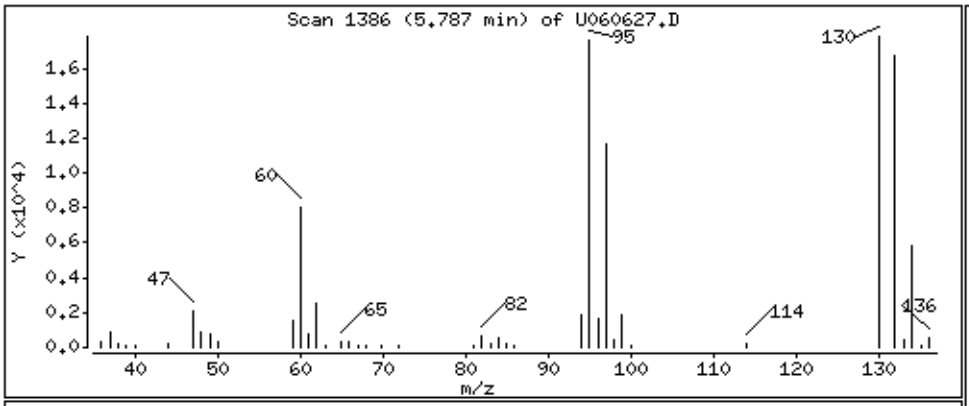
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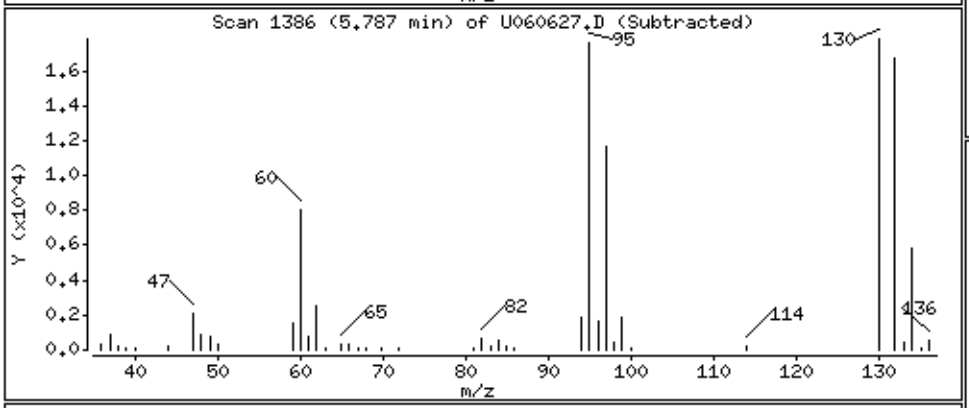
Column phase: DB624

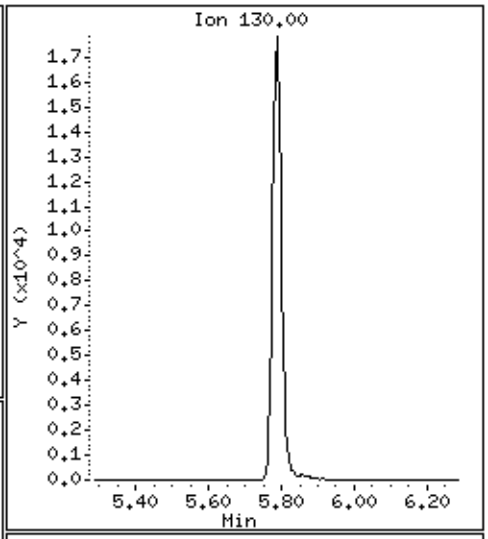
Column diameter: 0.18

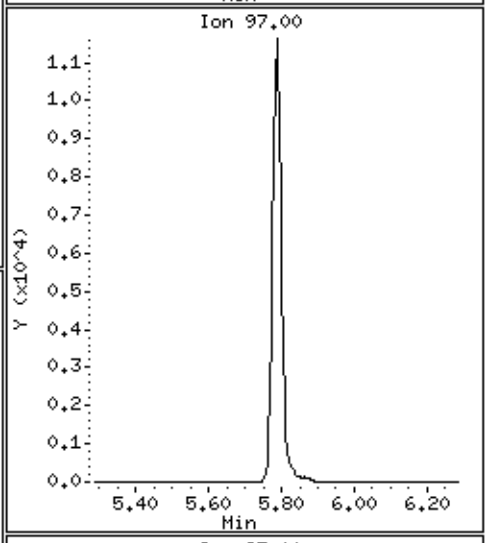
38 Trichloroethene

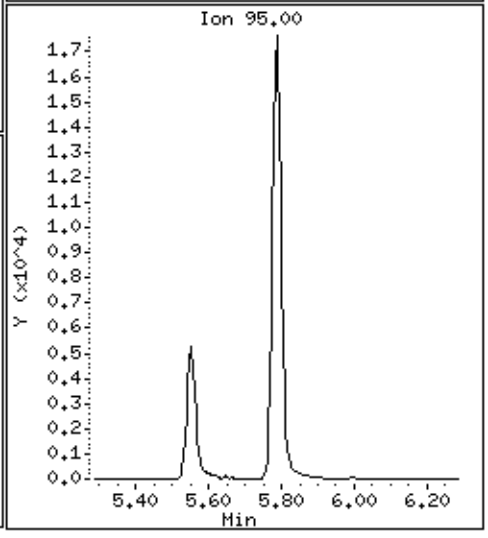
Concentration: 19.46 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060627.D Page 7

Date : 06-JUN-2024 19:54

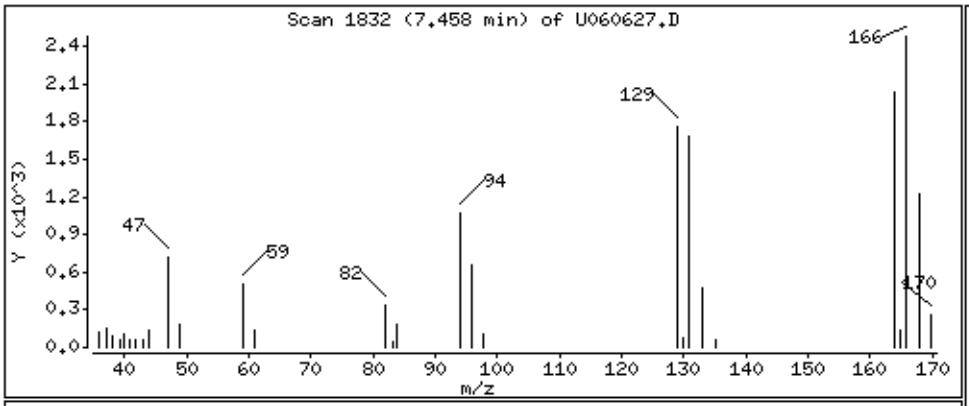
Client ID: Instrument: VOA9.i

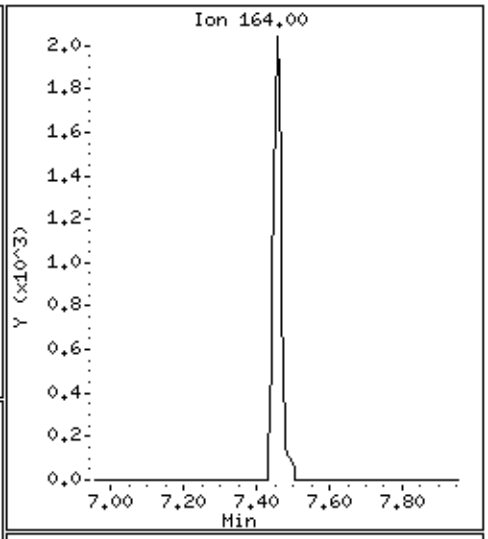
Sample Info: HS24051959-16

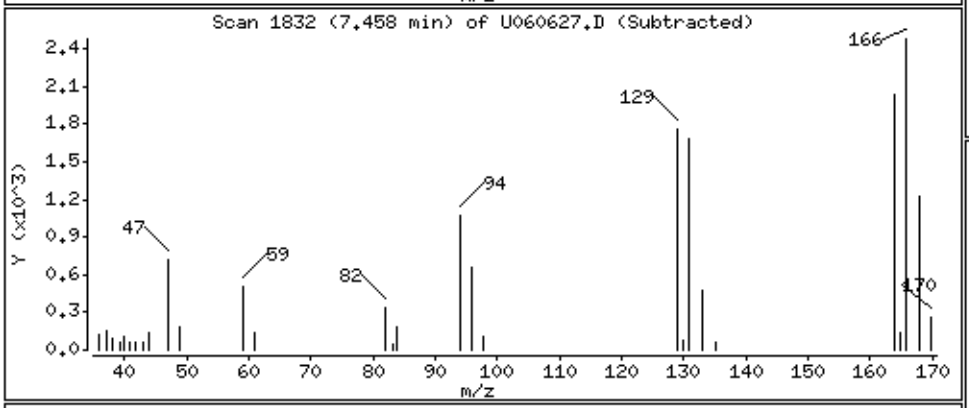
Purge Volume: 5.0 Operator: TS

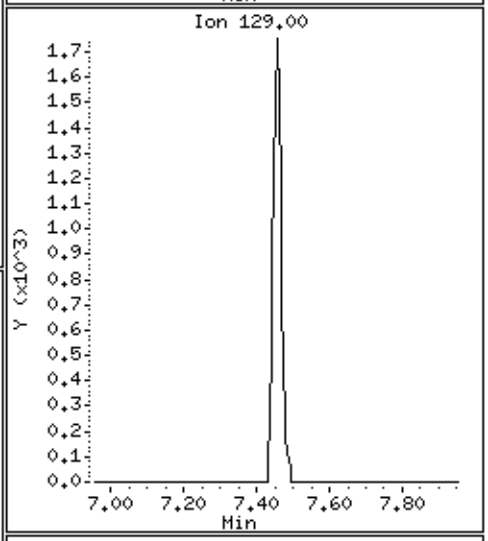
Column phase: DB624 Column diameter: 0.18

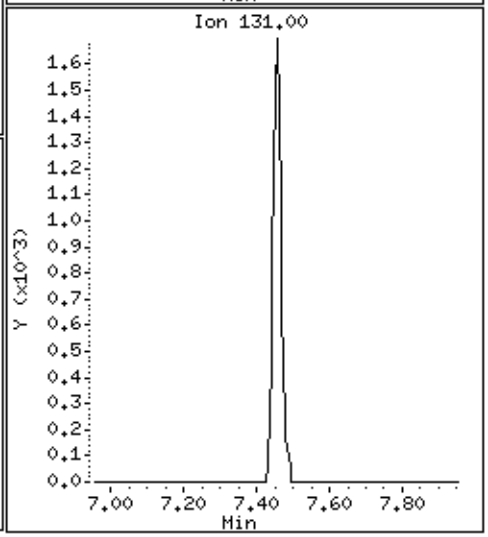
56 Tetrachloroethene Concentration: 2.55 ug/l











Data File : \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060627.D
Inj Date : 06-JUN-2024 19:54
InstruID : VOA9.i
LabSampID : HS24051959-16

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060628.D Page 1
Report Date: 22-Jun-2024 12:42

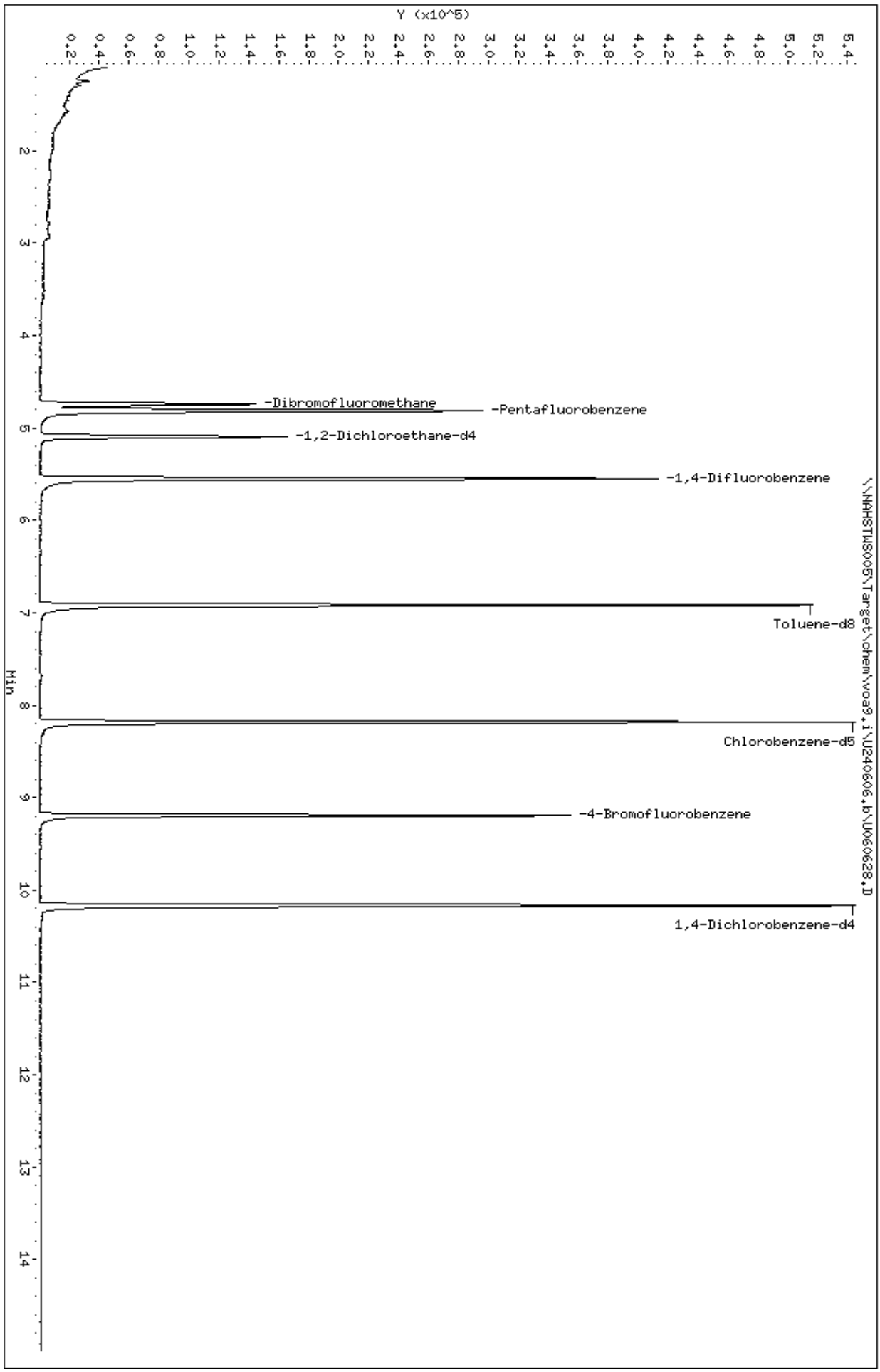
ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060628.D
Lab Smp Id: HS24051959-17
Inj Date : 06-JUN-2024 20:16
Operator : TS   Inst ID: VOA9.i
Smp Info : HS24051959-17
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240606.b\8260C.m
Meth Date : 22-Jun-2024 12:40 r.patel   Quant Type: ISTD
Cal Date : 05-JUN-2024 20:24   Cal File: W060506.D
Als bottle: 26
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.811	4.815	(1.000)	218196	50.0000	
$ 30 Dibromofluoromethane	113	4.744	4.744	(0.986)	83676	53.2037	53.20
$ 35 1,2-Dichloroethane-d4	65	5.092	5.096	(1.058)	108305	56.4848	56.48
* 36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	324695	50.0000	
* 47 Chlorobenzene-d5	117	8.181	8.182	(1.000)	291492	50.0000	
$ 48 Toluene-d8	98	6.918	6.918	(0.846)	322074	55.0202	55.02
$ 69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	110075	51.9756	51.97
* 70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	141776	50.0000	


Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060628.D
Date : 06-JUN-2024 20:16
Client ID:
Sample Info: HS24051959-17
Purge Volume: 5.0
Column phase: DB624
Instrument: VOA9.i
Operator: TS
Column diameter: 0.18
Y (x10^5)
-Dibromofluoromethane
-Pentafluorobenzene
-1,2-Dichloroethane-d4
-1,4-Difluorobenzene
Toluene-d8
Chlorobenzene-d5
-4-Bromofluorobenzene
1,4-Dichlorobenzene-d4
\\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060628.D
Min

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060628.D
Inj Date : 06-JUN-2024 20:16
InstruID : VOA9.i
LabSampID : HS24051959-17

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060629.D Page 1
Report Date: 21-Jun-2024 17:22

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060629.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 06-JUN-2024 20:37
Operator : TS Inst ID: VOA9.i
Smp Info : VSTD050;VSTD050;2;;CCV
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240606.b\8260C.m
Meth Date : 21-Jun-2024 17:22 VOA9.i Quant Type: ISTD
Cal Date : 05-JUN-2024 20:24 Cal File: W060506.D
Als bottle: 27 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.815	4.815	(1.000)	232111	50.0000	
2	Dichlorodifluoromethane	85	1.164	1.164	(0.242)	38380	50.0000	53.20
3	Chloromethane	50	1.295	1.295	(0.269)	146158	50.0000	54.84
4	Propionitrile	54	4.335	4.335	(0.900)	95679	500.000	425.60
5	Vinyl Chloride	62	1.378	1.378	(0.286)	77513	50.0000	49.17
6	Bromomethane	94	1.606	1.606	(0.334)	32936	50.0000	46.10
7	Chloroethane	64	1.693	1.693	(0.352)	56014	50.0000	49.13
8	Trichlorofluoromethane	101	1.895	1.895	(0.394)	103466	50.0000	50.90
9	Acrolein	56	2.262	2.262	(0.470)	6822	100.000	90.32
10	Acetone	43	2.409	2.409	(0.500)	48615	100.000	77.80
11	1,1-Dichloroethene	96	2.330	2.330	(0.484)	63123	50.0000	47.41
12	Isobutyl Alcohol	43	5.284	5.284	(1.097)	206621	1000.00	836.99
13	Acetonitrile	39	2.671	2.671	(0.555)	85175	500.000	443.90
14	Allyl Chloride	41	2.671	2.671	(0.555)	190361	50.0000	43.74
15	Iodomethane	142	2.465	2.465	(0.512)	37505	100.000	117.92
16	Acrylonitrile	53	3.065	3.065	(0.636)	50980	100.000	87.31
17	Methylene Chloride	84	2.795	2.795	(0.580)	77227	50.0000	48.15
18	Methyl tert-butyl ether	73	3.080	3.080	(0.640)	171777	50.0000	43.44
19	Carbon Disulfide	76	2.517	2.517	(0.523)	354606	100.000	92.94
20	trans-1,2-Dichloroethene	96	3.057	3.057	(0.635)	67836	50.0000	47.60

21 Vinyl Acetate	43	4.339	4.339 (0.901)	79488	100.000	87.69
22 1,1-Dichloroethane	63	3.511	3.511 (0.729)	134611	50.0000	48.24

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
23	Chloroprene	53	3.608	3.608	(0.749)	112841	50.0000	47.68
24	2-Butanone	43	4.264	4.264	(0.886)	71788	100.000	83.76
25	Methacrylonitrile	41	4.493	4.493	(0.933)	44765	50.0000	43.78(a)
26	2,2-Dichloropropane	77	4.182	4.182	(0.868)	88136	50.0000	44.62
27	cis-1,2-Dichloroethene	96	4.193	4.193	(0.871)	81033	50.0000	47.31
28	Chloroform	83	4.572	4.572	(0.949)	136856	50.0000	44.73
29	Bromochloromethane	128	4.467	4.467	(0.928)	40396	50.0000	48.36
$ 30	Dibromofluoromethane	113	4.744	4.744	(0.985)	87367	50.0000	52.22
31	1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	106414	50.0000	48.44
32	1,1-Dichloropropene	75	4.920	4.920	(0.887)	100296	50.0000	46.03
33	1,2-Dichloroethane	62	5.175	5.175	(0.932)	111362	50.0000	47.75
34	Carbon Tetrachloride	117	4.909	4.909	(0.885)	86635	50.0000	48.19
$ 35	1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	107279	50.0000	52.59
* 36	1,4-Difluorobenzene	114	5.550	5.550	(1.000)	337309	50.0000	
37	Benzene	78	5.138	5.138	(0.926)	306020	50.0000	47.88
38	Trichloroethene	130	5.786	5.786	(1.043)	78329	50.0000	46.62
39	Bromodichloromethane	83	6.277	6.277	(1.131)	89997	50.0000	44.96
40	Methyl Methacrylate	41	5.820	5.820	(1.209)	28514	50.0000	40.67
41	2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	28707	100.000	72.11
42	1,2-Dichloropropane	63	6.007	6.007	(1.082)	83534	50.0000	46.71
43	2-Nitropropane	43	6.506	6.506	(1.351)	15714	50.0000	46.98
44	Dibromomethane	93	6.116	6.116	(1.102)	48005	50.0000	46.57
45	4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	149041	100.000	80.45
46	cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	109004	50.0000	42.12
* 47	Chlorobenzene-d5	117	8.182	8.182	(1.000)	306739	50.0000	
$ 48	Toluene-d8	98	6.918	6.918	(0.846)	341105	50.0000	55.37
49	Ethyl Methacrylate	69	7.289	7.289	(1.313)	89281	50.0000	40.91
50	Toluene	91	6.978	6.978	(0.853)	318649	50.0000	46.53
51	trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	88094	50.0000	41.03
52	2-Hexanone	43	7.214	7.214	(0.882)	106112	100.000	82.69
53	1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	60899	50.0000	46.78
54	1,3-Dichloropropane	76	7.496	7.496	(0.916)	130852	50.0000	46.69
55	Dibromochloromethane	129	7.690	7.690	(0.940)	69904	50.0000	43.39
56	Tetrachloroethene	164	7.454	7.454	(0.911)	64628	50.0000	48.55
57	1,2-Dibromoethane	107	7.780	7.780	(0.951)	69673	50.0000	45.37
58	1-Chlorohexane	55	8.193	8.193	(1.476)	61985	50.0000	43.57
59	Chlorobenzene	112	8.208	8.208	(1.003)	205829	50.0000	48.21
60	1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	70187	50.0000	47.35
61	Ethylbenzene	106	8.305	8.305	(1.015)	103094	50.0000	47.14
62	m,p-Xylenes	106	8.406	8.406	(1.027)	264821	100.000	97.45
63	o-Xylene	106	8.744	8.744	(1.069)	129961	50.0000	49.41
64	Styrene	104	8.759	8.759	(1.071)	209763	50.0000	49.31
66	Bromoform	173	8.916	8.916	(1.090)	39968	50.0000	39.32
67	Isopropylbenzene	105	9.059	9.059	(1.107)	324129	50.0000	51.88
68	1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	98749	50.0000	44.07
$ 69	4-Bromofluorobenzene	95	9.190	9.190	(1.123)	125771	50.0000	56.43
* 70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	168595	50.0000	
71	1,2,3-Trichloropropane	75	9.359	9.359	(0.920)	93901	50.0000	41.09
72	trans-1,4-Dichloro-2-butene	53	9.374	9.374	(1.146)	19030	50.0000	40.08
73	n-Propylbenzene	91	9.411	9.411	(0.926)	372900	50.0000	48.65
74	Bromobenzene	156	9.314	9.314	(0.916)	88909	50.0000	46.49
75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	259061	50.0000	51.33

76	2-Chlorotoluene	91	9.479	9.479 (0.932)	230710	50.0000	46.42
77	4-Chlorotoluene	91	9.572	9.572 (0.941)	268324	50.0000	46.88

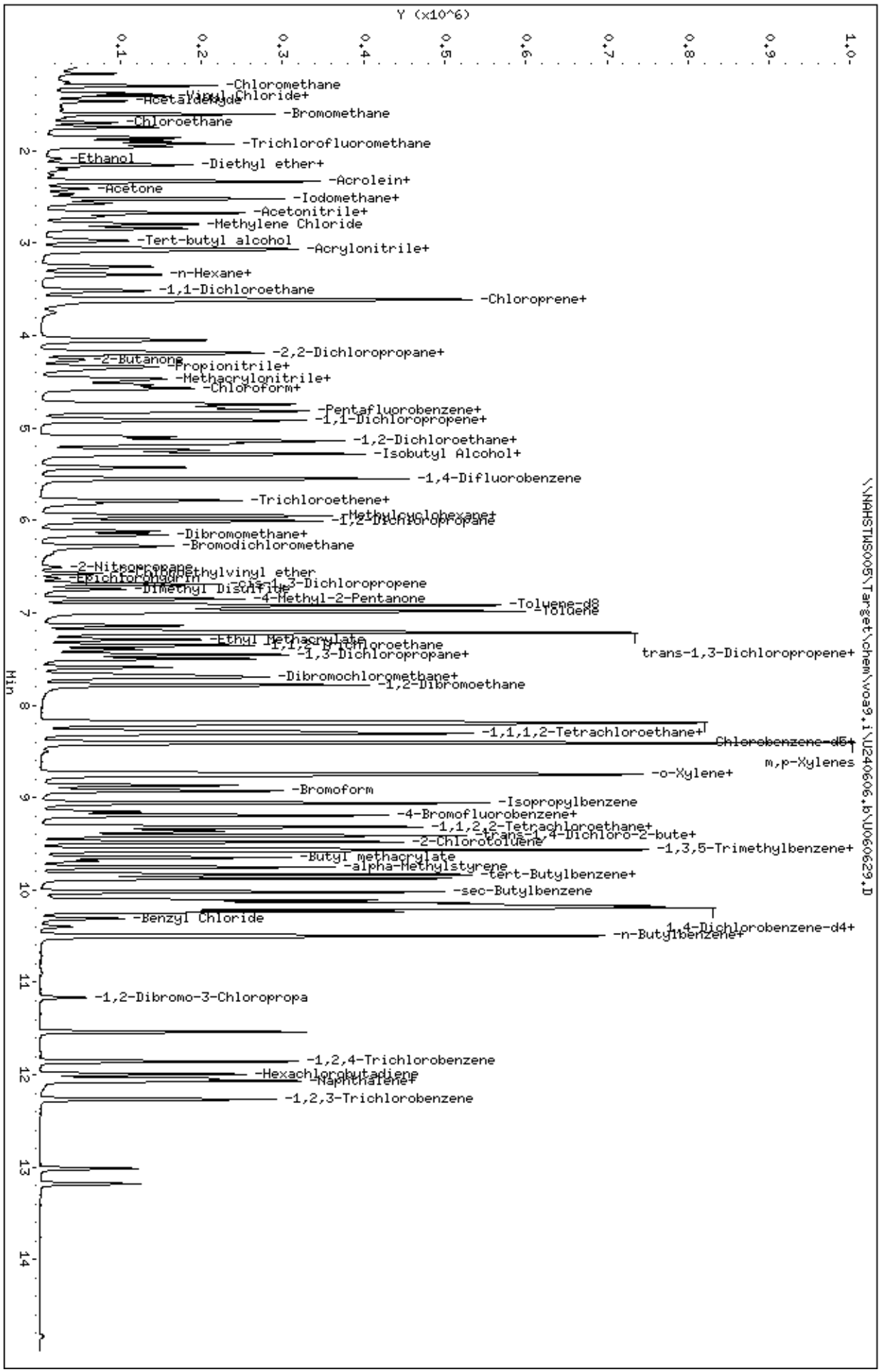
						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
78 tert-Butylbenzene	119	9.835	9.835	(0.967)	230179	50.0000	49.91
79 1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	252535	50.0000	48.37
81 sec-Butylbenzene	105	10.018	10.018	(0.985)	312651	50.0000	51.28
82 p-Isopropyltoluene	119	10.146	10.146	(0.998)	264335	50.0000	51.04
83 1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	156009	50.0000	43.99
84 1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	164820	50.0000	46.90
86 Benzyl Chloride	91	10.307	10.307	(1.260)	66664	50.0000	34.97
87 n-Butylbenzene	91	10.491	10.491	(1.032)	232561	50.0000	44.99
88 1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	154951	50.0000	46.57
89 1,2-Dibromo-3-Chloropropane	155	11.166	11.166	(1.098)	11127	50.0000	40.93
90 1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	95729	50.0000	43.12
91 Hexachlorobutadiene	225	11.994	11.994	(1.180)	45358	50.0000	47.00
92 Naphthalene	128	12.065	12.065	(1.187)	215323	50.0000	40.87
93 1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	86381	50.0000	44.46
146 Methyl acetate	43	2.712	2.712	(0.563)	78673	50.0000	46.85
138 Freon TF	101	2.334	2.334	(0.485)	58767	50.0000	51.55
141 Cyclohexane	56	4.782	4.782	(0.993)	100245	50.0000	48.17
142 Tetrahydrofuran	42	4.542	4.542	(0.943)	25272	100.000	84.28
147 Methylcyclohexane	55	5.944	5.944	(1.071)	168518	50.0000	43.42
135 1,4-Dioxane	88	6.165	6.165	(1.280)	14842	1000.00	837.46
132 n-Butanol	56	5.820	5.820	(1.209)	36112	1000.00	737.47
136 n-Hexane	57	3.338	3.338	(0.693)	72062	50.0000	49.29
139 Diethyl ether	59	2.146	2.146	(0.446)	50484	50.0000	44.00
148 Tert-butyl alcohol	59	2.971	2.971	(0.617)	114738	1000.00	807.81
149 Isopropyl alcohol	45	2.566	2.566	(0.533)	91428	1000.00	801.07
156 Diisopropyl ether	45	3.619	3.619	(0.752)	240523	50.0000	45.90
162 Butyl acrylate	55	8.733	8.733	(1.067)	119077	50.0000	39.32
164 Dicyclopentadiene	66	10.198	10.198	(1.003)	345388	50.0000	43.21
166 1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	230574	50.0000	43.60
167 Ethanol	45	2.086	2.086	(0.433)	17388	1000.00	843.96
172 tert-Butyl formate	59	5.239	5.239	(1.088)	109467	100.000	79.41
151 4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	378467	1000.00	744.90
140 1,3-Butadiene	54	1.404	1.404	(0.292)	39157	50.0000	50.70
182 Epichlorohydrin	57	6.630	6.630	(1.195)	14361	200.000	157.64
M 94 1,2-Dichloroethylene (total)	96				148869	100.000	(a)
145 alpha-Methylstyrene	118	9.752	9.752	(0.959)	97394	50.0000	47.44
131 Methyl Acrylate	55	4.365	4.365	(0.907)	78509	50.0000	41.75
134 Cyclohexanone	55	9.152	9.152	(0.900)	47483	1000.00	654.09
185 Isoprene	39	2.154	2.154	(0.447)	18127	50.0000	46.61
188 Isopropyl acetate	43	5.284	5.284	(0.952)	207042	50.0000	43.08
150 Allyl alcohol	57	3.338	3.338	(0.693)	72062	1000.00	985.80
194 Acetaldehyde	44	1.460	1.460	(0.303)	101922	200.000	292.96
200 Dimethyl Disulfide	94	6.742	6.742	(0.824)	38765	50.0000	43.23
133 Ethyl Acrylate	55	5.944	5.944	(1.234)	168518	50.0000	42.97
163 Butyl methacrylate	41	9.647	9.647	(0.949)	79637	50.0000	45.84
159 Propylene oxide	43	2.199	2.199	(0.457)	10081	100.000	77.42
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	75020	50.0000	42.20
204 Tetrahydrothiophene	60	7.668	7.668	(0.937)	61631	50.0000	42.38(A)
205 sec-Butyl Ether	57	7.214	7.214	(0.882)	84780	50.0000	22.57(A)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

QC Flag Legend

A - Target compound detected but, quantitated amount
    exceeded maximum amount.



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060629.D
Date : 06-JUN-2024 20:37
Client ID: VSTD050
Sample Info: VSTD050;VSTD050;2;;CCV
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240606.b\U060629.D
Inj Date : 06-JUN-2024 20:37
InstruID : VOA9.i
LabSampID : VSTD050

NO MANUAL INTEGRATIONS

right solutions.
right partner.

RawData

<textMethods>

Workorder

HS24051959

Client

Bhate Environmental Associates, Inc.

Project

LHAAP-58

07/03/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Data File: \\nahstws005\Target\chem\voa9.i\U240606.b\UV60601.D Page 1
Report Date: 07-Jun-2024 10:16

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240606.b\UV60601.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 06-JUN-2024 21:20
Operator : TS Inst ID: VOA9.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240606.b\bfb.m
Meth Date : 27-Jan-2023 08:08 apoluri Quant Type: ISTD
Cal Date : 30-MAR-2018 18:09 Cal File: U033003.d
Als bottle: 29 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	2.000	Injection Volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/l)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
9.190	9.180	(0.000)	95	109792			0.00- 100.00	100.00
9.190	9.180	(0.000)	50	21152			15.00- 40.00	19.27
9.190	9.180	(0.000)	75	54544			30.00- 60.00	49.68
9.190	9.180	(0.000)	96	7085			5.00- 9.00	6.45
9.190	9.180	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
9.190	9.180	(0.000)	174	95664			50.00- 0.00	87.13
9.190	9.180	(0.000)	175	8169			5.00- 9.00	8.54
9.190	9.180	(0.000)	176	93912			95.00- 101.00	98.17
9.190	9.180	(0.000)	177	6350			5.00- 9.00	6.76

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\UV60602.D Page 1
Report Date: 22-Jun-2024 12:42

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240606.b\UV60602.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 06-JUN-2024 21:42
Operator : TS Inst ID: VOA9.i
Smp Info : VSTD050;VSTD050;2;;CCV
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240606.b\8260C.m
Meth Date : 22-Jun-2024 12:42 VOA9.i Quant Type: ISTD
Cal Date : 05-JUN-2024 20:24 Cal File: W060506.D
Als bottle: 30 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.812	4.812	(1.000)	231831	50.0000	
2	Dichlorodifluoromethane	85	1.157	1.157	(0.240)	41560	50.0000	57.61
3	Chloromethane	50	1.288	1.288	(0.268)	154985	50.0000	58.45
4	Propionitrile	54	4.328	4.328	(0.900)	115413	500.000	513.71
5	Vinyl Chloride	62	1.366	1.366	(0.284)	82181	50.0000	52.20
6	Bromomethane	94	1.595	1.595	(0.332)	36436	50.0000	51.13
7	Chloroethane	64	1.681	1.681	(0.350)	59493	50.0000	52.26
8	Trichlorofluoromethane	101	1.884	1.884	(0.392)	109976	50.0000	54.17
9	Acrolein	56	2.255	2.255	(0.469)	8612	100.000	114.12
10	Acetone	43	2.401	2.401	(0.499)	67012	100.000	109.00
11	1,1-Dichloroethene	96	2.322	2.322	(0.483)	67791	50.0000	50.98
12	Isobutyl Alcohol	43	5.280	5.280	(1.097)	237280	1000.00	962.34
13	Acetonitrile	39	2.660	2.660	(0.553)	95443	500.000	497.80
14	Allyl Chloride	41	2.664	2.664	(0.554)	217959	50.0000	50.13
15	Iodomethane	142	2.457	2.457	(0.511)	46362	100.000	138.85
16	Acrylonitrile	53	3.057	3.057	(0.635)	58217	100.000	100.04
17	Methylene Chloride	84	2.783	2.783	(0.579)	84869	50.0000	53.12
18	Methyl tert-butyl ether	73	3.072	3.072	(0.639)	193308	50.0000	48.96
19	Carbon Disulfide	76	2.510	2.510	(0.522)	380406	100.000	99.82
20	trans-1,2-Dichloroethene	96	3.050	3.050	(0.634)	73161	50.0000	51.39

21 Vinyl Acetate	43	4.332	4.332 (0.900)	88771	100.000	98.00
22 1,1-Dichloroethane	63	3.503	3.503 (0.728)	145275	50.0000	52.15

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
23	Chloroprene	53	3.601	3.601	(0.748)	121311	50.0000	51.32
24	2-Butanone	43	4.257	4.257	(0.885)	86437	100.000	101.14
25	Methacrylonitrile	41	4.485	4.485	(0.932)	48728	50.0000	47.58(a)
26	2,2-Dichloropropane	77	4.174	4.174	(0.868)	93631	50.0000	47.46
27	cis-1,2-Dichloroethene	96	4.189	4.189	(0.871)	87020	50.0000	50.86
28	Chloroform	83	4.564	4.564	(0.949)	146356	50.0000	47.89
29	Bromochloromethane	128	4.463	4.463	(0.928)	43004	50.0000	51.58
$ 30	Dibromofluoromethane	113	4.740	4.740	(0.985)	88663	50.0000	53.05
31	1,1,1-Trichloroethane	97	4.737	4.737	(0.984)	115178	50.0000	52.49
32	1,1-Dichloropropene	75	4.917	4.917	(0.886)	108224	50.0000	49.44
33	1,2-Dichloroethane	62	5.168	5.168	(0.932)	121236	50.0000	51.80
34	Carbon Tetrachloride	117	4.905	4.905	(0.884)	93580	50.0000	51.81
$ 35	1,2-Dichloroethane-d4	65	5.089	5.089	(1.058)	110250	50.0000	54.11
* 36	1,4-Difluorobenzene	114	5.546	5.546	(1.000)	338859	50.0000	
37	Benzene	78	5.130	5.130	(0.925)	330941	50.0000	51.53
38	Trichloroethene	130	5.782	5.782	(1.043)	83879	50.0000	49.70
39	Bromodichloromethane	83	6.274	6.274	(1.131)	98029	50.0000	48.75
40	Methyl Methacrylate	41	5.820	5.820	(1.210)	34473	50.0000	48.75
41	2-Chloroethylvinyl ether	63	6.573	6.573	(1.185)	36223	100.000	88.24
42	1,2-Dichloropropane	63	6.004	6.004	(1.082)	91151	50.0000	50.74
43	2-Nitropropane	43	6.502	6.502	(1.351)	18598	50.0000	55.67
44	Dibromomethane	93	6.112	6.112	(1.102)	51432	50.0000	49.68
45	4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	172366	100.000	92.68
46	cis-1,3-Dichloropropene	75	6.686	6.686	(1.205)	120304	50.0000	46.03
* 47	Chlorobenzene-d5	117	8.182	8.182	(1.000)	306561	50.0000	
$ 48	Toluene-d8	98	6.918	6.918	(0.846)	346116	50.0000	56.22
49	Ethyl Methacrylate	69	7.286	7.286	(1.314)	105025	50.0000	47.90
50	Toluene	91	6.978	6.978	(0.853)	342298	50.0000	50.01
51	trans-1,3-Dichloropropene	75	7.192	7.192	(1.297)	98338	50.0000	45.30
52	2-Hexanone	43	7.214	7.214	(0.882)	126900	100.000	99.23
53	1,1,2-Trichloroethane	83	7.349	7.349	(0.898)	66571	50.0000	51.19
54	1,3-Dichloropropane	76	7.496	7.496	(0.916)	143268	50.0000	51.15
55	Dibromochloromethane	129	7.687	7.687	(0.940)	76986	50.0000	47.62
56	Tetrachloroethene	164	7.454	7.454	(0.911)	66775	50.0000	50.19
57	1,2-Dibromoethane	107	7.781	7.781	(0.951)	76769	50.0000	49.96
58	1-Chlorohexane	55	8.193	8.193	(1.477)	65955	50.0000	46.16
59	Chlorobenzene	112	8.208	8.208	(1.003)	219807	50.0000	51.53
60	1,1,1,2-Tetrachloroethane	131	8.279	8.279	(1.012)	75237	50.0000	50.79
61	Ethylbenzene	106	8.305	8.305	(1.015)	112314	50.0000	51.38
62	m,p-Xylenes	106	8.407	8.407	(1.027)	286879	100.000	105.62
63	o-Xylene	106	8.744	8.744	(1.069)	139901	50.0000	53.22
64	Styrene	104	8.759	8.759	(1.071)	227542	50.0000	53.52
66	Bromoform	173	8.916	8.916	(1.090)	43963	50.0000	42.92
67	Isopropylbenzene	105	9.059	9.059	(1.107)	348747	50.0000	55.85
68	1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	109951	50.0000	49.93
$ 69	4-Bromofluorobenzene	95	9.190	9.190	(1.123)	128730	50.0000	57.79
* 70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	165791	50.0000	
71	1,2,3-Trichloropropane	75	9.359	9.359	(0.920)	105526	50.0000	46.78
72	trans-1,4-Dichloro-2-butene	53	9.374	9.374	(1.146)	21653	50.0000	45.53
73	n-Propylbenzene	91	9.407	9.407	(0.925)	408904	50.0000	54.25
74	Bromobenzene	156	9.314	9.314	(0.916)	95402	50.0000	50.70
75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	279976	50.0000	56.41

76	2-Chlorotoluene	91	9.479	9.479 (0.932)	248669	50.0000	50.88
77	4-Chlorotoluene	91	9.572	9.572 (0.941)	285575	50.0000	50.73

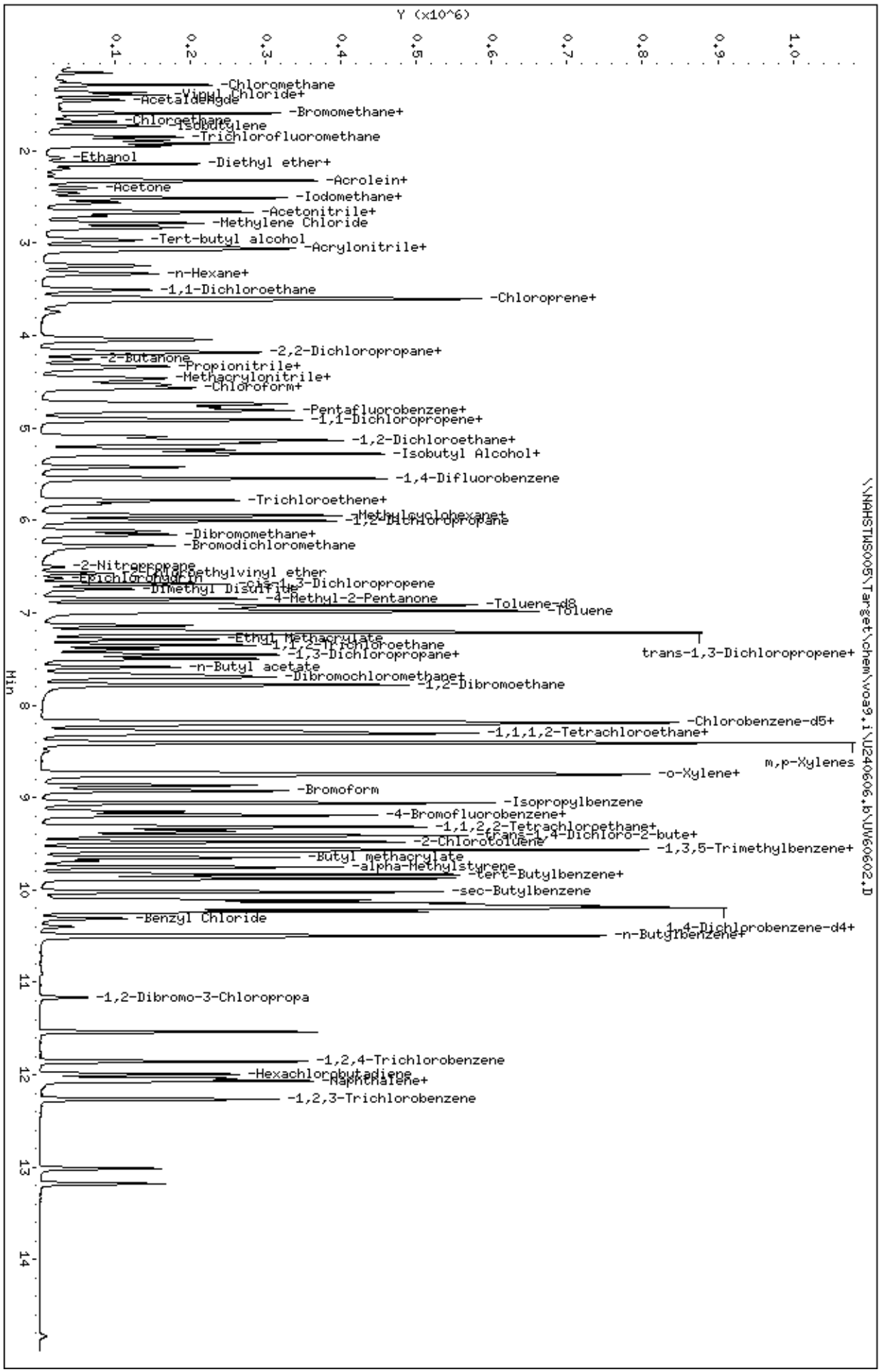
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Report Date: 22-Jun-2024 12:42

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	245938	50.0000	54.23
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	274805	50.0000	53.53
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	333408	50.0000	55.61
82	p-Isopropyltoluene	119	10.142	10.142	(0.997)	285641	50.0000	56.08
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	166412	50.0000	47.72
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	174411	50.0000	50.48
86	Benzyl Chloride	91	10.307	10.307	(1.260)	75129	50.0000	39.12
87	n-Butylbenzene	91	10.491	10.491	(1.032)	247537	50.0000	48.55
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	168166	50.0000	51.40
89	1,2-Dibromo-3-Chloropropane	155	11.166	11.166	(1.098)	12417	50.0000	46.06
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	103746	50.0000	47.34
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	47844	50.0000	50.41
92	Naphthalene	128	12.065	12.065	(1.187)	244945	50.0000	46.98
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	96200	50.0000	50.35
146	Methyl acetate	43	2.705	2.705	(0.562)	86481	50.0000	51.72
138	Freon TF	101	2.322	2.322	(0.483)	61856	50.0000	54.32
141	Cyclohexane	56	4.774	4.774	(0.992)	107324	50.0000	51.62
142	Tetrahydrofuran	42	4.534	4.534	(0.942)	29873	100.000	99.93
147	Methylcyclohexane	55	5.944	5.944	(1.072)	194752	50.0000	49.95
135	1,4-Dioxane	88	6.161	6.161	(1.280)	17939	1000.00	1013.40
132	n-Butanol	56	5.820	5.820	(1.210)	46960	1000.00	943.33
136	n-Hexane	57	3.331	3.331	(0.692)	73879	50.0000	50.57
139	Diethyl ether	59	2.135	2.135	(0.444)	57171	50.0000	49.90
148	Tert-butyl alcohol	59	2.963	2.963	(0.616)	140685	1000.00	989.69
149	Isopropyl alcohol	45	2.559	2.559	(0.532)	114472	1000.00	1002.27
156	Diisopropyl ether	45	3.612	3.612	(0.751)	269139	50.0000	51.39
162	Butyl acrylate	55	8.729	8.729	(1.067)	137622	50.0000	45.47
164	Dicyclopentadiene	66	10.195	10.195	(1.003)	386999	50.0000	49.11
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	256006	50.0000	49.11
167	Ethanol	45	2.079	2.079	(0.432)	21457	1000.00	1045.31
172	tert-Butyl formate	59	5.239	5.239	(1.089)	138011	100.000	100.10
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.301)	461471	1000.00	892.06
140	1,3-Butadiene	54	1.393	1.393	(0.290)	42096	50.0000	54.53
182	Epichlorohydrin	57	6.626	6.626	(1.195)	18088	200.000	194.87
M 94	1,2-Dichloroethylene (total)	96				160181	100.000	(a)
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	106956	50.0000	52.98
130	Ethyl Acetate	43	4.530	4.530	(0.942)	33100	50.0000	53.29(M)
131	Methyl Acrylate	55	4.362	4.362	(0.907)	92812	50.0000	49.28
189	n-Butyl acetate	43	7.586	7.586	(0.927)	104441	50.0000	45.55(M)
134	Cyclohexanone	55	9.149	9.149	(0.900)	73456	1000.00	1023.60
185	Isoprene	39	2.146	2.146	(0.446)	20382	50.0000	52.47
188	Isopropyl acetate	43	5.280	5.280	(0.952)	236410	50.0000	48.84
150	Allyl alcohol	57	3.331	3.331	(0.692)	73879	1000.00	1011.54
194	Acetaldehyde	44	1.449	1.449	(0.301)	67745	200.000	195.33(M)
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	46762	50.0000	50.58
202	Isobutylene	41	1.734	1.734	(0.360)	40420	50.0000	53.31(M)
133	Ethyl Acrylate	55	5.944	5.944	(1.235)	194752	50.0000	49.72
163	Butyl methacrylate	41	9.647	9.647	(0.949)	88115	50.0000	51.42
159	Propylene oxide	43	2.191	2.191	(0.455)	11622	100.000	89.36
178	Ethylene oxide	44	1.591	1.591	(0.331)	168711	100.000	50.76(M)
203	2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	87381	50.0000	49.20
204	Tetrahydrothiophene	60	7.668	7.668	(0.937)	74144	50.0000	51.01(A)

205 sec-Butyl Ether	57	7.214	7.214 (0.882)	162963	50.0000	43.41(AM)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.



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Client ID: VSTD050
Sample Info: VSTD050;VSTD050;2;;CCV
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

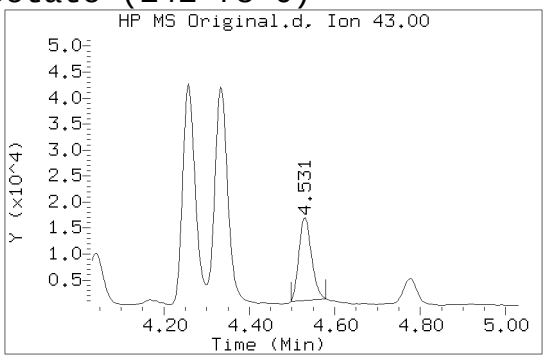
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InstruID : VOA9.i
LabSampID : VSTD050

Ethyl Acetate (141-78-6)

Reason Code:

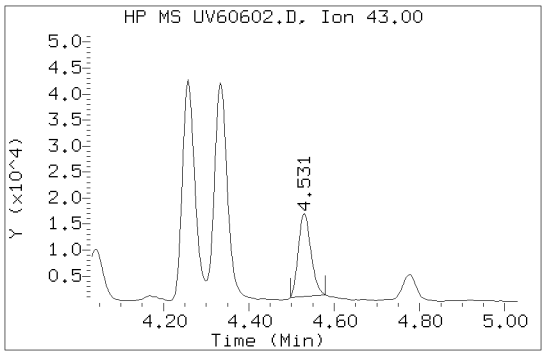
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PATEL



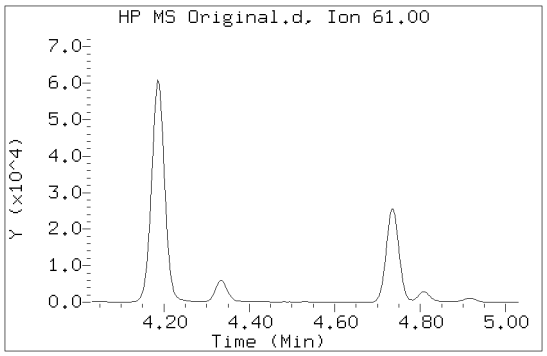
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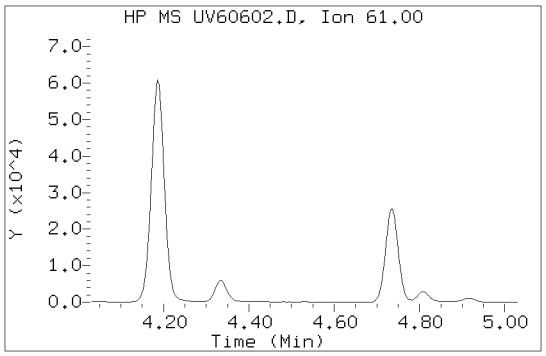
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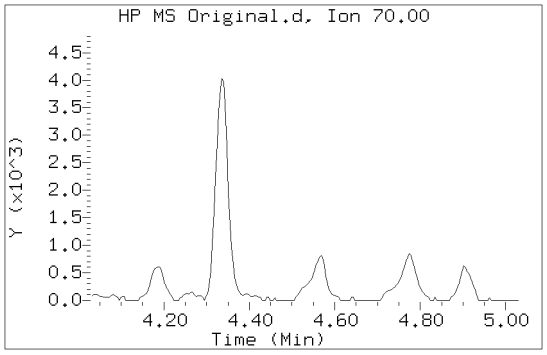
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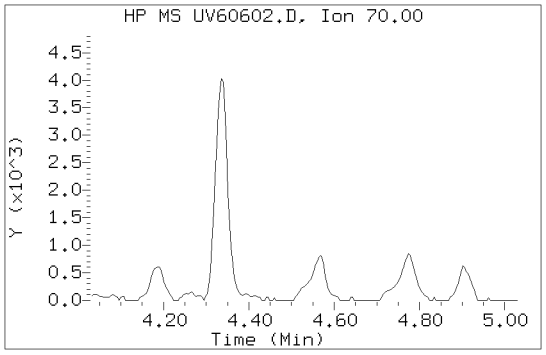
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AFTER

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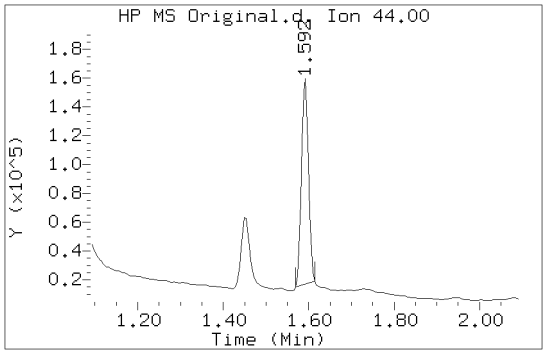


Ethylene oxide (75-21-8)

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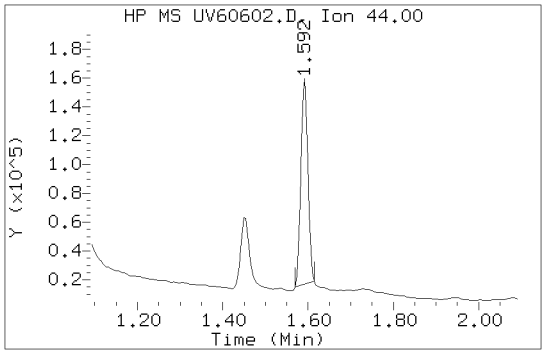
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22-Jun-2024
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AFTER

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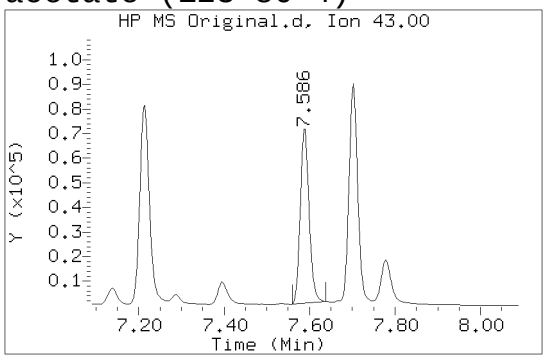
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Inj Date : 06-JUN-2024 21:42
InstruID : VOA9.i
LabSampID : VSTD050

n-Butyl acetate (123-86-4)

Reason Code:

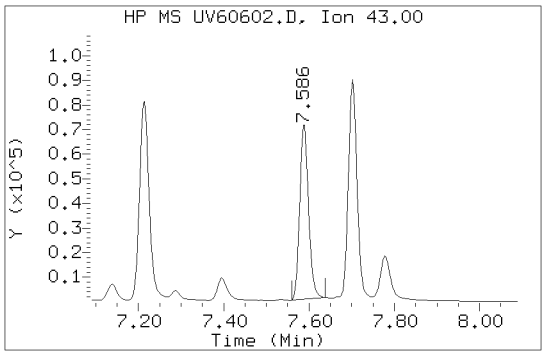
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22-Jun-2024
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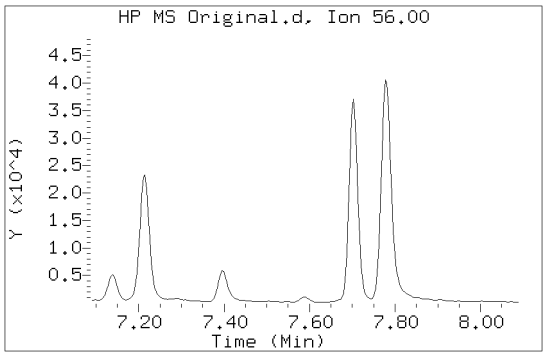
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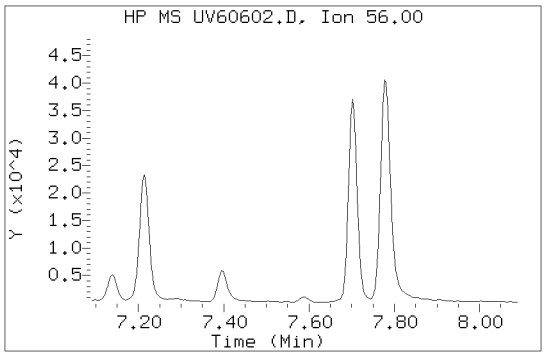
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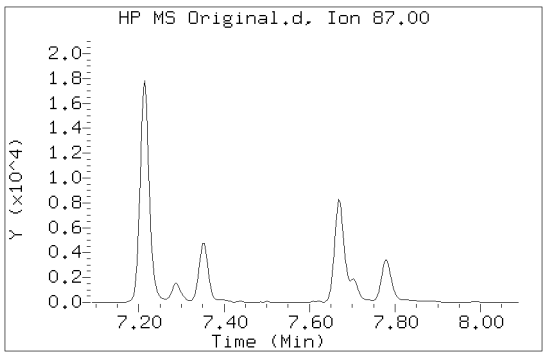
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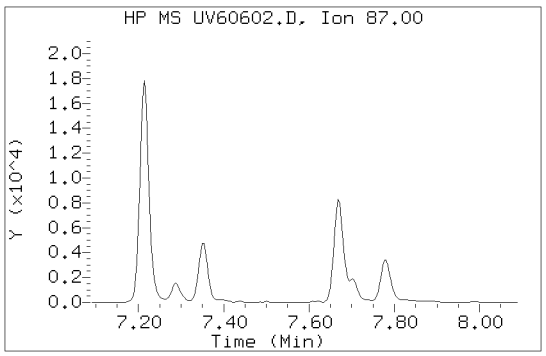
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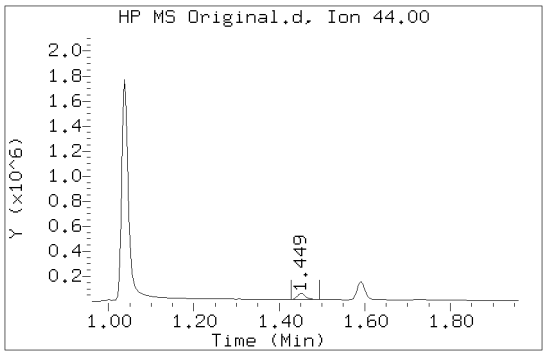


Acetaldehyde (75-07-0)

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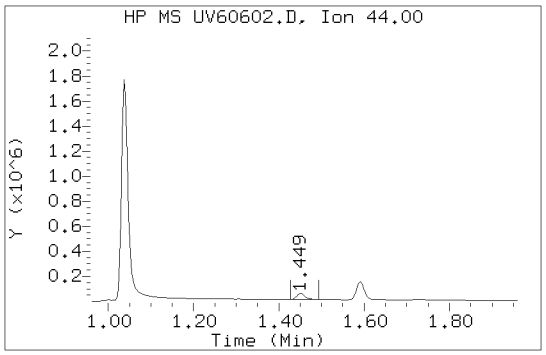
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AFTER

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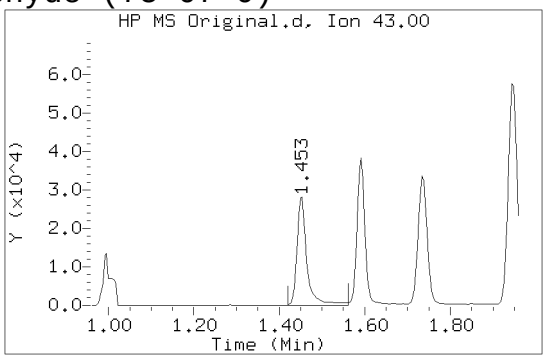
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InstruID : VOA9.i
LabSampID : VSTD050

Acetaldehyde (75-07-0)

Reason Code:

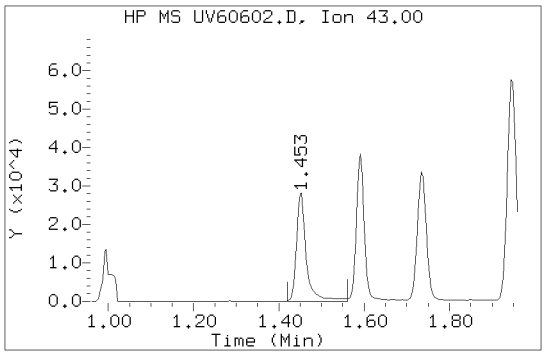
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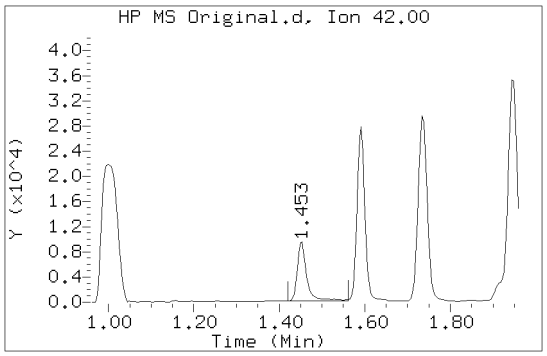
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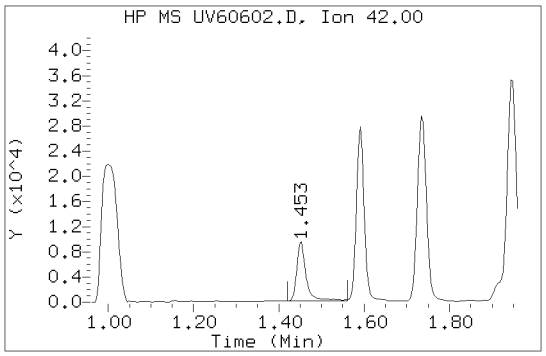
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AFTER

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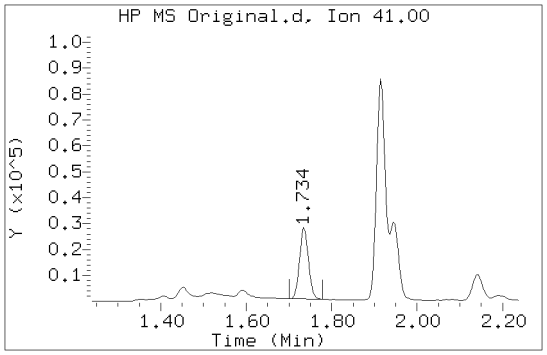


Isobutylene (115-11-7)

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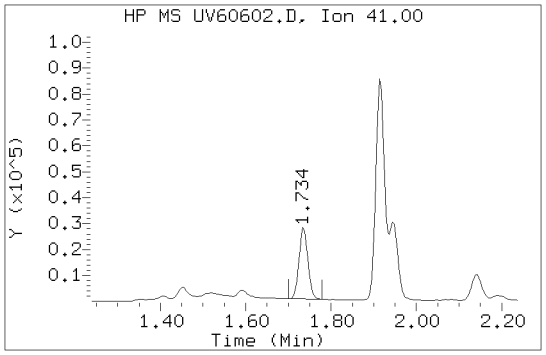
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PATEL



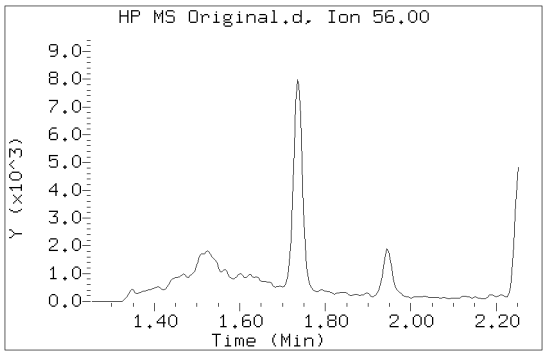
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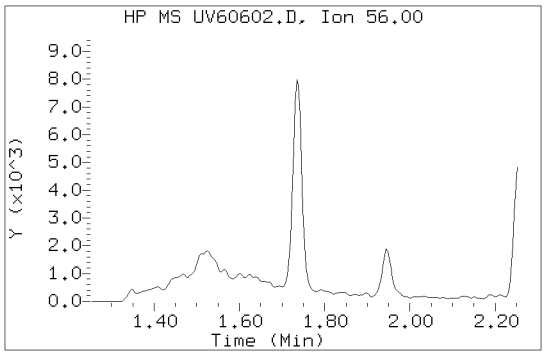
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AFTER

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22-Jun-2024
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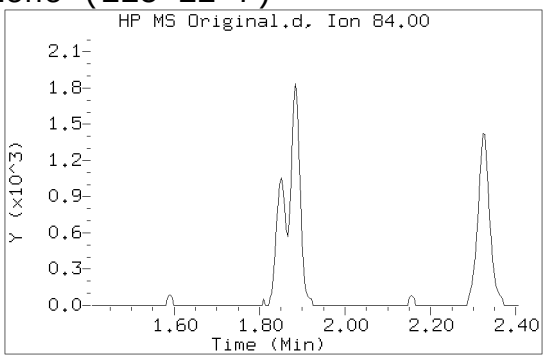
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LabSampID : VSTD050

Isobutylene (115-11-7)

Reason Code:

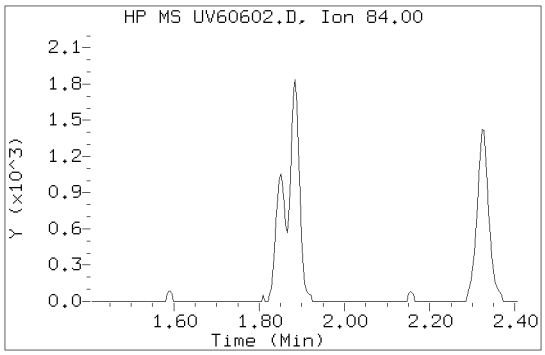
BEFORE

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AFTER

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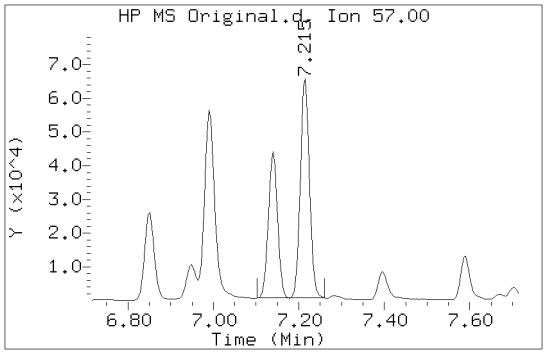


sec-Butyl Ether (6863-58-7)

Reason Code:

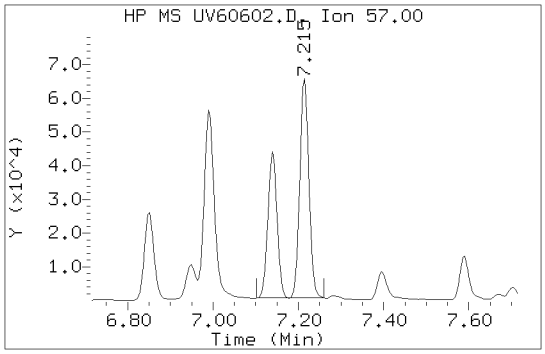
BEFORE

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22-Jun-2024
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AFTER

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Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\UV60603.D Page 1
Report Date: 22-Jun-2024 12:42

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240606.b\UV60603.D
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Inj Date : 06-JUN-2024 22:25
Operator : TS Inst ID: VOA9.i
Smp Info : VLCSW-240606;VLCSW-240606;3;;LCS
Misc Info : V9;WATER;0;1;
Comment   :
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Meth Date : 22-Jun-2024 12:42 VOA9.i Quant Type: ISTD
Cal Date : 05-JUN-2024 20:24 Cal File: W060506.D
Als bottle: 31 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.811	4.812	(1.000)	238533	50.0000	
2 Dichlorodifluoromethane	85	1.160	1.157	(0.241)	14096	19.5284	19.52
3 Chloromethane	50	1.295	1.288	(0.269)	56093	18.2391	18.23
4 Propionitrile	54	4.335	4.328	(0.901)	39438	171.579	171.57(a)
5 Vinyl Chloride	62	1.374	1.366	(0.286)	29775	18.3821	18.38
6 Bromomethane	94	1.606	1.595	(0.334)	14533	19.4803	19.48
7 Chloroethane	64	1.692	1.681	(0.352)	21676	18.3900	18.38
8 Trichlorofluoromethane	101	1.891	1.884	(0.393)	38790	18.5720	18.57
9 Acrolein	56	2.262	2.255	(0.470)	2910	35.6911	35.69
10 Acetone	43	2.405	2.401	(0.500)	26108	38.6100	38.60
11 1,1-Dichloroethene	96	2.326	2.322	(0.483)	24454	17.8751	17.87
12 Isobutyl Alcohol	43	5.280	5.280	(1.097)	80550	317.511	317.51(a)
13 Acetonitrile	39	2.667	2.660	(0.554)	31466	160.707	160.70(a)
14 Allyl Chloride	41	2.667	2.664	(0.554)	72108	16.1707	16.17(a)
15 Iodomethane	142	2.461	2.457	(0.512)	20410	67.8519	67.85
16 Acrylonitrile	53	3.064	3.057	(0.637)	19865	32.1908	32.19
17 Methylene Chloride	84	2.791	2.783	(0.580)	30954	17.9323	17.93
18 Methyl tert-butyl ether	73	3.076	3.072	(0.639)	67638	16.6177	16.61
19 Carbon Disulfide	76	2.517	2.510	(0.523)	134653	34.3420	34.34
20 trans-1,2-Dichloroethene	96	3.053	3.050	(0.635)	25721	17.6100	17.60

21 Vinyl Acetate	43	4.339	4.332 (0.902)	30829	33.3774	33.37
22 1,1-Dichloroethane	63	3.511	3.503 (0.730)	50864	17.5382	17.53

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\UV60603.D Page 2
Report Date: 22-Jun-2024 12:42

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	23 Chloroprene	53	3.604	3.601	(0.749)	42287	17.3893	17.38
	24 2-Butanone	43	4.264	4.257	(0.886)	31894	35.7784	35.77
	25 Methacrylonitrile	41	4.493	4.485	(0.934)	17070	17.1725	17.17(a)
	26 2,2-Dichloropropane	77	4.178	4.174	(0.868)	31452	15.4959	15.49
	27 cis-1,2-Dichloroethene	96	4.193	4.189	(0.871)	30904	17.6673	17.66
	28 Chloroform	83	4.568	4.564	(0.949)	51776	16.4693	16.46
	29 Bromochloromethane	128	4.466	4.463	(0.928)	15425	17.6455	17.64
$	30 Dibromofluoromethane	113	4.744	4.740	(0.986)	90772	52.7948	52.79
	31 1,1,1-Trichloroethane	97	4.736	4.737	(0.984)	39958	17.7017	17.70
	32 1,1-Dichloropropene	75	4.916	4.917	(0.886)	38871	17.1219	17.12
	33 1,2-Dichloroethane	62	5.171	5.168	(0.932)	42681	17.1506	17.15
	34 Carbon Tetrachloride	117	4.909	4.905	(0.885)	30793	16.4375	16.43
$	35 1,2-Dichloroethane-d4	65	5.092	5.089	(1.058)	111188	53.0443	53.04
*	36 1,4-Difluorobenzene	114	5.550	5.546	(1.000)	351506	50.0000	
	37 Benzene	78	5.134	5.130	(0.925)	115418	17.4109	17.41
	38 Trichloroethene	130	5.786	5.782	(1.043)	29868	17.0622	17.06
	39 Bromodichloromethane	83	6.277	6.274	(1.131)	32344	15.5082	15.50
	40 Methyl Methacrylate	41	5.823	5.820	(1.210)	11611	17.5016	17.50(a)
	41 2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	10838	30.5192	30.51
	42 1,2-Dichloropropane	63	6.007	6.004	(1.082)	32352	17.3150	17.31
	43 2-Nitropropane	43	6.506	6.502	(1.352)	5572	16.2117	16.21
	44 Dibromomethane	93	6.116	6.112	(1.102)	18002	16.6422	16.64
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	56056	31.2194	31.21
	46 cis-1,3-Dichloropropene	75	6.689	6.686	(1.205)	36875	15.3360	15.33
*	47 Chlorobenzene-d5	117	8.181	8.182	(1.000)	314020	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.846)	349058	55.3520	55.35
	49 Ethyl Methacrylate	69	7.289	7.286	(1.313)	35182	15.4704	15.47(a)
	50 Toluene	91	6.978	6.978	(0.853)	120971	17.2561	17.25
	51 trans-1,3-Dichloropropene	75	7.196	7.192	(1.296)	28633	14.6010	14.60
	52 2-Hexanone	43	7.214	7.214	(0.882)	45647	33.9109	33.91
	53 1,1,2-Trichloroethane	83	7.353	7.349	(0.899)	23462	17.4757	17.47
	54 1,3-Dichloropropane	76	7.495	7.496	(0.916)	49231	17.1296	17.12
	55 Dibromochloromethane	129	7.690	7.687	(0.940)	23426	15.4813	15.48
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	23798	17.4646	17.46
	57 1,2-Dibromoethane	107	7.780	7.781	(0.951)	25434	16.5557	16.55
	58 1-Chlorohexane	55	8.193	8.193	(1.476)	25980	17.4470	17.44
	59 Chlorobenzene	112	8.208	8.208	(1.003)	77988	17.7589	17.75
	60 1,1,1,2-Tetrachloroethane	131	8.279	8.279	(1.012)	24265	15.9915	15.99
	61 Ethylbenzene	106	8.305	8.305	(1.015)	37999	16.9733	16.97
	62 m,p-Xylenes	106	8.406	8.407	(1.027)	99778	35.8657	35.86
	63 o-Xylene	106	8.744	8.744	(1.069)	47251	17.5483	17.54
	64 Styrene	104	8.759	8.759	(1.071)	78078	17.9295	17.92
	66 Bromoform	173	8.916	8.916	(1.090)	12744	14.6720	14.67
	67 Isopropylbenzene	105	9.059	9.059	(1.107)	119841	18.7391	18.73
	68 1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	37023	16.3343	16.33
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	127982	56.0957	56.09
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	168808	50.0000	
	71 1,2,3-Trichloropropane	75	9.359	9.359	(0.920)	34515	15.8903	15.89
	72 trans-1,4-Dichloro-2-butene	53	9.374	9.374	(1.146)	6929	14.6988	14.69(a)
	73 n-Propylbenzene	91	9.411	9.407	(0.926)	134976	17.5890	17.58
	74 Bromobenzene	156	9.314	9.314	(0.916)	33237	17.5462	17.54
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	93433	18.4898	18.48

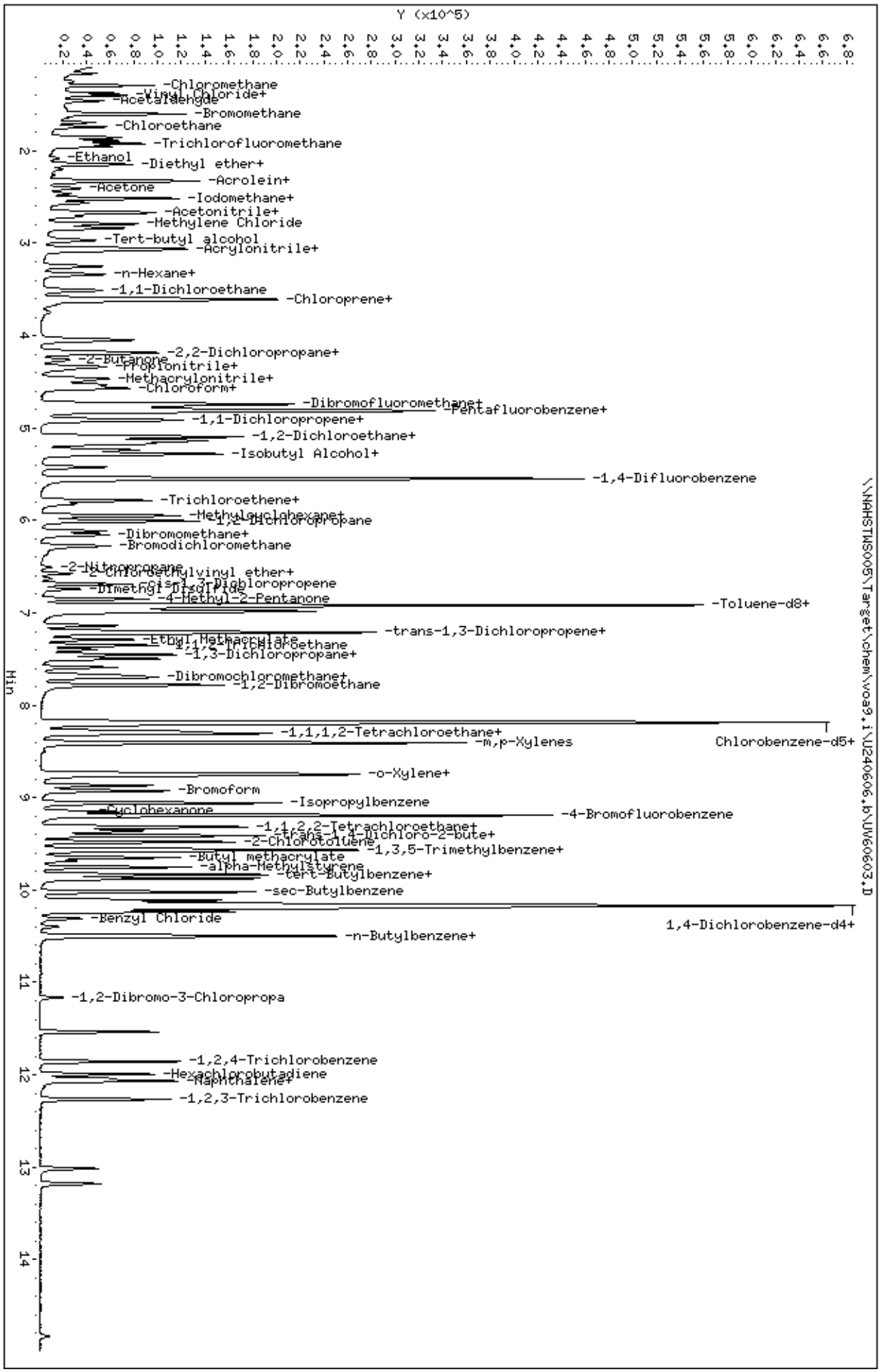
76	2-Chlorotoluene	91	9.478	9.479 (0.932)	86016	17.2855	17.28
77	4-Chlorotoluene	91	9.572	9.572 (0.941)	98061	17.1117	17.11

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\UV60603.D Page 3
Report Date: 22-Jun-2024 12:42

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	83732	18.1343	18.13
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	93934	17.9726	17.97
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	113326	18.5645	18.56
82	p-Isopropyltoluene	119	10.146	10.142	(0.998)	95346	18.3880	18.38
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	57652	16.2376	16.23
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	62086	17.5538	17.55
86	Benzyl Chloride	91	10.311	10.307	(1.260)	23214	12.9793	12.97
87	n-Butylbenzene	91	10.491	10.491	(1.032)	84707	17.4598	17.45
88	1,2-Dichlorobenzene	146	10.506	10.502	(1.033)	57820	17.3465	17.34
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.166	(1.098)	3551	14.3252	14.32
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	35488	17.0702	17.07
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	17025	17.6199	17.61
92	Naphthalene	128	12.065	12.065	(1.187)	78049	16.0044	16.00
93	1,2,3-Trichlorobenzene	180	12.267	12.268	(1.206)	34160	17.5611	17.56
146	Methyl acetate	43	2.712	2.705	(0.564)	30263	16.5875	16.58
138	Freon TF	101	2.330	2.322	(0.484)	21516	18.3661	18.36
141	Cyclohexane	56	4.778	4.774	(0.993)	41049	19.3463	19.34
142	Tetrahydrofuran	42	4.541	4.534	(0.944)	9741	31.0140	31.01
147	Methylcyclohexane	55	5.943	5.944	(1.071)	57967	14.3353	14.33
135	1,4-Dioxane	88	6.165	6.161	(1.281)	6286	345.223	345.22
132	n-Butanol	56	5.823	5.820	(1.210)	15182	334.645	334.64(a)
136	n-Hexane	57	3.334	3.331	(0.693)	25274	17.2455	17.24
139	Diethyl ether	59	2.142	2.135	(0.445)	19694	16.6581	16.65
148	Tert-butyl alcohol	59	2.967	2.963	(0.617)	48374	336.580	336.57
149	Isopropyl alcohol	45	2.562	2.559	(0.533)	38107	329.381	329.38
156	Diisopropyl ether	45	3.619	3.612	(0.752)	91926	17.2210	17.22
162	Butyl acrylate	55	8.732	8.729	(1.067)	45629	14.7196	14.71
164	Dicyclopentadiene	66	10.198	10.195	(1.003)	124677	16.1941	16.19
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	83370	16.3147	16.31
167	Ethanol	45	2.082	2.079	(0.433)	7540	349.730	349.73
172	tert-Butyl formate	59	5.239	5.239	(1.089)	44013	31.4041	31.40
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	143267	306.508	306.50
140	1,3-Butadiene	54	1.400	1.393	(0.291)	14045	18.0192	18.01
182	Epichlorohydrin	57	6.629	6.626	(1.195)	5894	64.6980	64.69
M 94	1,2-Dichloroethylene (total)	96				56625	31.9359	31.93
M 95	Xylenes (total)	106				147029	52.8817	52.88
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	34903	16.9816	16.98
131	Methyl Acrylate	55	4.365	4.362	(0.907)	30249	16.1221	16.12
134	Cyclohexanone	55	9.152	9.149	(0.900)	26305	358.093	358.09(a)
185	Isoprene	39	2.150	2.146	(0.447)	6817	17.0576	17.05
188	Isopropyl acetate	43	5.280	5.280	(0.951)	80550	16.4001	16.40
150	Allyl alcohol	57	3.334	3.331	(0.693)	25274	344.909	344.90
194	Acetaldehyde	44	1.456	1.449	(0.303)	49025	137.714	137.71
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	12451	15.5030	15.50
133	Ethyl Acrylate	55	5.943	5.944	(1.235)	57967	14.3858	14.38
163	Butyl methacrylate	41	9.647	9.647	(0.949)	36672	21.0760	21.07
159	Propylene oxide	43	2.199	2.191	(0.457)	5148	38.4721	38.47
203	2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	22674	14.1052	14.10
204	Tetrahydrothiophene	60	7.672	7.668	(0.938)	24253	16.2925	16.29(A)
205	sec-Butyl Ether	57	7.214	7.214	(0.882)	35391	9.20356	9.20(A)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.



Data File: \\NAHSTWS005\Target\chem\voa9,i\U240606,b\UW60603,D
Date : 06-JUN-2024 22:25
Client ID: VLCSW-240606
Sample Info: VLCSW-240606;VLCSW-240606;3;;LCS
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: TS
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240606.b\UV60603.D
Inj Date : 06-JUN-2024 22:25
InstruID : VOA9.i
LabSampID : VLCSW-240606

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\UV60606.D Page 1
Report Date: 22-Jun-2024 12:42

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240606.b\UV60606.D
Lab Smp Id: VBLKW-240606 Client Smp ID: VBLKW-240606
Inj Date : 06-JUN-2024 23:29
Operator : TS Inst ID: VOA9.i
Smp Info : VBLKW-240606;VBLKW-240606;3;;BLANK
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240606.b\8260C.m
Meth Date : 22-Jun-2024 12:42 VOA9.i Quant Type: ISTD
Cal Date : 05-JUN-2024 20:24 Cal File: W060506.D
Als bottle: 33 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

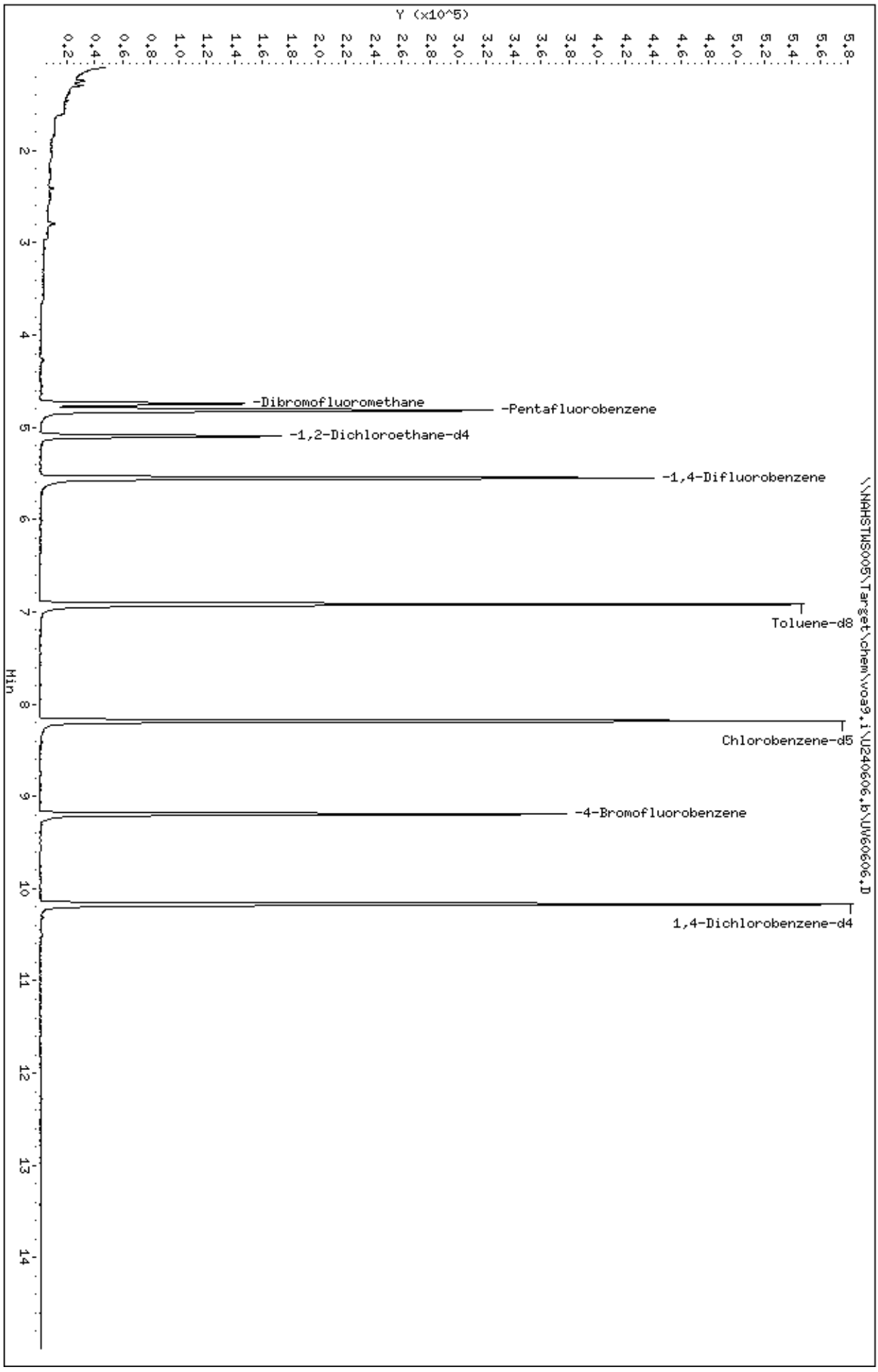
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.812	4.812	(1.000)	231984	50.0000	
$ 30 Dibromofluoromethane	113	4.744	4.740	(0.986)	85337	51.0349	51.03
$ 35 1,2-Dichloroethane-d4	65	5.093	5.089	(1.058)	110521	54.2146	54.21
* 36 1,4-Difluorobenzene	114	5.550	5.546	(1.000)	340997	50.0000	
* 47 Chlorobenzene-d5	117	8.182	8.182	(1.000)	305278	50.0000	
$ 48 Toluene-d8	98	6.918	6.918	(0.846)	333987	54.4788	54.47
$ 69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	117444	52.9509	52.95
* 70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	151631	50.0000	

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\UV60606.D
Date : 06-JUN-2024 23:29
Client ID: VBLKW-240606
Sample Info: VBLKW-240606;VBLKW-240606;3;;BLANK
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18



Data File : \\NAHSTWS005\Target\chem\voa9.i\U240606.b\UV60606.D
Inj Date : 06-JUN-2024 23:29
InstruID : VOA9.i
LabSampID : VBLKW-240606

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\UV60627.D Page 1
Report Date: 22-Jun-2024 12:42

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240606.b\UV60627.D
Lab Smp Id: HS24051959-14
Inj Date : 07-JUN-2024 07:55
Operator : TS   Inst ID: VOA9.i
Smp Info : HS24051959-14
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240606.b\8260C.m
Meth Date : 22-Jun-2024 12:42 VOA9.i   Quant Type: ISTD
Cal Date : 05-JUN-2024 20:24   Cal File: W060506.D
Als bottle: 54
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 193_tclp.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
*	1 Pentafluorobenzene	168	4.812	4.812	(1.000)	222820	50.0000	
*	36 1,4-Difluorobenzene	114	5.546	5.546	(1.000)	329312	50.0000	
*	47 Chlorobenzene-d5	117	8.182	8.182	(1.000)	300681	50.0000	
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	145456	50.0000	
$	30 Dibromofluoromethane	113	4.740	4.740	(0.985)	83295	51.8624	51.86
$	35 1,2-Dichloroethane-d4	65	5.089	5.089	(1.058)	110296	56.3294	56.32
$	48 Toluene-d8	98	6.918	6.918	(0.846)	324946	53.8144	53.81
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	113549	51.9775	51.97

01338449

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\UV60627.D

Page 1

Date : 07-JUN-2024 07:55

Client ID:

Instrument: VOA9.i

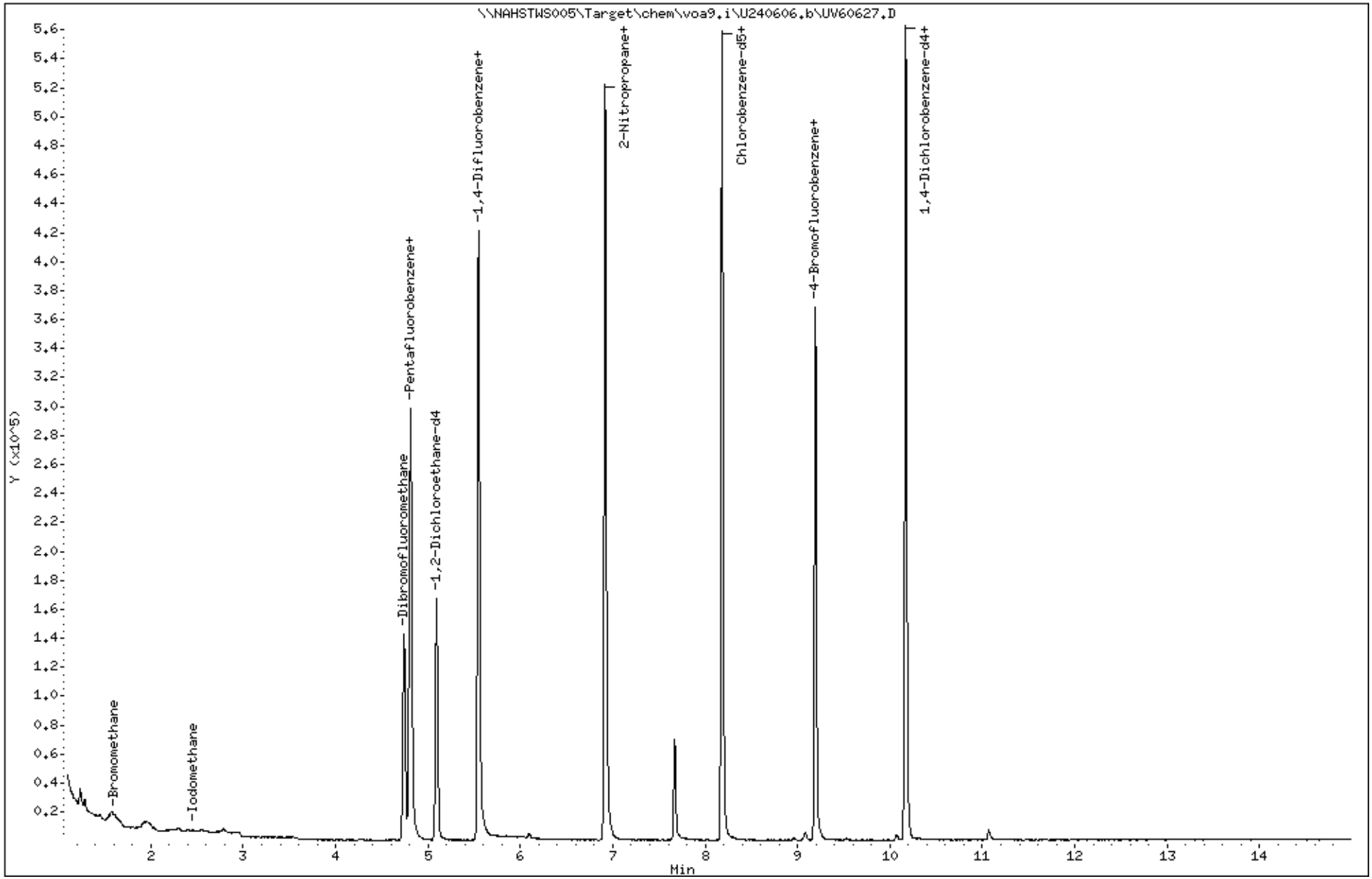
Sample Info: HS24051959-14

Purge Volume: 5.0

Operator: TS

Column phase: DB624

Column diameter: 0.18



Data File : \\NAHSTWS005\Target\chem\voa9.i\U240606.b\UV60627.D
Inj Date : 07-JUN-2024 07:55
InstruID : VOA9.i
LabSampID : HS24051959-14

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\UV60629.D Page 1
Report Date: 22-Jun-2024 12:42

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240606.b\UV60629.D
Lab Smp Id: HS24051959-14MS Client Smp ID: HS24051959-14MS
Inj Date : 07-JUN-2024 08:38
Operator : TS Inst ID: VOA9.i
Smp Info : HS24051959-14MS;HS24051959-14MS;3;;MS
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240606.b\8260C.m
Meth Date : 22-Jun-2024 12:42 VOA9.i Quant Type: ISTD
Cal Date : 05-JUN-2024 20:24 Cal File: W060506.D
Als bottle: 56 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1	Pentafluorobenzene	168	4.808	4.812	(1.000)	226262	50.0000	
2	Dichlorodifluoromethane	85	1.156	1.157	(0.241)	13377	19.5371	19.53
3	Chloromethane	50	1.288	1.288	(0.268)	55180	19.0481	19.04
4	Propionitrile	54	4.332	4.328	(0.901)	36644	168.099	168.09(a)
5	Vinyl Chloride	62	1.366	1.366	(0.284)	27186	17.6940	17.69
6	Bromomethane	94	1.603	1.595	(0.333)	13457	19.0030	19.00
7	Chloroethane	64	1.689	1.681	(0.351)	20824	18.6276	18.62
8	Trichlorofluoromethane	101	1.884	1.884	(0.392)	37079	18.7156	18.71
9	Acrolein	56	2.255	2.255	(0.469)	1446	16.6485	16.64(a)
10	Acetone	43	2.401	2.401	(0.499)	24343	37.8791	37.87
11	1,1-Dichloroethene	96	2.322	2.322	(0.483)	22751	17.5322	17.53
12	Isobutyl Alcohol	43	5.280	5.280	(1.098)	62854	261.194	261.19(a)
13	Acetonitrile	39	2.660	2.660	(0.553)	30418	163.746	163.74(a)
14	Allyl Chloride	41	2.663	2.664	(0.554)	68010	16.0793	16.07(a)
15	Iodomethane	142	2.457	2.457	(0.511)	11563	41.3719	41.37
16	Acrylonitrile	53	3.057	3.057	(0.636)	18707	31.9476	31.94
17	Methylene Chloride	84	2.783	2.783	(0.579)	27992	17.0309	17.03
18	Methyl tert-butyl ether	73	3.068	3.072	(0.638)	61947	16.0433	16.04
19	Carbon Disulfide	76	2.510	2.510	(0.522)	117258	31.5275	31.52
20	trans-1,2-Dichloroethene	96	3.050	3.050	(0.634)	24463	17.6568	17.65

21 Vinyl Acetate	43	4.335	4.332 (0.902)	20184	23.1772	23.17
22 1,1-Dichloroethane	63	3.503	3.503 (0.729)	48612	17.6732	17.67

			QUANT SIG					CONCENTRATIONS ON-COLUMN	CONCENTRATIONS FINAL
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
	23	Chloroprene	53	3.601	3.601	(0.749)	38808	16.8242	16.82
	24	2-Butanone	43	4.257	4.257	(0.885)	25578	30.1307	30.13
	25	Methacrylonitrile	41	4.489	4.485	(0.934)	14528	15.5589	15.55(a)
	26	2,2-Dichloropropane	77	4.174	4.174	(0.868)	21996	11.4248	11.42
	27	cis-1,2-Dichloroethene	96	4.189	4.189	(0.871)	28427	17.1377	17.13
	28	Chloroform	83	4.564	4.564	(0.949)	48612	16.3015	16.30
	29	Bromochloromethane	128	4.463	4.463	(0.928)	13820	16.6381	16.63
$	30	Dibromofluoromethane	113	4.740	4.740	(0.986)	87331	53.5481	53.54
	31	1,1,1-Trichloroethane	97	4.736	4.737	(0.985)	37224	17.3849	17.38
	32	1,1-Dichloropropene	75	4.913	4.917	(0.886)	35894	16.5858	16.58
	33	1,2-Dichloroethane	62	5.171	5.168	(0.932)	40254	16.9615	16.96
	34	Carbon Tetrachloride	117	4.905	4.905	(0.884)	29682	16.6213	16.62
$	35	1,2-Dichloroethane-d4	65	5.089	5.089	(1.058)	107692	54.1628	54.16
*	36	1,4-Difluorobenzene	114	5.546	5.546	(1.000)	335077	50.0000	
	37	Benzene	78	5.134	5.130	(0.926)	108003	17.0935	17.09
	38	Trichloroethene	130	5.782	5.782	(1.043)	28283	16.9489	16.94
	39	Bromodichloromethane	83	6.273	6.274	(1.131)	30585	15.3839	15.38
	40	Methyl Methacrylate	41	5.820	5.820	(1.211)	10956	17.4219	17.42(a)
	42	1,2-Dichloropropane	63	6.004	6.004	(1.082)	29303	16.4486	16.44
	43	2-Nitropropane	43	6.502	6.502	(1.352)	5617	17.2290	17.22
	44	Dibromomethane	93	6.116	6.112	(1.103)	16710	16.2004	16.20
	45	4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	51892	30.1695	30.16
	46	cis-1,3-Dichloropropene	75	6.686	6.686	(1.205)	31479	13.9906	13.99
*	47	Chlorobenzene-d5	117	8.181	8.182	(1.000)	301774	50.0000	
$	48	Toluene-d8	98	6.918	6.918	(0.846)	338353	55.8318	55.83
	49	Ethyl Methacrylate	69	7.286	7.286	(1.314)	31765	14.6527	14.65(a)
	50	Toluene	91	6.978	6.978	(0.853)	112350	16.6767	16.67
	51	trans-1,3-Dichloropropene	75	7.192	7.192	(1.297)	24985	13.5872	13.58
	52	2-Hexanone	43	7.214	7.214	(0.882)	44533	34.4478	34.44
	53	1,1,2-Trichloroethane	83	7.353	7.349	(0.899)	20744	16.0613	16.06
	54	1,3-Dichloropropane	76	7.495	7.496	(0.916)	44461	16.0947	16.09
	55	Dibromochloromethane	129	7.687	7.687	(0.940)	21093	14.6247	14.62
	56	Tetrachloroethene	164	7.454	7.454	(0.911)	22243	16.9858	16.98
	57	1,2-Dibromoethane	107	7.780	7.781	(0.951)	23379	15.8609	15.86
	58	1-Chlorohexane	55	8.193	8.193	(1.477)	22733	16.0040	16.00
	59	Chlorobenzene	112	8.208	8.208	(1.003)	72010	17.0576	17.05
	60	1,1,1,2-Tetrachloroethane	131	8.279	8.279	(1.012)	23143	15.8710	15.87
	61	Ethylbenzene	106	8.305	8.305	(1.015)	35621	16.5567	16.55
	62	m,p-Xylenes	106	8.406	8.407	(1.027)	90429	33.8243	33.82
	63	o-Xylene	106	8.744	8.744	(1.069)	43997	17.0028	17.00
	64	Styrene	104	8.759	8.759	(1.071)	69300	16.5596	16.55
	66	Bromoform	173	8.916	8.916	(1.090)	11084	13.6130	13.61
	67	Isopropylbenzene	105	9.059	9.059	(1.107)	105741	17.2053	17.20
	68	1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	33598	15.3516	15.35
$	69	4-Bromofluorobenzene	95	9.190	9.190	(1.123)	123722	56.4291	56.42
*	70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	162829	50.0000	
	71	1,2,3-Trichloropropane	75	9.359	9.359	(0.920)	31114	14.9337	14.93
	72	trans-1,4-Dichloro-2-butene	53	9.377	9.374	(1.146)	6050	13.4179	13.41(a)
	73	n-Propylbenzene	91	9.411	9.407	(0.926)	121217	16.3760	16.37
	74	Bromobenzene	156	9.314	9.314	(0.916)	30277	16.5872	16.58
	75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	85051	17.4491	17.44
	76	2-Chlorotoluene	91	9.479	9.479	(0.932)	77976	16.2452	16.24

77	4-Chlorotoluene	91	9.572	9.572 (0.941)	89105	16.1198	16.11
78	tert-Butylbenzene	119	9.835	9.835 (0.967)	75360	16.9204	16.92

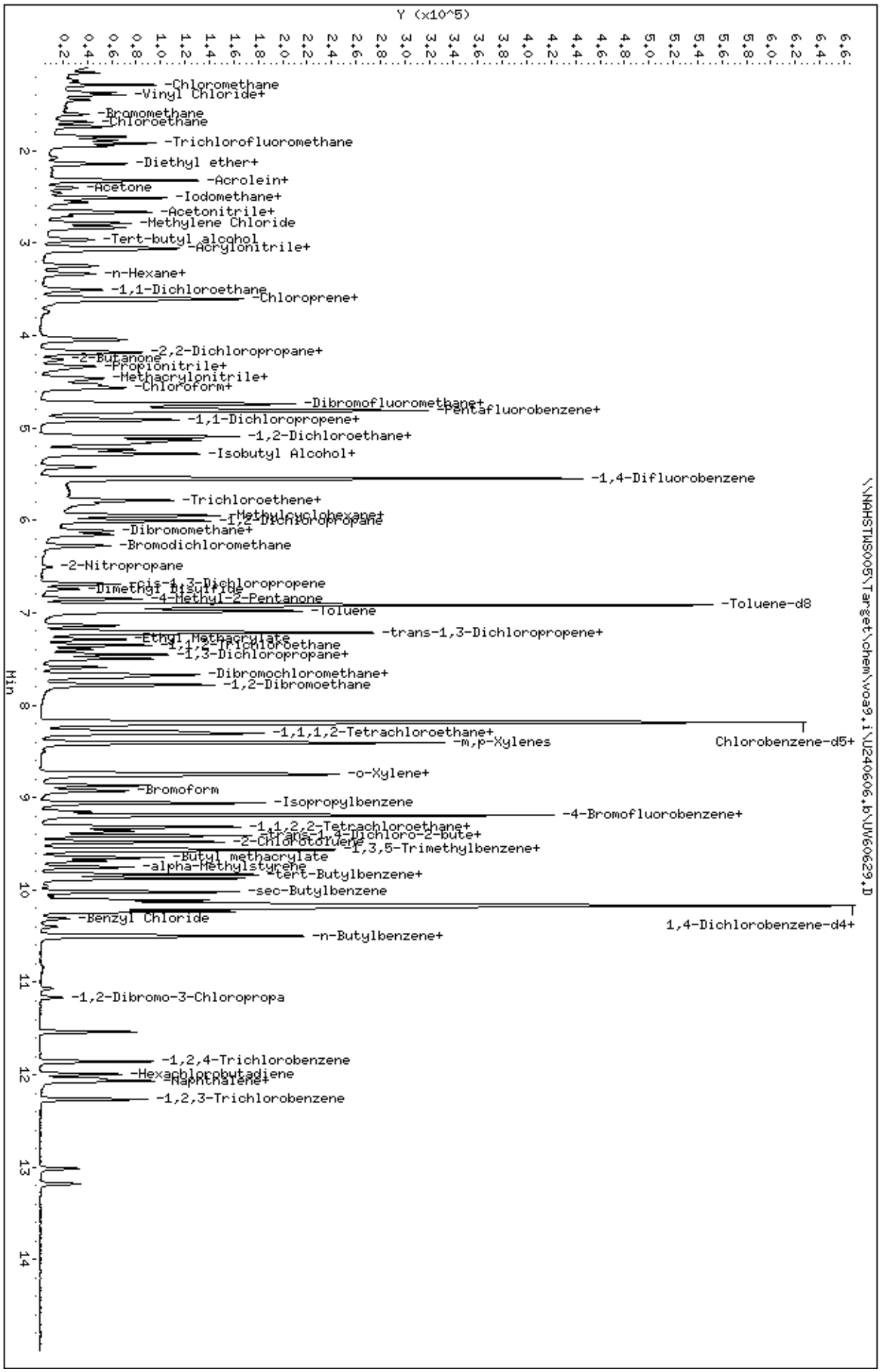
Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\UV60629.D Page 3
Report Date: 22-Jun-2024 12:42

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	85837	17.0264	17.02
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	99799	16.9489	16.94
82	p-Isopropyltoluene	119	10.142	10.142	(0.997)	83197	16.6342	16.63
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	52245	15.2551	15.25
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	55785	16.3412	16.34
86	Benzyl Chloride	91	10.311	10.307	(1.260)	13721	8.50835	8.50
87	n-Butylbenzene	91	10.491	10.491	(1.032)	69681	15.1429	15.14
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	51909	16.1436	16.14
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.166	(1.098)	3127	13.2169	13.21
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	27960	14.2644	14.26
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	12197	13.0867	13.08
92	Naphthalene	128	12.065	12.065	(1.187)	61871	13.4898	13.48
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	26334	14.0350	14.03
146	Methyl acetate	43	2.705	2.705	(0.563)	21562	12.0806	12.08
138	Freon TF	101	2.322	2.322	(0.483)	20810	18.7269	18.72
141	Cyclohexane	56	4.774	4.774	(0.993)	38405	19.0852	19.08
142	Tetrahydrofuran	42	4.534	4.534	(0.943)	8945	29.9936	29.99
147	Methylcyclohexane	55	5.944	5.944	(1.072)	61131	15.8590	15.85
135	1,4-Dioxane	88	6.165	6.161	(1.282)	6046	350.048	350.04
132	n-Butanol	56	5.820	5.820	(1.211)	14705	340.533	340.53(a)
136	n-Hexane	57	3.331	3.331	(0.693)	20680	14.9644	14.96
139	Diethyl ether	59	2.135	2.135	(0.444)	17851	15.9147	15.91
148	Tert-butyl alcohol	59	2.963	2.963	(0.616)	44807	328.875	328.87
149	Isopropyl alcohol	45	2.558	2.559	(0.532)	35372	322.484	322.48
156	Diisopropyl ether	45	3.612	3.612	(0.751)	82044	16.2173	16.21
162	Butyl acrylate	55	8.733	8.729	(1.067)	40205	13.4962	13.49
164	Dicyclopentadiene	66	10.198	10.195	(1.003)	116921	15.7709	15.77
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	80481	16.3269	16.32
167	Ethanol	45	2.075	2.079	(0.432)	7287	356.535	356.53
172	tert-Butyl formate	59	5.235	5.239	(1.089)	38115	28.7183	28.71
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.301)	136528	306.429	306.42
140	1,3-Butadiene	54	1.393	1.393	(0.290)	13660	18.4632	18.46
M 94	1,2-Dichloroethylene (total)	96				52890	31.4472	31.44
M 95	Xylenes (total)	106				134426	50.7194	50.71
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	21185	10.6858	10.68
131	Methyl Acrylate	55	4.362	4.362	(0.907)	26955	15.1910	15.19
189	n-Butyl acetate	43	7.668	7.586	(0.937)	12415	5.50078	5.50
134	Cyclohexanone	55	9.152	9.149	(0.900)	16868	233.134	233.13(a)
185	Isoprene	39	2.142	2.146	(0.446)	6514	17.1834	17.18
188	Isopropyl acetate	43	5.280	5.280	(0.952)	62854	13.4914	13.49
150	Allyl alcohol	57	3.331	3.331	(0.693)	20680	299.288	299.28
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	10632	13.9511	13.95
133	Ethyl Acrylate	55	5.944	5.944	(1.236)	61131	15.9938	15.99
163	Butyl methacrylate	41	9.647	9.647	(0.949)	28171	16.6702	16.67
203	2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	18547	12.1685	12.16
204	Tetrahydrothiophene	60	7.668	7.668	(0.937)	21761	15.2117	15.21(A)
205	sec-Butyl Ether	57	7.214	7.214	(0.882)	34567	9.35406	9.35(A)

QC Flag Legend

a - Target compound detected but, quantitated amount

Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\UW60629.D
Date : 07-JUN-2024 08:38
Client ID: HS24051959-14MS
Sample Info: HS24051959-14MS;HS24051959-14MS;3;;MS
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240606.b\UV60629.D
Inj Date : 07-JUN-2024 08:38
InstruID : VOA9.i
LabSampID : HS24051959-14MS

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\UV60630.D Page 1
Report Date: 22-Jun-2024 12:42

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240606.b\UV60630.D
Lab Smp Id: HS24051959-14MSD Client Smp ID: HS24051959-14MSD
Inj Date : 07-JUN-2024 09:00
Operator : TS Inst ID: VOA9.i
Smp Info : HS24051959-14MSD;HS24051959-14MSD;3;;MSD
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240606.b\8260C.m
Meth Date : 22-Jun-2024 12:42 VOA9.i Quant Type: ISTD
Cal Date : 05-JUN-2024 20:24 Cal File: W060506.D
Als bottle: 56 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1	Pentafluorobenzene	168	4.815	4.812	(1.000)	234368	50.0000	
2	Dichlorodifluoromethane	85	1.168	1.157	(0.243)	13241	18.7050	18.70
3	Chloromethane	50	1.299	1.288	(0.270)	55137	18.2484	18.24
4	Propionitrile	54	4.339	4.328	(0.901)	34870	154.547	154.54(a)
5	Vinyl Chloride	62	1.378	1.366	(0.286)	27634	17.3635	17.36
6	Bromomethane	94	1.610	1.595	(0.334)	12435	16.8924	16.89
7	Chloroethane	64	1.700	1.681	(0.353)	20415	17.6204	17.62
8	Trichlorofluoromethane	101	1.895	1.884	(0.394)	37155	18.1053	18.10
9	Acrolein	56	2.266	2.255	(0.471)	1406	15.3538	15.35(a)
10	Acetone	43	2.409	2.401	(0.500)	19793	28.8115	28.81
11	1,1-Dichloroethene	96	2.334	2.322	(0.485)	22883	17.0240	17.02
12	Isobutyl Alcohol	43	5.284	5.280	(1.097)	63243	253.721	253.72(a)
13	Acetonitrile	39	2.671	2.660	(0.555)	29644	154.165	154.16(a)
14	Allyl Chloride	41	2.671	2.664	(0.555)	67453	15.3991	15.39(a)
15	Iodomethane	142	2.469	2.457	(0.513)	12036	41.5730	41.57
16	Acrylonitrile	53	3.065	3.057	(0.636)	18571	30.5569	30.55
17	Methylene Chloride	84	2.795	2.783	(0.580)	27541	16.1072	16.10
18	Methyl tert-butyl ether	73	3.080	3.072	(0.640)	62510	15.6279	15.62
19	Carbon Disulfide	76	2.521	2.510	(0.524)	117160	30.4116	30.41
20	trans-1,2-Dichloroethene	96	3.057	3.050	(0.635)	23887	16.6490	16.64

21 Vinyl Acetate	43	4.339	4.332 (0.901)	20174	22.3802	22.38
22 1,1-Dichloroethane	63	3.514	3.503 (0.730)	48339	16.9533	16.95

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
23	Chloroprene	53	3.608	3.601	(0.749)	40169	16.8119	16.81
24	2-Butanone	43	4.264	4.257	(0.886)	25592	29.0783	29.07
25	Methacrylonitrile	41	4.493	4.485	(0.933)	14781	15.3085	15.30(a)
26	2,2-Dichloropropane	77	4.182	4.174	(0.868)	22049	11.0562	11.05
27	cis-1,2-Dichloroethene	96	4.197	4.189	(0.872)	28248	16.4478	16.44
28	Chloroform	83	4.572	4.564	(0.949)	47507	15.3800	15.37
29	Bromochloromethane	128	4.467	4.463	(0.928)	13985	16.2425	16.24
$ 30	Dibromofluoromethane	113	4.748	4.740	(0.986)	87587	51.8476	51.84
31	1,1,1-Trichloroethane	97	4.740	4.737	(0.984)	37038	16.6997	16.69
32	1,1-Dichloropropene	75	4.920	4.917	(0.887)	34863	15.8256	15.82
33	1,2-Dichloroethane	62	5.175	5.168	(0.932)	39514	16.3330	16.33
34	Carbon Tetrachloride	117	4.909	4.905	(0.885)	29535	16.2476	16.24
$ 35	1,2-Dichloroethane-d4	65	5.096	5.089	(1.058)	109063	52.9552	52.95
* 36	1,4-Difluorobenzene	114	5.550	5.546	(1.000)	341087	50.0000	
37	Benzene	78	5.138	5.130	(0.926)	107285	16.6837	16.68
38	Trichloroethene	130	5.786	5.782	(1.043)	27089	15.9474	15.94
39	Bromodichloromethane	83	6.277	6.274	(1.131)	29431	14.5426	14.54
40	Methyl Methacrylate	41	5.824	5.820	(1.209)	11462	17.5732	17.57(a)
42	1,2-Dichloropropane	63	6.007	6.004	(1.082)	29732	16.3951	16.39
43	2-Nitropropane	43	6.506	6.502	(1.351)	6724	19.9111	19.91
44	Dibromomethane	93	6.116	6.112	(1.102)	16878	16.0735	16.07
45	4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	49780	28.7643	28.76
46	cis-1,3-Dichloropropene	75	6.690	6.686	(1.205)	30264	13.3501	13.35
* 47	Chlorobenzene-d5	117	8.182	8.182	(1.000)	305056	50.0000	
$ 48	Toluene-d8	98	6.918	6.918	(0.846)	340775	55.6264	55.62
49	Ethyl Methacrylate	69	7.289	7.286	(1.313)	31876	14.4448	14.44(a)
50	Toluene	91	6.978	6.978	(0.853)	111971	16.4416	16.44
51	trans-1,3-Dichloropropene	75	7.196	7.192	(1.296)	24471	13.1724	13.17
52	2-Hexanone	43	7.214	7.214	(0.882)	43954	33.6000	33.60
53	1,1,2-Trichloroethane	83	7.353	7.349	(0.899)	21257	16.2844	16.28
54	1,3-Dichloropropane	76	7.496	7.496	(0.916)	44415	15.9045	15.90
55	Dibromochloromethane	129	7.691	7.687	(0.940)	21222	14.5648	14.56
56	Tetrachloroethene	164	7.454	7.454	(0.911)	21603	16.3196	16.31
57	1,2-Dibromoethane	107	7.784	7.781	(0.951)	22759	15.2957	15.29
58	1-Chlorohexane	55	8.193	8.193	(1.476)	22863	15.8104	15.81
59	Chlorobenzene	112	8.208	8.208	(1.003)	71008	16.6359	16.63
60	1,1,1,2-Tetrachloroethane	131	8.283	8.279	(1.012)	22639	15.3584	15.35
61	Ethylbenzene	106	8.305	8.305	(1.015)	35581	16.3602	16.36
62	m,p-Xylenes	106	8.407	8.407	(1.027)	90358	33.4341	33.43
63	o-Xylene	106	8.744	8.744	(1.069)	43643	16.6846	16.68
64	Styrene	104	8.759	8.759	(1.071)	69223	16.3632	16.36
66	Bromoform	173	8.916	8.916	(1.090)	11043	13.4674	13.46
67	Isopropylbenzene	105	9.059	9.059	(1.107)	107019	17.2259	17.22
68	1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	33355	15.0630	15.06
$ 69	4-Bromofluorobenzene	95	9.190	9.190	(1.123)	124762	56.2912	56.29
* 70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	164694	50.0000	
71	1,2,3-Trichloropropane	75	9.359	9.359	(0.920)	30671	14.5866	14.58
72	trans-1,4-Dichloro-2-butene	53	9.377	9.374	(1.146)	5924	13.0187	13.01(a)
73	n-Propylbenzene	91	9.411	9.407	(0.926)	120321	16.0709	16.07
74	Bromobenzene	156	9.314	9.314	(0.916)	29178	15.8183	15.81
75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	82735	16.7817	16.78
76	2-Chlorotoluene	91	9.482	9.479	(0.933)	78941	16.2600	16.26

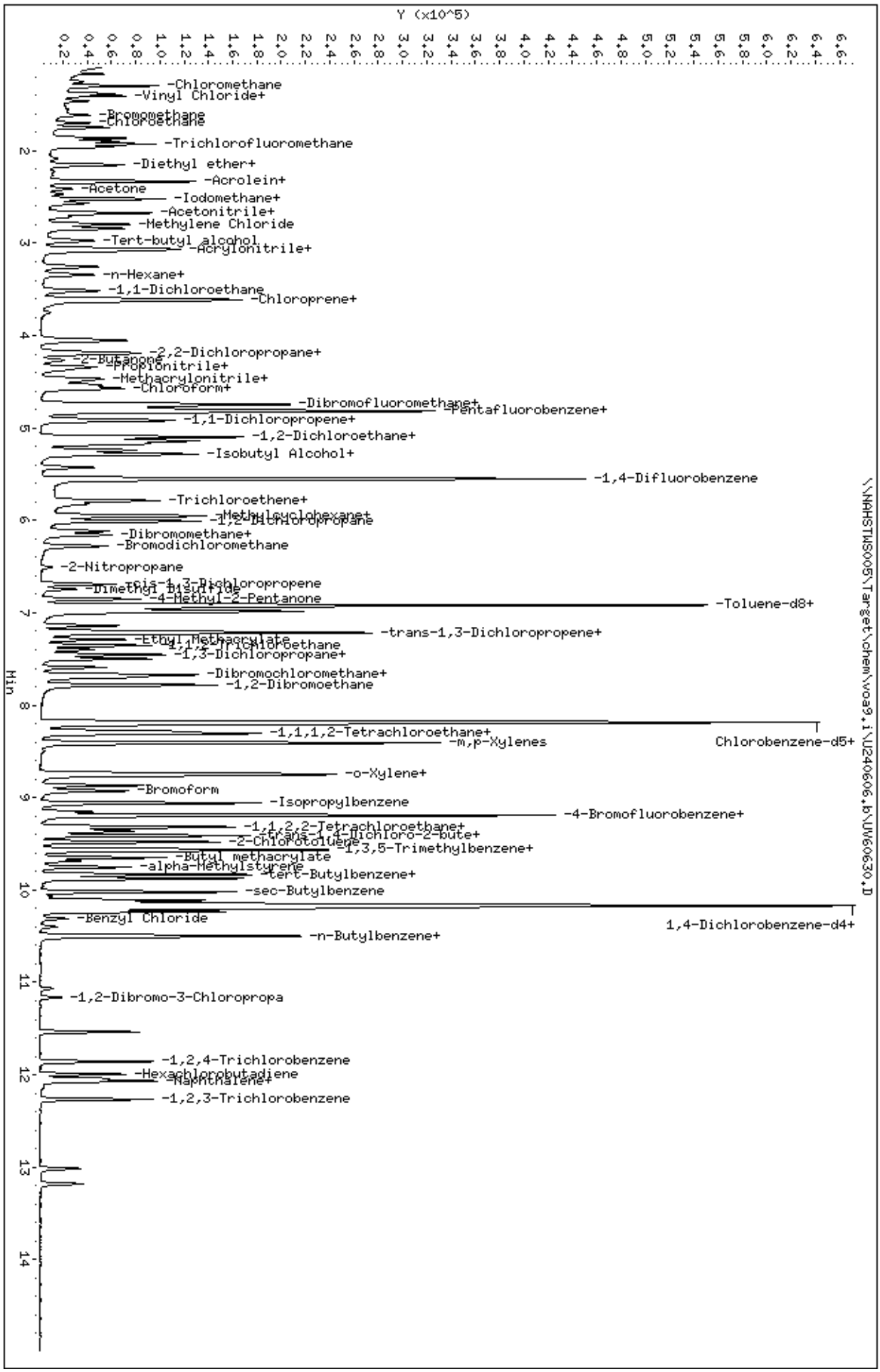
77	4-Chlorotoluene	91	9.572	9.572 (0.941)	88630	15.8523	15.85
78	tert-Butylbenzene	119	9.835	9.835 (0.967)	74848	16.6152	16.61

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	82440	16.1674	16.16
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	100266	16.8354	16.83
82	p-Isopropyltoluene	119	10.146	10.142	(0.998)	82071	16.2232	16.22
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	51641	14.9079	14.90
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	55141	15.9662	15.96
86	Benzyl Chloride	91	10.311	10.307	(1.260)	13574	8.35516	8.35
87	n-Butylbenzene	91	10.491	10.491	(1.032)	69278	14.9141	14.91
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	52452	16.1277	16.12
89	1,2-Dibromo-3-Chloropropane	155	11.166	11.166	(1.098)	3271	13.6146	13.61
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	28435	14.3328	14.33
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	12585	13.3501	13.35
92	Naphthalene	128	12.065	12.065	(1.187)	65740	14.0755	14.07
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	27027	14.2412	14.24
146	Methyl acetate	43	2.716	2.705	(0.564)	19839	10.5608	10.56
138	Freon TF	101	2.334	2.322	(0.485)	20329	17.6613	17.66
141	Cyclohexane	56	4.782	4.774	(0.993)	38348	18.4066	18.40
142	Tetrahydrofuran	42	4.542	4.534	(0.943)	9841	31.9163	31.91
147	Methylcyclohexane	55	5.947	5.944	(1.072)	59402	15.1389	15.13
135	1,4-Dioxane	88	6.165	6.161	(1.280)	5917	330.738	330.73
132	n-Butanol	56	5.824	5.820	(1.209)	14943	335.133	335.13(a)
136	n-Hexane	57	3.342	3.331	(0.694)	20501	14.3494	14.34
139	Diethyl ether	59	2.146	2.135	(0.446)	18283	15.7352	15.73
148	Tert-butyl alcohol	59	2.971	2.963	(0.617)	44900	318.445	318.44
149	Isopropyl alcohol	45	2.566	2.559	(0.533)	36863	324.408	324.40
156	Diisopropyl ether	45	3.619	3.612	(0.752)	83225	15.8867	15.88
162	Butyl acrylate	55	8.733	8.729	(1.067)	39930	13.2597	13.25
164	Dicyclopentadiene	66	10.198	10.195	(1.003)	115399	15.4125	15.41
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	78745	15.8229	15.82
167	Ethanol	45	2.086	2.079	(0.433)	6739	317.134	317.13
172	tert-Butyl formate	59	5.239	5.239	(1.088)	40425	29.3923	29.39
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	135687	300.511	300.51
140	1,3-Butadiene	54	1.404	1.393	(0.292)	13699	17.8912	17.89
M 94	1,2-Dichloroethylene (total)	96				52135	29.9261	29.92
M 95	Xylenes (total)	106				134001	49.6681	49.66
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	20253	10.1000	10.10
131	Methyl Acrylate	55	4.369	4.362	(0.907)	26894	14.6599	14.65
189	n-Butyl acetate	43	7.668	7.586	(0.937)	10748	4.71094	4.71(a)
134	Cyclohexanone	55	9.152	9.149	(0.900)	17499	239.523	239.52(a)
185	Isoprene	39	2.157	2.146	(0.448)	6298	16.0390	16.03
188	Isopropyl acetate	43	5.284	5.280	(0.952)	63243	13.3399	13.33
150	Allyl alcohol	57	3.342	3.331	(0.694)	20501	286.988	286.98
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	10734	13.9354	13.93
133	Ethyl Acrylate	55	5.947	5.944	(1.235)	59402	15.0040	15.00
163	Butyl methacrylate	41	9.647	9.647	(0.949)	28057	16.4051	16.40
203	2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	20738	13.3096	13.30
204	Tetrahydrothiophene	60	7.672	7.668	(0.938)	21218	14.6726	14.67(A)
205	sec-Butyl Ether	57	7.214	7.214	(0.882)	32886	8.80343	8.80(A)

QC Flag Legend

a - Target compound detected but, quantitated amount

Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\UV60630.D
Date : 07-JUN-2024 09:00
Client ID: HS24051959-14HSD
Sample Info: HS24051959-14MSD;HS24051959-14MSD;3;;MSD
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240606.b\UV60630.D
Inj Date : 07-JUN-2024 09:00
InstruID : VOA9.i
LabSampID : HS24051959-14MSD

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\UV60640.D Page 1
Report Date: 22-Jun-2024 12:42

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240606.b\UV60640.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 07-JUN-2024 09:21
Operator : TS Inst ID: VOA9.i
Smp Info : VSTD050;VSTD050;2;;CCV
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240606.b\8260C.m
Meth Date : 22-Jun-2024 12:42 VOA9.i Quant Type: ISTD
Cal Date : 05-JUN-2024 20:24 Cal File: W060506.D
Als bottle: 57 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.812	4.812	(1.000)	241598	50.0000	
2	Dichlorodifluoromethane	85	1.160	1.160	(0.241)	37171	50.0000	49.56
3	Chloromethane	50	1.292	1.292	(0.268)	151864	50.0000	54.74
4	Propionitrile	54	4.332	4.332	(0.900)	103197	500.000	440.97
5	Vinyl Chloride	62	1.374	1.374	(0.286)	78830	50.0000	48.04
6	Bromomethane	94	1.606	1.606	(0.334)	34189	50.0000	45.98
7	Chloroethane	64	1.693	1.693	(0.352)	58936	50.0000	49.67
8	Trichlorofluoromethane	101	1.888	1.888	(0.392)	104900	50.0000	49.58
9	Acrolein	56	2.259	2.259	(0.469)	8784	100.000	111.72
10	Acetone	43	2.405	2.405	(0.500)	55224	100.000	85.30
11	1,1-Dichloroethene	96	2.326	2.326	(0.484)	67099	50.0000	48.42
12	Isobutyl Alcohol	43	5.280	5.280	(1.097)	223715	1000.00	870.65
13	Acetonitrile	39	2.664	2.664	(0.554)	88596	500.000	443.60
14	Allyl Chloride	41	2.667	2.667	(0.554)	198871	50.0000	43.90
15	Iodomethane	142	2.461	2.461	(0.512)	43532	100.000	128.43
16	Acrylonitrile	53	3.061	3.061	(0.636)	53416	100.000	87.90
17	Methylene Chloride	84	2.787	2.787	(0.579)	83056	50.0000	49.79
18	Methyl tert-butyl ether	73	3.076	3.076	(0.639)	182790	50.0000	44.42
19	Carbon Disulfide	76	2.514	2.514	(0.522)	358858	100.000	90.36
20	trans-1,2-Dichloroethene	96	3.053	3.053	(0.635)	70413	50.0000	47.47

21 Vinyl Acetate	43	4.335	4.335 (0.901)	82607	100.000	87.55
22 1,1-Dichloroethane	63	3.507	3.507 (0.729)	142636	50.0000	49.12

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\UV60640.D Page 2
Report Date: 22-Jun-2024 12:42

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	3.604	3.604	(0.749)	117988	50.0000	47.90
	24 2-Butanone	43	4.260	4.260	(0.885)	79266	100.000	88.90
	25 Methacrylonitrile	41	4.489	4.489	(0.933)	43864	50.0000	41.30(a)
	26 2,2-Dichloropropane	77	4.178	4.178	(0.868)	68464	50.0000	33.30
	27 cis-1,2-Dichloroethene	96	4.189	4.189	(0.871)	85822	50.0000	48.14
	28 Chloroform	83	4.568	4.568	(0.949)	144419	50.0000	45.35
	29 Bromochloromethane	128	4.463	4.463	(0.928)	43020	50.0000	49.49
$	30 Dibromofluoromethane	113	4.744	4.744	(0.986)	92011	50.0000	52.83
	31 1,1,1-Trichloroethane	97	4.737	4.737	(0.984)	113076	50.0000	49.45
	32 1,1-Dichloropropene	75	4.917	4.917	(0.886)	105310	50.0000	46.81
	33 1,2-Dichloroethane	62	5.171	5.171	(0.932)	117410	50.0000	48.77
	34 Carbon Tetrachloride	117	4.909	4.909	(0.885)	91484	50.0000	49.28
$	35 1,2-Dichloroethane-d4	65	5.093	5.093	(1.058)	111033	50.0000	52.29
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	348288	50.0000	
	37 Benzene	78	5.134	5.134	(0.925)	322798	50.0000	48.91
	38 Trichloroethene	130	5.786	5.786	(1.043)	87251	50.0000	50.30
	39 Bromodichloromethane	83	6.274	6.274	(1.130)	97353	50.0000	47.10
	40 Methyl Methacrylate	41	5.820	5.820	(1.210)	31505	50.0000	43.04
	41 2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	36115	100.000	85.89
	42 1,2-Dichloropropane	63	6.004	6.004	(1.082)	90160	50.0000	48.82
	43 2-Nitropropane	43	6.506	6.506	(1.352)	15845	50.0000	45.51
	44 Dibromomethane	93	6.116	6.116	(1.102)	51912	50.0000	48.78
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	166883	100.000	87.58
	46 cis-1,3-Dichloropropene	75	6.686	6.686	(1.205)	113110	50.0000	42.32
*	47 Chlorobenzene-d5	117	8.182	8.182	(1.000)	314619	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.846)	354064	50.0000	56.03
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	96981	50.0000	43.03
	50 Toluene	91	6.978	6.978	(0.853)	334122	50.0000	47.57
	51 trans-1,3-Dichloropropene	75	7.192	7.192	(1.296)	90521	50.0000	40.84
	52 2-Hexanone	43	7.214	7.214	(0.882)	113716	100.000	86.46
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	64827	50.0000	48.56
	54 1,3-Dichloropropane	76	7.496	7.496	(0.916)	140388	50.0000	48.84
	55 Dibromochloromethane	129	7.691	7.691	(0.940)	74519	50.0000	45.02
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	65226	50.0000	47.77
	57 1,2-Dibromoethane	107	7.781	7.781	(0.951)	74803	50.0000	47.47
	58 1-Chlorohexane	55	8.193	8.193	(1.476)	62824	50.0000	42.77
	59 Chlorobenzene	112	8.208	8.208	(1.003)	216549	50.0000	49.46
	60 1,1,1,2-Tetrachloroethane	131	8.279	8.279	(1.012)	74217	50.0000	48.81
	61 Ethylbenzene	106	8.305	8.305	(1.015)	108543	50.0000	48.39
	62 m,p-Xylenes	106	8.407	8.407	(1.027)	275753	100.000	98.93
	63 o-Xylene	106	8.744	8.744	(1.069)	135403	50.0000	50.19
	64 Styrene	104	8.759	8.759	(1.071)	223946	50.0000	51.32
	66 Bromoform	173	8.916	8.916	(1.090)	42520	50.0000	40.65
	67 Isopropylbenzene	105	9.059	9.059	(1.107)	337140	50.0000	52.61
	68 1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	97631	50.0000	43.15
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	132245	50.0000	57.85
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	170197	50.0000	
	71 1,2,3-Trichloropropane	75	9.359	9.359	(0.920)	100523	50.0000	43.50
	72 trans-1,4-Dichloro-2-butene	53	9.374	9.374	(1.146)	18277	50.0000	37.57
	73 n-Propylbenzene	91	9.407	9.407	(0.925)	394011	50.0000	50.92
	74 Bromobenzene	156	9.314	9.314	(0.916)	93029	50.0000	48.17
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	269460	50.0000	52.88

76	2-Chlorotoluene	91	9.479	9.479 (0.932)	240378	50.0000	47.91
77	4-Chlorotoluene	91	9.572	9.572 (0.941)	274837	50.0000	47.56

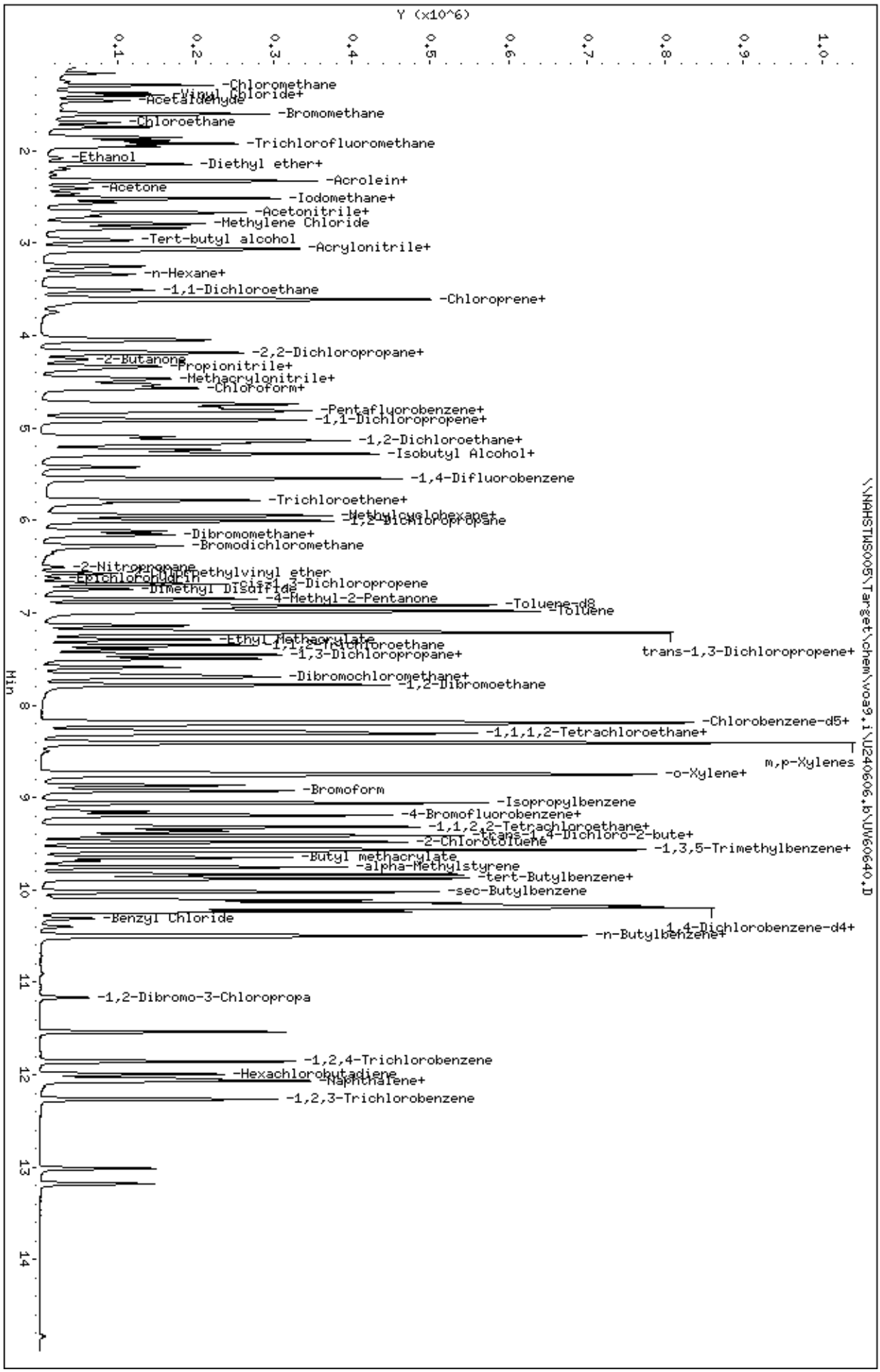
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	237979	50.0000	51.11
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	271245	50.0000	51.47
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	320881	50.0000	52.13
82	p-Isopropyltoluene	119	10.142	10.142	(0.997)	271420	50.0000	51.91
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	159978	50.0000	44.68
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	169177	50.0000	47.69
86	Benzyl Chloride	91	10.307	10.307	(1.260)	44474	50.0000	23.43
87	n-Butylbenzene	91	10.491	10.491	(1.032)	229221	50.0000	43.96
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	163030	50.0000	48.54
89	1,2-Dibromo-3-Chloropropane	155	11.166	11.166	(1.098)	11954	50.0000	43.38
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	98513	50.0000	43.92
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	43052	50.0000	44.19
92	Naphthalene	128	12.065	12.065	(1.187)	234220	50.0000	43.89
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	91365	50.0000	46.58
146	Methyl acetate	43	2.709	2.709	(0.563)	76834	50.0000	43.87
138	Freon TF	101	2.330	2.330	(0.484)	58556	50.0000	49.34
141	Cyclohexane	56	4.778	4.778	(0.993)	105702	50.0000	48.80
142	Tetrahydrofuran	42	4.538	4.538	(0.943)	27104	100.000	86.87
147	Methylcyclohexane	55	5.944	5.944	(1.071)	180291	50.0000	44.99
135	1,4-Dioxane	88	6.165	6.165	(1.281)	16975	1000.00	920.19
132	n-Butanol	56	5.820	5.820	(1.210)	43998	1000.00	853.73
136	n-Hexane	57	3.335	3.335	(0.693)	57062	50.0000	37.65
139	Diethyl ether	59	2.139	2.139	(0.445)	53727	50.0000	44.99
148	Tert-butyl alcohol	59	2.967	2.967	(0.617)	127432	1000.00	861.36
149	Isopropyl alcohol	45	2.562	2.562	(0.533)	104228	1000.00	876.64
156	Diisopropyl ether	45	3.616	3.616	(0.751)	251580	50.0000	46.12
162	Butyl acrylate	55	8.729	8.729	(1.067)	128026	50.0000	41.22
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	366968	50.0000	45.43
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	245487	50.0000	45.93
167	Ethanol	45	2.079	2.079	(0.432)	19272	1000.00	899.39
172	tert-Butyl formate	59	5.239	5.239	(1.089)	123155	100.000	85.79
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	423675	1000.00	802.85
140	1,3-Butadiene	54	1.396	1.396	(0.290)	38887	50.0000	48.39
182	Epichlorohydrin	57	6.626	6.626	(1.194)	15661	200.000	165.96
M 94	1,2-Dichloroethylene (total)	96				156235	100.000	(a)
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	105711	50.0000	51.01
131	Methyl Acrylate	55	4.365	4.365	(0.907)	81708	50.0000	41.74
134	Cyclohexanone	55	9.149	9.149	(0.900)	52602	1000.00	717.69
185	Isoprene	39	2.150	2.150	(0.447)	19460	50.0000	48.07
188	Isopropyl acetate	43	5.280	5.280	(0.951)	225101	50.0000	45.31
150	Allyl alcohol	57	3.335	3.335	(0.693)	57062	1000.00	753.03
194	Acetaldehyde	44	1.456	1.456	(0.303)	97521	200.000	269.39
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	42336	50.0000	45.58
133	Ethyl Acrylate	55	5.944	5.944	(1.235)	180291	50.0000	44.17
163	Butyl methacrylate	41	9.647	9.647	(0.949)	84298	50.0000	48.01
159	Propylene oxide	43	2.195	2.195	(0.456)	10912	100.000	80.51
203	2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	79277	50.0000	43.99
204	Tetrahydrothiophene	60	7.668	7.668	(0.937)	65993	50.0000	44.24(A)
205	sec-Butyl Ether	57	7.214	7.214	(0.882)	92562	50.0000	24.02(A)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

QC Flag Legend

A - Target compound detected but, quantitated amount
exceeded maximum amount.



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240606.b\UV60640.D
Date : 07-JUN-2024 09:21
Client ID: VSTD050
Sample Info: VSTD050;VSTD050;2;;CCV
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240606.b\UV60640.D
Inj Date : 07-JUN-2024 09:21
InstruID : VOA9.i
LabSampID : VSTD050

NO MANUAL INTEGRATIONS

right solutions.
right partner.

RawData

<textMethods>

Workorder

HS24051959

Client

Bhate Environmental Associates, Inc.

Project

LHAAP-58

07/03/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Data File: \\nahstws005\Target\chem\voa9.i\U240608.b\C060801.D Page 1
Report Date: 08-Jun-2024 15:49

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240608.b\C060801.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 08-JUN-2024 15:33
Operator : TS Inst ID: VOA9.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240608.b\8260C.m
Meth Date : 08-Jun-2024 13:20 Quant Type: ISTD
Cal Date : 05-JUN-2024 19:20 Cal File: W060503.D
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	
*	1 Pentafluorobenzene	168	4.812	4.815	(1.000)	282257	50.0000		
	2 Dichlorodifluoromethane	85	1.040	1.164	(0.216)	653	1.53066		
	3 Chloromethane	50	1.010	1.295	(0.210)	17424	2.14608		
	5 Vinyl Chloride	62	1.022	1.378	(0.212)	10940	5.70776		
	6 Bromomethane	94	1.618	1.610	(0.336)	895	0.48609		
	10 Acetone	43	2.405	2.409	(0.500)	4522	1.98990		
	15 Iodomethane	142	2.476	2.465	(0.515)	930	0.72815		
	24 2-Butanone	43	4.261	4.260	(0.885)	4005	3.11033		
$	30 Dibromofluoromethane	113	4.744	4.744	(0.986)	102782	50.5196		(R)
	33 1,2-Dichloroethane	62	5.550	5.171	(1.000)	14137	4.30629		
	34 Carbon Tetrachloride	117	4.812	4.909	(0.867)	25084	11.2608		
$	35 1,2-Dichloroethane-d4	65	5.093	5.093	(1.058)	126779	51.1131		(R)
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	417971	50.0000		
	42 1,2-Dichloropropane	63	5.550	6.007	(1.000)	87209	39.3430		
	45 4-Methyl-2-Pentanone	43	6.918	6.851	(0.846)	2083	3.53119		
*	47 Chlorobenzene-d5	117	8.182	8.182	(1.000)	368894	50.0000		
$	48 Toluene-d8	98	6.918	6.918	(0.846)	405631	54.7549		(R)
	49 Ethyl Methacrylate	69	6.922	7.286	(1.247)	1459	0.53954		
	58 1-Chlorohexane	55	8.182	8.193	(1.474)	3939	2.10814		
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	145150	54.1568		(R)

*	70	1,4-Dichlorobenzene-d4	152	10.168	10.168 (1.000)	186839	50.0000
	71	1,2,3-Trichloropropane	75	9.190	9.359 (0.904)	71856	28.7701

Data File: \\nahstws005\Target\chem\voa9.i\U240608.b\C060801.D Page 2
Report Date: 08-Jun-2024 15:49

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
86 Benzyl Chloride	91	10.311	10.307	(1.260)	3980	3.01228	
92 Naphthalene	128	12.073	12.065	(1.187)	1267	2.09813	
141 Cyclohexane	56	4.812	4.781	(1.000)	5331	2.34327	
135 1,4-Dioxane	88	6.165	6.165	(1.281)	883	41.1047	
164 Dicyclopentadiene	66	10.168	10.198	(1.000)	3380	1.33123	
203 2-Ethylhexyl Acrylate	55	11.975	12.035	(1.178)	2520	2.48024	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240608.b\C060802.D Page 1
Report Date: 21-Jun-2024 10:56

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240608.b\C060802.D
Lab Smp Id: VSTD00.25 Client Smp ID: VSTD00.25
Inj Date : 08-JUN-2024 15:54
Operator : TS Inst ID: VOA9.i
Smp Info : VSTD00.25;VSTD00.25;1;1
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240608.b\8260C.m
Meth Date : 21-Jun-2024 10:56 VOA9.i Quant Type: ISTD
Cal Date : 08-JUN-2024 18:03 Cal File: C060808.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

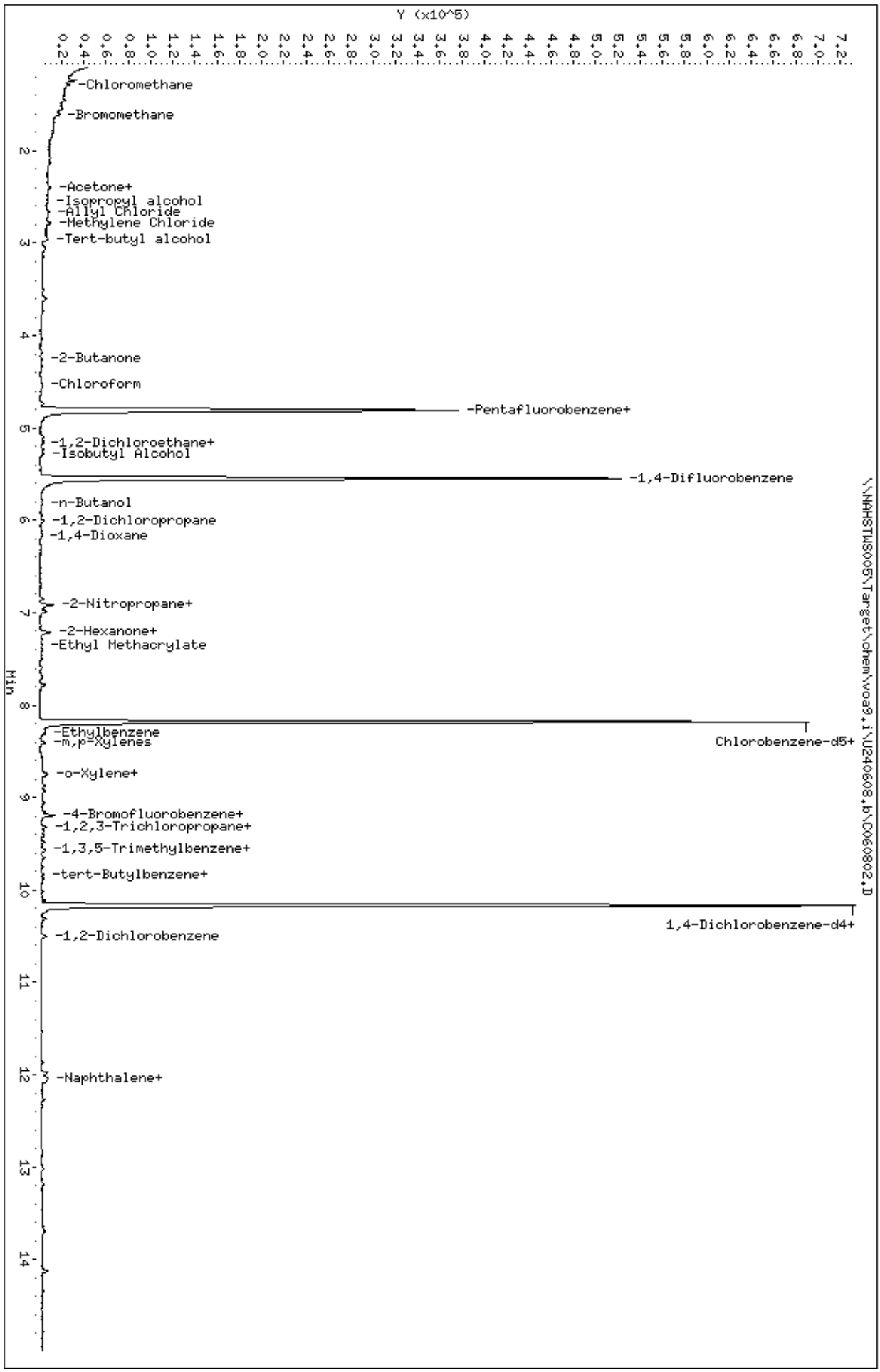
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Pentafluorobenzene	168	4.808	4.808	(1.000)	280581	50.0000	
	2 Dichlorodifluoromethane	85	0.992	0.992	(0.206)	11400	0.25000	6.12(Q)
	5 Vinyl Chloride	62	1.022	1.022	(0.213)	5436	0.25000	1.66(Q)
	14 Allyl Chloride	41	2.660	2.660	(0.553)	1367	0.25000	(aQ)
	15 Iodomethane	142	2.457	2.457	(0.511)	916	0.50000	1.83(TQ)
$	30 Dibromofluoromethane	113	4.736	4.736	(0.985)	1534	0.25000	(a)
	34 Carbon Tetrachloride	117	4.808	4.808	(0.867)	24907	0.25000	11.05(Q)
$	35 1,2-Dichloroethane-d4	65	5.089	5.089	(1.058)	2311	50.0000	(Ta)
*	36 1,4-Difluorobenzene	114	5.546	5.546	(1.000)	409517	50.0000	
	43 2-Nitropropane	43	6.847	6.847	(1.424)	1718	0.25000	4.49(aQ)
	45 4-Methyl-2-Pentanone	43	6.847	6.847	(0.837)	1718	0.50000	0.72(aQ)
*	47 Chlorobenzene-d5	117	8.182	8.182	(1.000)	365917	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.846)	7143	50.0000	0.51(a)
	49 Ethyl Methacrylate	69	7.286	7.286	(1.314)	1015	0.25000	0.54(a)
	58 1-Chlorohexane	55	8.182	8.182	(1.475)	3812	0.25000	0.38(aQ)
	61 Ethylbenzene	106	8.305	8.305	(1.015)	647	0.25000	0.22(aQ)
	62 m,p-Xylenes	106	8.406	8.406	(1.027)	1450	0.50000	0.41(a)
	63 o-Xylene	106	8.748	8.748	(1.069)	731	0.25000	0.21(a)
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	3562	50.0000	0.52(a)
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	188663	50.0000	

73 n-Propylbenzene	91	9.407	9.407 (0.925)	1854	0.25000	0.20(a)
75 1,3,5-Trimethylbenzene	105	9.561	9.561 (0.940)	1342	0.25000	0.68(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	937	0.25000	0.17(Ta)
79	1,2,4-Trimethylbenzene	105	9.872	9.872	(0.971)	2075	0.25000	0.32(a)
92	Naphthalene	128	12.069	12.069	(1.187)	2160	0.25000	0.51(a)
132	n-Butanol	56	5.820	5.820	(1.211)	807	5.00000	10.95(aQ)
149	Isopropyl alcohol	45	2.547	2.547	(0.530)	1507	5.00000	(Ta)
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	1713	0.25000	0.76(a)
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.301)	4644	5.00000	8.61
134	Cyclohexanone	55	9.152	9.152	(0.900)	1045	5.00000	20.86(TaQ)
203	2-Ethylhexyl Acrylate	55	12.046	12.046	(1.185)	2611	0.25000	1.88(a)
205	sec-Butyl Ether	57	7.211	7.211	(0.881)	983	0.25000	0.20(aA)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240608.b\C060802.D
Date : 08-JUN-2024 15:54
Client ID: VSTD00.25
Sample Info: VSTD00.25;VSTD00.25;1;1
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

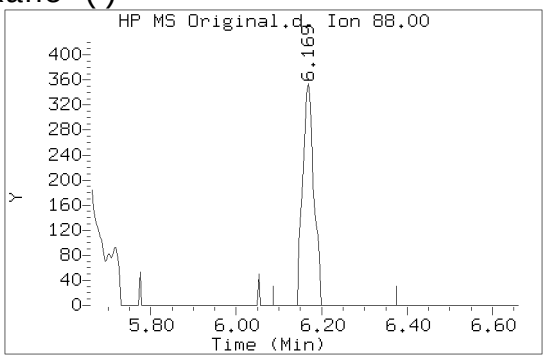
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InstruID : VOA9.i
LabSampID : VSTD00.25

1,4-Dioxane ()

Reason Code:

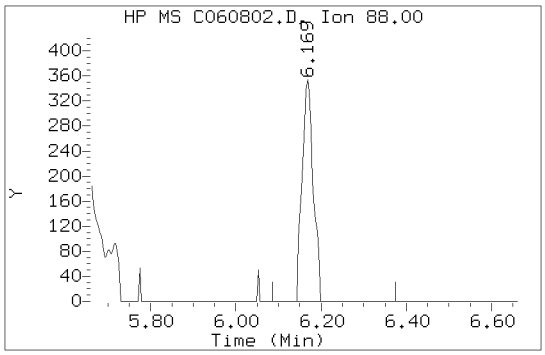
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21-Jun-2024
10:56
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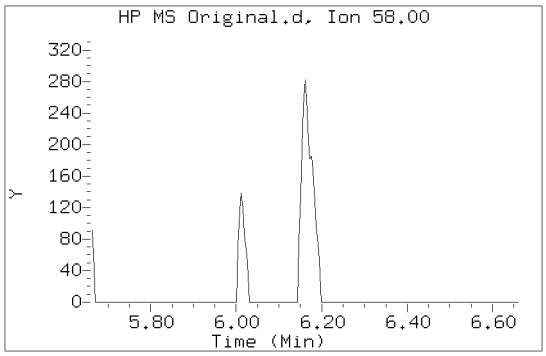
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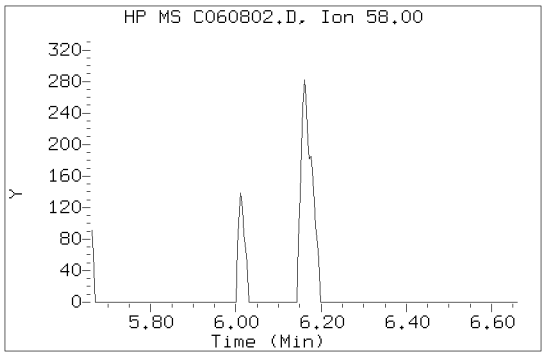
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AFTER

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21-Jun-2024
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RUCHA
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Data File: \\NAHSTWS005\Target\chem\voa9.i\U240608.b\C060803.D Page 1
Report Date: 21-Jun-2024 10:56

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240608.b\C060803.D
Lab Smp Id: VSTD00.5 Client Smp ID: VSTD00.5
Inj Date : 08-JUN-2024 16:16
Operator : TS Inst ID: VOA9.i
Smp Info : VSTD00.5;VSTD00.5;1;2
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240608.b\8260C.m
Meth Date : 21-Jun-2024 10:56 VOA9.i Quant Type: ISTD
Cal Date : 08-JUN-2024 15:54 Cal File: C060802.D
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Pentafluorobenzene	168	4.811	4.811	(1.000)	277173	50.0000	
	3 Chloromethane	50	1.291	1.291	(0.268)	5310	0.50000	0.39(a)
	4 Propionitrile	54	4.335	4.335	(0.901)	2985	5.00000	3.33(a)
	7 Chloroethane	64	1.693	1.693	(0.352)	1314	0.50000	0.17(aM)
	8 Trichlorofluoromethane	101	1.884	1.884	(0.392)	1150	0.50000	0.42(a)
	9 Acrolein	56	2.259	2.259	(0.469)	372	1.00000	1.91(aQM)
	10 Acetone	43	2.397	2.397	(0.498)	4473	1.00000	1.53
	11 1,1-Dichloroethene	96	2.322	2.322	(0.483)	1023	0.50000	0.59(QM)
	12 Isobutyl Alcohol	43	5.280	5.280	(1.097)	4715	10.0000	1.06(aQ)
	13 Acetonitrile	39	2.663	2.663	(0.554)	2171	5.00000	7.11(a)
	14 Allyl Chloride	41	2.663	2.663	(0.554)	5612	0.50000	0.57(a)
	15 Iodomethane	142	2.457	2.457	(0.511)	1192	1.00000	2.38(TQ)
	18 Methyl tert-butyl ether	73	3.072	3.072	(0.639)	5205	0.50000	0.38(a)
	19 Carbon Disulfide	76	2.510	2.510	(0.522)	5914	1.00000	1.16
	23 Chloroprene	53	3.601	3.601	(0.748)	1808	0.50000	0.59(a)
	24 2-Butanone	43	4.257	4.257	(0.885)	3411	1.00000	0.67(a)
	25 Methacrylonitrile	41	4.489	4.489	(0.933)	1203	0.50000	0.34(a)
	26 2,2-Dichloropropane	77	4.174	4.174	(0.868)	1378	0.50000	0.51(M)
	27 cis-1,2-Dichloroethene	96	4.189	4.189	(0.871)	1634	0.50000	0.10(a)
$	30 Dibromofluoromethane	113	4.740	4.740	(0.985)	1185	0.50000	(a)

31 1,1,1-Trichloroethane	97	4.736	4.736 (0.984)	1456	0.50000	0.52
32 1,1-Dichloropropene	75	4.916	4.916 (0.886)	1788	0.50000	0.56(Q)

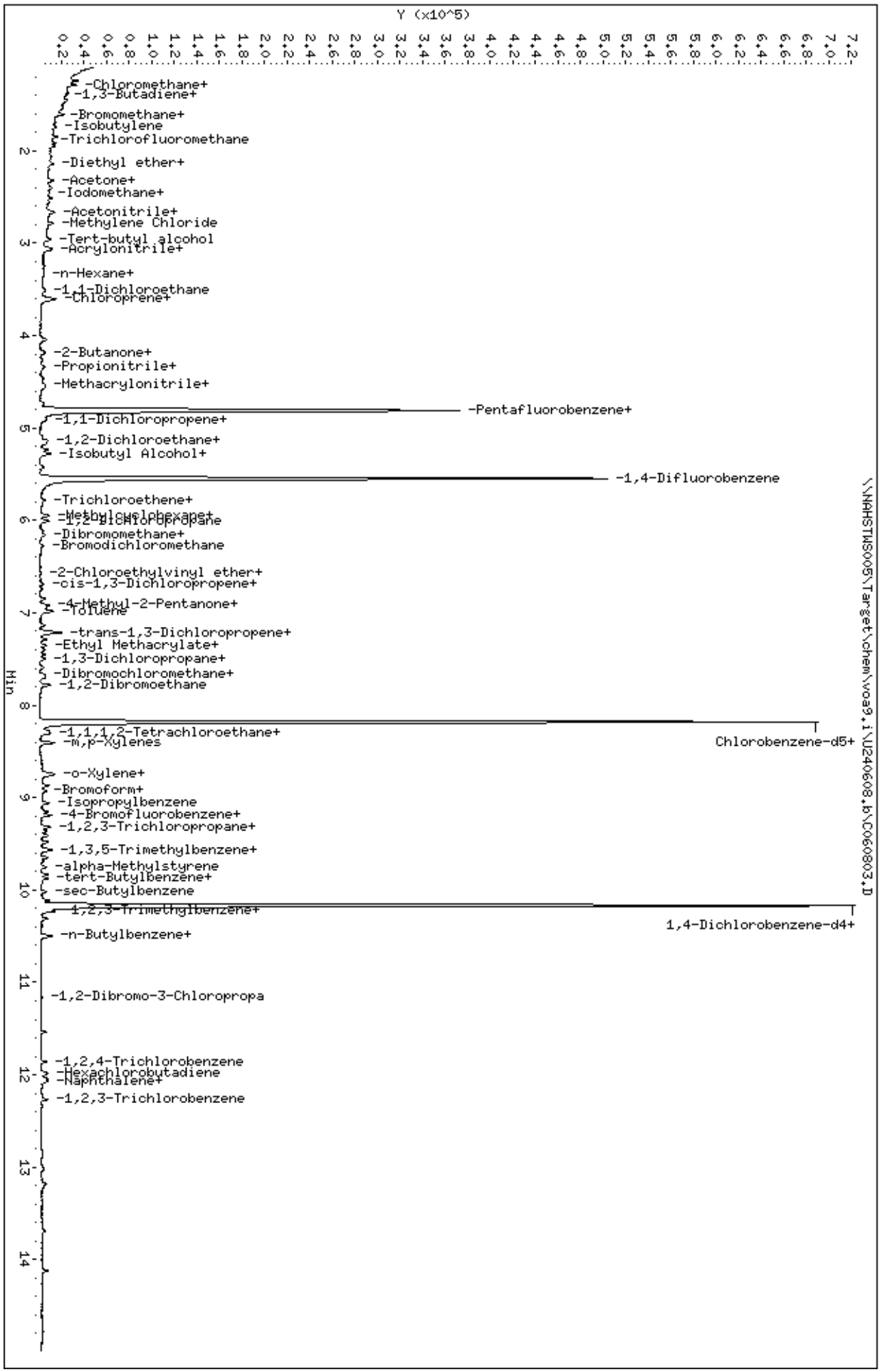
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	34 Carbon Tetrachloride	117	4.905	4.905	(0.884)	1229	0.50000	0.55(Q)
$	35 1,2-Dichloroethane-d4	65	5.093	5.093	(1.058)	1756	0.50000	(Ta)
*	36 1,4-Difluorobenzene	114	5.546	5.546	(1.000)	405317	50.0000	
	37 Benzene	78	5.130	5.130	(0.925)	5600	0.50000	0.24(a)
	38 Trichloroethene	130	5.786	5.786	(1.043)	1313	0.50000	0.62(a)
	39 Bromodichloromethane	83	6.273	6.273	(1.131)	1348	0.50000	0.55(aM)
	40 Methyl Methacrylate	41	5.827	5.827	(1.211)	972	0.50000	0.59(aQM)
	41 2-Chloroethylvinyl ether	63	6.573	6.573	(1.185)	407	1.00000	5.10(M)
	42 1,2-Dichloropropane	63	6.004	6.004	(1.082)	1712	0.50000	0.41(aQ)
	43 2-Nitropropane	43	6.506	6.506	(1.352)	369	0.50000	1.50(aQM)
	44 Dibromomethane	93	6.112	6.112	(1.102)	934	0.50000	0.41(a)
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	3621	1.00000	1.67(aQ)
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.206)	1530	0.50000	0.50(a)
*	47 Chlorobenzene-d5	117	8.182	8.182	(1.000)	364222	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.846)	5383	0.50000	0.26(a)
	49 Ethyl Methacrylate	69	7.286	7.286	(1.314)	2351	0.50000	1.08(a)
	50 Toluene	91	6.978	6.978	(0.853)	5156	0.50000	0.42(a)
	51 trans-1,3-Dichloropropene	75	7.192	7.192	(1.297)	1219	0.50000	0.50(aQ)
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	1037	0.50000	0.24(a)
	54 1,3-Dichloropropane	76	7.495	7.495	(0.916)	2385	0.50000	0.39(a)
	55 Dibromochloromethane	129	7.687	7.687	(0.940)	884	0.50000	0.50(a)
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	856	0.50000	0.52(a)
	57 1,2-Dibromoethane	107	7.780	7.780	(0.951)	1157	0.50000	0.70(a)
	58 1-Chlorohexane	55	8.182	8.182	(1.475)	4533	0.50000	0.90(aQ)
	59 Chlorobenzene	112	8.208	8.208	(1.003)	3861	0.50000	0.29(aQ)
	60 1,1,1,2-Tetrachloroethane	131	8.279	8.279	(1.012)	1076	0.50000	1.28(aQ)
	61 Ethylbenzene	106	8.305	8.305	(1.015)	1572	0.50000	0.55(a)
	62 m,p-Xylenes	106	8.410	8.410	(1.028)	3849	1.00000	1.10(a)
	63 o-Xylene	106	8.744	8.744	(1.069)	1853	0.50000	0.54(a)
	64 Styrene	104	8.763	8.763	(1.071)	2897	0.50000	0.53(a)
	66 Bromoform	173	8.916	8.916	(1.090)	522	0.50000	1.68(aM)
	67 Isopropylbenzene	105	9.059	9.059	(1.107)	3927	0.50000	0.48(a)
	68 1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	1803	0.50000	0.22(aQM)
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	2597	0.50000	0.15(a)
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	184489	50.0000	
	72 trans-1,4-Dichloro-2-butene	53	9.381	9.381	(1.147)	460	0.50000	0.31(aQM)
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	4530	0.50000	0.50(a)
	74 Bromobenzene	156	9.317	9.317	(0.916)	1374	0.50000	0.43(a)
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	2794	0.50000	0.92(a)
	76 2-Chlorotoluene	91	9.482	9.482	(0.933)	3446	0.50000	0.52(a)
	77 4-Chlorotoluene	91	9.576	9.576	(0.942)	3933	0.50000	0.57(a)
	78 tert-Butylbenzene	119	9.835	9.835	(0.967)	2389	0.50000	0.45(a)
	79 1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	3568	0.50000	0.56(a)
	81 sec-Butylbenzene	105	10.018	10.018	(0.985)	3265	0.50000	0.45(a)
	82 p-Isopropyltoluene	119	10.142	10.142	(0.997)	3025	0.50000	0.49(a)
	83 1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	2641	0.50000	0.16(a)
	84 1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	3268	0.50000	0.45(aQ)
	86 Benzyl Chloride	91	10.307	10.307	(1.260)	3455	0.50000	0.86(aM)
	87 n-Butylbenzene	91	10.491	10.491	(1.032)	3051	0.50000	0.54(a)
	88 1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	2698	0.50000	0.35(a)
	89 1,2-Dibromo-3-Chloropropane	155	11.162	11.162	(1.098)	180	0.50000	0.95(aQM)
	90 1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	1518	0.50000	0.57(aQM)

91 Hexachlorobutadiene	225	11.998	11.998 (1.180)	673	0.50000	0.87(aQM)
92 Naphthalene	128	12.069	12.069 (1.187)	3866	0.50000	0.82(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	1477	0.50000	0.50(aQM)
146	Methyl acetate	43	2.705	2.705	(0.562)	1240	0.50000	(aM)
138	Freon TF	101	2.326	2.326	(0.483)	724	0.50000	0.45(aQM)
141	Cyclohexane	56	4.804	4.804	(0.998)	6108	0.50000	0.21(aQ)
142	Tetrahydrofuran	42	4.542	4.542	(0.944)	1698	1.00000	2.11(aQM)
147	Methylcyclohexane	55	5.944	5.944	(1.072)	3965	0.50000	1.26(a)
135	1,4-Dioxane	88	6.165	6.165	(1.281)	1051	10.0000	10.96(a)
132	n-Butanol	56	5.824	5.824	(1.210)	1128	10.0000	17.76(a)
136	n-Hexane	57	3.334	3.334	(0.693)	916	0.50000	0.51(TaQ)
139	Diethyl ether	59	2.135	2.135	(0.444)	1513	0.50000	0.29(a)
149	Isopropyl alcohol	45	2.555	2.555	(0.531)	3251	10.0000	(TaQ)
156	Diisopropyl ether	45	3.616	3.616	(0.751)	6269	0.50000	0.53(Ta)
162	Butyl acrylate	55	8.733	8.733	(1.067)	2872	0.50000	0.64(aQ)
164	Dicyclopentadiene	66	10.195	10.195	(1.003)	8246	0.50000	0.56(a)
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	5188	0.50000	1.37(a)
167	Ethanol	45	2.075	2.075	(0.431)	677	10.0000	15.91(QM)
172	tert-Butyl formate	59	5.235	5.235	(1.088)	3591	1.00000	0.11(aM)
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.301)	9777	10.0000	18.49
140	1,3-Butadiene	54	1.396	1.396	(0.290)	550	0.50000	0.52(aQM)
182	Epichlorohydrin	57	6.630	6.630	(1.195)	348	2.00000	3.44(aM)
M 94	1,2-Dichloroethylene (total)	96				2924	1.00000	(a)
130	Ethyl Acetate	43	4.534	4.534	(0.942)	1183	0.50000	(aM)
131	Methyl Acrylate	55	4.369	4.369	(0.908)	2571	0.50000	1.09(aM)
189	n-Butyl acetate	43	7.702	7.702	(0.941)	1939	0.50000	0.54(aQM)
134	Cyclohexanone	55	9.152	9.152	(0.900)	2250	10.0000	33.03(aQ)
185	Isoprene	39	2.142	2.142	(0.445)	158	0.50000	0.20(aQM)
188	Isopropyl acetate	43	5.280	5.280	(0.952)	4363	0.50000	0.16(aM)
150	Allyl alcohol	57	3.334	3.334	(0.693)	916	10.0000	10.22
194	Acetaldehyde	44	1.449	1.449	(0.301)	1318	2.00000	(aQM)
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	638	0.50000	1.55(aQM)
202	Isobutylene	41	1.741	1.741	(0.362)	735	0.50000	1.35(aM)
133	Ethyl Acrylate	55	5.944	5.944	(1.235)	4141	0.50000	1.02(aM)
178	Ethylene oxide	44	1.599	1.599	(0.332)	3551	1.00000	4.55(aM)
203	2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	2097	0.50000	1.66(a)
204	Tetrahydrothiophene	60	7.672	7.672	(0.938)	1751	0.50000	0.99(aA)
205	sec-Butyl Ether	57	7.214	7.214	(0.882)	4241	0.50000	1.06(aAM)
187	n-Amyl acetate	43	8.927	8.927	(1.091)	2156	0.50000	(aQM)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
    exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240608.b\C060803.D
Date : 08-JUN-2024 16:16
Client ID: VSTD00.5
Sample Info: VSTD00.5;VSTD00.5;1;2
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

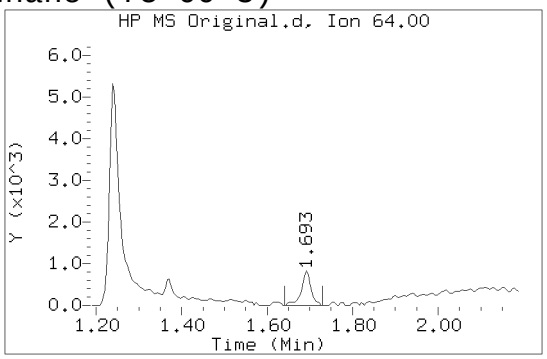
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Inj Date : 08-JUN-2024 16:16
InstruID : VOA9.i
LabSampID : VSTD00.5

Chloroethane (75-00-3)

Reason Code:

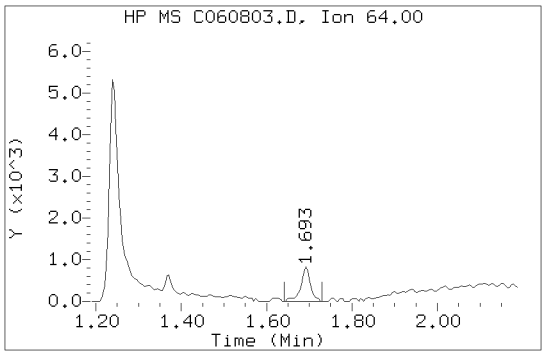
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21-Jun-2024
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PATEL



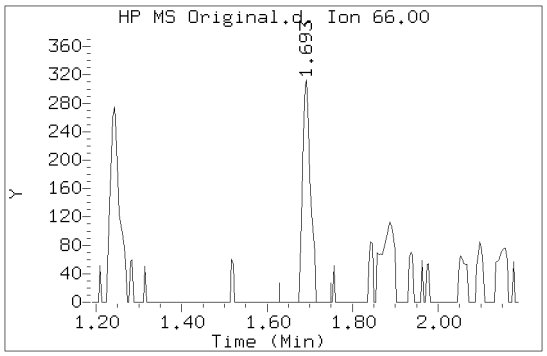
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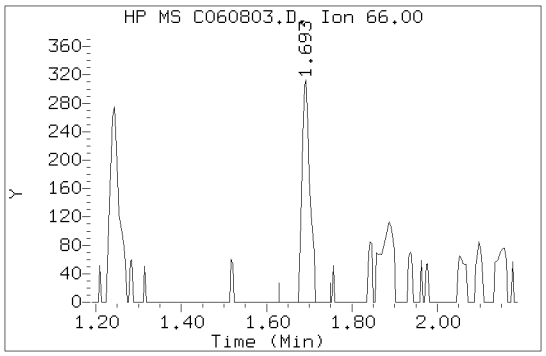
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AFTER

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HEIGHT
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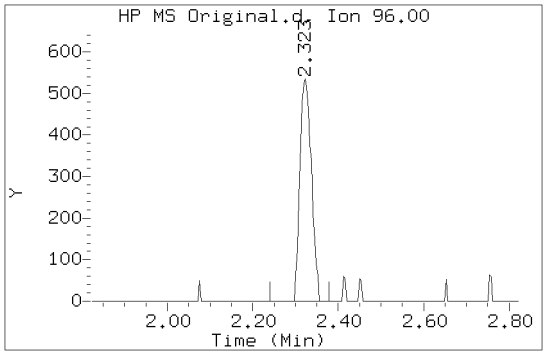


1,1-Dichloroethene (75-35-4)

Reason Code:

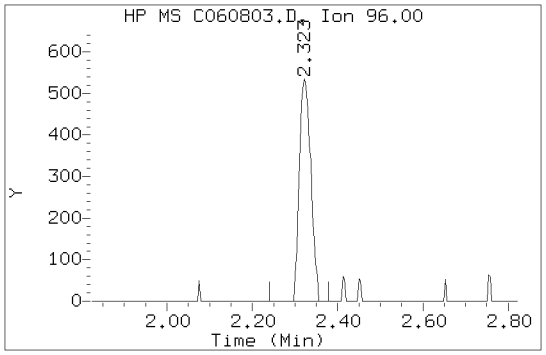
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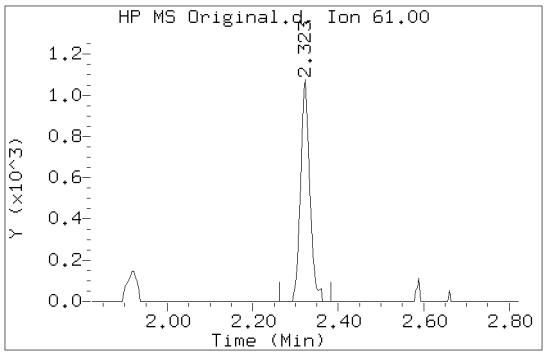
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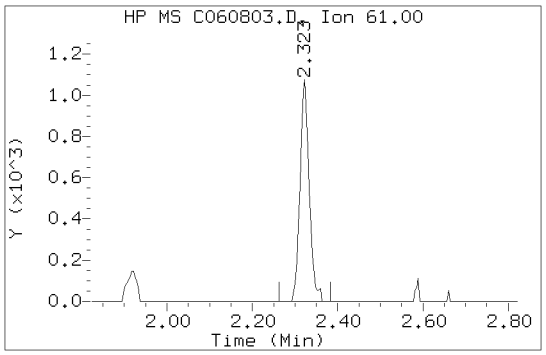
BEFORE

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21-Jun-2024
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PATEL



AFTER

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HEIGHT
1076
21-Jun-2024
10:55
RUCHA
PATEL



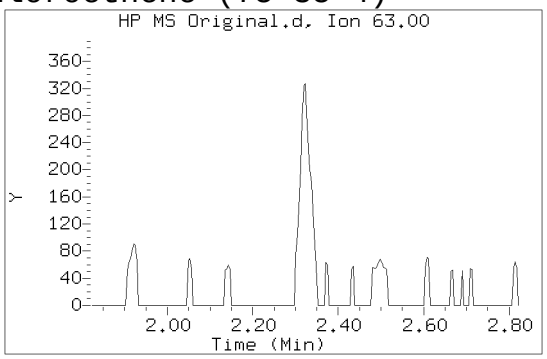
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240608.b\C060803.D
Inj Date : 08-JUN-2024 16:16
InstruID : VOA9.i
LabSampID : VSTD00.5

1,1-Dichloroethene (75-35-4)

Reason Code:

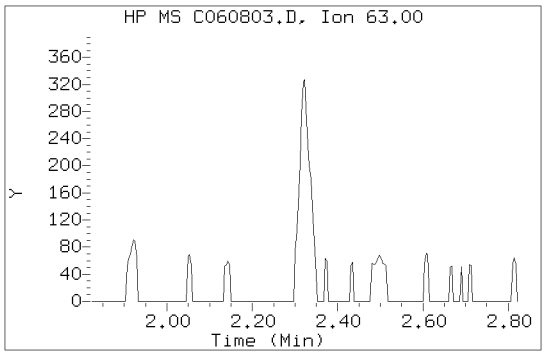
BEFORE

MASS
63
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
63
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL

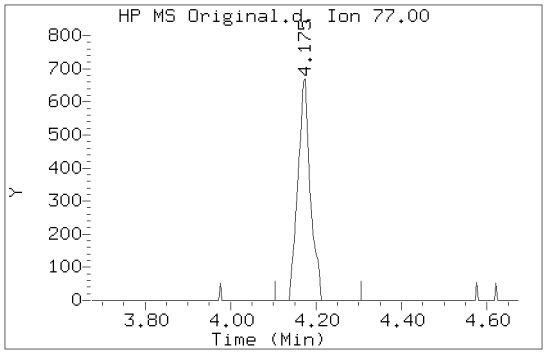


2,2-Dichloropropane (594-20-7)

Reason Code:

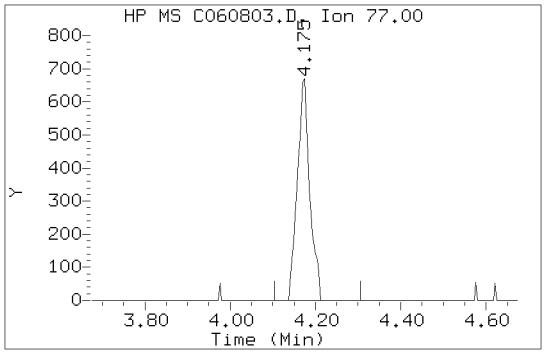
BEFORE

MASS
77
AREA
1378
HEIGHT
670
21-Jun-2024
10:55
RUCHA
PATEL



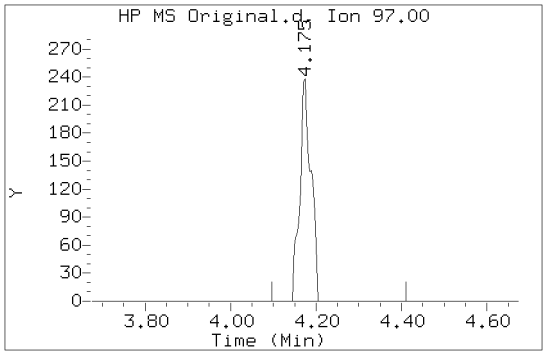
AFTER

MASS
77
AREA
1378
HEIGHT
670
21-Jun-2024
10:55
RUCHA
PATEL



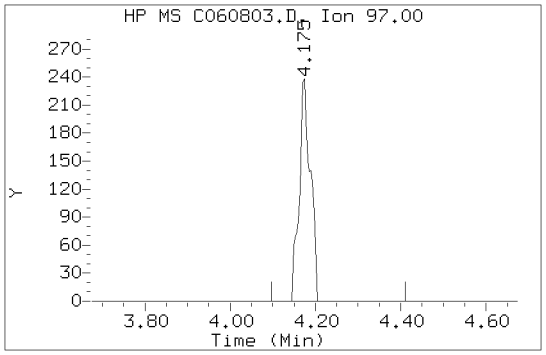
BEFORE

MASS
97
AREA
441
HEIGHT
238
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
97
AREA
441
HEIGHT
238
21-Jun-2024
10:55
RUCHA
PATEL

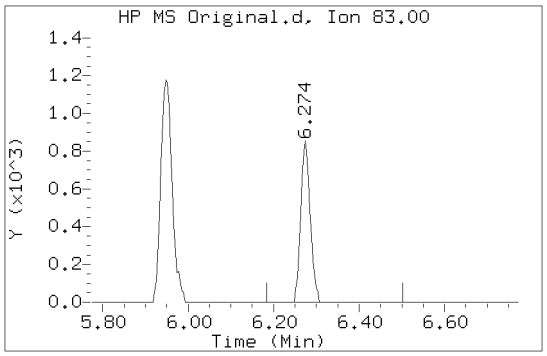


Bromodichloromethane (75-27-4)

Reason Code:

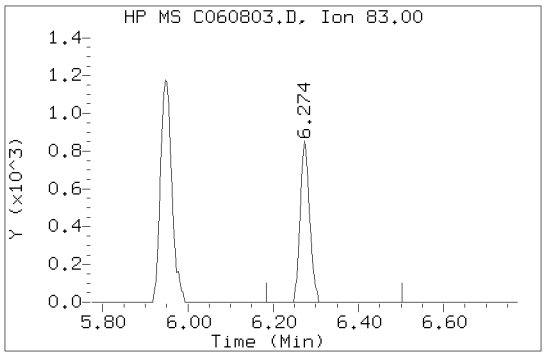
BEFORE

MASS
83
AREA
1348
HEIGHT
854
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
83
AREA
1348
HEIGHT
854
21-Jun-2024
10:55
RUCHA
PATEL



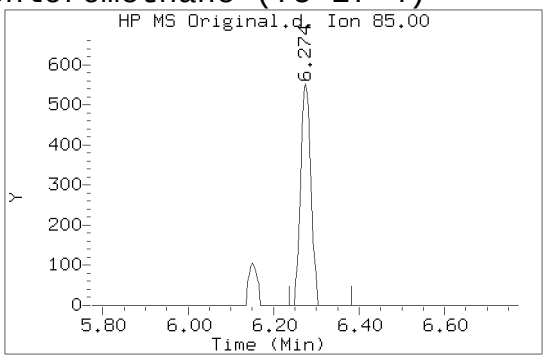
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240608.b\C060803.D
Inj Date : 08-JUN-2024 16:16
InstruID : VOA9.i
LabSampID : VSTD00.5

Bromodichloromethane (75-27-4)

Reason Code:

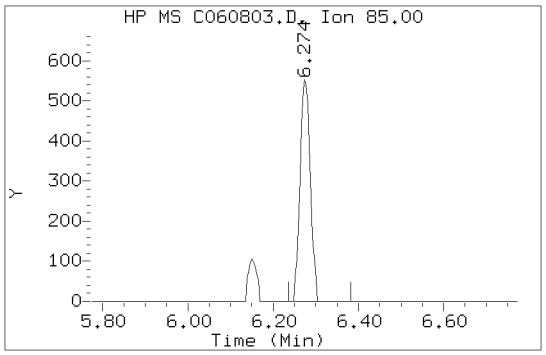
BEFORE

MASS
85
AREA
947
HEIGHT
553
21-Jun-2024
10:55
RUCHA
PATEL



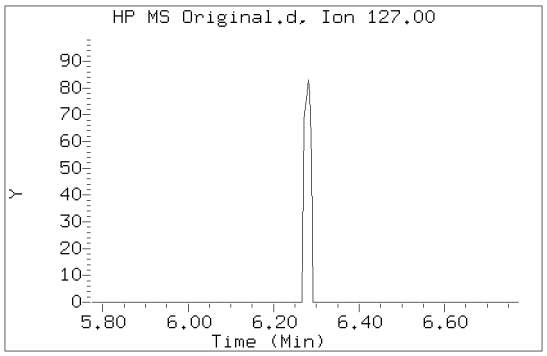
AFTER

MASS
85
AREA
947
HEIGHT
553
21-Jun-2024
10:55
RUCHA
PATEL



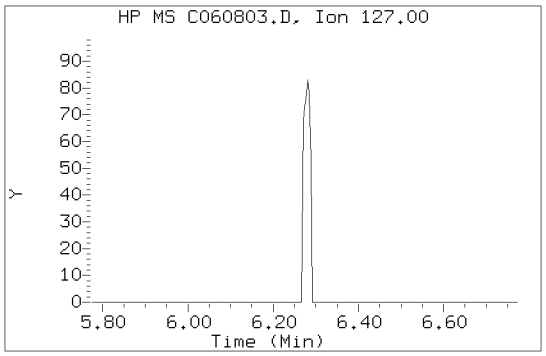
BEFORE

MASS
127
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
127
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL

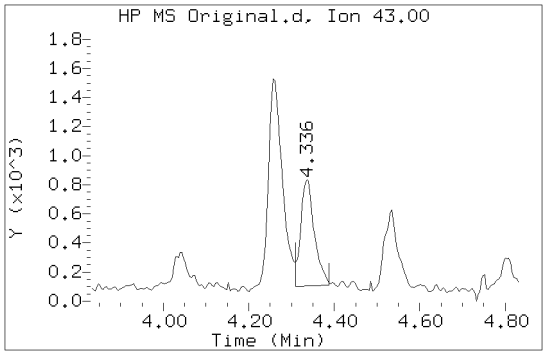


Vinyl Acetate (108-05-4)

Reason Code:

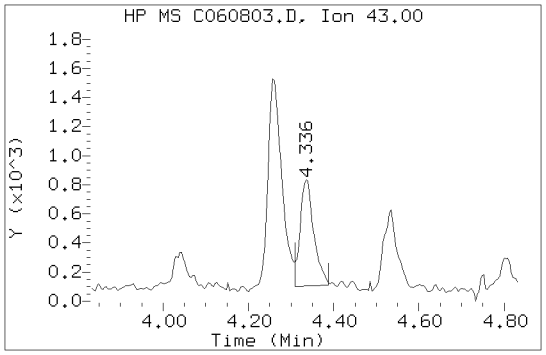
BEFORE

MASS
43
AREA
1667
HEIGHT
728
21-Jun-2024
10:55
RUCHA
PATEL



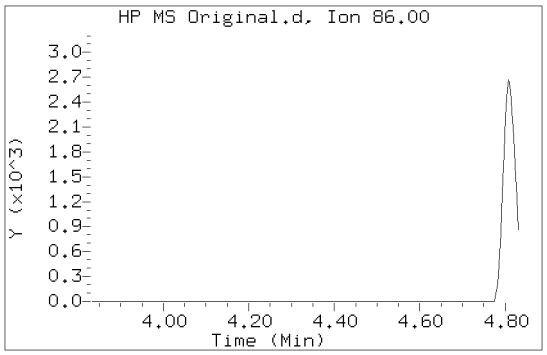
AFTER

MASS
43
AREA
1667
HEIGHT
728
21-Jun-2024
10:55
RUCHA
PATEL



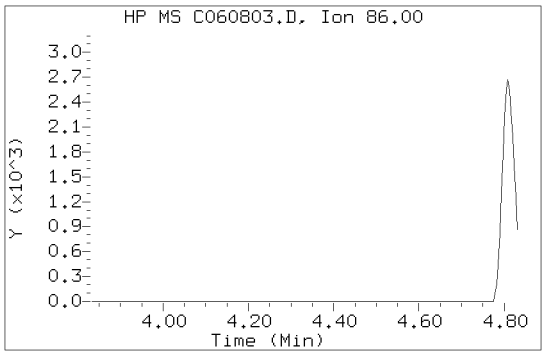
BEFORE

MASS
86
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
86
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



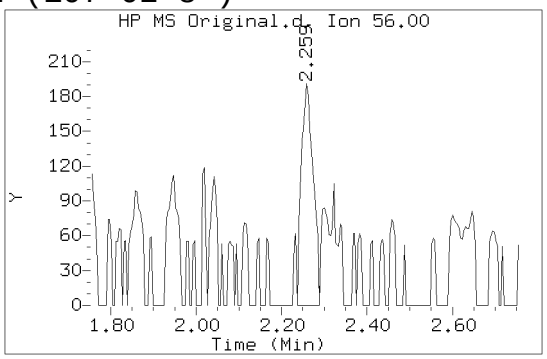
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240608.b\C060803.D
Inj Date : 08-JUN-2024 16:16
InstruID : VOA9.i
LabSampID : VSTD00.5

Acrolein (107-02-8)

Reason Code:

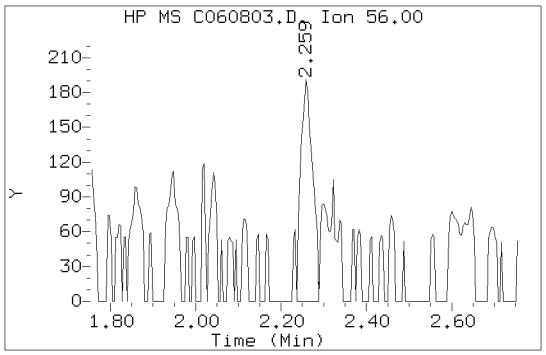
BEFORE

MASS
56
AREA
372
HEIGHT
191
21-Jun-2024
10:55
RUCHA
PATEL



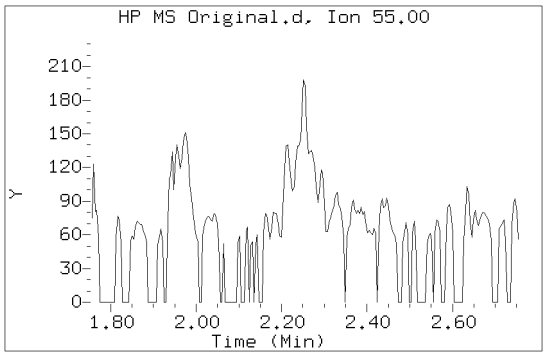
AFTER

MASS
56
AREA
372
HEIGHT
191
21-Jun-2024
10:55
RUCHA
PATEL



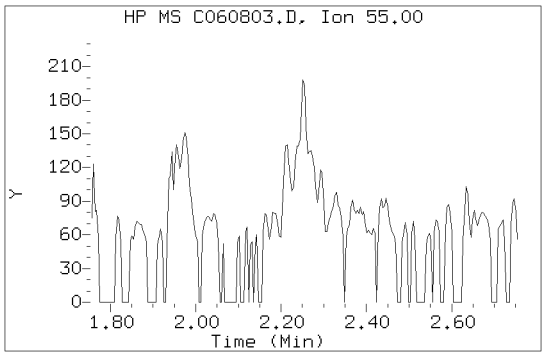
BEFORE

MASS
55
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
55
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL

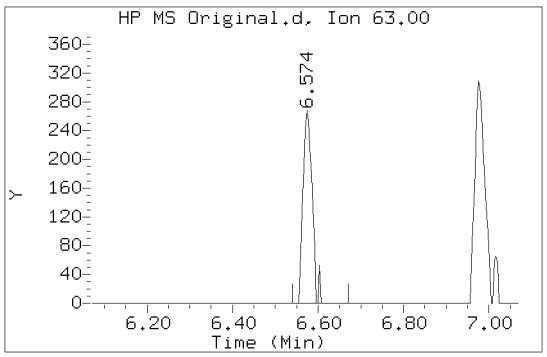


2-Chloroethylvinyl ether (110-75-8)

Reason Code:

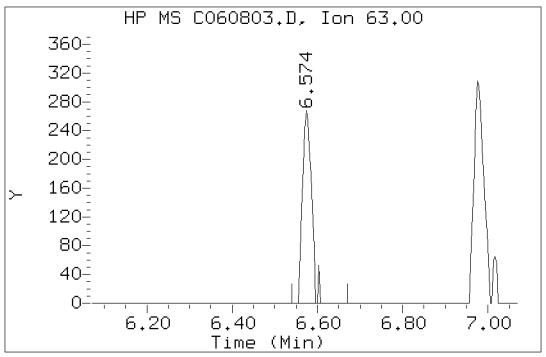
BEFORE

MASS
63
AREA
407
HEIGHT
268
21-Jun-2024
10:55
RUCHA
PATEL



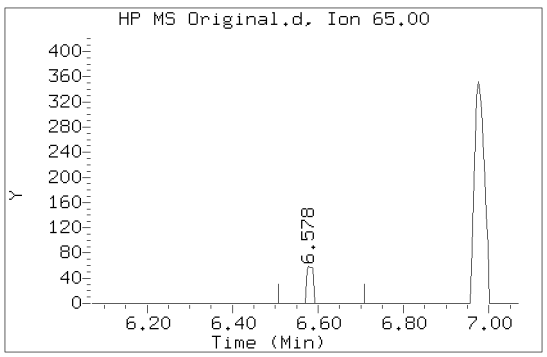
AFTER

MASS
63
AREA
407
HEIGHT
268
21-Jun-2024
10:55
RUCHA
PATEL



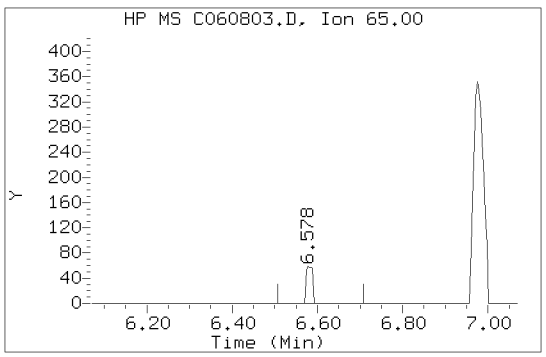
BEFORE

MASS
65
AREA
63
HEIGHT
59
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
65
AREA
63
HEIGHT
59
21-Jun-2024
10:55
RUCHA
PATEL



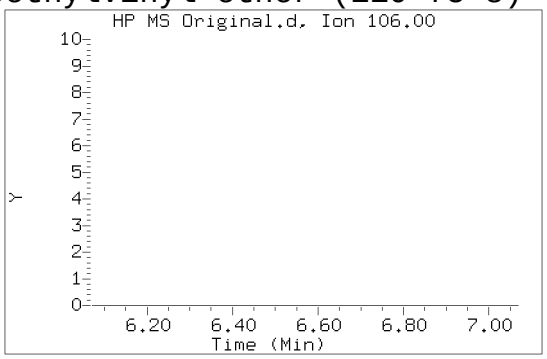
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240608.b\C060803.D
Inj Date : 08-JUN-2024 16:16
InstruID : VOA9.i
LabSampID : VSTD00.5

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

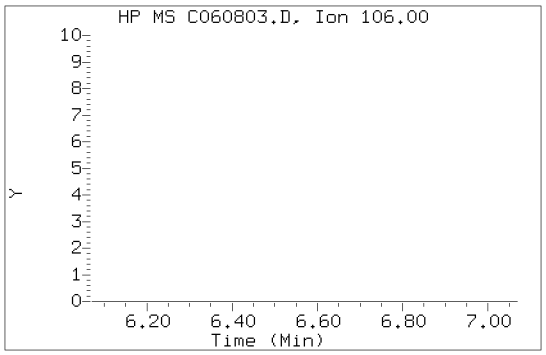
BEFORE

MASS
106
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
106
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL

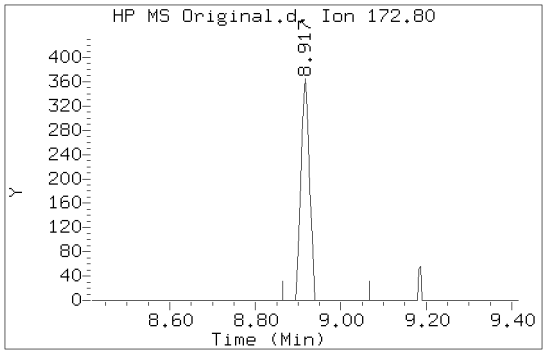


Bromoform (75-25-2)

Reason Code:

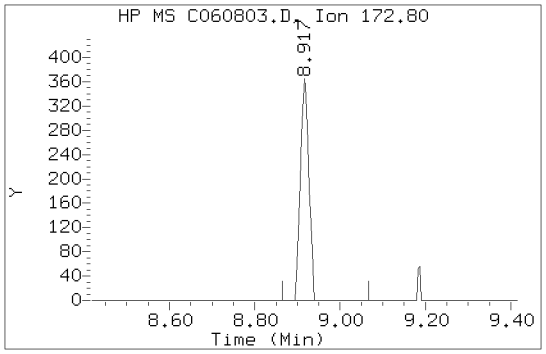
BEFORE

MASS
172.8
AREA
522
HEIGHT
365
21-Jun-2024
10:55
RUCHA
PATEL



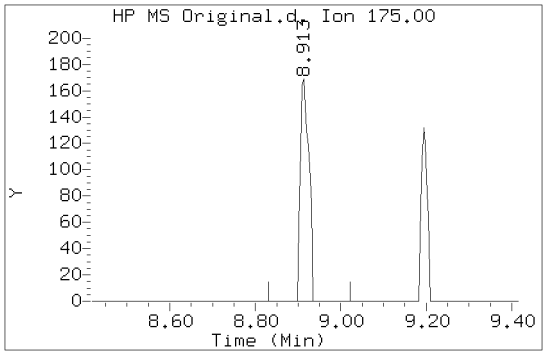
AFTER

MASS
172.8
AREA
522
HEIGHT
365
21-Jun-2024
10:55
RUCHA
PATEL



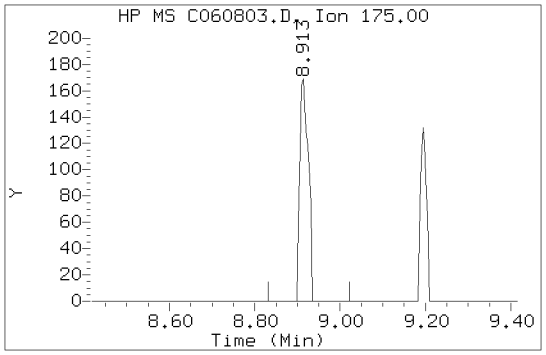
BEFORE

MASS
175
AREA
242
HEIGHT
169
21-Jun-2024
10:55
RUCHA
PATEL



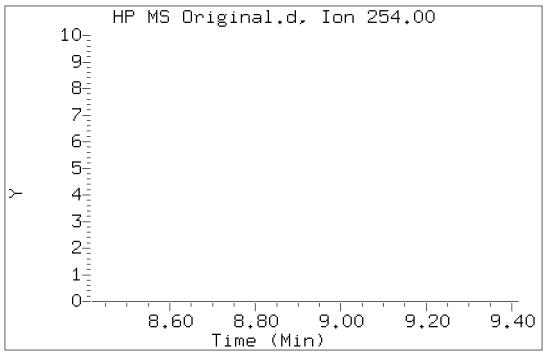
AFTER

MASS
175
AREA
242
HEIGHT
169
21-Jun-2024
10:55
RUCHA
PATEL



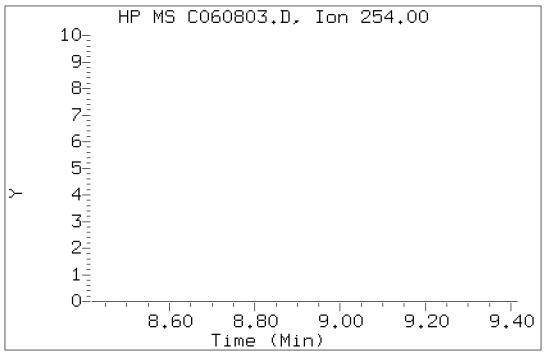
BEFORE

MASS
254
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
254
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



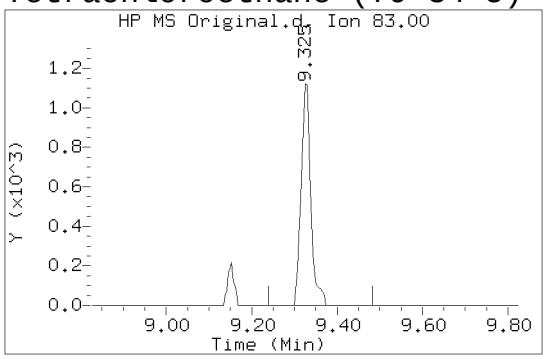
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240608.b\C060803.D
Inj Date : 08-JUN-2024 16:16
InstruID : VOA9.i
LabSampID : VSTD00.5

1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

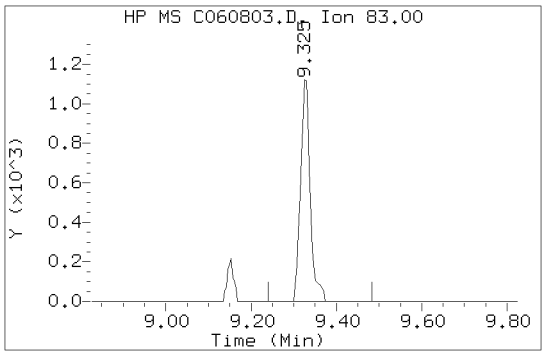
BEFORE

MASS
83
AREA
1803
HEIGHT
1122
21-Jun-2024
10:55
RUCHA
PATEL



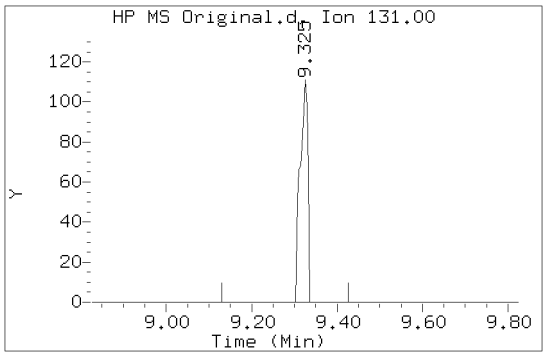
AFTER

MASS
83
AREA
1803
HEIGHT
1122
21-Jun-2024
10:55
RUCHA
PATEL



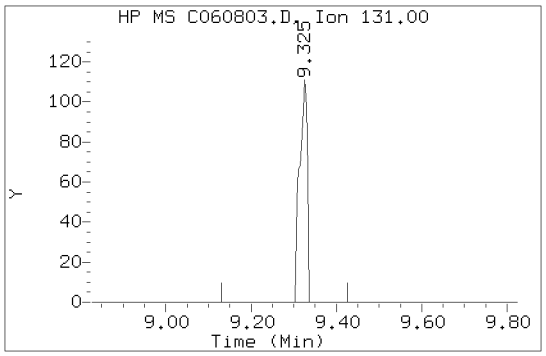
BEFORE

MASS
131
AREA
142
HEIGHT
111
21-Jun-2024
10:55
RUCHA
PATEL



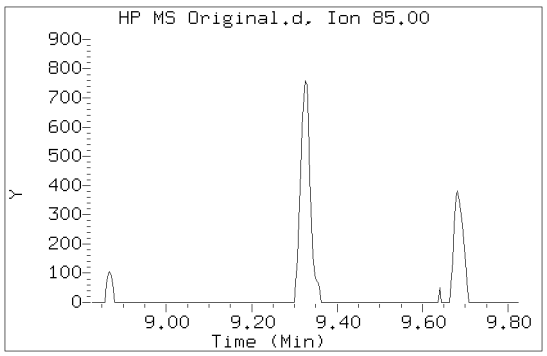
AFTER

MASS
131
AREA
142
HEIGHT
111
21-Jun-2024
10:55
RUCHA
PATEL



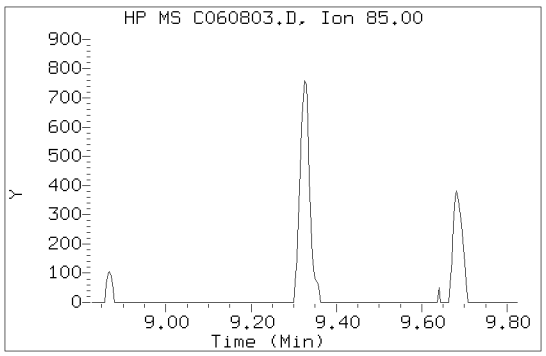
BEFORE

MASS
85
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
85
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL

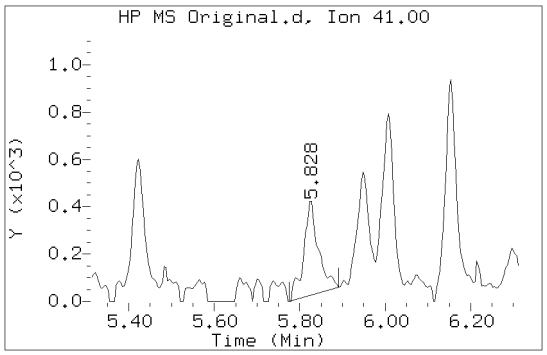


Methyl Methacrylate (80-62-6)

Reason Code:

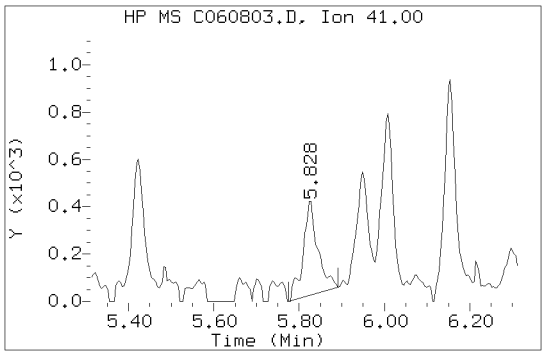
BEFORE

MASS
41
AREA
972
HEIGHT
396
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
41
AREA
972
HEIGHT
396
21-Jun-2024
10:55
RUCHA
PATEL



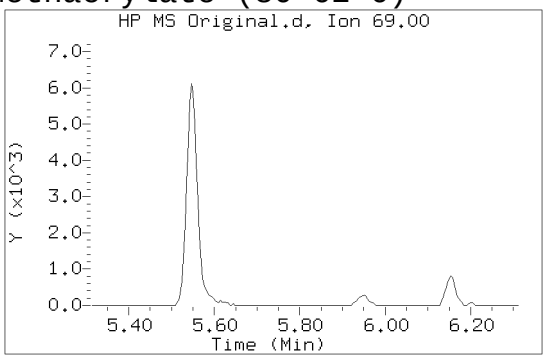
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240608.b\C060803.D
Inj Date : 08-JUN-2024 16:16
InstruID : VOA9.i
LabSampID : VSTD00.5

Methyl Methacrylate (80-62-6)

Reason Code:

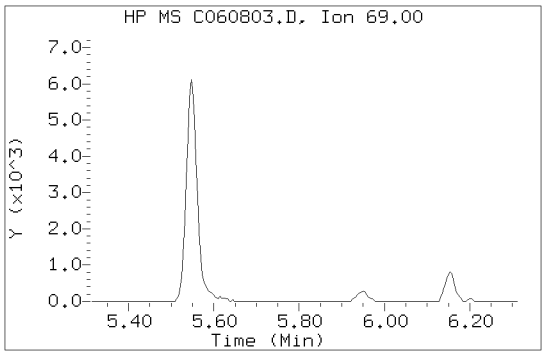
BEFORE

MASS
69
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



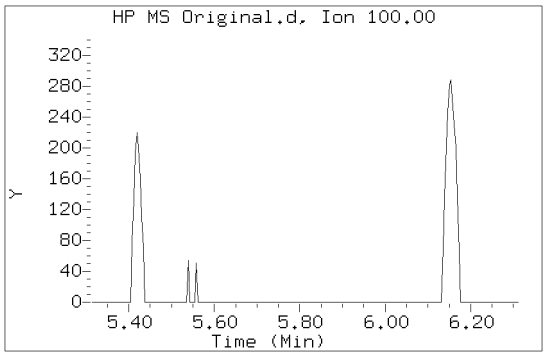
AFTER

MASS
69
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



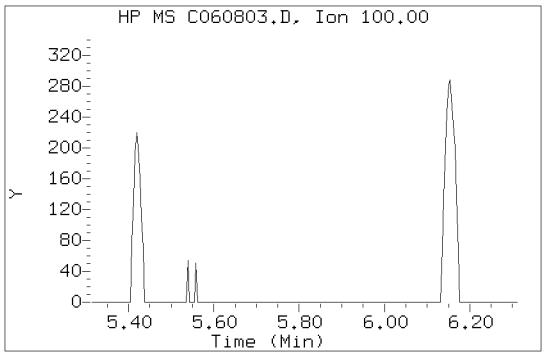
BEFORE

MASS
100
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
100
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL

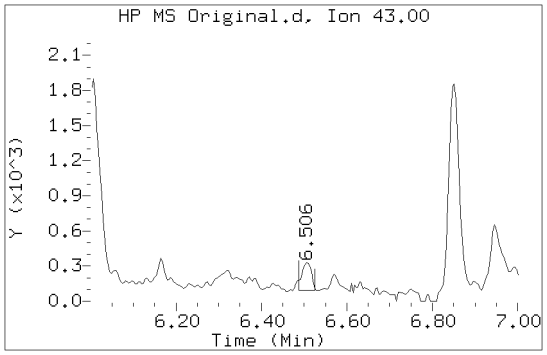


2-Nitropropane (79-46-9)

Reason Code:

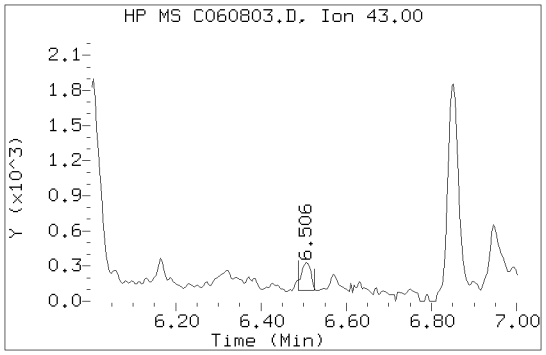
BEFORE

MASS
43
AREA
369
HEIGHT
236
21-Jun-2024
10:55
RUCHA
PATEL



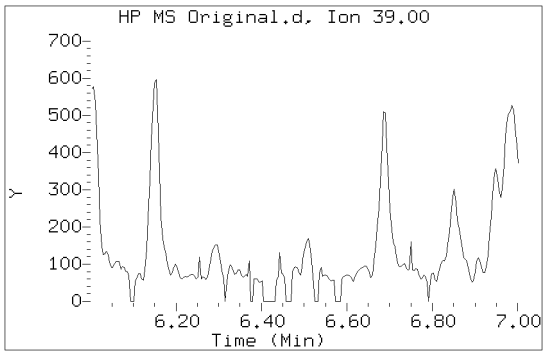
AFTER

MASS
43
AREA
369
HEIGHT
236
21-Jun-2024
10:55
RUCHA
PATEL



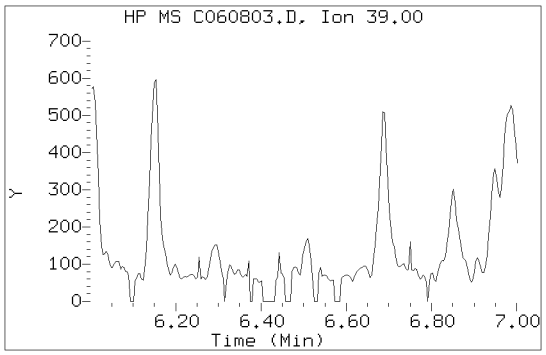
BEFORE

MASS
39
AREA
833
HEIGHT
385
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
39
AREA
833
HEIGHT
385
21-Jun-2024
10:55
RUCHA
PATEL



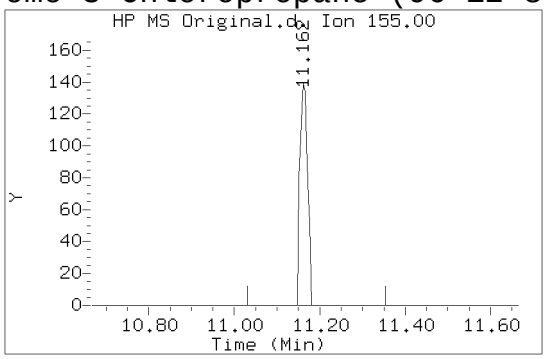
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240608.b\C060803.D
Inj Date : 08-JUN-2024 16:16
InstruID : VOA9.i
LabSampID : VSTD00.5

1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

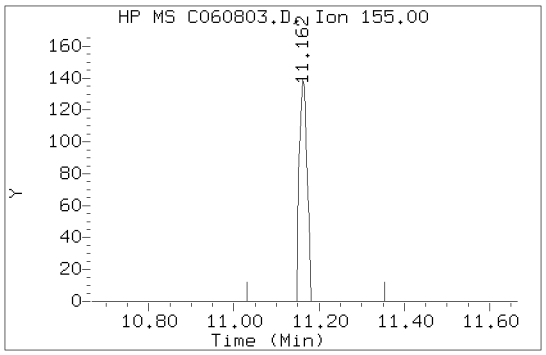
BEFORE

MASS
155
AREA
180
HEIGHT
139
21-Jun-2024
10:55
RUCHA
PATEL



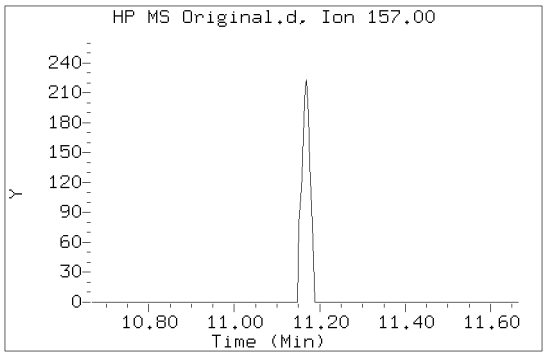
AFTER

MASS
155
AREA
180
HEIGHT
139
21-Jun-2024
10:55
RUCHA
PATEL



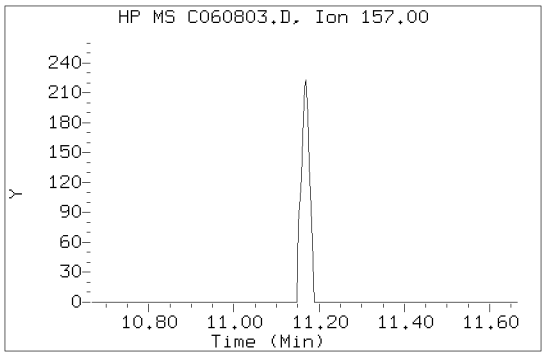
BEFORE

MASS
157
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



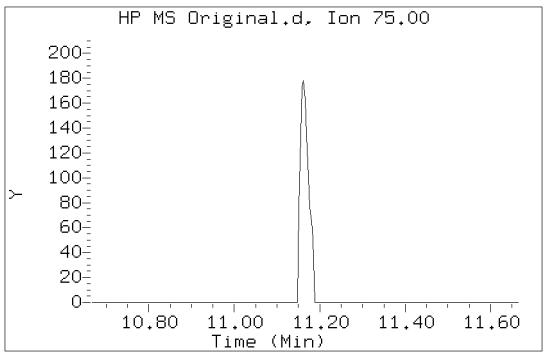
AFTER

MASS
157
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



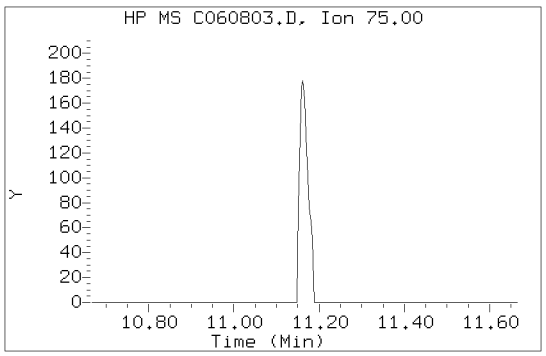
BEFORE

MASS
75
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
75
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL

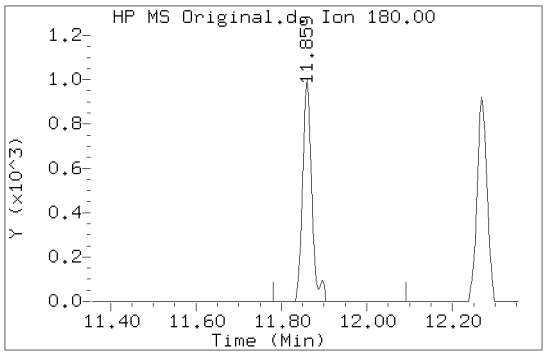


1,2,4-Trichlorobenzene (120-82-1)

Reason Code:

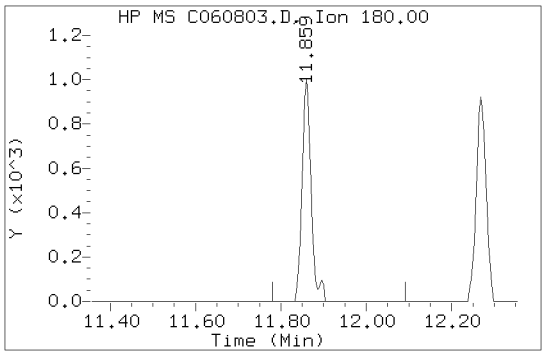
BEFORE

MASS
180
AREA
1518
HEIGHT
1000
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
180
AREA
1518
HEIGHT
1000
21-Jun-2024
10:55
RUCHA
PATEL



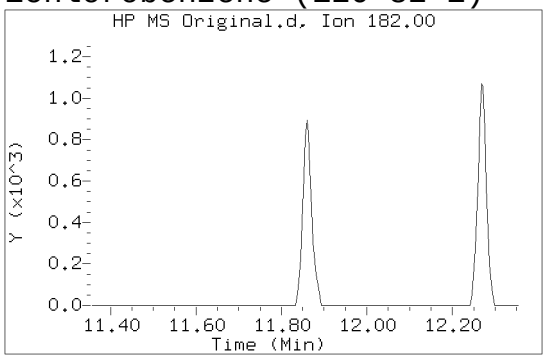
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240608.b\C060803.D
Inj Date : 08-JUN-2024 16:16
InstruID : VOA9.i
LabSampID : VSTD00.5

1,2,4-Trichlorobenzene (120-82-1)

Reason Code:

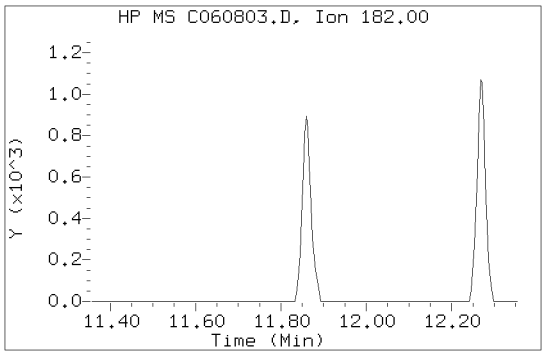
BEFORE

MASS
182
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



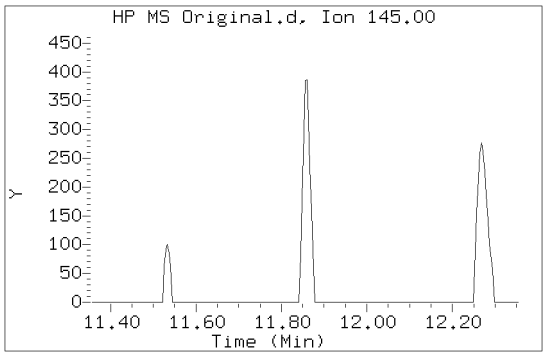
AFTER

MASS
182
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



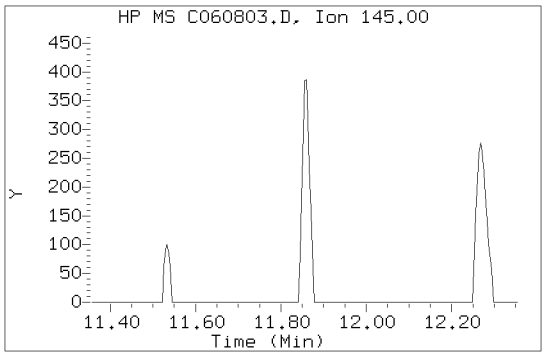
BEFORE

MASS
145
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
145
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL

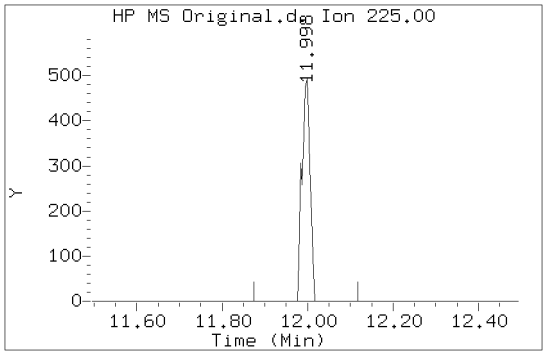


Hexachlorobutadiene (87-68-3)

Reason Code:

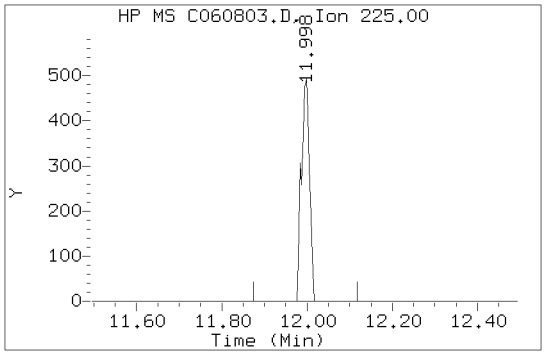
BEFORE

MASS
225
AREA
673
HEIGHT
493
21-Jun-2024
10:55
RUCHA
PATEL



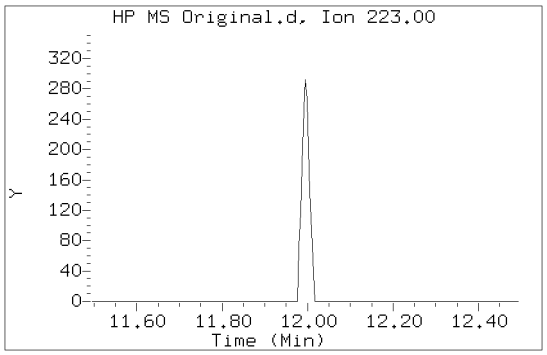
AFTER

MASS
225
AREA
673
HEIGHT
493
21-Jun-2024
10:55
RUCHA
PATEL



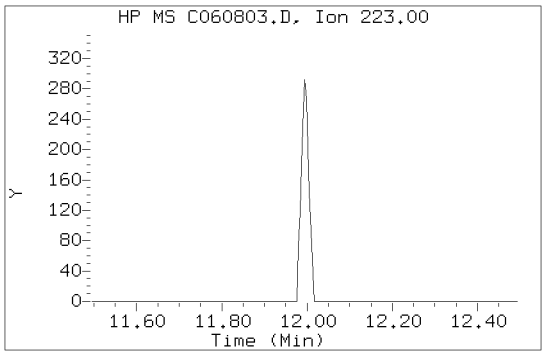
BEFORE

MASS
223
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
223
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



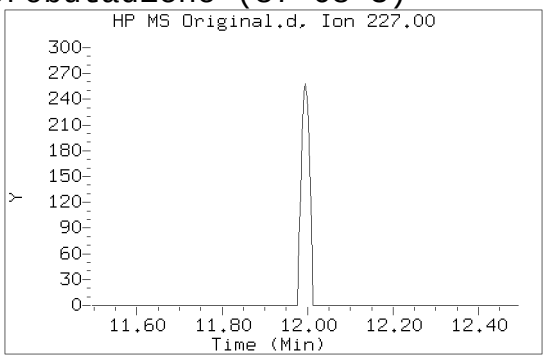
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240608.b\C060803.D
Inj Date : 08-JUN-2024 16:16
InstruID : VOA9.i
LabSampID : VSTD00.5

Hexachlorobutadiene (87-68-3)

Reason Code:

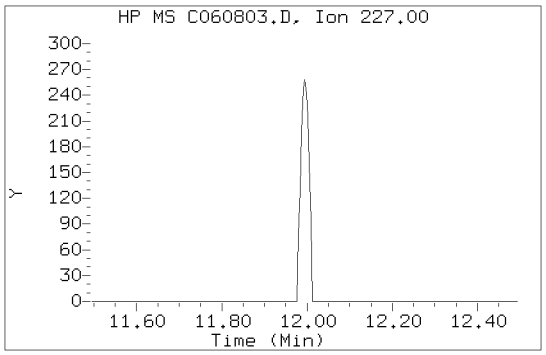
BEFORE

MASS
227
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
227
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL

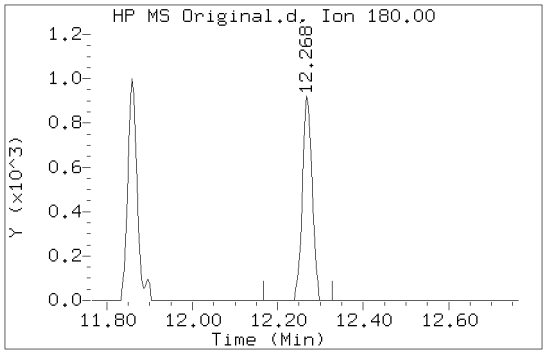


1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

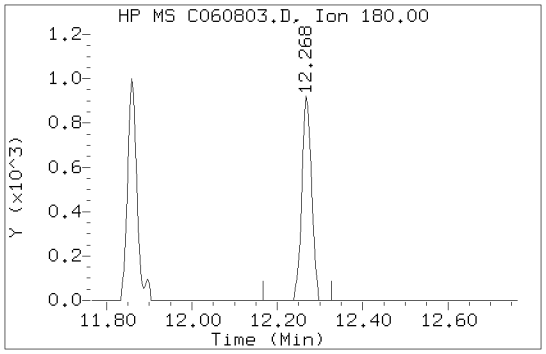
BEFORE

MASS
180
AREA
1477
HEIGHT
923
21-Jun-2024
10:55
RUCHA
PATEL



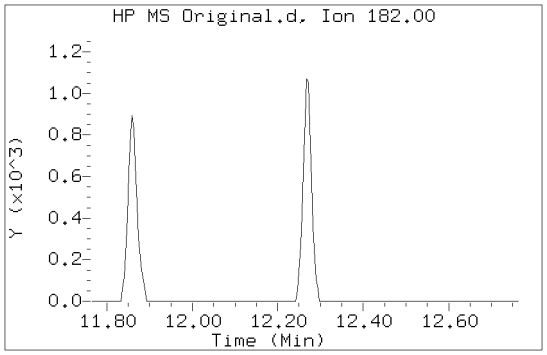
AFTER

MASS
180
AREA
1477
HEIGHT
923
21-Jun-2024
10:55
RUCHA
PATEL



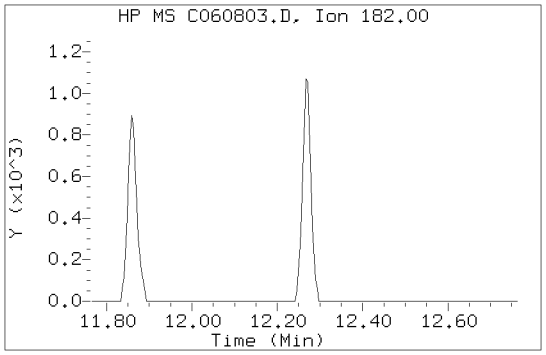
BEFORE

MASS
182
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



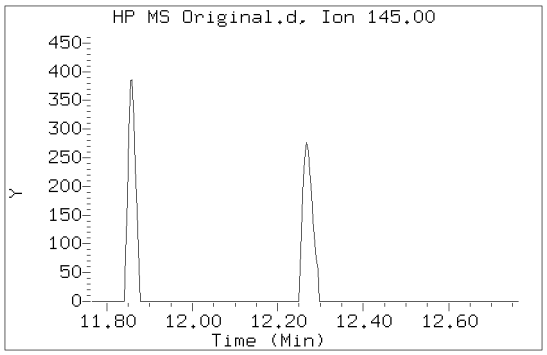
AFTER

MASS
182
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



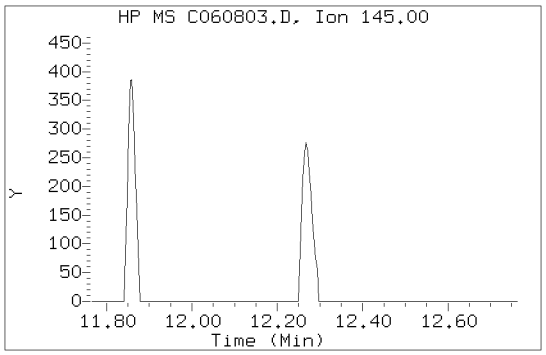
BEFORE

MASS
145
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
145
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL

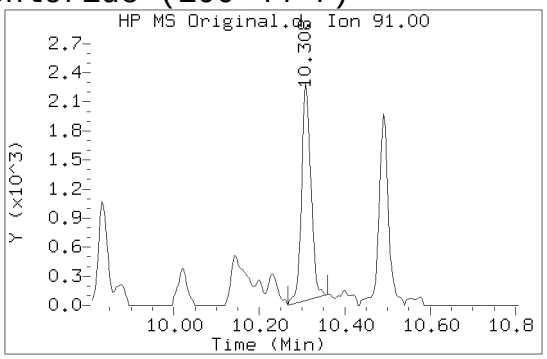


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240608.b\C060803.D
Inj Date : 08-JUN-2024 16:16
InstruID : VOA9.i
LabSampID : VSTD00.5

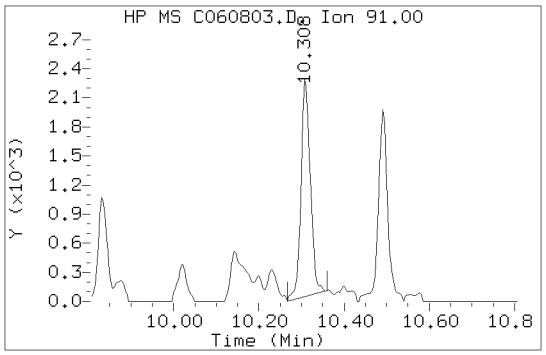
Benzyl Chloride (100-44-7)

Reason Code:

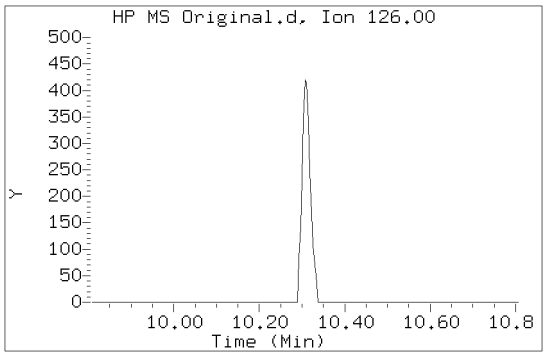
BEFORE
MASS
91
AREA
3455
HEIGHT
2237
21-Jun-2024
10:55
RUCHA
PATEL



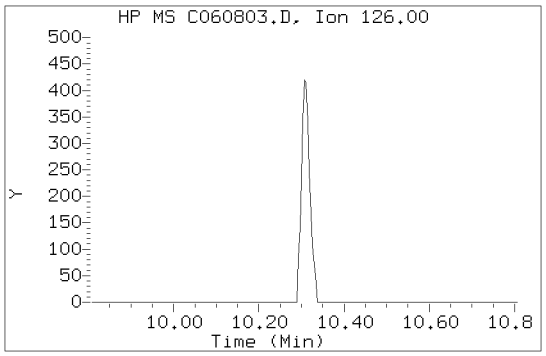
AFTER
MASS
91
AREA
3455
HEIGHT
2237
21-Jun-2024
10:55
RUCHA
PATEL



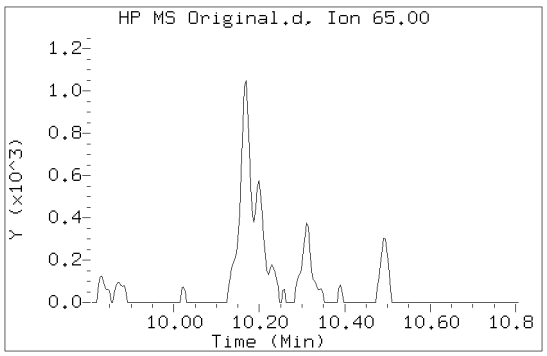
BEFORE
MASS
126
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



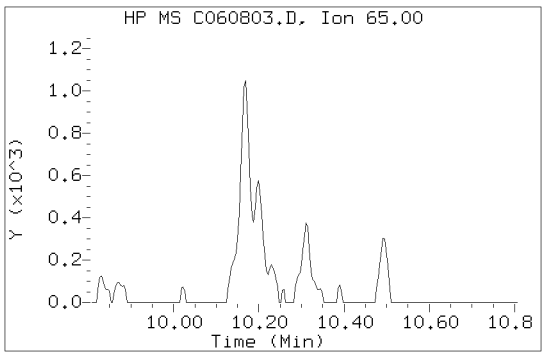
AFTER
MASS
126
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



BEFORE
MASS
65
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



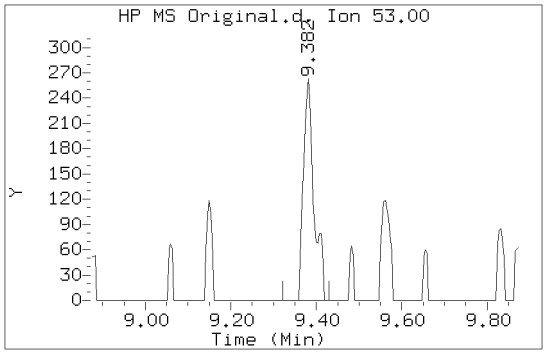
AFTER
MASS
65
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



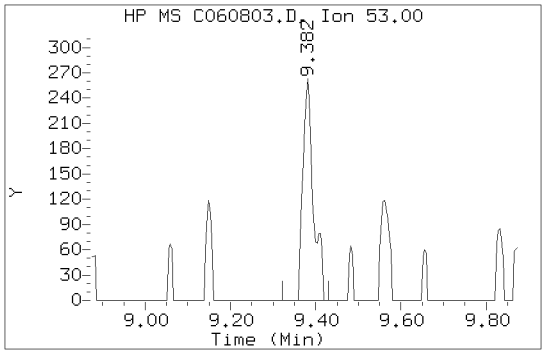
trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

BEFORE
MASS
53
AREA
460
HEIGHT
263
21-Jun-2024
10:55
RUCHA
PATEL



AFTER
MASS
53
AREA
460
HEIGHT
263
21-Jun-2024
10:55
RUCHA
PATEL



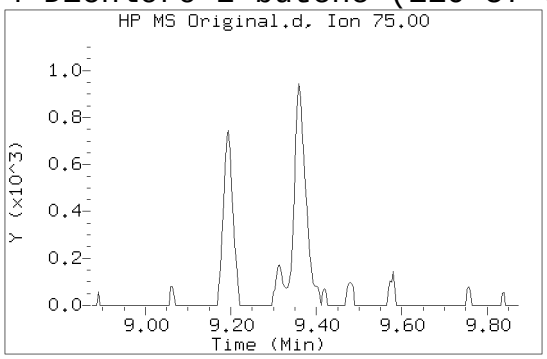
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240608.b\C060803.D
Inj Date : 08-JUN-2024 16:16
InstruID : VOA9.i
LabSampID : VSTD00.5

trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

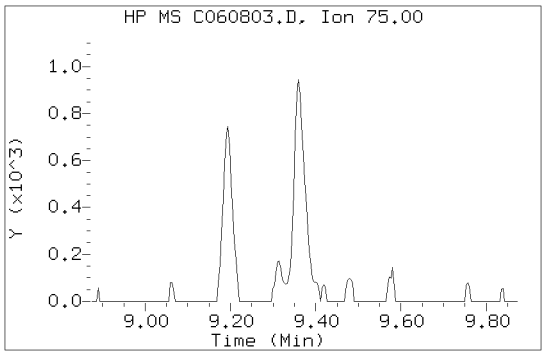
BEFORE

MASS
75
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
75
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL

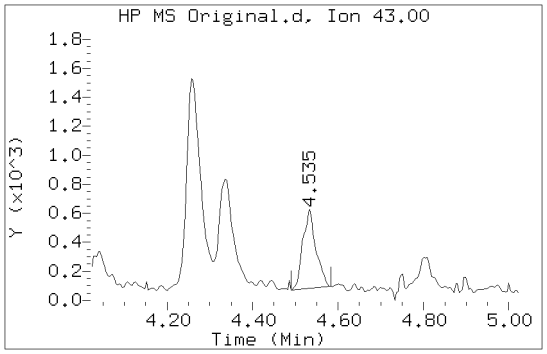


Ethyl Acetate (141-78-6)

Reason Code:

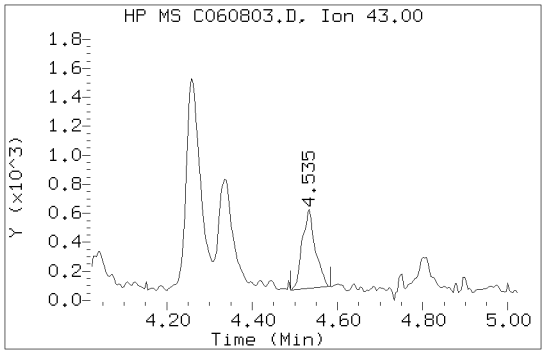
BEFORE

MASS
43
AREA
1183
HEIGHT
544
21-Jun-2024
10:55
RUCHA
PATEL



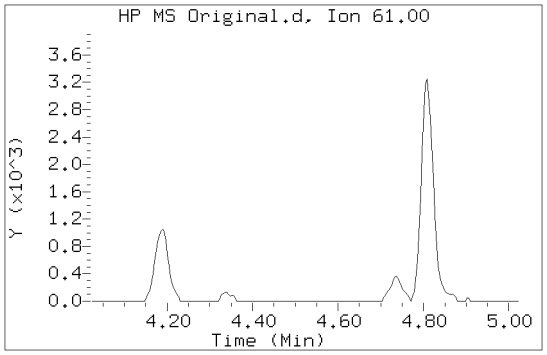
AFTER

MASS
43
AREA
1183
HEIGHT
544
21-Jun-2024
10:55
RUCHA
PATEL



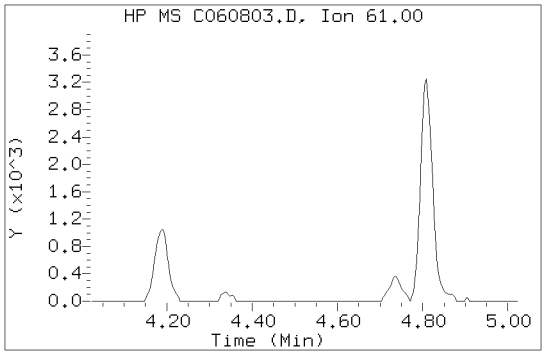
BEFORE

MASS
61
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



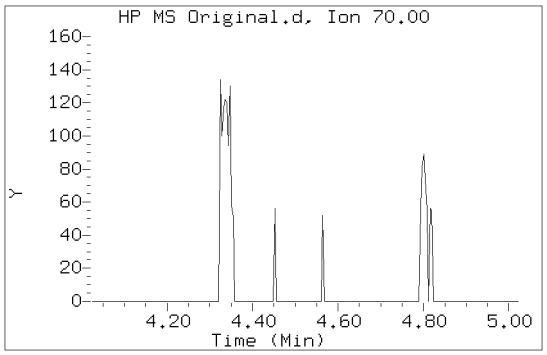
AFTER

MASS
61
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



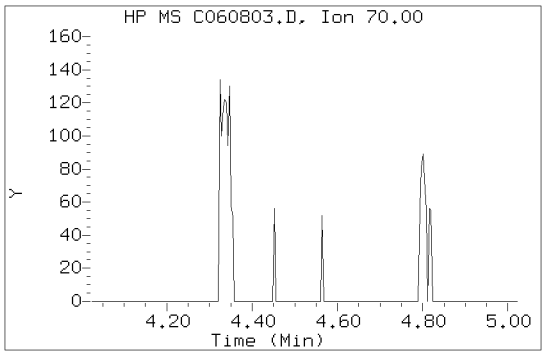
BEFORE

MASS
70
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
70
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



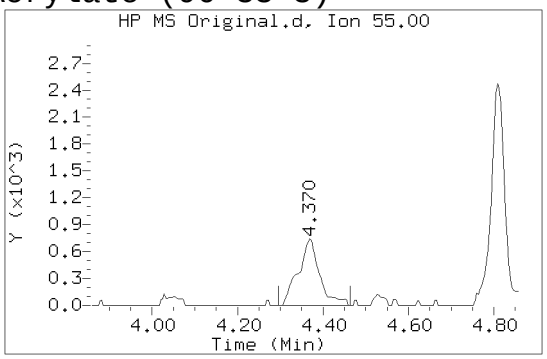
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Inj Date : 08-JUN-2024 16:16
InstruID : VOA9.i
LabSampID : VSTD00.5

Methyl Acrylate (96-33-3)

Reason Code:

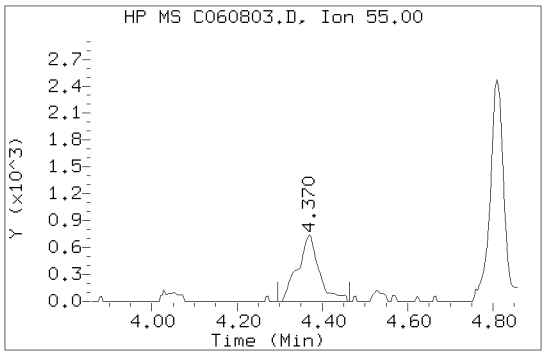
BEFORE

MASS
55
AREA
2571
HEIGHT
744
21-Jun-2024
10:55
RUCHA
PATEL



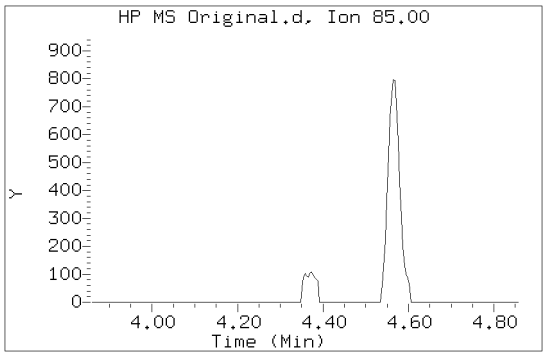
AFTER

MASS
55
AREA
2571
HEIGHT
744
21-Jun-2024
10:55
RUCHA
PATEL



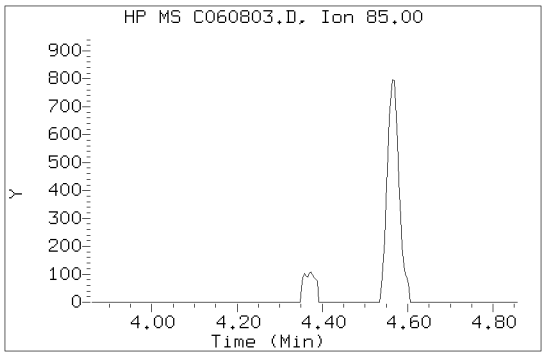
BEFORE

MASS
85
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
85
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL

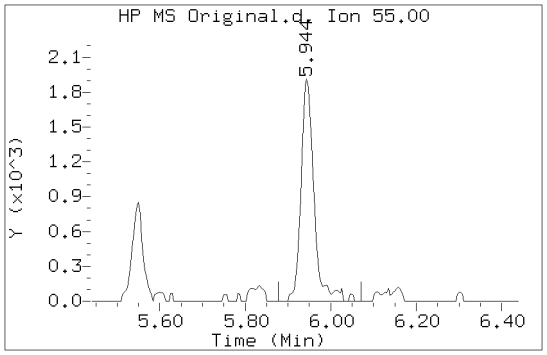


Ethyl Acrylate (140-88-5)

Reason Code:

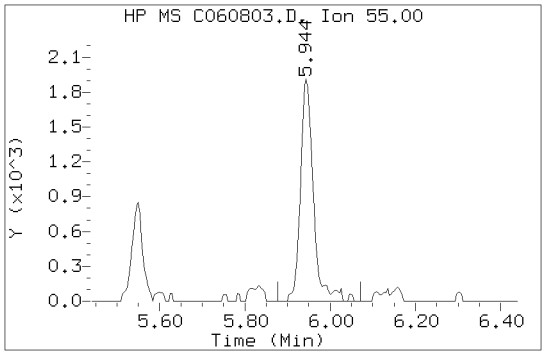
BEFORE

MASS
55
AREA
4141
HEIGHT
1914
21-Jun-2024
10:55
RUCHA
PATEL



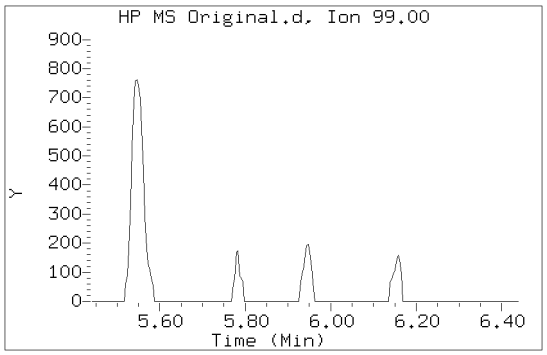
AFTER

MASS
55
AREA
4141
HEIGHT
1914
21-Jun-2024
10:55
RUCHA
PATEL



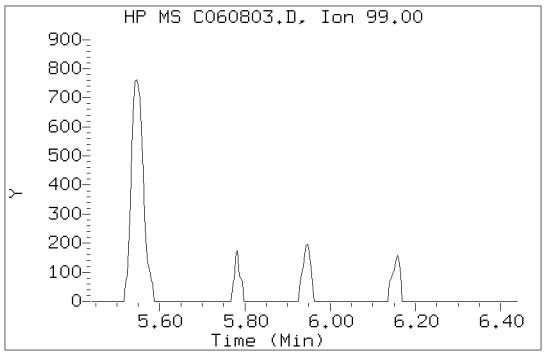
BEFORE

MASS
99
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
99
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



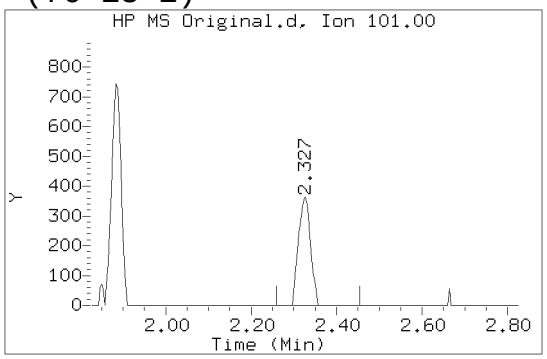
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240608.b\C060803.D
Inj Date : 08-JUN-2024 16:16
InstruID : VOA9.i
LabSampID : VSTD00.5

Freon TF (76-13-1)

Reason Code:

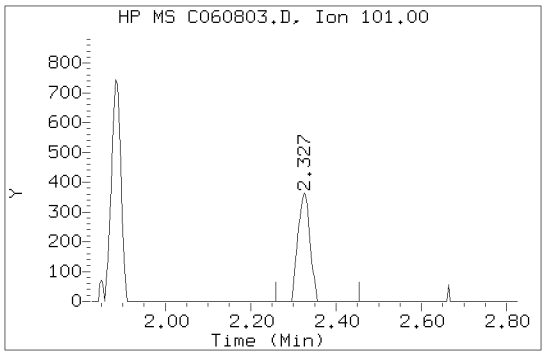
BEFORE

MASS
101
AREA
724
HEIGHT
364
21-Jun-2024
10:55
RUCHA
PATEL



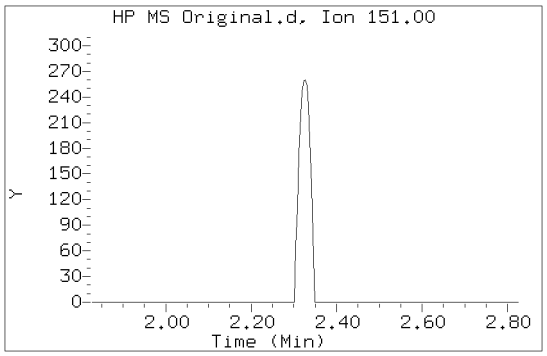
AFTER

MASS
101
AREA
724
HEIGHT
364
21-Jun-2024
10:55
RUCHA
PATEL



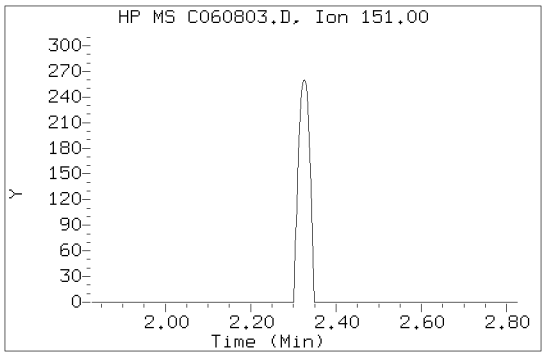
BEFORE

MASS
151
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
151
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL

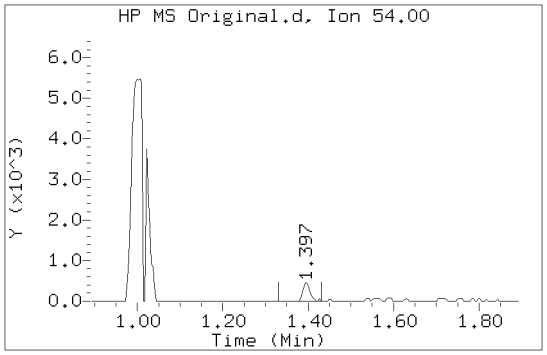


1,3-Butadiene (106-99-0)

Reason Code:

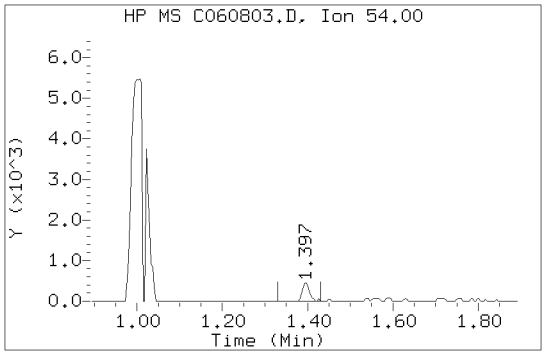
BEFORE

MASS
54
AREA
550
HEIGHT
458
21-Jun-2024
10:55
RUCHA
PATEL



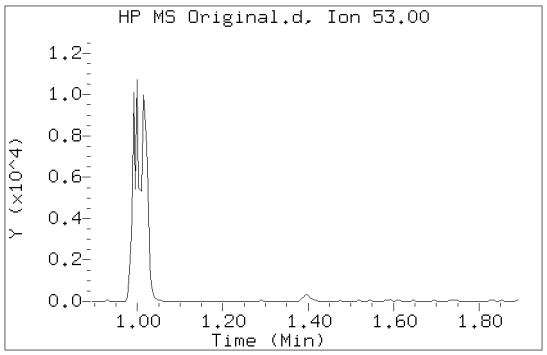
AFTER

MASS
54
AREA
550
HEIGHT
458
21-Jun-2024
10:55
RUCHA
PATEL



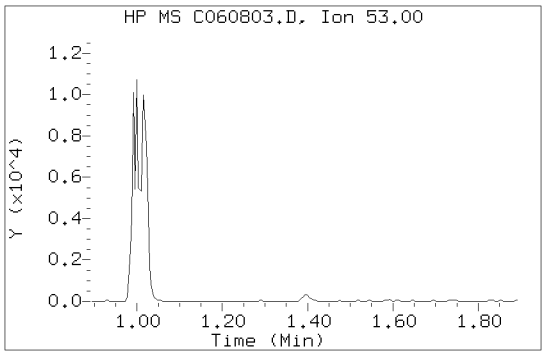
BEFORE

MASS
53
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
53
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL

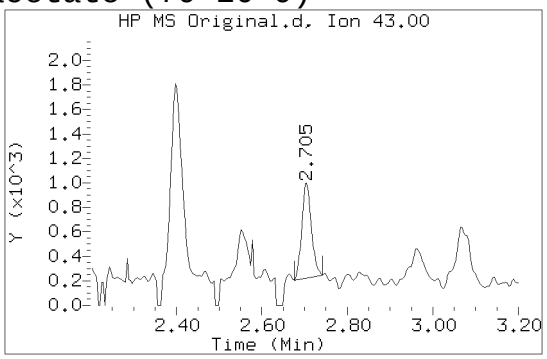


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240608.b\C060803.D
Inj Date : 08-JUN-2024 16:16
InstruID : VOA9.i
LabSampID : VSTD00.5

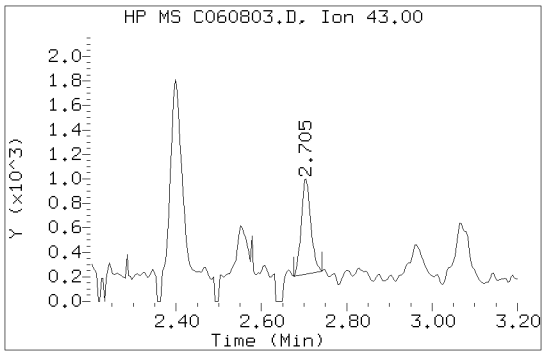
Methyl acetate (79-20-9)

Reason Code:

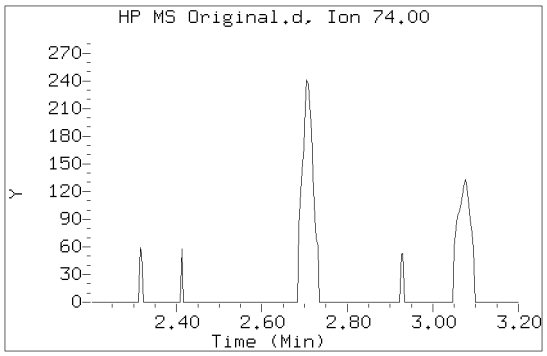
BEFORE
MASS
43
AREA
1240
HEIGHT
777
21-Jun-2024
10:55
RUCHA
PATEL



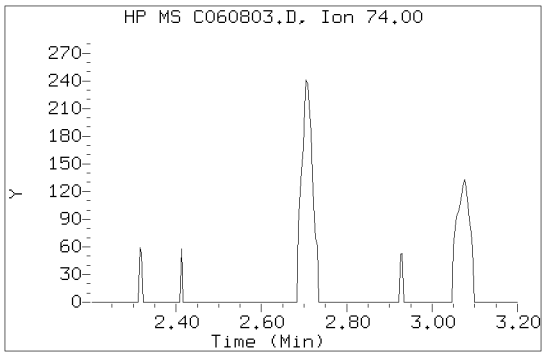
AFTER
MASS
43
AREA
1240
HEIGHT
777
21-Jun-2024
10:55
RUCHA
PATEL



BEFORE
MASS
74
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



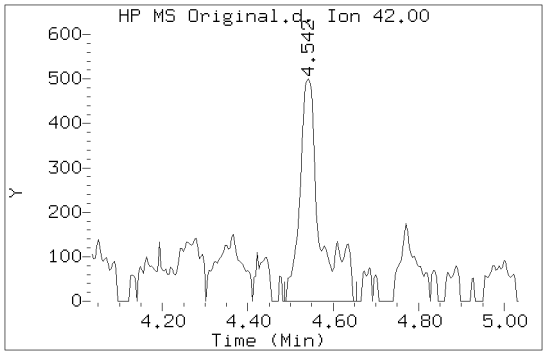
AFTER
MASS
74
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



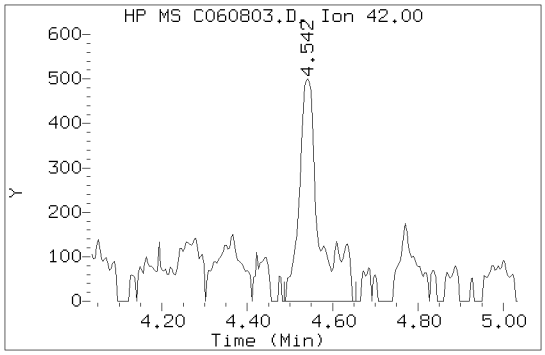
Tetrahydrofuran (109-99-9)

Reason Code:

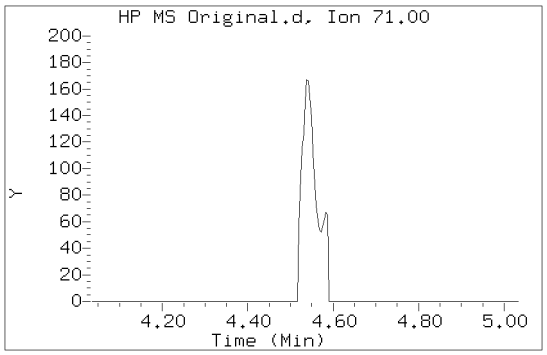
BEFORE
MASS
42
AREA
1698
HEIGHT
500
21-Jun-2024
10:55
RUCHA
PATEL



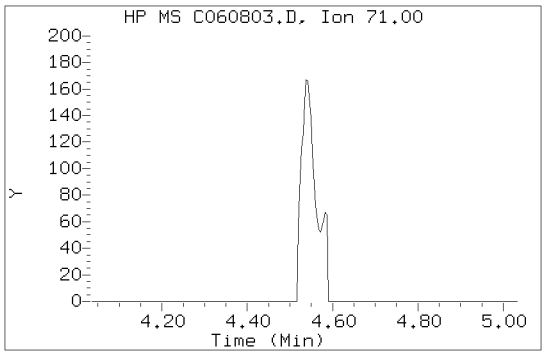
AFTER
MASS
42
AREA
1698
HEIGHT
500
21-Jun-2024
10:55
RUCHA
PATEL



BEFORE
MASS
71
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



AFTER
MASS
71
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



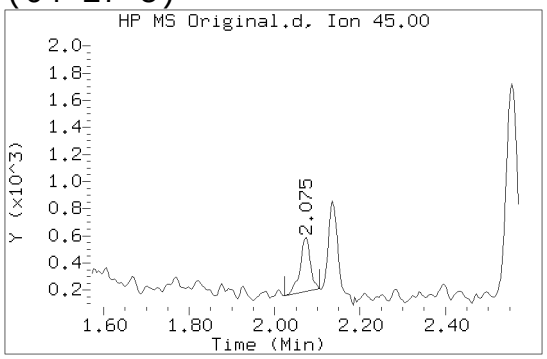
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Inj Date : 08-JUN-2024 16:16
InstruID : VOA9.i
LabSampID : VSTD00.5

Ethanol (64-17-5)

Reason Code:

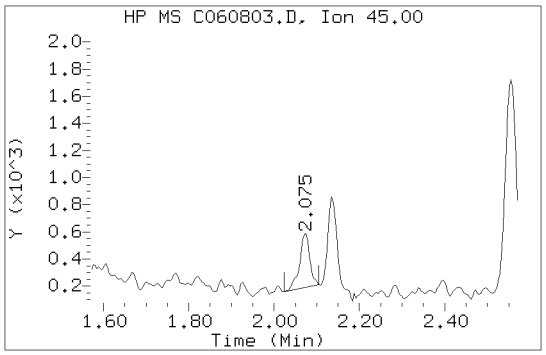
BEFORE

MASS
45
AREA
677
HEIGHT
395
21-Jun-2024
10:55
RUCHA
PATEL



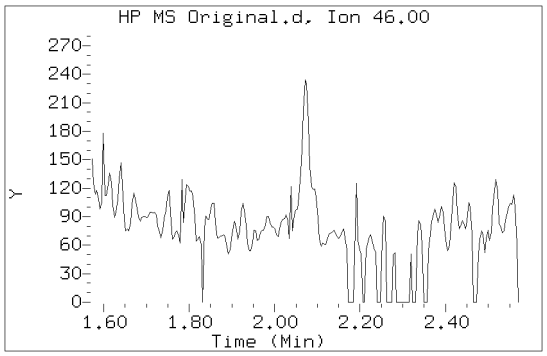
AFTER

MASS
45
AREA
677
HEIGHT
395
21-Jun-2024
10:55
RUCHA
PATEL



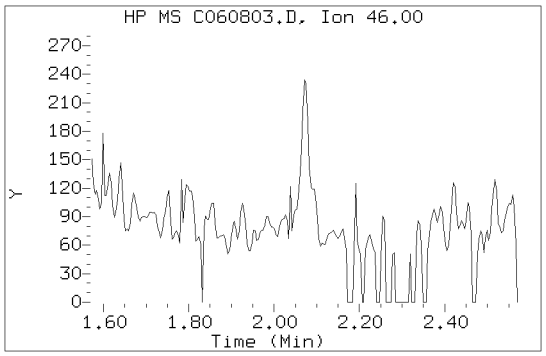
BEFORE

MASS
46
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



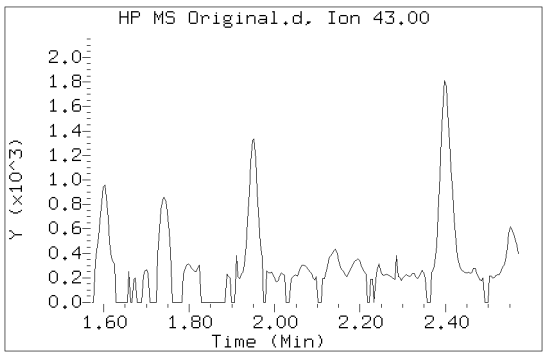
AFTER

MASS
46
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



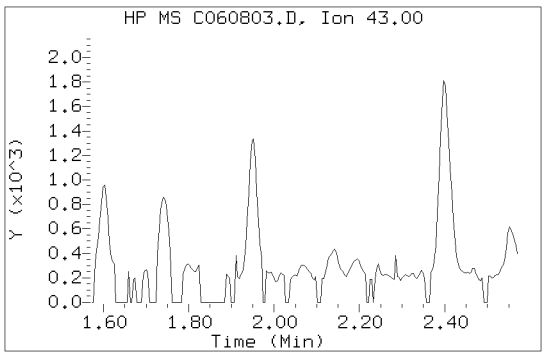
BEFORE

MASS
43
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
43
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL

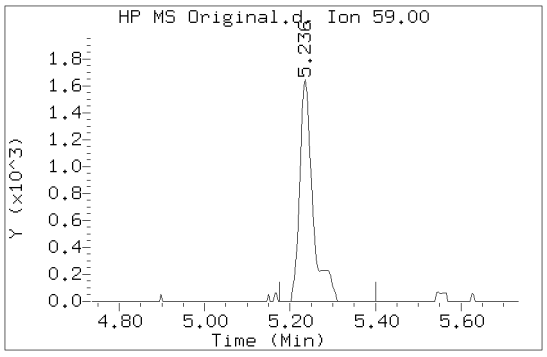


tert-Butyl formate (762-75-4)

Reason Code:

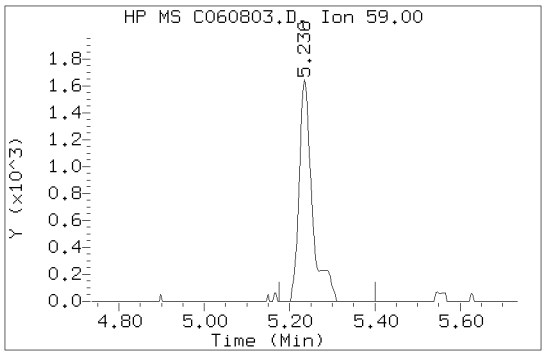
BEFORE

MASS
59
AREA
3591
HEIGHT
1645
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
59
AREA
3591
HEIGHT
1645
21-Jun-2024
10:55
RUCHA
PATEL



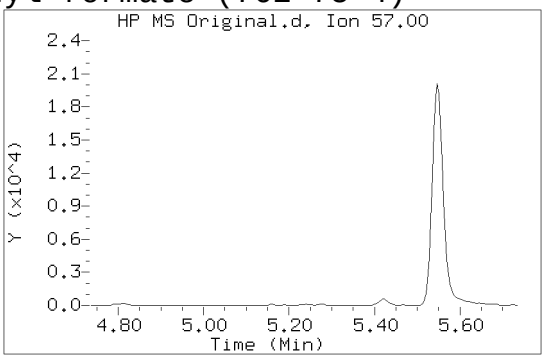
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Inj Date : 08-JUN-2024 16:16
InstruID : VOA9.i
LabSampID : VSTD00.5

tert-Butyl formate (762-75-4)

Reason Code:

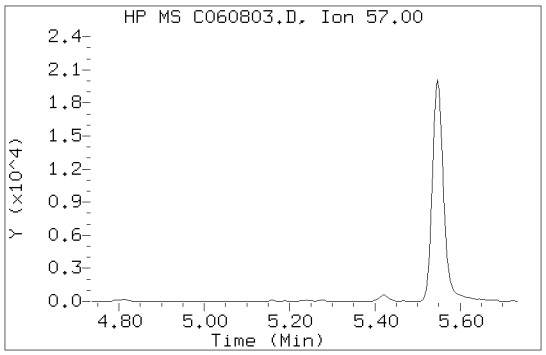
BEFORE

MASS
57
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



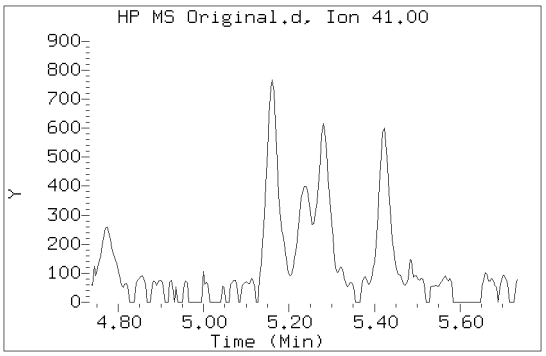
AFTER

MASS
57
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



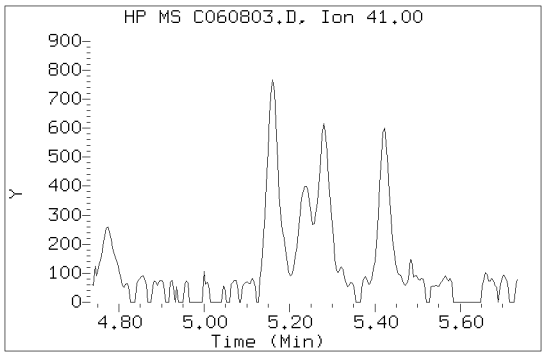
BEFORE

MASS
41
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
41
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL

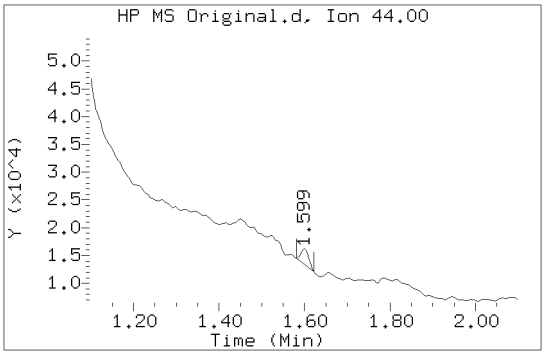


Ethylene oxide (75-21-8)

Reason Code:

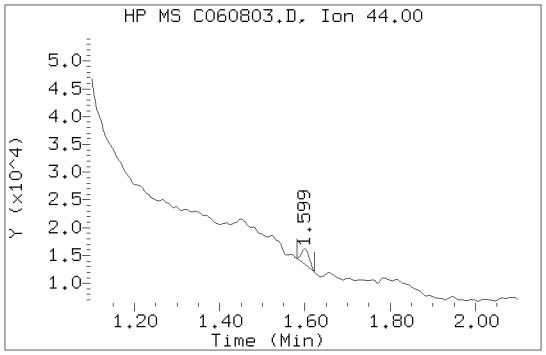
BEFORE

MASS
44
AREA
3551
HEIGHT
2759
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
44
AREA
3551
HEIGHT
2759
21-Jun-2024
10:55
RUCHA
PATEL

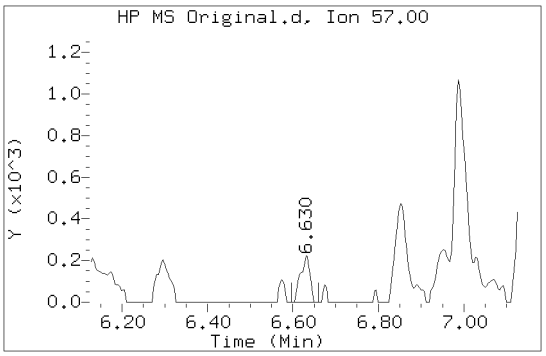


Epichlorohydrin (106-89-8)

Reason Code:

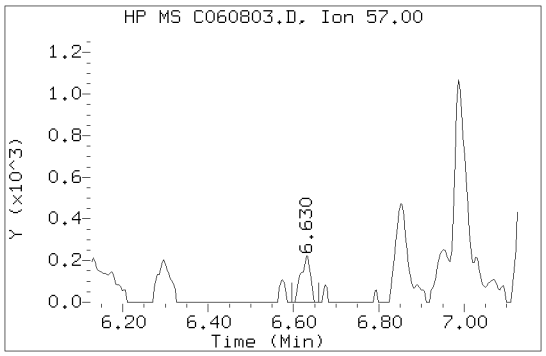
BEFORE

MASS
57
AREA
348
HEIGHT
222
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
57
AREA
348
HEIGHT
222
21-Jun-2024
10:55
RUCHA
PATEL

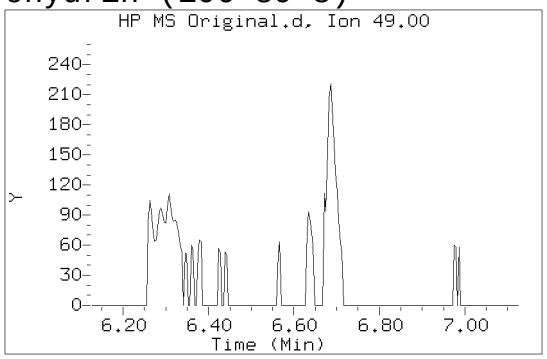


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240608.b\C060803.D
Inj Date : 08-JUN-2024 16:16
InstruID : VOA9.i
LabSampID : VSTD00.5

Epichlorohydrin (106-89-8)

BEFORE

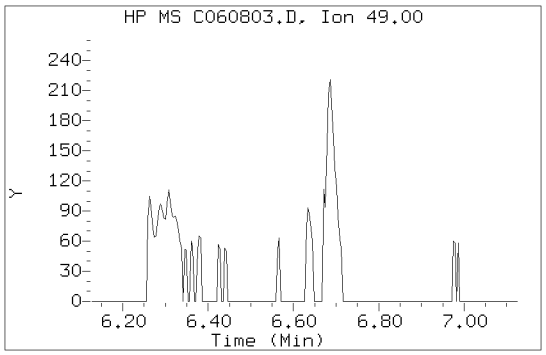
MASS
49
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
49
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL

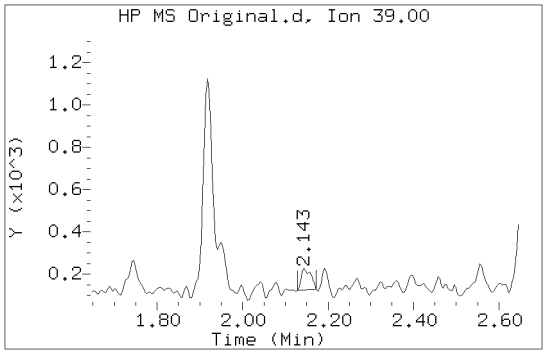
Reason Code:



Isoprene (78-79-5)

BEFORE

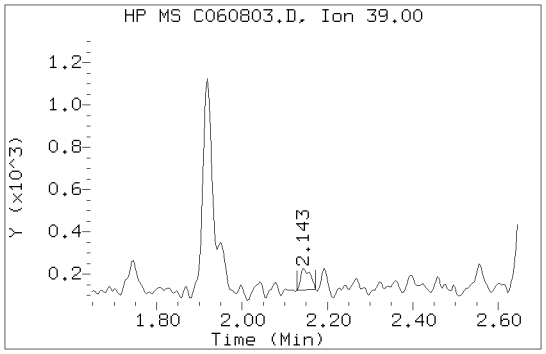
MASS
39
AREA
158
HEIGHT
102
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

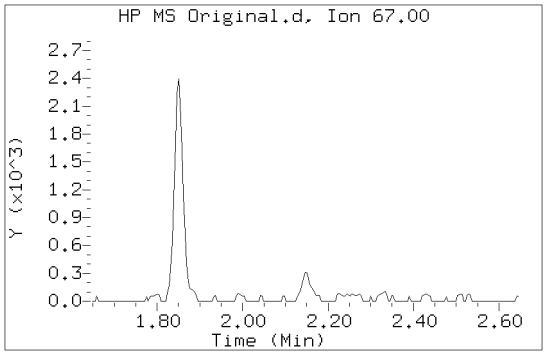
MASS
39
AREA
158
HEIGHT
102
21-Jun-2024
10:55
RUCHA
PATEL

Reason Code:



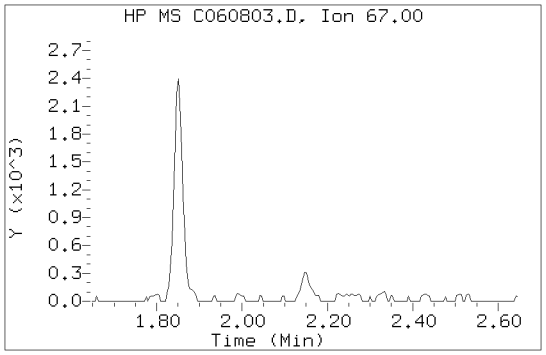
BEFORE

MASS
67
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



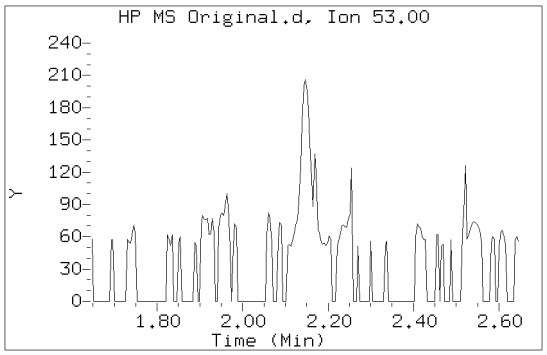
AFTER

MASS
67
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



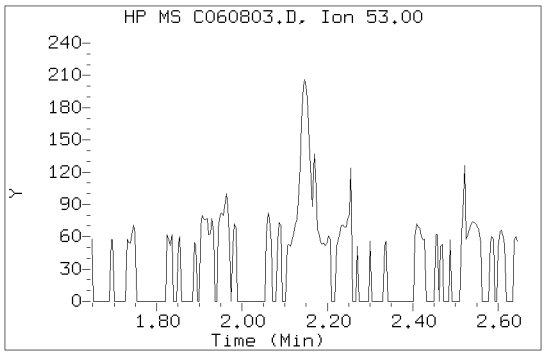
BEFORE

MASS
53
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
53
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



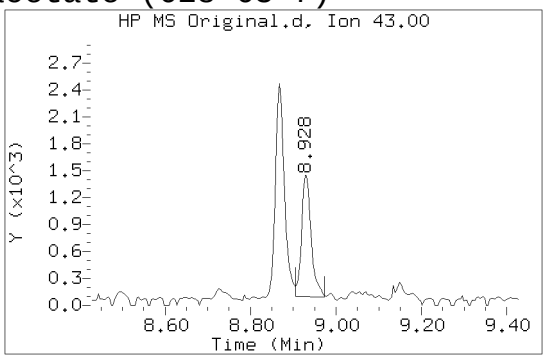
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240608.b\C060803.D
Inj Date : 08-JUN-2024 16:16
InstruID : VOA9.i
LabSampID : VSTD00.5

n-Amyl acetate (628-63-7)

Reason Code:

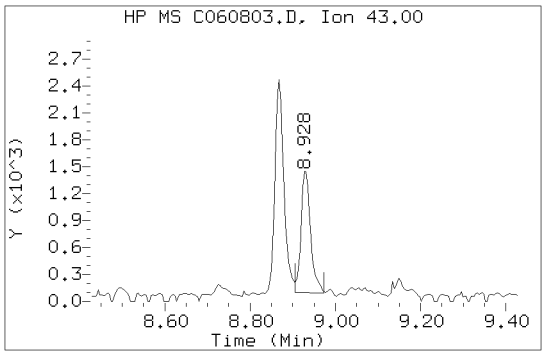
BEFORE

MASS
43
AREA
2156
HEIGHT
1349
21-Jun-2024
10:55
RUCHA
PATEL



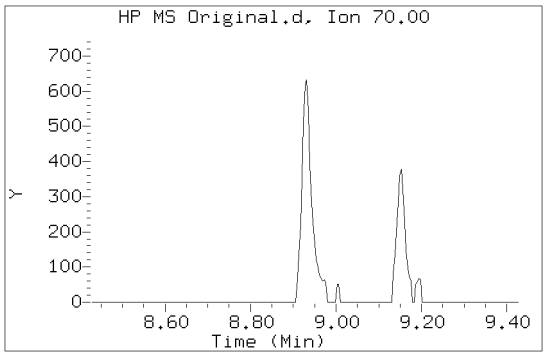
AFTER

MASS
43
AREA
2156
HEIGHT
1349
21-Jun-2024
10:55
RUCHA
PATEL



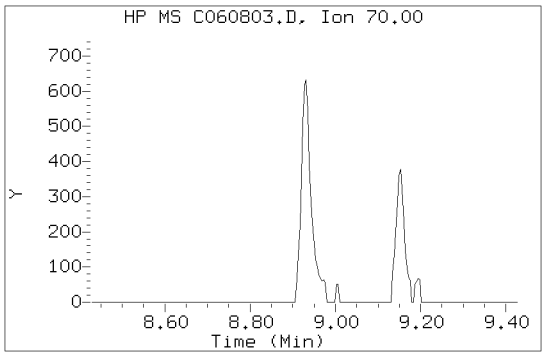
BEFORE

MASS
70
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



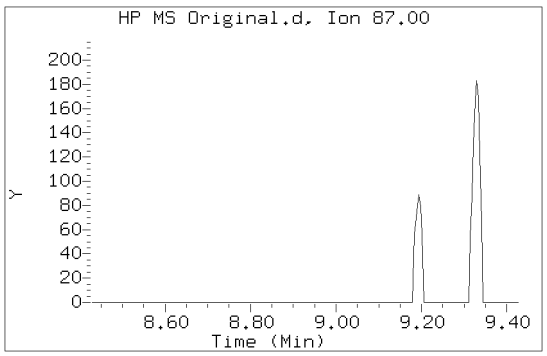
AFTER

MASS
70
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



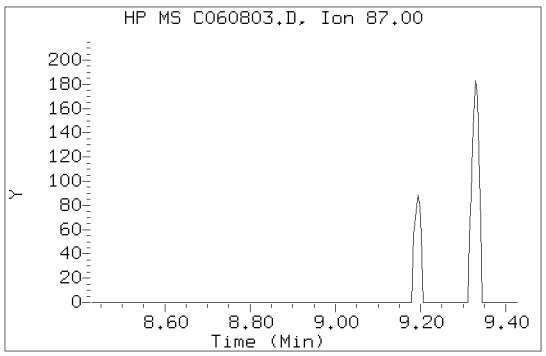
BEFORE

MASS
87
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
87
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL

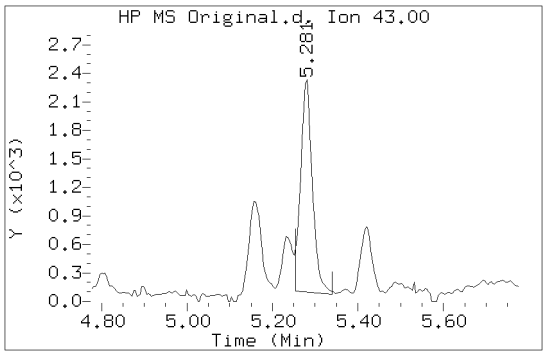


Isopropyl acetate (108-21-4)

Reason Code:

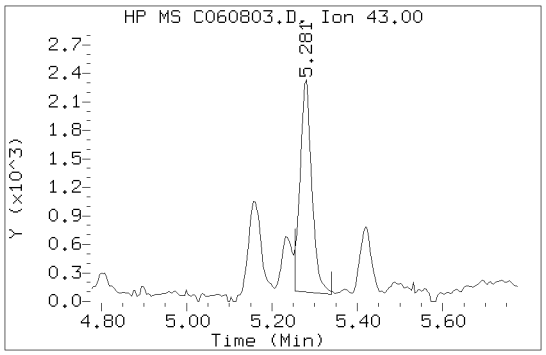
BEFORE

MASS
43
AREA
4363
HEIGHT
2234
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
43
AREA
4363
HEIGHT
2234
21-Jun-2024
10:55
RUCHA
PATEL



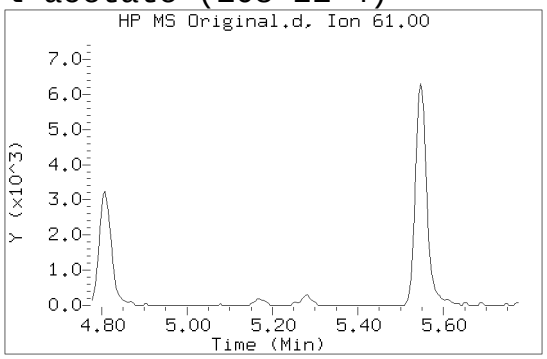
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240608.b\C060803.D
Inj Date : 08-JUN-2024 16:16
InstruID : VOA9.i
LabSampID : VSTD00.5

Isopropyl acetate (108-21-4)

Reason Code:

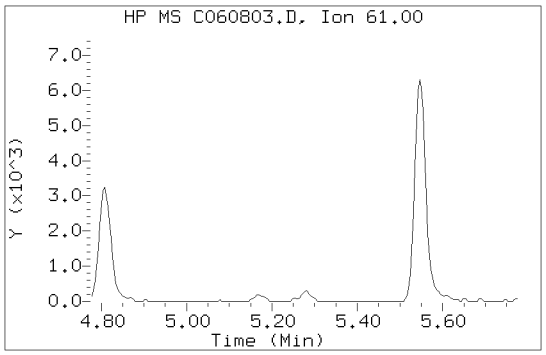
BEFORE

MASS
61
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
61
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL

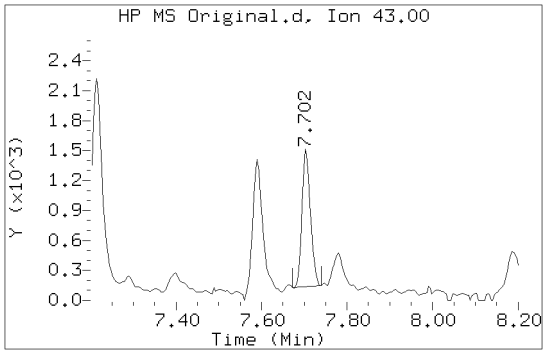


n-Butyl acetate (123-86-4)

Reason Code:

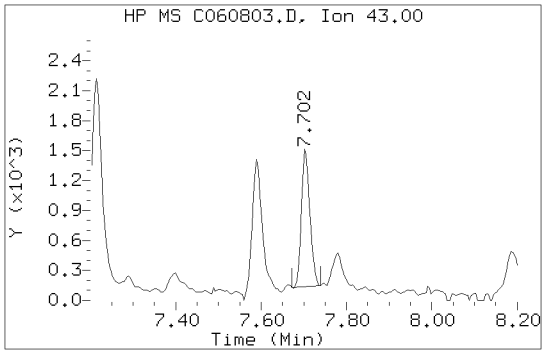
BEFORE

MASS
43
AREA
1939
HEIGHT
1377
21-Jun-2024
10:55
RUCHA
PATEL



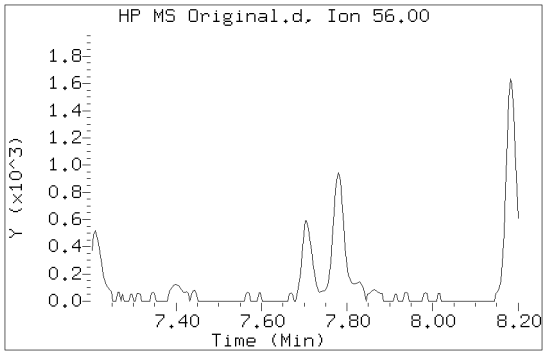
AFTER

MASS
43
AREA
1939
HEIGHT
1377
21-Jun-2024
10:55
RUCHA
PATEL



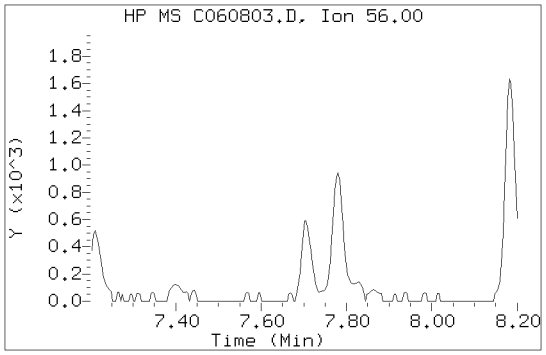
BEFORE

MASS
56
AREA
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HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



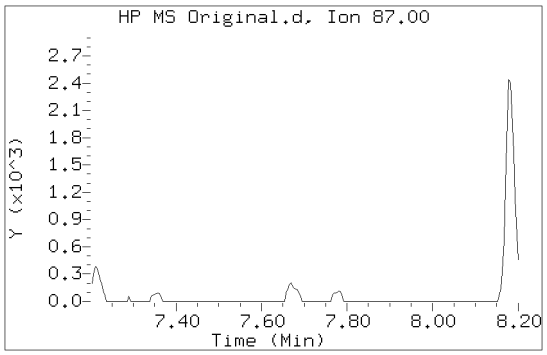
AFTER

MASS
56
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



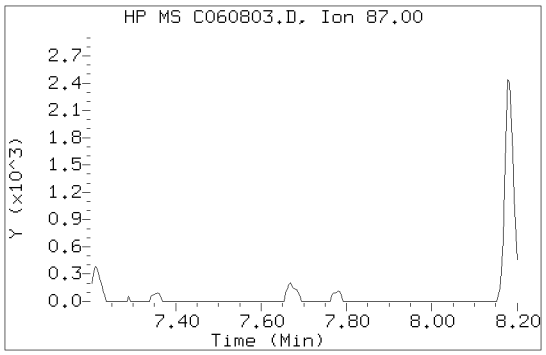
BEFORE

MASS
87
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
87
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL

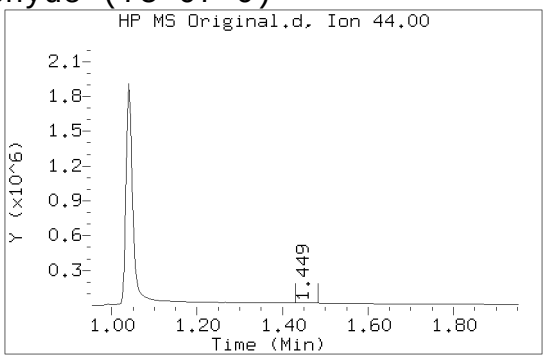


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Inj Date : 08-JUN-2024 16:16
InstruID : VOA9.i
LabSampID : VSTD00.5

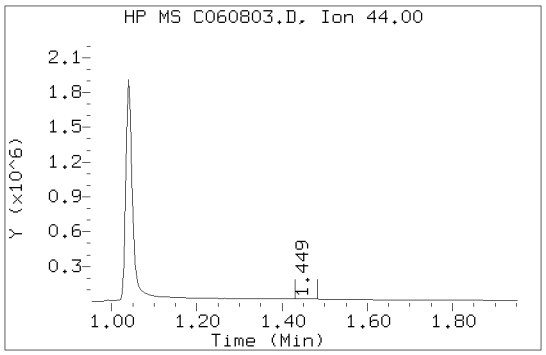
Acetaldehyde (75-07-0)

Reason Code:

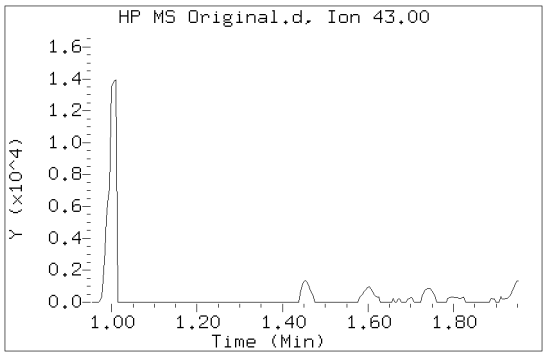
BEFORE
MASS
44
AREA
1318
HEIGHT
1073
21-Jun-2024
10:55
RUCHA
PATEL



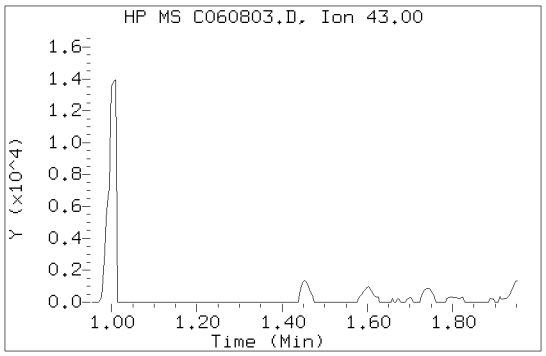
AFTER
MASS
44
AREA
1318
HEIGHT
1073
21-Jun-2024
10:55
RUCHA
PATEL



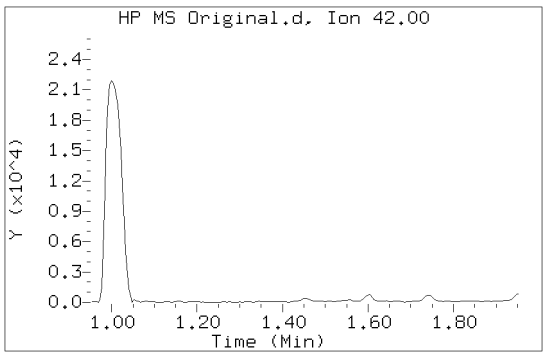
BEFORE
MASS
43
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



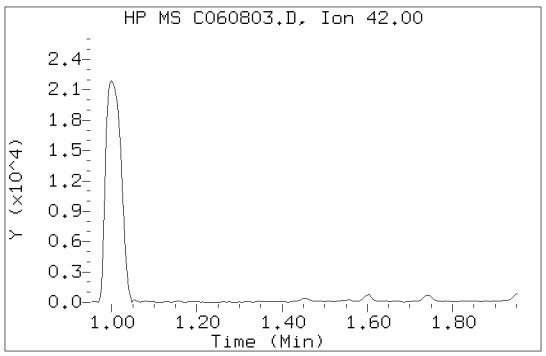
AFTER
MASS
43
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



BEFORE
MASS
42
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



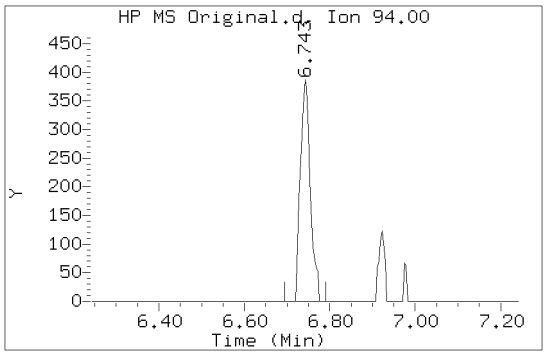
AFTER
MASS
42
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



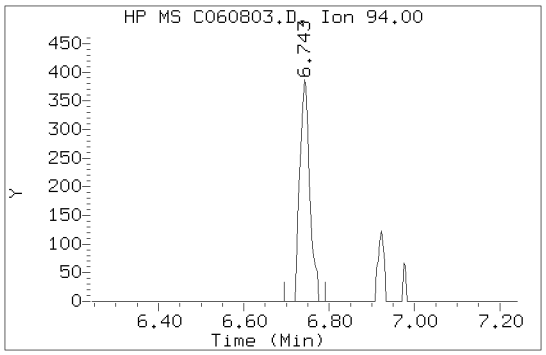
Dimethyl Disulfide (624-92-0)

Reason Code:

BEFORE
MASS
94
AREA
638
HEIGHT
387
21-Jun-2024
10:55
RUCHA
PATEL



AFTER
MASS
94
AREA
638
HEIGHT
387
21-Jun-2024
10:55
RUCHA
PATEL



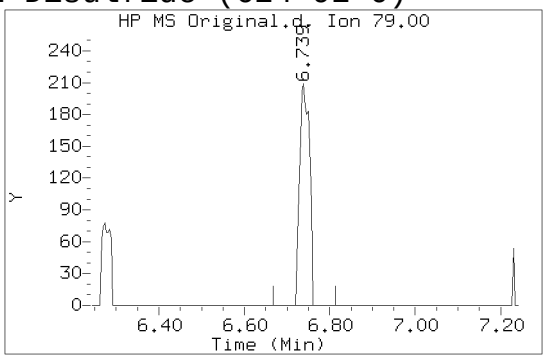
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240608.b\C060803.D
Inj Date : 08-JUN-2024 16:16
InstruID : VOA9.i
LabSampID : VSTD00.5

Dimethyl Disulfide (624-92-0)

Reason Code:

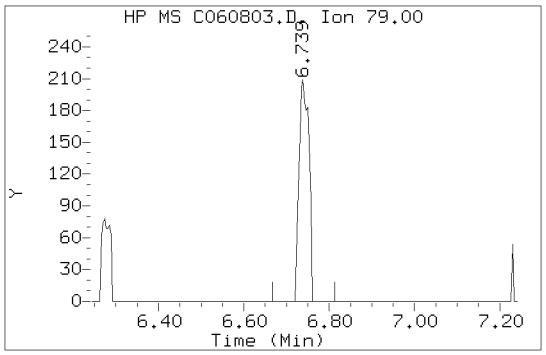
BEFORE

MASS
79
AREA
344
HEIGHT
209
21-Jun-2024
10:55
RUCHA
PATEL



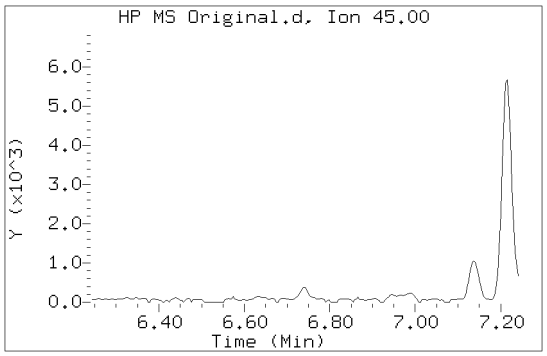
AFTER

MASS
79
AREA
344
HEIGHT
209
21-Jun-2024
10:55
RUCHA
PATEL



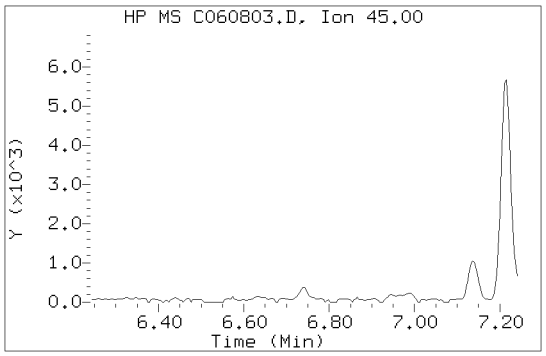
BEFORE

MASS
45
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
45
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL

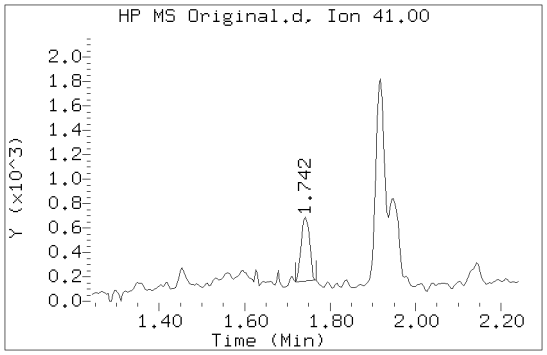


Isobutylene (115-11-7)

Reason Code:

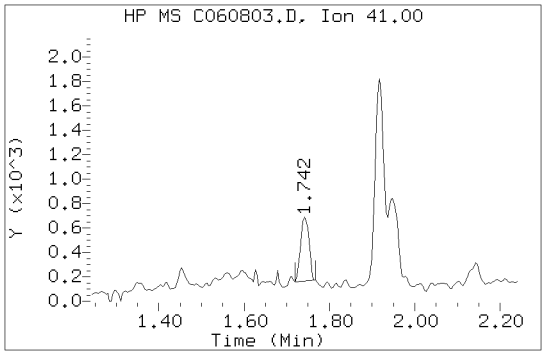
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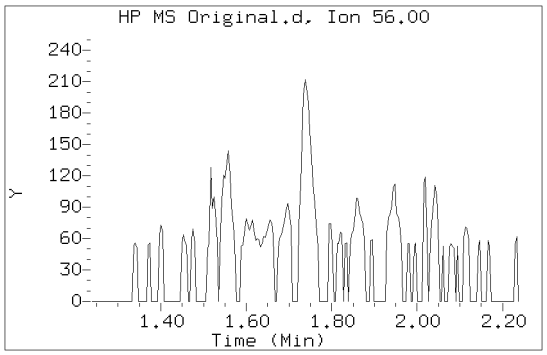
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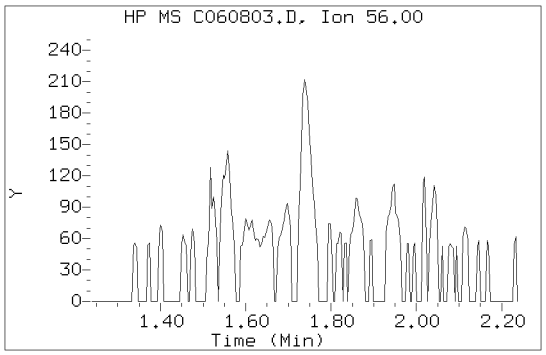
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AFTER

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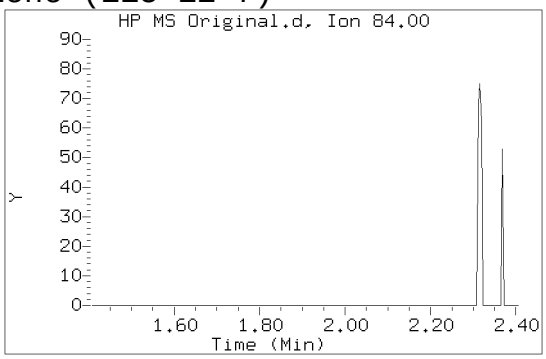
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Inj Date : 08-JUN-2024 16:16
InstruID : VOA9.i
LabSampID : VSTD00.5

Isobutylene (115-11-7)

Reason Code:

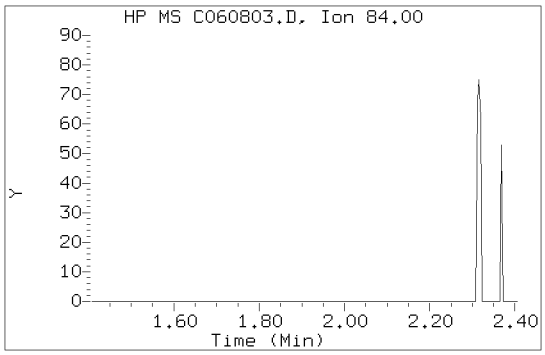
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AFTER

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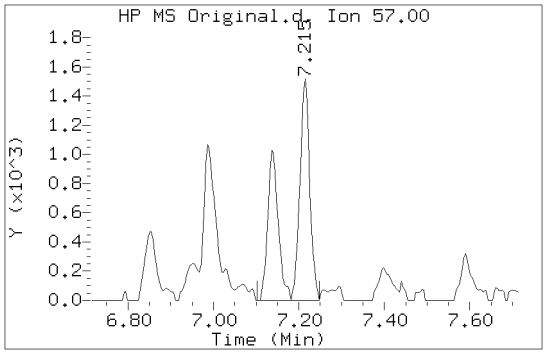


sec-Butyl Ether (6863-58-7)

Reason Code:

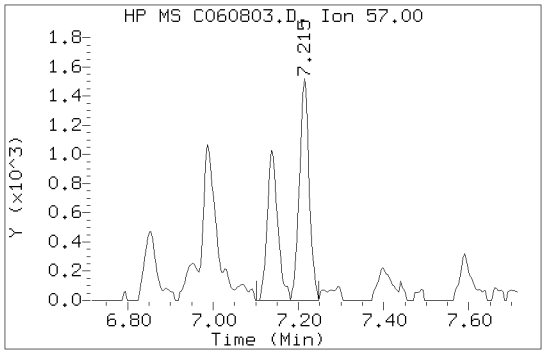
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AFTER

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Data File: \\NAHSTWS005\Target\chem\voa9.i\U240608.b\C060804.D Page 1
Report Date: 21-Jun-2024 10:56

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240608.b\C060804.D
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Inj Date : 08-JUN-2024 16:37
Operator : TS Inst ID: VOA9.i
Smp Info : VSTD001;VSTD001;1;3
Misc Info : V9;WATER;0;1;
Comment   :
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Cal Date : 08-JUN-2024 16:16 Cal File: C060803.D
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.815	4.815	(1.000)	276261	50.0000	
2	Dichlorodifluoromethane	85	1.168	1.168	(0.243)	1300	1.00000	0.35(aQ)
3	Chloromethane	50	1.299	1.299	(0.270)	7086	1.00000	0.82
4	Propionitrile	54	4.339	4.339	(0.901)	4553	10.0000	9.38(a)
5	Vinyl Chloride	62	1.382	1.382	(0.287)	2408	1.00000	0.37(a)
6	Bromomethane	94	1.625	1.625	(0.338)	2080	1.00000	0.23(a)
7	Chloroethane	64	1.704	1.704	(0.354)	1948	1.00000	0.59
8	Trichlorofluoromethane	101	1.899	1.899	(0.394)	2373	1.00000	0.87(Q)
9	Acrolein	56	2.259	2.259	(0.469)	535	2.00000	3.87(aQM)
10	Acetone	43	2.409	2.409	(0.500)	5961	2.00000	3.42(M)
11	1,1-Dichloroethene	96	2.334	2.334	(0.485)	1684	1.00000	0.98
12	Isobutyl Alcohol	43	5.284	5.284	(1.097)	7552	20.0000	12.36(a)
13	Acetonitrile	39	2.675	2.675	(0.556)	2898	10.0000	10.54(a)
14	Allyl Chloride	41	2.675	2.675	(0.556)	7177	1.00000	0.89(a)
15	Iodomethane	142	2.469	2.469	(0.513)	1593	2.00000	3.14(TQ)
16	Acrylonitrile	53	3.065	3.065	(0.636)	2148	2.00000	0.92
17	Methylene Chloride	84	2.795	2.795	(0.580)	3211	1.00000	0.34(a)
18	Methyl tert-butyl ether	73	3.080	3.080	(0.640)	7024	1.00000	0.78
19	Carbon Disulfide	76	2.521	2.521	(0.524)	9266	2.00000	1.82
20	trans-1,2-Dichloroethene	96	3.065	3.065	(0.636)	2009	1.00000	0.47(aQ)

21 Vinyl Acetate	43	4.343	4.343 (0.902)	3356	2.00000	2.04(M)
22 1,1-Dichloroethane	63	3.515	3.515 (0.730)	4429	1.00000	0.65

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240608.b\C060804.D Page 2
Report Date: 21-Jun-2024 10:56

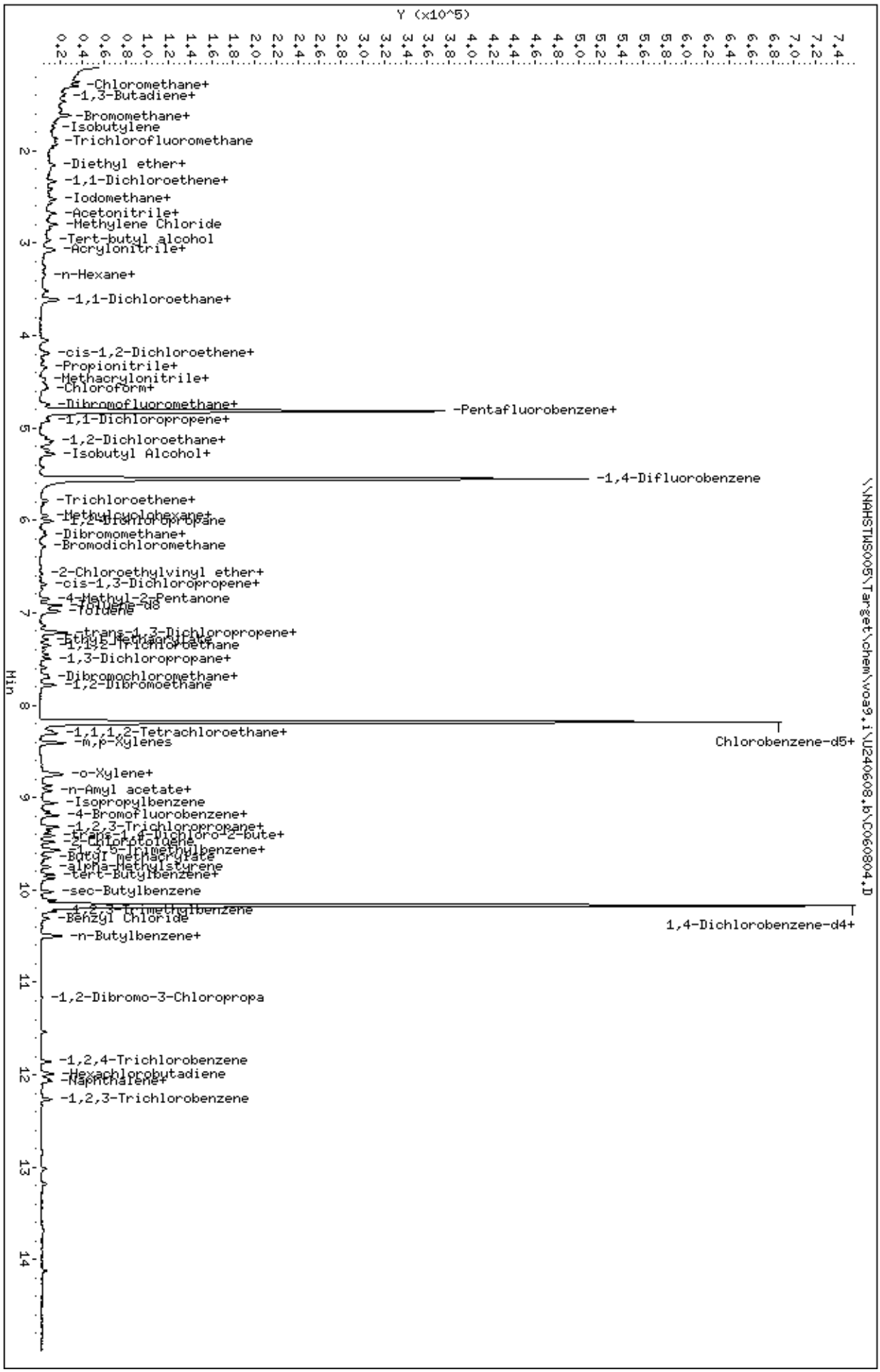
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	3.612	3.612	(0.750)	2935	1.00000	0.96(a)
	24 2-Butanone	43	4.272	4.272	(0.887)	4496	2.00000	1.83
	25 Methacrylonitrile	41	4.497	4.497	(0.934)	1957	1.00000	1.00(a)
	26 2,2-Dichloropropane	77	4.186	4.186	(0.869)	2619	1.00000	0.97(M)
	27 cis-1,2-Dichloroethene	96	4.197	4.197	(0.872)	2675	1.00000	0.62
	28 Chloroform	83	4.572	4.572	(0.949)	4295	1.00000	0.65
	29 Bromochloromethane	128	4.470	4.470	(0.928)	1398	1.00000	0.73
$	30 Dibromofluoromethane	113	4.744	4.744	(0.985)	3233	1.00000	0.87
	31 1,1,1-Trichloroethane	97	4.744	4.744	(0.985)	2336	1.00000	0.84
	32 1,1-Dichloropropene	75	4.917	4.917	(0.886)	2322	1.00000	0.77
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	3762	1.00000	0.55(Q)
	34 Carbon Tetrachloride	117	4.905	4.905	(0.884)	1998	1.00000	0.89
$	35 1,2-Dichloroethane-d4	65	5.093	5.093	(1.058)	4396	1.00000	0.68
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	405605	50.0000	
	37 Benzene	78	5.138	5.138	(0.926)	9797	1.00000	0.79
	38 Trichloroethene	130	5.786	5.786	(1.043)	2304	1.00000	1.11(a)
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	2575	1.00000	1.05(aM)
	40 Methyl Methacrylate	41	5.831	5.831	(1.211)	1156	1.00000	0.87(aQ)
	41 2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	765	2.00000	5.85(QM)
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	2716	1.00000	0.89(aQ)
	43 2-Nitropropane	43	6.506	6.506	(1.351)	426	1.00000	1.63(aQM)
	44 Dibromomethane	93	6.120	6.120	(1.103)	1465	1.00000	0.84(a)
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	5437	2.00000	2.59(a)
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	2788	1.00000	0.92(a)
*	47 Chlorobenzene-d5	117	8.182	8.182	(1.000)	360866	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.846)	11836	1.00000	1.21(a)
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	3256	1.00000	1.44(a)
	50 Toluene	91	6.978	6.978	(0.853)	9443	1.00000	0.96(a)
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	2238	1.00000	0.92(a)
	52 2-Hexanone	43	7.214	7.214	(0.882)	5740	2.00000	1.06(aQ)
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	2156	1.00000	0.97(a)
	54 1,3-Dichloropropane	76	7.496	7.496	(0.916)	4418	1.00000	1.02(a)
	55 Dibromochloromethane	129	7.691	7.691	(0.940)	1599	1.00000	0.91(a)
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	1614	1.00000	0.99(a)
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	2088	1.00000	1.22(a)
	58 1-Chlorohexane	55	8.185	8.185	(1.475)	4765	1.00000	1.06(aQ)
	59 Chlorobenzene	112	8.208	8.208	(1.003)	6818	1.00000	0.88(a)
	60 1,1,1,2-Tetrachloroethane	131	8.279	8.279	(1.012)	1863	1.00000	1.71(aQ)
	61 Ethylbenzene	106	8.305	8.305	(1.015)	2922	1.00000	1.05(a)
	62 m,p-Xylenes	106	8.407	8.407	(1.027)	6945	2.00000	2.01(a)
	63 o-Xylene	106	8.744	8.744	(1.069)	3569	1.00000	1.05(a)
	64 Styrene	104	8.763	8.763	(1.071)	5451	1.00000	1.01(a)
	66 Bromoform	173	8.916	8.916	(1.090)	985	1.00000	2.09(aQM)
	67 Isopropylbenzene	105	9.059	9.059	(1.107)	7633	1.00000	0.94(a)
	68 1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	3597	1.00000	0.94(aQM)
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.124)	4954	1.00000	1.10(a)
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	189379	50.0000	
	71 1,2,3-Trichloropropane	75	9.359	9.359	(0.920)	2905	1.00000	0.59(a)
	72 trans-1,4-Dichloro-2-butene	53	9.374	9.374	(1.146)	815	1.00000	0.98(aQ)
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	9040	1.00000	0.98(a)
	74 Bromobenzene	156	9.317	9.317	(0.916)	2721	1.00000	1.03(a)
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	5566	1.00000	1.34(a)

76	2-Chlorotoluene	91	9.479	9.479 (0.932)	7008	1.00000	1.14(a)
77	4-Chlorotoluene	91	9.576	9.576 (0.942)	7746	1.00000	1.11(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	5005	1.00000	0.92(a)
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	6972	1.00000	1.07(a)
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	6836	1.00000	0.93(a)
82	p-Isopropyltoluene	119	10.142	10.142	(0.997)	6015	1.00000	0.95(a)
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	5026	1.00000	0.77(a)
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	5461	1.00000	0.97(aQ)
86	Benzyl Chloride	91	10.311	10.311	(1.260)	4813	1.00000	1.46(a)
87	n-Butylbenzene	91	10.491	10.491	(1.032)	6275	1.00000	1.08(a)
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	5128	1.00000	0.97(a)
89	1,2-Dibromo-3-Chloropropane	155	11.166	11.166	(1.098)	329	1.00000	1.44(aQM)
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	3088	1.00000	1.13(a)
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	1636	1.00000	1.73(a)
92	Naphthalene	128	12.069	12.069	(1.187)	6560	1.00000	1.27(a)
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	2879	1.00000	1.11(a)
146	Methyl acetate	43	2.716	2.716	(0.564)	2509	1.00000	0.55(aM)
138	Freon TF	101	2.337	2.337	(0.485)	1249	1.00000	0.79(a)
141	Cyclohexane	56	4.815	4.815	(1.000)	6721	1.00000	0.48(aQ)
142	Tetrahydrofuran	42	4.545	4.545	(0.944)	2345	2.00000	3.93(aQM)
147	Methylcyclohexane	55	5.944	5.944	(1.071)	4860	1.00000	1.44(a)
135	1,4-Dioxane	88	6.172	6.172	(1.282)	1051	20.0000	11.14(a)
132	n-Butanol	56	5.824	5.824	(1.209)	1556	20.0000	26.66(a)
136	n-Hexane	57	3.350	3.350	(0.696)	1419	1.00000	0.79(TaQ)
139	Diethyl ether	59	2.146	2.146	(0.446)	2012	1.00000	0.67(aQ)
148	Tert-butyl alcohol	59	2.971	2.971	(0.617)	6211	20.0000	11.10
149	Isopropyl alcohol	45	2.566	2.566	(0.533)	4445	20.0000	8.85(TQ)
156	Diisopropyl ether	45	3.619	3.619	(0.752)	8398	1.00000	0.89(Ta)
162	Butyl acrylate	55	8.733	8.733	(1.067)	4554	1.00000	1.20(aQ)
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	8911	1.00000	0.61(a)
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	6258	1.00000	1.53(a)
167	Ethanol	45	2.083	2.083	(0.433)	782	20.0000	20.51(QM)
172	tert-Butyl formate	59	5.239	5.239	(1.088)	5060	2.00000	1.15(aM)
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	13607	20.0000	25.76
140	1,3-Butadiene	54	1.404	1.404	(0.292)	964	1.00000	0.92(a)
182	Epichlorohydrin	57	6.633	6.633	(1.195)	595	4.00000	5.88(M)
M 94	1,2-Dichloroethylene (total)	96				4684	2.00000	(a)
130	Ethyl Acetate	43	4.534	4.534	(0.942)	1657	1.00000	0.29(aM)
131	Methyl Acrylate	55	4.373	4.373	(0.908)	3480	1.00000	1.51(aM)
189	n-Butyl acetate	43	7.706	7.706	(0.942)	3739	1.00000	1.15(aQM)
134	Cyclohexanone	55	9.153	9.153	(0.900)	3069	20.0000	40.37(aQ)
185	Isoprene	39	2.161	2.161	(0.449)	385	1.00000	0.70(aQM)
188	Isopropyl acetate	43	5.284	5.284	(0.952)	7552	1.00000	0.78(a)
150	Allyl alcohol	57	3.350	3.350	(0.696)	1419	20.0000	15.88
194	Acetaldehyde	44	1.464	1.464	(0.304)	2445	4.00000	0.92(aQM)
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	1002	1.00000	1.87(aQM)
202	Isobutylene	41	1.753	1.753	(0.364)	574	1.00000	1.18(aM)
133	Ethyl Acrylate	55	5.944	5.944	(1.234)	5055	1.00000	1.23(aM)
178	Ethylene oxide	44	1.610	1.610	(0.334)	9170	2.00000	6.10(M)
203	2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	3052	1.00000	2.08(a)
204	Tetrahydrothiophene	60	7.672	7.672	(0.938)	2483	1.00000	1.34(aA)
205	sec-Butyl Ether	57	7.214	7.214	(0.882)	5368	1.00000	1.37(aAM)
187	n-Amyl acetate	43	8.928	8.928	(1.091)	4654	1.00000	0.75(aQM)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.



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Client ID: VSTD001
Sample Info: VSTD001;VSTD0011;1;3
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Column phase: DB624

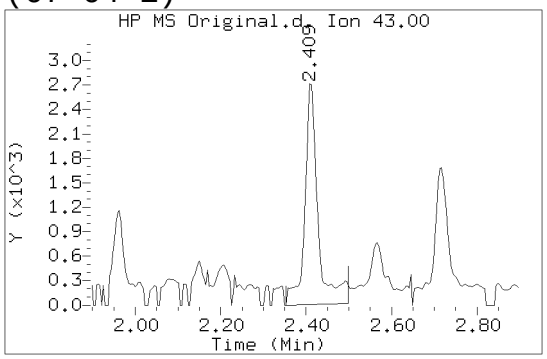
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Operator: TS
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Inj Date : 08-JUN-2024 16:37
InstruID : VOA9.i
LabSampID : VSTD001

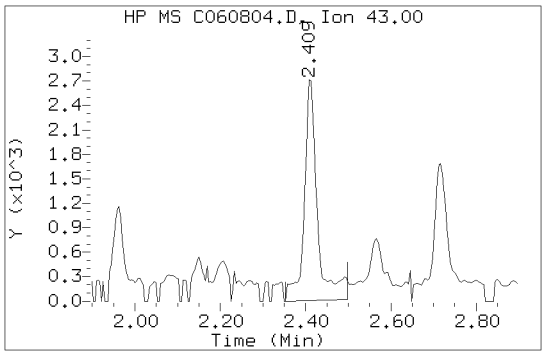
Acetone (67-64-1)

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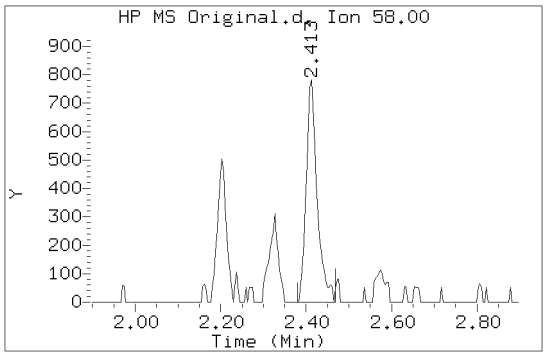
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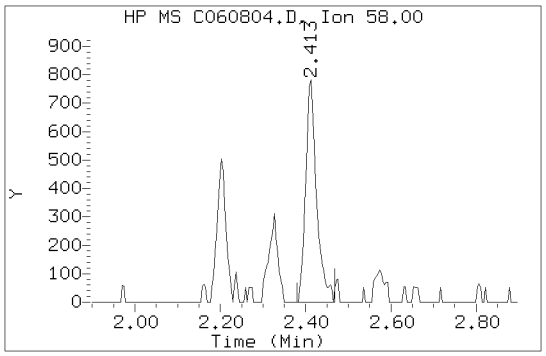
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10:55
RUCHA
PATEL



BEFORE
MASS
58
AREA
1431
HEIGHT
782
21-Jun-2024
10:55
RUCHA
PATEL



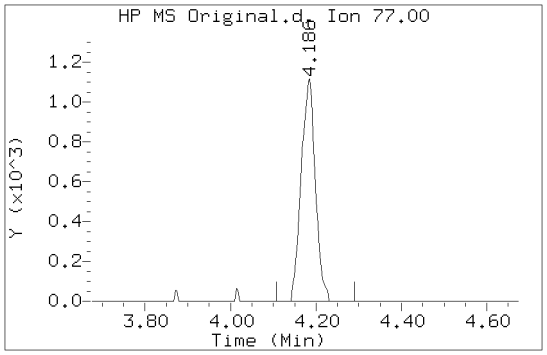
AFTER
MASS
58
AREA
1431
HEIGHT
782
21-Jun-2024
10:55
RUCHA
PATEL



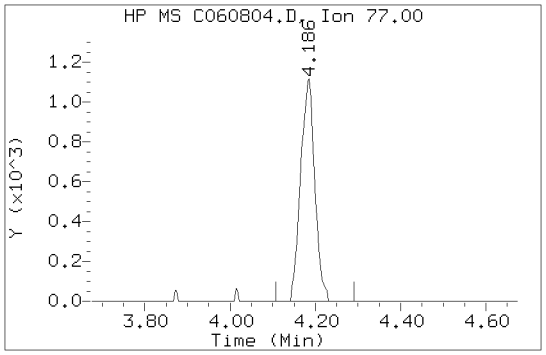
2,2-Dichloropropane (594-20-7)

Reason Code:

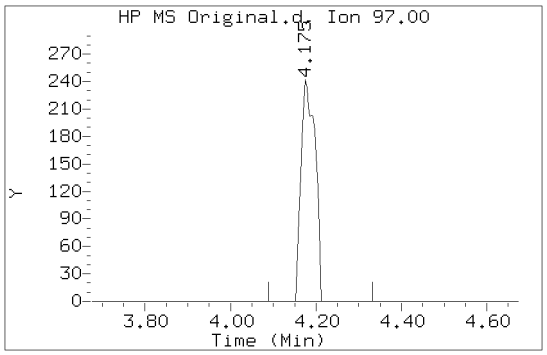
BEFORE
MASS
77
AREA
2619
HEIGHT
1116
21-Jun-2024
10:55
RUCHA
PATEL



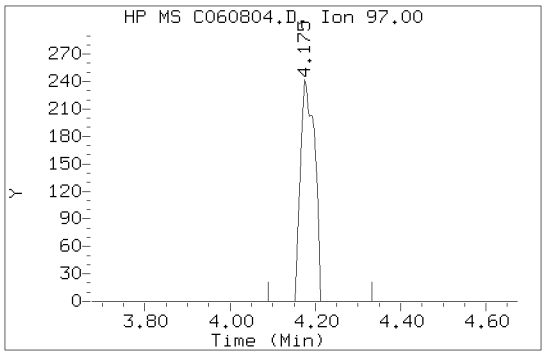
AFTER
MASS
77
AREA
2619
HEIGHT
1116
21-Jun-2024
10:55
RUCHA
PATEL



BEFORE
MASS
97
AREA
566
HEIGHT
242
21-Jun-2024
10:55
RUCHA
PATEL



AFTER
MASS
97
AREA
566
HEIGHT
242
21-Jun-2024
10:55
RUCHA
PATEL



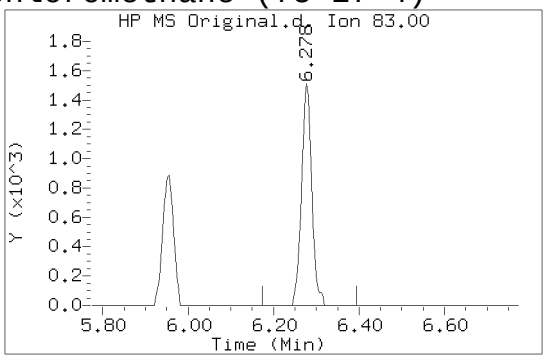
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240608.b\C060804.D
Inj Date : 08-JUN-2024 16:37
InstruID : VOA9.i
LabSampID : VSTD001

Bromodichloromethane (75-27-4)

Reason Code:

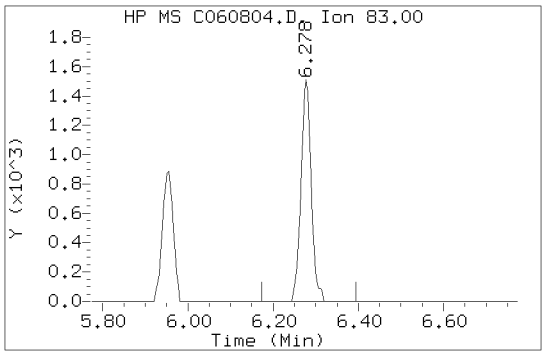
BEFORE

MASS
83
AREA
2575
HEIGHT
1511
21-Jun-2024
10:55
RUCHA
PATEL



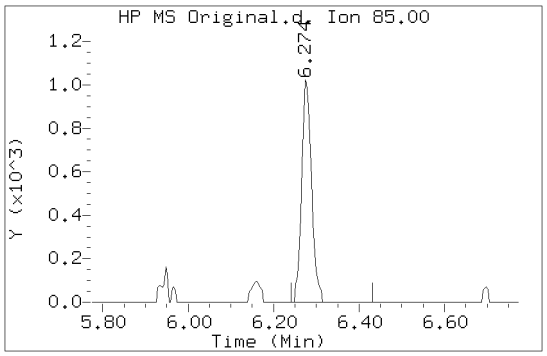
AFTER

MASS
83
AREA
2575
HEIGHT
1511
21-Jun-2024
10:55
RUCHA
PATEL



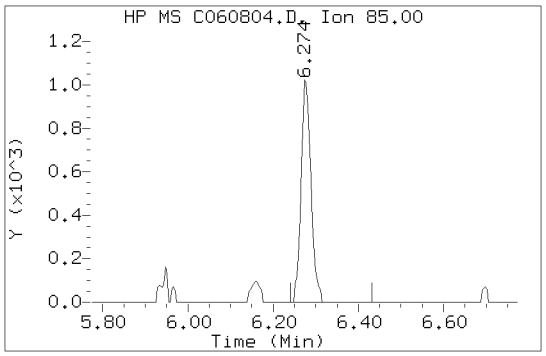
BEFORE

MASS
85
AREA
1693
HEIGHT
1023
21-Jun-2024
10:55
RUCHA
PATEL



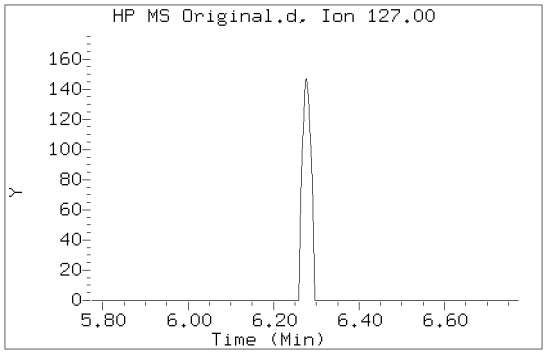
AFTER

MASS
85
AREA
1693
HEIGHT
1023
21-Jun-2024
10:55
RUCHA
PATEL



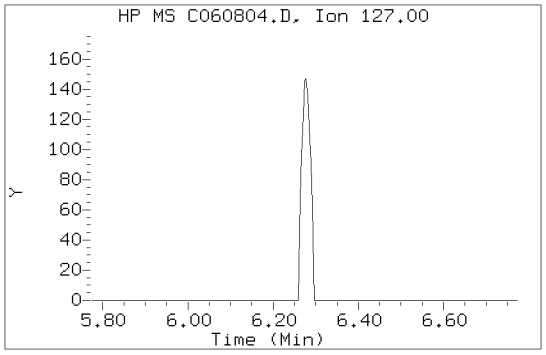
BEFORE

MASS
127
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
127
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL

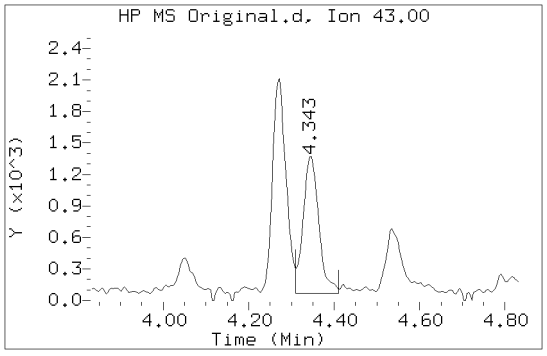


Vinyl Acetate (108-05-4)

Reason Code:

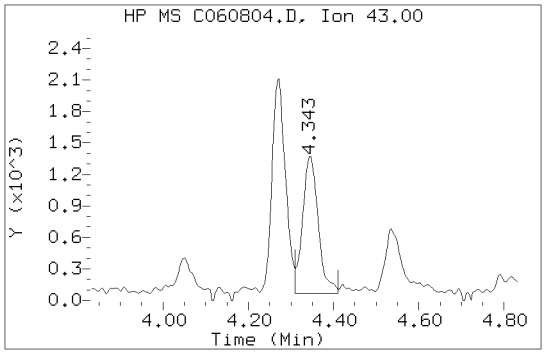
BEFORE

MASS
43
AREA
3356
HEIGHT
1301
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
43
AREA
3356
HEIGHT
1301
21-Jun-2024
10:55
RUCHA
PATEL



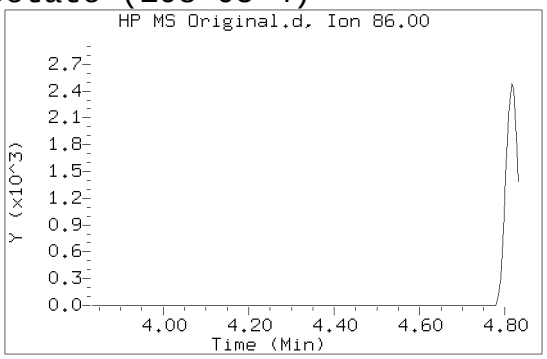
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240608.b\C060804.D
Inj Date : 08-JUN-2024 16:37
InstruID : VOA9.i
LabSampID : VSTD001

Vinyl Acetate (108-05-4)

Reason Code:

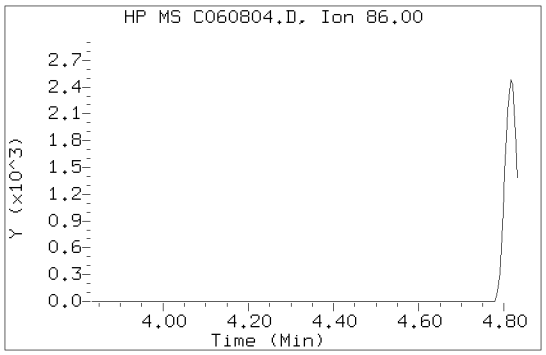
BEFORE

MASS
86
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
86
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL

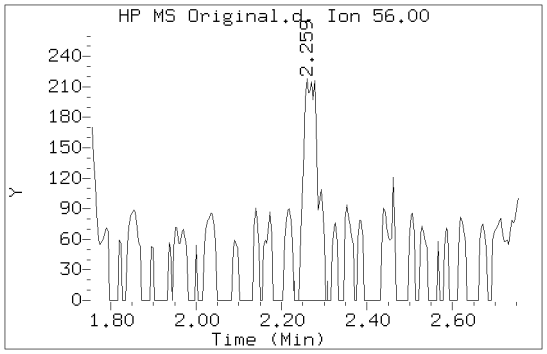


Acrolein (107-02-8)

Reason Code:

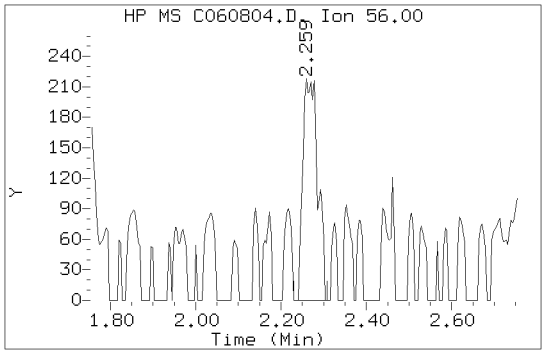
BEFORE

MASS
56
AREA
535
HEIGHT
218
21-Jun-2024
10:55
RUCHA
PATEL



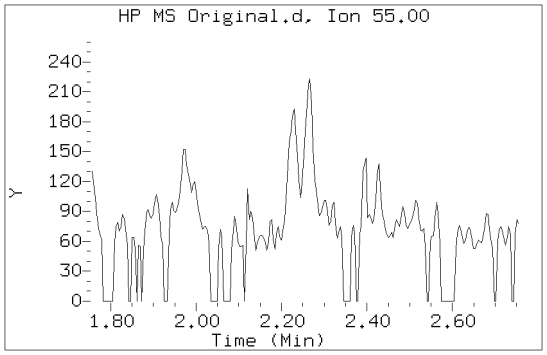
AFTER

MASS
56
AREA
535
HEIGHT
218
21-Jun-2024
10:55
RUCHA
PATEL



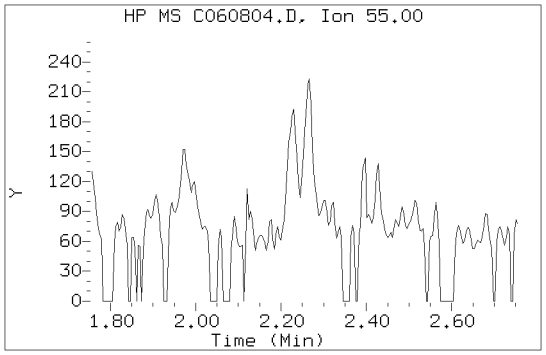
BEFORE

MASS
55
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
55
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL

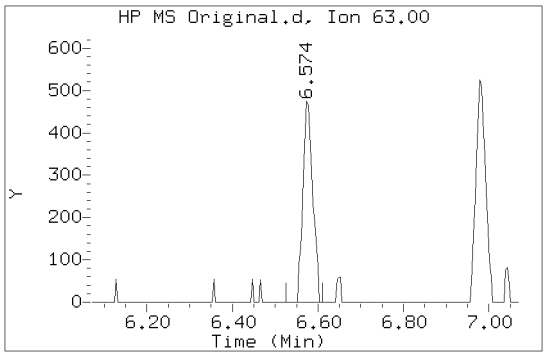


2-Chloroethylvinyl ether (110-75-8)

Reason Code:

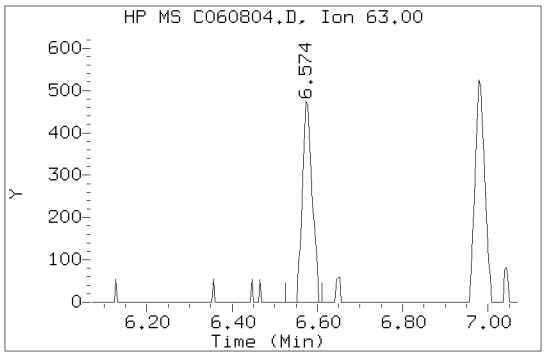
BEFORE

MASS
63
AREA
765
HEIGHT
475
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
63
AREA
765
HEIGHT
475
21-Jun-2024
10:55
RUCHA
PATEL



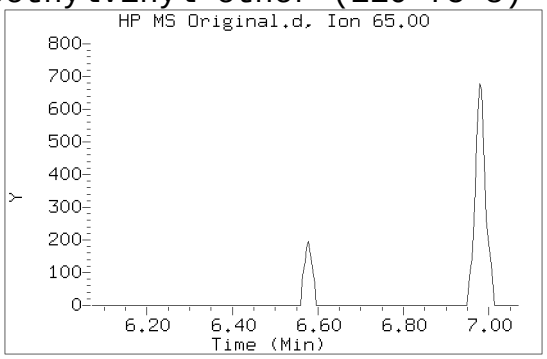
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240608.b\C060804.D
Inj Date : 08-JUN-2024 16:37
InstruID : VOA9.i
LabSampID : VSTD001

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

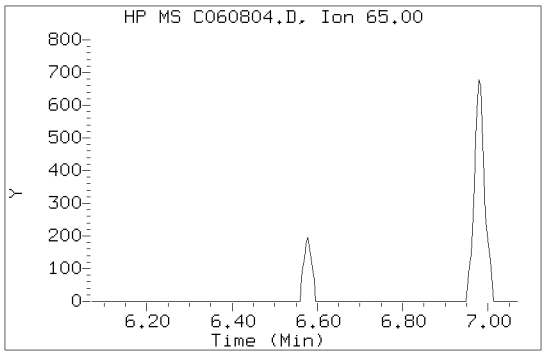
BEFORE

MASS
65
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



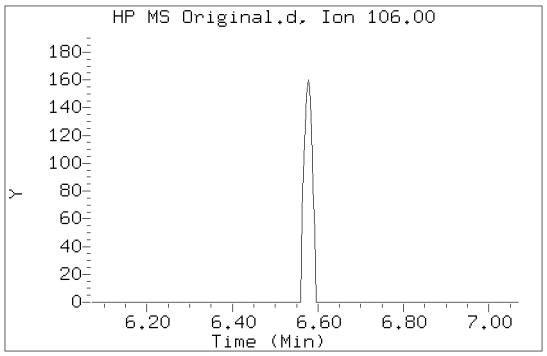
AFTER

MASS
65
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



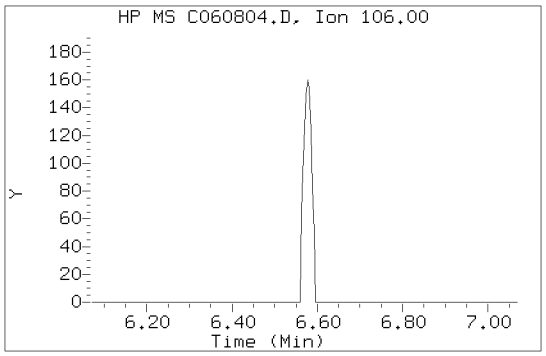
BEFORE

MASS
106
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
106
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL

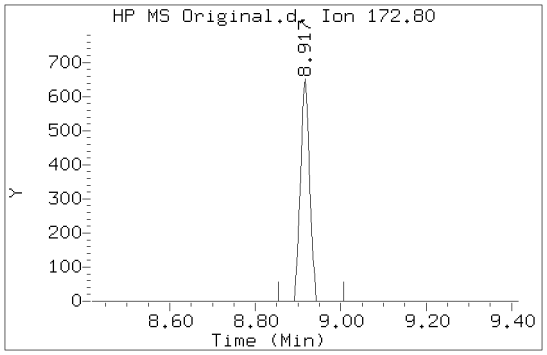


Bromoform (75-25-2)

Reason Code:

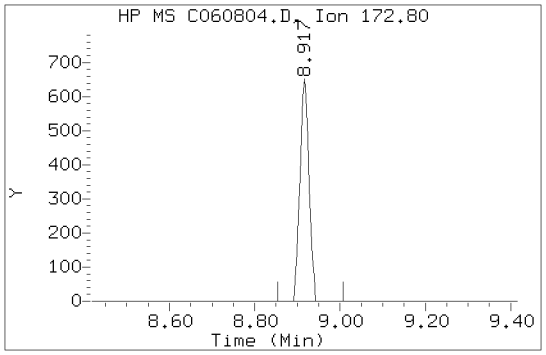
BEFORE

MASS
172.8
AREA
985
HEIGHT
652
21-Jun-2024
10:55
RUCHA
PATEL



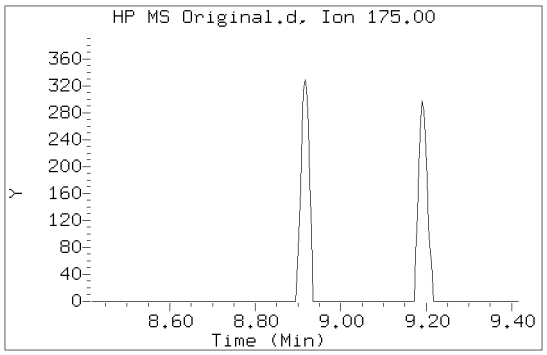
AFTER

MASS
172.8
AREA
985
HEIGHT
652
21-Jun-2024
10:55
RUCHA
PATEL



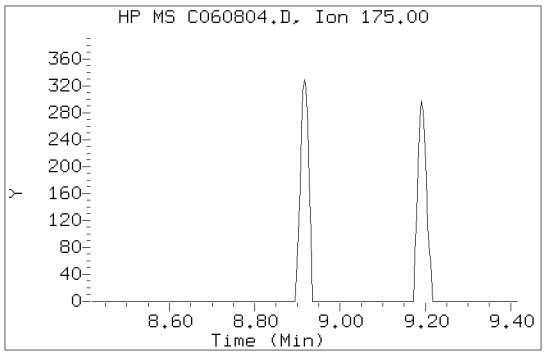
BEFORE

MASS
175
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
175
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



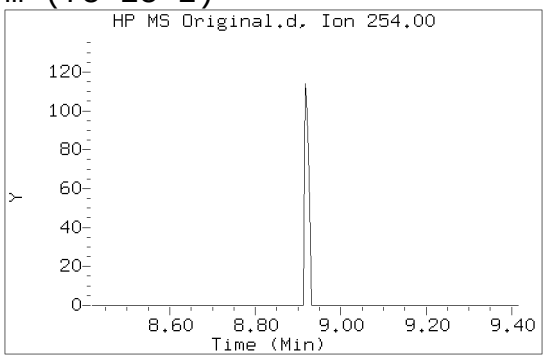
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240608.b\C060804.D
Inj Date : 08-JUN-2024 16:37
InstruID : VOA9.i
LabSampID : VSTD001

Bromoform (75-25-2)

Reason Code:

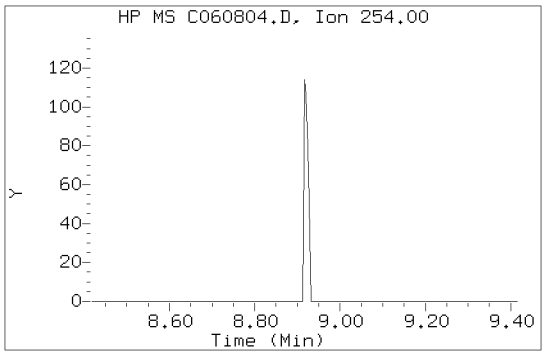
BEFORE

MASS
254
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
254
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL

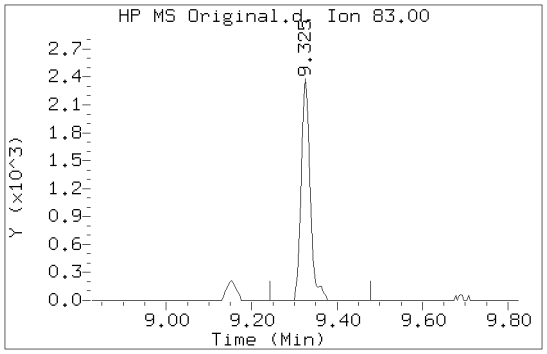


1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

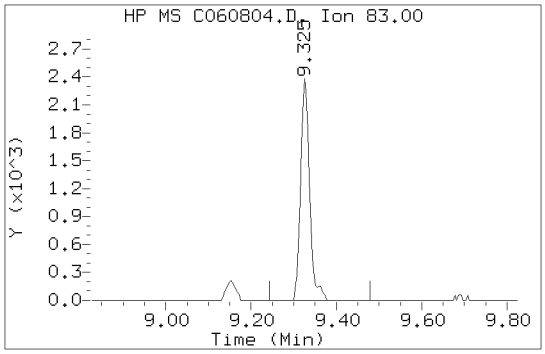
BEFORE

MASS
83
AREA
3597
HEIGHT
2381
21-Jun-2024
10:55
RUCHA
PATEL



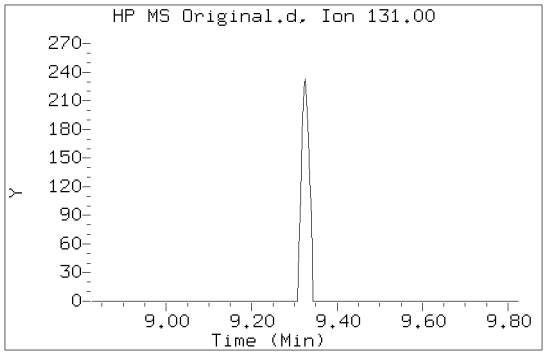
AFTER

MASS
83
AREA
3597
HEIGHT
2381
21-Jun-2024
10:55
RUCHA
PATEL



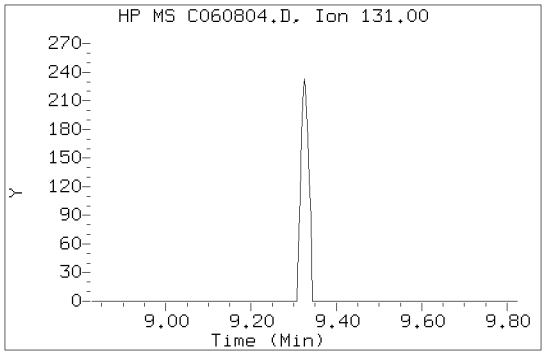
BEFORE

MASS
131
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



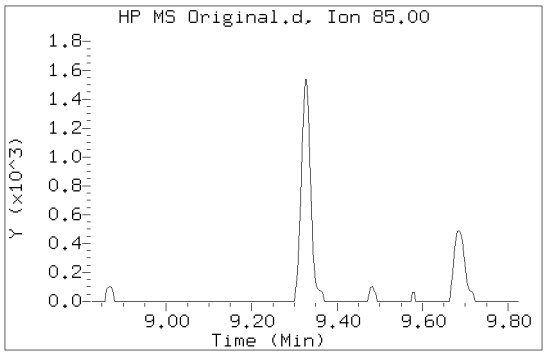
AFTER

MASS
131
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



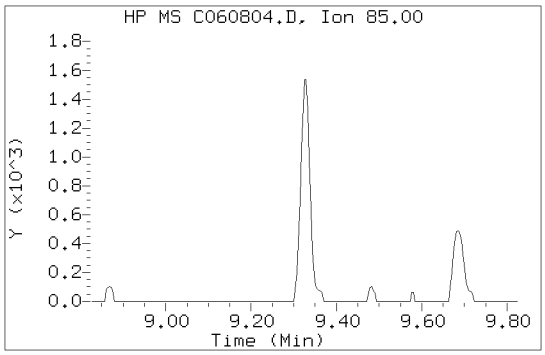
BEFORE

MASS
85
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
85
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



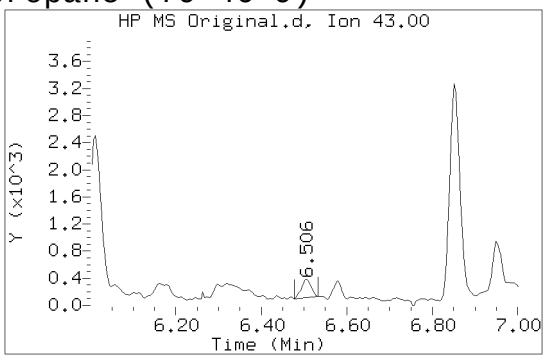
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240608.b\C060804.D
Inj Date : 08-JUN-2024 16:37
InstruID : VOA9.i
LabSampID : VSTD001

2-Nitropropane (79-46-9)

Reason Code:

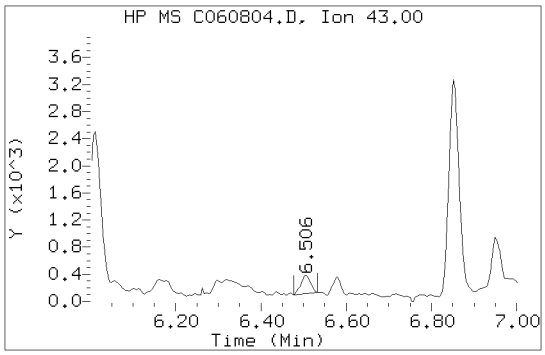
BEFORE

MASS
43
AREA
426
HEIGHT
266
21-Jun-2024
10:55
RUCHA
PATEL



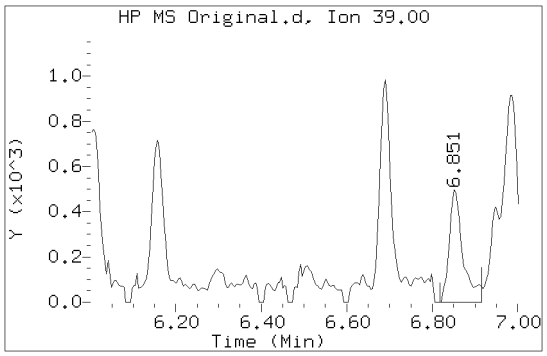
AFTER

MASS
43
AREA
426
HEIGHT
266
21-Jun-2024
10:55
RUCHA
PATEL



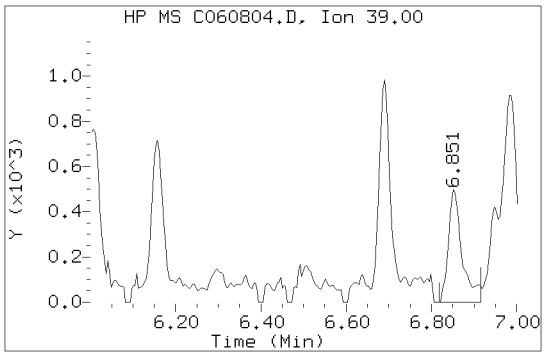
BEFORE

MASS
39
AREA
1115
HEIGHT
498
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
39
AREA
1115
HEIGHT
498
21-Jun-2024
10:55
RUCHA
PATEL

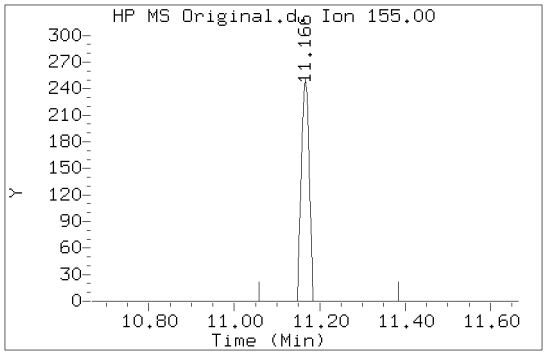


1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

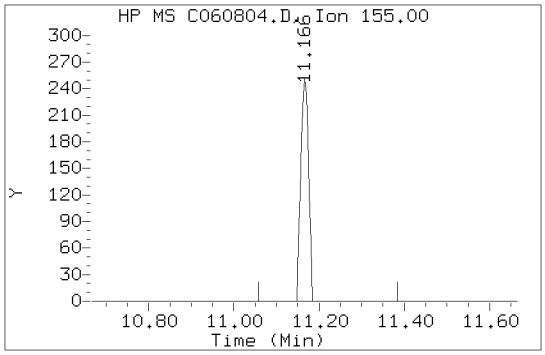
BEFORE

MASS
155
AREA
329
HEIGHT
251
21-Jun-2024
10:55
RUCHA
PATEL



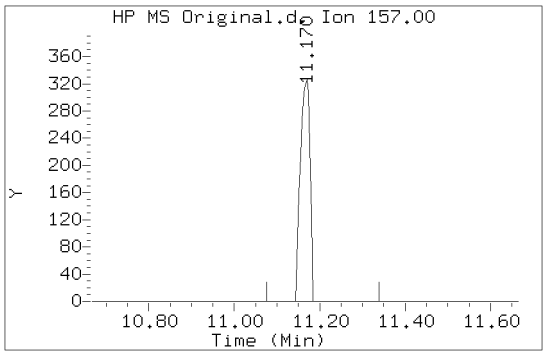
AFTER

MASS
155
AREA
329
HEIGHT
251
21-Jun-2024
10:55
RUCHA
PATEL



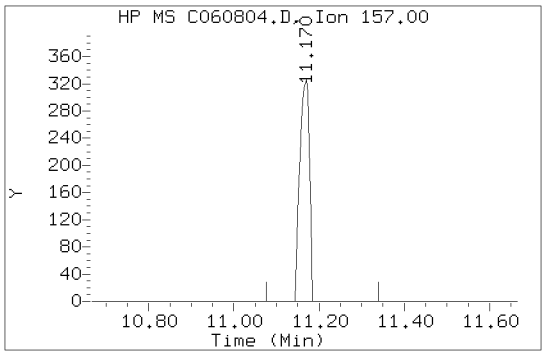
BEFORE

MASS
157
AREA
526
HEIGHT
326
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
157
AREA
526
HEIGHT
326
21-Jun-2024
10:55
RUCHA
PATEL



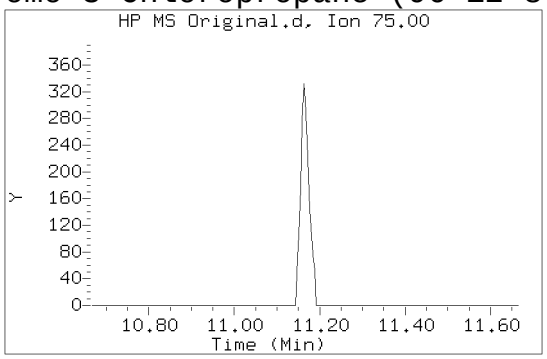
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Inj Date : 08-JUN-2024 16:37
InstruID : VOA9.i
LabSampID : VSTD001

1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

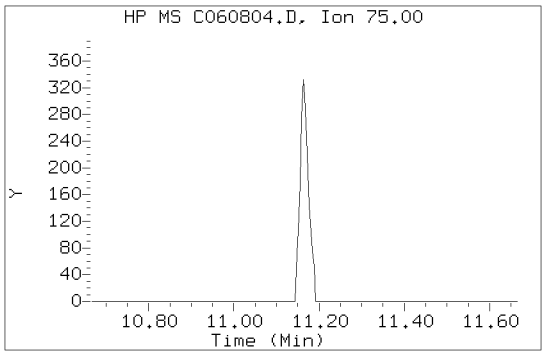
BEFORE

MASS
75
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
75
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL

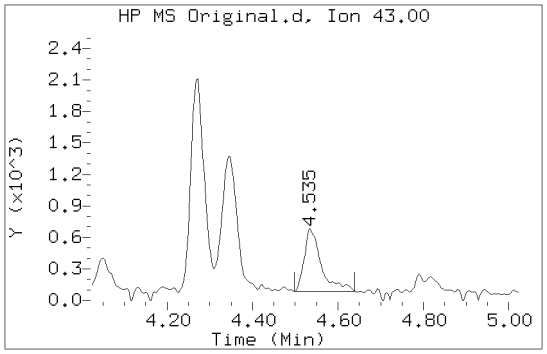


Ethyl Acetate (141-78-6)

Reason Code:

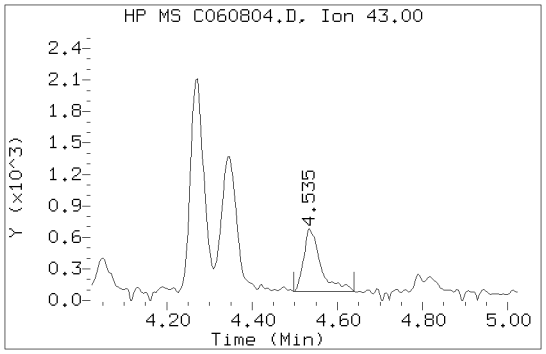
BEFORE

MASS
43
AREA
1657
HEIGHT
600
21-Jun-2024
10:55
RUCHA
PATEL



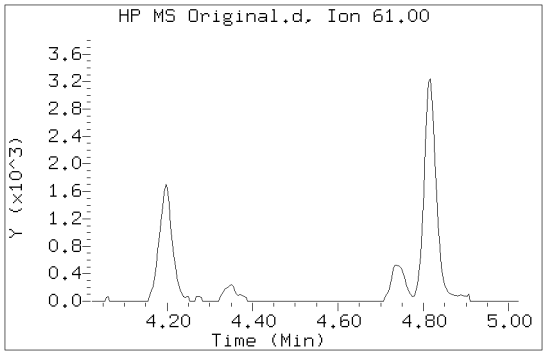
AFTER

MASS
43
AREA
1657
HEIGHT
600
21-Jun-2024
10:55
RUCHA
PATEL



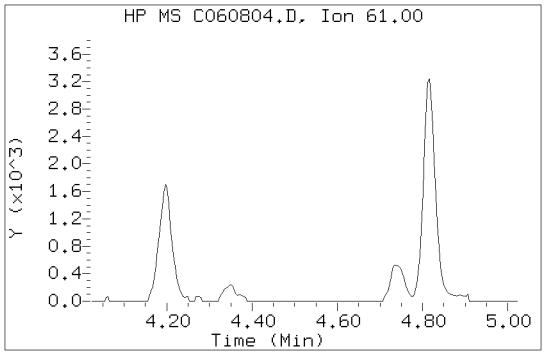
BEFORE

MASS
61
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



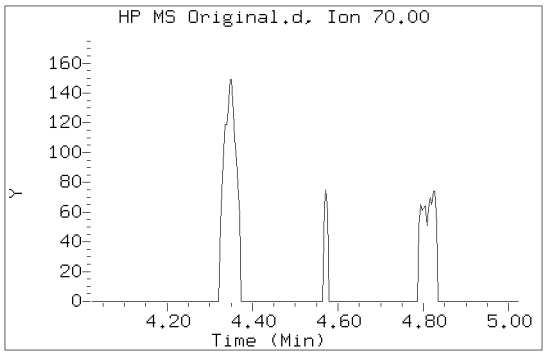
AFTER

MASS
61
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



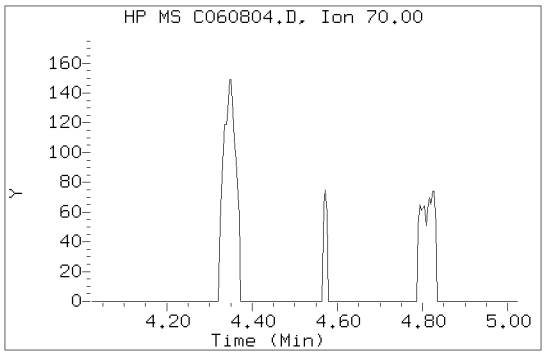
BEFORE

MASS
70
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
70
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



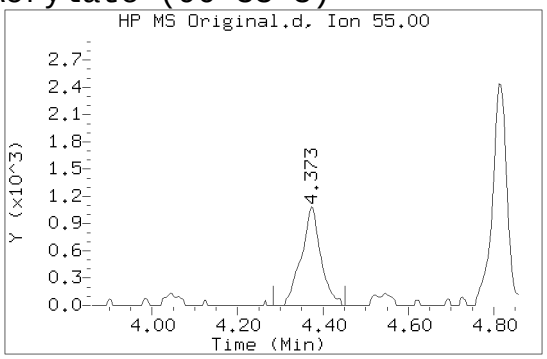
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Inj Date : 08-JUN-2024 16:37
InstruID : VOA9.i
LabSampID : VSTD001

Methyl Acrylate (96-33-3)

Reason Code:

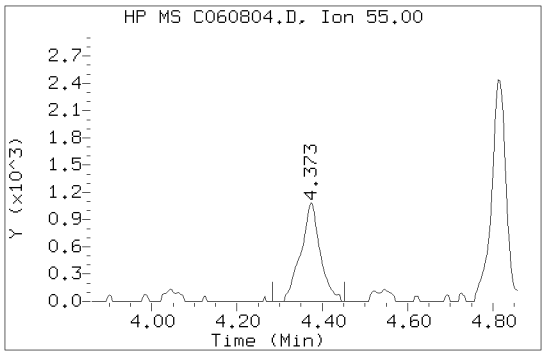
BEFORE

MASS
55
AREA
3480
HEIGHT
1084
21-Jun-2024
10:55
RUCHA
PATEL



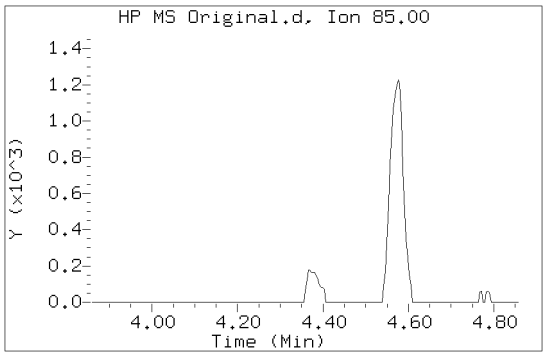
AFTER

MASS
55
AREA
3480
HEIGHT
1084
21-Jun-2024
10:55
RUCHA
PATEL



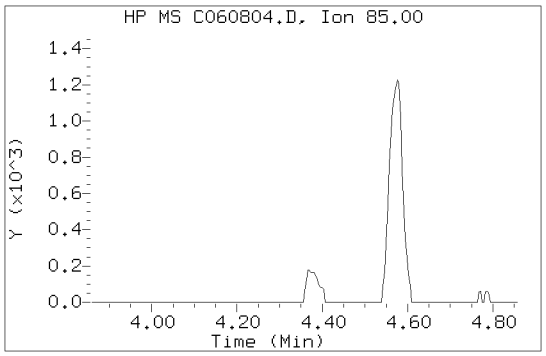
BEFORE

MASS
85
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
85
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL

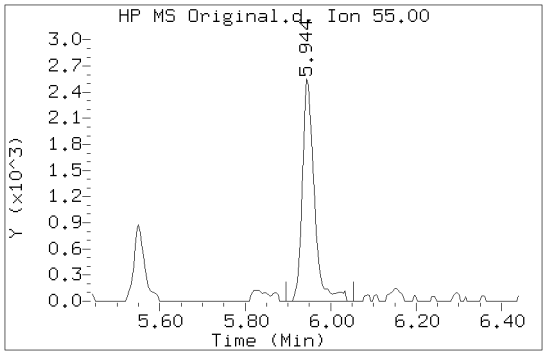


Ethyl Acrylate (140-88-5)

Reason Code:

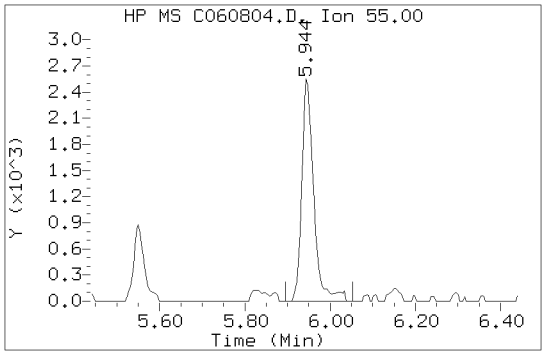
BEFORE

MASS
55
AREA
5055
HEIGHT
2552
21-Jun-2024
10:55
RUCHA
PATEL



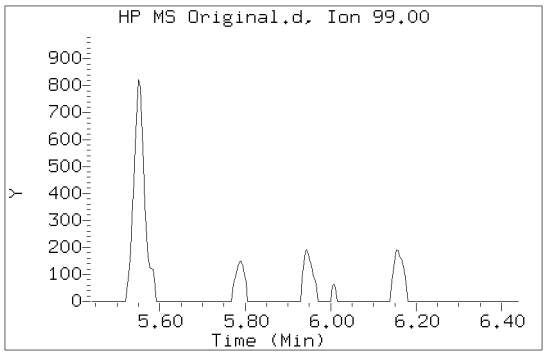
AFTER

MASS
55
AREA
5055
HEIGHT
2552
21-Jun-2024
10:55
RUCHA
PATEL



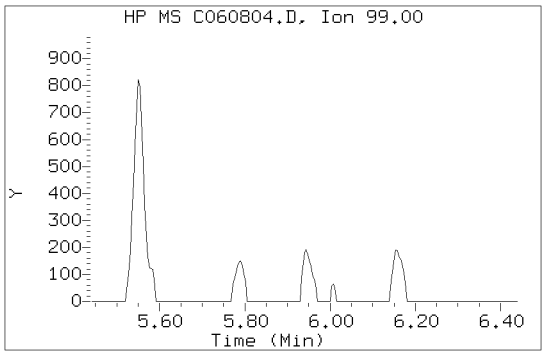
BEFORE

MASS
99
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
99
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL

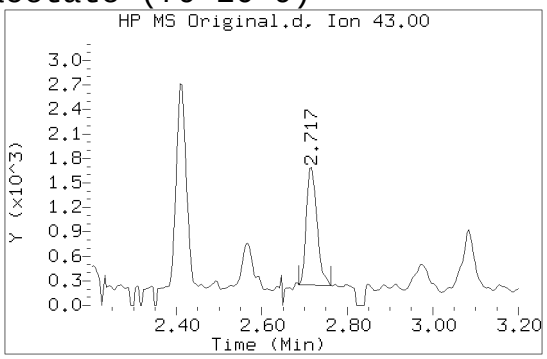


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240608.b\C060804.D
Inj Date : 08-JUN-2024 16:37
InstruID : VOA9.i
LabSampID : VSTD001

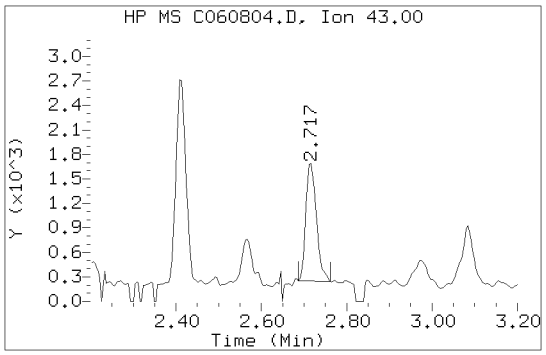
Methyl acetate (79-20-9)

Reason Code:

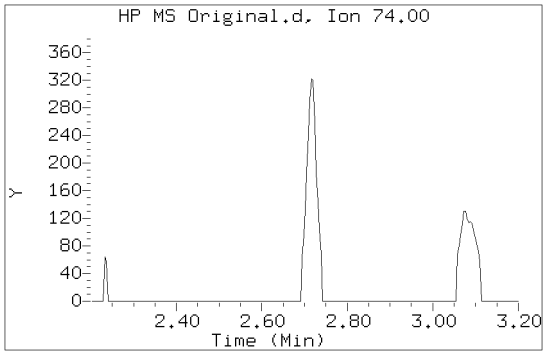
BEFORE
MASS
43
AREA
2509
HEIGHT
1440
21-Jun-2024
10:55
RUCHA
PATEL



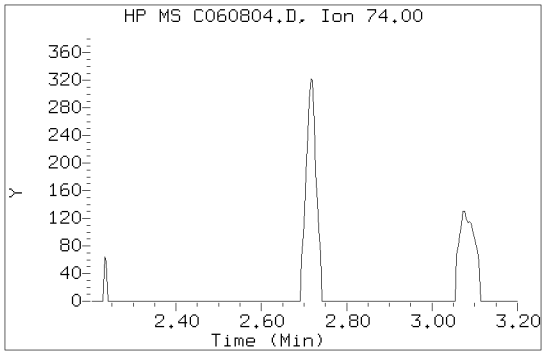
AFTER
MASS
43
AREA
2509
HEIGHT
1440
21-Jun-2024
10:55
RUCHA
PATEL



BEFORE
MASS
74
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



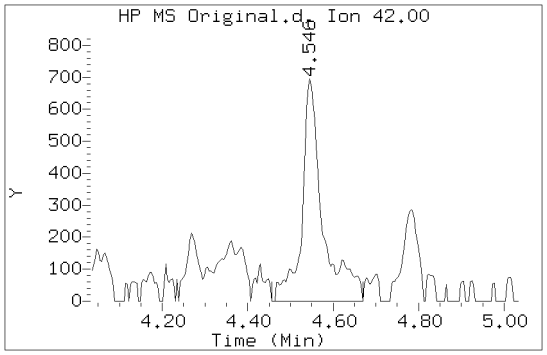
AFTER
MASS
74
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



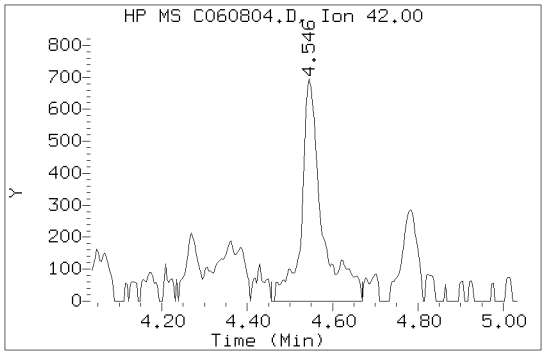
Tetrahydrofuran (109-99-9)

Reason Code:

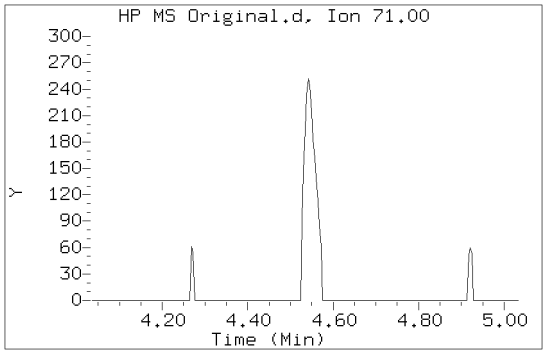
BEFORE
MASS
42
AREA
2345
HEIGHT
695
21-Jun-2024
10:55
RUCHA
PATEL



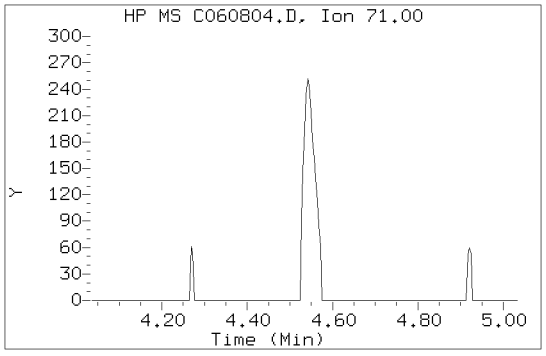
AFTER
MASS
42
AREA
2345
HEIGHT
695
21-Jun-2024
10:55
RUCHA
PATEL



BEFORE
MASS
71
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



AFTER
MASS
71
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



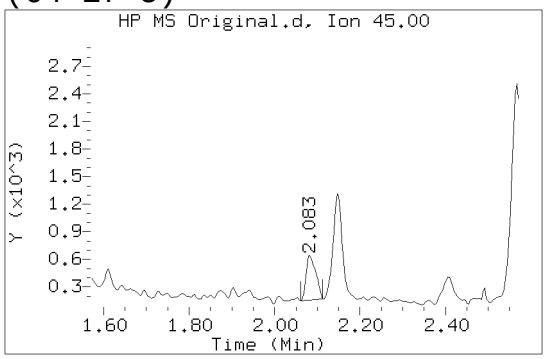
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Inj Date : 08-JUN-2024 16:37
InstruID : VOA9.i
LabSampID : VSTD001

Ethanol (64-17-5)

Reason Code:

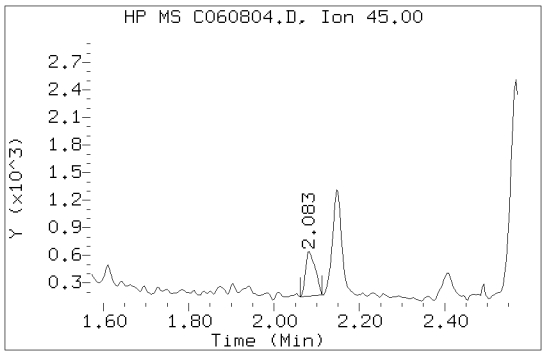
BEFORE

MASS
45
AREA
782
HEIGHT
487
21-Jun-2024
10:55
RUCHA
PATEL



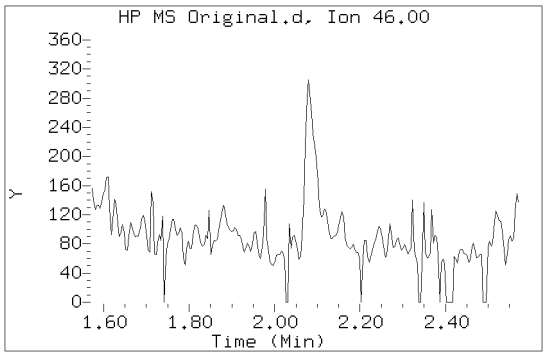
AFTER

MASS
45
AREA
782
HEIGHT
487
21-Jun-2024
10:55
RUCHA
PATEL



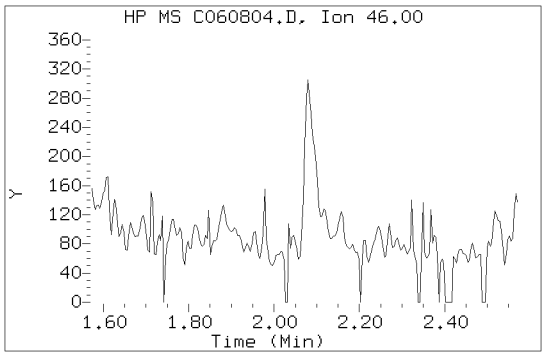
BEFORE

MASS
46
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



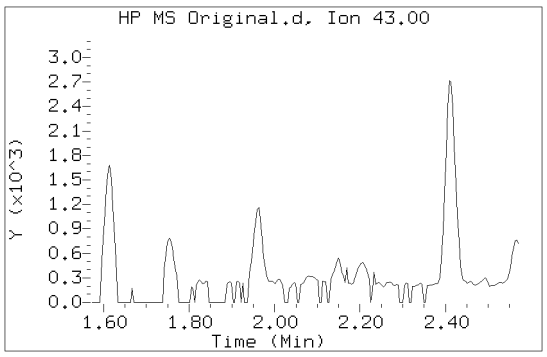
AFTER

MASS
46
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



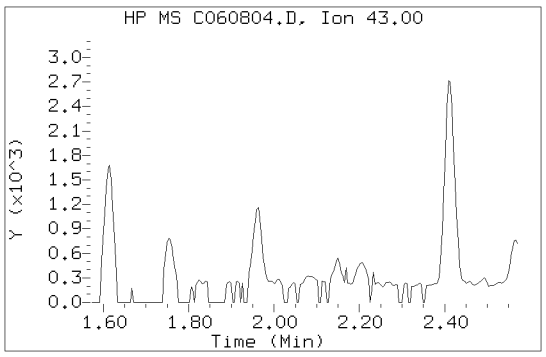
BEFORE

MASS
43
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
43
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL

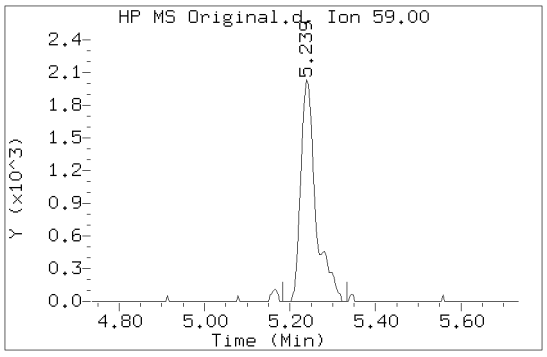


tert-Butyl formate (762-75-4)

Reason Code:

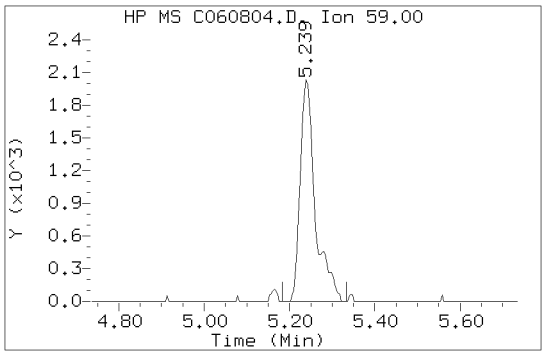
BEFORE

MASS
59
AREA
5060
HEIGHT
2033
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
59
AREA
5060
HEIGHT
2033
21-Jun-2024
10:55
RUCHA
PATEL



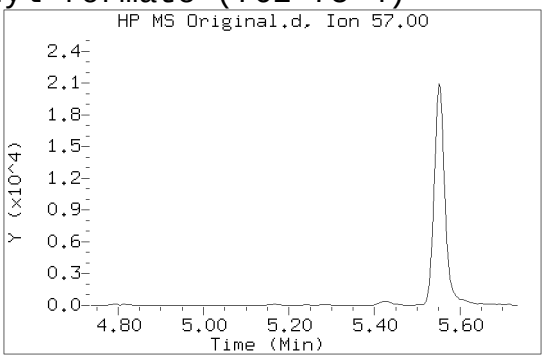
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Inj Date : 08-JUN-2024 16:37
InstruID : VOA9.i
LabSampID : VSTD001

tert-Butyl formate (762-75-4)

Reason Code:

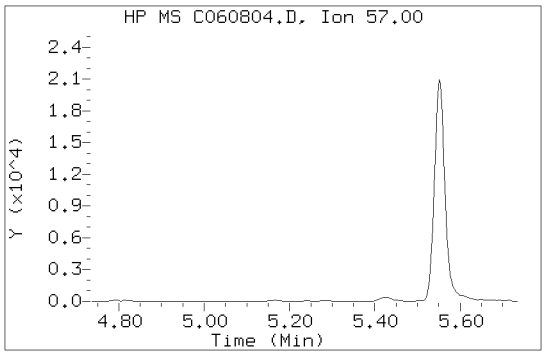
BEFORE

MASS
57
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



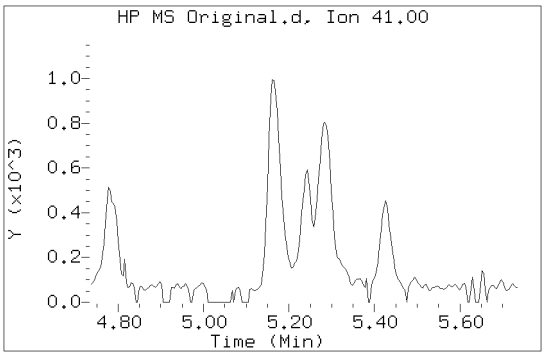
AFTER

MASS
57
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



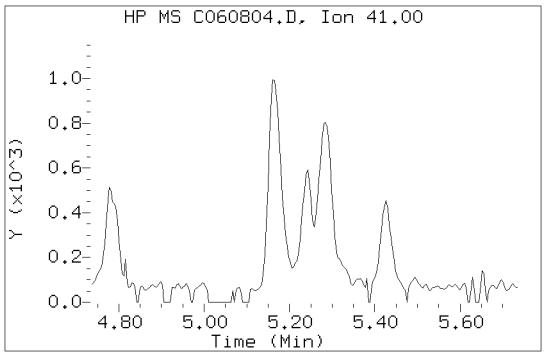
BEFORE

MASS
41
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
41
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL

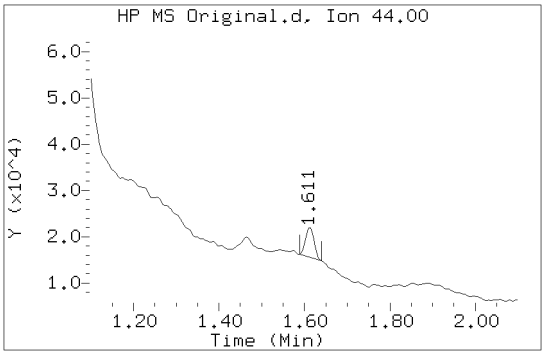


Ethylene oxide (75-21-8)

Reason Code:

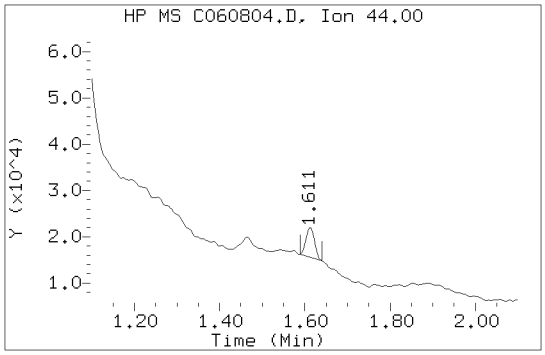
BEFORE

MASS
44
AREA
9170
HEIGHT
6302
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
44
AREA
9170
HEIGHT
6302
21-Jun-2024
10:55
RUCHA
PATEL

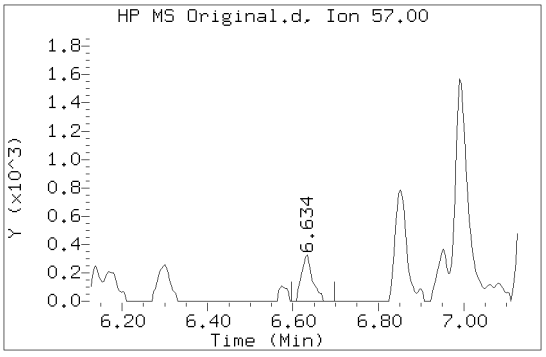


Epichlorohydrin (106-89-8)

Reason Code:

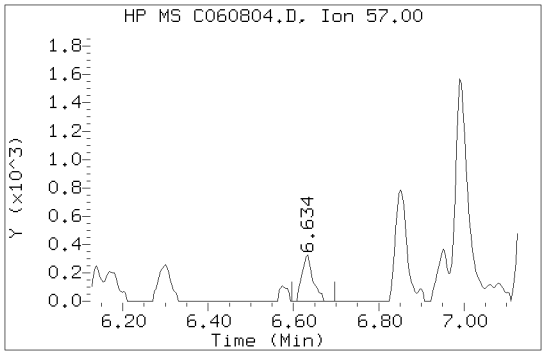
BEFORE

MASS
57
AREA
595
HEIGHT
325
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
57
AREA
595
HEIGHT
325
21-Jun-2024
10:55
RUCHA
PATEL



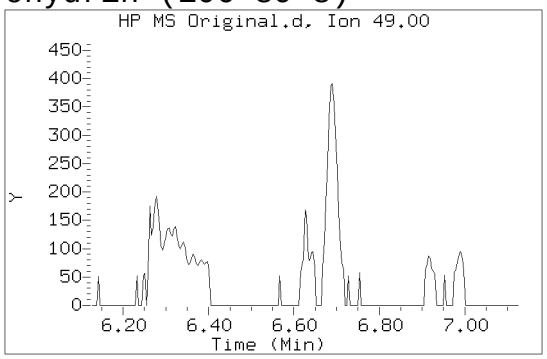
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Inj Date : 08-JUN-2024 16:37
InstruID : VOA9.i
LabSampID : VSTD001

Epichlorohydrin (106-89-8)

Reason Code:

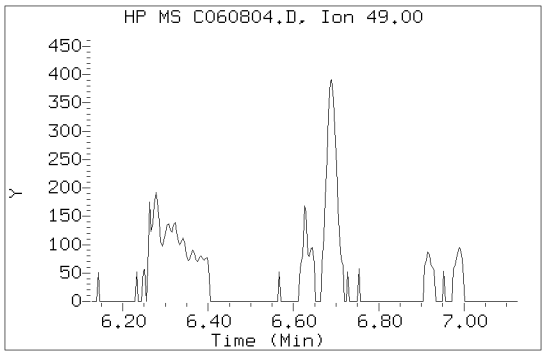
BEFORE

MASS
49
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
49
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL

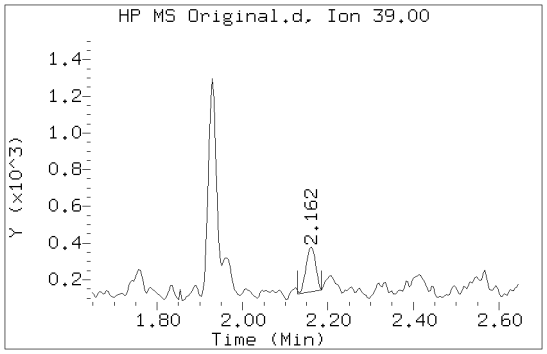


Isoprene (78-79-5)

Reason Code:

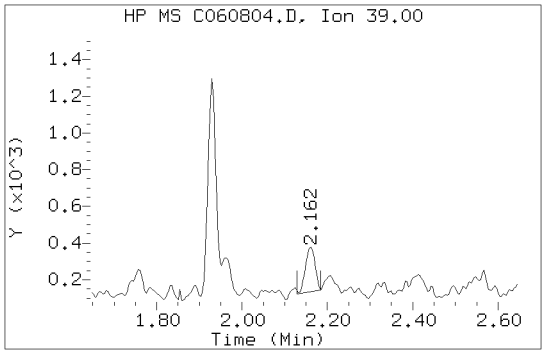
BEFORE

MASS
39
AREA
385
HEIGHT
242
21-Jun-2024
10:55
RUCHA
PATEL



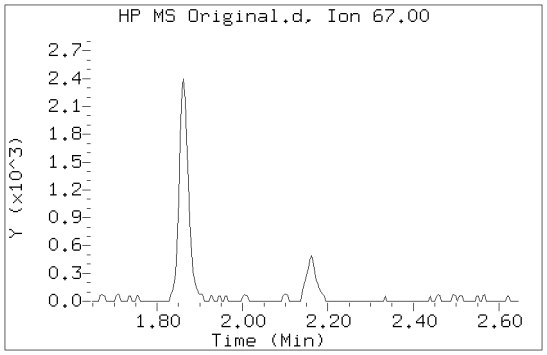
AFTER

MASS
39
AREA
385
HEIGHT
242
21-Jun-2024
10:55
RUCHA
PATEL



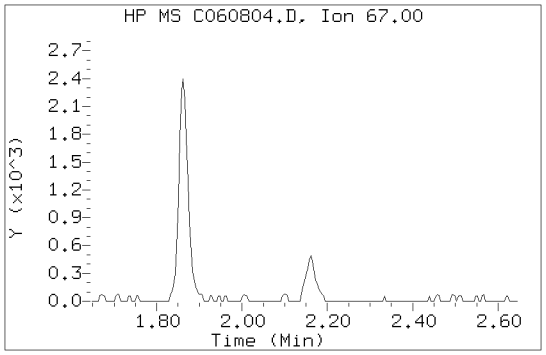
BEFORE

MASS
67
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



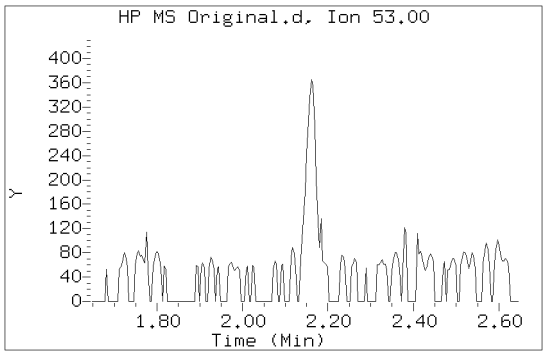
AFTER

MASS
67
AREA
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HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



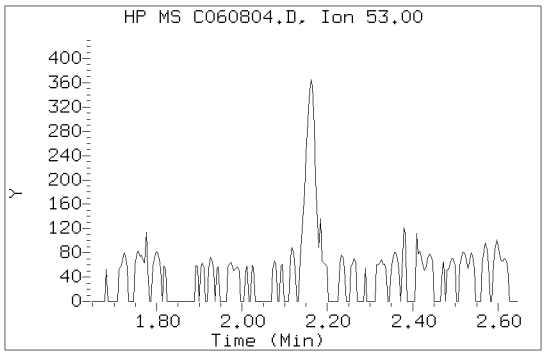
BEFORE

MASS
53
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
53
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



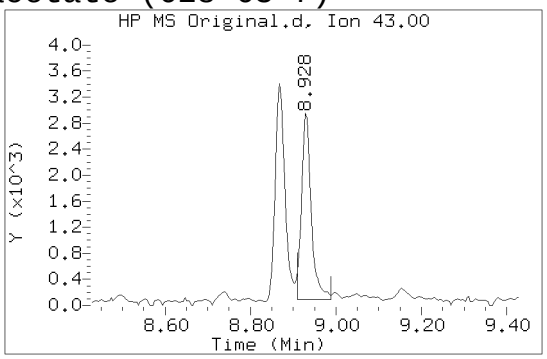
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Inj Date : 08-JUN-2024 16:37
InstruID : VOA9.i
LabSampID : VSTD001

n-Amyl acetate (628-63-7)

Reason Code:

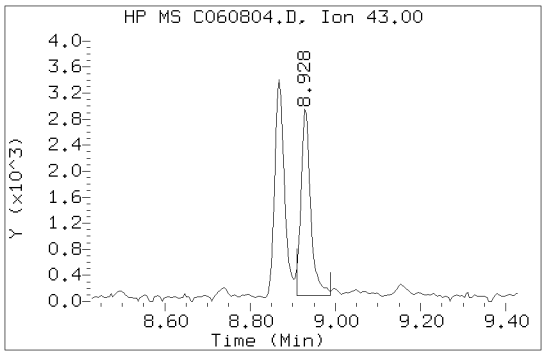
BEFORE

MASS
43
AREA
4654
HEIGHT
2867
21-Jun-2024
10:55
RUCHA
PATEL



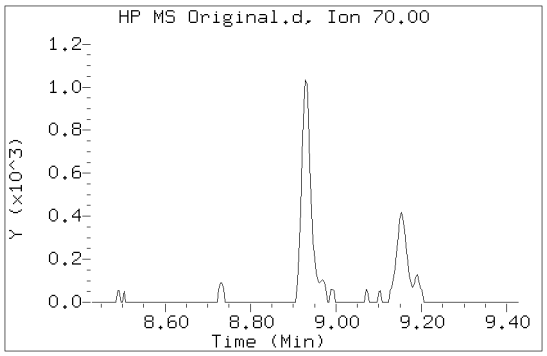
AFTER

MASS
43
AREA
4654
HEIGHT
2867
21-Jun-2024
10:55
RUCHA
PATEL



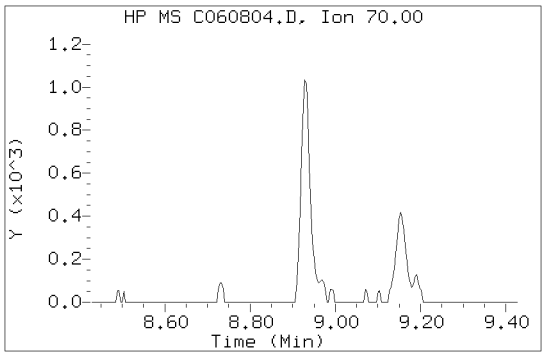
BEFORE

MASS
70
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



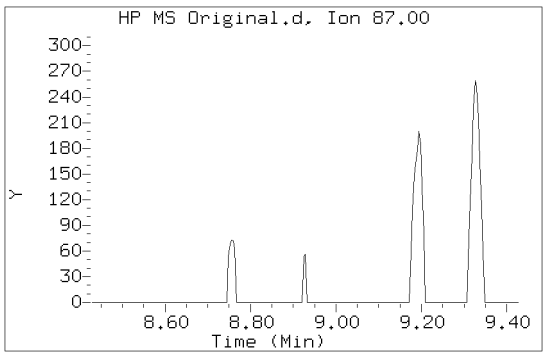
AFTER

MASS
70
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



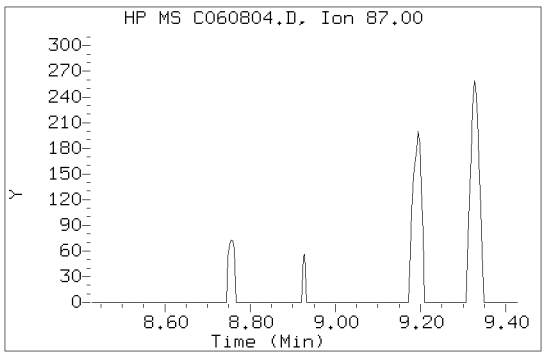
BEFORE

MASS
87
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
87
AREA
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HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL

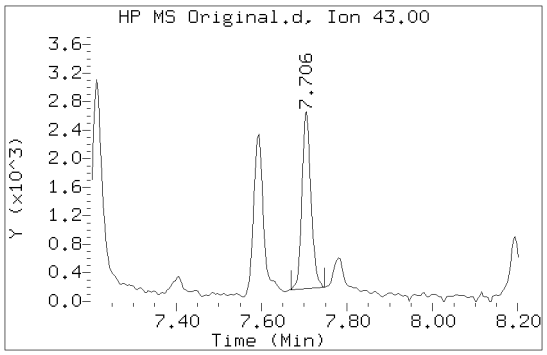


n-Butyl acetate (123-86-4)

Reason Code:

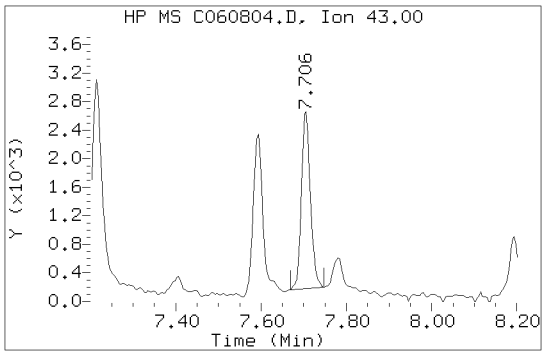
BEFORE

MASS
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AREA
3739
HEIGHT
2482
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
43
AREA
3739
HEIGHT
2482
21-Jun-2024
10:55
RUCHA
PATEL

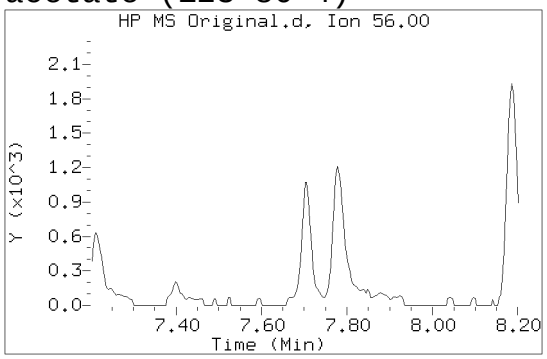


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240608.b\C060804.D
Inj Date : 08-JUN-2024 16:37
InstruID : VOA9.i
LabSampID : VSTD001

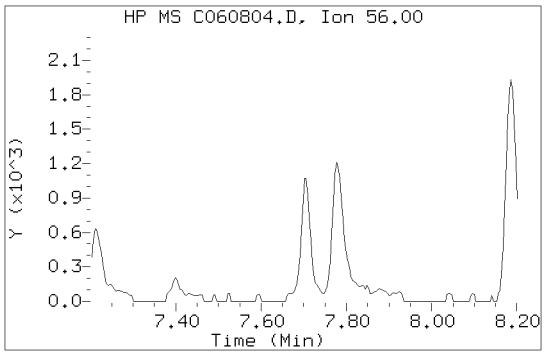
n-Butyl acetate (123-86-4)

Reason Code:

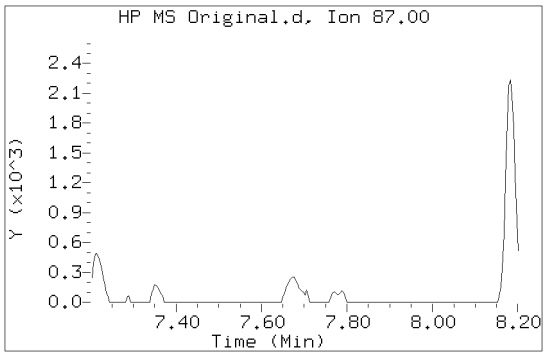
BEFORE
MASS
56
AREA
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HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



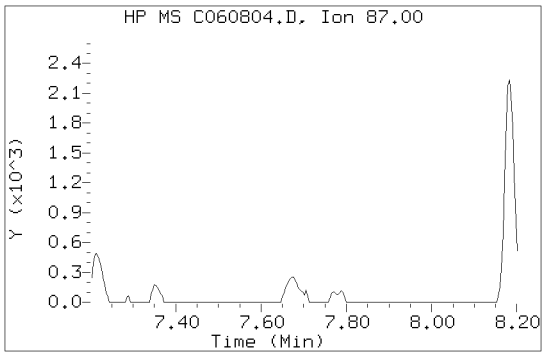
AFTER
MASS
56
AREA
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HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



BEFORE
MASS
87
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



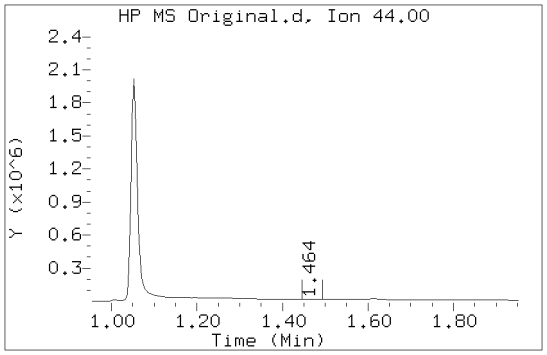
AFTER
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87
AREA
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HEIGHT
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21-Jun-2024
10:55
RUCHA
PATEL



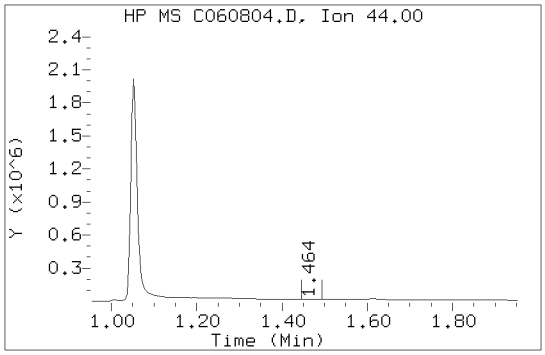
Acetaldehyde (75-07-0)

Reason Code:

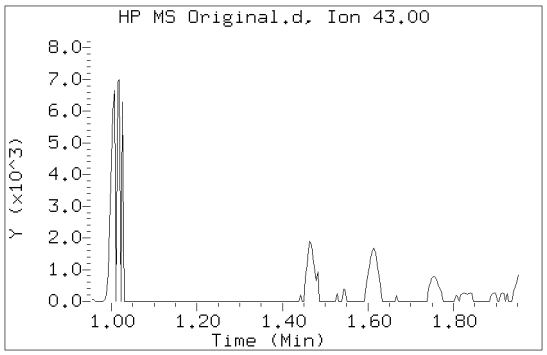
BEFORE
MASS
44
AREA
2445
HEIGHT
2053
21-Jun-2024
10:55
RUCHA
PATEL



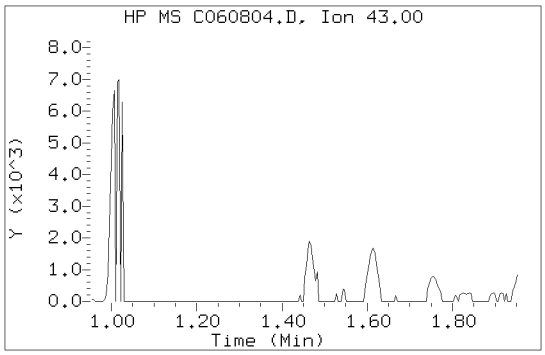
AFTER
MASS
44
AREA
2445
HEIGHT
2053
21-Jun-2024
10:55
RUCHA
PATEL



BEFORE
MASS
43
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



AFTER
MASS
43
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



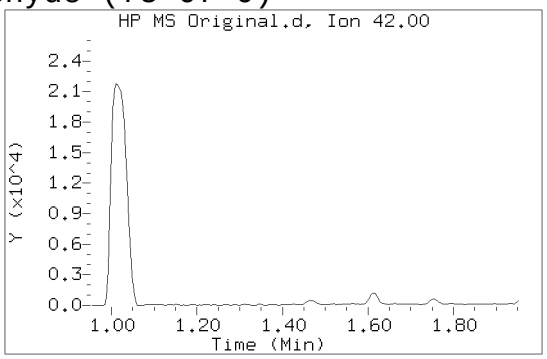
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Inj Date : 08-JUN-2024 16:37
InstruID : VOA9.i
LabSampID : VSTD001

Acetaldehyde (75-07-0)

Reason Code:

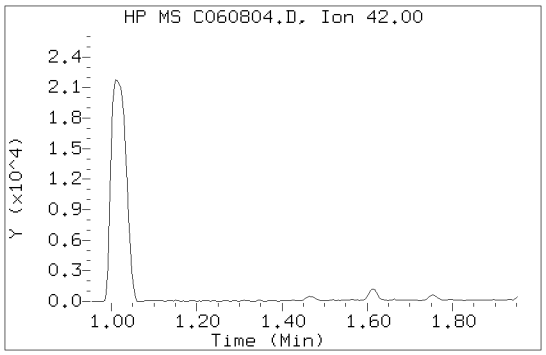
BEFORE

MASS
42
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
42
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL

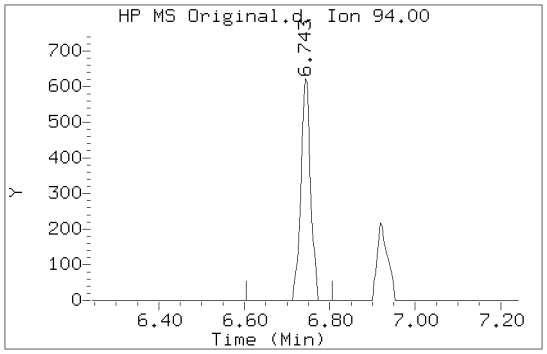


Dimethyl Disulfide (624-92-0)

Reason Code:

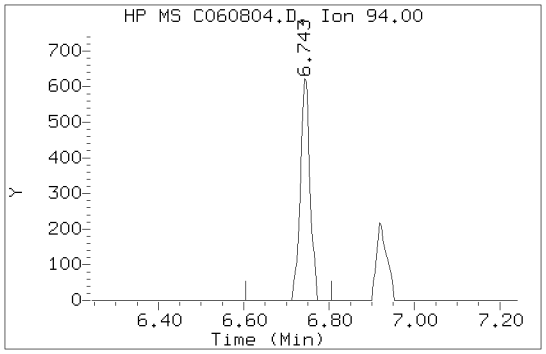
BEFORE

MASS
94
AREA
1002
HEIGHT
622
21-Jun-2024
10:55
RUCHA
PATEL



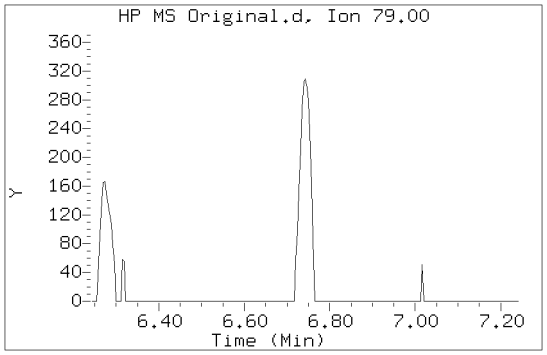
AFTER

MASS
94
AREA
1002
HEIGHT
622
21-Jun-2024
10:55
RUCHA
PATEL



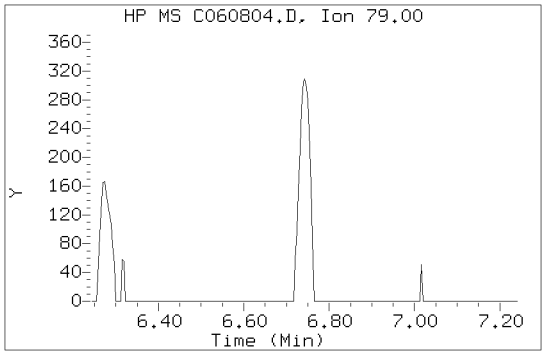
BEFORE

MASS
79
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



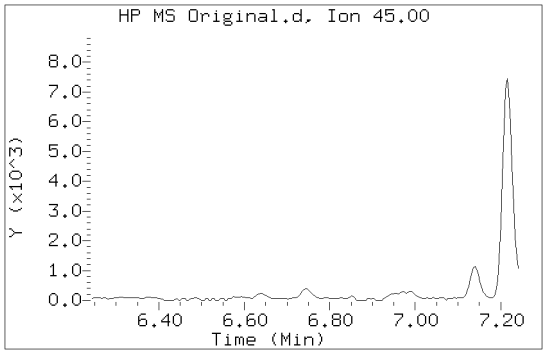
AFTER

MASS
79
AREA
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HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



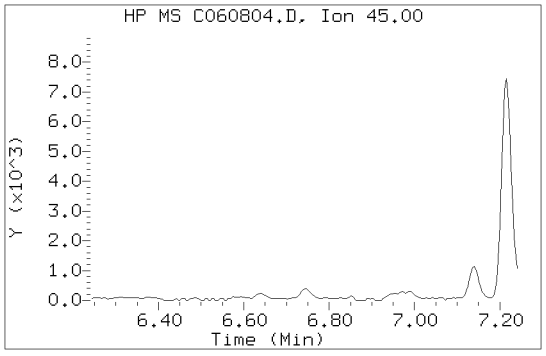
BEFORE

MASS
45
AREA
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HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
45
AREA
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HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL

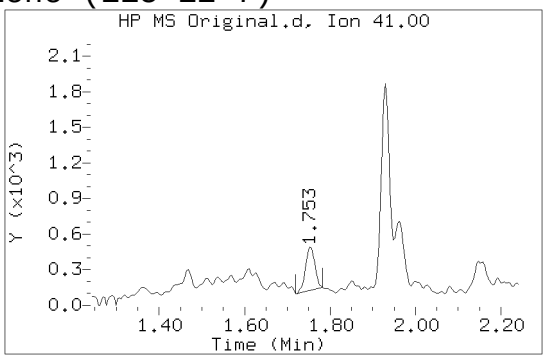


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Inj Date : 08-JUN-2024 16:37
InstruID : VOA9.i
LabSampID : VSTD001

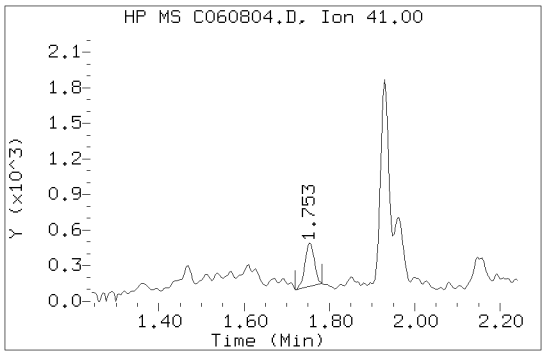
Isobutylene (115-11-7)

Reason Code:

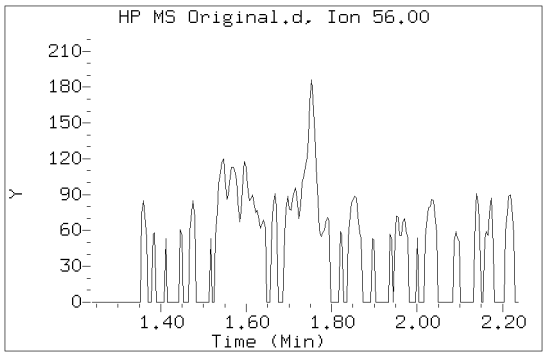
BEFORE
MASS
41
AREA
574
HEIGHT
366
21-Jun-2024
10:55
RUCHA
PATEL



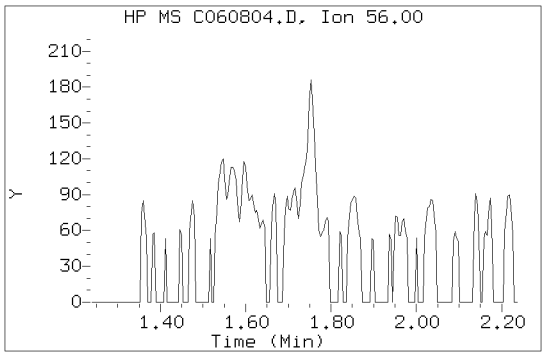
AFTER
MASS
41
AREA
574
HEIGHT
366
21-Jun-2024
10:55
RUCHA
PATEL



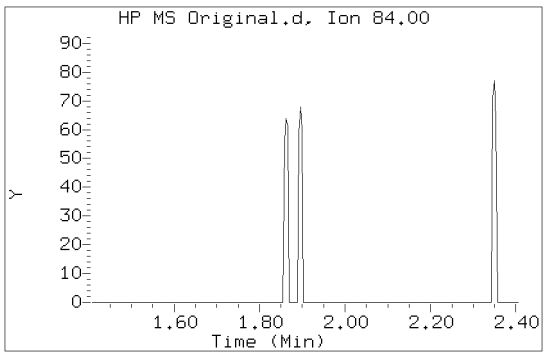
BEFORE
MASS
56
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



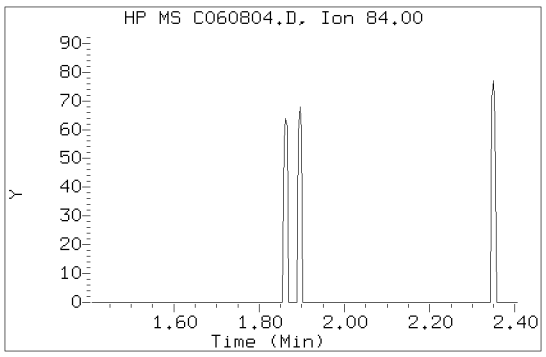
AFTER
MASS
56
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



BEFORE
MASS
84
AREA
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HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



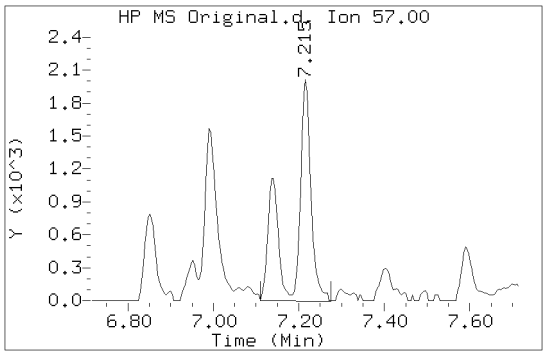
AFTER
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84
AREA
0
HEIGHT
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21-Jun-2024
10:55
RUCHA
PATEL



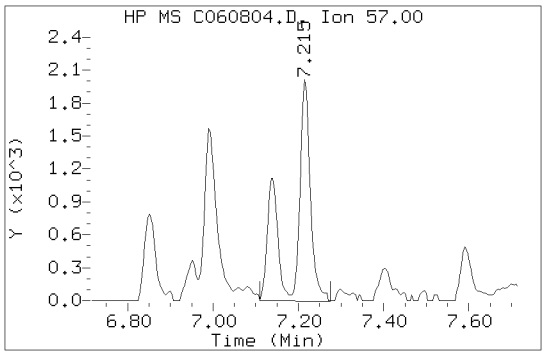
sec-Butyl Ether (6863-58-7)

Reason Code:

BEFORE
MASS
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AREA
5368
HEIGHT
2015
21-Jun-2024
10:55
RUCHA
PATEL



AFTER
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57
AREA
5368
HEIGHT
2015
21-Jun-2024
10:55
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Data File: \\NAHSTWS005\Target\chem\voa9.i\U240608.b\C060805.D Page 1
Report Date: 21-Jun-2024 10:56

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240608.b\C060805.D
Lab Smp Id: VSTD002 Client Smp ID: VSTD002
Inj Date : 08-JUN-2024 16:59
Operator : TS Inst ID: VOA9.i
Smp Info : VSTD002;VSTD002;1;4
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240608.b\8260C.m
Meth Date : 21-Jun-2024 10:56 VOA9.i Quant Type: ISTD
Cal Date : 08-JUN-2024 16:37 Cal File: C060804.D
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.811	4.811	(1.000)	271033	50.0000	
2	Dichlorodifluoromethane	85	1.164	1.164	(0.242)	4675	2.00000	2.37
3	Chloromethane	50	1.295	1.295	(0.269)	14542	2.00000	2.68
4	Propionitrile	54	4.335	4.335	(0.901)	9170	20.0000	27.77(a)
5	Vinyl Chloride	62	1.378	1.378	(0.286)	7045	2.00000	2.47
6	Bromomethane	94	1.617	1.617	(0.336)	4227	2.00000	2.48
7	Chloroethane	64	1.700	1.700	(0.353)	5059	2.00000	2.70
8	Trichlorofluoromethane	101	1.891	1.891	(0.393)	7002	2.00000	2.62(Q)
9	Acrolein	56	2.258	2.258	(0.469)	1308	4.00000	13.38(aQM)
10	Acetone	43	2.405	2.405	(0.500)	8712	4.00000	7.13
11	1,1-Dichloroethene	96	2.330	2.330	(0.484)	4223	2.00000	2.51
12	Isobutyl Alcohol	43	5.280	5.280	(1.097)	16296	40.0000	48.21(a)
13	Acetonitrile	39	2.667	2.667	(0.554)	5426	20.0000	22.84(a)
14	Allyl Chloride	41	2.671	2.671	(0.555)	14227	2.00000	2.36(a)
15	Iodomethane	142	2.465	2.465	(0.512)	2955	4.00000	5.82(TQ)
16	Acrylonitrile	53	3.064	3.064	(0.637)	5144	4.00000	5.55
17	Methylene Chloride	84	2.791	2.791	(0.580)	7368	2.00000	2.69
18	Methyl tert-butyl ether	73	3.076	3.076	(0.639)	13936	2.00000	2.33
19	Carbon Disulfide	76	2.517	2.517	(0.523)	25800	4.00000	5.19
20	trans-1,2-Dichloroethene	96	3.057	3.057	(0.635)	5088	2.00000	2.38(Q)

21 Vinyl Acetate	43	4.339	4.339 (0.902)	6627	4.00000	5.54(M)
22 1,1-Dichloroethane	63	3.511	3.511 (0.730)	10725	2.00000	2.65

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
23	Chloroprene	53	3.604	3.604	(0.749)	7324	2.00000	2.45(a)
24	2-Butanone	43	4.264	4.264	(0.886)	7896	4.00000	5.58
25	Methacrylonitrile	41	4.489	4.489	(0.933)	3949	2.00000	2.79(a)
26	2,2-Dichloropropane	77	4.178	4.178	(0.868)	7085	2.00000	2.68
27	cis-1,2-Dichloroethene	96	4.193	4.193	(0.871)	6697	2.00000	2.68
28	Chloroform	83	4.568	4.568	(0.949)	10632	2.00000	2.65
29	Bromochloromethane	128	4.466	4.466	(0.928)	3255	2.00000	2.66
$ 30	Dibromofluoromethane	113	4.744	4.744	(0.986)	5769	2.00000	2.39
31	1,1,1-Trichloroethane	97	4.736	4.736	(0.984)	6810	2.00000	2.52
32	1,1-Dichloropropene	75	4.920	4.920	(0.887)	6552	2.00000	2.44
33	1,2-Dichloroethane	62	5.171	5.171	(0.932)	8773	2.00000	2.47
34	Carbon Tetrachloride	117	4.909	4.909	(0.885)	5226	2.00000	2.37
$ 35	1,2-Dichloroethane-d4	65	5.092	5.092	(1.058)	7535	2.00000	2.24
* 36	1,4-Difluorobenzene	114	5.550	5.550	(1.000)	400617	50.0000	
37	Benzene	78	5.137	5.137	(0.926)	23436	2.00000	2.62
38	Trichloroethene	130	5.786	5.786	(1.043)	5607	2.00000	2.78(a)
39	Bromodichloromethane	83	6.273	6.273	(1.130)	6109	2.00000	2.52(aM)
40	Methyl Methacrylate	41	5.820	5.820	(1.210)	2553	2.00000	3.02(aQ)
41	2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	1652	4.00000	7.76(QM)
42	1,2-Dichloropropane	63	6.007	6.007	(1.082)	6422	2.00000	2.71(aQ)
43	2-Nitropropane	43	6.506	6.506	(1.352)	1117	2.00000	3.24(aQM)
44	Dibromomethane	93	6.116	6.116	(1.102)	3841	2.00000	2.84(a)
45	4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	12085	4.00000	6.01
46	cis-1,3-Dichloropropene	75	6.689	6.689	(1.205)	7186	2.00000	2.40(a)
* 47	Chlorobenzene-d5	117	8.181	8.181	(1.000)	355366	50.0000	
$ 48	Toluene-d8	98	6.918	6.918	(0.846)	19959	2.00000	2.45(a)
49	Ethyl Methacrylate	69	7.289	7.289	(1.313)	6861	2.00000	2.91(a)
50	Toluene	91	6.978	6.978	(0.853)	22774	2.00000	2.68(a)
51	trans-1,3-Dichloropropene	75	7.192	7.192	(1.296)	5105	2.00000	2.14(a)
52	2-Hexanone	43	7.214	7.214	(0.882)	10807	4.00000	5.26(Q)
53	1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	4810	2.00000	2.76(a)
54	1,3-Dichloropropane	76	7.495	7.495	(0.916)	9763	2.00000	2.68(a)
55	Dibromochloromethane	129	7.690	7.690	(0.940)	3885	2.00000	2.25(a)
56	Tetrachloroethene	164	7.454	7.454	(0.911)	4123	2.00000	2.57(a)
57	1,2-Dibromoethane	107	7.780	7.780	(0.951)	4910	2.00000	2.83(a)
58	1-Chlorohexane	55	8.189	8.189	(1.475)	7196	2.00000	2.79(aQ)
59	Chlorobenzene	112	8.208	8.208	(1.003)	15894	2.00000	2.71(a)
60	1,1,1,2-Tetrachloroethane	131	8.279	8.279	(1.012)	4687	2.00000	3.27(a)
61	Ethylbenzene	106	8.305	8.305	(1.015)	7155	2.00000	2.61(a)
62	m,p-Xylenes	106	8.406	8.406	(1.027)	16824	4.00000	4.95(a)
63	o-Xylene	106	8.747	8.747	(1.069)	8335	2.00000	2.51(a)
64	Styrene	104	8.759	8.759	(1.071)	12941	2.00000	2.43(a)
66	Bromoform	173	8.916	8.916	(1.090)	2382	2.00000	3.36(Ta)
67	Isopropylbenzene	105	9.059	9.059	(1.107)	19662	2.00000	2.47(a)
68	1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	8027	2.00000	2.81(a)
$ 69	4-Bromofluorobenzene	95	9.190	9.190	(1.123)	7988	2.00000	2.36(a)
* 70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	186030	50.0000	
71	1,2,3-Trichloropropane	75	9.358	9.358	(0.920)	7618	2.00000	2.53(a)
72	trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	1566	2.00000	2.43(a)
73	n-Propylbenzene	91	9.411	9.411	(0.926)	21403	2.00000	2.37(a)
74	Bromobenzene	156	9.317	9.317	(0.916)	6254	2.00000	2.68(a)
75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	13754	2.00000	2.65(a)

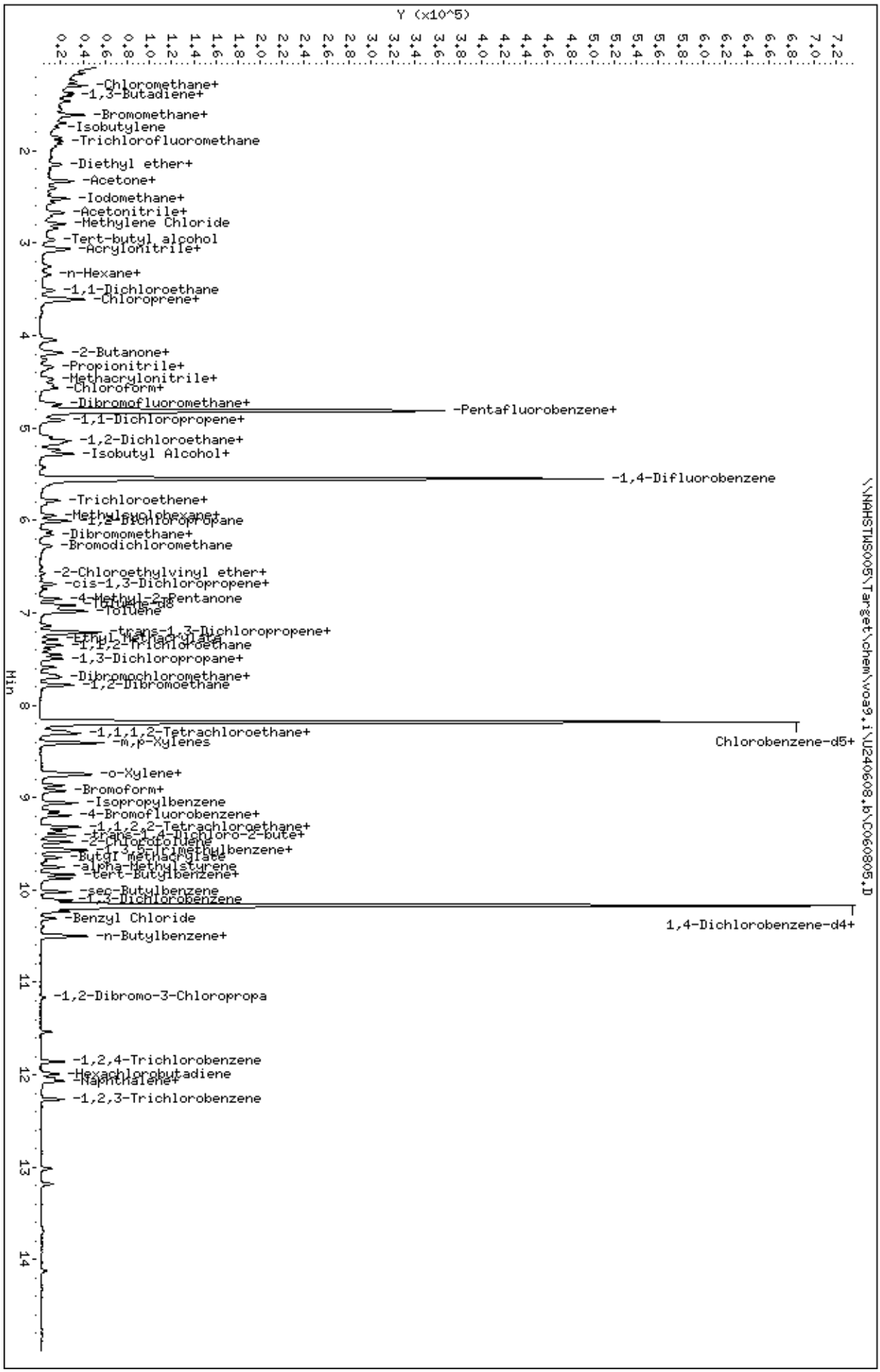
76	2-Chlorotoluene	91	9.482	9.482 (0.933)	15427	2.00000	2.69(a)
77	4-Chlorotoluene	91	9.576	9.576 (0.942)	17308	2.00000	2.52(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	13288	2.00000	2.48(a)
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	15171	2.00000	2.38(a)
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	16903	2.00000	2.34(a)
82	p-Isopropyltoluene	119	10.142	10.142	(0.997)	14307	2.00000	2.30(a)
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	10979	2.00000	2.39(a)
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	12583	2.00000	2.79(a)
86	Benzyl Chloride	91	10.307	10.307	(1.260)	9035	2.00000	3.34(a)
87	n-Butylbenzene	91	10.491	10.491	(1.032)	12356	2.00000	2.17(a)
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	11040	2.00000	2.58(a)
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	823	2.00000	3.15(a)
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	6752	2.00000	2.52(a)
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	2493	2.00000	2.56(a)
92	Naphthalene	128	12.069	12.069	(1.187)	14606	2.00000	2.71(a)
93	1,2,3-Trichlorobenzene	180	12.267	12.267	(1.206)	6073	2.00000	2.58(a)
146	Methyl acetate	43	2.712	2.712	(0.564)	5390	2.00000	2.55(a)
138	Freon TF	101	2.333	2.333	(0.485)	3774	2.00000	2.44(a)
141	Cyclohexane	56	4.804	4.804	(0.998)	10495	2.00000	2.14(aQ)
142	Tetrahydrofuran	42	4.545	4.545	(0.945)	2491	4.00000	4.47(a)
147	Methylcyclohexane	55	5.943	5.943	(1.071)	9166	2.00000	2.38(a)
135	1,4-Dioxane	88	6.165	6.165	(1.281)	1868	40.0000	55.34
132	n-Butanol	56	5.823	5.823	(1.210)	3293	40.0000	63.72(a)
136	n-Hexane	57	3.338	3.338	(0.694)	3933	2.00000	2.24(aQ)
139	Diethyl ether	59	2.142	2.142	(0.445)	3962	2.00000	2.18(aQ)
148	Tert-butyl alcohol	59	2.967	2.967	(0.617)	11908	40.0000	51.15
149	Isopropyl alcohol	45	2.562	2.562	(0.533)	8470	40.0000	45.01(TQ)
156	Diisopropyl ether	45	3.616	3.616	(0.751)	16450	2.00000	2.28(Ta)
162	Butyl acrylate	55	8.732	8.732	(1.067)	9475	2.00000	2.84(aQ)
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	19920	2.00000	1.96(a)
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	12347	2.00000	2.60(a)
167	Ethanol	45	2.079	2.079	(0.432)	1603	40.0000	57.13(Q)
172	tert-Butyl formate	59	5.239	5.239	(1.089)	11113	4.00000	5.55(M)
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	28932	40.0000	55.59
140	1,3-Butadiene	54	1.400	1.400	(0.291)	2669	2.00000	2.59(a)
182	Epichlorohydrin	57	6.629	6.629	(1.195)	1289	8.00000	12.89(M)
M 94	1,2-Dichloroethylene (total)	96				11785	4.00000	(a)
130	Ethyl Acetate	43	4.530	4.530	(0.942)	2641	2.00000	1.88(aM)
131	Methyl Acrylate	55	4.369	4.369	(0.908)	6560	2.00000	2.97(a)
189	n-Butyl acetate	43	7.702	7.702	(0.941)	9270	2.00000	3.06(a)
134	Cyclohexanone	55	9.152	9.152	(0.900)	5886	40.0000	68.72(aQ)
185	Isoprene	39	2.154	2.154	(0.448)	1117	2.00000	2.38(a)
188	Isopropyl acetate	43	5.280	5.280	(0.951)	16296	2.00000	2.49(a)
150	Allyl alcohol	57	3.338	3.338	(0.694)	3933	40.0000	44.89
194	Acetaldehyde	44	1.460	1.460	(0.304)	7034	8.00000	9.22(QM)
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	1946	2.00000	2.71(a)
202	Isobutylene	41	1.749	1.749	(0.363)	1107	2.00000	1.76(aM)
133	Ethyl Acrylate	55	5.943	5.943	(1.235)	9647	2.00000	2.29(aM)
163	Butyl methacrylate	41	9.647	9.647	(0.949)	6327	2.00000	1.50(aQ)
159	Propylene oxide	43	2.199	2.199	(0.457)	1292	4.00000	5.63(Q)
178	Ethylene oxide	44	1.606	1.606	(0.334)	15876	4.00000	8.05(M)
203	2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	4181	2.00000	2.62(a)
204	Tetrahydrothiophene	60	7.672	7.672	(0.938)	5632	2.00000	2.89(aA)
205	sec-Butyl Ether	57	7.214	7.214	(0.882)	6713	2.00000	1.76(aA)

187 n-Amyl acetate	43	8.927	8.927 (1.091)	9925	2.00000	2.66(aQM)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240608.b\C060805.D
Date : 08-JUN-2024 16:59
Client ID: VSTD002
Sample Info: VSTD002;VSTD0021;1;4
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

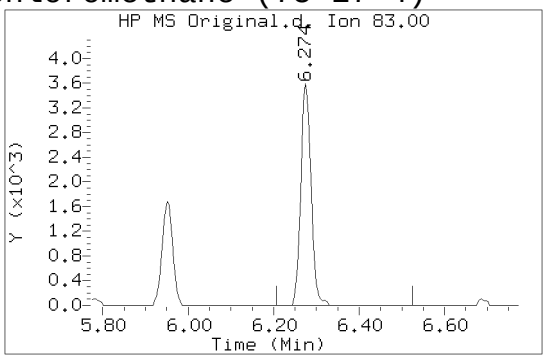
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Inj Date : 08-JUN-2024 16:59
InstruID : VOA9.i
LabSampID : VSTD002

Bromodichloromethane (75-27-4)

Reason Code:

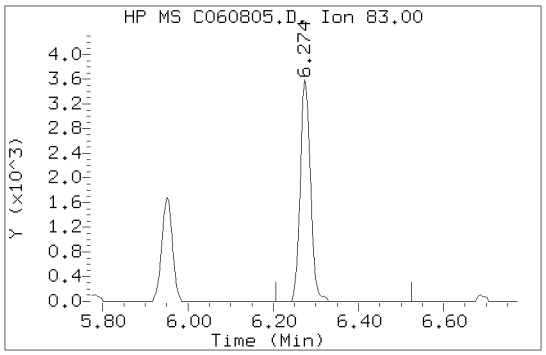
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MASS
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21-Jun-2024
10:55
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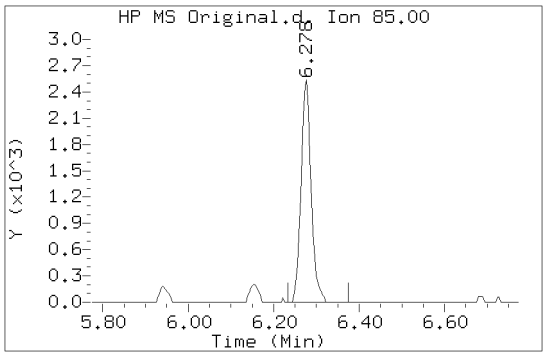
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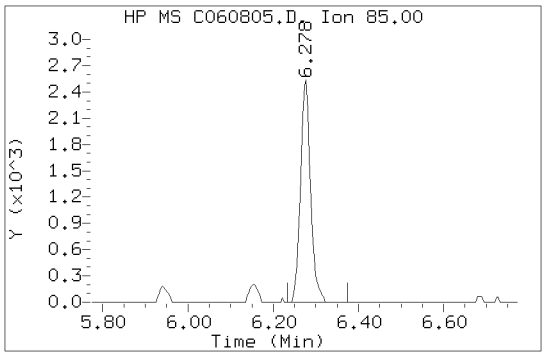
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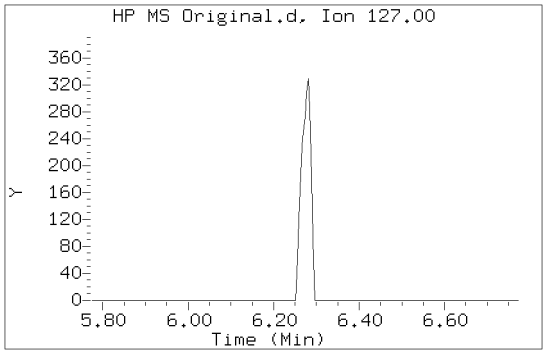
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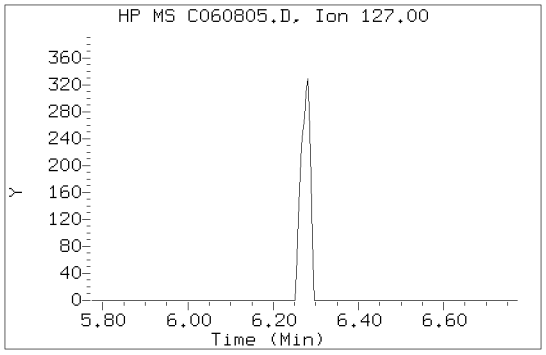
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AFTER

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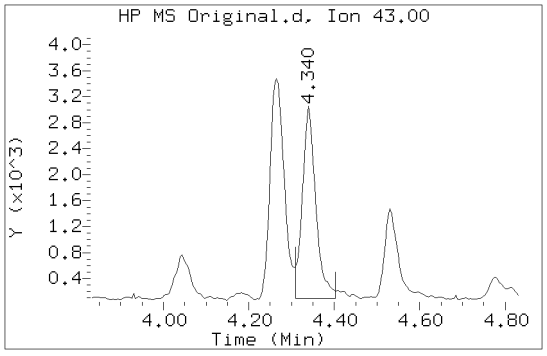


Vinyl Acetate (108-05-4)

Reason Code:

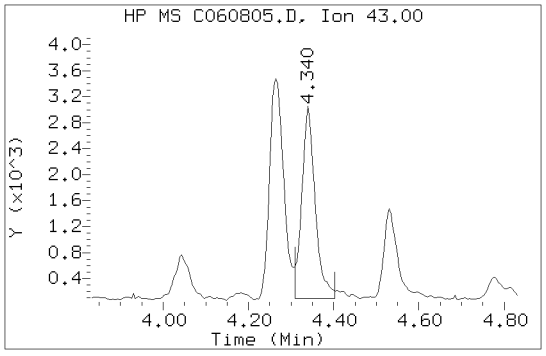
BEFORE

MASS
43
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6627
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2967
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
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21-Jun-2024
10:55
RUCHA
PATEL



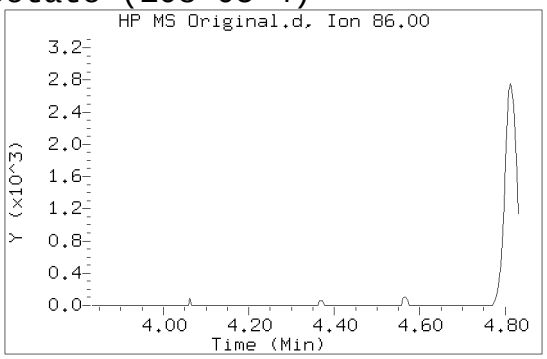
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Inj Date : 08-JUN-2024 16:59
InstruID : VOA9.i
LabSampID : VSTD002

Vinyl Acetate (108-05-4)

Reason Code:

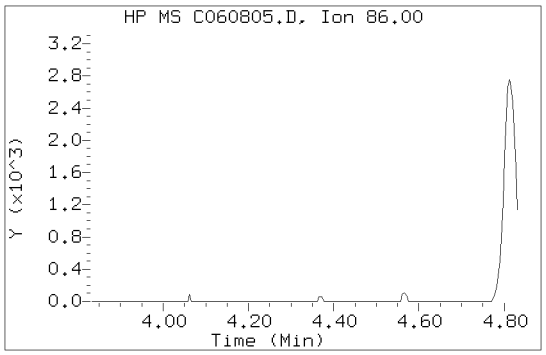
BEFORE

MASS
86
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HEIGHT
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21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
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HEIGHT
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21-Jun-2024
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PATEL

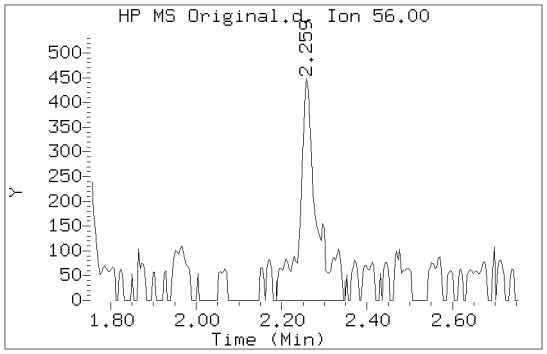


Acrolein (107-02-8)

Reason Code:

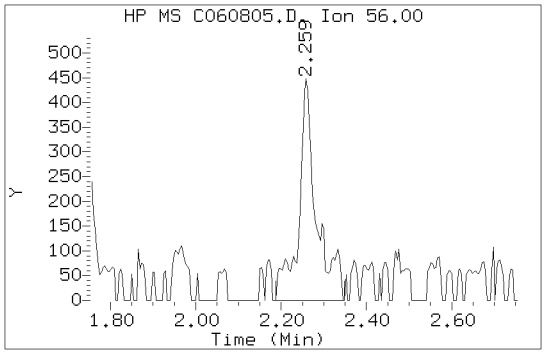
BEFORE

MASS
56
AREA
1308
HEIGHT
448
21-Jun-2024
10:55
RUCHA
PATEL



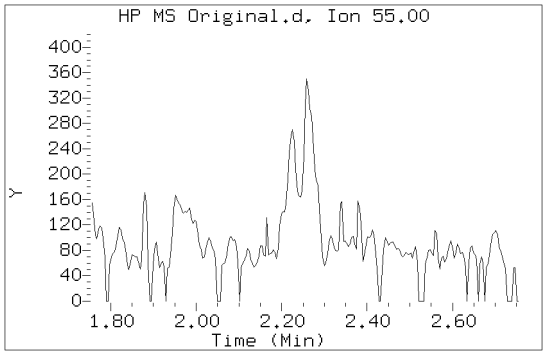
AFTER

MASS
56
AREA
1308
HEIGHT
448
21-Jun-2024
10:55
RUCHA
PATEL



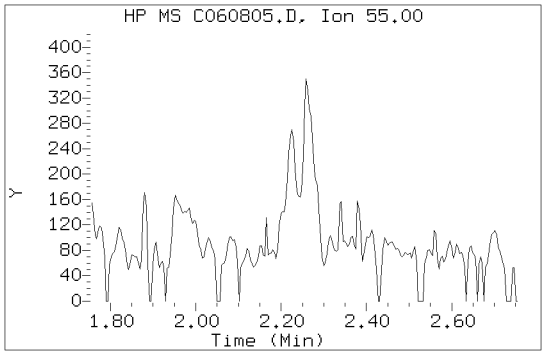
BEFORE

MASS
55
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
55
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL

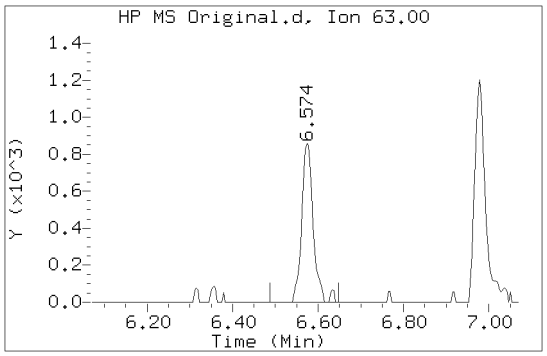


2-Chloroethylvinyl ether (110-75-8)

Reason Code:

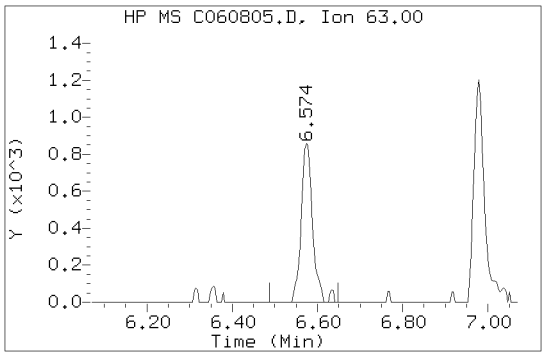
BEFORE

MASS
63
AREA
1652
HEIGHT
860
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
63
AREA
1652
HEIGHT
860
21-Jun-2024
10:55
RUCHA
PATEL



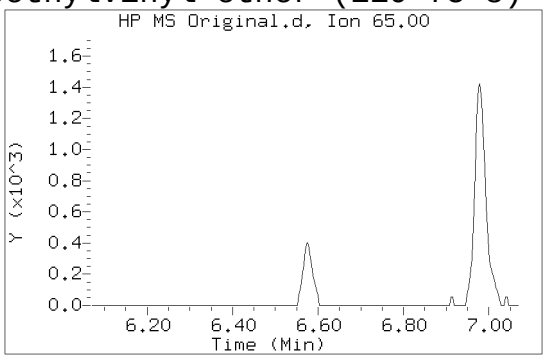
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Inj Date : 08-JUN-2024 16:59
InstruID : VOA9.i
LabSampID : VSTD002

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

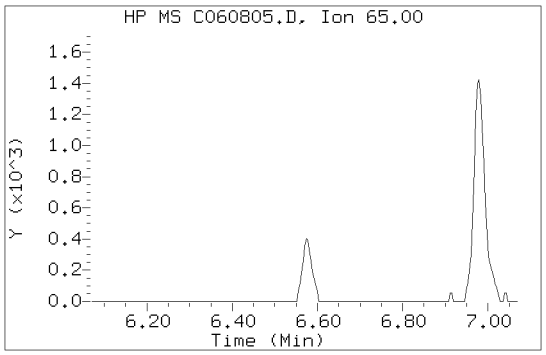
BEFORE

MASS
65
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



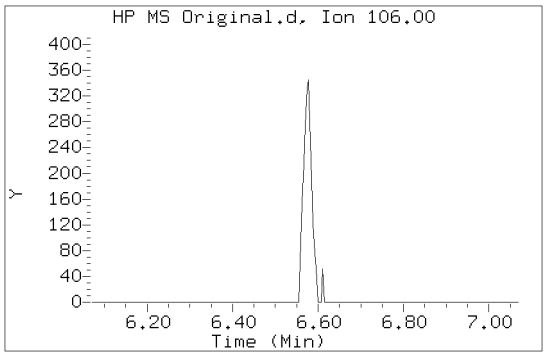
AFTER

MASS
65
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



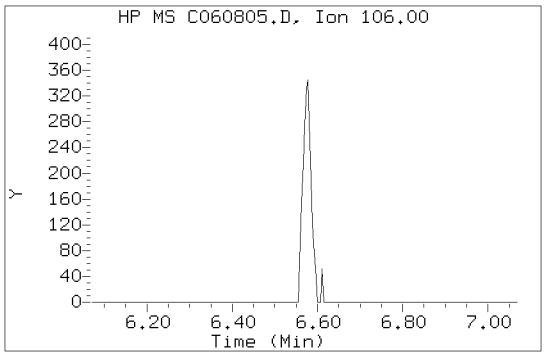
BEFORE

MASS
106
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
106
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL

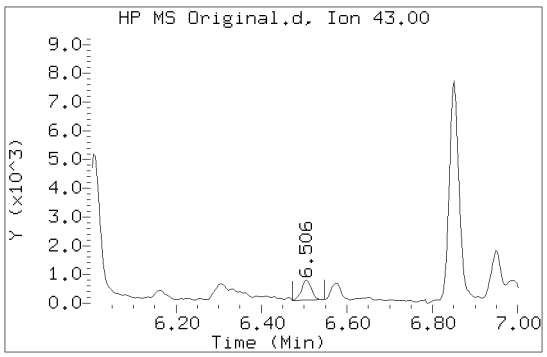


2-Nitropropane (79-46-9)

Reason Code:

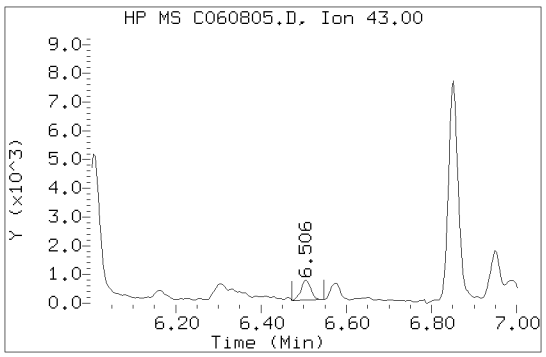
BEFORE

MASS
43
AREA
1117
HEIGHT
698
21-Jun-2024
10:55
RUCHA
PATEL



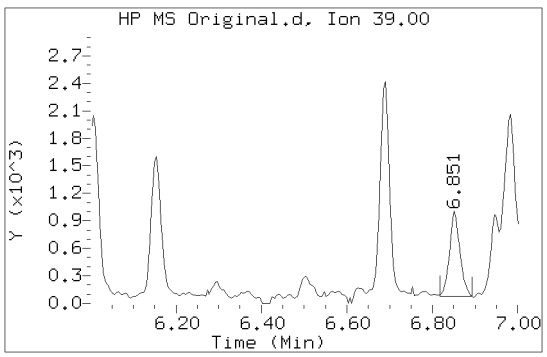
AFTER

MASS
43
AREA
1117
HEIGHT
698
21-Jun-2024
10:55
RUCHA
PATEL



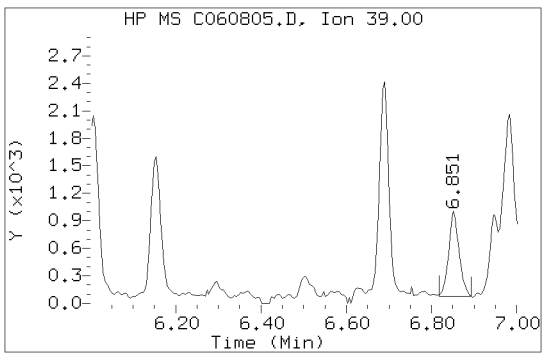
BEFORE

MASS
39
AREA
1575
HEIGHT
936
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
39
AREA
1575
HEIGHT
936
21-Jun-2024
10:55
RUCHA
PATEL



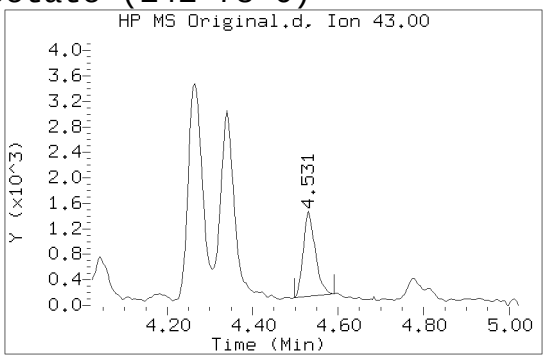
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240608.b\C060805.D
Inj Date : 08-JUN-2024 16:59
InstruID : VOA9.i
LabSampID : VSTD002

Ethyl Acetate (141-78-6)

Reason Code:

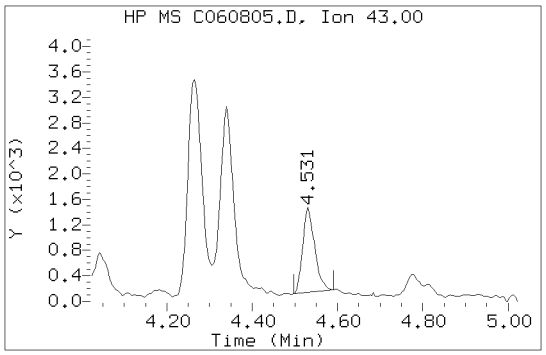
BEFORE

MASS
43
AREA
2641
HEIGHT
1333
21-Jun-2024
10:55
RUCHA
PATEL



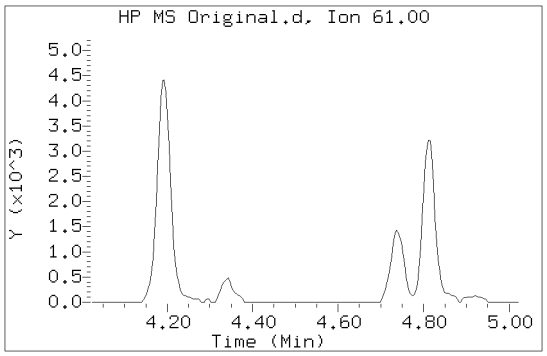
AFTER

MASS
43
AREA
2641
HEIGHT
1333
21-Jun-2024
10:55
RUCHA
PATEL



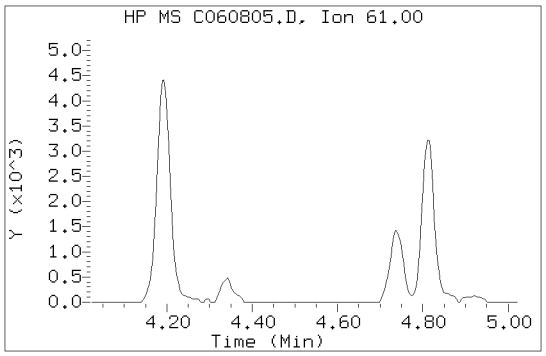
BEFORE

MASS
61
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



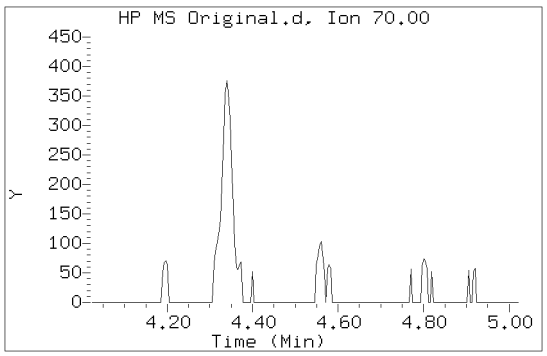
AFTER

MASS
61
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



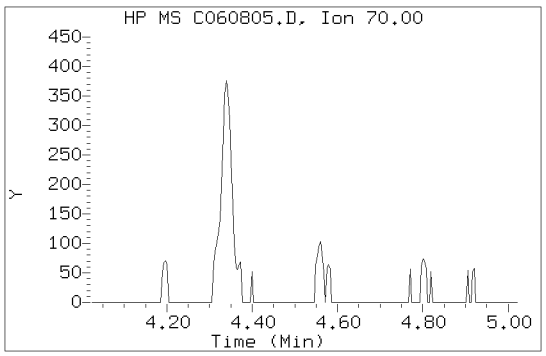
BEFORE

MASS
70
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
70
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL

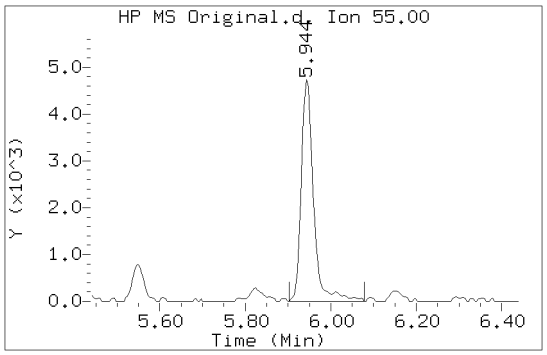


Ethyl Acrylate (140-88-5)

Reason Code:

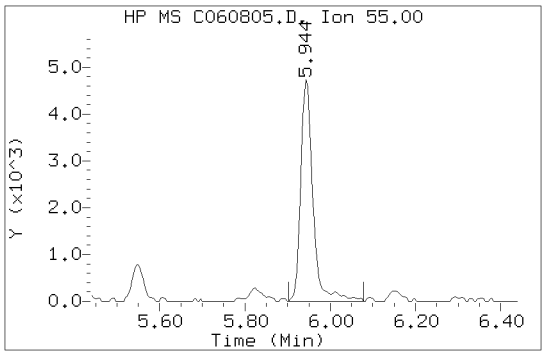
BEFORE

MASS
55
AREA
9647
HEIGHT
4735
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
55
AREA
9647
HEIGHT
4735
21-Jun-2024
10:55
RUCHA
PATEL



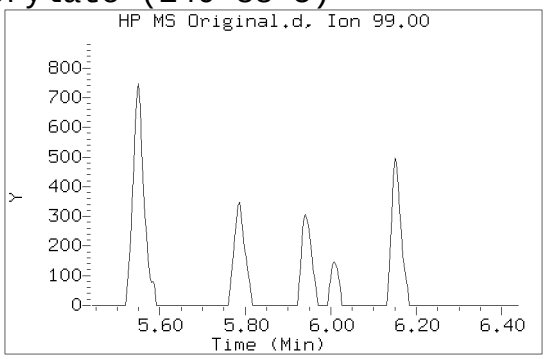
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240608.b\C060805.D
Inj Date : 08-JUN-2024 16:59
InstruID : VOA9.i
LabSampID : VSTD002

Ethyl Acrylate (140-88-5)

Reason Code:

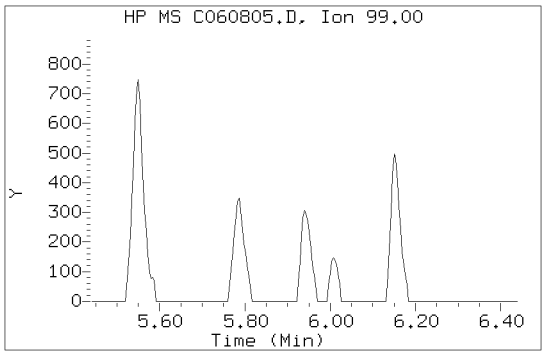
BEFORE

MASS
99
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
99
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL

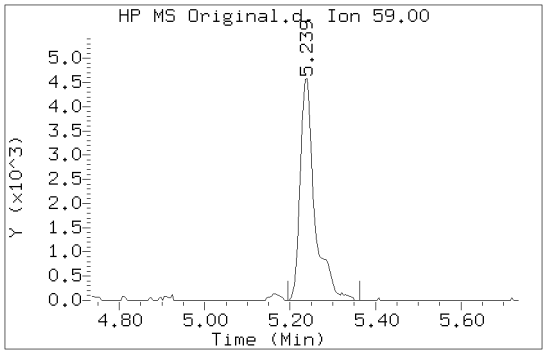


tert-Butyl formate (762-75-4)

Reason Code:

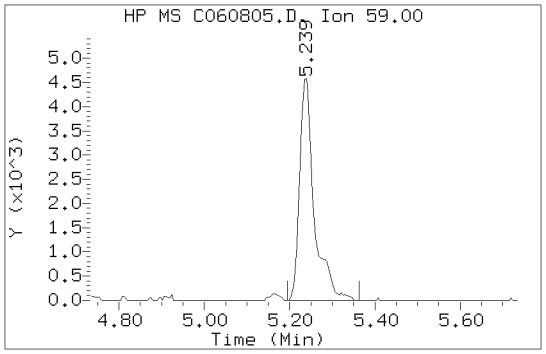
BEFORE

MASS
59
AREA
11113
HEIGHT
4577
21-Jun-2024
10:55
RUCHA
PATEL



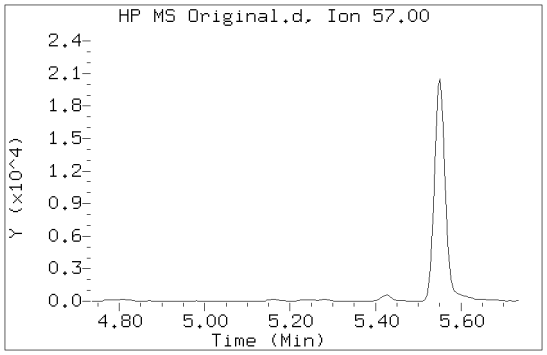
AFTER

MASS
59
AREA
11113
HEIGHT
4577
21-Jun-2024
10:55
RUCHA
PATEL



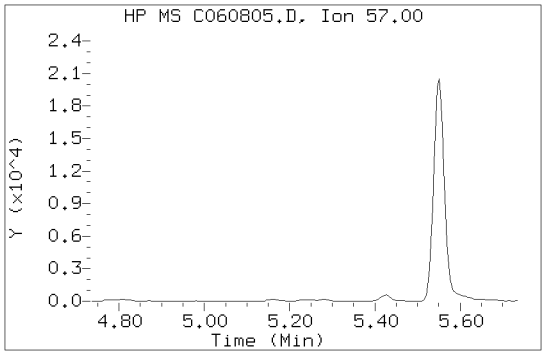
BEFORE

MASS
57
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



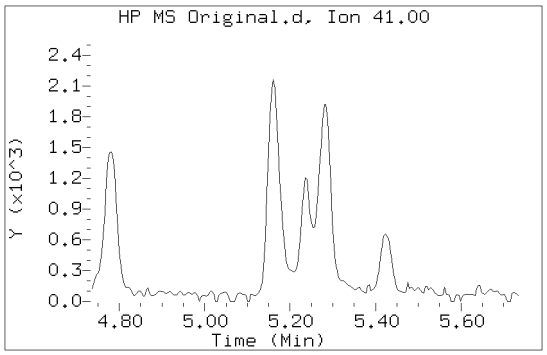
AFTER

MASS
57
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



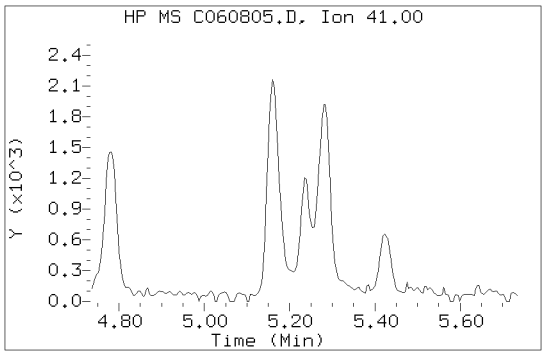
BEFORE

MASS
41
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
41
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



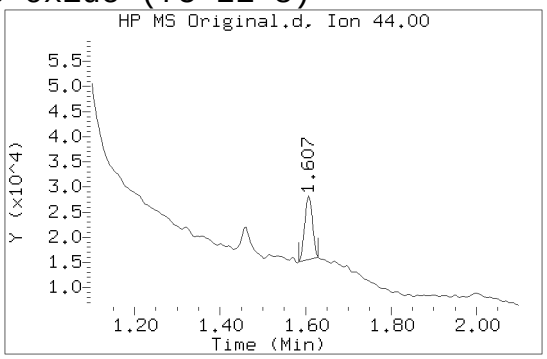
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Inj Date : 08-JUN-2024 16:59
InstruID : VOA9.i
LabSampID : VSTD002

Ethylene oxide (75-21-8)

Reason Code:

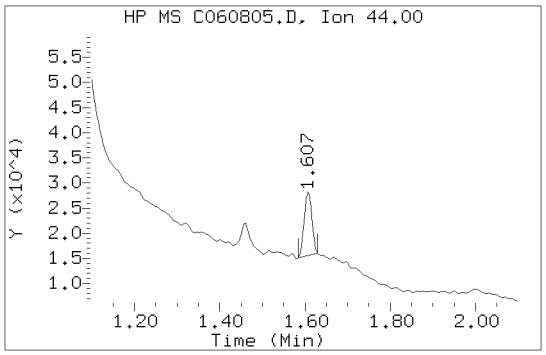
BEFORE

MASS
44
AREA
15876
HEIGHT
12705
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
44
AREA
15876
HEIGHT
12705
21-Jun-2024
10:55
RUCHA
PATEL

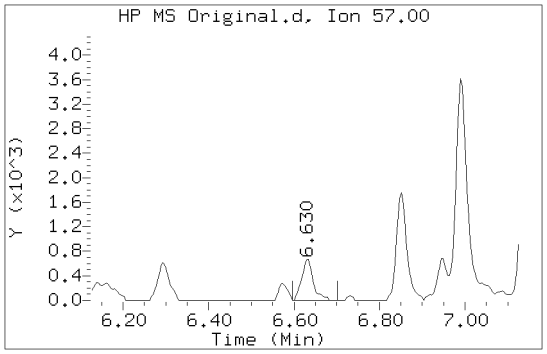


Epichlorohydrin (106-89-8)

Reason Code:

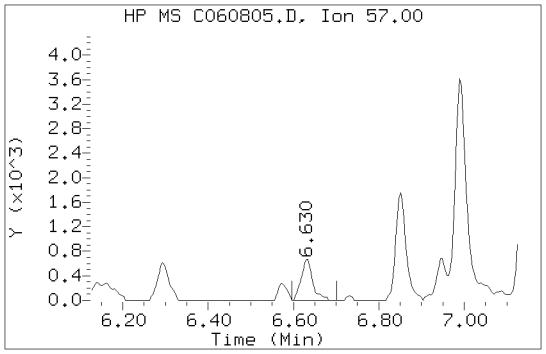
BEFORE

MASS
57
AREA
1289
HEIGHT
670
21-Jun-2024
10:55
RUCHA
PATEL



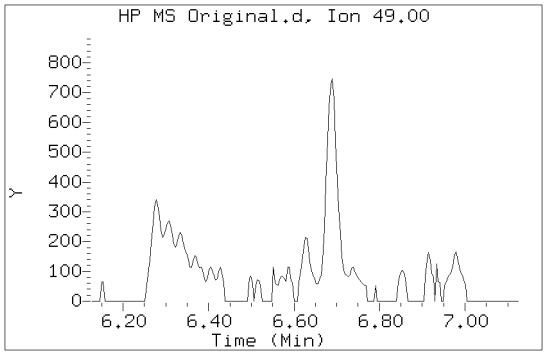
AFTER

MASS
57
AREA
1289
HEIGHT
670
21-Jun-2024
10:55
RUCHA
PATEL



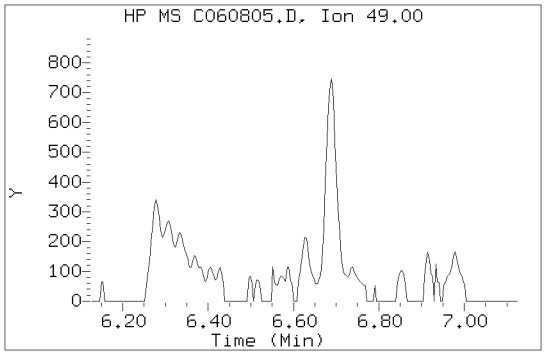
BEFORE

MASS
49
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
49
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL

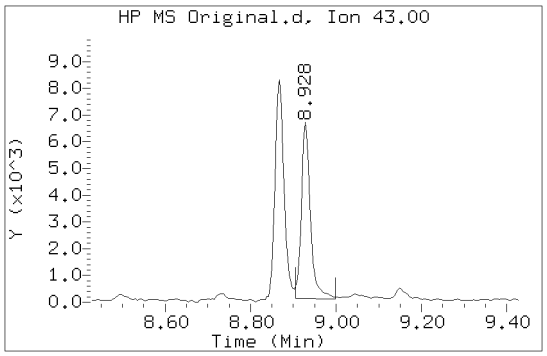


n-Amyl acetate (628-63-7)

Reason Code:

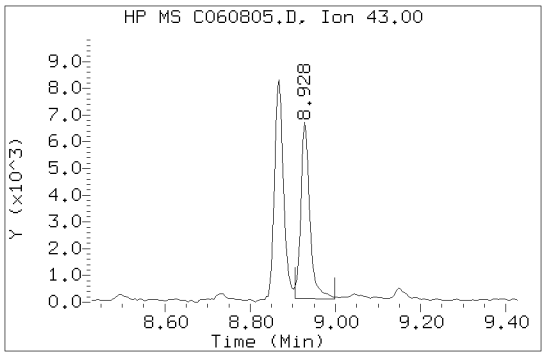
BEFORE

MASS
43
AREA
9925
HEIGHT
6590
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
43
AREA
9925
HEIGHT
6590
21-Jun-2024
10:55
RUCHA
PATEL



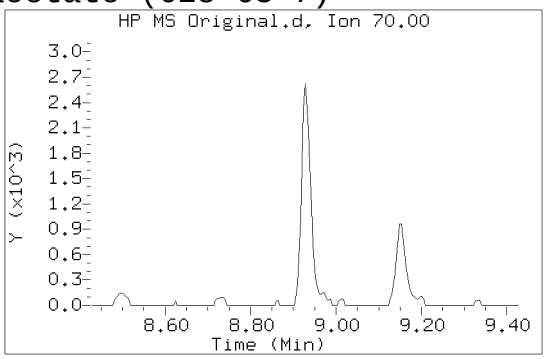
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240608.b\C060805.D
Inj Date : 08-JUN-2024 16:59
InstruID : VOA9.i
LabSampID : VSTD002

n-Amyl acetate (628-63-7)

Reason Code:

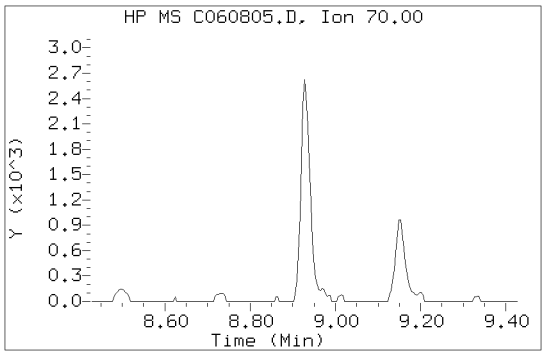
BEFORE

MASS
70
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



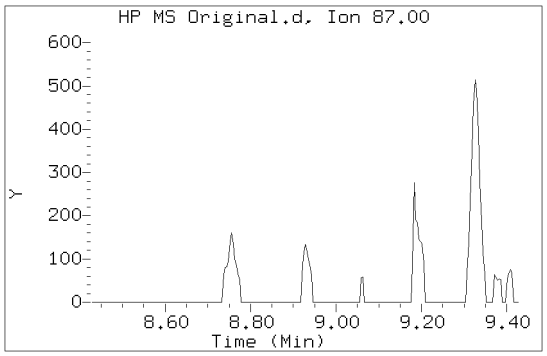
AFTER

MASS
70
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



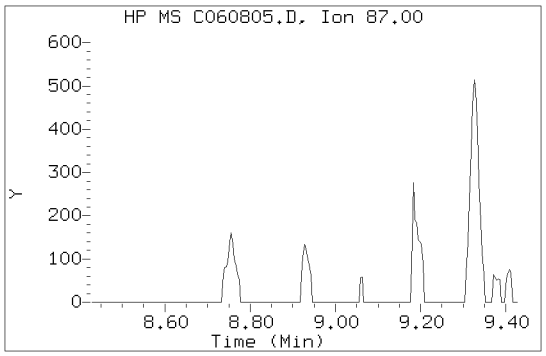
BEFORE

MASS
87
AREA
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0
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PATEL



AFTER

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21-Jun-2024
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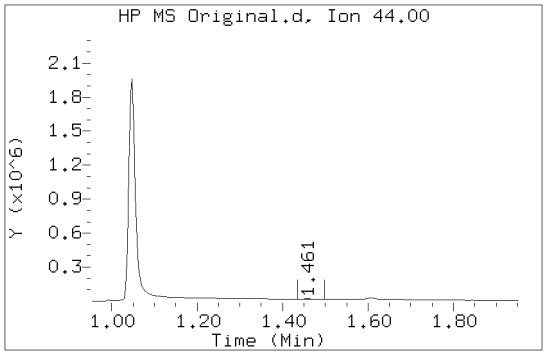


Acetaldehyde (75-07-0)

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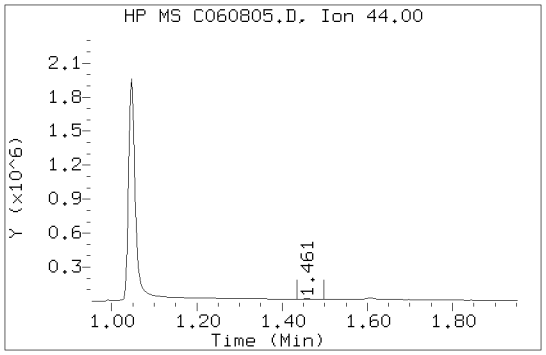
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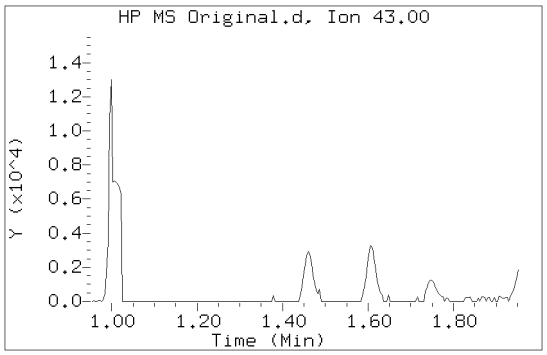
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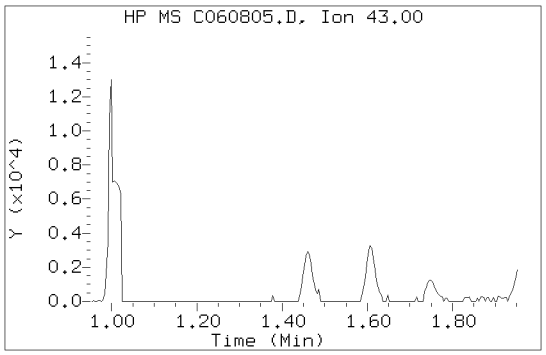
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AFTER

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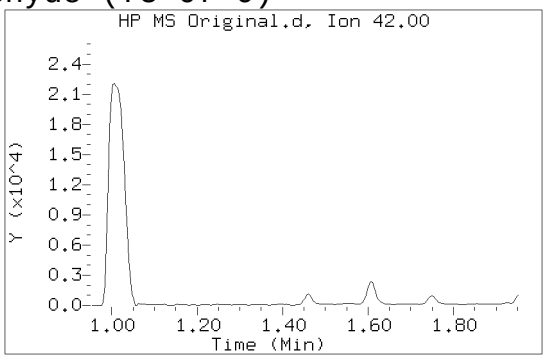
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LabSampID : VSTD002

Acetaldehyde (75-07-0)

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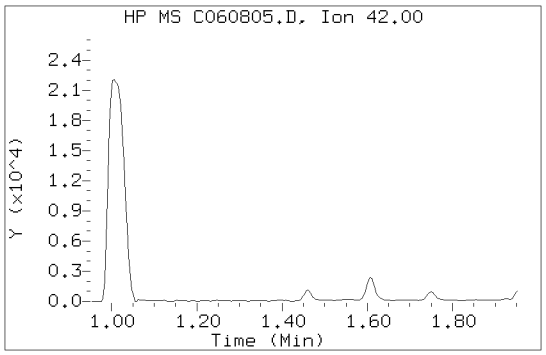
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AFTER

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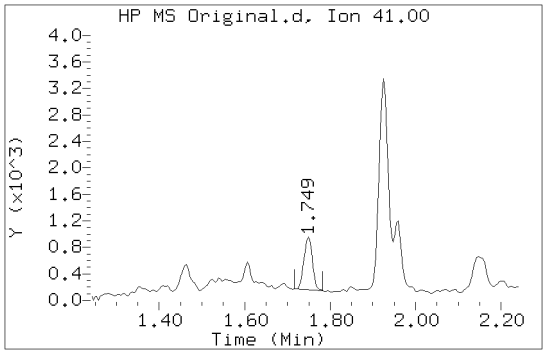


Isobutylene (115-11-7)

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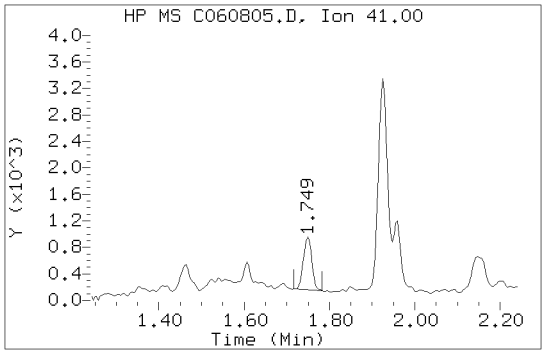
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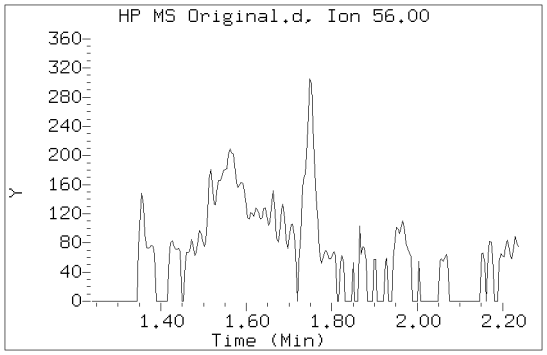
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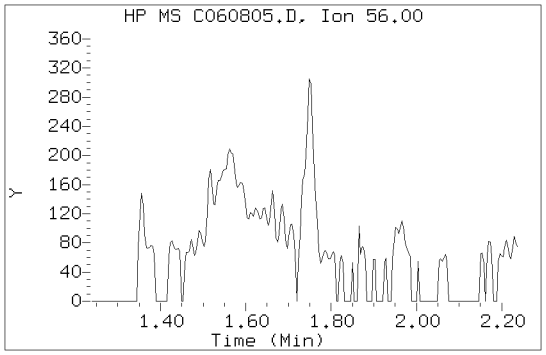
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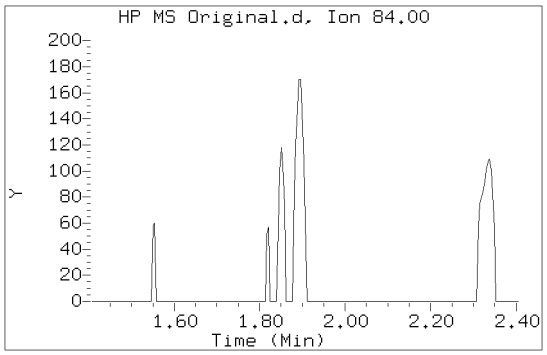
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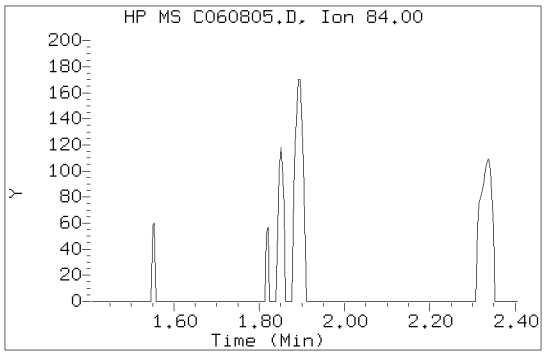
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AFTER

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21-Jun-2024
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Data File: \\NAHSTWS005\Target\chem\voa9.i\U240608.b\C060806.D Page 1
Report Date: 21-Jun-2024 10:56

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240608.b\C060806.D
Lab Smp Id: VSTD005 Client Smp ID: VSTD005
Inj Date : 08-JUN-2024 17:20
Operator : TS Inst ID: VOA9.i
Smp Info : VSTD005;VSTD005;1;5
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240608.b\8260C.m
Meth Date : 21-Jun-2024 10:56 VOA9.i Quant Type: ISTD
Cal Date : 08-JUN-2024 16:59 Cal File: C060805.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.815	4.815	(1.000)	270048	50.0000	
2	Dichlorodifluoromethane	85	1.168	1.168	(0.243)	7835	5.00000	4.26
3	Chloromethane	50	1.299	1.299	(0.270)	21208	5.00000	4.33
4	Propionitrile	54	4.339	4.339	(0.901)	12560	50.0000	41.21(a)
5	Vinyl Chloride	62	1.381	1.381	(0.287)	10774	5.00000	4.16
6	Bromomethane	94	1.621	1.621	(0.337)	5733	5.00000	4.04
7	Chloroethane	64	1.704	1.704	(0.354)	7077	5.00000	4.07
8	Trichlorofluoromethane	101	1.899	1.899	(0.394)	11695	5.00000	4.39(Q)
9	Acrolein	56	2.266	2.266	(0.471)	766	10.0000	6.83(a)
10	Acetone	43	2.408	2.408	(0.500)	10435	10.0000	9.42
11	1,1-Dichloroethene	96	2.333	2.333	(0.485)	7067	5.00000	4.22
12	Isobutyl Alcohol	43	5.284	5.284	(1.097)	22673	100.000	74.23(a)
13	Acetonitrile	39	2.671	2.671	(0.555)	9600	50.0000	42.90(a)
14	Allyl Chloride	41	2.675	2.675	(0.555)	23563	5.00000	4.29(a)
15	Iodomethane	142	2.468	2.468	(0.513)	3946	10.0000	7.75(Q)
16	Acrylonitrile	53	3.068	3.068	(0.637)	6607	10.0000	7.82
17	Methylene Chloride	84	2.795	2.795	(0.580)	9345	5.00000	3.81
18	Methyl tert-butyl ether	73	3.083	3.083	(0.640)	22492	5.00000	4.23
19	Carbon Disulfide	76	2.521	2.521	(0.524)	39724	10.0000	8.02
20	trans-1,2-Dichloroethene	96	3.057	3.057	(0.635)	8031	5.00000	4.19(Q)

21 Vinyl Acetate	43	4.343	4.343 (0.902)	8466	10.0000	7.51(M)
22 1,1-Dichloroethane	63	3.511	3.511 (0.729)	15393	5.00000	4.14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
23	Chloroprene	53	3.608	3.608	(0.749)	12034	5.00000	4.04(a)
24	2-Butanone	43	4.268	4.268	(0.886)	10346	10.0000	8.27
25	Methacrylonitrile	41	4.496	4.496	(0.934)	5403	5.00000	4.09(a)
26	2,2-Dichloropropane	77	4.182	4.182	(0.868)	10903	5.00000	4.14
27	cis-1,2-Dichloroethene	96	4.197	4.197	(0.872)	9251	5.00000	3.99
28	Chloroform	83	4.571	4.571	(0.949)	14876	5.00000	3.99
29	Bromochloromethane	128	4.466	4.466	(0.928)	4522	5.00000	3.98
$ 30	Dibromofluoromethane	113	4.748	4.748	(0.986)	9311	5.00000	4.49
31	1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	10828	5.00000	4.02
32	1,1-Dichloropropene	75	4.920	4.920	(0.887)	10906	5.00000	4.21
33	1,2-Dichloroethane	62	5.175	5.175	(0.932)	11740	5.00000	3.66
34	Carbon Tetrachloride	117	4.909	4.909	(0.885)	8346	5.00000	3.83
$ 35	1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	11955	5.00000	4.40
* 36	1,4-Difluorobenzene	114	5.550	5.550	(1.000)	395339	50.0000	
37	Benzene	78	5.137	5.137	(0.926)	34643	5.00000	4.16
38	Trichloroethene	130	5.786	5.786	(1.043)	8330	5.00000	4.20(a)
39	Bromodichloromethane	83	6.277	6.277	(1.131)	8417	5.00000	3.52(a)
40	Methyl Methacrylate	41	5.820	5.820	(1.209)	2852	5.00000	3.49(aQ)
41	2-Chloroethylvinyl ether	63	6.577	6.577	(1.185)	2332	10.0000	9.28(QM)
42	1,2-Dichloropropane	63	6.007	6.007	(1.082)	9081	5.00000	4.06(aQ)
43	2-Nitropropane	43	6.506	6.506	(1.351)	1651	5.00000	4.48(aM)
44	Dibromomethane	93	6.116	6.116	(1.102)	5206	5.00000	4.04(a)
45	4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	16817	10.0000	8.43
46	cis-1,3-Dichloropropene	75	6.689	6.689	(1.205)	10145	5.00000	3.43(a)
* 47	Chlorobenzene-d5	117	8.181	8.181	(1.000)	354456	50.0000	
$ 48	Toluene-d8	98	6.922	6.922	(0.846)	34899	5.00000	4.69(a)
49	Ethyl Methacrylate	69	7.289	7.289	(1.313)	10148	5.00000	4.28(a)
50	Toluene	91	6.978	6.978	(0.853)	33450	5.00000	4.05(a)
51	trans-1,3-Dichloropropene	75	7.195	7.195	(1.297)	7885	5.00000	3.35(a)
52	2-Hexanone	43	7.214	7.214	(0.882)	15052	10.0000	8.76(Q)
53	1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	6651	5.00000	3.99(a)
54	1,3-Dichloropropane	76	7.495	7.495	(0.916)	14177	5.00000	4.05(a)
55	Dibromochloromethane	129	7.687	7.687	(0.940)	5696	5.00000	3.31(a)
56	Tetrachloroethene	164	7.454	7.454	(0.911)	6525	5.00000	4.07(a)
57	1,2-Dibromoethane	107	7.784	7.784	(0.951)	6931	5.00000	3.98(a)
58	1-Chlorohexane	55	8.193	8.193	(1.476)	9549	5.00000	4.51(aQ)
59	Chlorobenzene	112	8.208	8.208	(1.003)	23071	5.00000	4.16(a)
60	1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	6571	5.00000	4.31(a)
61	Ethylbenzene	106	8.305	8.305	(1.015)	10751	5.00000	3.93(a)
62	m,p-Xylenes	106	8.410	8.410	(1.028)	26826	10.0000	7.91(a)
63	o-Xylene	106	8.747	8.747	(1.069)	13165	5.00000	3.97(a)
64	Styrene	104	8.759	8.759	(1.071)	20310	5.00000	3.83(a)
66	Bromoform	173	8.916	8.916	(1.090)	3394	5.00000	4.28(Ta)
67	Isopropylbenzene	105	9.059	9.059	(1.107)	32657	5.00000	4.11(a)
68	1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	10999	5.00000	3.99(a)
$ 69	4-Bromofluorobenzene	95	9.190	9.190	(1.123)	13384	5.00000	4.57(a)
* 70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	188462	50.0000	
71	1,2,3-Trichloropropane	75	9.358	9.358	(0.920)	10660	5.00000	3.72(a)
72	trans-1,4-Dichloro-2-butene	53	9.373	9.373	(1.146)	2410	5.00000	4.03(a)
73	n-Propylbenzene	91	9.411	9.411	(0.926)	37159	5.00000	4.06(a)
74	Bromobenzene	156	9.313	9.313	(0.916)	9372	5.00000	4.07(a)
75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	22481	5.00000	3.98(a)

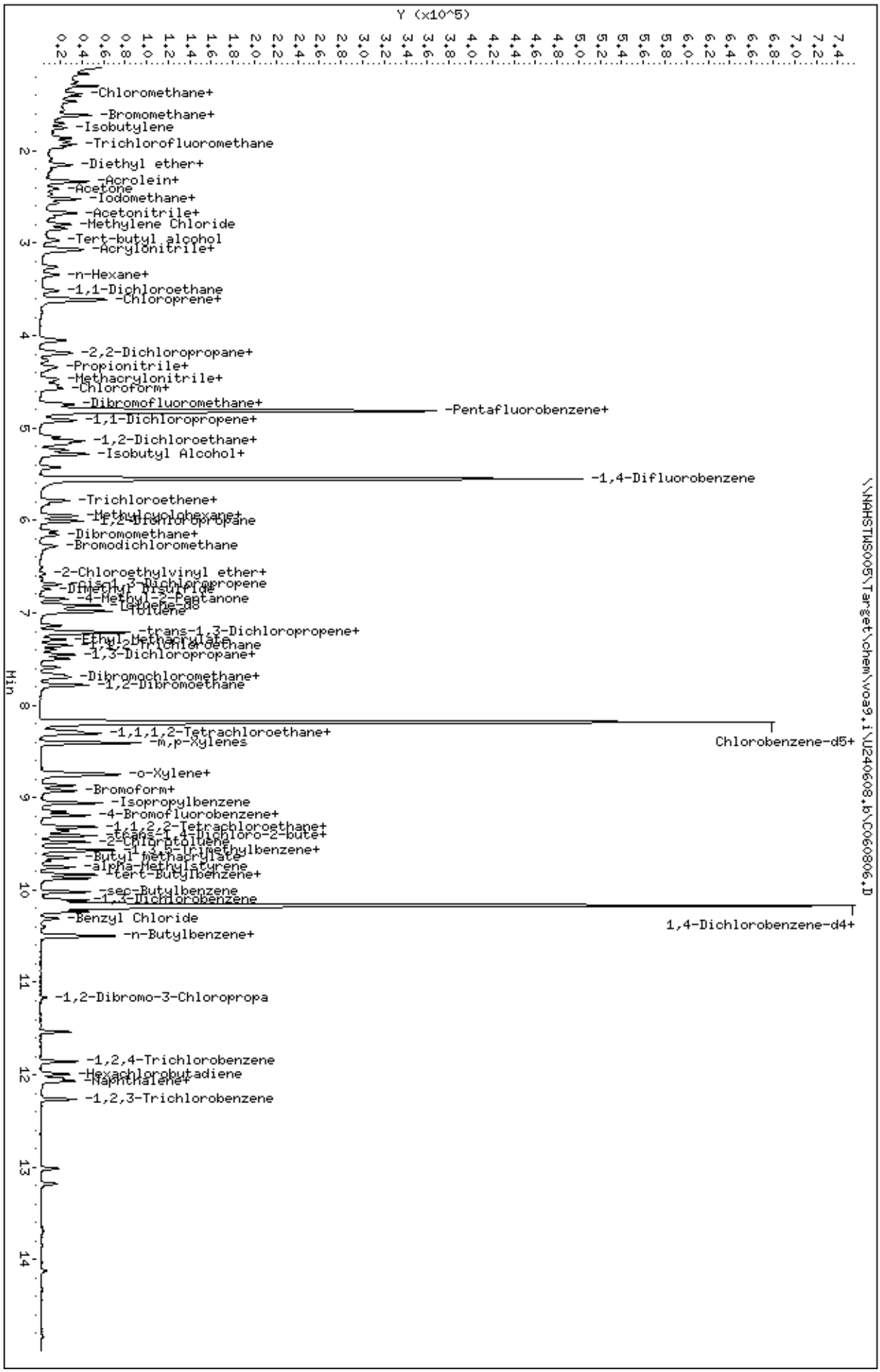
76	2-Chlorotoluene	91	9.482	9.482 (0.933)	23903	5.00000	4.17(a)
77	4-Chlorotoluene	91	9.576	9.576 (0.942)	27197	5.00000	3.92(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	22139	5.00000	4.09(a)
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	23396	5.00000	3.63(a)
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	29518	5.00000	4.04(a)
82	p-Isopropyltoluene	119	10.142	10.142	(0.997)	24701	5.00000	3.92(a)
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	16437	5.00000	3.80(a)
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	18267	5.00000	4.17(a)
86	Benzyl Chloride	91	10.307	10.307	(1.260)	11227	5.00000	4.30(a)
87	n-Butylbenzene	91	10.491	10.491	(1.032)	22748	5.00000	3.95(a)
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	17105	5.00000	4.14(a)
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	1134	5.00000	4.16(a)
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	10495	5.00000	3.87(a)
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	4469	5.00000	4.34(a)
92	Naphthalene	128	12.065	12.065	(1.187)	22000	5.00000	3.96(a)
93	1,2,3-Trichlorobenzene	180	12.267	12.267	(1.206)	9722	5.00000	4.18(a)
146	Methyl acetate	43	2.716	2.716	(0.564)	7281	5.00000	3.86(a)
138	Freon TF	101	2.337	2.337	(0.485)	7167	5.00000	4.66(a)
141	Cyclohexane	56	4.785	4.785	(0.994)	14685	5.00000	3.96(aQ)
142	Tetrahydrofuran	42	4.545	4.545	(0.944)	4079	10.0000	9.05
147	Methylcyclohexane	55	5.947	5.947	(1.072)	17998	5.00000	4.34(a)
135	1,4-Dioxane	88	6.168	6.168	(1.281)	2390	100.000	83.35
132	n-Butanol	56	5.823	5.823	(1.209)	4530	100.000	89.97(a)
136	n-Hexane	57	3.342	3.342	(0.694)	7755	5.00000	4.44(aQ)
139	Diethyl ether	59	2.146	2.146	(0.446)	7007	5.00000	4.51(aQ)
148	Tert-butyl alcohol	59	2.967	2.967	(0.616)	16278	100.000	81.63
149	Isopropyl alcohol	45	2.566	2.566	(0.533)	12499	100.000	80.83(T)
156	Diisopropyl ether	45	3.619	3.619	(0.752)	27297	5.00000	4.15(Ta)
162	Butyl acrylate	55	8.732	8.732	(1.067)	14905	5.00000	4.64(aQ)
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	39437	5.00000	4.26(a)
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	22223	5.00000	4.26(a)
167	Ethanol	45	2.082	2.082	(0.433)	2415	100.000	93.15(Q)
172	tert-Butyl formate	59	5.239	5.239	(1.088)	15073	10.0000	8.43(M)
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	42218	100.000	82.22
140	1,3-Butadiene	54	1.404	1.404	(0.292)	4501	5.00000	4.39(a)
182	Epichlorohydrin	57	6.629	6.629	(1.195)	1723	20.0000	17.44(M)
M 94	1,2-Dichloroethylene (total)	96				17282	10.0000	(a)
130	Ethyl Acetate	43	4.534	4.534	(0.942)	3920	5.00000	3.91(aM)
131	Methyl Acrylate	55	4.373	4.373	(0.908)	9063	5.00000	4.15(a)
189	n-Butyl acetate	43	7.702	7.702	(0.941)	12372	5.00000	4.14(a)
134	Cyclohexanone	55	9.149	9.149	(0.900)	8841	100.000	96.90(aQ)
185	Isoprene	39	2.157	2.157	(0.448)	2013	5.00000	4.44(aQ)
188	Isopropyl acetate	43	5.284	5.284	(0.952)	22823	5.00000	3.82(a)
150	Allyl alcohol	57	3.342	3.342	(0.694)	7755	100.000	88.83
194	Acetaldehyde	44	1.464	1.464	(0.304)	10599	20.0000	15.74(QM)
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	3542	5.00000	4.10(a)
202	Isobutylene	41	1.752	1.752	(0.364)	3664	5.00000	4.50(aM)
133	Ethyl Acrylate	55	5.947	5.947	(1.235)	17998	5.00000	4.18(a)
163	Butyl methacrylate	41	9.647	9.647	(0.949)	8831	5.00000	3.04(aQ)
159	Propylene oxide	43	2.198	2.198	(0.457)	1931	10.0000	9.95(Q)
178	Ethylene oxide	44	1.610	1.610	(0.334)	21724	10.0000	9.73(M)
203	2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	7463	5.00000	4.10(a)
204	Tetrahydrothiophene	60	7.672	7.672	(0.938)	8029	5.00000	4.06(aA)
205	sec-Butyl Ether	57	7.214	7.214	(0.882)	16698	5.00000	4.46(aAM)

187 n-Amyl acetate	43	8.927	8.927 (1.091)	14761	5.00000	4.39(aQM)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240608.b\C060806.D
Date : 08-JUN-2024 17:20
Client ID: VSTD005
Sample Info: VSTD005;VSTD005;1;5
Purge Volume: 5.0
Column phase: DB624

\\NAHSTWS005\Target\chem\voa9.i\U240608.b\C060806.D

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

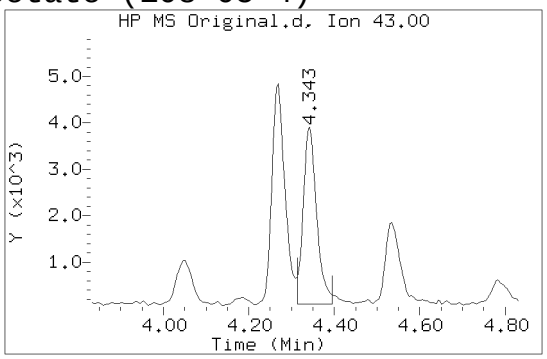
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Inj Date : 08-JUN-2024 17:20
InstruID : VOA9.i
LabSampID : VSTD005

Vinyl Acetate (108-05-4)

Reason Code:

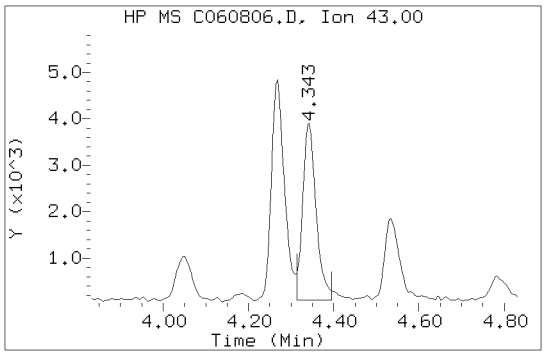
BEFORE

MASS
43
AREA
8466
HEIGHT
3808
21-Jun-2024
10:55
RUCHA
PATEL



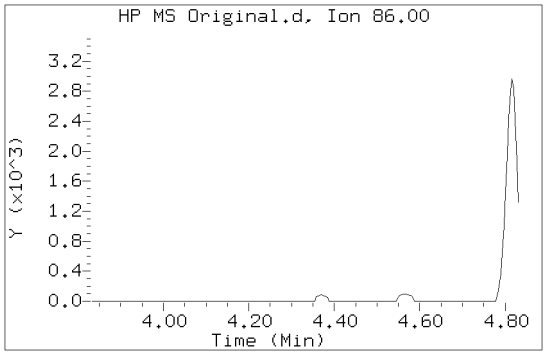
AFTER

MASS
43
AREA
8466
HEIGHT
3808
21-Jun-2024
10:55
RUCHA
PATEL



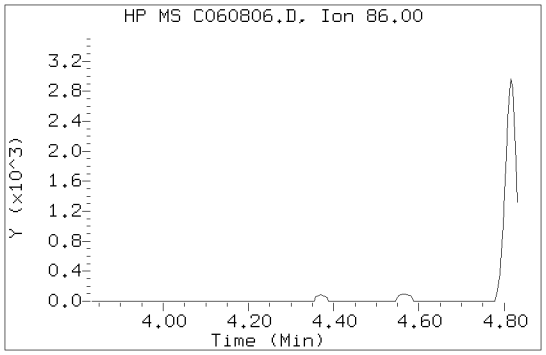
BEFORE

MASS
86
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
86
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL

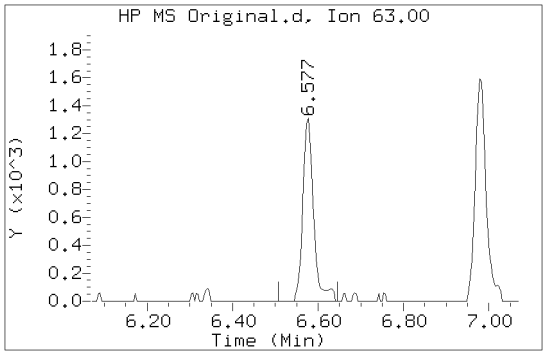


2-Chloroethylvinyl ether (110-75-8)

Reason Code:

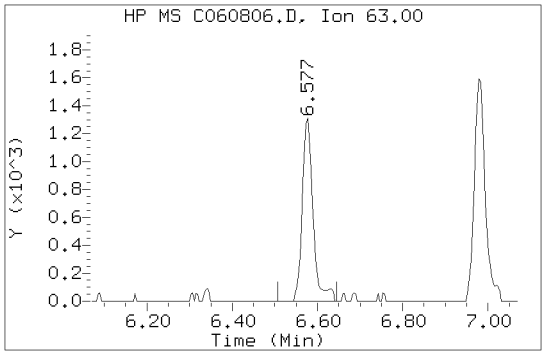
BEFORE

MASS
63
AREA
2332
HEIGHT
1312
21-Jun-2024
10:55
RUCHA
PATEL



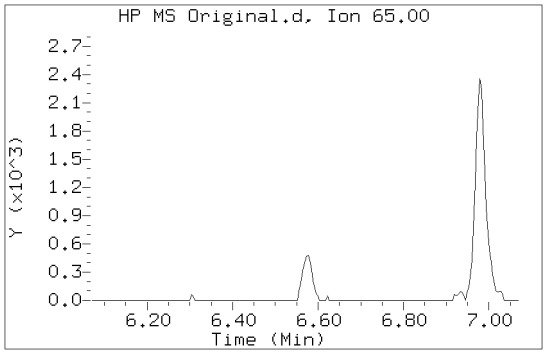
AFTER

MASS
63
AREA
2332
HEIGHT
1312
21-Jun-2024
10:55
RUCHA
PATEL



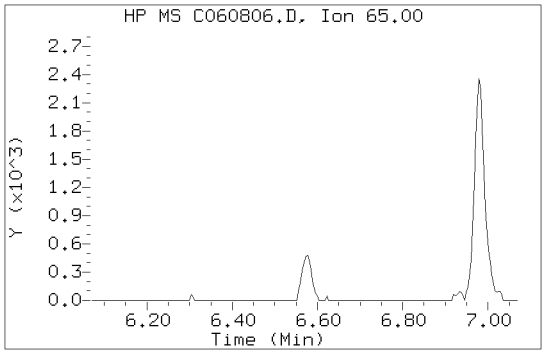
BEFORE

MASS
65
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
65
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



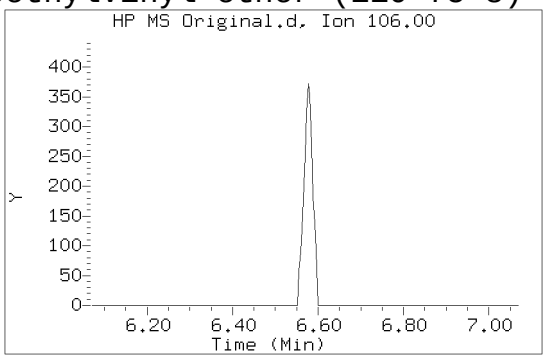
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Inj Date : 08-JUN-2024 17:20
InstruID : VOA9.i
LabSampID : VSTD005

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

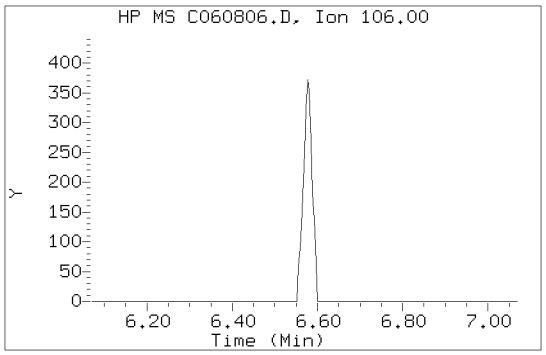
BEFORE

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AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
106
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL

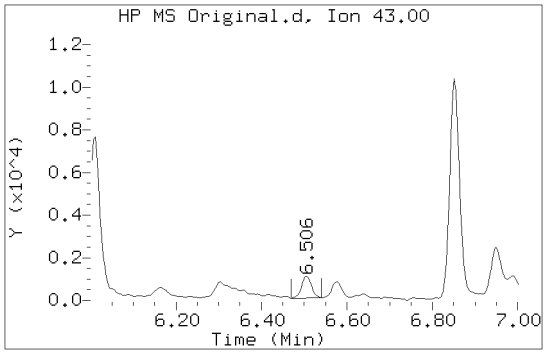


2-Nitropropane (79-46-9)

Reason Code:

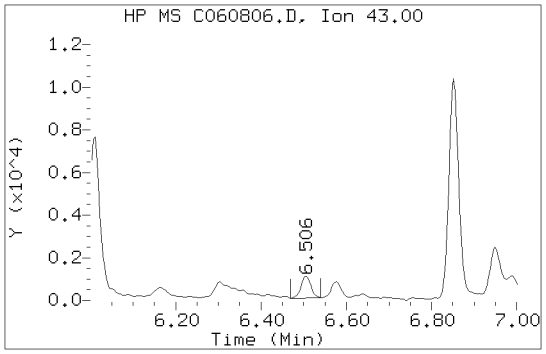
BEFORE

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AREA
1651
HEIGHT
991
21-Jun-2024
10:55
RUCHA
PATEL



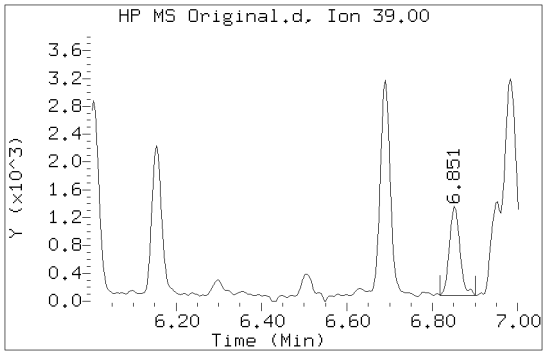
AFTER

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43
AREA
1651
HEIGHT
991
21-Jun-2024
10:55
RUCHA
PATEL



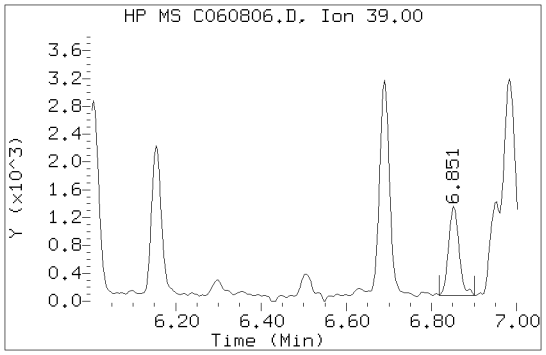
BEFORE

MASS
39
AREA
2187
HEIGHT
1279
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
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AREA
2187
HEIGHT
1279
21-Jun-2024
10:55
RUCHA
PATEL

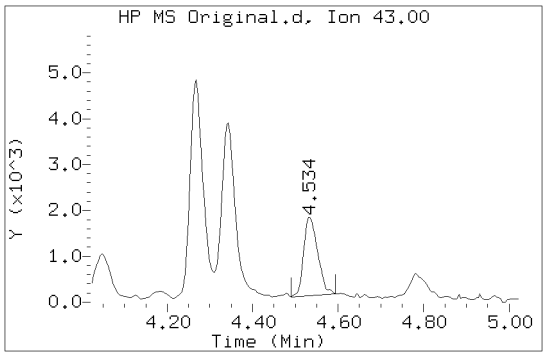


Ethyl Acetate (141-78-6)

Reason Code:

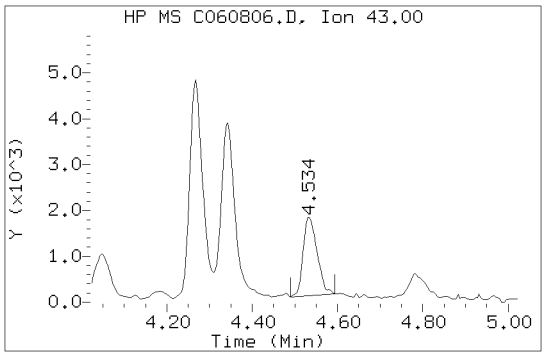
BEFORE

MASS
43
AREA
3920
HEIGHT
1702
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
43
AREA
3920
HEIGHT
1702
21-Jun-2024
10:55
RUCHA
PATEL



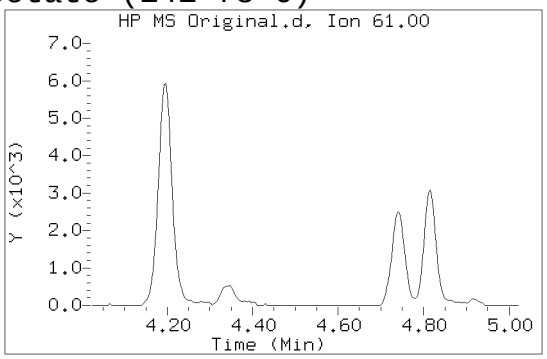
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Inj Date : 08-JUN-2024 17:20
InstruID : VOA9.i
LabSampID : VSTD005

Ethyl Acetate (141-78-6)

Reason Code:

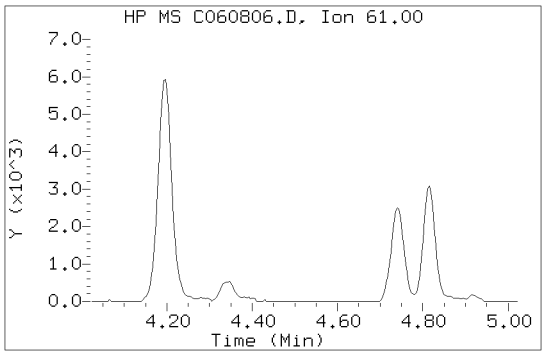
BEFORE

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AREA
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HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



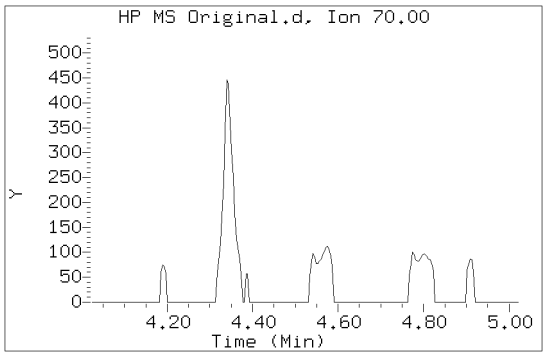
AFTER

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61
AREA
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HEIGHT
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21-Jun-2024
10:55
RUCHA
PATEL



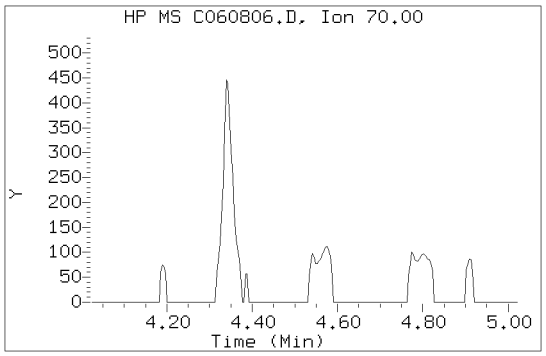
BEFORE

MASS
70
AREA
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HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
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AREA
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HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL

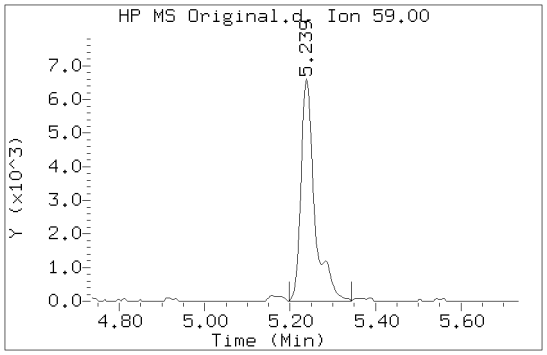


tert-Butyl formate (762-75-4)

Reason Code:

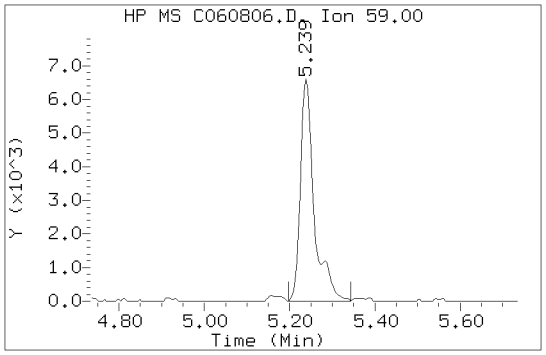
BEFORE

MASS
59
AREA
15073
HEIGHT
6612
21-Jun-2024
10:55
RUCHA
PATEL



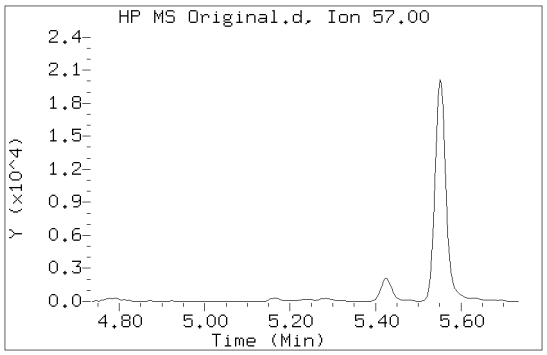
AFTER

MASS
59
AREA
15073
HEIGHT
6612
21-Jun-2024
10:55
RUCHA
PATEL



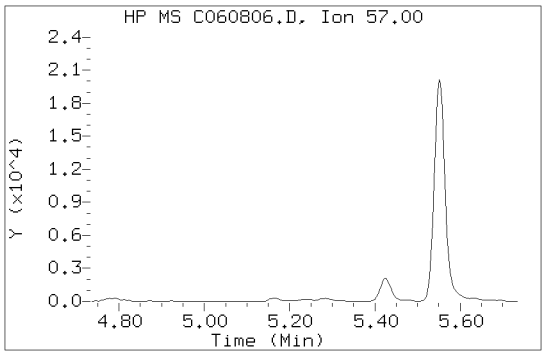
BEFORE

MASS
57
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
57
AREA
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HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



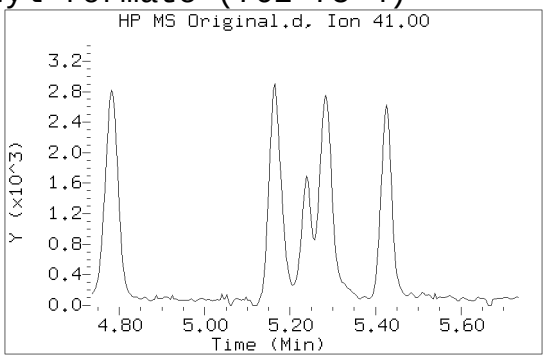
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Inj Date : 08-JUN-2024 17:20
InstruID : VOA9.i
LabSampID : VSTD005

tert-Butyl formate (762-75-4)

Reason Code:

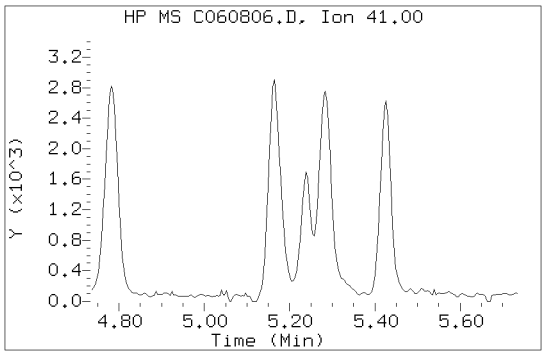
BEFORE

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HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
41
AREA
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HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL

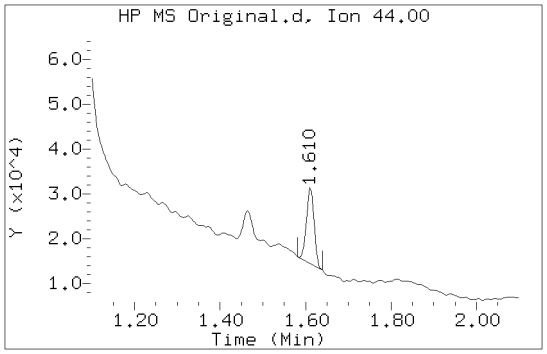


Ethylene oxide (75-21-8)

Reason Code:

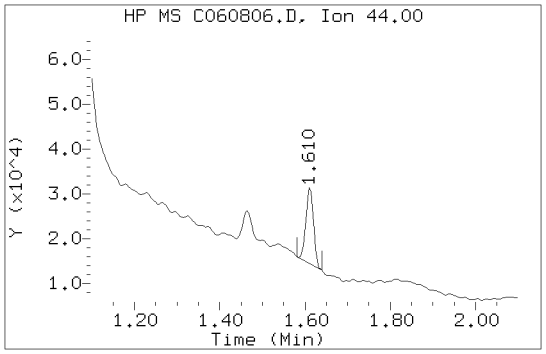
BEFORE

MASS
44
AREA
21724
HEIGHT
16920
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
44
AREA
21724
HEIGHT
16920
21-Jun-2024
10:55
RUCHA
PATEL

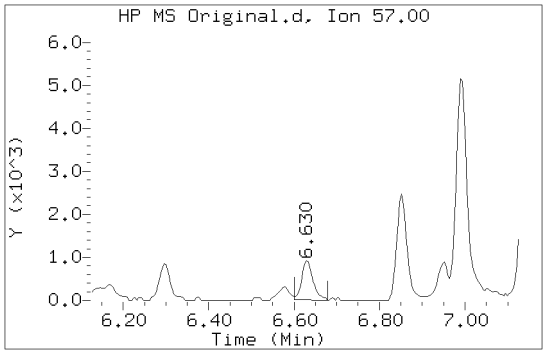


Epichlorohydrin (106-89-8)

Reason Code:

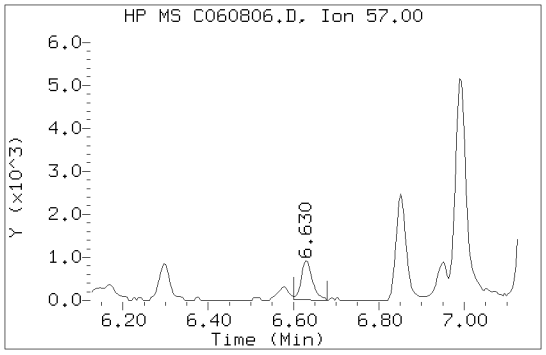
BEFORE

MASS
57
AREA
1723
HEIGHT
917
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
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AREA
1723
HEIGHT
917
21-Jun-2024
10:55
RUCHA
PATEL



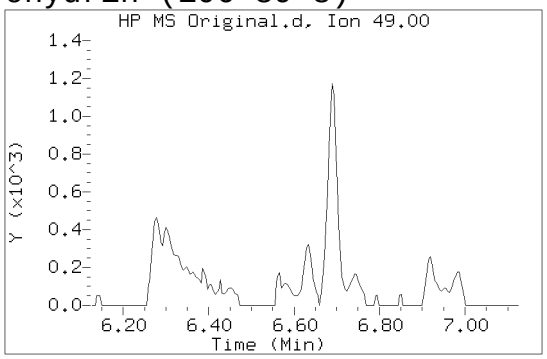
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Epichlorohydrin (106-89-8)

Reason Code:

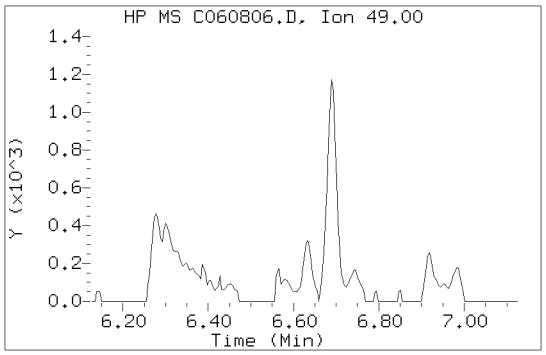
BEFORE

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HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
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AREA
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HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL

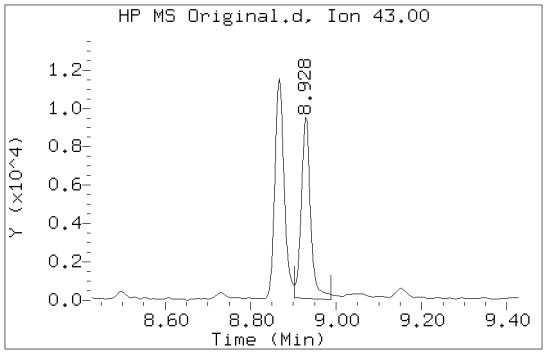


n-Amyl acetate (628-63-7)

Reason Code:

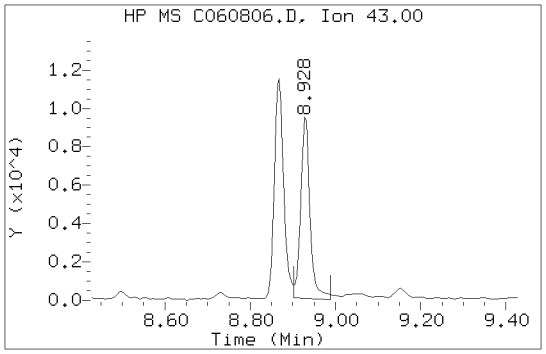
BEFORE

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AREA
14761
HEIGHT
9466
21-Jun-2024
10:55
RUCHA
PATEL



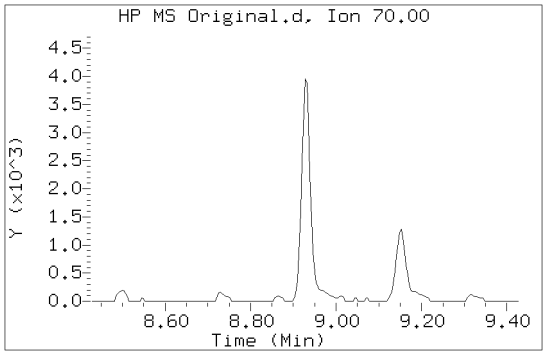
AFTER

MASS
43
AREA
14761
HEIGHT
9466
21-Jun-2024
10:55
RUCHA
PATEL



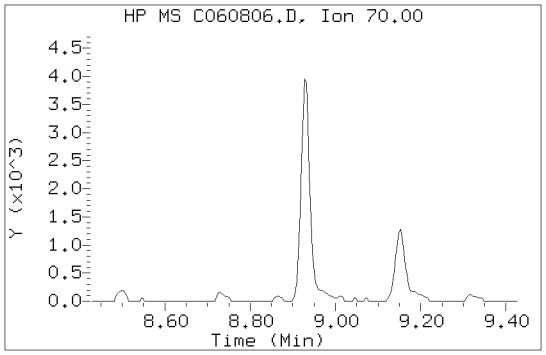
BEFORE

MASS
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AREA
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HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



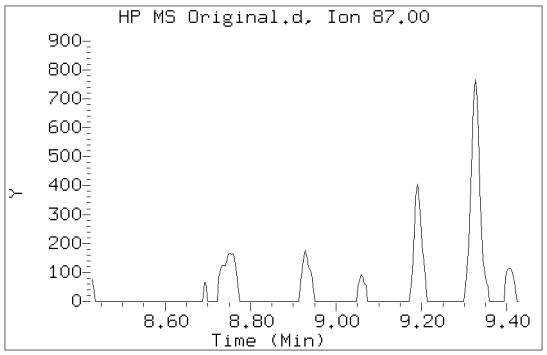
AFTER

MASS
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AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



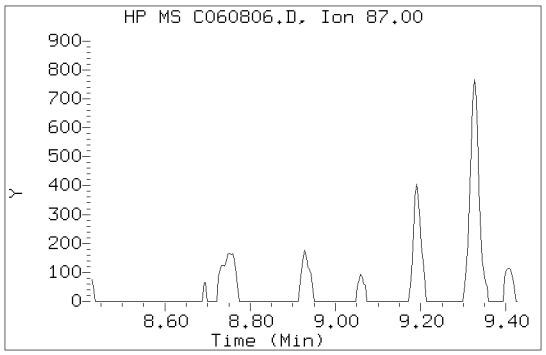
BEFORE

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87
AREA
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HEIGHT
0
21-Jun-2024
10:55
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PATEL



AFTER

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AREA
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HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



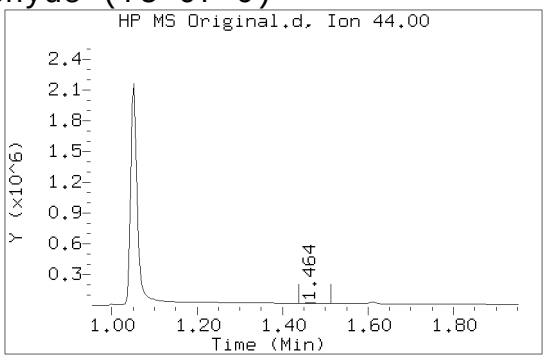
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Inj Date : 08-JUN-2024 17:20
InstruID : VOA9.i
LabSampID : VSTD005

Acetaldehyde (75-07-0)

Reason Code:

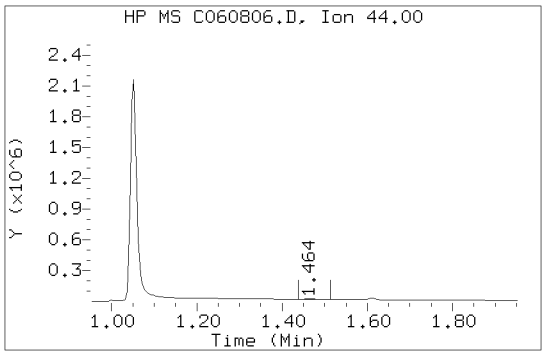
BEFORE

MASS
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10599
HEIGHT
6861
21-Jun-2024
10:55
RUCHA
PATEL



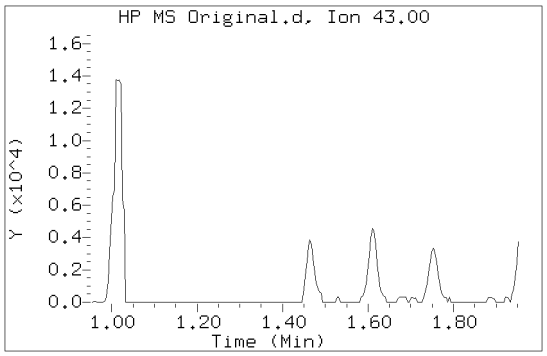
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6861
21-Jun-2024
10:55
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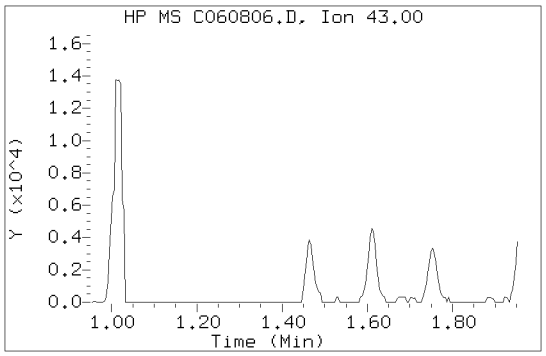
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21-Jun-2024
10:55
RUCHA
PATEL



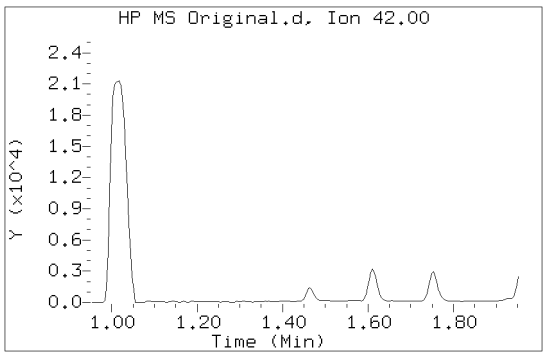
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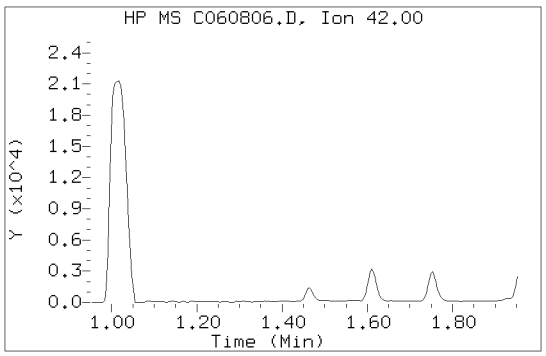
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AFTER

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21-Jun-2024
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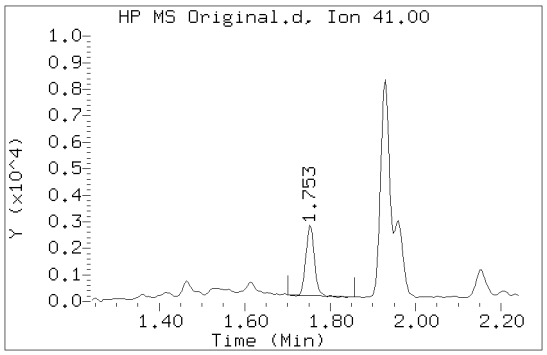


Isobutylene (115-11-7)

Reason Code:

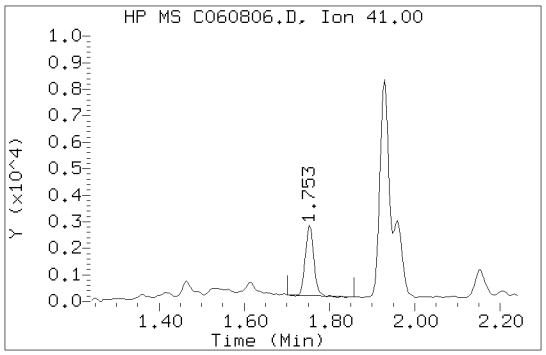
BEFORE

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AREA
3664
HEIGHT
2651
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
41
AREA
3664
HEIGHT
2651
21-Jun-2024
10:55
RUCHA
PATEL



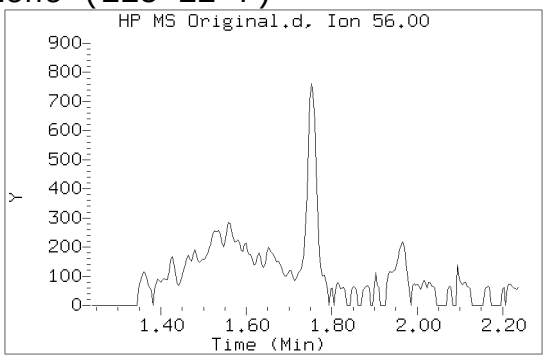
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InstruID : VOA9.i
LabSampID : VSTD005

Isobutylene (115-11-7)

Reason Code:

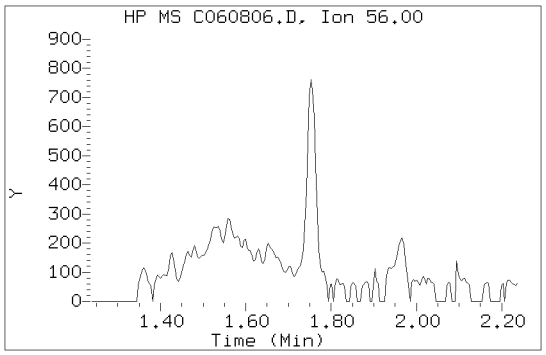
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21-Jun-2024
10:55
RUCHA
PATEL



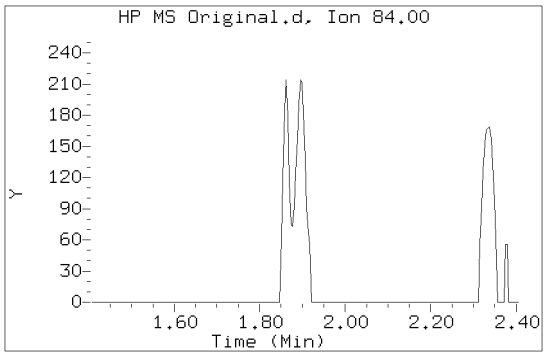
AFTER

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HEIGHT
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21-Jun-2024
10:55
RUCHA
PATEL



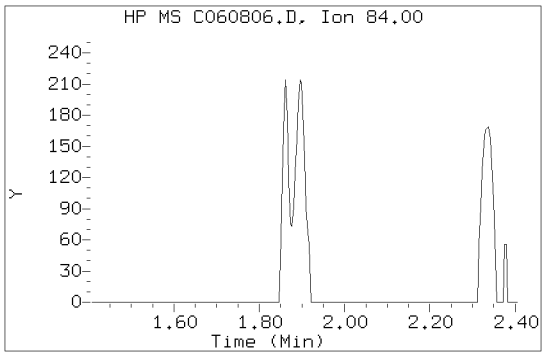
BEFORE

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AREA
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HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
84
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL

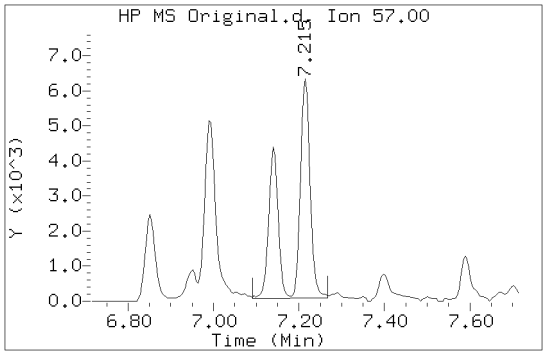


sec-Butyl Ether (6863-58-7)

Reason Code:

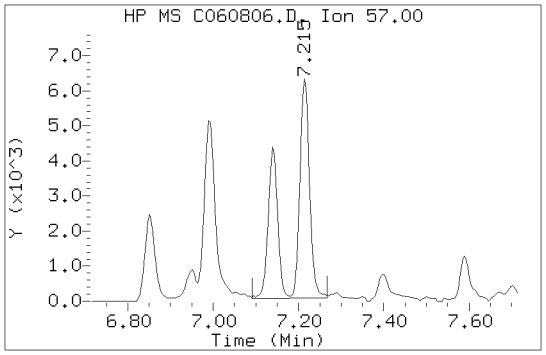
BEFORE

MASS
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AREA
16698
HEIGHT
6252
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
57
AREA
16698
HEIGHT
6252
21-Jun-2024
10:55
RUCHA
PATEL



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240608.b\C060807.D Page 1
Report Date: 21-Jun-2024 10:56

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240608.b\C060807.D
Lab Smp Id: VSTD020 Client Smp ID: VSTD020
Inj Date : 08-JUN-2024 17:42
Operator : TS Inst ID: VOA9.i
Smp Info : VSTD020;VSTD020;1;6
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240608.b\8260C.m
Meth Date : 21-Jun-2024 10:56 VOA9.i Quant Type: ISTD
Cal Date : 08-JUN-2024 17:20 Cal File: C060806.D
Als bottle: 7 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.819	4.819	(1.000)	272930	50.0000	
2	Dichlorodifluoromethane	85	1.171	1.171	(0.243)	37490	20.0000	21.56
3	Chloromethane	50	1.302	1.302	(0.270)	85176	20.0000	20.21
4	Propionitrile	54	4.339	4.339	(0.900)	54324	200.000	202.86(a)
5	Vinyl Chloride	62	1.385	1.385	(0.287)	50721	20.0000	21.80
6	Bromomethane	94	1.625	1.625	(0.337)	23285	20.0000	21.62
7	Chloroethane	64	1.707	1.707	(0.354)	32633	20.0000	20.98
8	Trichlorofluoromethane	101	1.902	1.902	(0.395)	56819	20.0000	21.12(Q)
9	Acrolein	56	2.269	2.269	(0.471)	3160	40.0000	35.52
10	Acetone	43	2.412	2.412	(0.501)	31503	40.0000	37.16
11	1,1-Dichloroethene	96	2.337	2.337	(0.485)	33553	20.0000	19.85
12	Isobutyl Alcohol	43	5.283	5.283	(1.096)	108570	400.000	414.16(a)
13	Acetonitrile	39	2.674	2.674	(0.555)	43313	200.000	202.46(a)
14	Allyl Chloride	41	2.674	2.674	(0.555)	102139	20.0000	20.25(a)
15	Iodomethane	142	2.472	2.472	(0.513)	19540	40.0000	36.36(Q)
16	Acrylonitrile	53	3.068	3.068	(0.637)	28607	40.0000	41.01
17	Methylene Chloride	84	2.798	2.798	(0.581)	41418	20.0000	21.49
18	Methyl tert-butyl ether	73	3.083	3.083	(0.640)	96380	20.0000	20.36
19	Carbon Disulfide	76	2.524	2.524	(0.524)	194819	40.0000	38.93
20	trans-1,2-Dichloroethene	96	3.060	3.060	(0.635)	36262	20.0000	21.20(Q)

21 Vinyl Acetate	43	4.342	4.342 (0.901)	40722	40.0000	40.97
22 1,1-Dichloroethane	63	3.514	3.514 (0.729)	69328	20.0000	20.90

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	3.611	3.611	(0.750)	59500	20.0000	19.80
	24 2-Butanone	43	4.264	4.264	(0.885)	40847	40.0000	40.77
	25 Methacrylonitrile	41	4.496	4.496	(0.933)	23303	20.0000	19.64(aM)
	26 2,2-Dichloropropane	77	4.185	4.185	(0.869)	52000	20.0000	19.55
	27 cis-1,2-Dichloroethene	96	4.196	4.196	(0.871)	42836	20.0000	20.79
	28 Chloroform	83	4.575	4.575	(0.949)	70130	20.0000	21.00
	29 Bromochloromethane	128	4.470	4.470	(0.928)	20996	20.0000	20.72
$	30 Dibromofluoromethane	113	4.751	4.751	(0.986)	37278	20.0000	20.66
	31 1,1,1-Trichloroethane	97	4.744	4.744	(0.984)	55593	20.0000	20.47
	32 1,1-Dichloropropene	75	4.924	4.924	(0.887)	52965	20.0000	20.80
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	56929	20.0000	20.91
	34 Carbon Tetrachloride	117	4.912	4.912	(0.885)	42365	20.0000	19.35
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	46996	20.0000	21.19
*	36 1,4-Difluorobenzene	114	5.553	5.553	(1.000)	397679	50.0000	
	37 Benzene	78	5.137	5.137	(0.925)	160031	20.0000	20.84
	38 Trichloroethene	130	5.789	5.789	(1.043)	41907	20.0000	21.14
	39 Bromodichloromethane	83	6.277	6.277	(1.130)	44201	20.0000	18.39
	40 Methyl Methacrylate	41	5.819	5.819	(1.208)	14096	20.0000	20.15(aQ)
	41 2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	14000	40.0000	33.87
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	42792	20.0000	20.51
	43 2-Nitropropane	43	6.505	6.505	(1.350)	7454	20.0000	17.55(M)
	44 Dibromomethane	93	6.119	6.119	(1.102)	24532	20.0000	20.28
	45 4-Methyl-2-Pentanone	43	6.850	6.850	(0.837)	78416	40.0000	39.22
	46 cis-1,3-Dichloropropene	75	6.689	6.689	(1.205)	55906	20.0000	18.83
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	357829	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	137570	20.0000	19.86
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	47837	20.0000	19.39(a)
	50 Toluene	91	6.978	6.978	(0.853)	164634	20.0000	20.63
	51 trans-1,3-Dichloropropene	75	7.195	7.195	(1.296)	44308	20.0000	18.76
	52 2-Hexanone	43	7.214	7.214	(0.881)	56512	40.0000	42.09(Q)
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	31888	20.0000	20.65
	54 1,3-Dichloropropane	76	7.495	7.495	(0.916)	67973	20.0000	20.49
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	32782	20.0000	18.89
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	33164	20.0000	20.53
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	35066	20.0000	19.69
	58 1-Chlorohexane	55	8.192	8.192	(1.475)	32844	20.0000	20.57
	59 Chlorobenzene	112	8.207	8.207	(1.003)	105884	20.0000	20.58
	60 1,1,1,2-Tetrachloroethane	131	8.282	8.282	(1.012)	34334	20.0000	19.36
	61 Ethylbenzene	106	8.305	8.305	(1.015)	53277	20.0000	19.31
	62 m,p-Xylenes	106	8.406	8.406	(1.027)	136293	40.0000	39.84
	63 o-Xylene	106	8.747	8.747	(1.069)	66281	20.0000	19.84
	64 Styrene	104	8.758	8.758	(1.070)	104948	20.0000	19.61
	66 Bromoform	173	8.916	8.916	(1.089)	18964	20.0000	17.98
	67 Isopropylbenzene	105	9.058	9.058	(1.107)	163903	20.0000	20.47
	68 1,1,2,2-Tetrachloroethane	83	9.324	9.324	(0.917)	52002	20.0000	20.53
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	51958	20.0000	20.13
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	191266	50.0000	
	71 1,2,3-Trichloropropane	75	9.358	9.358	(0.920)	50983	20.0000	19.66
	72 trans-1,4-Dichloro-2-butene	53	9.373	9.373	(1.145)	11126	20.0000	20.28(a)
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	190260	20.0000	20.50
	74 Bromobenzene	156	9.313	9.313	(0.916)	45051	20.0000	20.06
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	125421	20.0000	19.76

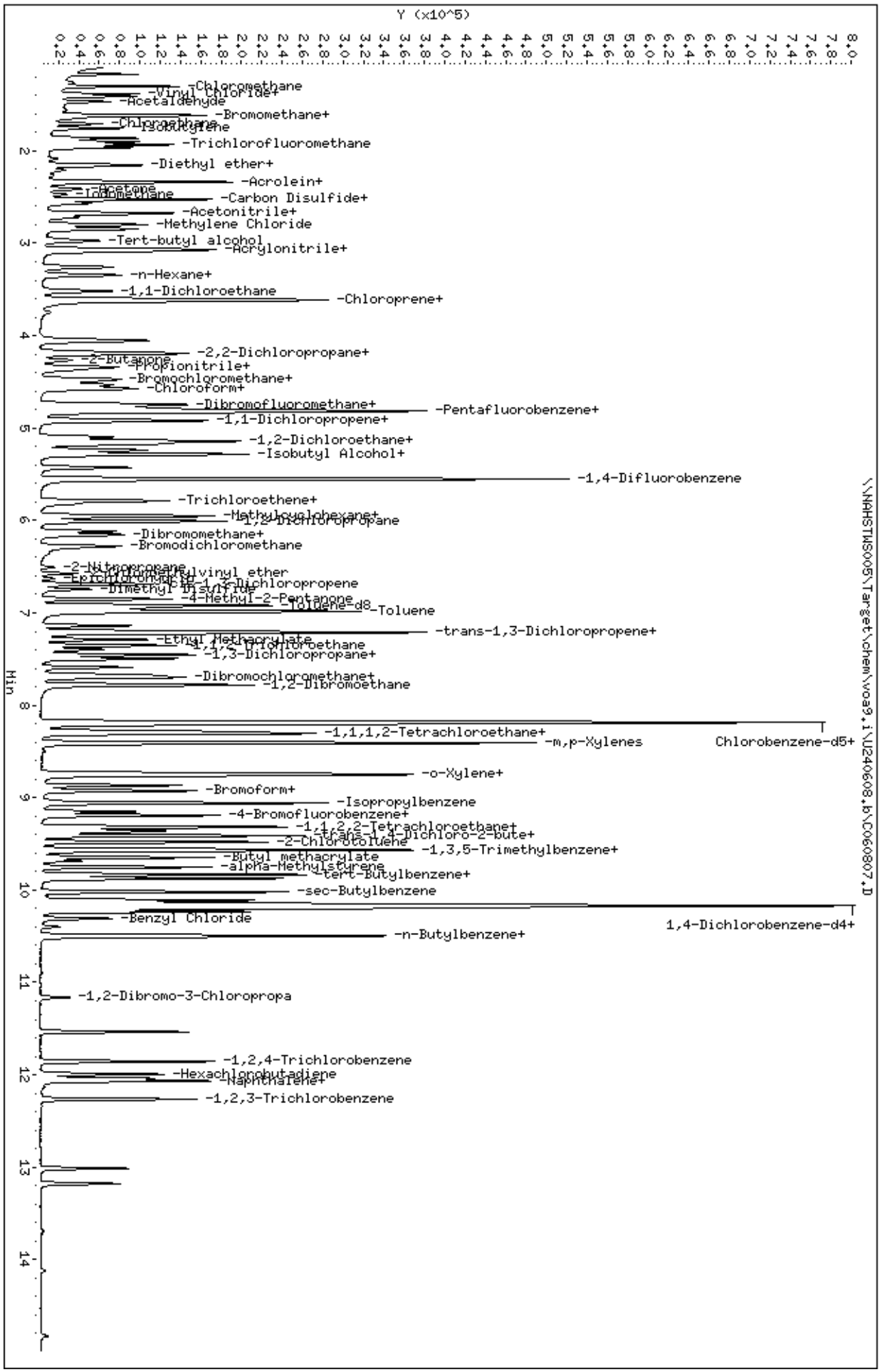
76	2-Chlorotoluene	91	9.482	9.482 (0.933)	113926	20.0000	20.03
77	4-Chlorotoluene	91	9.572	9.572 (0.941)	135940	20.0000	19.30

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.834	9.834	(0.967)	114581	20.0000	20.86
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	122623	20.0000	18.77
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	154636	20.0000	20.87
82	p-Isopropyltoluene	119	10.145	10.145	(0.998)	126406	20.0000	19.78
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	80366	20.0000	20.44
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	83617	20.0000	20.19
86	Benzyl Chloride	91	10.307	10.307	(1.259)	46818	20.0000	19.46
87	n-Butylbenzene	91	10.490	10.490	(1.032)	113192	20.0000	19.37
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	80379	20.0000	20.62
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	5718	20.0000	19.13
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	50303	20.0000	18.29
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	21835	20.0000	19.95
92	Naphthalene	128	12.065	12.065	(1.187)	113113	20.0000	19.45
93	1,2,3-Trichlorobenzene	180	12.267	12.267	(1.206)	46045	20.0000	20.09
146	Methyl acetate	43	2.716	2.716	(0.564)	31746	20.0000	20.37
138	Freon TF	101	2.337	2.337	(0.485)	33502	20.0000	21.57
141	Cyclohexane	56	4.785	4.785	(0.993)	55925	20.0000	21.26
142	Tetrahydrofuran	42	4.545	4.545	(0.943)	14036	40.0000	37.50
147	Methylcyclohexane	55	5.947	5.947	(1.071)	87175	20.0000	19.29
135	1,4-Dioxane	88	6.164	6.164	(1.279)	8784	400.000	415.27
132	n-Butanol	56	5.819	5.819	(1.208)	18655	400.000	379.33(a)
136	n-Hexane	57	3.345	3.345	(0.694)	38605	20.0000	21.87(Q)
139	Diethyl ether	59	2.149	2.149	(0.446)	28370	20.0000	20.54(Q)
148	Tert-butyl alcohol	59	2.970	2.970	(0.616)	65129	400.000	412.54
149	Isopropyl alcohol	45	2.566	2.566	(0.532)	50768	400.000	412.28
156	Diisopropyl ether	45	3.623	3.623	(0.752)	122616	20.0000	20.21(T)
162	Butyl acrylate	55	8.728	8.728	(1.066)	62317	20.0000	19.87(Q)
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	175184	20.0000	20.15
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	106847	20.0000	18.54
167	Ethanol	45	2.086	2.086	(0.433)	8933	400.000	378.42
172	tert-Butyl formate	59	5.238	5.238	(1.087)	65150	40.0000	43.83
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.299)	203158	400.000	390.49
140	1,3-Butadiene	54	1.407	1.407	(0.292)	21059	20.0000	20.34
182	Epichlorohydrin	57	6.629	6.629	(1.194)	7157	80.0000	71.20
M 94	1,2-Dichloroethylene (total)	96				79098	40.0000	(a)
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	46159	20.0000	18.09
130	Ethyl Acetate	43	4.534	4.534	(0.941)	15067	20.0000	21.46(M)
131	Methyl Acrylate	55	4.369	4.369	(0.907)	42408	20.0000	19.51
189	n-Butyl acetate	43	7.701	7.701	(0.941)	60340	20.0000	20.22
134	Cyclohexanone	55	9.152	9.152	(0.900)	34973	400.000	353.28(aQ)
185	Isoprene	39	2.161	2.161	(0.448)	9552	20.0000	21.38
188	Isopropyl acetate	43	5.283	5.283	(0.951)	109232	20.0000	20.57
150	Allyl alcohol	57	3.345	3.345	(0.694)	38605	400.000	437.56
194	Acetaldehyde	44	1.467	1.467	(0.305)	58954	80.0000	108.06
200	Dimethyl Disulfide	94	6.745	6.745	(0.824)	19394	20.0000	17.25
202	Isobutylene	41	1.756	1.756	(0.364)	18310	20.0000	20.10(M)
133	Ethyl Acrylate	55	5.947	5.947	(1.234)	87175	20.0000	19.56
163	Butyl methacrylate	41	9.647	9.647	(0.949)	44354	20.0000	25.01(Q)
159	Propylene oxide	43	2.206	2.206	(0.458)	6037	40.0000	37.07
178	Ethylene oxide	44	1.613	1.613	(0.335)	112347	40.0000	36.04(M)
203	2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	38246	20.0000	17.77
204	Tetrahydrothiophene	60	7.671	7.671	(0.937)	38650	20.0000	18.87(A)

205 sec-Butyl Ether	57	7.214	7.214 (0.881)	76512	20.0000	20.29(AM)
187 n-Amyl acetate	43	8.927	8.927 (1.091)	64383	20.0000	21.63

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240608.b\C060807.D
Date : 08-JUN-2024 17:42
Client ID: VSTD020
Sample Info: VSTD020;VSTD020;1;6
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

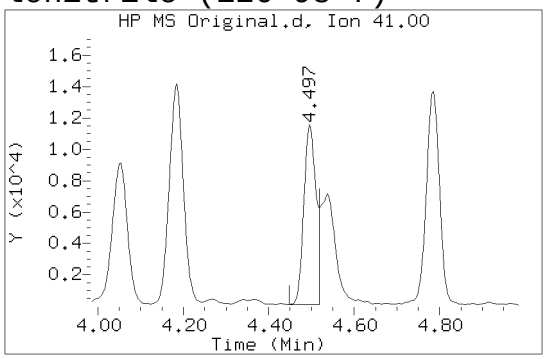
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InstruID : VOA9.i
LabSampID : VSTD020

Methacrylonitrile (126-98-7)

Reason Code:

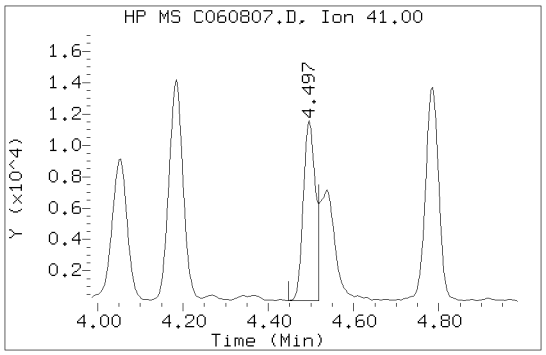
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HEIGHT
11468
21-Jun-2024
10:55
RUCHA
PATEL



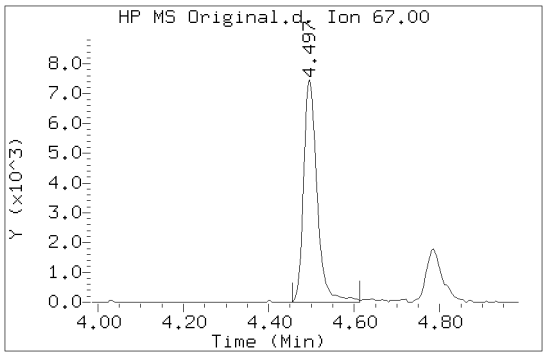
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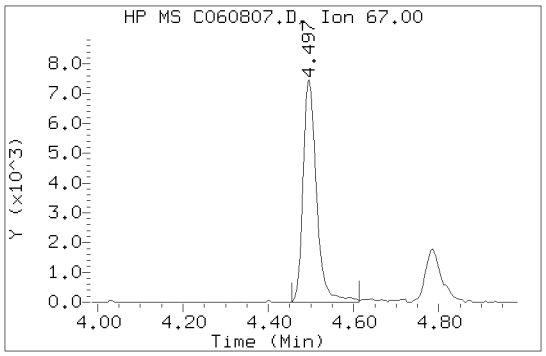
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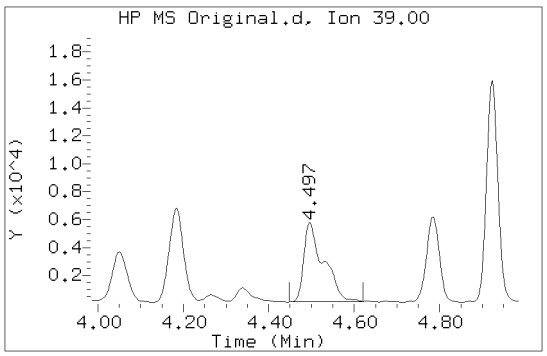
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10:55
RUCHA
PATEL



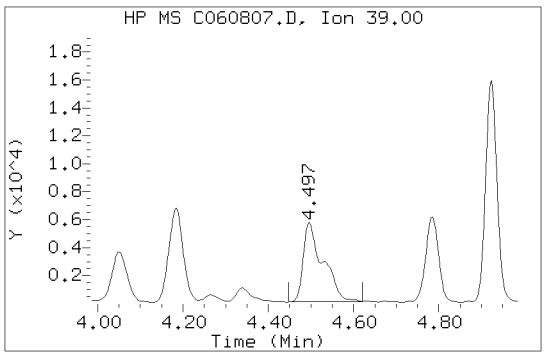
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5692
21-Jun-2024
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AFTER

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HEIGHT
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21-Jun-2024
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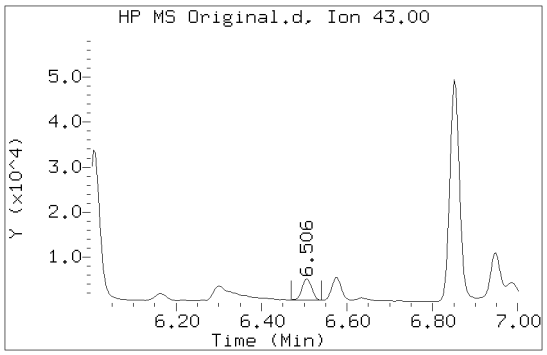


2-Nitropropane (79-46-9)

Reason Code:

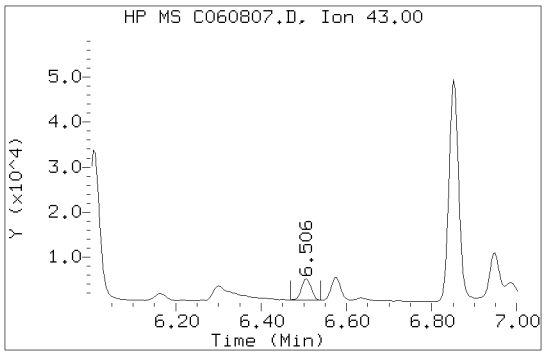
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21-Jun-2024
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AFTER

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HEIGHT
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21-Jun-2024
10:55
RUCHA
PATEL



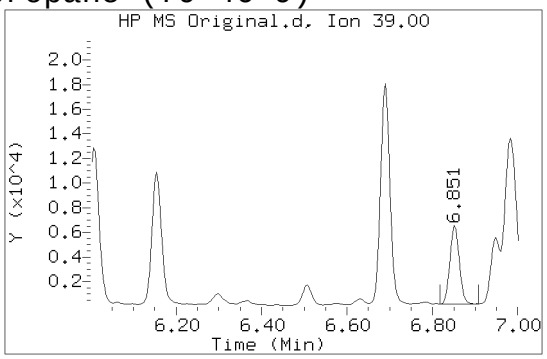
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InstruID : VOA9.i
LabSampID : VSTD020

2-Nitropropane (79-46-9)

Reason Code:

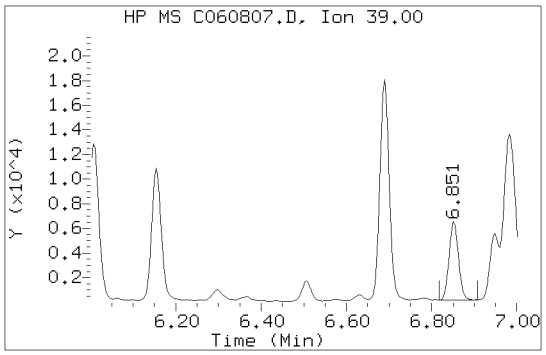
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6436
21-Jun-2024
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AFTER

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HEIGHT
6436
21-Jun-2024
10:55
RUCHA
PATEL

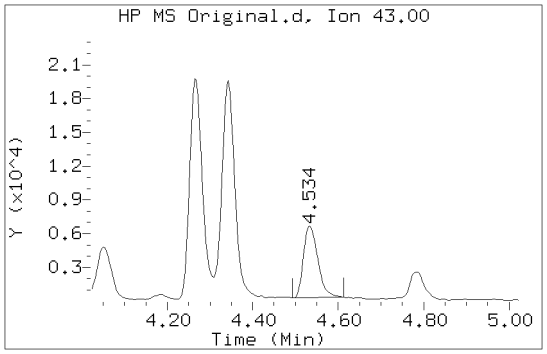


Ethyl Acetate (141-78-6)

Reason Code:

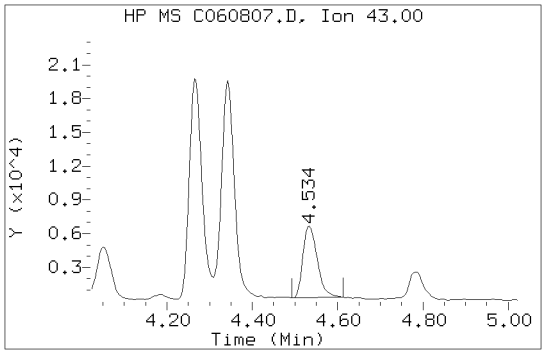
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HEIGHT
6377
21-Jun-2024
10:55
RUCHA
PATEL



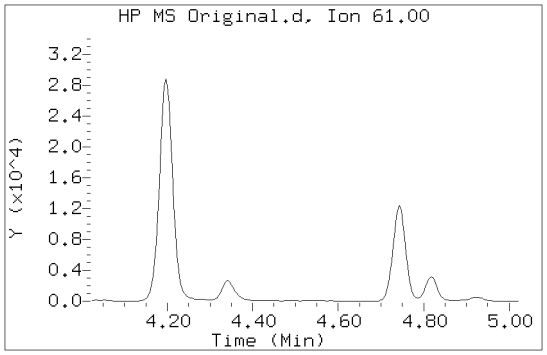
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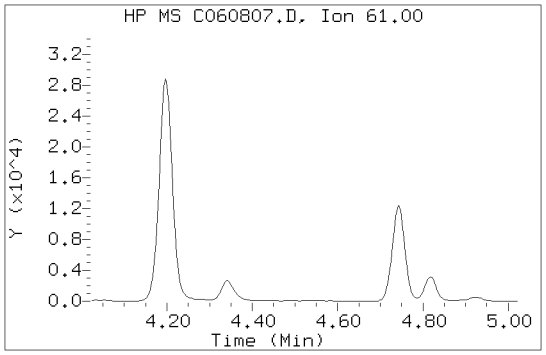
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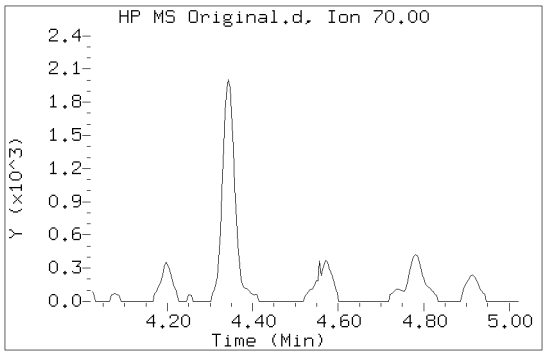
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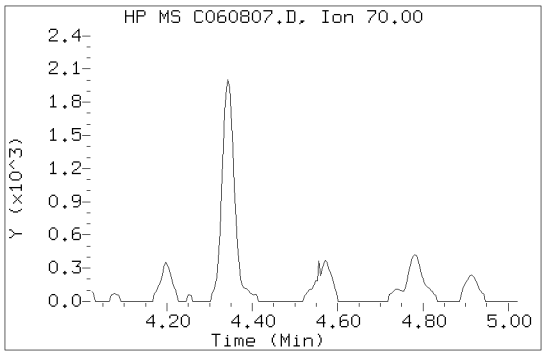
BEFORE

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0
21-Jun-2024
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RUCHA
PATEL



AFTER

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HEIGHT
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21-Jun-2024
10:55
RUCHA
PATEL



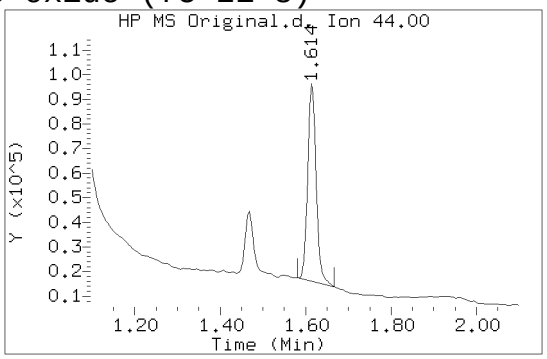
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Inj Date : 08-JUN-2024 17:42
InstruID : VOA9.i
LabSampID : VSTD020

Ethylene oxide (75-21-8)

Reason Code:

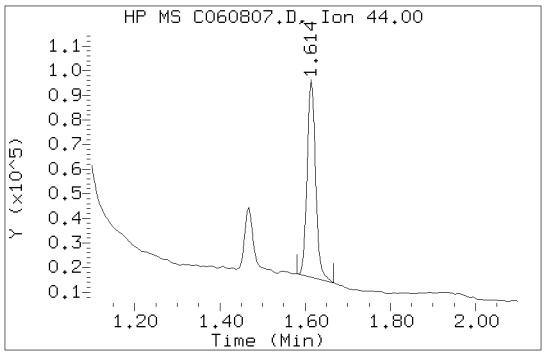
BEFORE

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80243
21-Jun-2024
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AFTER

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HEIGHT
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21-Jun-2024
10:55
RUCHA
PATEL

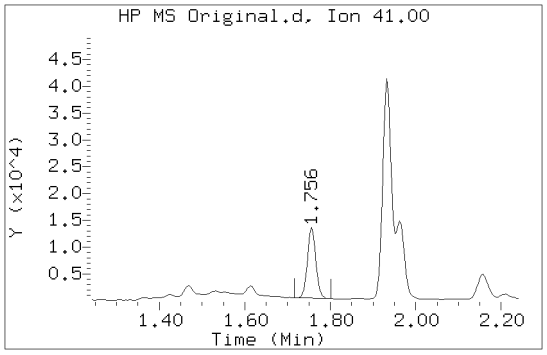


Isobutylene (115-11-7)

Reason Code:

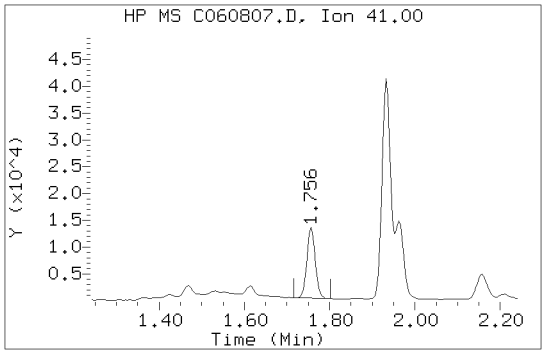
BEFORE

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HEIGHT
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21-Jun-2024
10:55
RUCHA
PATEL



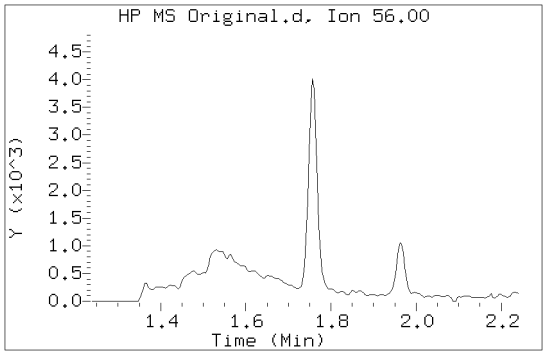
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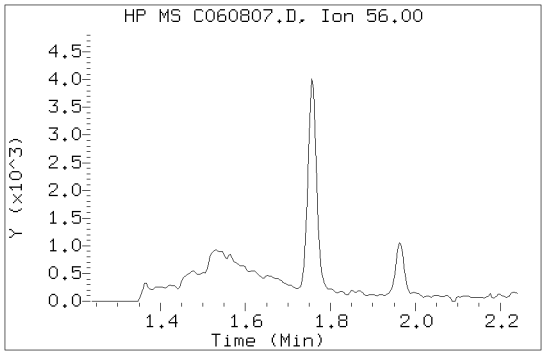
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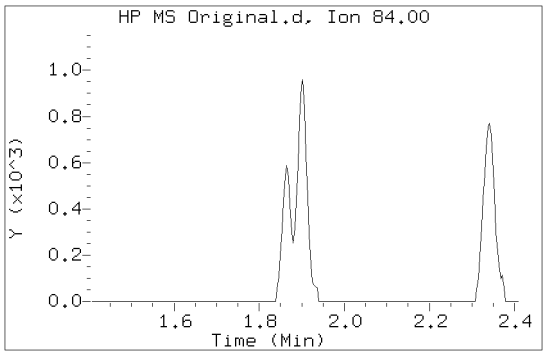
AFTER

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21-Jun-2024
10:55
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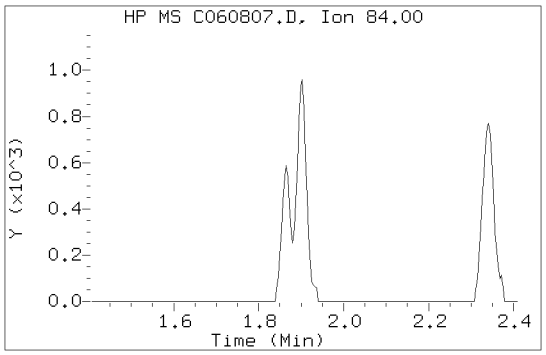
BEFORE

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21-Jun-2024
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AFTER

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10:55
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PATEL



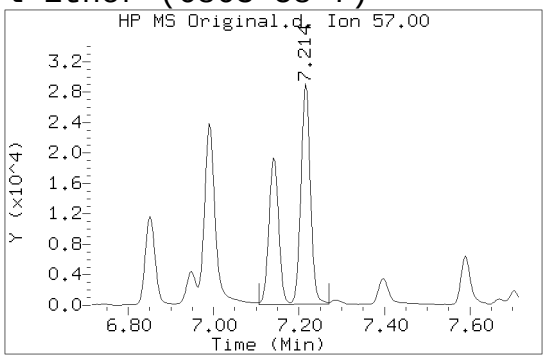
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Inj Date : 08-JUN-2024 17:42
InstruID : VOA9.i
LabSampID : VSTD020

sec-Butyl Ether (6863-58-7)

Reason Code:

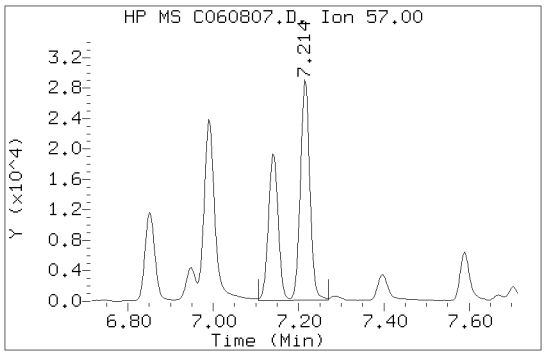
BEFORE

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28987
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

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HEIGHT
28987
21-Jun-2024
10:55
RUCHA
PATEL



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240608.b\C060808.D Page 1
Report Date: 21-Jun-2024 10:56

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240608.b\C060808.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 08-JUN-2024 18:03
Operator : TS Inst ID: VOA9.i
Smp Info : VSTD050;VSTD050;1;7
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa9.i\U240608.b\8260C.m
Meth Date : 21-Jun-2024 10:56 VOA9.i Quant Type: ISTD
Cal Date : 08-JUN-2024 17:42 Cal File: C060807.D
Als bottle: 8 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.808	4.808	(1.000)	275798	50.0000	
2 Dichlorodifluoromethane	85	1.156	1.156	(0.241)	89571	50.0000	51.10
3 Chloromethane	50	1.288	1.288	(0.268)	201659	50.0000	50.23
4 Propionitrile	54	4.328	4.328	(0.900)	132035	500.000	499.29
5 Vinyl Chloride	62	1.366	1.366	(0.284)	118181	50.0000	50.67
6 Bromomethane	94	1.606	1.606	(0.334)	54865	50.0000	51.84
7 Chloroethane	64	1.689	1.689	(0.351)	78463	50.0000	50.75
8 Trichlorofluoromethane	101	1.887	1.887	(0.393)	138140	50.0000	50.82(Q)
9 Acrolein	56	2.255	2.255	(0.469)	7769	100.000	89.32
10 Acetone	43	2.397	2.397	(0.499)	72946	100.000	94.62
11 1,1-Dichloroethene	96	2.322	2.322	(0.483)	79452	50.0000	46.53
12 Isobutyl Alcohol	43	5.276	5.276	(1.097)	270130	1000.00	1030.88
13 Acetonitrile	39	2.660	2.660	(0.553)	105761	500.000	495.81
14 Allyl Chloride	41	2.660	2.660	(0.553)	249558	50.0000	49.89
15 Iodomethane	142	2.457	2.457	(0.511)	60228	100.000	101.76(Q)
16 Acrylonitrile	53	3.053	3.053	(0.635)	69792	100.000	102.21
17 Methylene Chloride	84	2.783	2.783	(0.579)	96985	50.0000	51.54
18 Methyl tert-butyl ether	73	3.068	3.068	(0.638)	237138	50.0000	50.65
19 Carbon Disulfide	76	2.510	2.510	(0.522)	480812	100.000	95.08
20 trans-1,2-Dichloroethene	96	3.049	3.049	(0.634)	87563	50.0000	51.40(Q)

21 Vinyl Acetate	43	4.332	4.332 (0.901)	101478	100.000	102.56
22 1,1-Dichloroethane	63	3.503	3.503 (0.729)	167423	50.0000	50.88

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
23	Chloroprene	53	3.601	3.601	(0.749)	143389	50.0000	47.23
24	2-Butanone	43	4.253	4.253	(0.885)	97808	100.000	100.47
25	Methacrylonitrile	41	4.485	4.485	(0.933)	58662	50.0000	49.43(a)
26	2,2-Dichloropropane	77	4.174	4.174	(0.868)	127793	50.0000	47.54
27	cis-1,2-Dichloroethene	96	4.185	4.185	(0.871)	105064	50.0000	51.25
28	Chloroform	83	4.564	4.564	(0.949)	169365	50.0000	51.00
29	Bromochloromethane	128	4.459	4.459	(0.927)	51318	50.0000	51.05
$ 30	Dibromofluoromethane	113	4.740	4.740	(0.986)	90529	50.0000	50.82
31	1,1,1-Trichloroethane	97	4.736	4.736	(0.985)	134736	50.0000	49.09
32	1,1-Dichloropropene	75	4.913	4.913	(0.886)	129445	50.0000	50.57
33	1,2-Dichloroethane	62	5.167	5.167	(0.932)	137032	50.0000	51.40
34	Carbon Tetrachloride	117	4.905	4.905	(0.884)	106385	50.0000	48.47
$ 35	1,2-Dichloroethane-d4	65	5.089	5.089	(1.058)	110883	50.0000	51.31
* 36	1,4-Difluorobenzene	114	5.546	5.546	(1.000)	398758	50.0000	
37	Benzene	78	5.130	5.130	(0.925)	387106	50.0000	50.88
38	Trichloroethene	130	5.782	5.782	(1.043)	99193	50.0000	49.95
39	Bromodichloromethane	83	6.273	6.273	(1.131)	115252	50.0000	47.84
40	Methyl Methacrylate	41	5.812	5.812	(1.209)	35102	50.0000	49.88
41	2-Chloroethylvinyl ether	63	6.570	6.570	(1.185)	43982	100.000	93.63
42	1,2-Dichloropropane	63	6.003	6.003	(1.082)	104685	50.0000	50.53
43	2-Nitropropane	43	6.502	6.502	(1.352)	21876	50.0000	48.62(M)
44	Dibromomethane	93	6.112	6.112	(1.102)	60845	50.0000	50.69
45	4-Methyl-2-Pentanone	43	6.847	6.847	(0.837)	198096	100.000	98.75
46	cis-1,3-Dichloropropene	75	6.686	6.686	(1.205)	150472	50.0000	50.54
* 47	Chlorobenzene-d5	117	8.181	8.181	(1.000)	356490	50.0000	
$ 48	Toluene-d8	98	6.918	6.918	(0.846)	338336	50.0000	50.05
49	Ethyl Methacrylate	69	7.286	7.286	(1.314)	122860	50.0000	48.68
50	Toluene	91	6.978	6.978	(0.853)	397163	50.0000	50.50
51	trans-1,3-Dichloropropene	75	7.192	7.192	(1.297)	121886	50.0000	51.47
52	2-Hexanone	43	7.211	7.211	(0.881)	130278	100.000	101.41(Q)
53	1,1,2-Trichloroethane	83	7.349	7.349	(0.898)	76513	50.0000	50.65
54	1,3-Dichloropropane	76	7.492	7.492	(0.916)	165166	50.0000	50.66
55	Dibromochloromethane	129	7.687	7.687	(0.940)	90963	50.0000	52.63
56	Tetrachloroethene	164	7.454	7.454	(0.911)	77463	50.0000	48.14
57	1,2-Dibromoethane	107	7.780	7.780	(0.951)	90199	50.0000	50.75
58	1-Chlorohexane	55	8.193	8.193	(1.477)	74545	50.0000	48.45
59	Chlorobenzene	112	8.208	8.208	(1.003)	255209	50.0000	50.61
60	1,1,1,2-Tetrachloroethane	131	8.279	8.279	(1.012)	89311	50.0000	49.41
61	Ethylbenzene	106	8.305	8.305	(1.015)	131096	50.0000	47.70
62	m,p-Xylenes	106	8.406	8.406	(1.027)	332253	100.000	97.49
63	o-Xylene	106	8.744	8.744	(1.069)	159597	50.0000	47.97
64	Styrene	104	8.759	8.759	(1.071)	261910	50.0000	49.14
66	Bromoform	173	8.916	8.916	(1.090)	53982	50.0000	48.21
67	Isopropylbenzene	105	9.059	9.059	(1.107)	403900	50.0000	50.63
68	1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	124694	50.0000	50.92
$ 69	4-Bromofluorobenzene	95	9.190	9.190	(1.123)	125607	50.0000	50.38
* 70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	187834	50.0000	
71	1,2,3-Trichloropropane	75	9.359	9.359	(0.920)	126018	50.0000	50.36
72	trans-1,4-Dichloro-2-butene	53	9.374	9.374	(1.146)	27332	50.0000	50.47
73	n-Propylbenzene	91	9.407	9.407	(0.925)	463937	50.0000	50.91
74	Bromobenzene	156	9.314	9.314	(0.916)	112392	50.0000	51.37
75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	317171	50.0000	50.13

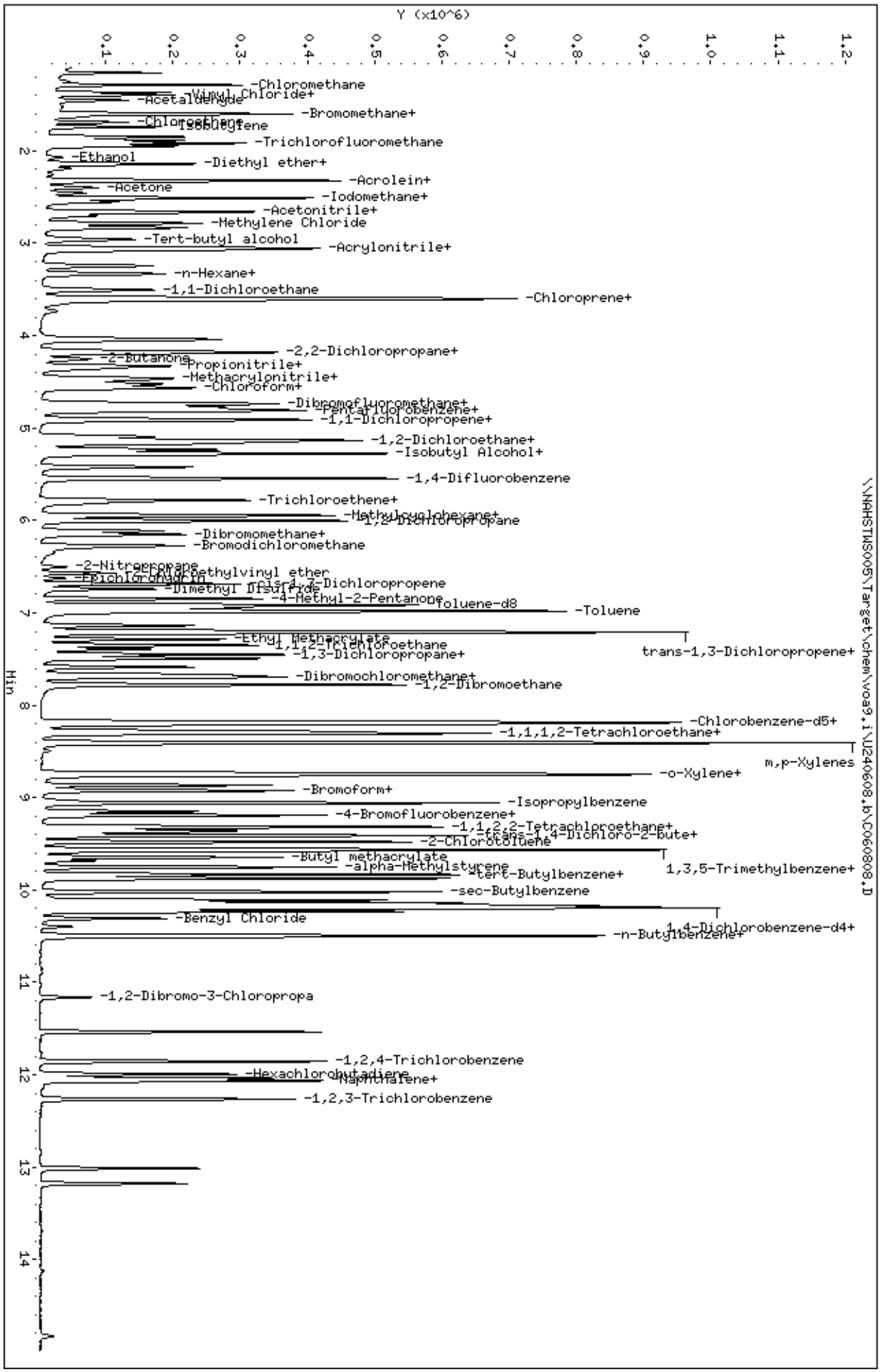
76	2-Chlorotoluene	91	9.478	9.478 (0.932)	279659	50.0000	50.39
77	4-Chlorotoluene	91	9.572	9.572 (0.941)	328954	50.0000	47.57

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	278081	50.0000	51.56
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	312723	50.0000	48.74
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	375833	50.0000	51.66
82	p-Isopropyltoluene	119	10.142	10.142	(0.997)	321050	50.0000	51.17
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	194300	50.0000	51.14
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	203094	50.0000	50.71
86	Benzyl Chloride	91	10.307	10.307	(1.260)	117841	50.0000	48.75
87	n-Butylbenzene	91	10.491	10.491	(1.032)	281479	50.0000	49.06
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	190708	50.0000	50.54
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	14911	50.0000	49.11
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	125926	50.0000	46.63
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	52880	50.0000	48.57
92	Naphthalene	128	12.065	12.065	(1.187)	291932	50.0000	50.54
93	1,2,3-Trichlorobenzene	180	12.264	12.264	(1.206)	113499	50.0000	50.43
146	Methyl acetate	43	2.701	2.701	(0.562)	78162	50.0000	51.24
138	Freon TF	101	2.326	2.326	(0.484)	79322	50.0000	50.55
141	Cyclohexane	56	4.774	4.774	(0.993)	127015	50.0000	50.16
142	Tetrahydrofuran	42	4.534	4.534	(0.943)	35828	100.000	100.91
147	Methylcyclohexane	55	5.940	5.940	(1.071)	225036	50.0000	48.94
135	1,4-Dioxane	88	6.161	6.161	(1.281)	20516	1000.00	1007.41
132	n-Butanol	56	5.816	5.816	(1.210)	48564	1000.00	964.13
136	n-Hexane	57	3.331	3.331	(0.693)	90409	50.0000	50.70(Q)
139	Diethyl ether	59	2.135	2.135	(0.444)	68509	50.0000	50.22(Q)
148	Tert-butyl alcohol	59	2.956	2.956	(0.615)	157363	1000.00	1019.99
149	Isopropyl alcohol	45	2.551	2.551	(0.531)	124313	1000.00	1032.98
156	Diisopropyl ether	45	3.612	3.612	(0.751)	305157	50.0000	50.54
162	Butyl acrylate	55	8.729	8.729	(1.067)	154594	50.0000	48.67(Q)
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	425929	50.0000	50.54
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	282625	50.0000	49.67
167	Ethanol	45	2.071	2.071	(0.431)	22920	1000.00	996.00
172	tert-Butyl formate	59	5.235	5.235	(1.089)	142748	100.000	97.49
151	4-Methyl-2-pentanol	45	7.211	7.211	(1.300)	520713	1000.00	981.32
140	1,3-Butadiene	54	1.393	1.393	(0.290)	50254	50.0000	48.04
182	Epichlorohydrin	57	6.626	6.626	(1.195)	21083	200.000	202.90
M 94	1,2-Dichloroethylene (total)	96				192627	100.000	(a)
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	122214	50.0000	48.77
130	Ethyl Acetate	43	4.523	4.523	(0.941)	34955	50.0000	53.19(M)
131	Methyl Acrylate	55	4.358	4.358	(0.906)	108989	50.0000	49.74
189	n-Butyl acetate	43	7.702	7.702	(0.941)	148818	50.0000	49.37
134	Cyclohexanone	55	9.149	9.149	(0.900)	88668	1000.00	932.05(Q)
185	Isoprene	39	2.146	2.146	(0.446)	22207	50.0000	49.33
188	Isopropyl acetate	43	5.276	5.276	(0.951)	270130	50.0000	51.19
150	Allyl alcohol	57	3.331	3.331	(0.693)	90409	1000.00	1014.07
194	Acetaldehyde	44	1.453	1.453	(0.302)	95013	200.000	181.76
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	66670	50.0000	51.10
202	Isobutylene	41	1.741	1.741	(0.362)	45089	50.0000	48.63(M)
133	Ethyl Acrylate	55	5.940	5.940	(1.235)	225036	50.0000	49.53
163	Butyl methacrylate	41	9.643	9.643	(0.948)	94798	50.0000	56.54(Q)
159	Propylene oxide	43	2.191	2.191	(0.456)	14947	100.000	95.19
178	Ethylene oxide	44	1.599	1.599	(0.333)	280500	100.000	88.03(M)
203	2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	109606	50.0000	49.24
204	Tetrahydrothiophene	60	7.668	7.668	(0.937)	101997	50.0000	50.17(A)

205 sec-Butyl Ether	57	7.214	7.214 (0.882)	186288	50.0000	49.02(AM)
187 n-Amyl acetate	43	8.927	8.927 (1.091)	147428	50.0000	49.84

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240608.b\C060808.D
Date : 08-JUN-2024 18:03
Client ID: VSTD050
Sample Info: VSTD050;VSTD050;1;7
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

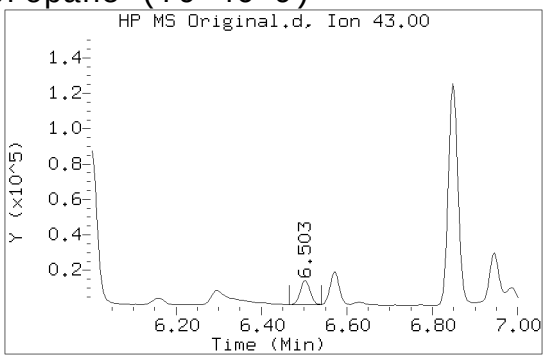
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InstruID : VOA9.i
LabSampID : VSTD050

2-Nitropropane (79-46-9)

Reason Code:

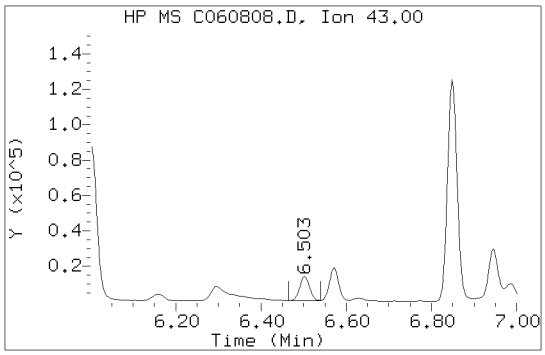
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10:55
RUCHA
PATEL



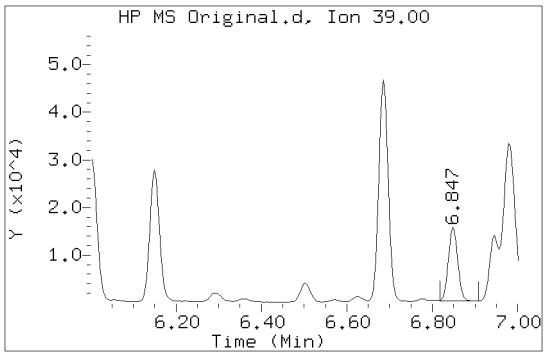
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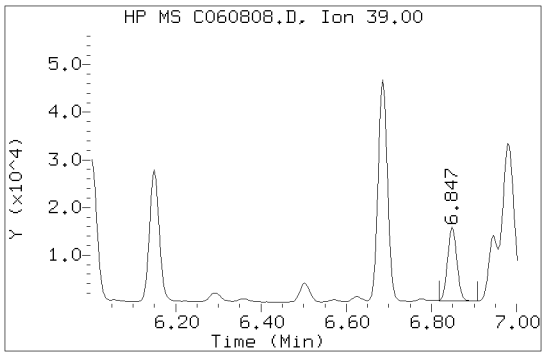
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AFTER

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21-Jun-2024
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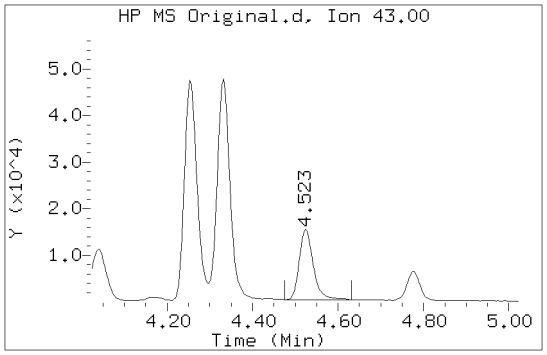


Ethyl Acetate (141-78-6)

Reason Code:

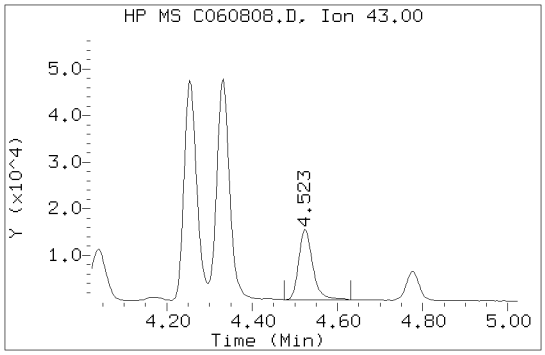
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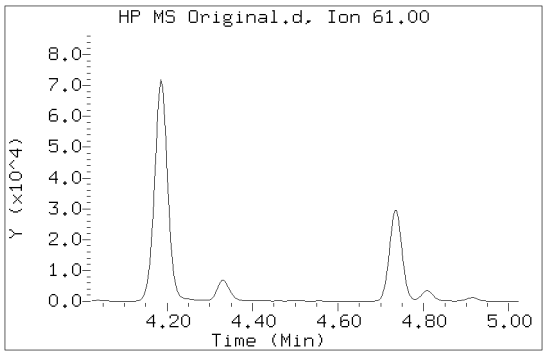
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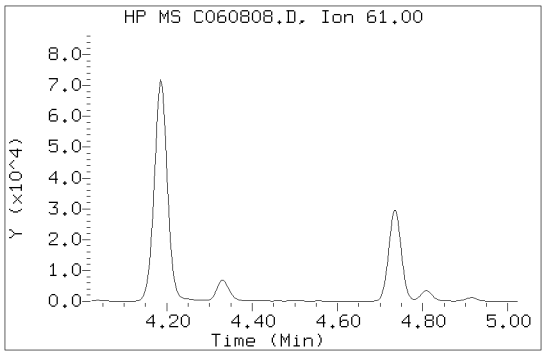
BEFORE

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AFTER

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HEIGHT
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21-Jun-2024
10:55
RUCHA
PATEL



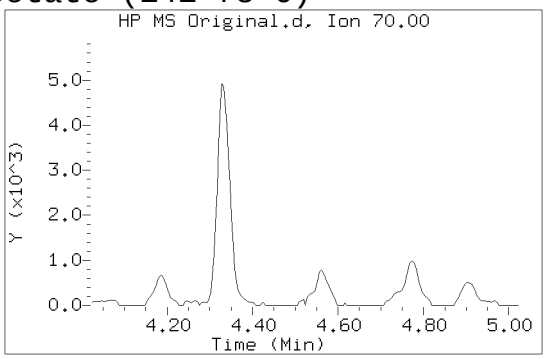
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InstruID : VOA9.i
LabSampID : VSTD050

Ethyl Acetate (141-78-6)

Reason Code:

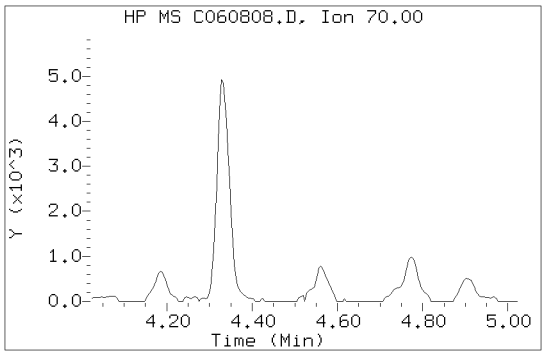
BEFORE

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HEIGHT
0
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10:55
RUCHA
PATEL



AFTER

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AREA
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HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL

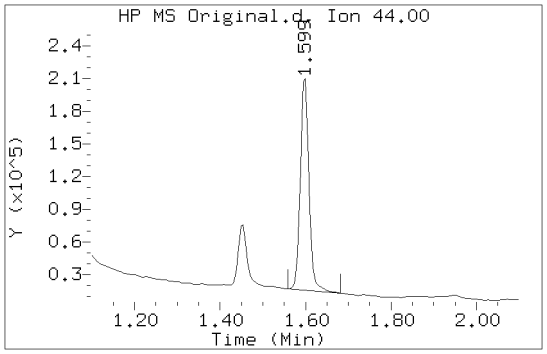


Ethylene oxide (75-21-8)

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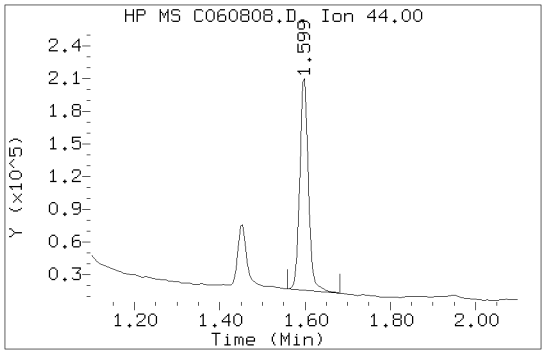
BEFORE

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HEIGHT
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21-Jun-2024
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RUCHA
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AFTER

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AREA
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HEIGHT
194263
21-Jun-2024
10:55
RUCHA
PATEL

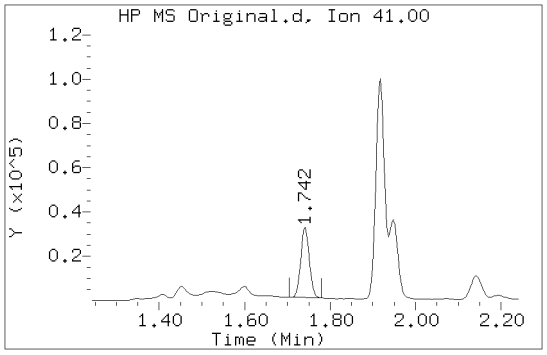


Isobutylene (115-11-7)

Reason Code:

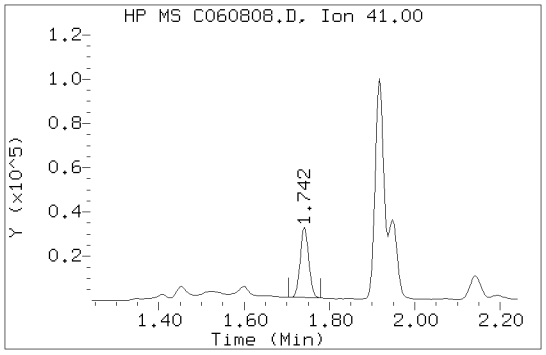
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31877
21-Jun-2024
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RUCHA
PATEL



AFTER

MASS
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AREA
45089
HEIGHT
31877
21-Jun-2024
10:55
RUCHA
PATEL



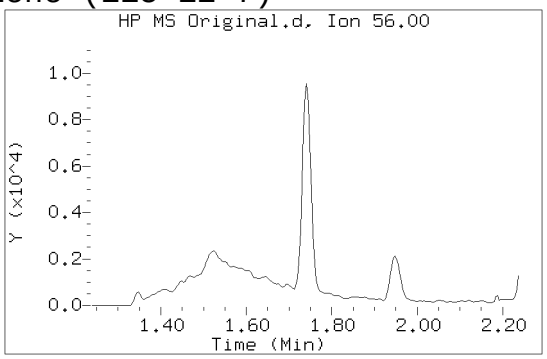
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Inj Date : 08-JUN-2024 18:03
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LabSampID : VSTD050

Isobutylene (115-11-7)

Reason Code:

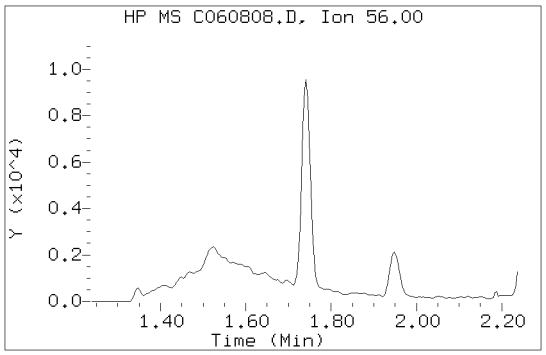
BEFORE

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HEIGHT
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21-Jun-2024
10:55
RUCHA
PATEL



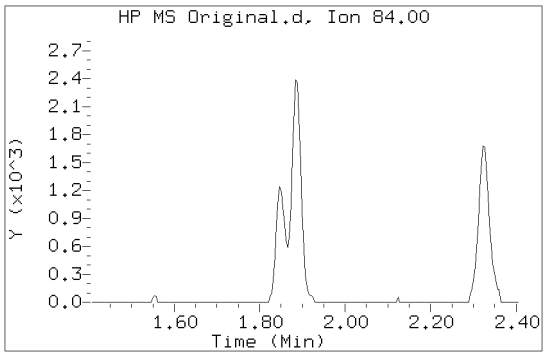
AFTER

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HEIGHT
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21-Jun-2024
10:55
RUCHA
PATEL



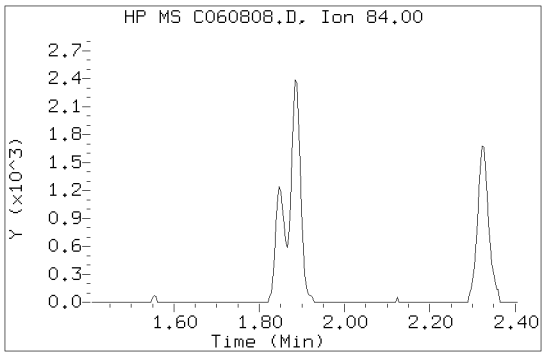
BEFORE

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0
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
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AREA
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HEIGHT
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21-Jun-2024
10:55
RUCHA
PATEL

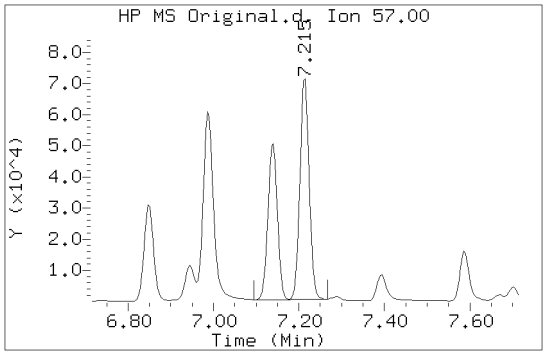


sec-Butyl Ether (6863-58-7)

Reason Code:

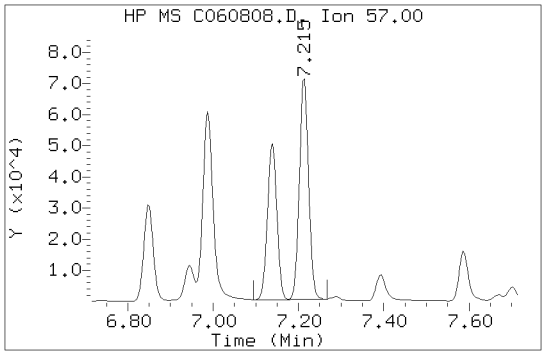
BEFORE

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HEIGHT
70832
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
57
AREA
186288
HEIGHT
70832
21-Jun-2024
10:55
RUCHA
PATEL



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240608.b\C060809.D Page 1
Report Date: 21-Jun-2024 10:56

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240608.b\C060809.D
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Inj Date : 08-JUN-2024 18:25
Operator : TS Inst ID: VOA9.i
Smp Info : VSTD100;VSTD100;1;8
Misc Info : V9;WATER;0;1;
Comment   :
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Meth Date : 21-Jun-2024 10:56 VOA9.i Quant Type: ISTD
Cal Date : 08-JUN-2024 18:03 Cal File: C060808.D
Als bottle: 9 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.815	4.815	(1.000)	273809	50.0000	
2 Dichlorodifluoromethane	85	1.168	1.168	(0.243)	172576	100.000	98.15
3 Chloromethane	50	1.299	1.299	(0.270)	375166	100.000	99.77
4 Propionitrile	54	4.335	4.335	(0.900)	265719	1000.00	1020.42
5 Vinyl Chloride	62	1.382	1.382	(0.287)	230936	100.000	98.68
6 Bromomethane	94	1.618	1.618	(0.336)	105037	100.000	98.37
7 Chloroethane	64	1.700	1.700	(0.353)	151176	100.000	98.81
8 Trichlorofluoromethane	101	1.899	1.899	(0.394)	264839	100.000	98.15
9 Acrolein	56	2.266	2.266	(0.471)	17977	200.000	207.71
10 Acetone	43	2.409	2.409	(0.500)	141231	200.000	202.28
11 1,1-Dichloroethene	96	2.334	2.334	(0.485)	153551	100.000	90.58
12 Isobutyl Alcohol	43	5.280	5.280	(1.097)	538841	2000.00	2039.39
13 Acetonitrile	39	2.671	2.671	(0.555)	211458	1000.00	1009.66
14 Allyl Chloride	41	2.675	2.675	(0.556)	497912	100.000	101.33
15 Iodomethane	142	2.469	2.469	(0.513)	143674	200.000	199.76
16 Acrylonitrile	53	3.065	3.065	(0.636)	135951	200.000	202.59
17 Methylene Chloride	84	2.795	2.795	(0.580)	183724	100.000	99.23
18 Methyl tert-butyl ether	73	3.080	3.080	(0.640)	464875	100.000	100.80
19 Carbon Disulfide	76	2.521	2.521	(0.524)	942151	200.000	187.68
20 trans-1,2-Dichloroethene	96	3.061	3.061	(0.636)	166840	100.000	98.53

21 Vinyl Acetate	43	4.339	4.339 (0.901)	194171	200.000	197.26
22 1,1-Dichloroethane	63	3.515	3.515 (0.730)	321607	100.000	98.95

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240608.b\C060809.D Page 2
Report Date: 21-Jun-2024 10:56

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	3.612	3.612	(0.750)	282560	100.000	93.76
	24 2-Butanone	43	4.260	4.260	(0.885)	189755	200.000	198.65
	25 Methacrylonitrile	41	4.493	4.493	(0.933)	126775	100.000	106.13(a)
	26 2,2-Dichloropropane	77	4.182	4.182	(0.868)	251882	100.000	94.40
	27 cis-1,2-Dichloroethene	96	4.197	4.197	(0.872)	201546	100.000	98.96
	28 Chloroform	83	4.572	4.572	(0.949)	326260	100.000	99.22
	29 Bromochloromethane	128	4.470	4.470	(0.928)	98687	100.000	99.43
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	177424	100.000	100.60
	31 1,1,1-Trichloroethane	97	4.744	4.744	(0.985)	266423	100.000	97.79
	32 1,1-Dichloropropene	75	4.920	4.920	(0.887)	250790	100.000	97.64
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	260958	100.000	99.20
	34 Carbon Tetrachloride	117	4.913	4.913	(0.885)	215655	100.000	98.79
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	214083	100.000	101.01
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	396596	50.0000	
	37 Benzene	78	5.138	5.138	(0.926)	736706	100.000	97.52
	38 Trichloroethene	130	5.786	5.786	(1.043)	190526	100.000	96.50
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	233273	100.000	97.35
	40 Methyl Methacrylate	41	5.816	5.816	(1.208)	73669	100.000	102.40
	41 2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	100670	200.000	194.75
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	202776	100.000	98.45
	43 2-Nitropropane	43	6.506	6.506	(1.351)	48139	100.000	102.47(M)
	44 Dibromomethane	93	6.116	6.116	(1.102)	117419	100.000	98.62
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	402704	200.000	197.62
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	307909	100.000	103.99
*	47 Chlorobenzene-d5	117	8.182	8.182	(1.000)	356744	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.846)	665153	100.000	99.65
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	258657	100.000	99.93
	50 Toluene	91	6.978	6.978	(0.853)	762794	100.000	97.81
	51 trans-1,3-Dichloropropene	75	7.192	7.192	(1.296)	251785	100.000	106.90
	52 2-Hexanone	43	7.214	7.214	(0.882)	255452	200.000	199.90
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	146326	100.000	98.14
	54 1,3-Dichloropropane	76	7.496	7.496	(0.916)	315948	100.000	97.77
	55 Dibromochloromethane	129	7.691	7.691	(0.940)	183831	100.000	106.30
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	151619	100.000	94.16
	57 1,2-Dibromoethane	107	7.781	7.781	(0.951)	174034	100.000	97.83
	58 1-Chlorohexane	55	8.193	8.193	(1.476)	152000	100.000	98.13
	59 Chlorobenzene	112	8.208	8.208	(1.003)	490713	100.000	98.17
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	176912	100.000	97.11
	61 Ethylbenzene	106	8.305	8.305	(1.015)	252143	100.000	91.69
	62 m,p-Xylenes	106	8.407	8.407	(1.027)	646320	200.000	189.51
	63 o-Xylene	106	8.744	8.744	(1.069)	310502	100.000	93.26
	64 Styrene	104	8.759	8.759	(1.071)	518148	100.000	97.15
	66 Bromoform	173	8.916	8.916	(1.090)	116190	100.000	98.90
	67 Isopropylbenzene	105	9.059	9.059	(1.107)	785203	100.000	98.37
	68 1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	241806	100.000	97.91
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	245160	100.000	99.99
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	190495	50.0000	
	71 1,2,3-Trichloropropane	75	9.359	9.359	(0.920)	252871	100.000	100.21
	72 trans-1,4-Dichloro-2-butene	53	9.374	9.374	(1.146)	55253	100.000	101.40
	73 n-Propylbenzene	91	9.407	9.407	(0.925)	894204	100.000	96.76
	74 Bromobenzene	156	9.314	9.314	(0.916)	215240	100.000	97.40
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	634215	100.000	98.34

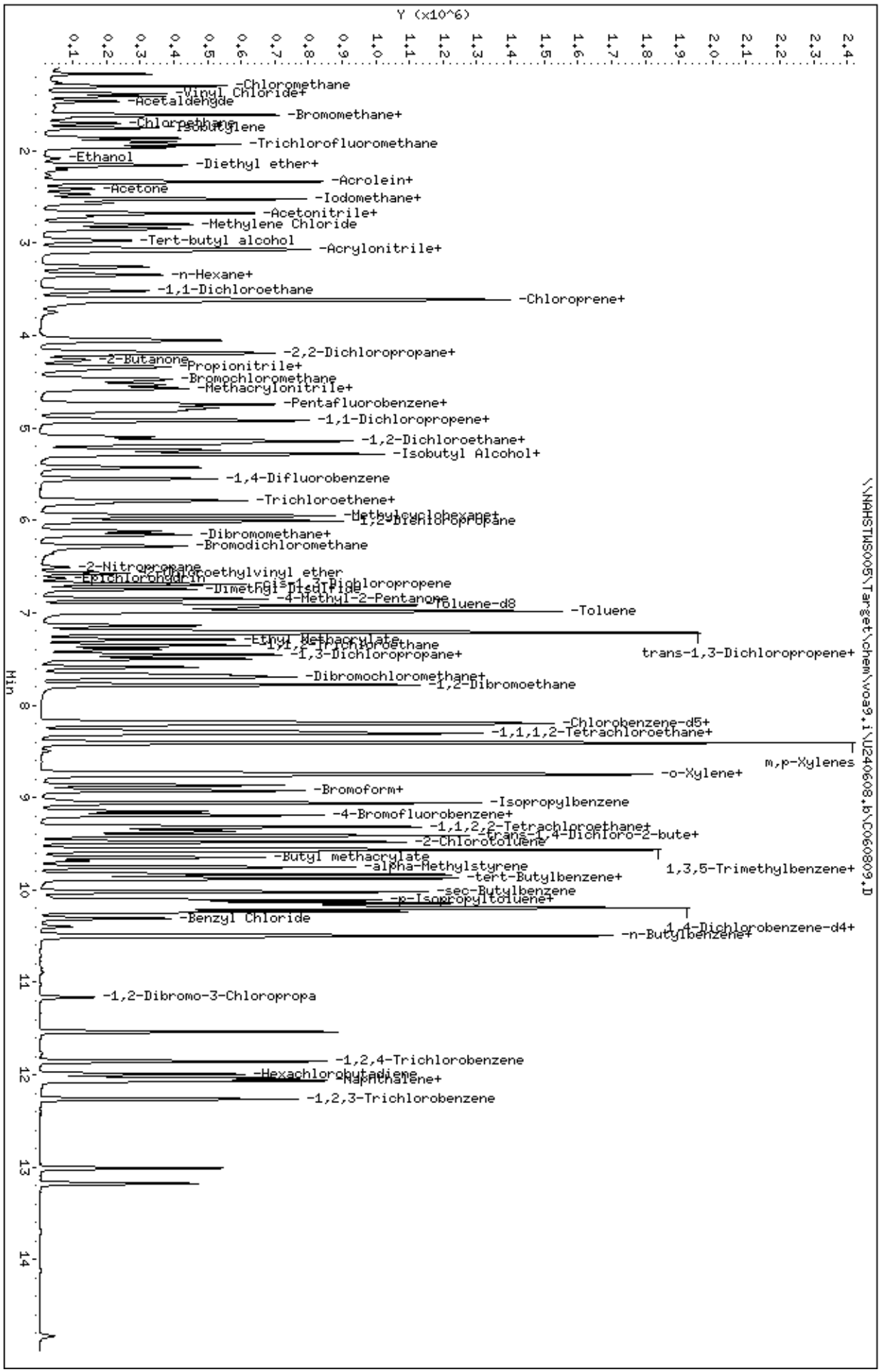
76	2-Chlorotoluene	91	9.479	9.479 (0.932)	550332	100.000	98.36
77	4-Chlorotoluene	91	9.572	9.572 (0.941)	637599	100.000	90.92

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	543310	100.000	99.33
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	626930	100.000	96.35
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	746049	100.000	101.12
82	p-Isopropyltoluene	119	10.142	10.142	(0.997)	644698	100.000	101.32
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	379290	100.000	98.95
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	392684	100.000	97.65
86	Benzyl Chloride	91	10.307	10.307	(1.260)	249861	100.000	98.67
87	n-Butylbenzene	91	10.491	10.491	(1.032)	568394	100.000	97.69
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	371804	100.000	98.11
89	1,2-Dibromo-3-Chloropropane	155	11.166	11.166	(1.098)	32231	100.000	99.95
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	253867	100.000	92.70
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	110456	100.000	98.77
92	Naphthalene	128	12.065	12.065	(1.187)	588697	100.000	99.28
93	1,2,3-Trichlorobenzene	180	12.264	12.264	(1.206)	227090	100.000	98.78
146	Methyl acetate	43	2.712	2.712	(0.563)	149302	100.000	99.62
138	Freon TF	101	2.337	2.337	(0.485)	152658	100.000	97.99
141	Cyclohexane	56	4.785	4.785	(0.994)	247468	100.000	98.80
142	Tetrahydrofuran	42	4.538	4.538	(0.942)	67599	200.000	200.36
147	Methylcyclohexane	55	5.944	5.944	(1.071)	464973	100.000	100.93(A)
135	1,4-Dioxane	88	6.165	6.165	(1.280)	41327	2000.00	2054.35
132	n-Butanol	56	5.820	5.820	(1.209)	106979	2000.00	2050.07
136	n-Hexane	57	3.342	3.342	(0.694)	178537	100.000	100.85
139	Diethyl ether	59	2.146	2.146	(0.446)	136945	100.000	101.87
148	Tert-butyl alcohol	59	2.971	2.971	(0.617)	313440	2000.00	2044.82
149	Isopropyl alcohol	45	2.566	2.566	(0.533)	247269	2000.00	2071.50
156	Diisopropyl ether	45	3.619	3.619	(0.752)	602070	100.000	101.00
162	Butyl acrylate	55	8.729	8.729	(1.067)	333335	100.000	100.09
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	858937	100.000	100.93
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	570916	100.000	100.16
167	Ethanol	45	2.083	2.083	(0.433)	44675	2000.00	2015.14
172	tert-Butyl formate	59	5.239	5.239	(1.088)	289706	200.000	200.40(A)
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	1107455	2000.00	2030.37
140	1,3-Butadiene	54	1.408	1.408	(0.292)	96717	100.000	93.13
182	Epichlorohydrin	57	6.626	6.626	(1.194)	43618	400.000	400.63
M 94	1,2-Dichloroethylene (total)	96				368386	200.000	(a)
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	255010	100.000	100.35
130	Ethyl Acetate	43	4.530	4.530	(0.941)	63828	100.000	102.42(M)
131	Methyl Acrylate	55	4.365	4.365	(0.907)	218275	100.000	100.42
189	n-Butyl acetate	43	7.702	7.702	(0.941)	306708	100.000	98.74
134	Cyclohexanone	55	9.149	9.149	(0.900)	182927	2000.00	2011.96
185	Isoprene	39	2.157	2.157	(0.448)	44760	100.000	100.05
188	Isopropyl acetate	43	5.280	5.280	(0.951)	534940	100.000	100.80
150	Allyl alcohol	57	3.342	3.342	(0.694)	178537	2000.00	2017.12
194	Acetaldehyde	44	1.464	1.464	(0.304)	184067	400.000	394.85
200	Dimethyl Disulfide	94	6.746	6.746	(0.825)	191941	100.000	99.89
202	Isobutylene	41	1.753	1.753	(0.364)	92651	100.000	101.88(M)
133	Ethyl Acrylate	55	5.944	5.944	(1.234)	464973	100.000	101.96
163	Butyl methacrylate	41	9.644	9.644	(0.948)	166635	100.000	97.70
159	Propylene oxide	43	2.202	2.202	(0.457)	32702	200.000	213.39(A)
178	Ethylene oxide	44	1.606	1.606	(0.334)	621795	200.000	211.68
203	2-Ethylhexyl Acrylate	55	12.035	12.035	(1.184)	242617	100.000	101.53
204	Tetrahydrothiophene	60	7.668	7.668	(0.937)	200882	100.000	99.97(A)

205 sec-Butyl Ether	57	7.214	7.214 (0.882)	391702	100.000	100.52(AM)
187 n-Amyl acetate	43	8.928	8.928 (1.091)	298851	100.000	98.10

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.



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Client ID: VSTD100
Sample Info: VSTD100;VSTD100;1;8
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Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

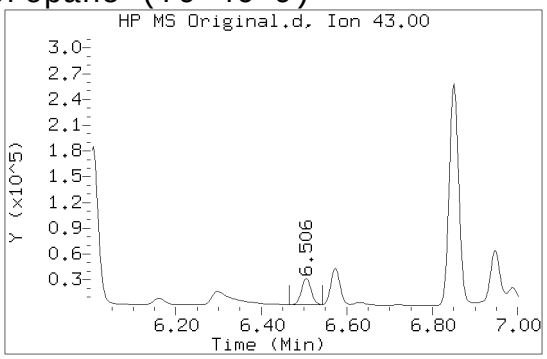
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InstruID : VOA9.i
LabSampID : VSTD100

2-Nitropropane (79-46-9)

Reason Code:

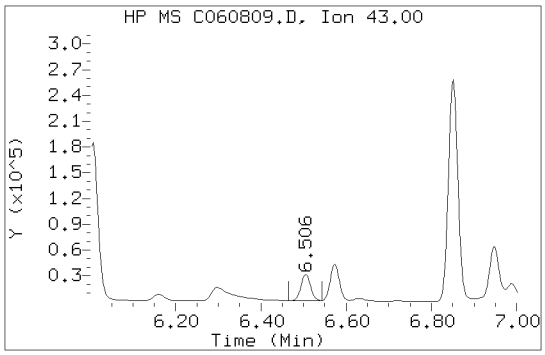
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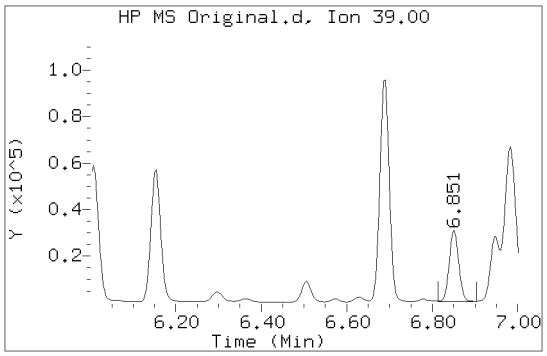
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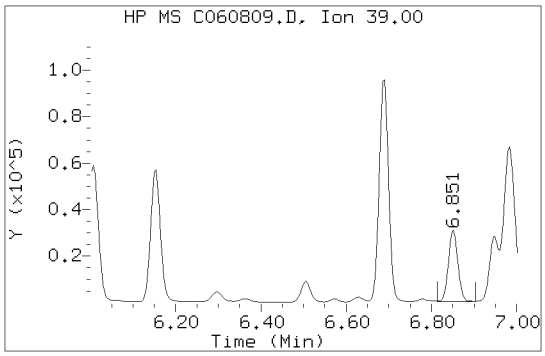
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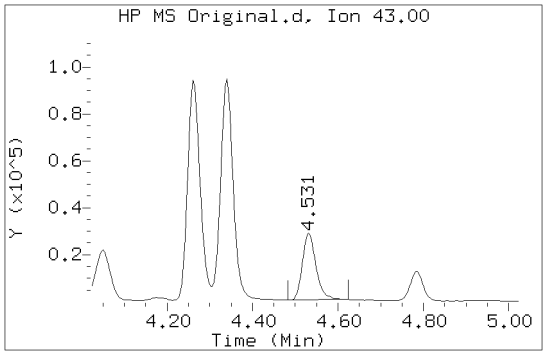


Ethyl Acetate (141-78-6)

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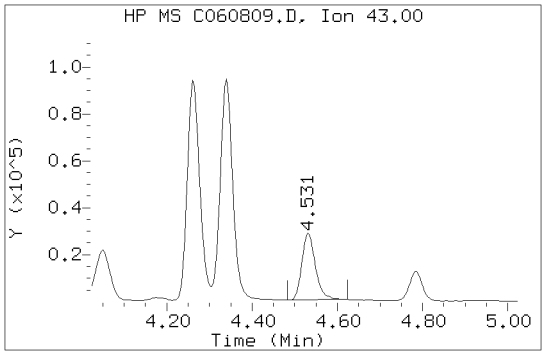
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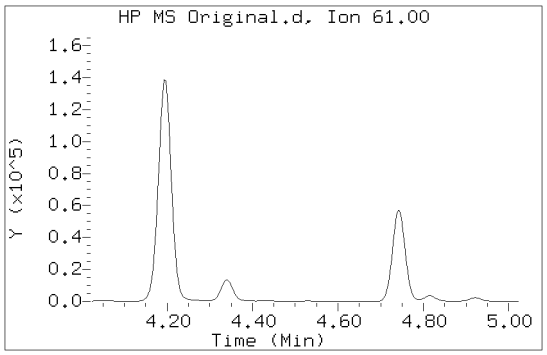
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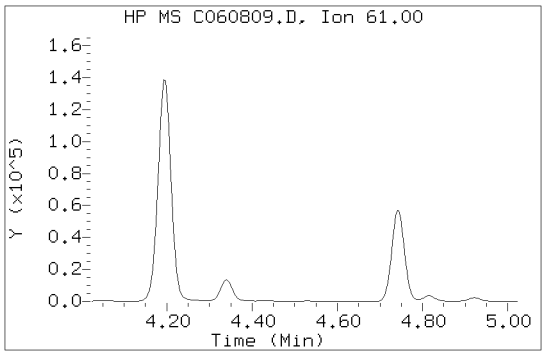
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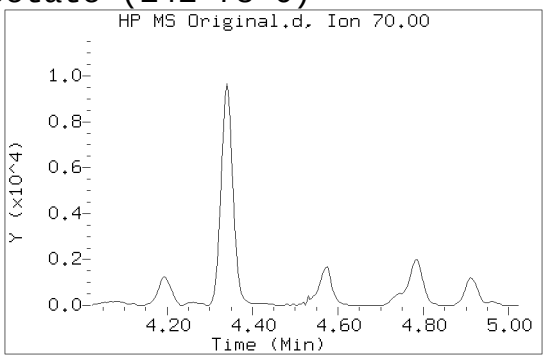
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LabSampID : VSTD100

Ethyl Acetate (141-78-6)

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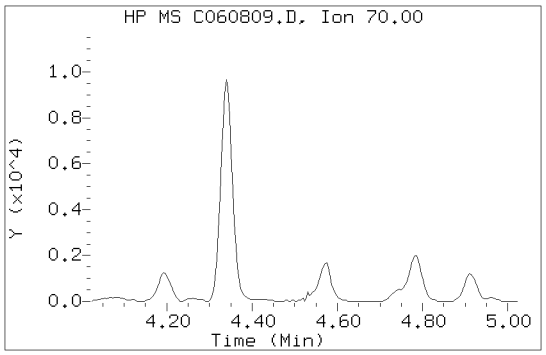
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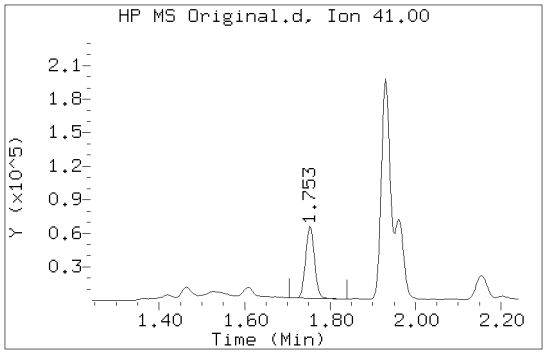


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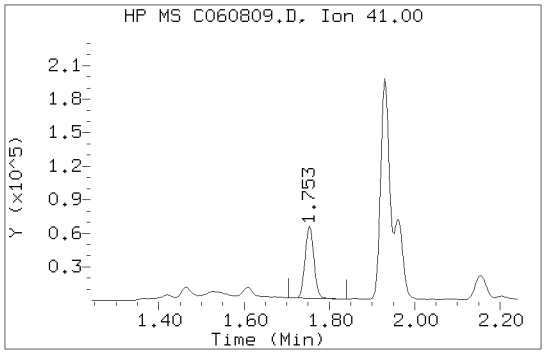
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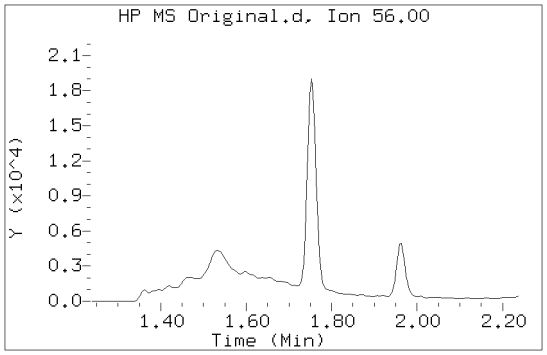
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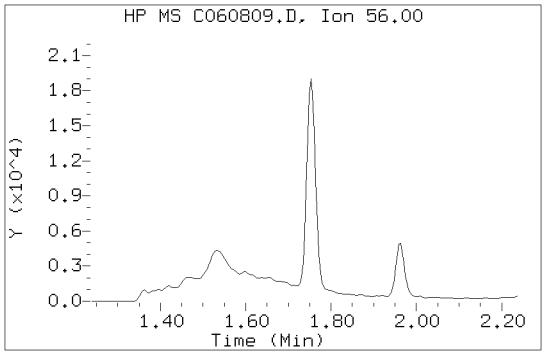
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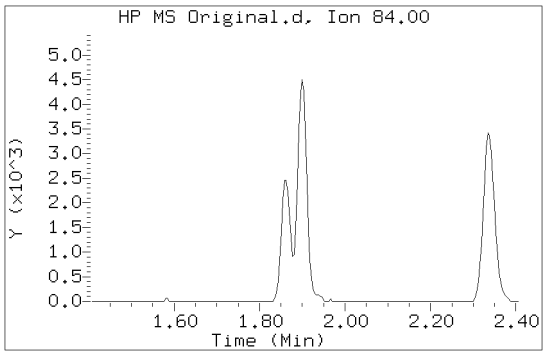
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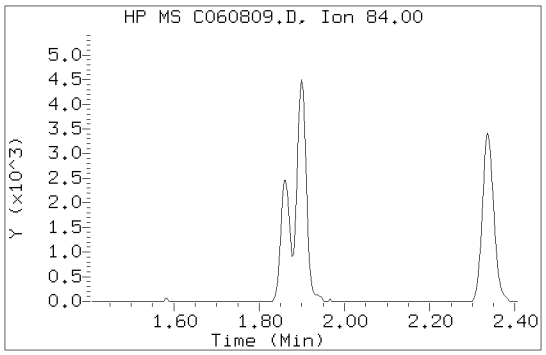
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AFTER

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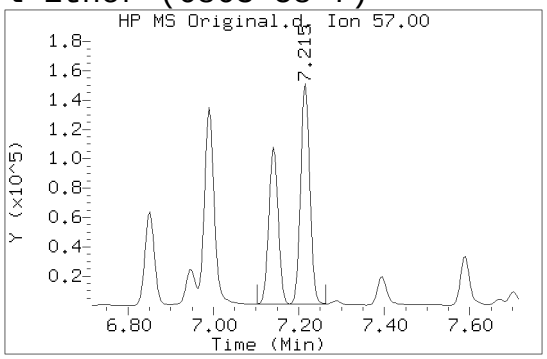
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Inj Date : 08-JUN-2024 18:25
InstruID : VOA9.i
LabSampID : VSTD100

sec-Butyl Ether (6863-58-7)

Reason Code:

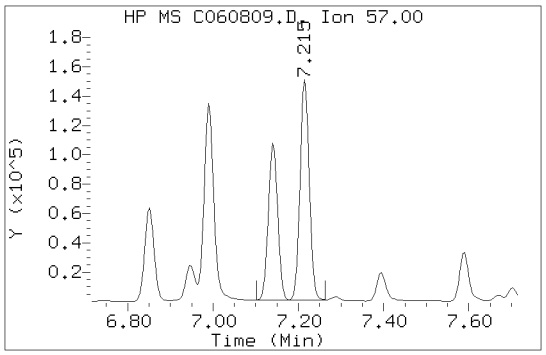
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AFTER

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21-Jun-2024
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Data File: \\NAHSTWS005\Target\chem\voa9.i\U240608.b\C060810.D Page 1
Report Date: 21-Jun-2024 10:56

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240608.b\C060810.D
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Inj Date : 08-JUN-2024 18:46
Operator : TS Inst ID: VOA9.i
Smp Info : VSTD150;VSTD150;1;9
Misc Info : V9;WATER;0;1;
Comment   :
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Cal Date : 08-JUN-2024 18:25 Cal File: C060809.D
Als bottle: 10 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.811	4.811	(1.000)	279289	50.0000	
2	Dichlorodifluoromethane	85	1.160	1.160	(0.241)	274242	150.000	150.64
3	Chloromethane	50	1.291	1.291	(0.268)	548648	150.000	149.95
4	Propionitrile	54	4.332	4.332	(0.900)	388765	1500.00	1467.16
5	Vinyl Chloride	62	1.374	1.374	(0.286)	364928	150.000	150.27
6	Bromomethane	94	1.606	1.606	(0.334)	168740	150.000	149.75
7	Chloroethane	64	1.692	1.692	(0.352)	234954	150.000	150.38
8	Trichlorofluoromethane	101	1.891	1.891	(0.393)	421665	150.000	153.20(Q)
9	Acrolein	56	2.259	2.259	(0.469)	26754	300.000	299.73
10	Acetone	43	2.405	2.405	(0.500)	203859	300.000	304.70
11	1,1-Dichloroethene	96	2.330	2.330	(0.484)	242959	150.000	140.51
12	Isobutyl Alcohol	43	5.280	5.280	(1.097)	803266	3000.00	2922.00
13	Acetonitrile	39	2.667	2.667	(0.554)	315818	1500.00	1490.70
14	Allyl Chloride	41	2.667	2.667	(0.554)	738593	150.000	148.28
15	Iodomethane	142	2.465	2.465	(0.512)	290737	300.000	247.12(Q)
16	Acrylonitrile	53	3.061	3.061	(0.636)	200817	300.000	294.21
17	Methylene Chloride	84	2.791	2.791	(0.580)	280904	150.000	148.81
18	Methyl tert-butyl ether	73	3.076	3.076	(0.639)	695220	150.000	148.21
19	Carbon Disulfide	76	2.517	2.517	(0.523)	1495304	300.000	292.02
20	trans-1,2-Dichloroethene	96	3.053	3.053	(0.635)	260747	150.000	150.01(Q)

21 Vinyl Acetate	43	4.335	4.335 (0.901)	304131	300.000	300.73
22 1,1-Dichloroethane	63	3.511	3.511 (0.730)	497285	150.000	150.09

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240608.b\C060810.D Page 2
Report Date: 21-Jun-2024 10:56

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	3.604	3.604	(0.749)	444895	150.000	144.73
	24 2-Butanone	43	4.257	4.257	(0.885)	292571	300.000	301.03
	25 Methacrylonitrile	41	4.489	4.489	(0.933)	177050	150.000	143.42(a)
	26 2,2-Dichloropropane	77	4.178	4.178	(0.868)	398576	150.000	146.44
	27 cis-1,2-Dichloroethene	96	4.193	4.193	(0.871)	312923	150.000	149.81
	28 Chloroform	83	4.568	4.568	(0.949)	502518	150.000	149.59
	29 Bromochloromethane	128	4.467	4.467	(0.928)	151051	150.000	149.39
$	30 Dibromofluoromethane	113	4.744	4.744	(0.986)	267472	150.000	148.16
	31 1,1,1-Trichloroethane	97	4.740	4.740	(0.985)	422487	150.000	152.03
	32 1,1-Dichloropropene	75	4.920	4.920	(0.887)	396356	150.000	152.28
	33 1,2-Dichloroethane	62	5.171	5.171	(0.932)	397514	150.000	151.33
	34 Carbon Tetrachloride	117	4.909	4.909	(0.885)	349099	150.000	159.67
$	35 1,2-Dichloroethane-d4	65	5.093	5.093	(1.058)	316559	150.000	146.92
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	397213	50.0000	
	37 Benzene	78	5.134	5.134	(0.925)	1152551	150.000	152.09
	38 Trichloroethene	130	5.786	5.786	(1.043)	301456	150.000	152.47
	39 Bromodichloromethane	83	6.273	6.273	(1.130)	365201	150.000	152.18
	40 Methyl Methacrylate	41	5.816	5.816	(1.209)	111787	150.000	147.24
	41 2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	183283	300.000	310.59
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	312951	150.000	151.33
	43 2-Nitropropane	43	6.506	6.506	(1.352)	74577	150.000	148.85(M)
	44 Dibromomethane	93	6.116	6.116	(1.102)	180028	150.000	151.04
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	634940	300.000	304.73
	46 cis-1,3-Dichloropropene	75	6.686	6.686	(1.205)	484156	150.000	163.27
*	47 Chlorobenzene-d5	117	8.181	8.181	(1.000)	358412	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.846)	999177	150.000	150.48
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	405729	150.000	151.47
	50 Toluene	91	6.978	6.978	(0.853)	1182635	150.000	152.25
	51 trans-1,3-Dichloropropene	75	7.192	7.192	(1.296)	398735	150.000	169.04
	52 2-Hexanone	43	7.214	7.214	(0.882)	384475	300.000	297.86(Q)
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	224338	150.000	151.59
	54 1,3-Dichloropropane	76	7.495	7.495	(0.916)	489975	150.000	152.20
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	292106	150.000	168.12
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	237001	150.000	146.50
	57 1,2-Dibromoethane	107	7.780	7.780	(0.951)	272353	150.000	152.40
	58 1-Chlorohexane	55	8.193	8.193	(1.476)	246802	150.000	153.52
	59 Chlorobenzene	112	8.208	8.208	(1.003)	755768	150.000	151.61
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	278371	150.000	151.69
	61 Ethylbenzene	106	8.305	8.305	(1.015)	396663	150.000	143.57
	62 m,p-Xylenes	106	8.406	8.406	(1.027)	1006912	300.000	293.88
	63 o-Xylene	106	8.744	8.744	(1.069)	485990	150.000	145.29
	64 Styrene	104	8.759	8.759	(1.071)	810043	150.000	151.18
	66 Bromoform	173	8.916	8.916	(1.090)	189903	150.000	153.67
	67 Isopropylbenzene	105	9.059	9.059	(1.107)	1222864	150.000	152.49
	68 1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	372465	150.000	151.66
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	364179	150.000	149.57
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	189924	50.0000	
	71 1,2,3-Trichloropropane	75	9.359	9.359	(0.920)	397780	150.000	158.45
	72 trans-1,4-Dichloro-2-butene	53	9.374	9.374	(1.146)	81574	150.000	147.73
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	1388766	150.000	150.72
	74 Bromobenzene	156	9.314	9.314	(0.916)	334140	150.000	152.16
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	981415	150.000	152.31

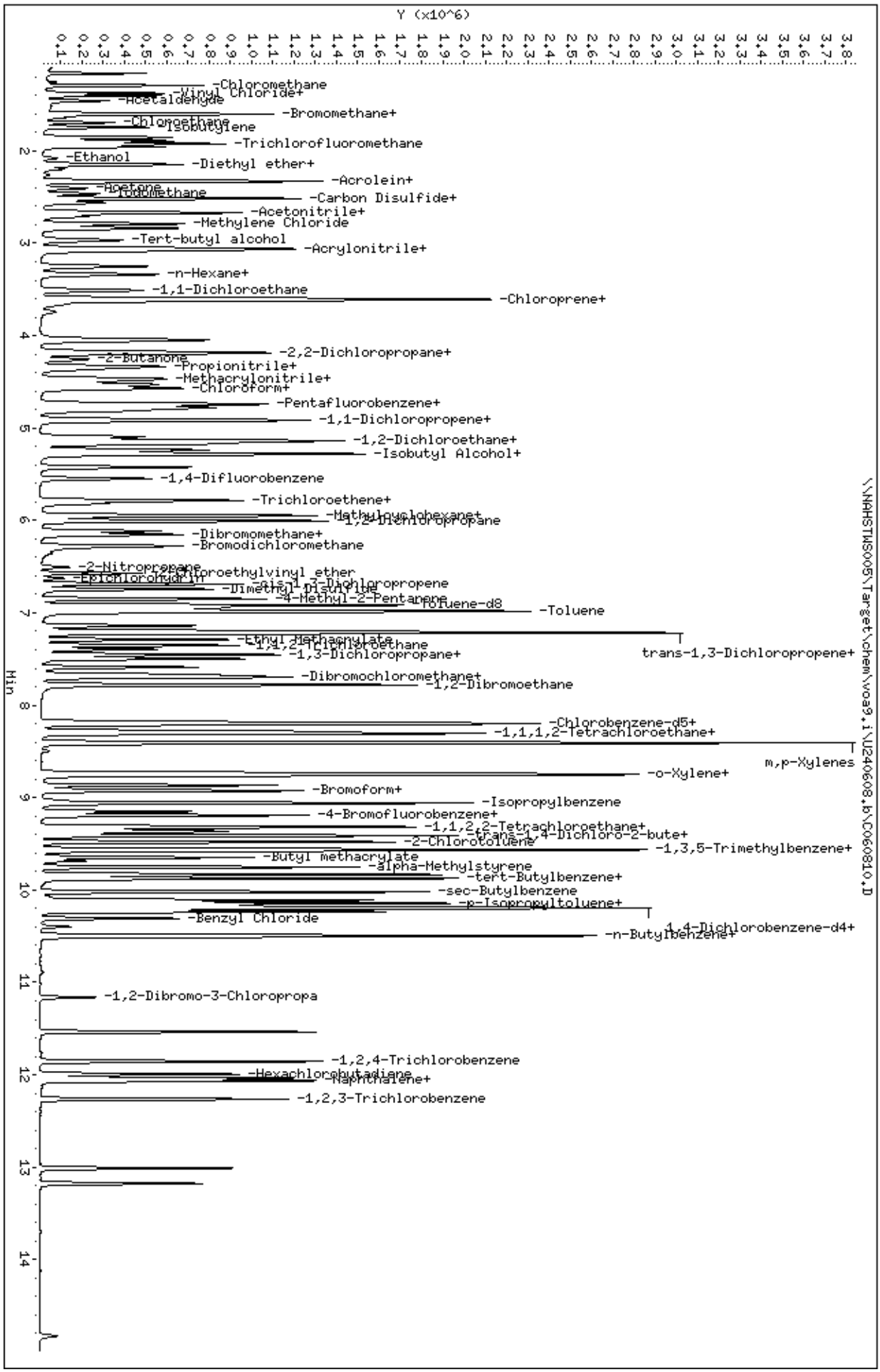
76	2-Chlorotoluene	91	9.479	9.479 (0.932)	842207	150.000	151.87
77	4-Chlorotoluene	91	9.572	9.572 (0.941)	984139	150.000	140.75

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	848302	150.000	155.55
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	978064	150.000	150.77
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	1155935	150.000	157.15
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	1005674	150.000	158.52
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	582084	150.000	152.61
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	605903	150.000	152.46
86	Benzyl Chloride	91	10.307	10.307	(1.260)	415227	150.000	152.69
87	n-Butylbenzene	91	10.491	10.491	(1.032)	885278	150.000	152.61
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	568759	150.000	151.76
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	51101	150.000	151.06
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	391619	150.000	143.43
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	172845	150.000	153.13
92	Naphthalene	128	12.065	12.065	(1.187)	902075	150.000	150.69
93	1,2,3-Trichlorobenzene	180	12.264	12.264	(1.206)	349701	150.000	151.19
146	Methyl acetate	43	2.708	2.708	(0.563)	228072	150.000	149.75
138	Freon TF	101	2.330	2.330	(0.484)	243535	150.000	153.26
141	Cyclohexane	56	4.781	4.781	(0.994)	390553	150.000	150.88
142	Tetrahydrofuran	42	4.534	4.534	(0.942)	99816	300.000	299.75
147	Methylcyclohexane	55	5.943	5.943	(1.071)	695531	150.000	150.12(A)
135	1,4-Dioxane	88	6.161	6.161	(1.280)	60418	3000.00	2921.16
132	n-Butanol	56	5.816	5.816	(1.209)	165482	3000.00	2975.10
136	n-Hexane	57	3.338	3.338	(0.694)	277009	150.000	153.41(Q)
139	Diethyl ether	59	2.142	2.142	(0.445)	201448	150.000	147.19(Q)
148	Tert-butyl alcohol	59	2.967	2.967	(0.617)	461428	3000.00	2923.19
149	Isopropyl alcohol	45	2.562	2.562	(0.533)	353198	3000.00	2881.61
156	Diisopropyl ether	45	3.616	3.616	(0.751)	898835	150.000	148.13
162	Butyl acrylate	55	8.729	8.729	(1.067)	534852	150.000	150.95(Q)
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	1273159	150.000	150.27
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	844686	150.000	150.83
167	Ethanol	45	2.082	2.082	(0.433)	66142	3000.00	2993.71
172	tert-Butyl formate	59	5.239	5.239	(1.089)	503775	300.000	340.01(A)
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	1684474	3000.00	2982.54
140	1,3-Butadiene	54	1.400	1.400	(0.291)	154104	150.000	145.48
182	Epichlorohydrin	57	6.626	6.626	(1.194)	69643	600.000	599.57
M 94	1,2-Dichloroethylene (total)	96				573670	300.000	(a)
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	407547	150.000	160.86
130	Ethyl Acetate	43	4.530	4.530	(0.942)	88575	150.000	143.07(M)
131	Methyl Acrylate	55	4.362	4.362	(0.907)	325958	150.000	147.05
189	n-Butyl acetate	43	7.702	7.702	(0.941)	492026	150.000	152.07
134	Cyclohexanone	55	9.149	9.149	(0.900)	265864	3000.00	3094.82(Q)
185	Isoprene	39	2.154	2.154	(0.448)	68555	150.000	149.93
188	Isopropyl acetate	43	5.280	5.280	(0.951)	797496	150.000	147.75
150	Allyl alcohol	57	3.338	3.338	(0.694)	277009	3000.00	3068.25
194	Acetaldehyde	44	1.456	1.456	(0.303)	266240	600.000	606.29
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	344468	150.000	80.26
202	Isobutylene	41	1.745	1.745	(0.363)	136181	150.000	148.83(M)
133	Ethyl Acrylate	55	5.943	5.943	(1.235)	695531	150.000	148.15
163	Butyl methacrylate	41	9.647	9.647	(0.949)	250327	150.000	144.55(Q)
159	Propylene oxide	43	2.195	2.195	(0.456)	45840	300.000	294.37(A)
178	Ethylene oxide	44	1.599	1.599	(0.332)	850228	300.000	298.71
203	2-Ethylhexyl Acrylate	55	12.035	12.035	(1.184)	376546	150.000	149.45
204	Tetrahydrothiophene	60	7.668	7.668	(0.937)	299712	150.000	150.41(A)

205 sec-Butyl Ether	57	7.214	7.214 (0.882)	603042	150.000	150.10(AM)
187 n-Amyl acetate	43	8.927	8.927 (1.091)	485687	150.000	151.80

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.



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Client ID: VSTD150
Sample Info: VSTD150;VSTD150;1;9
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Column phase: DB624

Instrument: VOA9.i
Operator: TS
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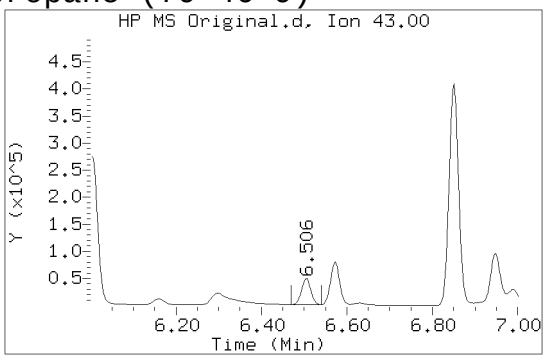
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InstruID : VOA9.i
LabSampID : VSTD150

2-Nitropropane (79-46-9)

Reason Code:

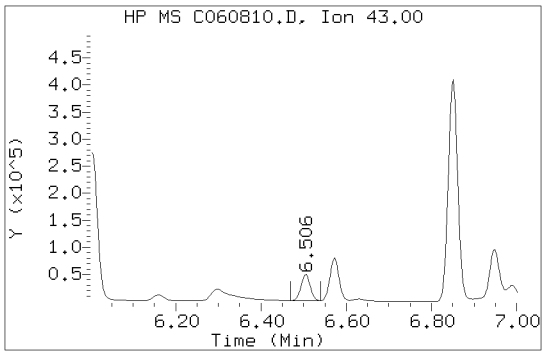
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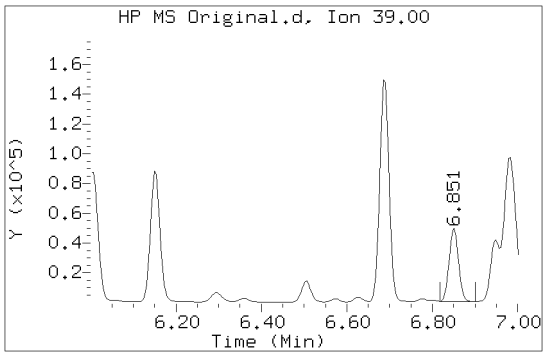
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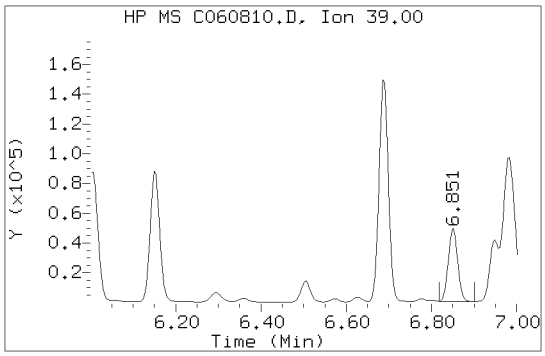
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AFTER

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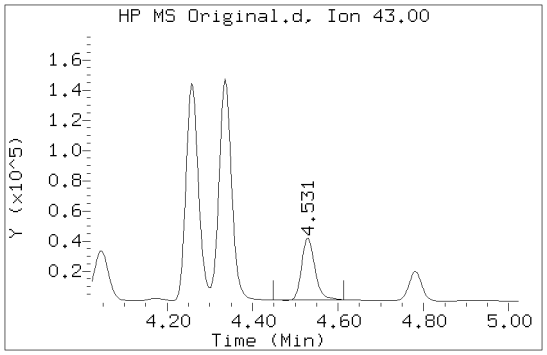


Ethyl Acetate (141-78-6)

Reason Code:

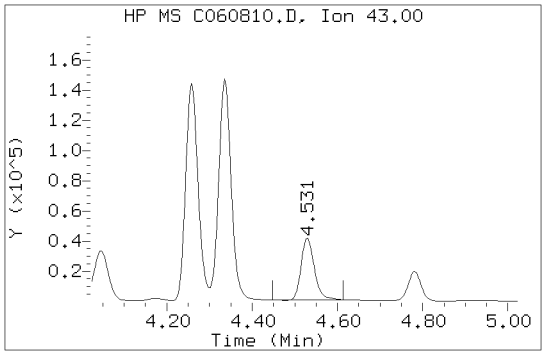
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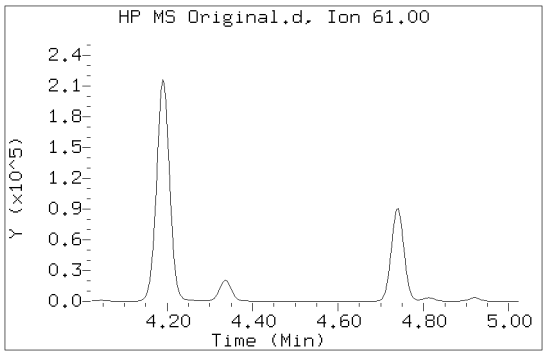
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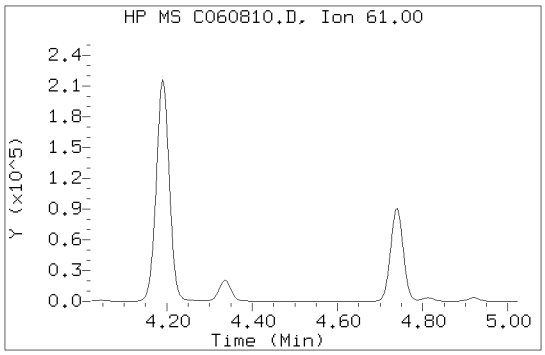
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AFTER

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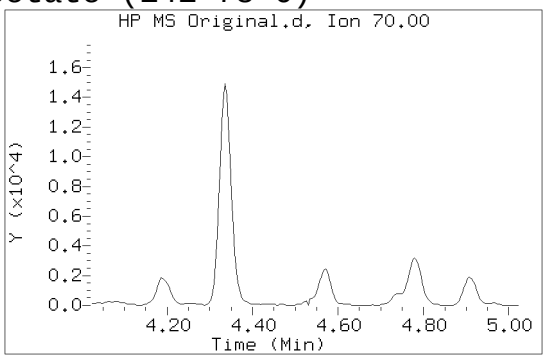
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Inj Date : 08-JUN-2024 18:46
InstruID : VOA9.i
LabSampID : VSTD150

Ethyl Acetate (141-78-6)

Reason Code:

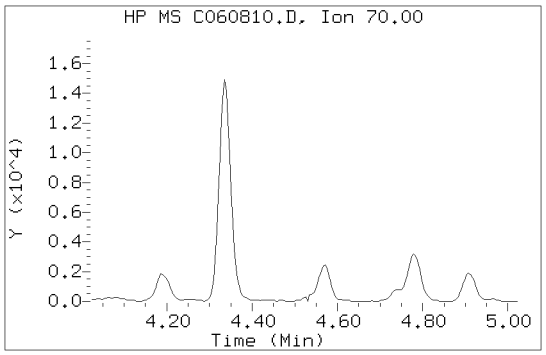
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21-Jun-2024
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PATEL



AFTER

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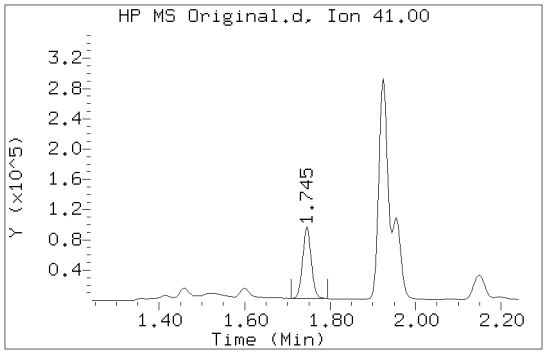


Isobutylene (115-11-7)

Reason Code:

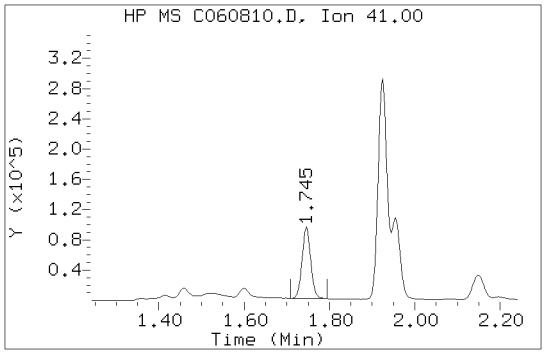
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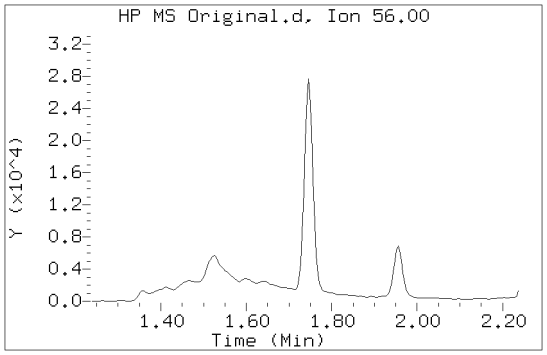
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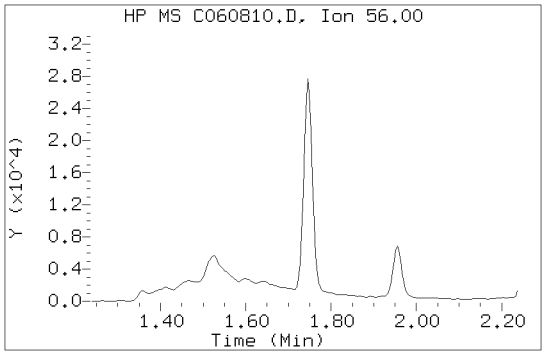
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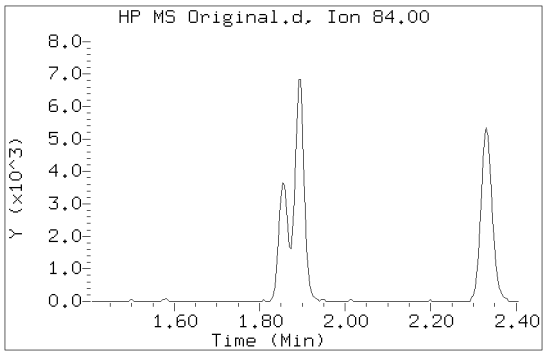
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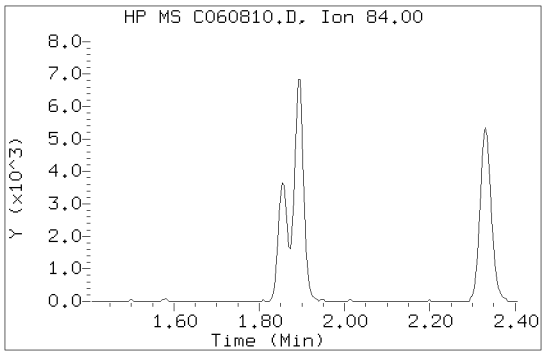
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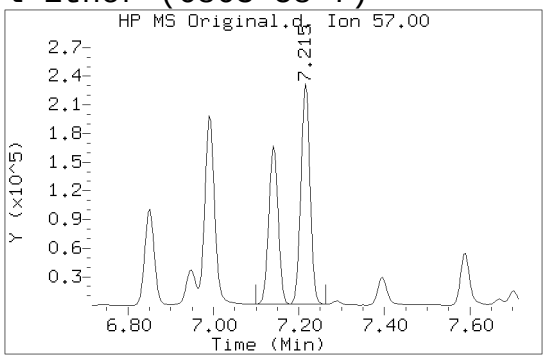
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Inj Date : 08-JUN-2024 18:46
InstruID : VOA9.i
LabSampID : VSTD150

sec-Butyl Ether (6863-58-7)

Reason Code:

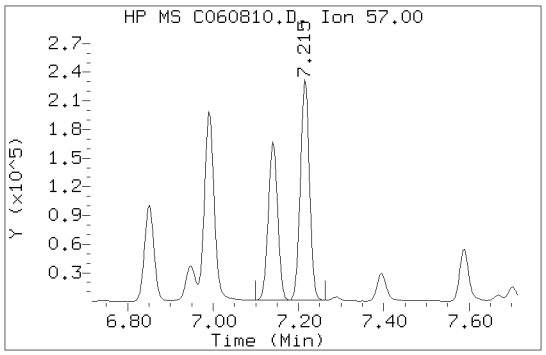
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Data File: \\NAHSTWS005\Target\chem\voa9.i\U240608.b\C060811.D Page 1
Report Date: 21-Jun-2024 10:56

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240608.b\C060811.D
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Inj Date : 08-JUN-2024 19:08
Operator : TS Inst ID: VOA9.i
Smp Info : VSTD200;VSTD200;1;10
Misc Info : V9;WATER;0;1;
Comment   :
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Meth Date : 21-Jun-2024 10:56 VOA9.i Quant Type: ISTD
Cal Date : 08-JUN-2024 18:46 Cal File: C060810.D
Als bottle: 11 Calibration Sample, Level: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.811	4.811	(1.000)	280548	50.0000	
2	Dichlorodifluoromethane	85	1.157	1.157	(0.240)	371413	200.000	199.97(M)
3	Chloromethane	50	1.288	1.288	(0.268)	705941	200.000	200.07(A)
4	Propionitrile	54	4.332	4.332	(0.900)	535148	2000.00	2013.53(A)
5	Vinyl Chloride	62	1.370	1.370	(0.285)	497446	200.000	200.09(AM)
6	Bromomethane	94	1.599	1.599	(0.332)	236650	200.000	200.34(A)
7	Chloroethane	64	1.685	1.685	(0.350)	314639	200.000	200.01(A)
8	Trichlorofluoromethane	101	1.888	1.888	(0.392)	564397	200.000	204.14(AQ)
9	Acrolein	56	2.255	2.255	(0.469)	36272	400.000	398.68
10	Acetone	43	2.401	2.401	(0.499)	254391	400.000	396.70
11	1,1-Dichloroethene	96	2.322	2.322	(0.483)	331025	200.000	190.59
12	Isobutyl Alcohol	43	5.280	5.280	(1.097)	1144805	4000.00	4027.68(A)
13	Acetonitrile	39	2.663	2.663	(0.554)	422788	2000.00	2002.94(A)
14	Allyl Chloride	41	2.663	2.663	(0.554)	997736	200.000	200.60(A)
15	Iodomethane	142	2.457	2.457	(0.511)	476177	400.000	93.89(Q)
16	Acrylonitrile	53	3.057	3.057	(0.635)	275471	400.000	402.28(A)
17	Methylene Chloride	84	2.783	2.783	(0.579)	381367	200.000	200.71(A)
18	Methyl tert-butyl ether	73	3.072	3.072	(0.639)	943964	200.000	200.72(A)
19	Carbon Disulfide	76	2.510	2.510	(0.522)	2026665	400.000	394.02
20	trans-1,2-Dichloroethene	96	3.050	3.050	(0.634)	352325	200.000	200.23(AQ)

21 Vinyl Acetate	43	4.332	4.332 (0.900)	409844	400.000	400.06(A)
22 1,1-Dichloroethane	63	3.503	3.503 (0.728)	666457	200.000	200.13(A)

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240608.b\C060811.D Page 2
Report Date: 21-Jun-2024 10:56

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	3.601	3.601	(0.748)	601794	200.000	194.89
	24 2-Butanone	43	4.253	4.253	(0.884)	390232	400.000	399.71
	25 Methacrylonitrile	41	4.485	4.485	(0.932)	255896	200.000	201.63(aA)
	26 2,2-Dichloropropane	77	4.174	4.174	(0.868)	540231	200.000	197.60
	27 cis-1,2-Dichloroethene	96	4.189	4.189	(0.871)	423085	200.000	200.26(A)
	28 Chloroform	83	4.564	4.564	(0.949)	677817	200.000	200.33(A)
	29 Bromochloromethane	128	4.463	4.463	(0.928)	203508	200.000	200.39(A)
$	30 Dibromofluoromethane	113	4.740	4.740	(0.985)	366201	200.000	200.77(A)
	31 1,1,1-Trichloroethane	97	4.737	4.737	(0.984)	574346	200.000	205.75(A)
	32 1,1-Dichloropropene	75	4.916	4.916	(0.886)	539205	200.000	199.19
	33 1,2-Dichloroethane	62	5.171	5.171	(0.932)	537007	200.000	198.94
	34 Carbon Tetrachloride	117	4.905	4.905	(0.884)	477614	200.000	212.30(AM)
$	35 1,2-Dichloroethane-d4	65	5.093	5.093	(1.058)	435061	200.000	201.28(A)
*	36 1,4-Difluorobenzene	114	5.546	5.546	(1.000)	408728	50.0000	
	37 Benzene	78	5.134	5.134	(0.926)	1557511	200.000	199.30
	38 Trichloroethene	130	5.782	5.782	(1.043)	406218	200.000	199.68
	39 Bromodichloromethane	83	6.273	6.273	(1.131)	502044	200.000	203.31(A)
	40 Methyl Methacrylate	41	5.820	5.820	(1.210)	160768	200.000	200.81(AM)
	41 2-Chloroethylvinyl ether	63	6.573	6.573	(1.185)	281412	400.000	396.13
	42 1,2-Dichloropropane	63	6.004	6.004	(1.082)	425944	200.000	199.56
	43 2-Nitropropane	43	6.502	6.502	(1.351)	106540	200.000	200.10(AM)
	44 Dibromomethane	93	6.116	6.116	(1.103)	244943	200.000	199.68
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	876741	400.000	397.93
	46 cis-1,3-Dichloropropene	75	6.686	6.686	(1.205)	670192	200.000	219.64(A)
*	47 Chlorobenzene-d5	117	8.182	8.182	(1.000)	372888	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.846)	1368379	200.000	199.80
	49 Ethyl Methacrylate	69	7.289	7.289	(1.314)	567961	200.000	199.28
	50 Toluene	91	6.978	6.978	(0.853)	1598236	200.000	199.16
	51 trans-1,3-Dichloropropene	75	7.192	7.192	(1.297)	558122	200.000	229.94(A)
	52 2-Hexanone	43	7.218	7.218	(0.882)	543557	400.000	401.06(AQ)
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	304108	200.000	199.47
	54 1,3-Dichloropropane	76	7.496	7.496	(0.916)	662675	200.000	199.19
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	402141	200.000	222.47(A)
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	322645	200.000	191.70
	57 1,2-Dibromoethane	107	7.780	7.780	(0.951)	370054	200.000	199.06
	58 1-Chlorohexane	55	8.193	8.193	(1.477)	340925	200.000	198.51
	59 Chlorobenzene	112	8.208	8.208	(1.003)	1028435	200.000	199.45
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	382854	200.000	200.30(A)
	61 Ethylbenzene	106	8.305	8.305	(1.015)	541994	200.000	188.56
	62 m,p-Xylenes	106	8.406	8.406	(1.027)	1368683	400.000	383.96
	63 o-Xylene	106	8.744	8.744	(1.069)	657360	200.000	188.89
	64 Styrene	104	8.759	8.759	(1.071)	1112188	200.000	199.51
	66 Bromoform	173	8.916	8.916	(1.090)	265408	200.000	198.28
	67 Isopropylbenzene	105	9.059	9.059	(1.107)	1659011	200.000	198.84
	68 1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	507704	200.000	199.47
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	502075	200.000	200.21(A)
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	197112	50.0000	(Q)
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.921)	502274	200.000	192.90
	72 trans-1,4-Dichloro-2-butene	53	9.374	9.374	(1.146)	116660	200.000	200.82(AQ)
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	1891712	200.000	197.82
	74 Bromobenzene	156	9.314	9.314	(0.916)	452968	200.000	199.26
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	1332572	200.000	199.04

76	2-Chlorotoluene	91	9.482	9.482 (0.933)	1141231	200.000	199.27
77	4-Chlorotoluene	91	9.572	9.572 (0.941)	1333100	200.000	183.71

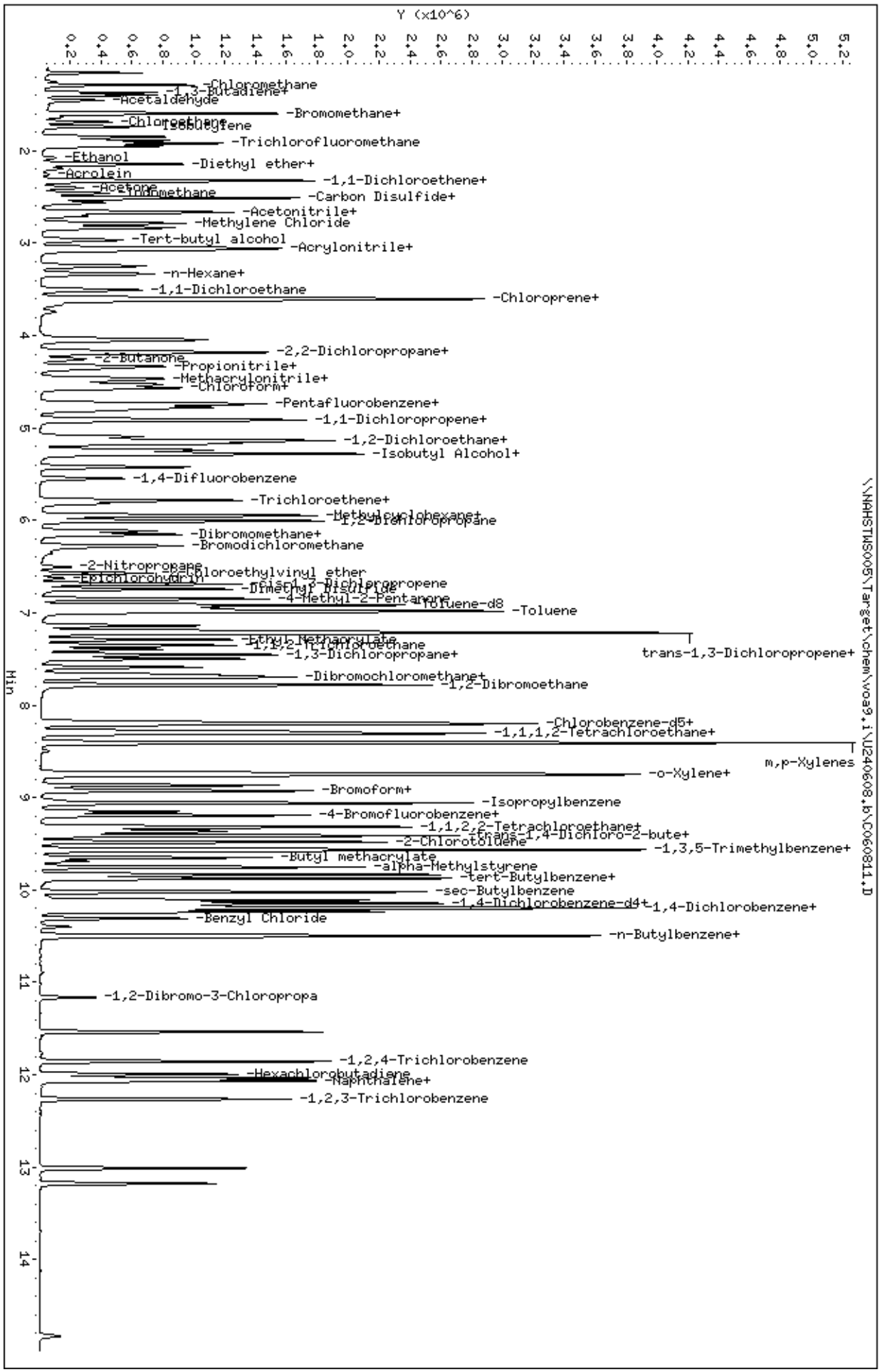
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Report Date: 21-Jun-2024 10:56

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	1143975	200.000	202.12(A)
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	1328730	200.000	197.36
81	sec-Butylbenzene	105	10.022	10.022	(0.986)	1581454	200.000	207.17(A)
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	1380539	200.000	209.68(A)
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	783843	200.000	198.18
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	815577	200.000	199.06
86	Benzyl Chloride	91	10.307	10.307	(1.260)	606331	200.000	198.93
87	n-Butylbenzene	91	10.491	10.491	(1.032)	1215838	200.000	201.96(A)
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	770492	200.000	199.38
89	1,2-Dibromo-3-Chloropropane	155	11.166	11.166	(1.098)	74132	200.000	199.50
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	540077	200.000	190.60
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	234979	200.000	198.54
92	Naphthalene	128	12.065	12.065	(1.187)	1256104	200.000	199.75
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	483444	200.000	199.58
146	Methyl acetate	43	2.705	2.705	(0.562)	305428	200.000	200.02(A)
138	Freon TF	101	2.326	2.326	(0.484)	331637	200.000	207.77(A)
141	Cyclohexane	56	4.778	4.778	(0.993)	528510	200.000	199.75
142	Tetrahydrofuran	42	4.534	4.534	(0.942)	131812	400.000	406.30(A)
147	Methylcyclohexane	55	5.940	5.940	(1.071)	955687	200.000	199.76(A)
135	1,4-Dioxane	88	6.161	6.161	(1.280)	84901	4000.00	4026.14(A)
132	n-Butanol	56	5.820	5.820	(1.210)	237202	4000.00	4003.22(A)
136	n-Hexane	57	3.331	3.331	(0.692)	374815	200.000	206.64(AQ)
139	Diethyl ether	59	2.135	2.135	(0.444)	276118	200.000	201.00(AQ)
148	Tert-butyl alcohol	59	2.963	2.963	(0.616)	648589	4000.00	4026.89(A)
149	Isopropyl alcohol	45	2.559	2.559	(0.532)	503670	4000.00	4038.45(A)
156	Diisopropyl ether	45	3.612	3.612	(0.751)	1221759	200.000	200.72(A)
162	Butyl acrylate	55	8.729	8.729	(1.067)	787919	200.000	199.56(Q)
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	1750037	200.000	199.17
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	1143282	200.000	199.50
167	Ethanol	45	2.079	2.079	(0.432)	93871	4000.00	4353.08(A)
172	tert-Butyl formate	59	5.239	5.239	(1.089)	721105	400.000	480.65(A)
151	4-Methyl-2-pentanol	45	7.218	7.218	(1.301)	2421795	4000.00	4003.17(A)
140	1,3-Butadiene	54	1.396	1.396	(0.290)	207887	200.000	195.38
182	Epichlorohydrin	57	6.626	6.626	(1.195)	100809	800.000	783.40
M 94	1,2-Dichloroethylene (total)	96				775410	400.000	(a)
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	568400	200.000	216.17(A)
130	Ethyl Acetate	43	4.530	4.530	(0.942)	122054	200.000	202.69(AM)
131	Methyl Acrylate	55	4.362	4.362	(0.907)	449781	200.000	202.03(A)
189	n-Butyl acetate	43	7.702	7.702	(0.941)	695120	200.000	199.17
134	Cyclohexanone	55	9.149	9.149	(0.900)	338274	4000.00	3938.82(Q)
185	Isoprene	39	2.146	2.146	(0.446)	92095	200.000	200.04(A)
188	Isopropyl acetate	43	5.280	5.280	(0.952)	1138149	200.000	200.90(A)
150	Allyl alcohol	57	3.331	3.331	(0.692)	374815	4000.00	4132.96(A)
194	Acetaldehyde	44	1.453	1.453	(0.302)	331683	800.000	798.18
202	Isobutylene	41	1.738	1.738	(0.361)	181265	200.000	200.23(AM)
133	Ethyl Acrylate	55	5.940	5.940	(1.234)	955687	200.000	200.52(A)
163	Butyl methacrylate	41	9.647	9.647	(0.949)	375680	200.000	202.55(AQ)
159	Propylene oxide	43	2.191	2.191	(0.455)	62151	400.000	398.38(A)
178	Ethylene oxide	44	1.591	1.591	(0.331)	1079010	400.000	397.61
203	2-Ethylhexyl Acrylate	55	12.035	12.035	(1.184)	544376	200.000	195.32
204	Tetrahydrothiophene	60	7.668	7.668	(0.937)	408981	200.000	199.76(A)
205	sec-Butyl Ether	57	7.214	7.214	(0.882)	859513	200.000	199.87(AM)

187 n-Amyl acetate	43	8.928	8.928 (1.091)	696503	200.000	199.42	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.



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Client ID: VSTD200
Sample Info: VSTD200;VSTD200;1;10
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: TS
Column diameter: 0.18

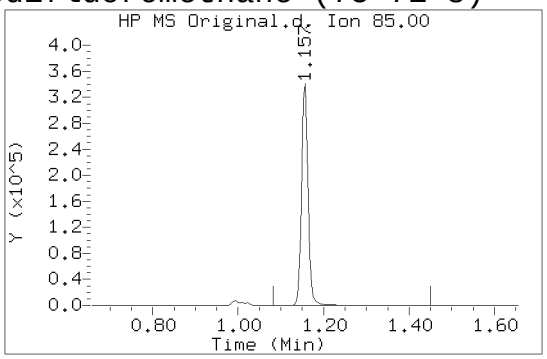
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Inj Date : 08-JUN-2024 19:08
InstruID : VOA9.i
LabSampID : VSTD200

Dichlorodifluoromethane (75-71-8)

Reason Code:

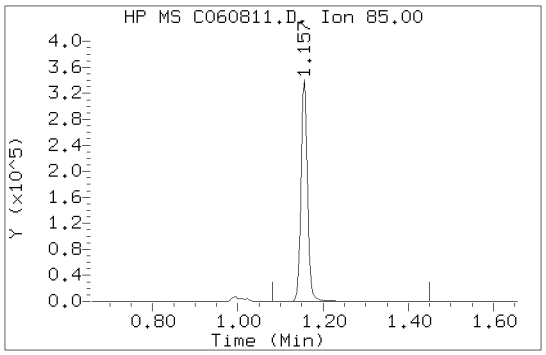
BEFORE

MASS
85
AREA
371413
HEIGHT
340928
21-Jun-2024
10:55
RUCHA
PATEL



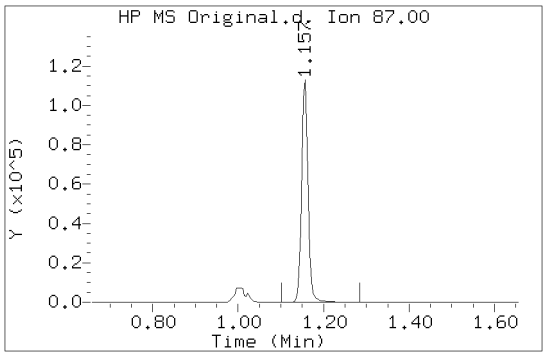
AFTER

MASS
85
AREA
371413
HEIGHT
340928
21-Jun-2024
10:55
RUCHA
PATEL



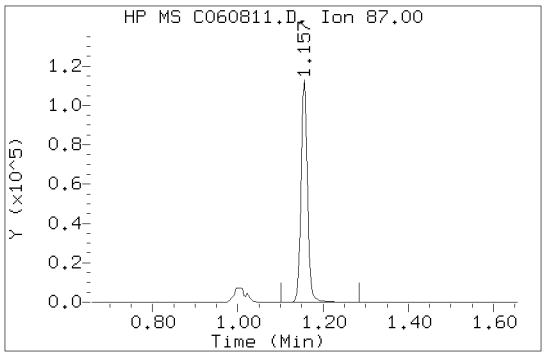
BEFORE

MASS
87
AREA
121295
HEIGHT
112933
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
87
AREA
121295
HEIGHT
112933
21-Jun-2024
10:55
RUCHA
PATEL

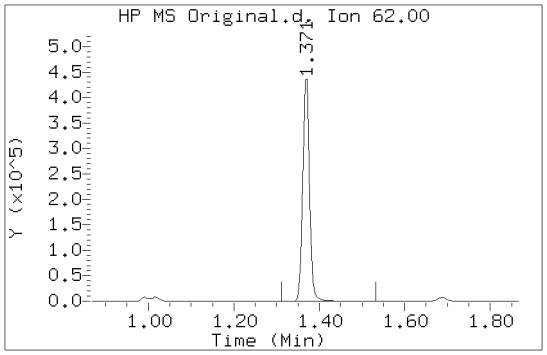


Vinyl Chloride (75-01-4)

Reason Code:

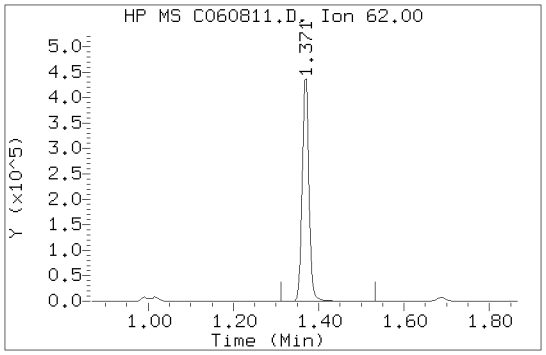
BEFORE

MASS
62
AREA
497446
HEIGHT
436491
21-Jun-2024
10:55
RUCHA
PATEL



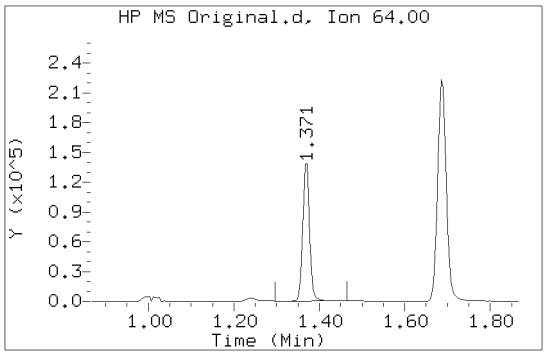
AFTER

MASS
62
AREA
497446
HEIGHT
436491
21-Jun-2024
10:55
RUCHA
PATEL



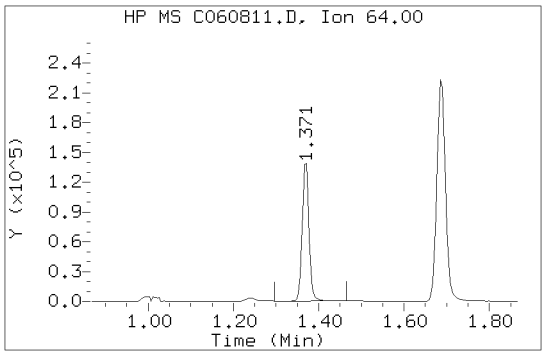
BEFORE

MASS
64
AREA
158125
HEIGHT
138656
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
64
AREA
158125
HEIGHT
138656
21-Jun-2024
10:55
RUCHA
PATEL



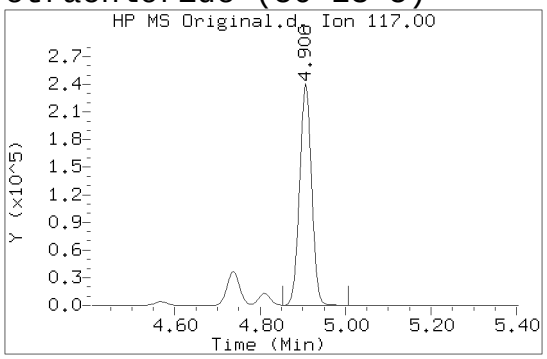
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240608.b\C060811.D
Inj Date : 08-JUN-2024 19:08
InstruID : VOA9.i
LabSampID : VSTD200

Carbon Tetrachloride (56-23-5)

Reason Code:

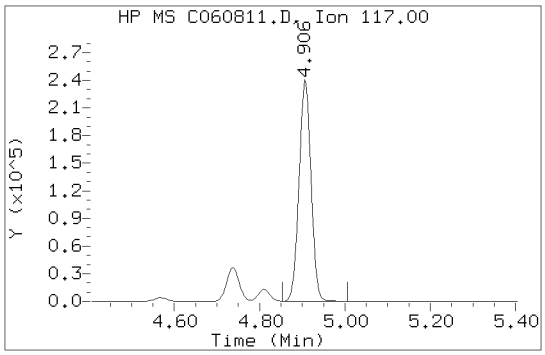
BEFORE

MASS
117
AREA
477614
HEIGHT
240407
21-Jun-2024
10:55
RUCHA
PATEL



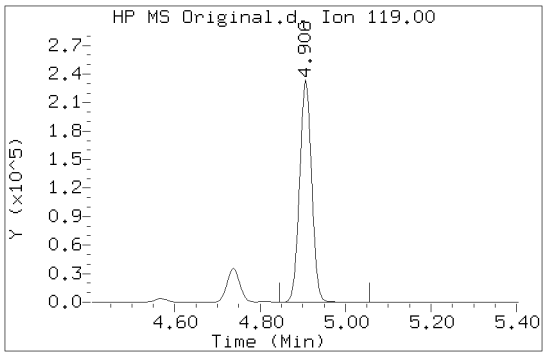
AFTER

MASS
117
AREA
477614
HEIGHT
240407
21-Jun-2024
10:55
RUCHA
PATEL



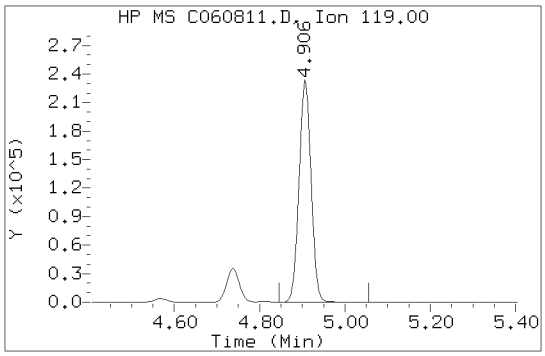
BEFORE

MASS
119
AREA
467051
HEIGHT
233747
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
119
AREA
467051
HEIGHT
233747
21-Jun-2024
10:55
RUCHA
PATEL

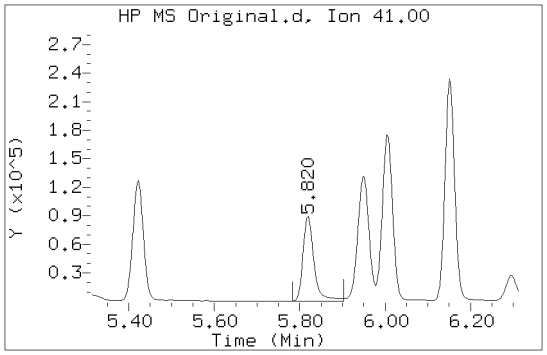


Methyl Methacrylate (80-62-6)

Reason Code:

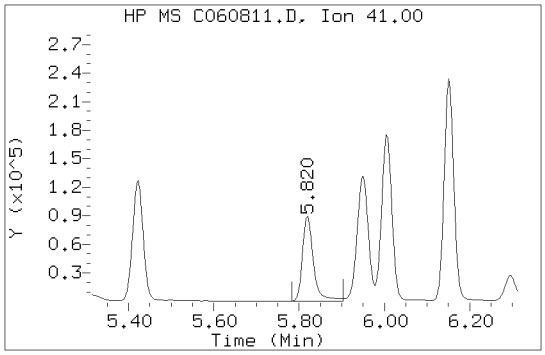
BEFORE

MASS
41
AREA
160768
HEIGHT
89033
21-Jun-2024
10:55
RUCHA
PATEL



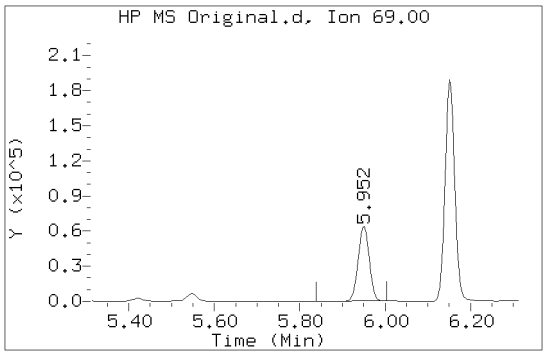
AFTER

MASS
41
AREA
160768
HEIGHT
89033
21-Jun-2024
10:55
RUCHA
PATEL



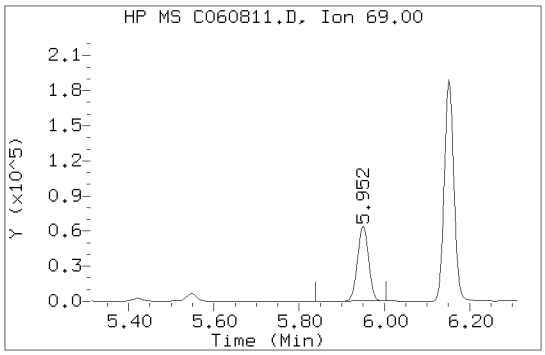
BEFORE

MASS
69
AREA
112678
HEIGHT
63407
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
69
AREA
112678
HEIGHT
63407
21-Jun-2024
10:55
RUCHA
PATEL



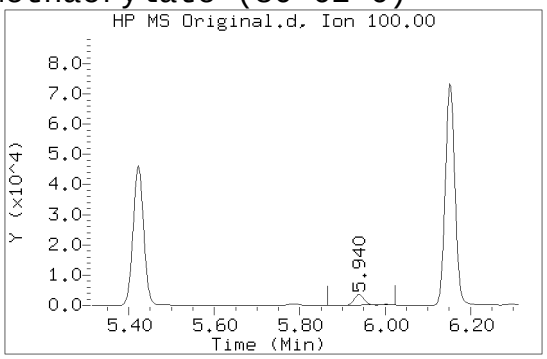
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240608.b\C060811.D
Inj Date : 08-JUN-2024 19:08
InstruID : VOA9.i
LabSampID : VSTD200

Methyl Methacrylate (80-62-6)

Reason Code:

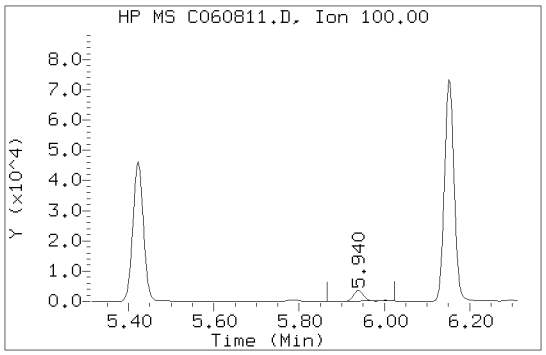
BEFORE

MASS
100
AREA
5795
HEIGHT
3522
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
100
AREA
5795
HEIGHT
3522
21-Jun-2024
10:55
RUCHA
PATEL

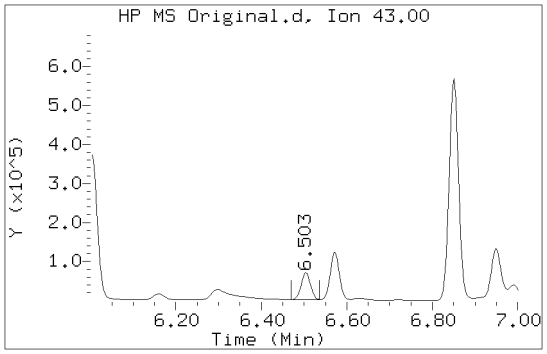


2-Nitropropane (79-46-9)

Reason Code:

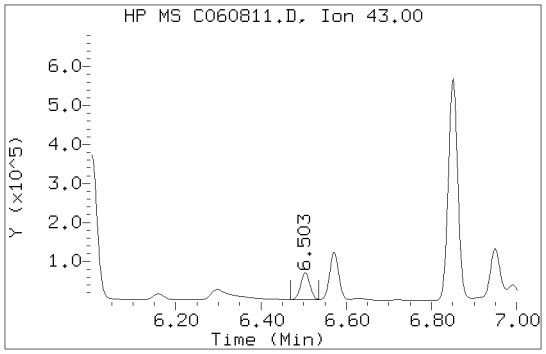
BEFORE

MASS
43
AREA
106540
HEIGHT
69116
21-Jun-2024
10:55
RUCHA
PATEL



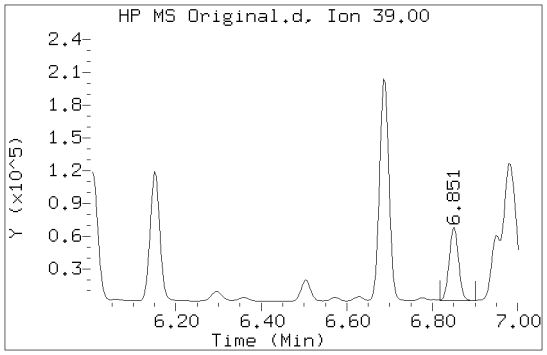
AFTER

MASS
43
AREA
106540
HEIGHT
69116
21-Jun-2024
10:55
RUCHA
PATEL



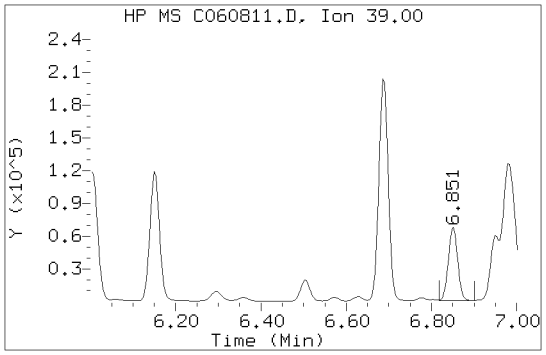
BEFORE

MASS
39
AREA
101493
HEIGHT
66965
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
39
AREA
101493
HEIGHT
66965
21-Jun-2024
10:55
RUCHA
PATEL

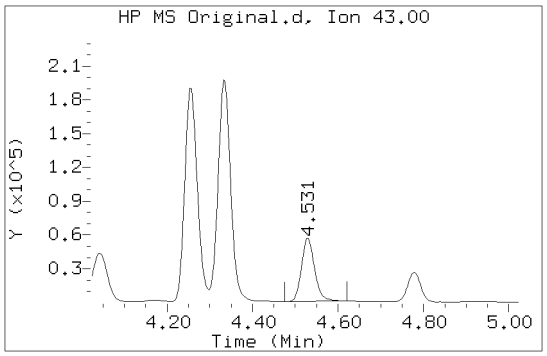


Ethyl Acetate (141-78-6)

Reason Code:

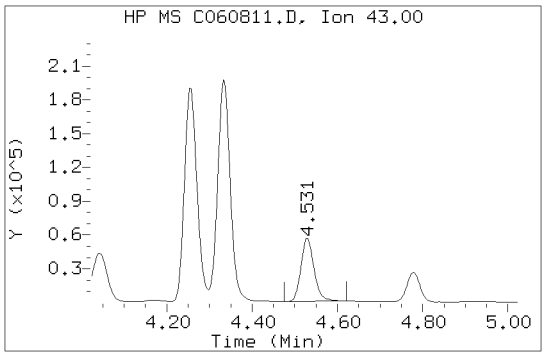
BEFORE

MASS
43
AREA
122054
HEIGHT
56037
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
43
AREA
122054
HEIGHT
56037
21-Jun-2024
10:55
RUCHA
PATEL



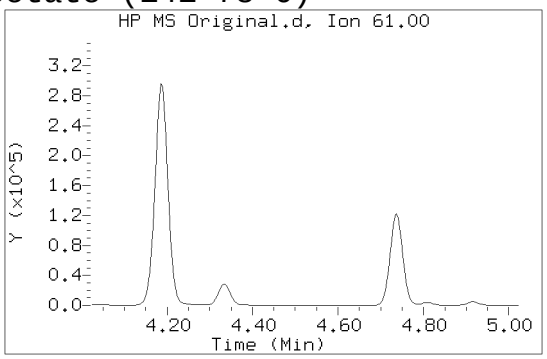
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240608.b\C060811.D
Inj Date : 08-JUN-2024 19:08
InstruID : VOA9.i
LabSampID : VSTD200

Ethyl Acetate (141-78-6)

Reason Code:

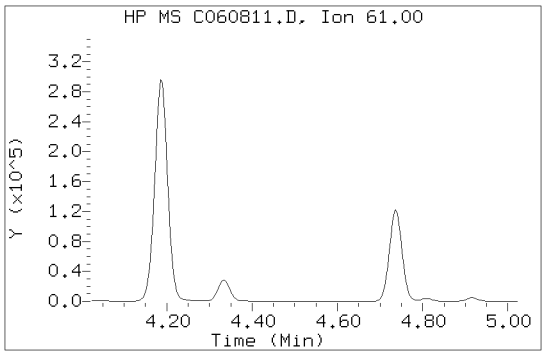
BEFORE

MASS
61
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



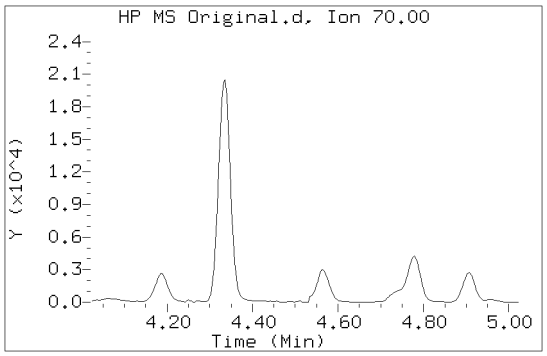
AFTER

MASS
61
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



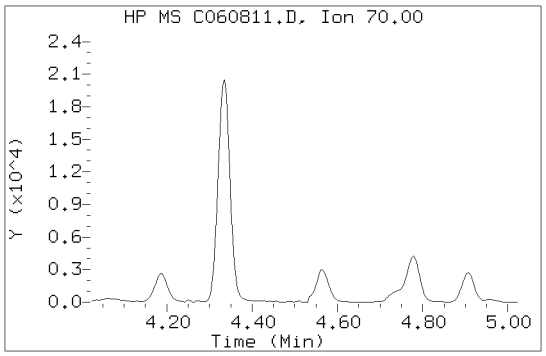
BEFORE

MASS
70
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
70
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL

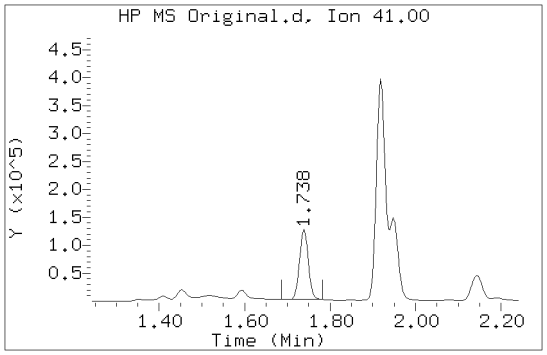


Isobutylene (115-11-7)

Reason Code:

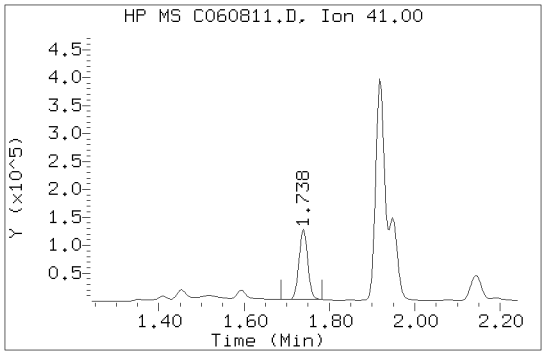
BEFORE

MASS
41
AREA
181265
HEIGHT
125452
21-Jun-2024
10:55
RUCHA
PATEL



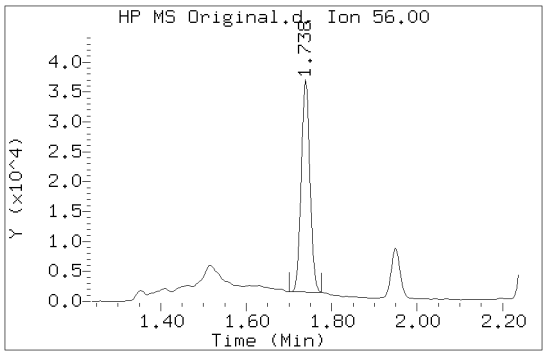
AFTER

MASS
41
AREA
181265
HEIGHT
125452
21-Jun-2024
10:55
RUCHA
PATEL



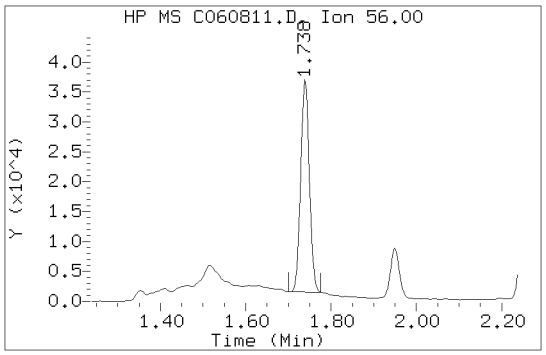
BEFORE

MASS
56
AREA
51276
HEIGHT
35503
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
56
AREA
51276
HEIGHT
35503
21-Jun-2024
10:55
RUCHA
PATEL



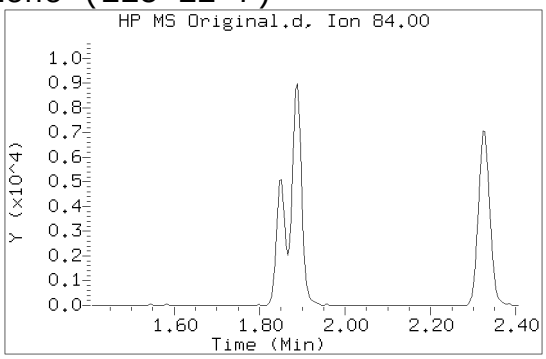
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240608.b\C060811.D
Inj Date : 08-JUN-2024 19:08
InstruID : VOA9.i
LabSampID : VSTD200

Isobutylene (115-11-7)

Reason Code:

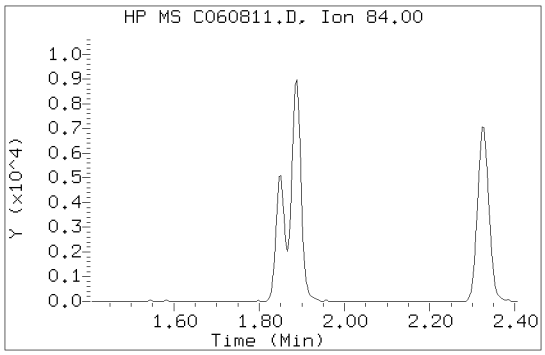
BEFORE

MASS
84
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
84
AREA
0
HEIGHT
0
21-Jun-2024
10:55
RUCHA
PATEL

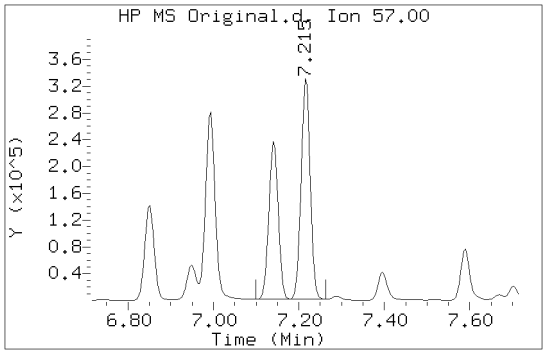


sec-Butyl Ether (6863-58-7)

Reason Code:

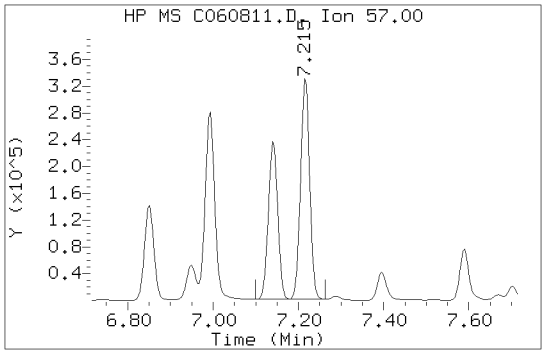
BEFORE

MASS
57
AREA
859513
HEIGHT
329300
21-Jun-2024
10:55
RUCHA
PATEL



AFTER

MASS
57
AREA
859513
HEIGHT
329300
21-Jun-2024
10:55
RUCHA
PATEL



Data File: \\nahstws005\Target\chem\voa9.i\U240608.b\C060813.D Page 1
Report Date: 10-Jun-2024 11:03

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240608.b\C060813.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 08-JUN-2024 19:51
Operator : TS Inst ID: VOA9.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V9;WATER;0;1;
Comment :
Method : \\nahstws005\Target\chem\voa9.i\U240608.b\bfb.m
Meth Date : 27-Jan-2023 08:08 apoluri Quant Type: ISTD
Cal Date : 30-MAR-2018 18:09 Cal File: U033003.d
Als bottle: 13 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAHSTW7026

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	2.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/l)		
RT	EXP RT	REL RT	MASS	RESPONSE			TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
9.190	9.180	(0.000)	95	88760			0.00- 100.00	100.00
9.190	9.180	(0.000)	50	17024			15.00- 40.00	19.18
9.190	9.180	(0.000)	75	44664			30.00- 60.00	50.32
9.190	9.180	(0.000)	96	6567			5.00- 9.00	7.40
9.190	9.180	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
9.190	9.180	(0.000)	174	75992			50.00- 0.00	85.62
9.190	9.180	(0.000)	175	6771			5.00- 9.00	8.91
9.190	9.180	(0.000)	176	74624			95.00- 101.00	98.20
9.190	9.180	(0.000)	177	5144			5.00- 9.00	6.89

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240608.b\C060814.D Page 1
Report Date: 21-Jun-2024 10:56

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240608.b\C060814.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 08-JUN-2024 20:12
Operator : TS Inst ID: VOA9.i
Smp Info : VSTD050;VSTD050;2;;ICV
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240608.b\8260C.m
Meth Date : 21-Jun-2024 10:56 VOA9.i Quant Type: ISTD
Cal Date : 08-JUN-2024 19:08 Cal File: C060811.D
Als bottle: 14 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.811	4.811	(1.000)	281754	50.0000	
2 Dichlorodifluoromethane	85	1.156	1.157	(0.240)	89952	50.2395	50.23
3 Chloromethane	50	1.291	1.288	(0.268)	185008	44.7504	44.75
4 Propionitrile	54	4.328	4.332	(0.900)	140018	518.598	518.59(Q)
5 Vinyl Chloride	62	1.370	1.370	(0.285)	120899	50.7406	50.74
6 Bromomethane	94	1.610	1.599	(0.335)	64096	59.2459	59.24
7 Chloroethane	64	1.693	1.685	(0.352)	79194	50.1414	50.14
8 Trichlorofluoromethane	101	1.887	1.888	(0.392)	139869	50.3758	50.37(Q)
9 Acrolein	56	2.255	2.255	(0.469)	10099	113.917	113.91
10 Acetone	43	2.401	2.401	(0.499)	82399	105.932	105.93
11 1,1-Dichloroethene	96	2.322	2.322	(0.483)	81058	46.4706	46.47
12 Isobutyl Alcohol	43	5.276	5.280	(1.097)	283609	1059.24	1059.23(Q)
13 Acetonitrile	39	2.663	2.663	(0.554)	107598	493.734	493.73
14 Allyl Chloride	41	2.663	2.663	(0.554)	259320	50.7655	50.76
15 Iodomethane	142	2.461	2.457	(0.512)	89162	138.803	138.80(QR)
16 Acrylonitrile	53	3.057	3.057	(0.635)	71861	103.037	103.03
17 Methylene Chloride	84	2.787	2.783	(0.579)	98618	51.3004	51.30
18 Methyl tert-butyl ether	73	3.072	3.072	(0.639)	245101	51.2584	51.25
19 Carbon Disulfide	76	2.514	2.510	(0.522)	496885	96.1905	96.19
20 trans-1,2-Dichloroethene	96	3.050	3.050	(0.634)	88645	50.9425	50.94(Q)

21 Vinyl Acetate	43	4.332	4.332 (0.900)	107488	106.356	106.35
22 1,1-Dichloroethane	63	3.507	3.503 (0.729)	170899	50.8472	50.84(Q)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
23	Chloroprene	53	3.601	3.601	(0.748)	147488	47.5603	47.56
24	2-Butanone	43	4.257	4.253	(0.885)	106071	106.818	106.81
25	Methacrylonitrile	41	4.485	4.485	(0.932)	60112	49.5870	49.58(aQ)
26	2,2-Dichloropropane	77	4.174	4.174	(0.868)	126655	46.1294	46.12
27	cis-1,2-Dichloroethene	96	4.189	4.189	(0.871)	106366	50.7863	50.78
28	Chloroform	83	4.568	4.564	(0.949)	173703	51.2048	51.20
29	Bromochloromethane	128	4.463	4.463	(0.928)	53134	51.7568	51.75
$ 30	Dibromofluoromethane	113	4.740	4.740	(0.985)	94353	51.8681	51.86
31	1,1,1-Trichloroethane	97	4.736	4.737	(0.984)	139102	49.6178	49.61
32	1,1-Dichloropropene	75	4.916	4.916	(0.886)	130306	49.2583	49.25
33	1,2-Dichloroethane	62	5.171	5.171	(0.932)	140280	50.8955	50.89
34	Carbon Tetrachloride	117	4.905	4.905	(0.884)	108231	47.7025	47.70
$ 35	1,2-Dichloroethane-d4	65	5.093	5.093	(1.058)	113257	51.3103	51.31(Q)
* 36	1,4-Difluorobenzene	114	5.546	5.546	(1.000)	412216	50.0000	
37	Benzene	78	5.134	5.134	(0.926)	395979	50.3488	50.34(Q)
38	Trichloroethene	130	5.782	5.782	(1.043)	102732	50.0513	50.05
39	Bromodichloromethane	83	6.273	6.273	(1.131)	119287	47.8987	47.89
40	Methyl Methacrylate	41	5.816	5.820	(1.209)	37639	52.3126	52.31(Q)
41	2-Chloroethylvinyl ether	63	6.573	6.573	(1.185)	49289	100.683	100.68
42	1,2-Dichloropropane	63	6.004	6.004	(1.082)	107652	50.2715	50.27
43	2-Nitropropane	43	6.502	6.502	(1.351)	24748	53.5776	53.57
44	Dibromomethane	93	6.112	6.116	(1.102)	62978	50.7578	50.75
45	4-Methyl-2-Pentanone	43	6.847	6.851	(0.837)	209179	101.683	101.68
46	cis-1,3-Dichloropropene	75	6.686	6.686	(1.205)	155346	50.4804	50.48
* 47	Chlorobenzene-d5	117	8.182	8.182	(1.000)	365435	50.0000	
$ 48	Toluene-d8	98	6.918	6.918	(0.846)	350631	50.6156	50.61(Q)
49	Ethyl Methacrylate	69	7.286	7.289	(1.314)	130611	50.0256	50.02
50	Toluene	91	6.978	6.978	(0.853)	403958	50.1055	50.10
51	trans-1,3-Dichloropropene	75	7.192	7.192	(1.297)	126327	51.6062	51.60
52	2-Hexanone	43	7.211	7.218	(0.881)	134439	102.109	102.10(Q)
53	1,1,2-Trichloroethane	83	7.349	7.353	(0.898)	77584	50.0972	50.09
54	1,3-Dichloropropane	76	7.496	7.496	(0.916)	169085	50.5966	50.59
55	Dibromochloromethane	129	7.687	7.690	(0.940)	93626	52.8524	52.85
56	Tetrachloroethene	164	7.454	7.454	(0.911)	79870	48.4252	48.42
57	1,2-Dibromoethane	107	7.780	7.780	(0.951)	91170	50.0499	50.04
58	1-Chlorohexane	55	8.193	8.193	(1.477)	75937	47.7442	47.74
59	Chlorobenzene	112	8.208	8.208	(1.003)	258328	49.9671	49.96
60	1,1,1,2-Tetrachloroethane	131	8.279	8.283	(1.012)	92063	49.6875	49.68
61	Ethylbenzene	106	8.305	8.305	(1.015)	132900	47.1793	47.17
62	m,p-Xylenes	106	8.406	8.406	(1.027)	339650	97.2262	97.22
63	o-Xylene	106	8.744	8.744	(1.069)	162324	47.5955	47.59
64	Styrene	104	8.759	8.759	(1.071)	270313	49.4805	49.48
66	Bromoform	173	8.916	8.916	(1.090)	57156	49.7159	49.71(Q)
67	Isopropylbenzene	105	9.059	9.059	(1.107)	410248	50.1745	50.17
68	1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	128002	50.9906	50.99
$ 69	4-Bromofluorobenzene	95	9.190	9.190	(1.123)	129360	50.6252	50.62
* 70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	192584	50.0000	
71	1,2,3-Trichloropropane	75	9.359	9.362	(0.920)	131143	51.1314	51.13
72	trans-1,4-Dichloro-2-butene	53	9.374	9.374	(1.146)	28326	51.0338	51.03(Q)
73	n-Propylbenzene	91	9.407	9.411	(0.925)	474151	50.7506	50.75
74	Bromobenzene	156	9.314	9.314	(0.916)	112885	50.3170	50.31
75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	326840	50.3865	50.38

76	2-Chlorotoluene	91	9.479	9.482 (0.932)	285162	50.1150	50.11
77	4-Chlorotoluene	91	9.572	9.572 (0.941)	331568	46.7686	46.76

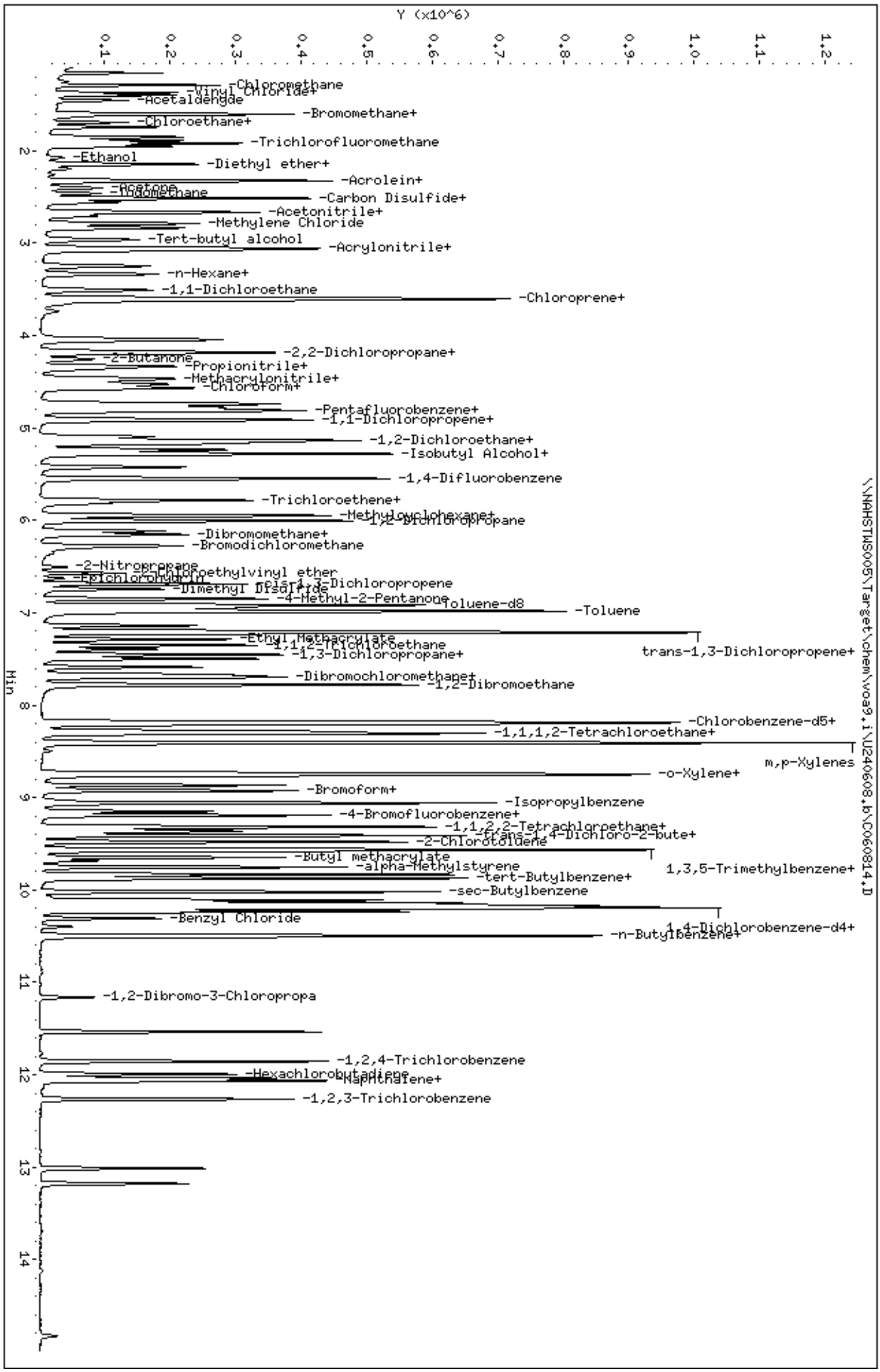
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	283443	51.2590	51.25(Q)
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	322044	48.9592	48.95
81	sec-Butylbenzene	105	10.018	10.022	(0.985)	382482	51.2832	51.28
82	p-Isopropyltoluene	119	10.142	10.146	(0.997)	329042	51.1522	51.15
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	197048	50.5839	50.58
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	205324	49.9988	49.99
86	Benzyl Chloride	91	10.307	10.307	(1.260)	117886	47.6216	47.62
87	n-Butylbenzene	91	10.491	10.491	(1.032)	286093	48.6400	48.64
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	194575	50.2978	50.29
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.166	(1.098)	16304	52.2322	52.23
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	128992	46.5932	46.59
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	54474	48.8027	48.80
92	Naphthalene	128	12.065	12.065	(1.187)	305615	51.5982	51.59
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	117448	50.8950	50.89
146	Methyl acetate	43	2.705	2.705	(0.562)	82233	52.8048	52.80
138	Freon TF	101	2.326	2.326	(0.483)	79904	49.8466	49.84
141	Cyclohexane	56	4.778	4.778	(0.993)	130299	50.3797	50.37
142	Tetrahydrofuran	42	4.534	4.534	(0.942)	36008	99.1741	99.17
147	Methylcyclohexane	55	5.940	5.940	(1.071)	232014	48.8133	48.81
135	1,4-Dioxane	88	6.161	6.161	(1.280)	21653	1041.64	1041.63
132	n-Butanol	56	5.816	5.820	(1.209)	54665	1058.90	1058.89
136	n-Hexane	57	3.334	3.331	(0.693)	89137	48.9339	48.93(Q)
139	Diethyl ether	59	2.139	2.135	(0.445)	71887	51.6037	51.60(Q)
148	Tert-butyl alcohol	59	2.960	2.963	(0.615)	169503	1076.21	1076.21
149	Isopropyl alcohol	45	2.555	2.559	(0.531)	132701	1080.06	1080.05(Q)
156	Diisopropyl ether	45	3.612	3.612	(0.751)	312519	50.6757	50.67(Q)
162	Butyl acrylate	55	8.729	8.729	(1.067)	162324	49.8105	49.81(Q)
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	438692	50.7751	50.77(Q)
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	291908	50.0481	50.04
167	Ethanol	45	2.075	2.079	(0.431)	24141	1028.09	1028.08(Q)
172	tert-Butyl formate	59	5.235	5.239	(1.088)	178359	119.602	119.60
151	4-Methyl-2-pentanol	45	7.211	7.218	(1.300)	552540	1006.55	1006.55
140	1,3-Butadiene	54	1.396	1.396	(0.290)	52216	48.8650	48.86
182	Epichlorohydrin	57	6.626	6.626	(1.195)	22964	213.254	213.25
M 94	1,2-Dichloroethylene (total)	96				195011	100.310	100.30
M 95	Xylenes (total)	106				501974	143.080	143.08
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	128784	50.1299	50.12
130	Ethyl Acetate	43	4.527	4.530	(0.941)	34892	51.8826	51.88(M)
131	Methyl Acrylate	55	4.362	4.362	(0.907)	114092	50.9720	50.97
189	n-Butyl acetate	43	7.702	7.702	(0.941)	156470	50.6111	50.61
134	Cyclohexanone	55	9.149	9.149	(0.900)	98577	1015.27	1015.27(Q)
185	Isoprene	39	2.150	2.146	(0.447)	22047	47.9408	47.94
188	Isopropyl acetate	43	5.276	5.280	(0.951)	281731	51.6466	51.64
150	Allyl alcohol	57	3.334	3.331	(0.693)	89137	978.677	978.67
194	Acetaldehyde	44	1.453	1.453	(0.302)	122391	236.617	236.61(Q)
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	76006	55.6759	55.67
202	Isobutylene	41	1.741	1.738	(0.362)	45609	48.1547	48.15(M)
133	Ethyl Acrylate	55	5.940	5.940	(1.234)	232014	49.9887	49.98
163	Butyl methacrylate	41	9.644	9.647	(0.948)	95517	55.5556	55.55(Q)
159	Propylene oxide	43	2.191	2.191	(0.455)	16513	103.185	103.18
178	Ethylene oxide	44	1.599	1.591	(0.332)	347051	107.676	107.67
203	2-Ethylhexyl Acrylate	55	12.039	12.035	(1.184)	113526	49.7237	49.72

204 Tetrahydrothiophene	60	7.668	7.668 (0.937)	106266	51.0044	51.00(A)
205 sec-Butyl Ether	57	7.214	7.214 (0.882)	197045	50.5567	50.55(AM)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
187 n-Amyl acetate	43	8.928	8.928	(1.091)	153625	50.6546	50.65

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.



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Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

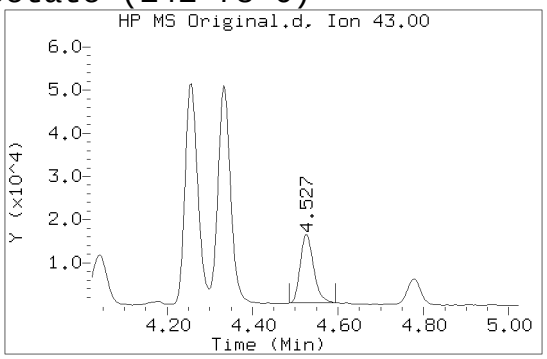
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Ethyl Acetate (141-78-6)

Reason Code:

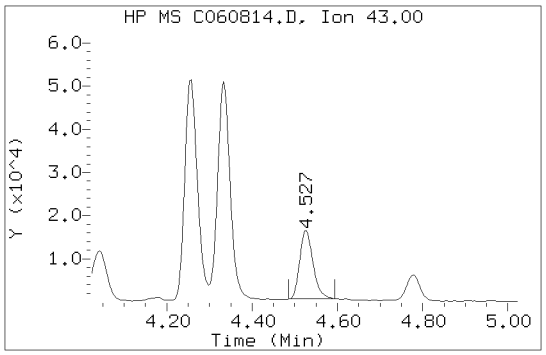
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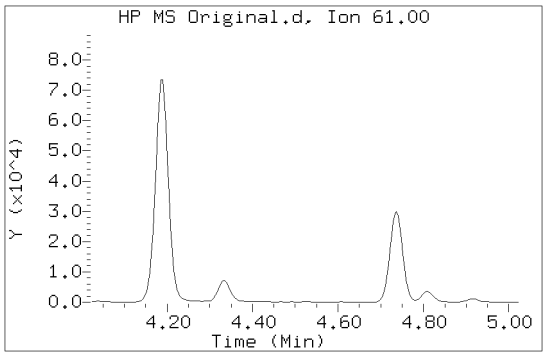
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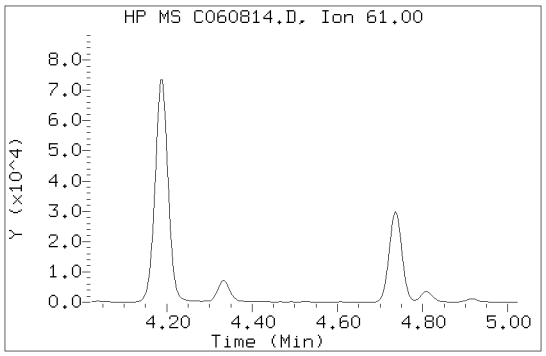
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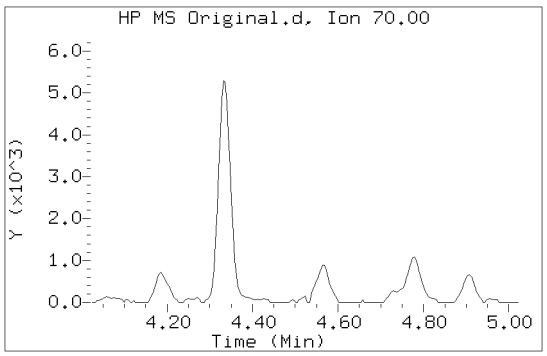
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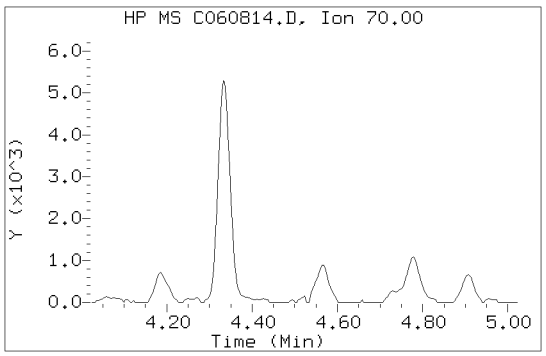
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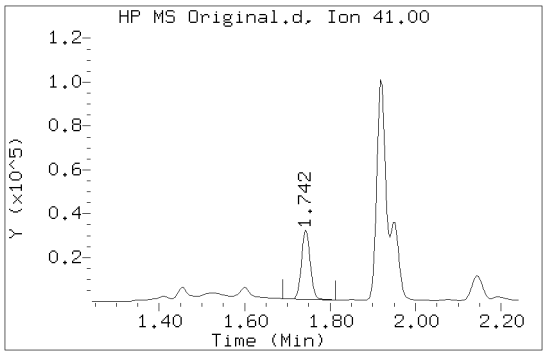


Isobutylene (115-11-7)

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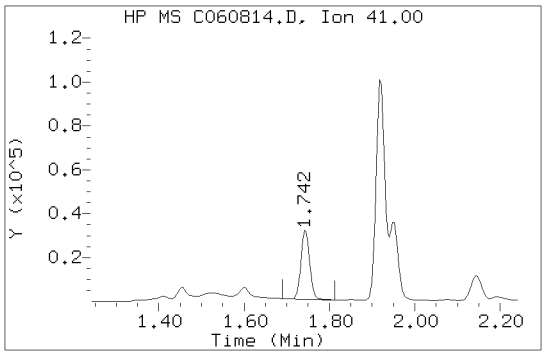
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AFTER

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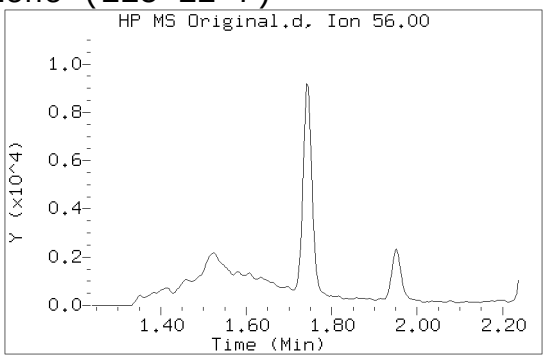
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LabSampID : VSTD050

Isobutylene (115-11-7)

Reason Code:

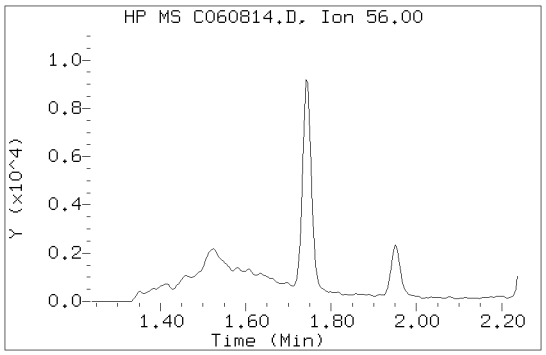
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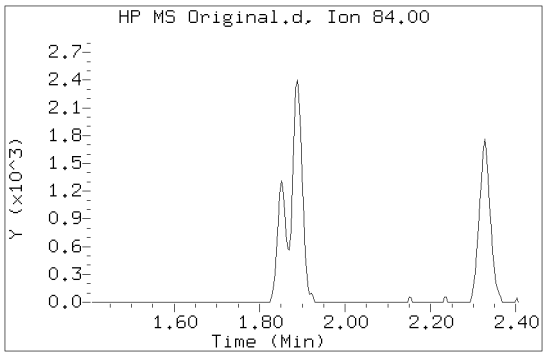
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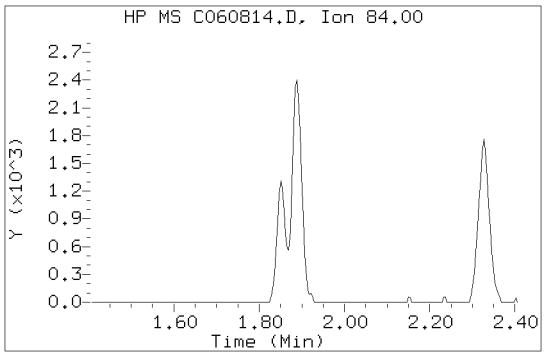
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AFTER

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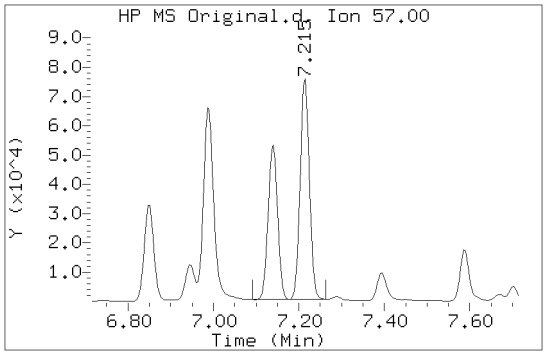


sec-Butyl Ether (6863-58-7)

Reason Code:

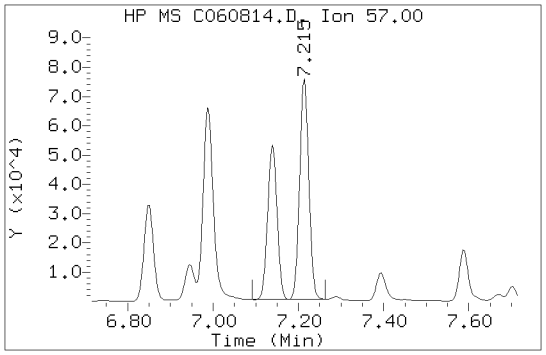
BEFORE

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21-Jun-2024
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AFTER

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197045
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right solutions.
right partner.

RawData

<textMethods>

Workorder

HS24051959

Client

Bhate Environmental Associates, Inc.

Project

LHAAP-58

07/03/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Data File: \\nahstws005\Target\chem\voa9.i\U240608.b\V060801.D Page 1
Report Date: 10-Jun-2024 12:59

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240608.b\V060801.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 09-JUN-2024 07:06
Operator : TS Inst ID: VOA9.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240608.b\bfb.m
Meth Date : 27-Jan-2023 08:08 apoluri Quant Type: ISTD
Cal Date : 30-MAR-2018 18:09 Cal File: U033003.d
Als bottle: 41 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAHSTW7026

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	2.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/l)		
RT	EXP RT	REL RT	MASS	RESPONSE			TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
9.190	9.180	(0.000)	95	74408			0.00- 100.00	100.00
9.190	9.180	(0.000)	50	13989			15.00- 40.00	18.80
9.190	9.180	(0.000)	75	37512			30.00- 60.00	50.41
9.190	9.180	(0.000)	96	5299			5.00- 9.00	7.12
9.190	9.180	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
9.190	9.180	(0.000)	174	60944			50.00- 0.00	81.91
9.190	9.180	(0.000)	175	5248			5.00- 9.00	8.61
9.190	9.180	(0.000)	176	59784			95.00- 101.00	98.10
9.190	9.180	(0.000)	177	4368			5.00- 9.00	7.31

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240608.b\V060802.D Page 1
Report Date: 22-Jun-2024 12:44

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240608.b\V060802.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 09-JUN-2024 07:28
Operator : TS Inst ID: VOA9.i
Smp Info : VSTD050;VSTD050;2;;CCV
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240608.b\8260C.m
Meth Date : 22-Jun-2024 12:44 VOA9.i Quant Type: ISTD
Cal Date : 08-JUN-2024 19:08 Cal File: C060811.D
Als bottle: 42 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.815	4.815	(1.000)	302688	50.0000	
2 Dichlorodifluoromethane	85	1.168	1.168	(0.243)	81602	50.0000	42.45
3 Chloromethane	50	1.299	1.299	(0.270)	189073	50.0000	42.41
4 Propionitrile	54	4.339	4.339	(0.901)	144179	500.000	496.74
5 Vinyl Chloride	62	1.381	1.381	(0.287)	112354	50.0000	43.90
6 Bromomethane	94	1.610	1.610	(0.334)	52975	50.0000	45.58
7 Chloroethane	64	1.700	1.700	(0.353)	74228	50.0000	43.67
8 Trichlorofluoromethane	101	1.895	1.895	(0.394)	129381	50.0000	43.37(Q)
9 Acrolein	56	2.266	2.266	(0.471)	9953	100.000	104.44
10 Acetone	43	2.412	2.412	(0.501)	73759	100.000	86.31
11 1,1-Dichloroethene	96	2.334	2.334	(0.485)	77060	50.0000	41.12
12 Isobutyl Alcohol	43	5.284	5.284	(1.097)	273810	1000.00	952.48
13 Acetonitrile	39	2.675	2.675	(0.556)	104073	500.000	443.87
14 Allyl Chloride	41	2.675	2.675	(0.556)	251222	50.0000	45.70
15 Iodomethane	142	2.469	2.469	(0.513)	51653	100.000	81.80(QM)
16 Acrylonitrile	53	3.068	3.068	(0.637)	74213	100.000	98.96
17 Methylene Chloride	84	2.795	2.795	(0.580)	94478	50.0000	45.61
18 Methyl tert-butyl ether	73	3.083	3.083	(0.640)	246463	50.0000	47.92
19 Carbon Disulfide	76	2.521	2.521	(0.524)	433660	100.000	78.14
20 trans-1,2-Dichloroethene	96	3.061	3.061	(0.636)	82733	50.0000	44.21(Q)

21 Vinyl Acetate	43	4.343	4.343 (0.902)	101284	100.000	93.22
22 1,1-Dichloroethane	63	3.514	3.514 (0.730)	159778	50.0000	44.16

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240608.b\V060802.D Page 2
Report Date: 22-Jun-2024 12:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
23	Chloroprene	53	3.608	3.608	(0.749)	135654	50.0000	40.71
24	2-Butanone	43	4.264	4.264	(0.886)	102072	100.000	95.40
25	Methacrylonitrile	41	4.493	4.493	(0.933)	63330	50.0000	48.63(a)
26	2,2-Dichloropropane	77	4.182	4.182	(0.868)	90565	50.0000	30.70
27	cis-1,2-Dichloroethene	96	4.197	4.197	(0.872)	100722	50.0000	44.72
28	Chloroform	83	4.572	4.572	(0.949)	163145	50.0000	44.70
29	Bromochloromethane	128	4.470	4.470	(0.928)	50636	50.0000	45.84
$ 30	Dibromofluoromethane	113	4.748	4.748	(0.986)	109049	50.0000	55.84
31	1,1,1-Trichloroethane	97	4.744	4.744	(0.985)	128052	50.0000	42.51
32	1,1-Dichloropropene	75	4.920	4.920	(0.887)	121283	50.0000	43.35
33	1,2-Dichloroethane	62	5.175	5.175	(0.932)	130874	50.0000	44.76
34	Carbon Tetrachloride	117	4.913	4.913	(0.885)	97230	50.0000	40.49
$ 35	1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	128973	50.0000	54.46
* 36	1,4-Difluorobenzene	114	5.550	5.550	(1.000)	436281	50.0000	
37	Benzene	78	5.138	5.138	(0.926)	370907	50.0000	44.52
38	Trichloroethene	130	5.786	5.786	(1.043)	95728	50.0000	44.06
39	Bromodichloromethane	83	6.277	6.277	(1.131)	108385	50.0000	41.12
40	Methyl Methacrylate	41	5.824	5.824	(1.209)	41462	50.0000	53.61
41	2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	48484	100.000	94.26
42	1,2-Dichloropropane	63	6.007	6.007	(1.082)	99975	50.0000	44.08
43	2-Nitropropane	43	6.506	6.506	(1.351)	23876	50.0000	48.37(Q)
44	Dibromomethane	93	6.116	6.116	(1.102)	58607	50.0000	44.59
45	4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	203751	100.000	93.19
46	cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	139371	50.0000	42.79
* 47	Chlorobenzene-d5	117	8.182	8.182	(1.000)	388819	50.0000	
$ 48	Toluene-d8	98	6.918	6.918	(0.846)	425724	50.0000	57.90
49	Ethyl Methacrylate	69	7.289	7.289	(1.313)	133684	50.0000	48.42
50	Toluene	91	6.978	6.978	(0.853)	382668	50.0000	44.54
51	trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	113594	50.0000	43.84
52	2-Hexanone	43	7.214	7.214	(0.882)	144430	100.000	103.12(Q)
53	1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	73679	50.0000	44.61
54	1,3-Dichloropropane	76	7.496	7.496	(0.916)	159747	50.0000	44.85
55	Dibromochloromethane	129	7.690	7.690	(0.940)	86933	50.0000	46.12
56	Tetrachloroethene	164	7.454	7.454	(0.911)	74574	50.0000	42.49(M)
57	1,2-Dibromoethane	107	7.784	7.784	(0.951)	88935	50.0000	45.89
58	1-Chlorohexane	55	8.193	8.193	(1.476)	69409	50.0000	41.11
59	Chlorobenzene	112	8.208	8.208	(1.003)	244752	50.0000	44.41
60	1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	84288	50.0000	42.85
61	Ethylbenzene	106	8.305	8.305	(1.015)	122748	50.0000	40.95
62	m,p-Xylenes	106	8.406	8.406	(1.027)	315719	100.000	84.94
63	o-Xylene	106	8.744	8.744	(1.069)	154977	50.0000	42.70
64	Styrene	104	8.759	8.759	(1.071)	255465	50.0000	43.95
66	Bromoform	173	8.916	8.916	(1.090)	53802	50.0000	44.27
67	Isopropylbenzene	105	9.059	9.059	(1.107)	380203	50.0000	43.70
68	1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	125167	50.0000	46.11
$ 69	4-Bromofluorobenzene	95	9.190	9.190	(1.123)	149089	50.0000	54.95(M)
* 70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	207997	50.0000	
71	1,2,3-Trichloropropane	75	9.359	9.359	(0.920)	122900	50.0000	44.29
72	trans-1,4-Dichloro-2-butene	53	9.374	9.374	(1.146)	24598	50.0000	41.63(QM)
73	n-Propylbenzene	91	9.411	9.411	(0.926)	435894	50.0000	43.19
74	Bromobenzene	156	9.314	9.314	(0.916)	108337	50.0000	44.67
75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	306972	50.0000	43.88

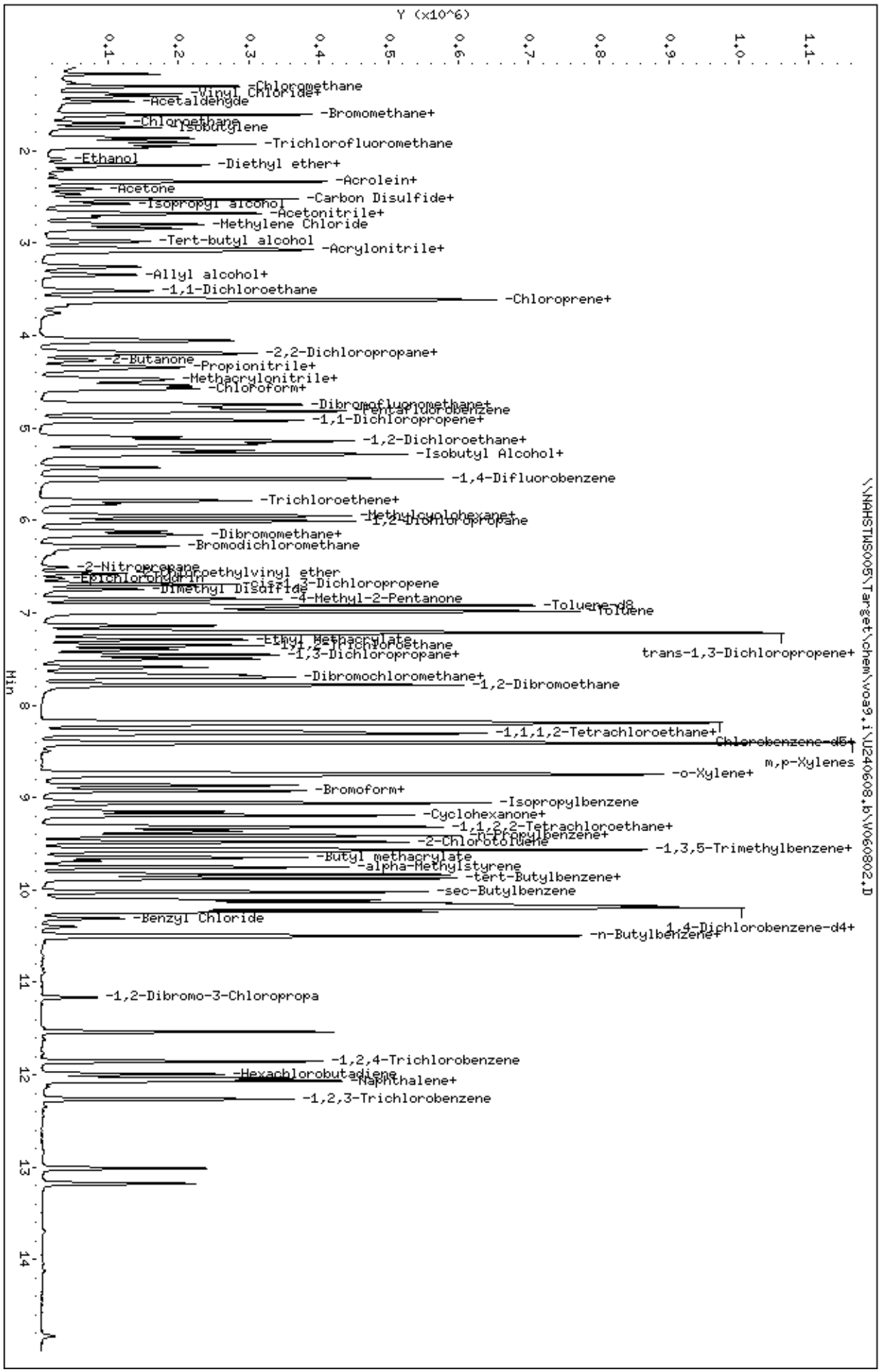
76	2-Chlorotoluene	91	9.479	9.479 (0.932)	288929	50.0000	46.99(M)
77	4-Chlorotoluene	91	9.572	9.572 (0.941)	310240	50.0000	40.51

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	266190	50.0000	44.57
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	303890	50.0000	42.77
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	350922	50.0000	43.56
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	298767	50.0000	43.00
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	185080	50.0000	43.91
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	190707	50.0000	42.90
86	Benzyl Chloride	91	10.307	10.307	(1.260)	77641	50.0000	29.74
87	n-Butylbenzene	91	10.491	10.491	(1.032)	252672	50.0000	39.77
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	183951	50.0000	43.94
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	15914	50.0000	47.41
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	119392	50.0000	39.92
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	48254	50.0000	40.13(M)
92	Naphthalene	128	12.065	12.065	(1.187)	298487	50.0000	46.72
93	1,2,3-Trichlorobenzene	180	12.264	12.264	(1.206)	110623	50.0000	44.41
146	Methyl acetate	43	2.716	2.716	(0.564)	78951	50.0000	47.07
138	Freon TF	101	2.337	2.337	(0.485)	71509	50.0000	41.52
141	Cyclohexane	56	4.781	4.781	(0.993)	121265	50.0000	43.44
142	Tetrahydrofuran	42	4.545	4.545	(0.944)	35156	100.000	89.60
147	Methylcyclohexane	55	5.944	5.944	(1.071)	229967	50.0000	45.74
135	1,4-Dioxane	88	6.165	6.165	(1.280)	24479	1000.00	1097.44
132	n-Butanol	56	5.824	5.824	(1.209)	59213	1000.00	1067.35
136	n-Hexane	57	3.342	3.342	(0.694)	67960	50.0000	34.72(QM)
139	Diethyl ether	59	2.150	2.150	(0.447)	68877	50.0000	45.93(Q)
148	Tert-butyl alcohol	59	2.978	2.978	(0.619)	181713	1000.00	1073.91
149	Isopropyl alcohol	45	2.574	2.574	(0.534)	140409	1000.00	1063.53
156	Diisopropyl ether	45	3.623	3.623	(0.752)	306921	50.0000	46.28
162	Butyl acrylate	55	8.729	8.729	(1.067)	168130	50.0000	48.53(Q)
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	447820	50.0000	47.96
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	292981	50.0000	46.48
167	Ethanol	45	2.090	2.090	(0.434)	26611	1000.00	1055.94
172	tert-Butyl formate	59	5.243	5.243	(1.089)	184653	100.000	115.20
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	587134	1000.00	1010.45
140	1,3-Butadiene	54	1.408	1.408	(0.292)	47531	50.0000	41.40
182	Epichlorohydrin	57	6.630	6.630	(1.195)	21283	200.000	187.89
M 94	1,2-Dichloroethylene (total)	96				183455	100.000	(a)
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	120904	50.0000	43.57
130	Ethyl Acetate	43	4.538	4.538	(0.942)	34988	50.0000	48.17(M)
131	Methyl Acrylate	55	4.369	4.369	(0.907)	115877	50.0000	48.18
189	n-Butyl acetate	43	7.702	7.702	(0.941)	150464	50.0000	45.85
134	Cyclohexanone	55	9.149	9.149	(0.900)	99240	1000.00	942.59(Q)
185	Isoprene	39	2.157	2.157	(0.448)	20292	50.0000	41.06
188	Isopropyl acetate	43	5.284	5.284	(0.952)	274834	50.0000	47.61
150	Allyl alcohol	57	3.342	3.342	(0.694)	66643	1000.00	681.10
194	Acetaldehyde	44	1.464	1.464	(0.304)	75828	200.000	127.31(M)
200	Dimethyl Disulfide	94	6.746	6.746	(0.825)	57984	50.0000	42.30
202	Isobutylene	41	1.749	1.749	(0.363)	42235	50.0000	41.49(M)
133	Ethyl Acrylate	55	5.944	5.944	(1.234)	229967	50.0000	46.16
163	Butyl methacrylate	41	9.647	9.647	(0.949)	95593	50.0000	51.40(Q)
159	Propylene oxide	43	2.206	2.206	(0.458)	17155	100.000	99.68
178	Ethylene oxide	44	1.606	1.606	(0.334)	302804	100.000	86.53
203	2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	111366	50.0000	45.39
204	Tetrahydrothiophene	60	7.668	7.668	(0.937)	109076	50.0000	49.18(AM)

205 sec-Butyl Ether	57	7.214	7.214 (0.882)	209032	50.0000	50.41(AM)
187 n-Amyl acetate	43	8.928	8.928 (1.091)	150623	50.0000	46.74

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240608.b\V060802.D
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Sample Info: VSTD050;VSTD050;2;;CCV
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

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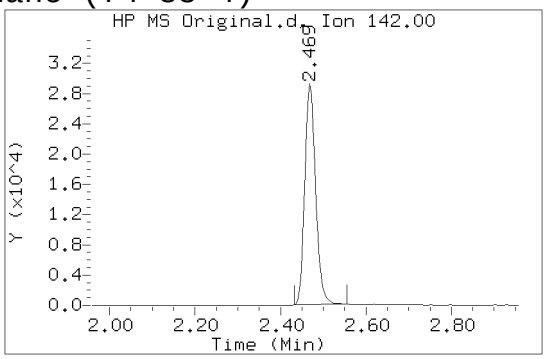
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Inj Date : 09-JUN-2024 07:28
InstruID : VOA9.i
LabSampID : VSTD050

Iodomethane (74-88-4)

Reason Code:

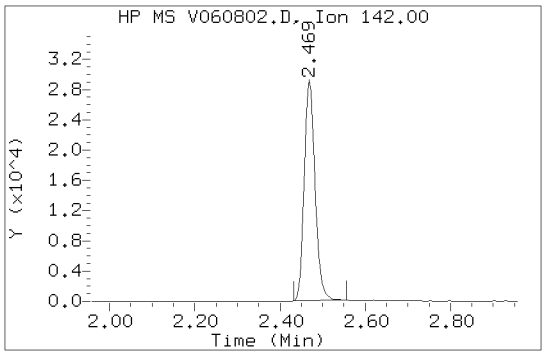
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22-Jun-2024
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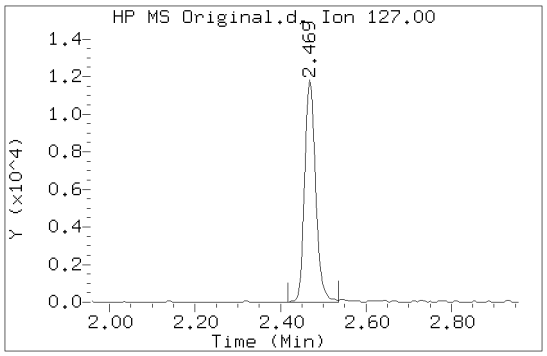
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22-Jun-2024
12:44
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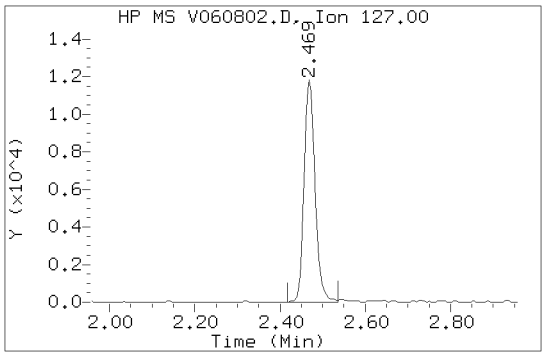
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22-Jun-2024
12:44
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PATEL



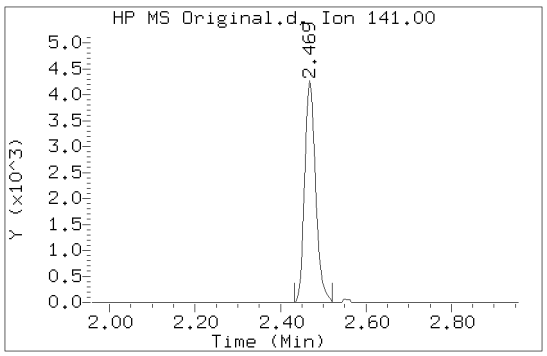
AFTER

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HEIGHT
11826
22-Jun-2024
12:44
RUCHA
PATEL



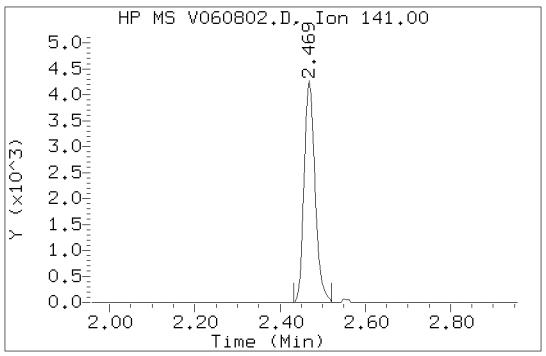
BEFORE

MASS
141
AREA
7646
HEIGHT
4271
22-Jun-2024
12:44
RUCHA
PATEL



AFTER

MASS
141
AREA
7646
HEIGHT
4271
22-Jun-2024
12:44
RUCHA
PATEL

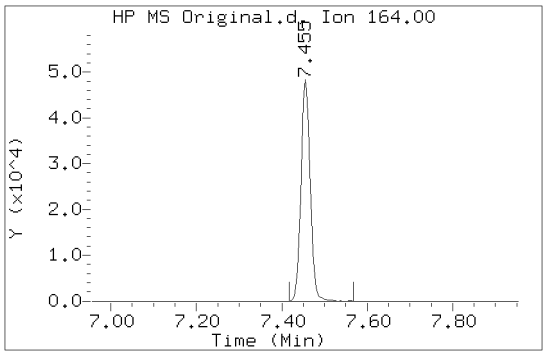


Tetrachloroethene (127-18-4)

Reason Code:

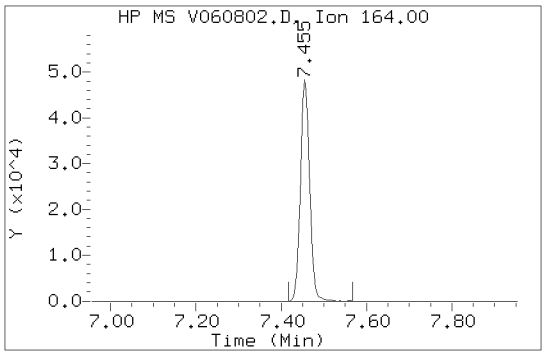
BEFORE

MASS
164
AREA
74574
HEIGHT
48396
22-Jun-2024
12:44
RUCHA
PATEL



AFTER

MASS
164
AREA
74574
HEIGHT
48396
22-Jun-2024
12:44
RUCHA
PATEL



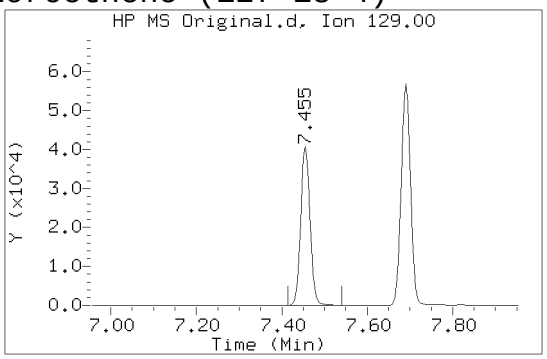
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240608.b\V060802.D
Inj Date : 09-JUN-2024 07:28
InstruID : VOA9.i
LabSampID : VSTD050

Tetrachloroethene (127-18-4)

Reason Code:

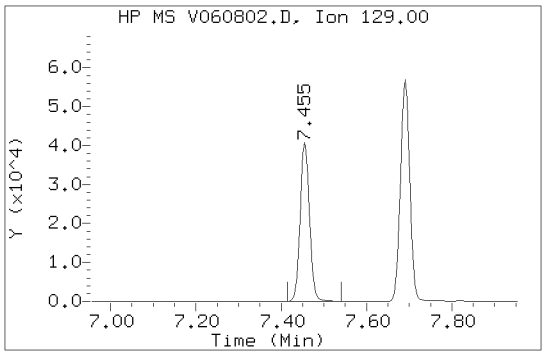
BEFORE

MASS
129
AREA
63336
HEIGHT
40768
22-Jun-2024
12:44
RUCHA
PATEL



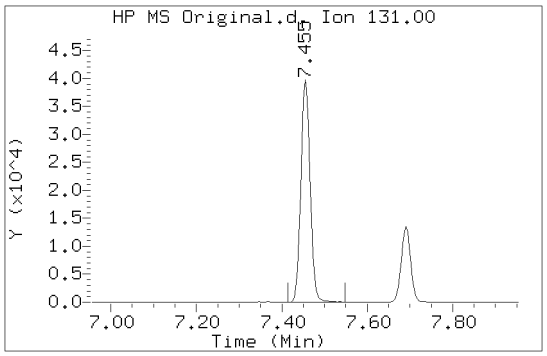
AFTER

MASS
129
AREA
63336
HEIGHT
40768
22-Jun-2024
12:44
RUCHA
PATEL



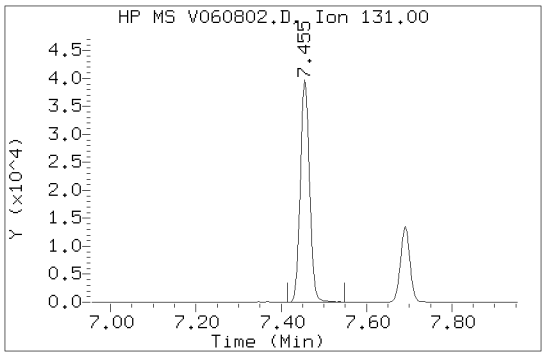
BEFORE

MASS
131
AREA
61052
HEIGHT
39736
22-Jun-2024
12:44
RUCHA
PATEL



AFTER

MASS
131
AREA
61052
HEIGHT
39736
22-Jun-2024
12:44
RUCHA
PATEL

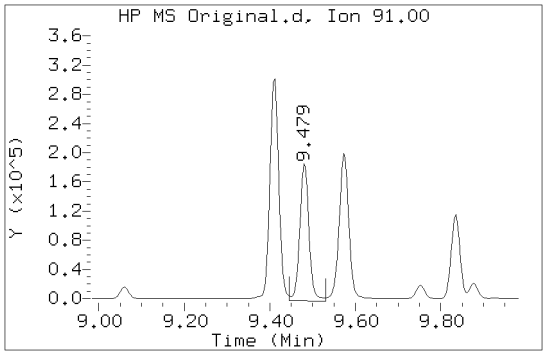


2-Chlorotoluene (95-49-8)

Reason Code:

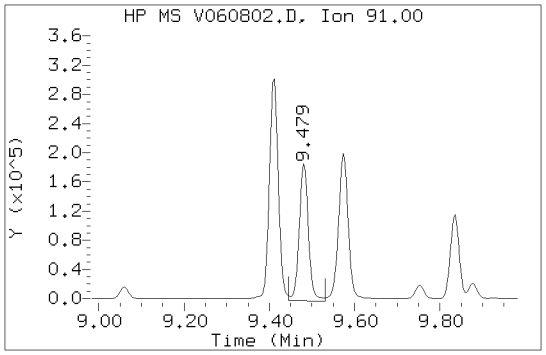
BEFORE

MASS
91
AREA
288929
HEIGHT
188231
22-Jun-2024
12:44
RUCHA
PATEL



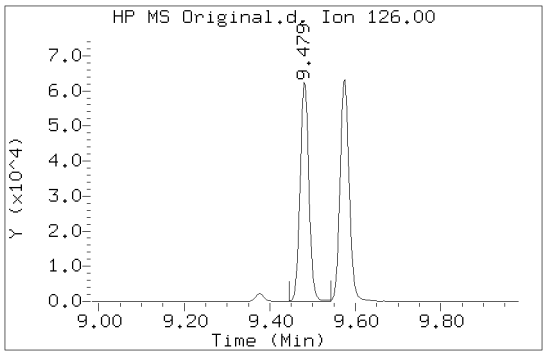
AFTER

MASS
91
AREA
288929
HEIGHT
188231
22-Jun-2024
12:44
RUCHA
PATEL



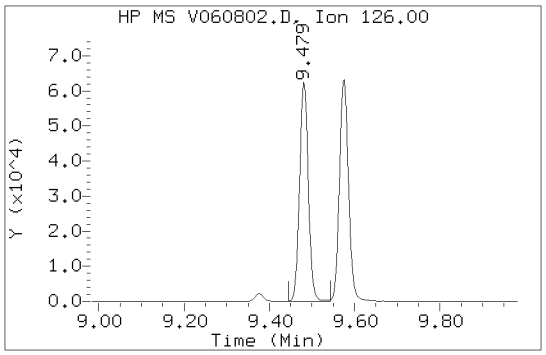
BEFORE

MASS
126
AREA
90822
HEIGHT
62372
22-Jun-2024
12:44
RUCHA
PATEL



AFTER

MASS
126
AREA
90822
HEIGHT
62372
22-Jun-2024
12:44
RUCHA
PATEL



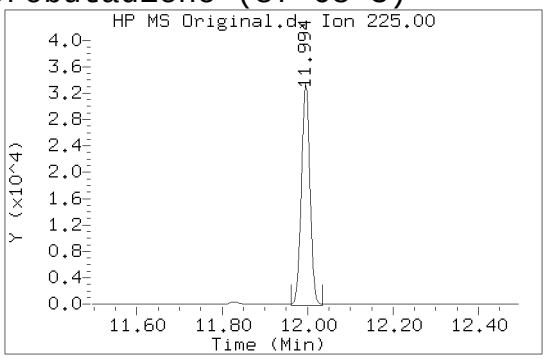
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240608.b\V060802.D
Inj Date : 09-JUN-2024 07:28
InstruID : VOA9.i
LabSampID : VSTD050

Hexachlorobutadiene (87-68-3)

Reason Code:

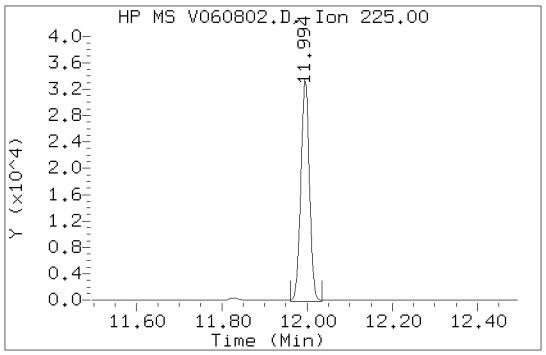
BEFORE

MASS
225
AREA
48254
HEIGHT
33614
22-Jun-2024
12:44
RUCHA
PATEL



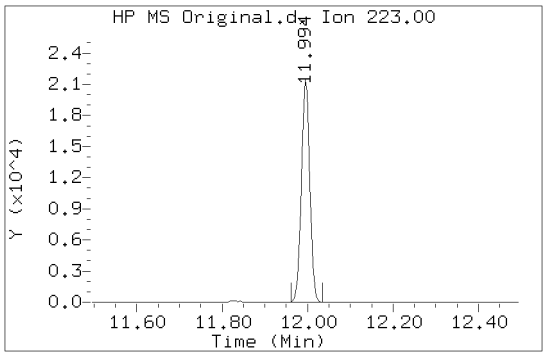
AFTER

MASS
225
AREA
48254
HEIGHT
33614
22-Jun-2024
12:44
RUCHA
PATEL



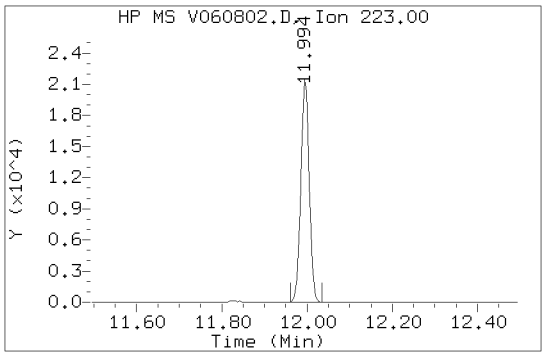
BEFORE

MASS
223
AREA
29980
HEIGHT
21424
22-Jun-2024
12:44
RUCHA
PATEL



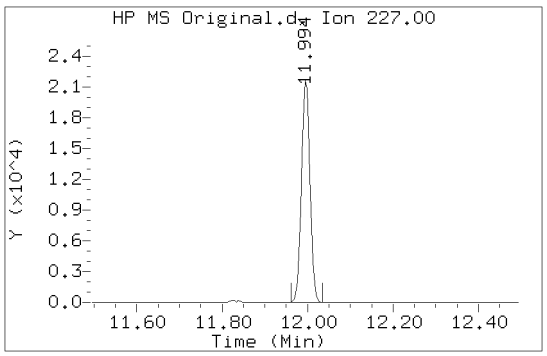
AFTER

MASS
223
AREA
29980
HEIGHT
21424
22-Jun-2024
12:44
RUCHA
PATEL



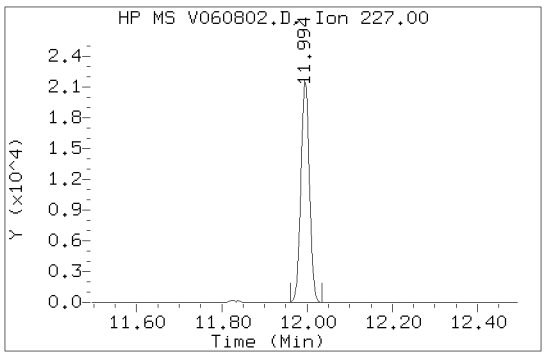
BEFORE

MASS
227
AREA
30780
HEIGHT
21592
22-Jun-2024
12:44
RUCHA
PATEL



AFTER

MASS
227
AREA
30780
HEIGHT
21592
22-Jun-2024
12:44
RUCHA
PATEL

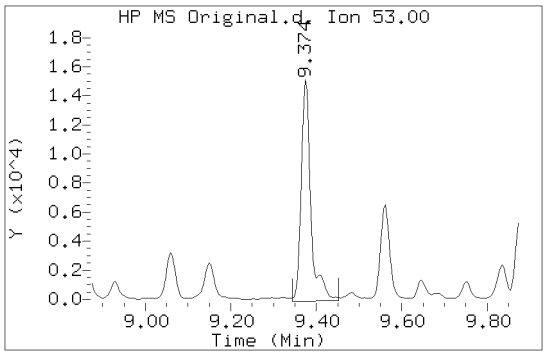


trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

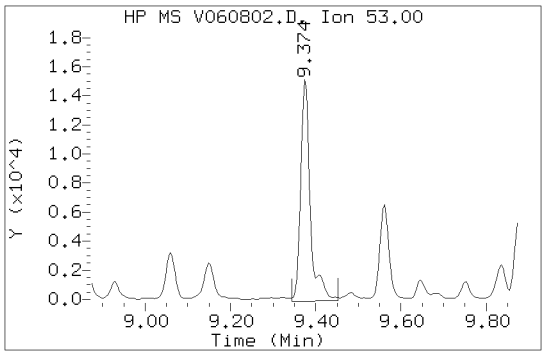
BEFORE

MASS
53
AREA
24598
HEIGHT
15240
22-Jun-2024
12:44
RUCHA
PATEL



AFTER

MASS
53
AREA
24598
HEIGHT
15240
22-Jun-2024
12:44
RUCHA
PATEL



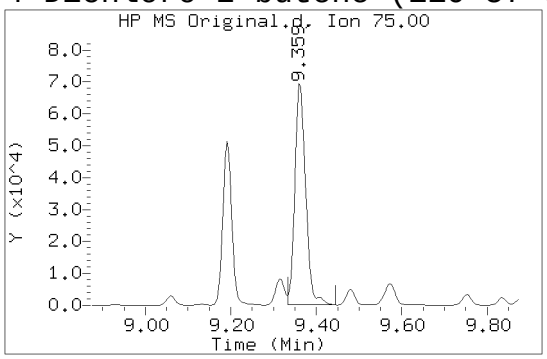
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240608.b\V060802.D
Inj Date : 09-JUN-2024 07:28
InstruID : VOA9.i
LabSampID : VSTD050

trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

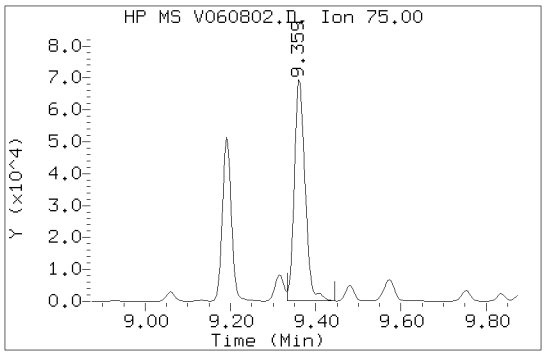
BEFORE

MASS
75
AREA
122900
HEIGHT
69343
22-Jun-2024
12:44
RUCHA
PATEL



AFTER

MASS
75
AREA
122900
HEIGHT
69343
22-Jun-2024
12:44
RUCHA
PATEL

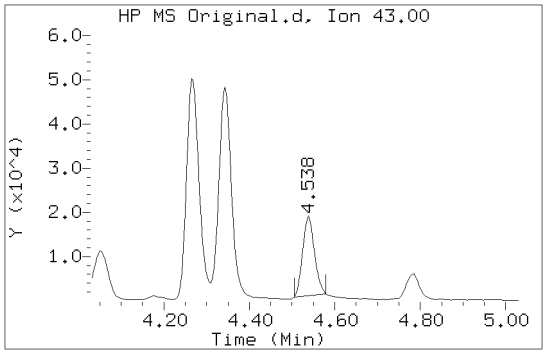


Ethyl Acetate (141-78-6)

Reason Code:

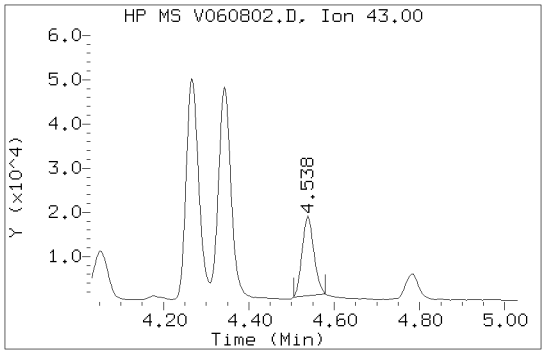
BEFORE

MASS
43
AREA
34988
HEIGHT
18007
22-Jun-2024
12:44
RUCHA
PATEL



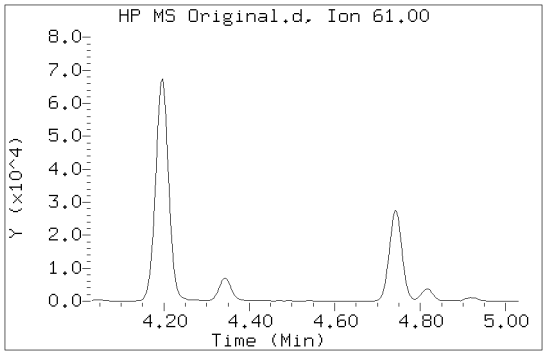
AFTER

MASS
43
AREA
34988
HEIGHT
18007
22-Jun-2024
12:44
RUCHA
PATEL



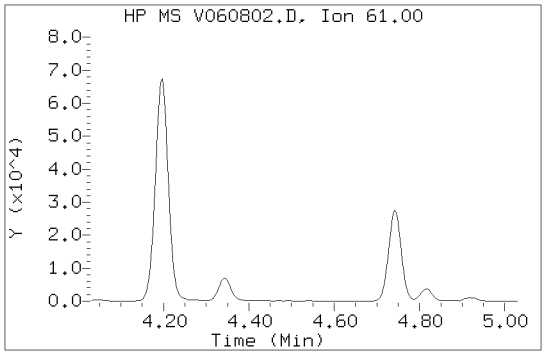
BEFORE

MASS
61
AREA
0
HEIGHT
0
22-Jun-2024
12:44
RUCHA
PATEL



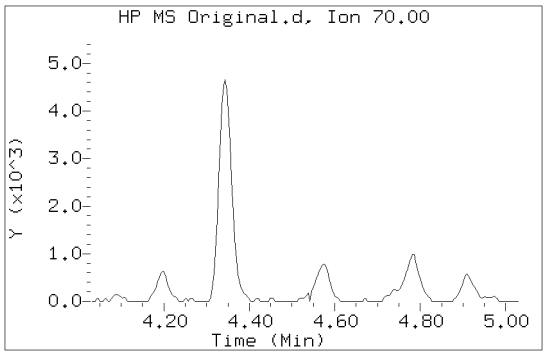
AFTER

MASS
61
AREA
0
HEIGHT
0
22-Jun-2024
12:44
RUCHA
PATEL



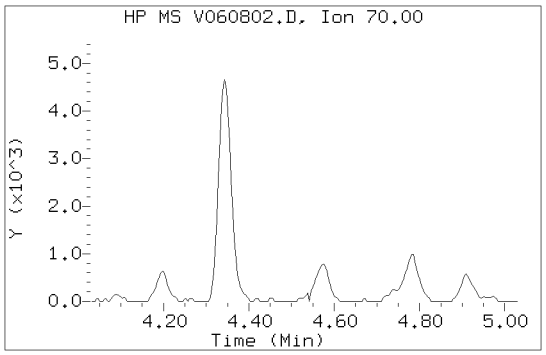
BEFORE

MASS
70
AREA
0
HEIGHT
0
22-Jun-2024
12:44
RUCHA
PATEL



AFTER

MASS
70
AREA
0
HEIGHT
0
22-Jun-2024
12:44
RUCHA
PATEL



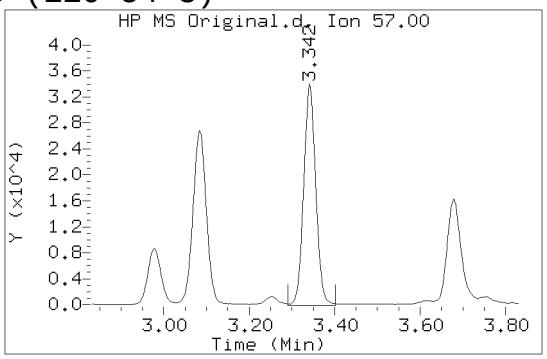
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240608.b\V060802.D
Inj Date : 09-JUN-2024 07:28
InstruID : VOA9.i
LabSampID : VSTD050

n-Hexane (110-54-3)

Reason Code:

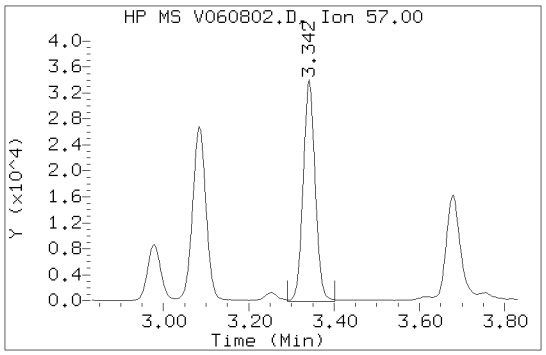
BEFORE

MASS
57
AREA
67960
HEIGHT
34118
22-Jun-2024
12:44
RUCHA
PATEL



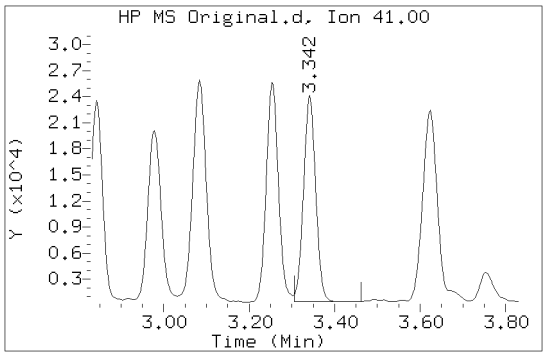
AFTER

MASS
57
AREA
67960
HEIGHT
34118
22-Jun-2024
12:44
RUCHA
PATEL



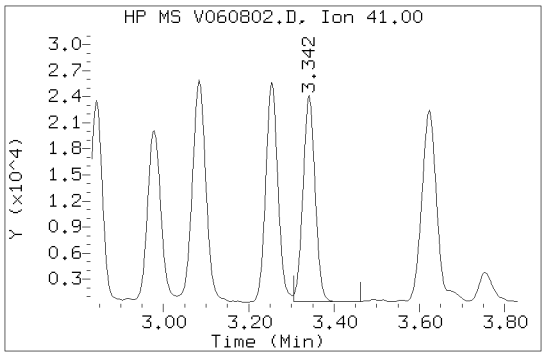
BEFORE

MASS
41
AREA
47976
HEIGHT
23804
22-Jun-2024
12:44
RUCHA
PATEL



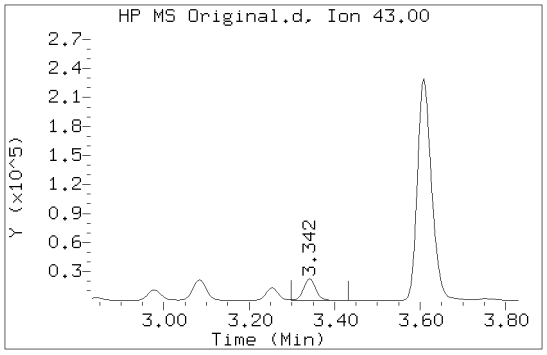
AFTER

MASS
41
AREA
47976
HEIGHT
23804
22-Jun-2024
12:44
RUCHA
PATEL



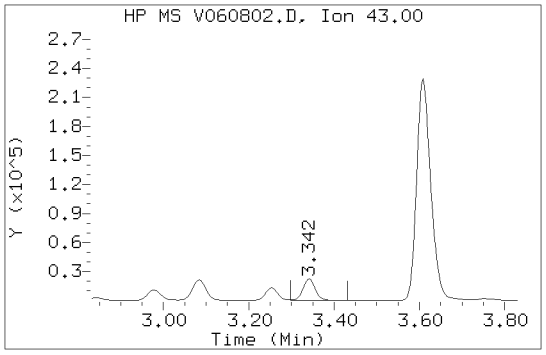
BEFORE

MASS
43
AREA
44846
HEIGHT
22287
22-Jun-2024
12:44
RUCHA
PATEL



AFTER

MASS
43
AREA
44846
HEIGHT
22287
22-Jun-2024
12:44
RUCHA
PATEL

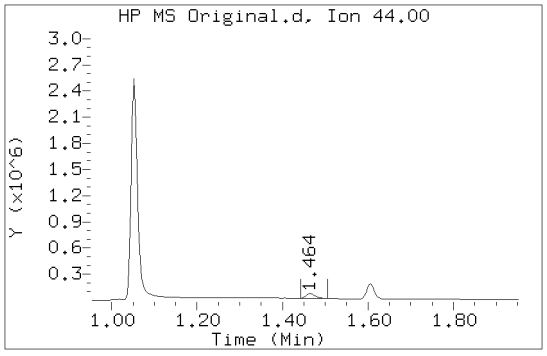


Acetaldehyde (75-07-0)

Reason Code:

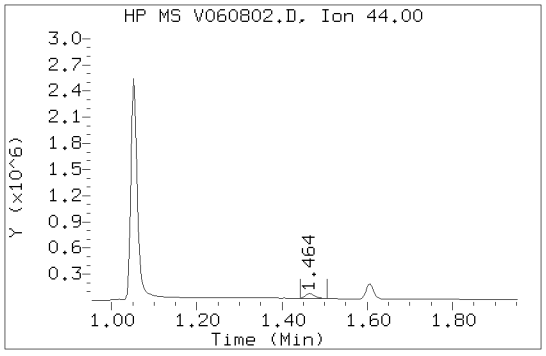
BEFORE

MASS
44
AREA
75828
HEIGHT
55024
22-Jun-2024
12:44
RUCHA
PATEL



AFTER

MASS
44
AREA
75828
HEIGHT
55024
22-Jun-2024
12:44
RUCHA
PATEL



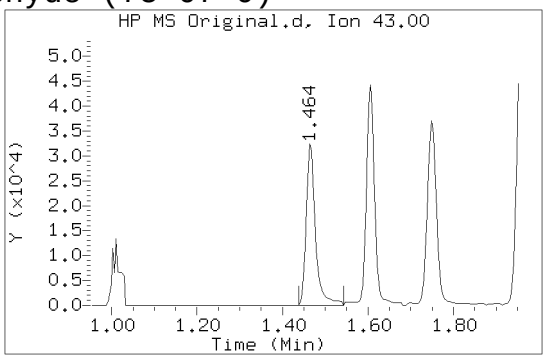
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240608.b\V060802.D
Inj Date : 09-JUN-2024 07:28
InstruID : VOA9.i
LabSampID : VSTD050

Acetaldehyde (75-07-0)

Reason Code:

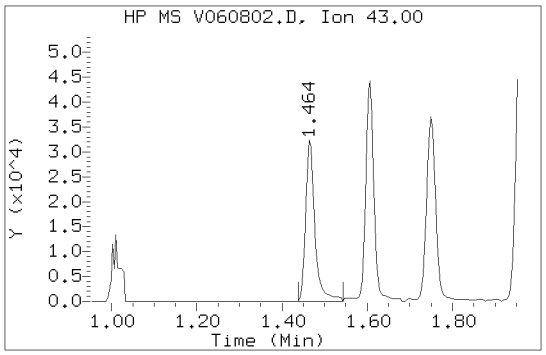
BEFORE

MASS
43
AREA
48934
HEIGHT
32376
22-Jun-2024
12:44
RUCHA
PATEL



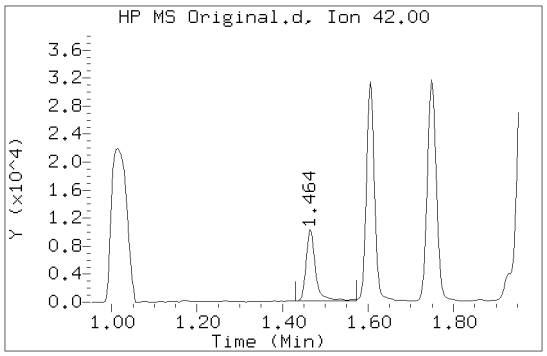
AFTER

MASS
43
AREA
48934
HEIGHT
32376
22-Jun-2024
12:44
RUCHA
PATEL



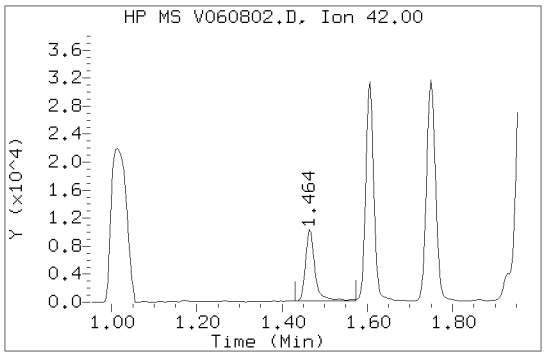
BEFORE

MASS
42
AREA
16035
HEIGHT
10244
22-Jun-2024
12:44
RUCHA
PATEL



AFTER

MASS
42
AREA
16035
HEIGHT
10244
22-Jun-2024
12:44
RUCHA
PATEL

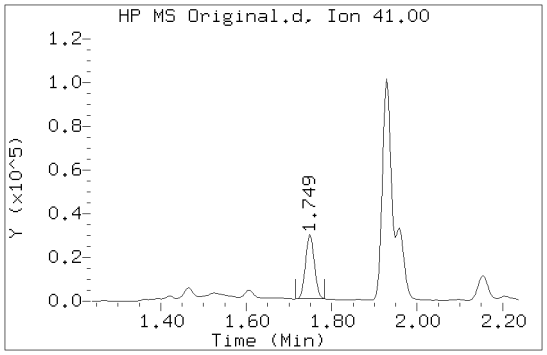


Isobutylene (115-11-7)

Reason Code:

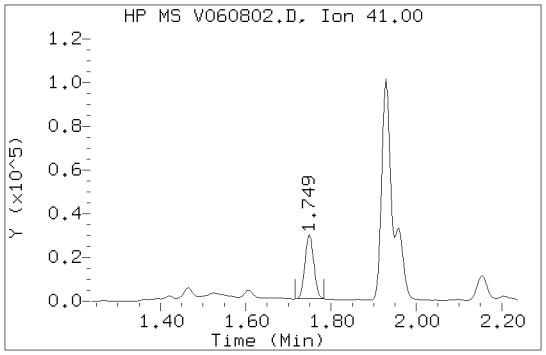
BEFORE

MASS
41
AREA
42235
HEIGHT
29489
22-Jun-2024
12:44
RUCHA
PATEL



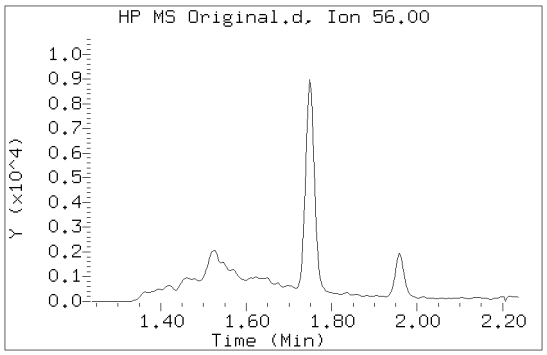
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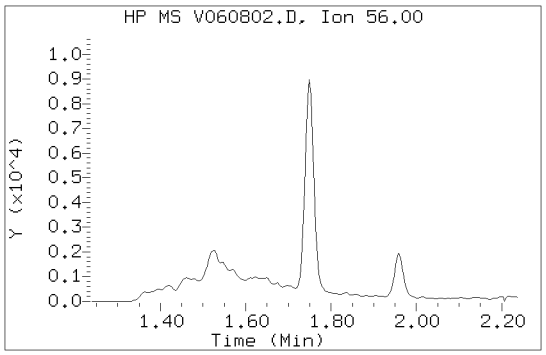
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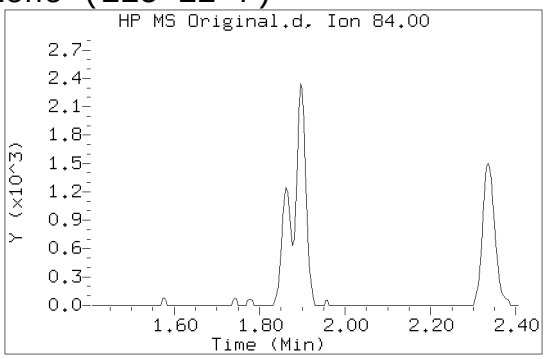
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Inj Date : 09-JUN-2024 07:28
InstruID : VOA9.i
LabSampID : VSTD050

Isobutylene (115-11-7)

Reason Code:

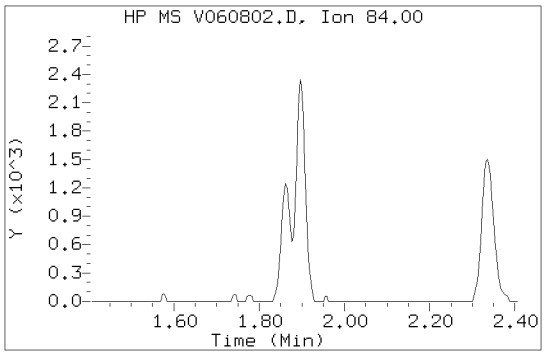
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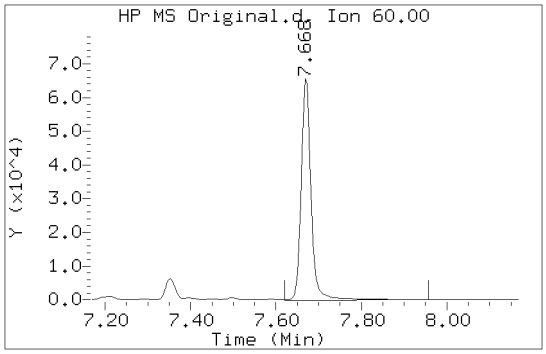


Tetrahydrothiophene (110-01-0)

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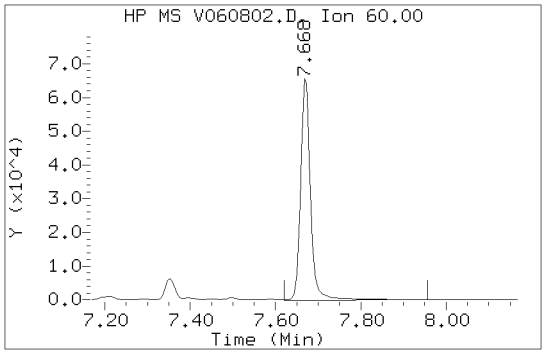
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AFTER

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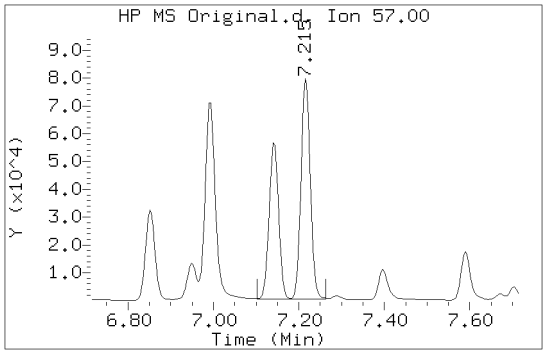


sec-Butyl Ether (6863-58-7)

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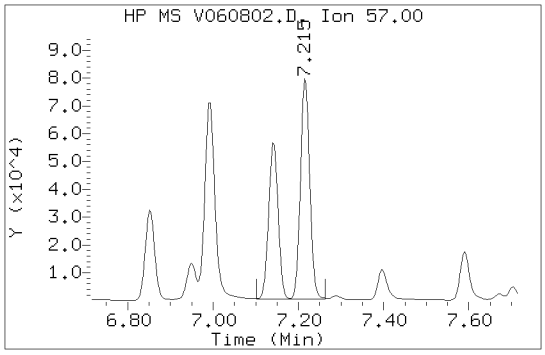
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AFTER

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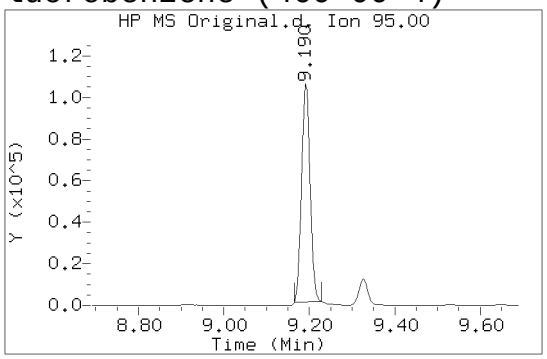
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Inj Date : 09-JUN-2024 07:28
InstruID : VOA9.i
LabSampID : VSTD050

4-Bromofluorobenzene (460-00-4)

Reason Code:

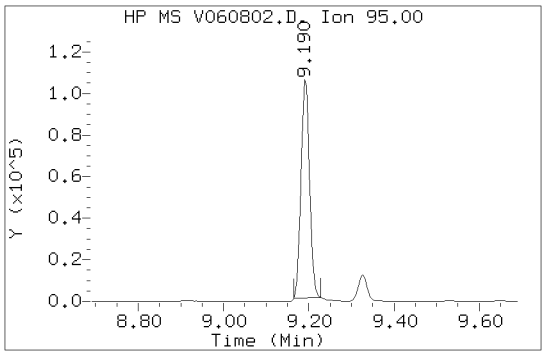
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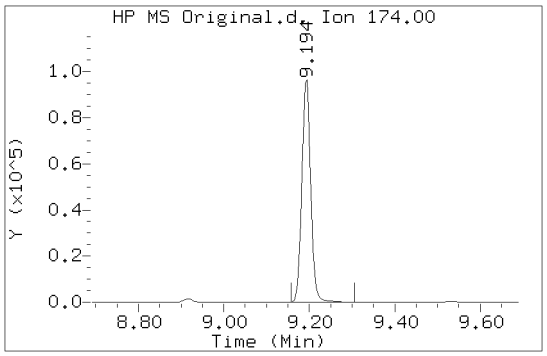
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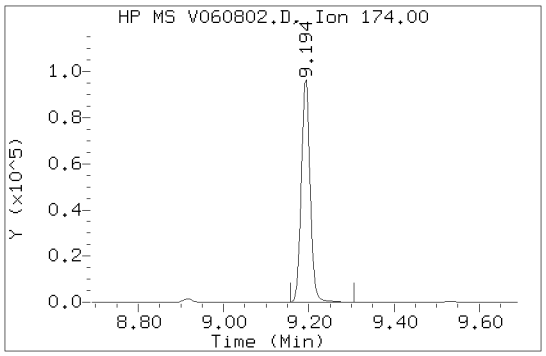
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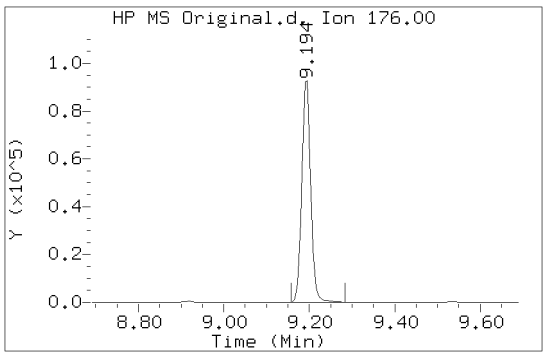
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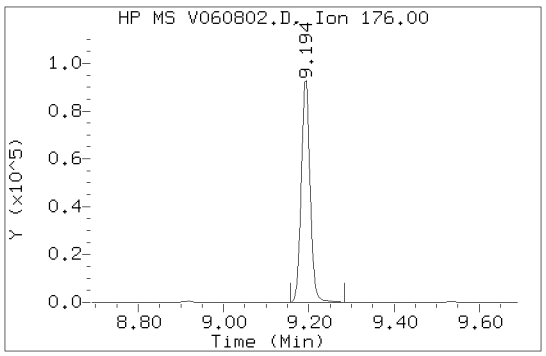
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22-Jun-2024
12:44
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AFTER

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22-Jun-2024
12:44
RUCHA
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Data File: \\NAHSTWS005\Target\chem\voa9.i\U240608.b\V060803.D Page 1
Report Date: 22-Jun-2024 12:44

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240608.b\V060803.D
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Inj Date : 09-JUN-2024 08:11
Operator : TS Inst ID: VOA9.i
Smp Info : VLCSW-240608;VLCSW-240608;3;;LCS
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240608.b\8260C.m
Meth Date : 22-Jun-2024 12:44 VOA9.i Quant Type: ISTD
Cal Date : 08-JUN-2024 19:08 Cal File: C060811.D
Als bottle: 43 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1	Pentafluorobenzene	168	4.811	4.815	(1.000)	300564	50.0000	
2	Dichlorodifluoromethane	85	1.156	1.168	(0.240)	35289	18.3925	18.39
3	Chloromethane	50	1.291	1.299	(0.268)	82434	17.6030	17.60
4	Propionitrile	54	4.331	4.339	(0.900)	54752	184.981	184.98(aQ)
5	Vinyl Chloride	62	1.370	1.381	(0.285)	47568	18.4894	18.48(Q)
6	Bromomethane	94	1.599	1.610	(0.332)	23790	19.9490	19.94
7	Chloroethane	64	1.689	1.700	(0.351)	32578	18.9581	18.95
8	Trichlorofluoromethane	101	1.884	1.895	(0.392)	54503	18.4015	18.40(Q)
9	Acrolein	56	2.255	2.266	(0.469)	4550	47.1434	47.14
10	Acetone	43	2.401	2.412	(0.499)	38384	41.7148	41.71
11	1,1-Dichloroethene	96	2.322	2.334	(0.483)	32825	17.6409	17.64
12	Isobutyl Alcohol	43	5.280	5.284	(1.097)	112691	389.566	389.56(aQ)
13	Acetonitrile	39	2.663	2.675	(0.554)	38656	163.412	163.41(a)
14	Allyl Chloride	41	2.663	2.675	(0.554)	94742	16.9670	16.96(a)
15	Iodomethane	142	2.457	2.469	(0.511)	27324	45.6510	45.65(Q)
16	Acrylonitrile	53	3.061	3.068	(0.636)	28027	36.2410	36.24
17	Methylene Chloride	84	2.783	2.795	(0.579)	41592	19.4813	19.48
18	Methyl tert-butyl ether	73	3.072	3.083	(0.639)	93382	17.8258	17.82
19	Carbon Disulfide	76	2.510	2.521	(0.522)	189023	34.3024	34.30
20	trans-1,2-Dichloroethene	96	3.049	3.061	(0.634)	35825	18.9529	18.95(Q)

21 Vinyl Acetate	43	4.335	4.343 (0.901)	43054	39.2894	39.28
22 1,1-Dichloroethane	63	3.507	3.514 (0.729)	69582	18.9902	18.99(Q)

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240608.b\V060803.D Page 2
Report Date: 22-Jun-2024 12:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	23 Chloroprene	53	3.601	3.608	(0.748)	57678	17.4354	17.43
	24 2-Butanone	43	4.257	4.264	(0.885)	47358	43.0762	43.07
	25 Methacrylonitrile	41	4.489	4.493	(0.933)	23351	17.8227	17.82(a)
	26 2,2-Dichloropropane	77	4.174	4.182	(0.868)	37675	12.8630	12.86
	27 cis-1,2-Dichloroethene	96	4.189	4.197	(0.871)	43182	18.9833	18.98
	28 Chloroform	83	4.568	4.572	(0.949)	70297	19.0646	19.06
	29 Bromochloromethane	128	4.463	4.470	(0.928)	21659	19.3747	19.37
$	30 Dibromofluoromethane	113	4.740	4.748	(0.985)	109305	56.3766	56.37
	31 1,1,1-Trichloroethane	97	4.736	4.744	(0.984)	54042	18.0704	18.07
	32 1,1-Dichloropropene	75	4.916	4.920	(0.886)	52747	18.8759	18.87
	33 1,2-Dichloroethane	62	5.171	5.175	(0.932)	57575	19.2090	19.20
	34 Carbon Tetrachloride	117	4.905	4.913	(0.884)	40368	16.8074	16.80
$	35 1,2-Dichloroethane-d4	65	5.092	5.096	(1.058)	129452	55.0727	55.07(Q)
*	36 1,4-Difluorobenzene	114	5.546	5.550	(1.000)	436367	50.0000	
	37 Benzene	78	5.134	5.138	(0.926)	162159	19.2183	19.21(Q)
	38 Trichloroethene	130	5.782	5.786	(1.043)	42693	19.6308	19.63
	39 Bromodichloromethane	83	6.273	6.277	(1.131)	45154	17.1277	17.12
	40 Methyl Methacrylate	41	5.820	5.824	(1.210)	15704	20.3913	20.39(aQ)
	41 2-Chloroethylvinyl ether	63	6.573	6.573	(1.185)	18889	40.5341	40.53
	42 1,2-Dichloropropane	63	6.003	6.007	(1.082)	43676	19.0590	19.05
	43 2-Nitropropane	43	6.502	6.506	(1.351)	8044	17.2238	17.22
	44 Dibromomethane	93	6.116	6.116	(1.103)	25117	18.9072	18.90
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	86232	40.1998	40.19
	46 cis-1,3-Dichloropropene	75	6.686	6.690	(1.205)	55749	17.1132	17.11
*	47 Chlorobenzene-d5	117	8.181	8.182	(1.000)	383939	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.846)	400877	55.1676	55.16(M)
	49 Ethyl Methacrylate	69	7.285	7.289	(1.314)	49149	18.1799	18.17(a)
	50 Toluene	91	6.978	6.978	(0.853)	166570	19.4433	19.44
	51 trans-1,3-Dichloropropene	75	7.192	7.196	(1.297)	44691	17.2464	17.24
	52 2-Hexanone	43	7.210	7.214	(0.881)	58591	40.5661	40.56(Q)
	53 1,1,2-Trichloroethane	83	7.349	7.353	(0.898)	32487	19.5811	19.58
	54 1,3-Dichloropropane	76	7.495	7.496	(0.916)	69590	19.5411	19.54
	55 Dibromochloromethane	129	7.687	7.690	(0.940)	34240	18.3971	18.39
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	32290	18.6339	18.63
	57 1,2-Dibromoethane	107	7.780	7.784	(0.951)	37459	19.6093	19.60
	58 1-Chlorohexane	55	8.193	8.193	(1.477)	30993	17.4253	17.42
	59 Chlorobenzene	112	8.208	8.208	(1.003)	108087	19.5557	19.55
	60 1,1,1,2-Tetrachloroethane	131	8.279	8.283	(1.012)	35868	18.8751	18.87
	61 Ethylbenzene	106	8.305	8.305	(1.015)	54445	18.3964	18.39
	62 m,p-Xylenes	106	8.406	8.406	(1.027)	138286	37.6771	37.67
	63 o-Xylene	106	8.744	8.744	(1.069)	67637	18.8763	18.87
	64 Styrene	104	8.759	8.759	(1.071)	109839	19.1369	19.13
	66 Bromoform	173	8.916	8.916	(1.090)	20415	18.0401	18.04(Q)
	67 Isopropylbenzene	105	9.059	9.059	(1.107)	166948	19.4341	19.43
	68 1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	53190	19.8897	19.88
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	145490	54.2920	54.29(M)
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	201847	50.0000	(Q)
	71 1,2,3-Trichloropropane	75	9.358	9.359	(0.920)	47983	17.4769	17.47(Q)
	72 trans-1,4-Dichloro-2-butene	53	9.373	9.374	(1.146)	10224	17.3089	17.30(a)
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	190539	19.4584	19.45
	74 Bromobenzene	156	9.314	9.314	(0.916)	46681	19.6999	19.69
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	131824	19.6871	19.68

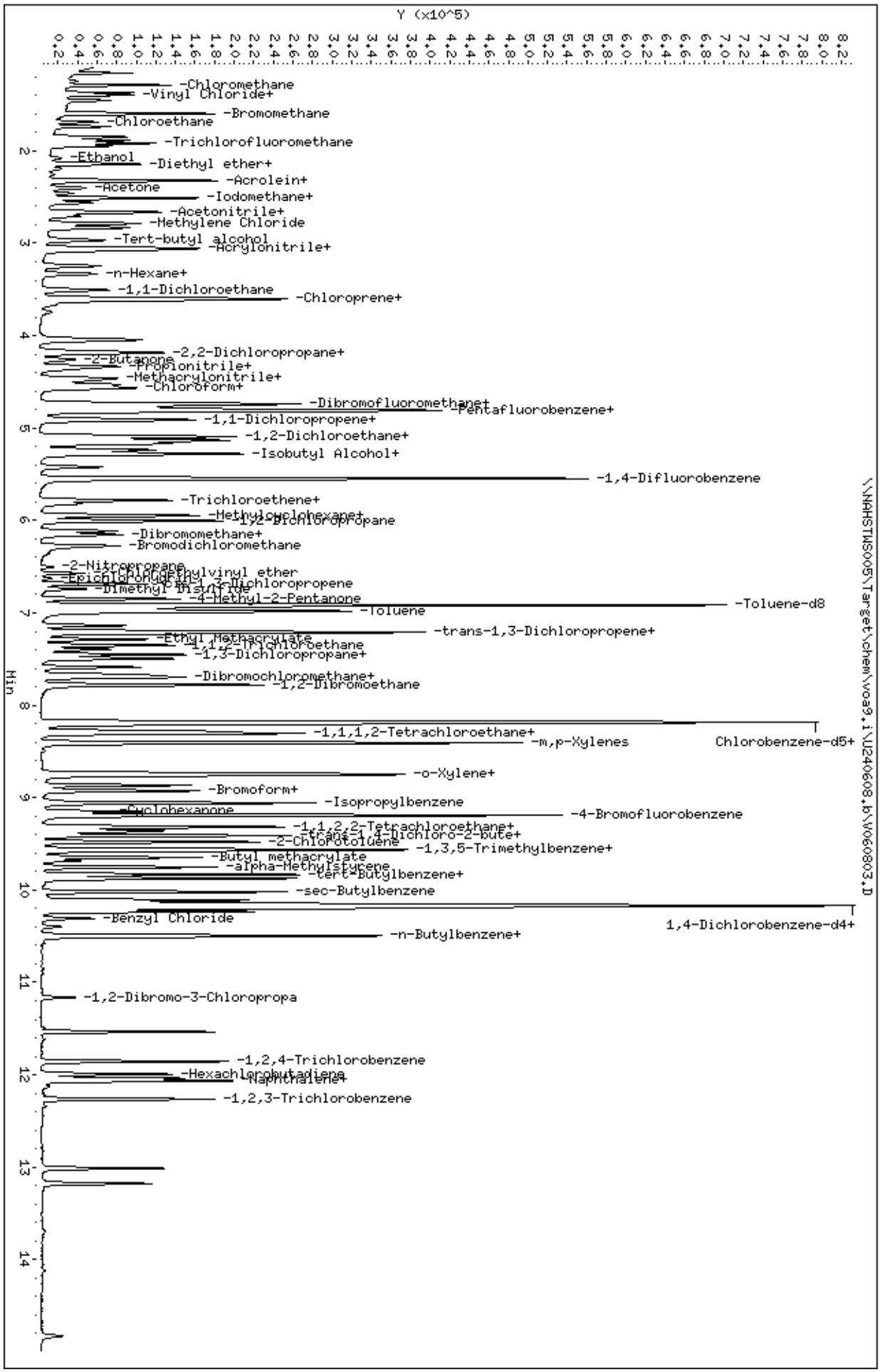
76	2-Chlorotoluene	91	9.478	9.479 (0.932)	116487	19.4065	19.40
77	4-Chlorotoluene	91	9.572	9.572 (0.941)	134256	18.0681	18.06

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240608.b\V060803.D Page 3
Report Date: 22-Jun-2024 12:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	119480	20.6157	20.61(Q)
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	134070	19.4468	19.44
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	158419	20.2661	20.26
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	135576	20.1091	20.10
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	82164	19.7931	19.79
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	84471	19.3124	19.31
86	Benzyl Chloride	91	10.307	10.307	(1.260)	33526	12.8633	12.86
87	n-Butylbenzene	91	10.491	10.491	(1.032)	117378	19.0402	19.04
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	81916	19.8983	19.89
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	6718	21.2289	21.22
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	57461	19.8030	19.80
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	23952	20.7270	20.72
92	Naphthalene	128	12.065	12.065	(1.187)	135085	21.9811	21.98
93	1,2,3-Trichlorobenzene	180	12.264	12.264	(1.206)	53653	22.2022	22.20
146	Methyl acetate	43	2.705	2.716	(0.562)	34163	19.8808	19.88
138	Freon TF	101	2.322	2.337	(0.483)	30823	18.0250	18.02
141	Cyclohexane	56	4.778	4.781	(0.993)	54971	18.7495	18.74(Q)
142	Tetrahydrofuran	42	4.538	4.545	(0.943)	14555	35.1287	35.12
147	Methylcyclohexane	55	5.943	5.944	(1.072)	84334	17.0640	17.06
135	1,4-Dioxane	88	6.165	6.165	(1.281)	10002	430.752	430.75
132	n-Butanol	56	5.820	5.824	(1.210)	23358	431.210	431.20(a)
136	n-Hexane	57	3.331	3.342	(0.692)	28374	14.6018	14.60(Q)
139	Diethyl ether	59	2.139	2.150	(0.445)	26927	17.5929	17.59(Q)
148	Tert-butyl alcohol	59	2.967	2.978	(0.617)	71876	413.483	413.48
149	Isopropyl alcohol	45	2.562	2.574	(0.533)	54141	398.393	398.39(Q)
156	Diisopropyl ether	45	3.615	3.623	(0.751)	116589	17.3852	17.38
162	Butyl acrylate	55	8.729	8.729	(1.067)	62597	18.6055	18.60(Q)
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	176902	19.2639	19.26(Q)
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	112184	18.4499	18.44
167	Ethanol	45	2.079	2.090	(0.432)	10588	408.604	408.60(Q)
172	tert-Butyl formate	59	5.239	5.243	(1.089)	72368	44.2353	44.23(Q)
151	4-Methyl-2-pentanol	45	7.210	7.214	(1.300)	216781	379.849	379.84
140	1,3-Butadiene	54	1.396	1.408	(0.290)	20943	18.3724	18.37
182	Epichlorohydrin	57	6.626	6.630	(1.195)	7278	66.0674	66.06
M 94	1,2-Dichloroethylene (total)	96				79007	37.7036	37.70
M 95	Xylenes (total)	106				205923	55.4468	55.44
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	49959	18.5544	18.55
131	Methyl Acrylate	55	4.361	4.369	(0.907)	43685	18.2456	18.24
189	n-Butyl acetate	43	7.702	7.702	(0.941)	64821	20.2451	20.24(Q)
134	Cyclohexanone	55	9.149	9.149	(0.900)	40419	386.817	386.81(aQ)
185	Isoprene	39	2.146	2.157	(0.446)	8513	17.2846	17.28
188	Isopropyl acetate	43	5.280	5.284	(0.952)	112695	19.3170	19.31
150	Allyl alcohol	57	3.331	3.342	(0.692)	28374	292.035	292.03
194	Acetaldehyde	44	1.453	1.464	(0.302)	94331	163.679	163.67(Q)
200	Dimethyl Disulfide	94	6.742	6.746	(0.824)	18257	15.3340	15.33
133	Ethyl Acrylate	55	5.943	5.944	(1.235)	84334	17.2120	17.21
163	Butyl methacrylate	41	9.647	9.647	(0.949)	42332	22.4040	22.40(Q)
159	Propylene oxide	43	2.195	2.206	(0.456)	5868	32.3699	32.36
203	2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	48097	20.9974	20.99
204	Tetrahydrothiophene	60	7.668	7.668	(0.937)	40312	18.3464	18.34(A)
205	sec-Butyl Ether	57	7.214	7.214	(0.882)	46453	11.5085	11.50(A)
187	n-Amyl acetate	43	8.927	8.928	(1.091)	68865	21.5666	21.56(Q)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240608.b\V060803.D
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Client ID: VLCSW-240608
Sample Info: VLCSW-240608;VLCSW-240608;3;;LCS
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

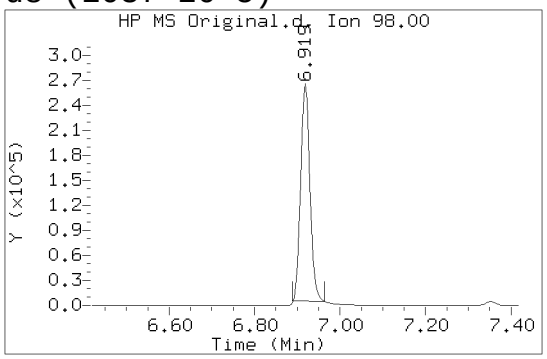
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LabSampID : VLCSW-240608

Toluene-d8 (2037-26-5)

Reason Code: MPT

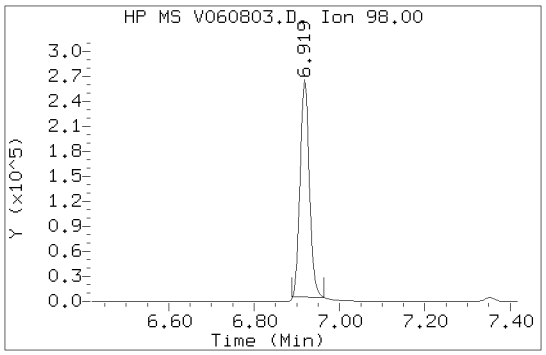
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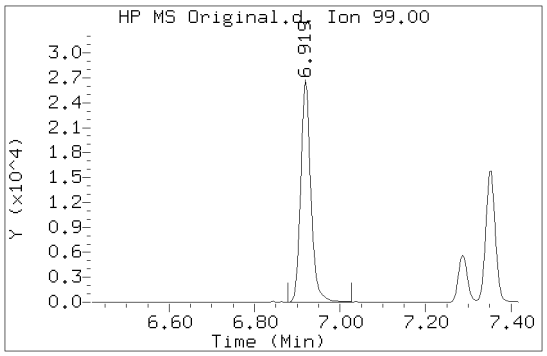
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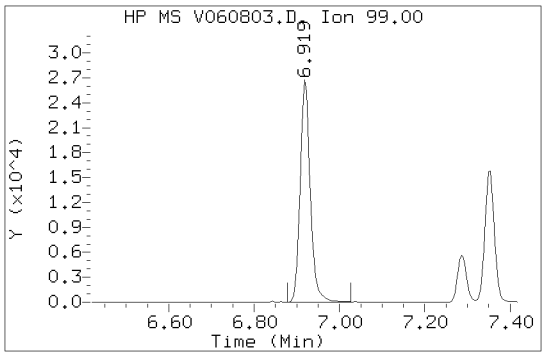
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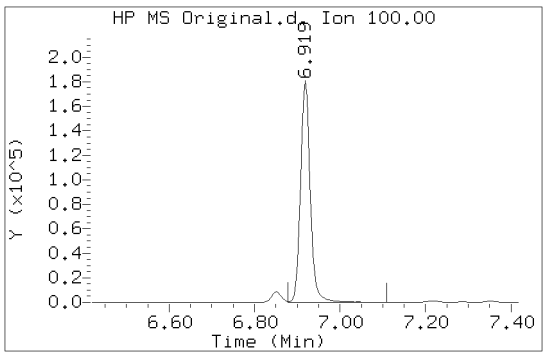
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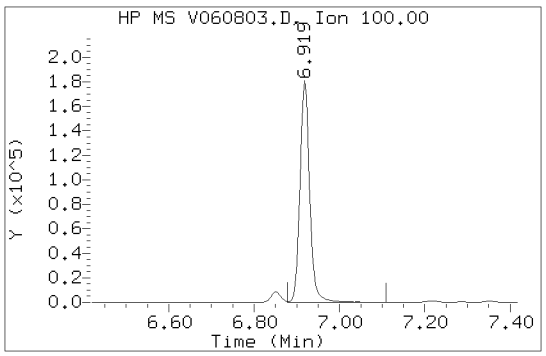
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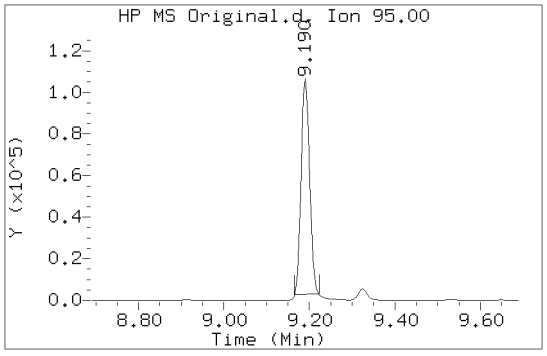


4-Bromofluorobenzene (460-00-4)

Reason Code: MPT

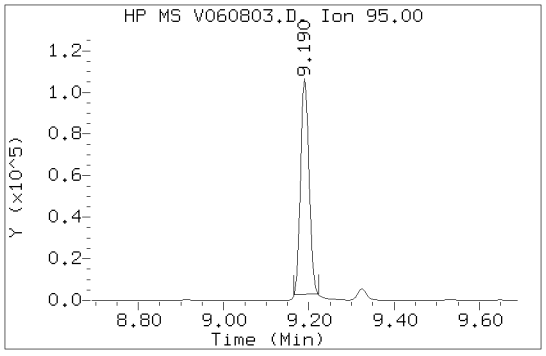
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AFTER

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22-Jun-2024
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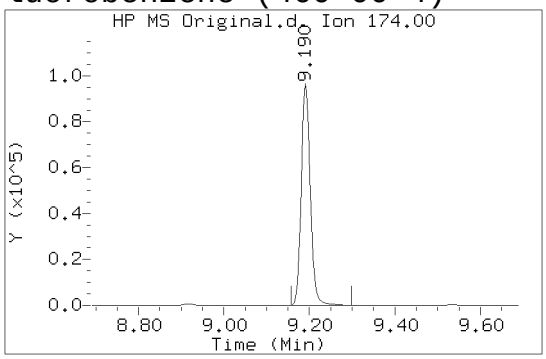
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Inj Date : 09-JUN-2024 08:11
InstruID : VOA9.i
LabSampID : VLCSW-240608

4-Bromofluorobenzene (460-00-4)

Reason Code: MPT

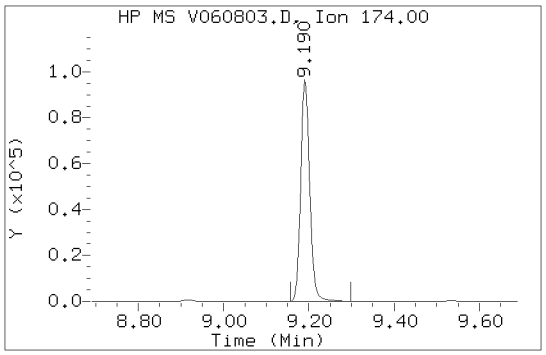
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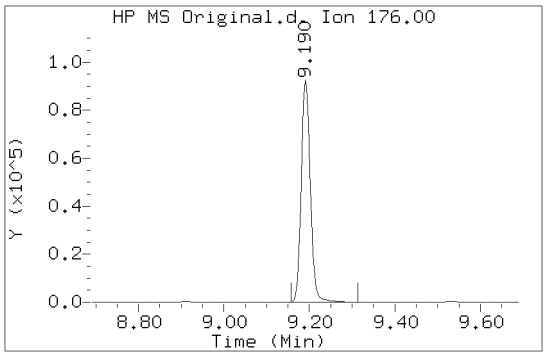
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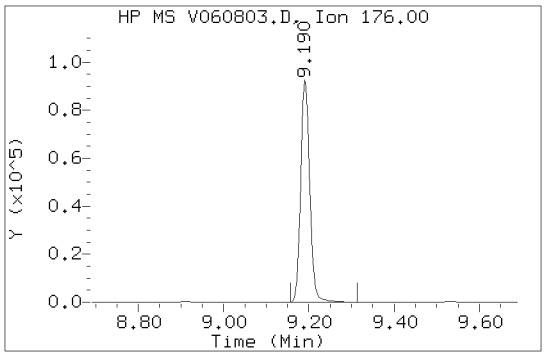
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AFTER

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Data File: \\NAHSTWS005\Target\chem\voa9.i\U240608.b\V060804.D Page 1
Report Date: 22-Jun-2024 12:44

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240608.b\V060804.D
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Inj Date : 09-JUN-2024 08:33
Operator : TS Inst ID: VOA9.i
Smp Info : VLCSDW-240608;VLCSDW-240608;3;;LCSD
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240608.b\8260C.m
Meth Date : 22-Jun-2024 12:44 VOA9.i Quant Type: ISTD
Cal Date : 08-JUN-2024 19:08 Cal File: C060811.D
Als bottle: 43 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.812	4.815	(1.000)	301318	50.0000	
2 Dichlorodifluoromethane	85	1.164	1.168	(0.242)	33672	17.4910	17.49
3 Chloromethane	50	1.295	1.299	(0.269)	80411	17.0937	17.09
4 Propionitrile	54	4.335	4.339	(0.901)	54198	182.549	182.54(aQ)
5 Vinyl Chloride	62	1.374	1.381	(0.286)	45619	17.6626	17.66(Q)
6 Bromomethane	94	1.606	1.610	(0.334)	24125	20.1974	20.19
7 Chloroethane	64	1.693	1.700	(0.352)	30937	17.9234	17.92
8 Trichlorofluoromethane	101	1.891	1.895	(0.393)	52341	17.6274	17.62(Q)
9 Acrolein	56	2.262	2.266	(0.470)	4408	45.4846	45.48(Q)
10 Acetone	43	2.405	2.412	(0.500)	37584	40.6088	40.60
11 1,1-Dichloroethene	96	2.326	2.334	(0.484)	31690	16.9883	16.98
12 Isobutyl Alcohol	43	5.280	5.284	(1.097)	110211	379.696	379.69(aQ)
13 Acetonitrile	39	2.667	2.675	(0.554)	37547	158.220	158.22(a)
14 Allyl Chloride	41	2.667	2.675	(0.554)	91127	16.2553	16.25(a)
15 Iodomethane	142	2.465	2.469	(0.512)	26080	43.5741	43.57(Q)
16 Acrylonitrile	53	3.061	3.068	(0.636)	27347	35.2125	35.21
17 Methylene Chloride	84	2.791	2.795	(0.580)	40598	18.9318	18.93
18 Methyl tert-butyl ether	73	3.076	3.083	(0.639)	91071	17.3210	17.32
19 Carbon Disulfide	76	2.517	2.521	(0.523)	178944	32.3920	32.39
20 trans-1,2-Dichloroethene	96	3.053	3.061	(0.635)	34460	18.1582	18.15(Q)

21 Vinyl Acetate	43	4.335	4.343 (0.901)	41532	37.7572	37.75
22 1,1-Dichloroethane	63	3.507	3.514 (0.729)	67027	18.2198	18.21(Q)

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240608.b\V060804.D Page 2
Report Date: 22-Jun-2024 12:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	23 Chloroprene	53	3.604	3.608	(0.749)	54836	16.5348	16.53
	24 2-Butanone	43	4.261	4.264	(0.885)	45993	41.6400	41.64
	25 Methacrylonitrile	41	4.489	4.493	(0.933)	22770	17.3199	17.31(a)
	26 2,2-Dichloropropane	77	4.178	4.182	(0.868)	36112	12.2985	12.29
	27 cis-1,2-Dichloroethene	96	4.193	4.197	(0.871)	42842	18.7800	18.77
	28 Chloroform	83	4.568	4.572	(0.949)	67894	18.3438	18.34
	29 Bromochloromethane	128	4.467	4.470	(0.928)	21782	19.4381	19.43
$	30 Dibromofluoromethane	113	4.744	4.748	(0.986)	107855	55.4809	55.48
	31 1,1,1-Trichloroethane	97	4.737	4.744	(0.984)	52385	17.4725	17.47
	32 1,1-Dichloropropene	75	4.917	4.920	(0.886)	50045	17.8605	17.86
	33 1,2-Dichloroethane	62	5.171	5.175	(0.932)	56242	18.6949	18.69
	34 Carbon Tetrachloride	117	4.909	4.913	(0.885)	38487	15.9837	15.98
$	35 1,2-Dichloroethane-d4	65	5.093	5.096	(1.058)	128258	54.4126	54.41(Q)
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	437472	50.0000	
	37 Benzene	78	5.134	5.138	(0.925)	156487	18.4820	18.48(Q)
	38 Trichloroethene	130	5.786	5.786	(1.043)	41560	19.0607	19.06
	39 Bromodichloromethane	83	6.274	6.277	(1.130)	43730	16.5457	16.54
	40 Methyl Methacrylate	41	5.820	5.824	(1.210)	15103	19.5387	19.53(aQ)
	41 2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	17541	37.9125	37.91
	42 1,2-Dichloropropane	63	6.004	6.007	(1.082)	42544	18.5073	18.50
	43 2-Nitropropane	43	6.506	6.506	(1.352)	7973	17.0387	17.03
	44 Dibromomethane	93	6.116	6.116	(1.102)	24902	18.6940	18.69
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	84106	38.4447	38.44
	46 cis-1,3-Dichloropropene	75	6.686	6.690	(1.205)	54787	16.7755	16.77
*	47 Chlorobenzene-d5	117	8.182	8.182	(1.000)	391619	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.846)	405885	54.7538	54.75(M)
	49 Ethyl Methacrylate	69	7.286	7.289	(1.313)	47900	17.6818	17.68(a)
	50 Toluene	91	6.978	6.978	(0.853)	161553	18.4745	18.47
	51 trans-1,3-Dichloropropene	75	7.192	7.196	(1.296)	43507	16.7471	16.74
	52 2-Hexanone	43	7.211	7.214	(0.881)	57460	38.8735	38.87(Q)
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	31797	18.7688	18.76
	54 1,3-Dichloropropane	76	7.496	7.496	(0.916)	67956	18.6923	18.69
	55 Dibromochloromethane	129	7.687	7.690	(0.940)	33652	17.7266	17.72
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	31010	17.5443	17.54
	57 1,2-Dibromoethane	107	7.781	7.784	(0.951)	36485	18.7278	18.72
	58 1-Chlorohexane	55	8.193	8.193	(1.476)	29523	16.4577	16.45
	59 Chlorobenzene	112	8.208	8.208	(1.003)	103400	18.3097	18.30
	60 1,1,1,2-Tetrachloroethane	131	8.279	8.283	(1.012)	35242	18.2082	18.20
	61 Ethylbenzene	106	8.305	8.305	(1.015)	52181	17.2856	17.28
	62 m,p-Xylenes	106	8.407	8.406	(1.027)	133299	35.6062	35.60
	63 o-Xylene	106	8.744	8.744	(1.069)	65252	17.8535	17.85
	64 Styrene	104	8.759	8.759	(1.071)	105106	17.9532	17.95
	66 Bromoform	173	8.916	8.916	(1.090)	19581	17.0465	17.04(Q)
	67 Isopropylbenzene	105	9.059	9.059	(1.107)	160893	18.3620	18.36
	68 1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	51382	18.6193	18.61
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	148637	54.3809	54.38(M)
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	207920	50.0000	(Q)
	71 1,2,3-Trichloropropane	75	9.359	9.359	(0.920)	52082	18.4466	18.44
	72 trans-1,4-Dichloro-2-butene	53	9.374	9.374	(1.146)	10126	16.7933	16.79(a)
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	183103	18.1528	18.15
	74 Bromobenzene	156	9.314	9.314	(0.916)	45353	18.5678	18.56
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	126296	18.3441	18.34

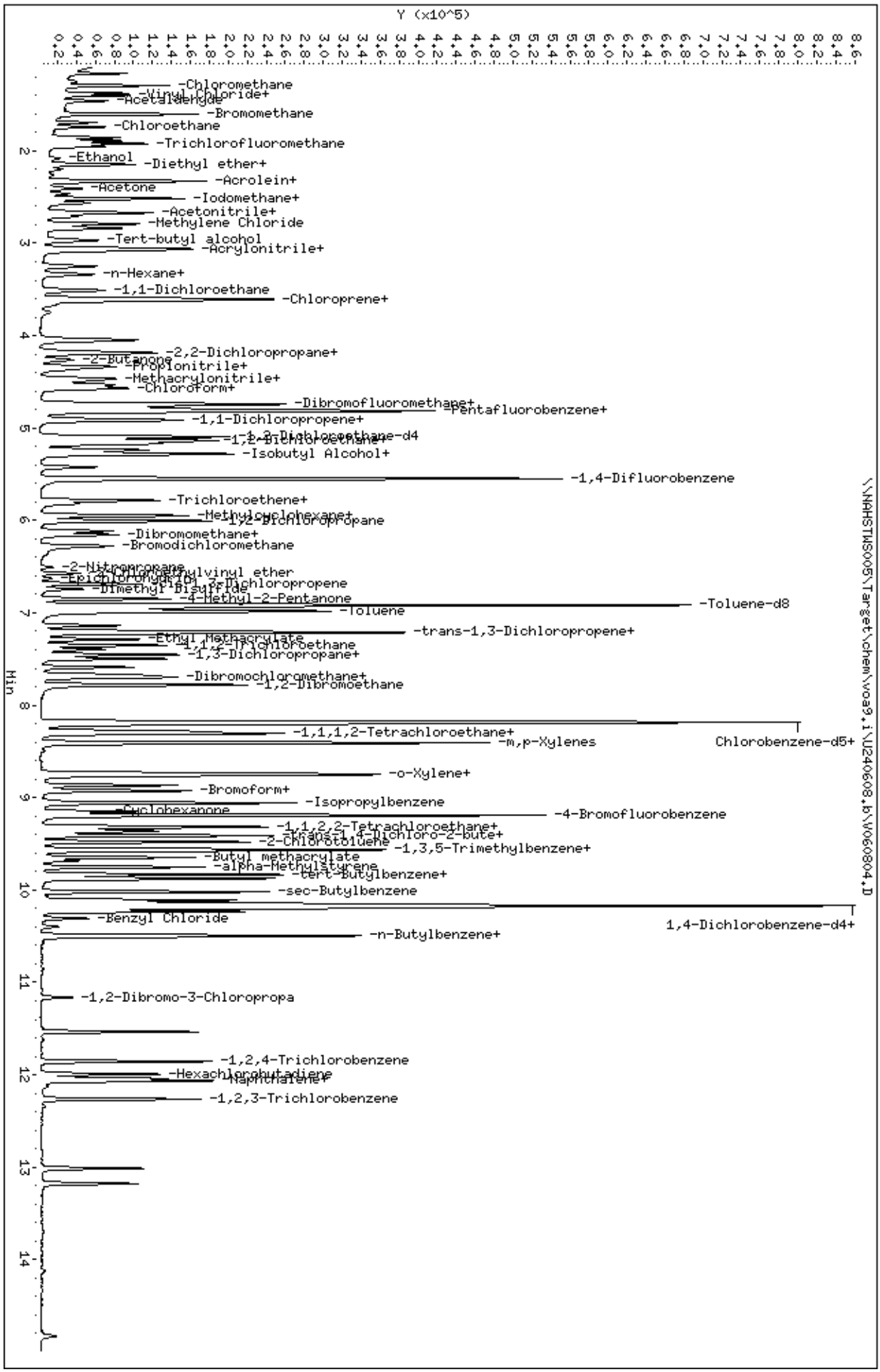
76	2-Chlorotoluene	91	9.479	9.479 (0.932)	114147	18.4544	18.45
77	4-Chlorotoluene	91	9.572	9.572 (0.941)	130992	17.1140	17.11

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240608.b\V060804.D Page 3
Report Date: 22-Jun-2024 12:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	113856	19.0715	19.07(Q)
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	128474	18.0908	18.09
81	sec-Butylbenzene	105	10.019	10.018	(0.985)	152776	18.9733	18.97
82	p-Isopropyltoluene	119	10.142	10.146	(0.997)	129684	18.6734	18.67
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	78713	18.3694	18.36
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	82978	18.3971	18.39
86	Benzyl Chloride	91	10.307	10.307	(1.260)	31635	11.8644	11.86(Q)
87	n-Butylbenzene	91	10.491	10.491	(1.032)	110578	17.4132	17.41
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	79308	18.6765	18.67
89	1,2-Dibromo-3-Chloropropane	155	11.166	11.165	(1.098)	6577	20.2080	20.20
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	54302	18.1677	18.16
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	22893	19.2548	19.25
92	Naphthalene	128	12.065	12.065	(1.187)	126681	20.0322	20.03
93	1,2,3-Trichlorobenzene	180	12.264	12.264	(1.206)	51720	20.7718	20.77
146	Methyl acetate	43	2.712	2.716	(0.564)	33705	19.5474	19.54
138	Freon TF	101	2.330	2.337	(0.484)	29187	17.0256	17.02
141	Cyclohexane	56	4.778	4.781	(0.993)	51681	17.4467	17.44(Q)
142	Tetrahydrofuran	42	4.538	4.545	(0.943)	14032	33.6630	33.66
147	Methylcyclohexane	55	5.944	5.944	(1.071)	80967	16.3596	16.35
135	1,4-Dioxane	88	6.165	6.165	(1.281)	9807	420.416	420.41
132	n-Butanol	56	5.820	5.824	(1.210)	21433	394.756	394.75(a)
136	n-Hexane	57	3.338	3.342	(0.694)	28275	14.5144	14.51(Q)
139	Diethyl ether	59	2.143	2.150	(0.445)	26223	17.0666	17.06(Q)
148	Tert-butyl alcohol	59	2.967	2.978	(0.617)	68807	393.566	393.56
149	Isopropyl alcohol	45	2.566	2.574	(0.533)	52509	384.524	384.52(Q)
156	Diisopropyl ether	45	3.616	3.623	(0.751)	114306	16.9909	16.99
162	Butyl acrylate	55	8.729	8.729	(1.067)	62963	18.3474	18.34(Q)
164	Dicyclopentadiene	66	10.195	10.198	(1.003)	170755	18.0236	18.02(Q)
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	108529	17.3495	17.34
167	Ethanol	45	2.083	2.090	(0.433)	10212	392.450	392.45(Q)
172	tert-Butyl formate	59	5.239	5.243	(1.089)	68930	41.9152	41.91
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	209919	367.025	367.02
140	1,3-Butadiene	54	1.400	1.408	(0.291)	19541	17.0996	17.09
182	Epichlorohydrin	57	6.630	6.630	(1.195)	7839	70.9045	70.90
M 94	1,2-Dichloroethylene (total)	96				77302	36.7824	36.78
M 95	Xylenes (total)	106				198551	53.3268	53.32
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	48836	17.6075	17.60
131	Methyl Acrylate	55	4.365	4.369	(0.907)	42614	17.7516	17.75
189	n-Butyl acetate	43	7.702	7.702	(0.941)	63304	19.3885	19.38
134	Cyclohexanone	55	9.149	9.149	(0.900)	38914	361.575	361.57(aQ)
185	Isoprene	39	2.150	2.157	(0.447)	8221	16.6450	16.64
188	Isopropyl acetate	43	5.280	5.284	(0.951)	110211	18.8302	18.83
150	Allyl alcohol	57	3.338	3.342	(0.694)	28275	290.288	290.28
194	Acetaldehyde	44	1.460	1.464	(0.304)	91616	157.966	157.96(Q)
200	Dimethyl Disulfide	94	6.742	6.746	(0.824)	17593	14.5705	14.57
133	Ethyl Acrylate	55	5.944	5.944	(1.235)	80967	16.4906	16.49
163	Butyl methacrylate	41	9.647	9.647	(0.949)	41472	21.1948	21.19(Q)
159	Propylene oxide	43	2.199	2.206	(0.457)	6936	38.7034	38.70(Q)
203	2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	44658	19.0238	19.02
204	Tetrahydrothiophene	60	7.668	7.668	(0.937)	38787	17.3102	17.31(A)
205	sec-Butyl Ether	57	7.214	7.214	(0.882)	42751	10.3839	10.38(A)
187	n-Amyl acetate	43	8.928	8.928	(1.091)	66789	20.4790	20.47

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240608.b\V060804.D
Date : 09-JUN-2024 08:33
Client ID: VLCSDW-240608
Sample Info: VLCSDW-240608;VLCSDW-240608;3;;LCSD
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

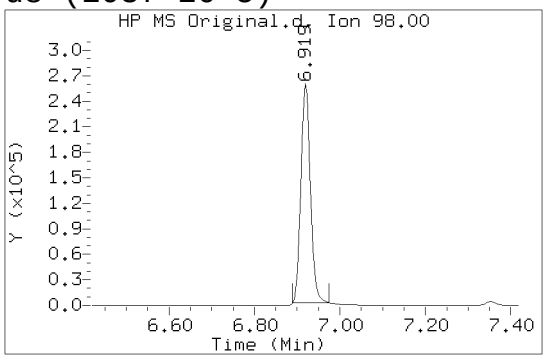
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240608.b\V060804.D
Inj Date : 09-JUN-2024 08:33
InstruID : VOA9.i
LabSampID : VLCSDW-240608

Toluene-d8 (2037-26-5)

Reason Code:

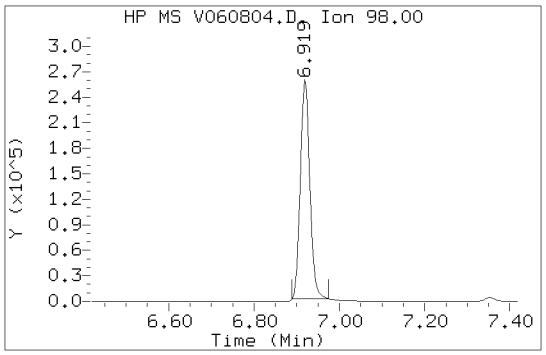
BEFORE

MASS
98
AREA
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HEIGHT
257633
22-Jun-2024
12:43
RUCHA
PATEL



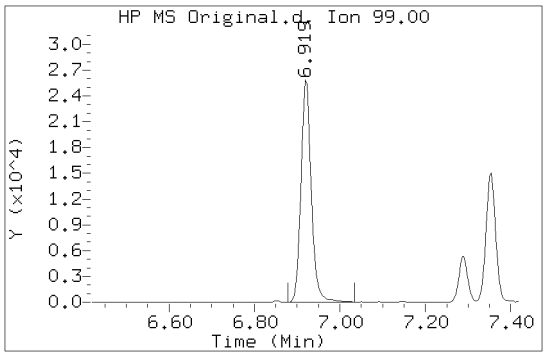
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22-Jun-2024
12:43
RUCHA
PATEL



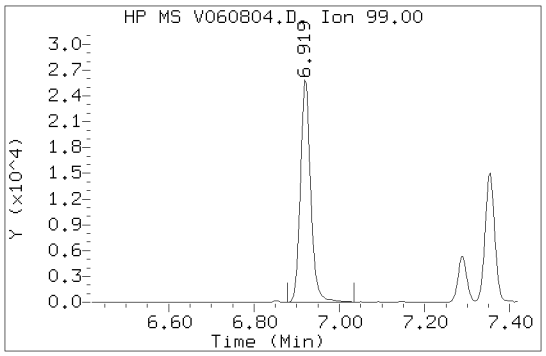
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HEIGHT
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12:43
RUCHA
PATEL



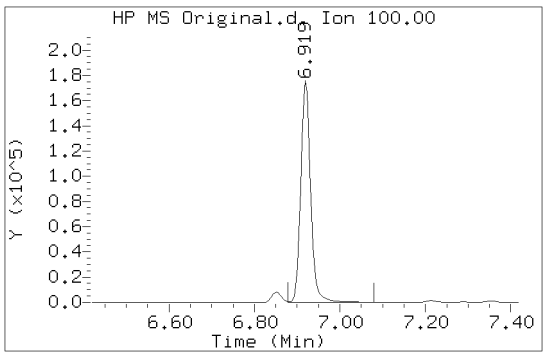
AFTER

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AREA
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HEIGHT
25864
22-Jun-2024
12:43
RUCHA
PATEL



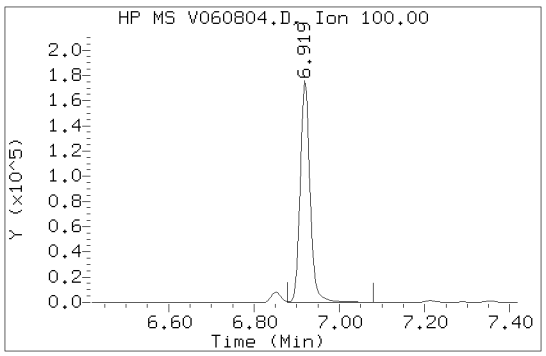
BEFORE

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HEIGHT
175757
22-Jun-2024
12:43
RUCHA
PATEL



AFTER

MASS
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HEIGHT
175757
22-Jun-2024
12:43
RUCHA
PATEL

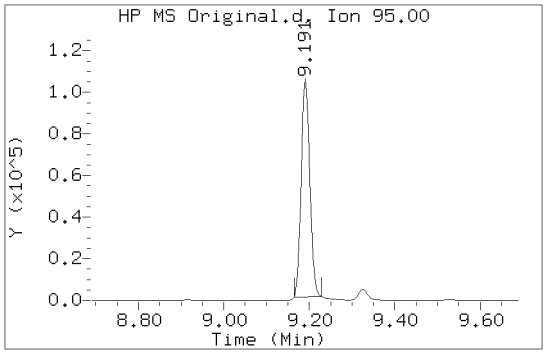


4-Bromofluorobenzene (460-00-4)

Reason Code: MPT

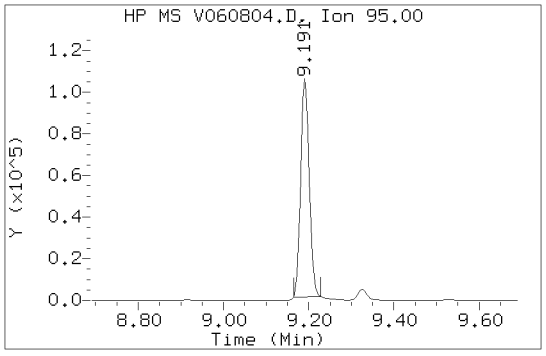
BEFORE

MASS
95
AREA
148637
HEIGHT
104761
22-Jun-2024
12:43
RUCHA
PATEL



AFTER

MASS
95
AREA
148637
HEIGHT
104761
22-Jun-2024
12:43
RUCHA
PATEL



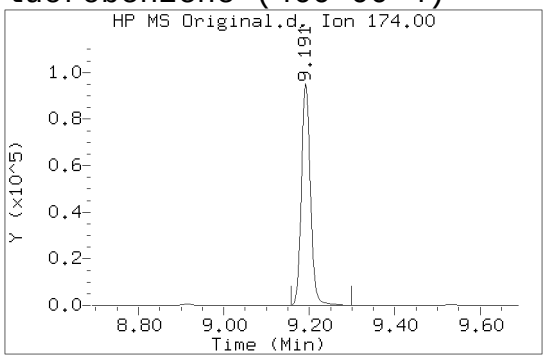
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240608.b\V060804.D
Inj Date : 09-JUN-2024 08:33
InstruID : VOA9.i
LabSampID : VLCSDW-240608

4-Bromofluorobenzene (460-00-4)

Reason Code: MPT

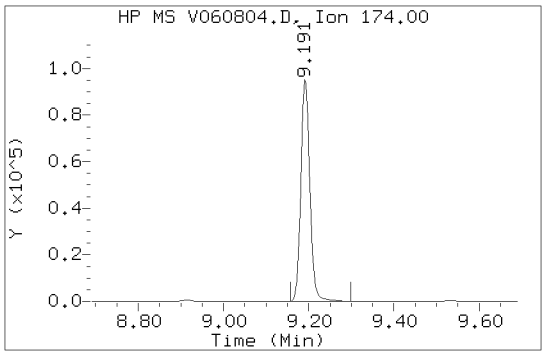
BEFORE

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AREA
142483
HEIGHT
95200
22-Jun-2024
12:43
RUCHA
PATEL



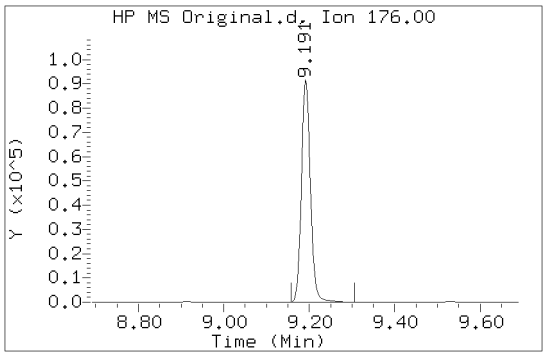
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HEIGHT
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22-Jun-2024
12:43
RUCHA
PATEL



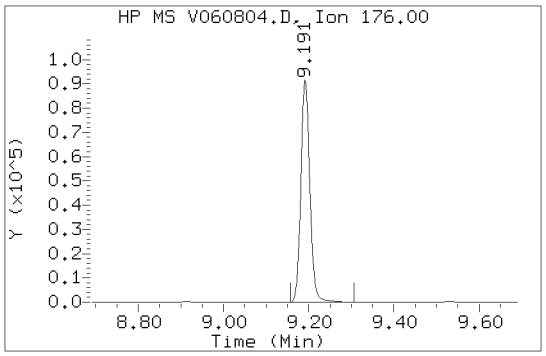
BEFORE

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176
AREA
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HEIGHT
91616
22-Jun-2024
12:43
RUCHA
PATEL



AFTER

MASS
176
AREA
136881
HEIGHT
91616
22-Jun-2024
12:43
RUCHA
PATEL



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240608.b\V060806.D Page 1
Report Date: 22-Jun-2024 12:44

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240608.b\V060806.D
Lab Smp Id: VBLKW-240608 Client Smp ID: VBLKW-240608
Inj Date : 09-JUN-2024 09:16
Operator : TS Inst ID: VOA9.i
Smp Info : VBLKW-240608;VBLKW-240608;3;;BLANK
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240608.b\8260C.m
Meth Date : 22-Jun-2024 12:44 VOA9.i Quant Type: ISTD
Cal Date : 08-JUN-2024 19:08 Cal File: C060811.D
Als bottle: 45 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

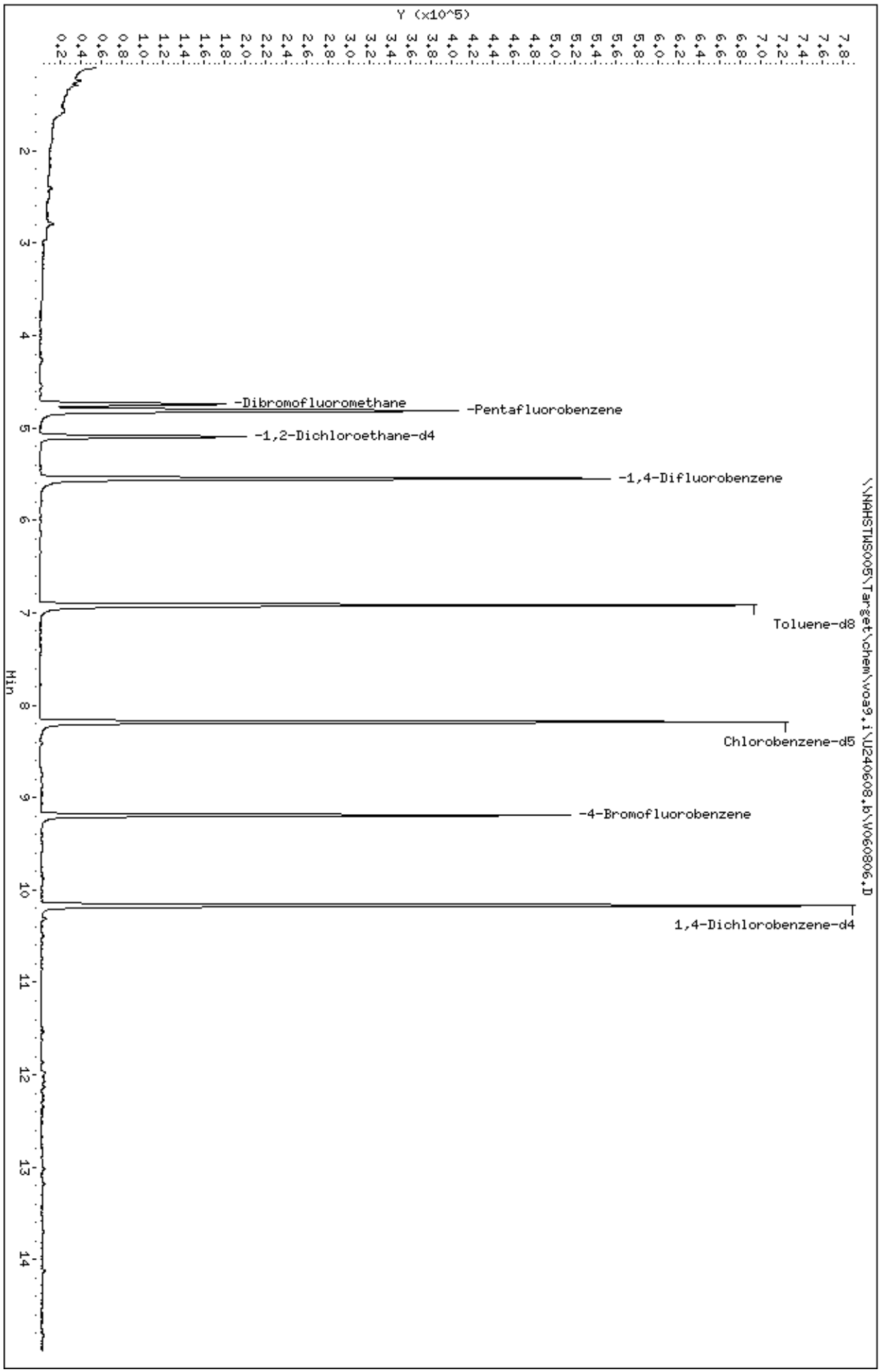
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.811	4.815	(1.000)	303197	50.0000	
$ 30 Dibromofluoromethane	113	4.744	4.748	(0.986)	106371	54.3673	54.36
$ 35 1,2-Dichloroethane-d4	65	5.093	5.096	(1.058)	131931	55.6537	55.65(Q)
* 36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	441167	50.0000	
* 47 Chlorobenzene-d5	117	8.182	8.182	(1.000)	393365	50.0000	
$ 48 Toluene-d8	98	6.918	6.918	(0.846)	408134	54.8139	54.81(M)
$ 69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	150508	54.8327	54.83(M)
* 70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	205066	50.0000	(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240608.b\V060806.D
Date : 09-JUN-2024 09:16
Client ID: VBLKW-240608
Sample Info: VBLKW-240608;VBLKW-240608;3;;BLANK
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

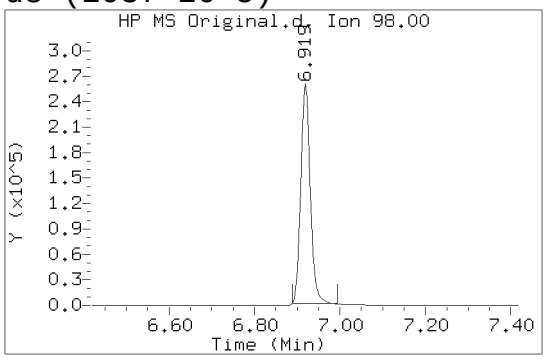


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240608.b\V060806.D
Inj Date : 09-JUN-2024 09:16
InstruID : VOA9.i
LabSampID : VBLKW-240608

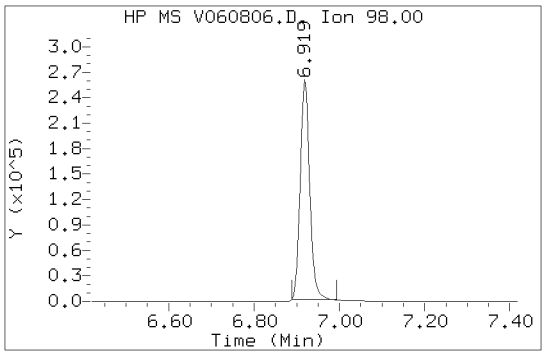
Toluene-d8 (2037-26-5)

Reason Code:

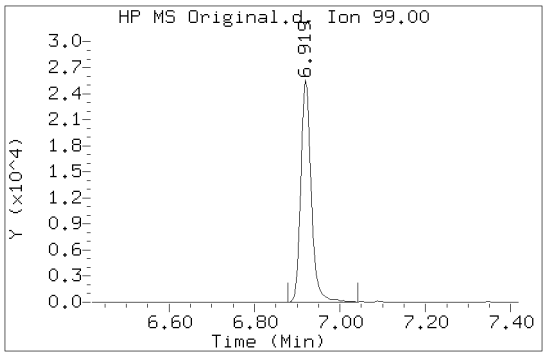
BEFORE
MASS
98
AREA
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HEIGHT
259125
22-Jun-2024
12:43
RUCHA
PATEL



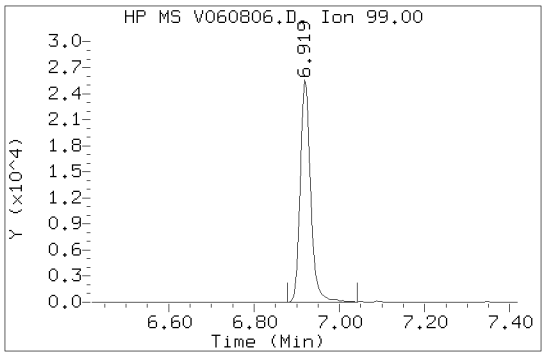
AFTER
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AREA
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HEIGHT
259125
22-Jun-2024
12:43
RUCHA
PATEL



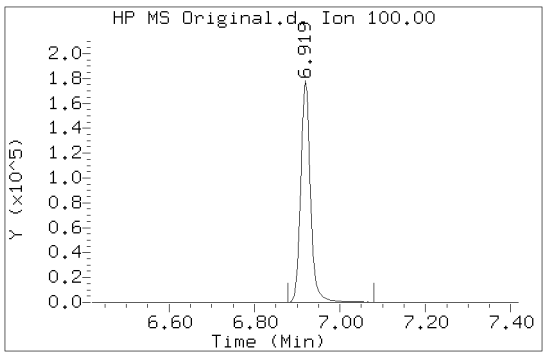
BEFORE
MASS
99
AREA
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HEIGHT
25584
22-Jun-2024
12:43
RUCHA
PATEL



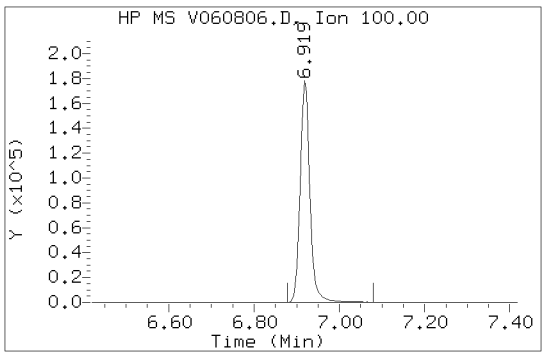
AFTER
MASS
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HEIGHT
25584
22-Jun-2024
12:43
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PATEL



BEFORE
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AREA
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HEIGHT
178240
22-Jun-2024
12:43
RUCHA
PATEL



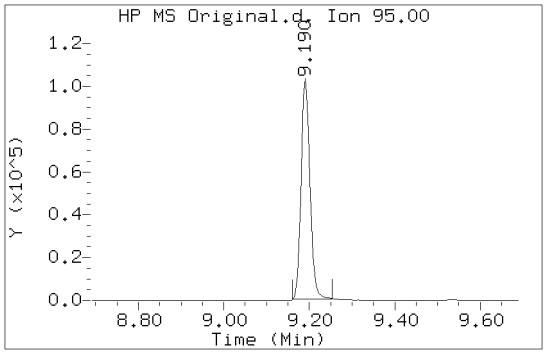
AFTER
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22-Jun-2024
12:43
RUCHA
PATEL



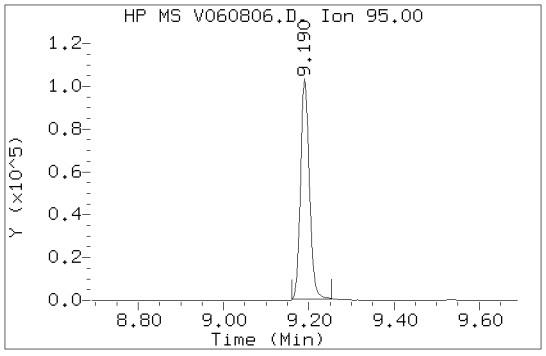
4-Bromofluorobenzene (460-00-4)

Reason Code:

BEFORE
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AREA
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HEIGHT
102874
22-Jun-2024
12:43
RUCHA
PATEL



AFTER
MASS
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HEIGHT
102874
22-Jun-2024
12:43
RUCHA
PATEL



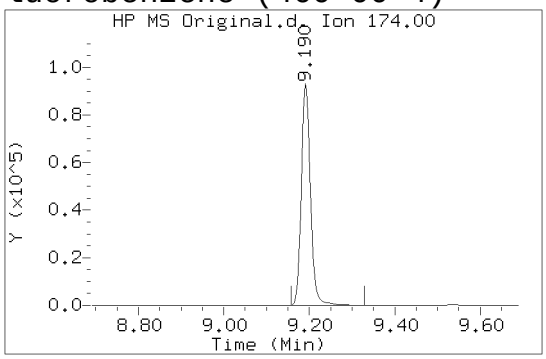
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240608.b\V060806.D
Inj Date : 09-JUN-2024 09:16
InstruID : VOA9.i
LabSampID : VBLKW-240608

4-Bromofluorobenzene (460-00-4)

Reason Code:

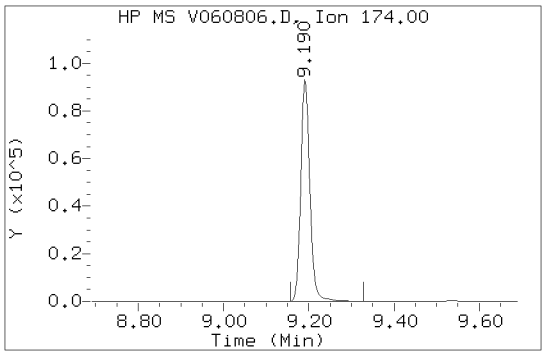
BEFORE

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HEIGHT
93128
22-Jun-2024
12:43
RUCHA
PATEL



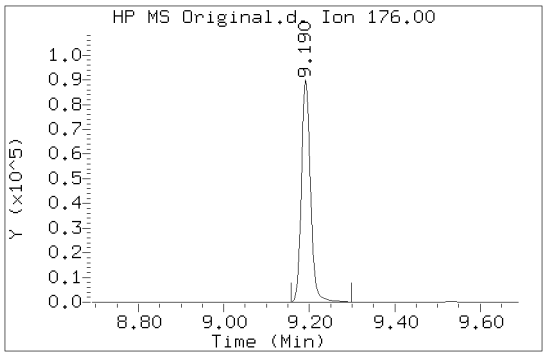
AFTER

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22-Jun-2024
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PATEL



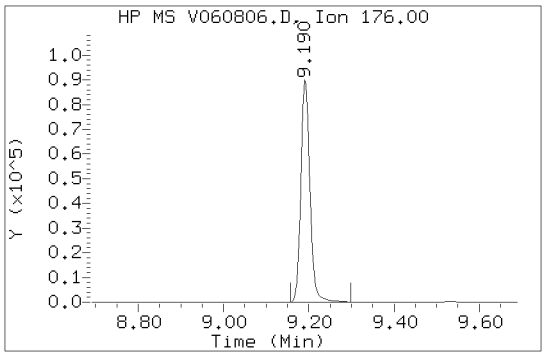
BEFORE

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90008
22-Jun-2024
12:43
RUCHA
PATEL



AFTER

MASS
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135921
HEIGHT
90008
22-Jun-2024
12:43
RUCHA
PATEL



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240608.b\V060808.D Page 1
Report Date: 22-Jun-2024 12:44

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240608.b\V060808.D
Lab Smp Id: HS24060349-12MS Client Smp ID: HS24060349-12MS
Inj Date : 09-JUN-2024 09:59
Operator : TS Inst ID: VOA9.i
Smp Info : HS24060349-12MS;HS24060349-12MS;3;;MS
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240608.b\8260C.m
Meth Date : 22-Jun-2024 12:44 VOA9.i Quant Type: ISTD
Cal Date : 08-JUN-2024 19:08 Cal File: C060811.D
Als bottle: 47 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.808	4.815	(1.000)	306893	50.0000	
2 Dichlorodifluoromethane	85	1.157	1.168	(0.241)	36099	18.4273	18.42
3 Chloromethane	50	1.288	1.299	(0.268)	84916	17.7705	17.77
4 Propionitrile	54	4.332	4.339	(0.901)	55313	182.937	182.93(aQ)
5 Vinyl Chloride	62	1.370	1.381	(0.285)	49790	18.9682	18.96(Q)
6 Bromomethane	94	1.599	1.610	(0.333)	24912	20.4990	20.49
7 Chloroethane	64	1.685	1.700	(0.351)	33338	19.0017	19.00
8 Trichlorofluoromethane	101	1.884	1.895	(0.392)	58501	19.3440	19.34(Q)
9 Acrolein	56	2.255	2.266	(0.469)	2769	27.1659	27.16
10 Acetone	43	2.401	2.412	(0.499)	29872	30.5120	30.51
11 1,1-Dichloroethene	96	2.322	2.334	(0.483)	34426	18.1198	18.11
12 Isobutyl Alcohol	43	5.280	5.284	(1.098)	100386	338.031	338.03(aQ)
13 Acetonitrile	39	2.660	2.675	(0.553)	37515	155.149	155.14(a)
14 Allyl Chloride	41	2.664	2.675	(0.554)	93577	16.3939	16.39(a)
15 Iodomethane	142	2.457	2.469	(0.511)	23344	38.5308	38.53(Q)
16 Acrylonitrile	53	3.057	3.068	(0.636)	28153	35.6163	35.61
17 Methylene Chloride	84	2.783	2.795	(0.579)	40562	18.5451	18.54
18 Methyl tert-butyl ether	73	3.072	3.083	(0.639)	91183	17.0147	17.01
19 Carbon Disulfide	76	2.510	2.521	(0.522)	192461	34.2060	34.20
20 trans-1,2-Dichloroethene	96	3.050	3.061	(0.634)	36898	19.1238	19.12(Q)

21 Vinyl Acetate	43	4.335	4.343 (0.902)	36007	31.9453	31.94
22 1,1-Dichloroethane	63	3.503	3.514 (0.729)	70367	18.8017	18.80(Q)

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240608.b\V060808.D Page 2
Report Date: 22-Jun-2024 12:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	23 Chloroprene	53	3.601	3.608	(0.749)	59810	17.7070	17.70
	24 2-Butanone	43	4.257	4.264	(0.885)	41140	36.2187	36.21
	25 Methacrylonitrile	41	4.489	4.493	(0.934)	22906	17.0997	17.09(a)
	26 2,2-Dichloropropane	77	4.174	4.182	(0.868)	36905	12.3403	12.34
	27 cis-1,2-Dichloroethene	96	4.189	4.197	(0.871)	44108	18.9908	18.99
	28 Chloroform	83	4.564	4.572	(0.949)	70351	18.6732	18.67
	29 Bromochloromethane	128	4.459	4.470	(0.927)	21325	18.6588	18.65
$	30 Dibromofluoromethane	113	4.740	4.748	(0.986)	108409	54.7455	54.74
	31 1,1,1-Trichloroethane	97	4.737	4.744	(0.985)	56587	18.5312	18.53
	32 1,1-Dichloropropene	75	4.913	4.920	(0.886)	54470	19.2711	19.27
	33 1,2-Dichloroethane	62	5.168	5.175	(0.932)	55750	18.3511	18.35
	34 Carbon Tetrachloride	117	4.905	4.913	(0.884)	42063	17.3131	17.31
$	35 1,2-Dichloroethane-d4	65	5.089	5.096	(1.058)	130726	54.4531	54.45(Q)
*	36 1,4-Difluorobenzene	114	5.546	5.550	(1.000)	441407	50.0000	
	37 Benzene	78	5.130	5.138	(0.925)	163384	19.1406	19.14(Q)
	38 Trichloroethene	130	5.782	5.786	(1.043)	41976	19.0799	19.07
	39 Bromodichloromethane	83	6.273	6.277	(1.131)	43765	16.4113	16.41
	40 Methyl Methacrylate	41	5.820	5.824	(1.211)	15687	19.9369	19.93(aQ)
	42 1,2-Dichloropropane	63	6.004	6.007	(1.082)	41577	17.9133	17.91(Q)
	43 2-Nitropropane	43	6.502	6.506	(1.352)	7782	16.3638	16.36
	44 Dibromomethane	93	6.112	6.116	(1.102)	24545	18.2535	18.25
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	81651	36.9124	36.91
	46 cis-1,3-Dichloropropene	75	6.686	6.690	(1.205)	52470	15.9228	15.92
*	47 Chlorobenzene-d5	117	8.182	8.182	(1.000)	396010	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.846)	435757	58.1972	58.19(Q)
	49 Ethyl Methacrylate	69	7.286	7.289	(1.314)	47403	17.3481	17.34(a)
	50 Toluene	91	6.978	6.978	(0.853)	168642	19.0801	19.08
	51 trans-1,3-Dichloropropene	75	7.192	7.196	(1.297)	41483	15.8256	15.82
	52 2-Hexanone	43	7.211	7.214	(0.881)	61583	41.4017	41.40(Q)
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	31685	18.4879	18.48
	54 1,3-Dichloropropane	76	7.496	7.496	(0.916)	67292	18.2968	18.29
	55 Dibromochloromethane	129	7.687	7.690	(0.940)	32716	17.0425	17.04
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	32574	18.2248	18.22
	57 1,2-Dibromoethane	107	7.780	7.784	(0.951)	35094	17.8171	17.81
	58 1-Chlorohexane	55	8.193	8.193	(1.477)	31690	17.6351	17.63
	59 Chlorobenzene	112	8.208	8.208	(1.003)	106467	18.6528	18.65
	60 1,1,1,2-Tetrachloroethane	131	8.279	8.283	(1.012)	34881	17.8370	17.83
	61 Ethylbenzene	106	8.302	8.305	(1.015)	55116	18.0554	18.05
	62 m,p-Xylenes	106	8.407	8.406	(1.027)	138898	36.6904	36.69
	63 o-Xylene	106	8.744	8.744	(1.069)	67021	18.1342	18.13
	64 Styrene	104	8.759	8.759	(1.071)	104905	17.7202	17.72
	66 Bromoform	173	8.916	8.916	(1.090)	18933	16.3597	16.35(Q)
	67 Isopropylbenzene	105	9.059	9.059	(1.107)	167010	18.8488	18.84
	68 1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	52201	19.1131	19.11
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	158776	57.5290	57.52
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	205924	50.0000	(Q)
	71 1,2,3-Trichloropropane	75	9.359	9.359	(0.920)	48932	17.4695	17.46
	72 trans-1,4-Dichloro-2-butene	53	9.374	9.374	(1.146)	9650	15.7992	15.79(a)
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	190428	19.0620	19.06
	74 Bromobenzene	156	9.314	9.314	(0.916)	45510	18.8156	18.81
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	128061	18.7694	18.76
	76 2-Chlorotoluene	91	9.479	9.479	(0.932)	118401	19.3344	19.33

77	4-Chlorotoluene	91	9.572	9.572 (0.941)	130999	17.2808	17.28
78	tert-Butylbenzene	119	9.835	9.835 (0.967)	116055	19.6283	19.62(Q)

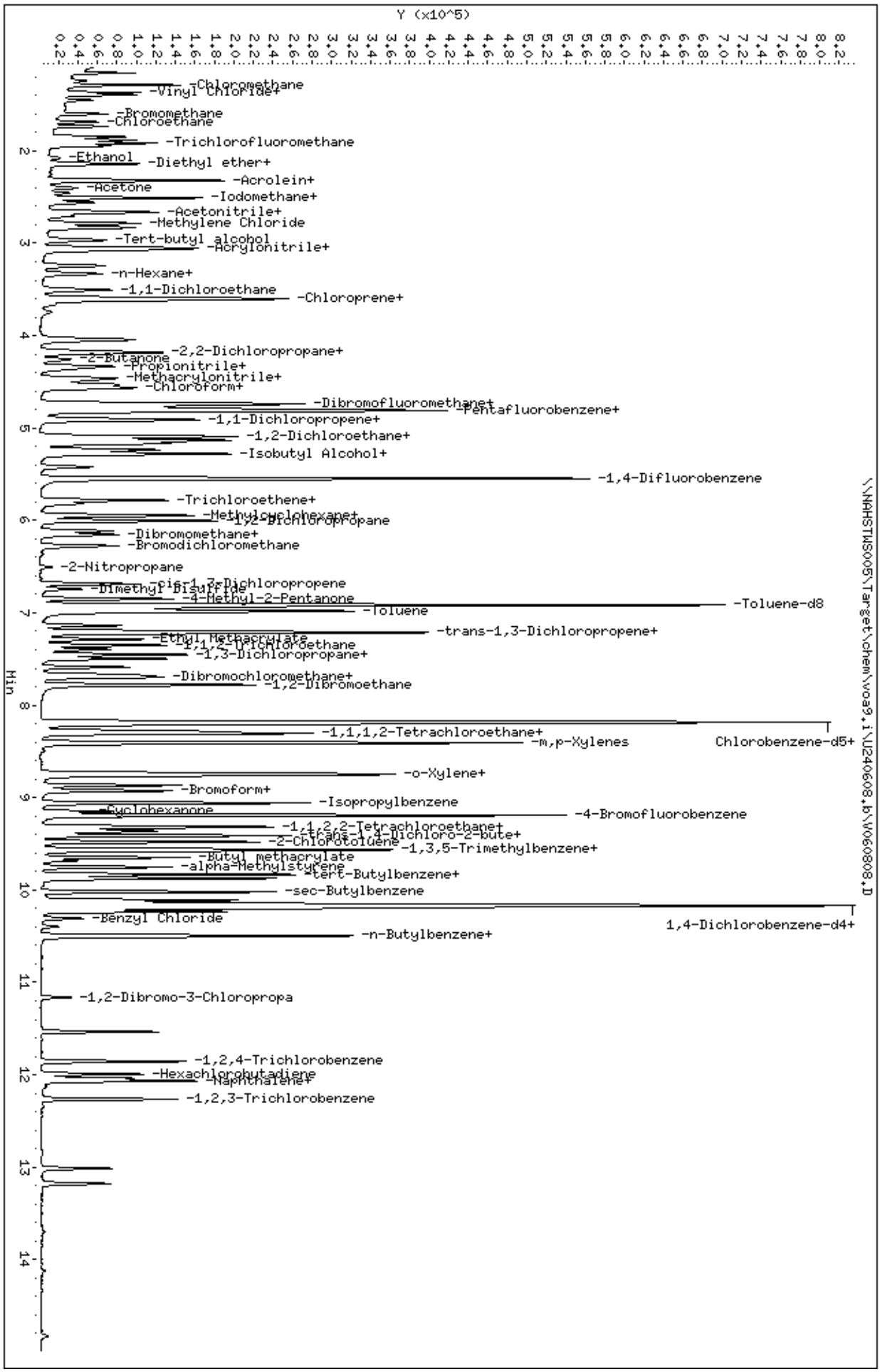
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	123970	17.6258	17.62
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	151993	19.0590	19.05
82	p-Isopropyltoluene	119	10.142	10.146	(0.997)	126024	18.3223	18.32
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	78083	18.3999	18.39
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	79888	17.8718	17.87
86	Benzyl Chloride	91	10.307	10.307	(1.260)	28526	10.5259	10.52(Q)
87	n-Butylbenzene	91	10.491	10.491	(1.032)	104045	16.5433	16.54
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	77446	18.4089	18.40
89	1,2-Dibromo-3-Chloropropane	155	11.166	11.165	(1.098)	5960	18.5408	18.54
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	45860	15.4920	15.49
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	18570	15.8241	15.82
92	Naphthalene	128	12.065	12.065	(1.187)	111825	17.8776	17.87
93	1,2,3-Trichlorobenzene	180	12.268	12.264	(1.206)	42433	17.1894	17.18
146	Methyl acetate	43	2.705	2.716	(0.563)	28028	15.7542	15.75
138	Freon TF	101	2.322	2.337	(0.483)	32264	18.4786	18.47
141	Cyclohexane	56	4.774	4.781	(0.993)	58881	19.7757	19.77(Q)
142	Tetrahydrofuran	42	4.538	4.545	(0.944)	13885	32.6181	32.61
147	Methylcyclohexane	55	5.944	5.944	(1.072)	80036	16.0361	16.03
135	1,4-Dioxane	88	6.165	6.165	(1.282)	10125	426.713	426.71
132	n-Butanol	56	5.820	5.824	(1.211)	22506	406.973	406.97(a)
136	n-Hexane	57	3.331	3.342	(0.693)	30539	15.3918	15.39(Q)
139	Diethyl ether	59	2.135	2.150	(0.444)	25948	16.5575	16.55(Q)
148	Tert-butyl alcohol	59	2.963	2.978	(0.616)	74159	418.113	418.11
149	Isopropyl alcohol	45	2.559	2.574	(0.532)	55832	402.636	402.63(Q)
156	Diisopropyl ether	45	3.612	3.623	(0.751)	110382	16.0829	16.08
162	Butyl acrylate	55	8.729	8.729	(1.067)	61254	17.6511	17.65(Q)
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	152574	16.2175	16.21(Q)
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	97210	15.7269	15.72
167	Ethanol	45	2.079	2.090	(0.432)	10930	413.297	413.29(Q)
172	tert-Butyl formate	59	5.235	5.243	(1.089)	73468	43.9686	43.96
151	4-Methyl-2-pentanol	45	7.211	7.214	(1.300)	218006	377.657	377.65
140	1,3-Butadiene	54	1.393	1.408	(0.290)	20468	17.5854	17.58
M 94	1,2-Dichloroethylene (total)	96				81006	37.8630	37.86
M 95	Xylenes (total)	106				205919	54.8126	54.81
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	37723	13.7326	13.73
131	Methyl Acrylate	55	4.362	4.369	(0.907)	42055	17.1981	17.19
189	n-Butyl acetate	43	7.702	7.702	(0.941)	52397	15.8823	15.88
134	Cyclohexanone	55	9.149	9.149	(0.900)	28430	267.706	267.70(aQ)
185	Isoprene	39	2.142	2.157	(0.446)	8321	16.5406	16.54
188	Isopropyl acetate	43	5.280	5.284	(0.952)	100386	16.9446	16.94
150	Allyl alcohol	57	3.331	3.342	(0.693)	30539	307.836	307.83
200	Dimethyl Disulfide	94	6.738	6.746	(0.824)	15687	13.0175	13.01(Q)
133	Ethyl Acrylate	55	5.944	5.944	(1.236)	80036	16.0096	16.00
163	Butyl methacrylate	41	9.647	9.647	(0.949)	39191	20.1162	20.11(Q)
203	2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	32543	14.2309	14.23
204	Tetrahydrothiophene	60	7.668	7.668	(0.937)	37176	16.4114	16.41(A)
205	sec-Butyl Ether	57	7.214	7.214	(0.882)	45355	10.8943	10.89(A)
187	n-Amyl acetate	43	8.928	8.928	(1.091)	54311	16.3446	16.34

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.

QC Flag Legend

Q - Qualifier signal failed the ratio test.



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240608.b\V060808.D
Date : 09-JUN-2024 09:59
Client ID: HS24060349-12MS
Sample Info: HS24060349-12MS;HS24060349-12MS;3;;MS
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240608.b\V060808.D
Inj Date : 09-JUN-2024 09:59
InstruID : VOA9.i
LabSampID : HS24060349-12MS

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240608.b\V060809.D Page 1
Report Date: 22-Jun-2024 12:44

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240608.b\V060809.D
Lab Smp Id: HS24060349-12MSD Client Smp ID: HS24060349-12MSD
Inj Date : 09-JUN-2024 10:21
Operator : TS Inst ID: VOA9.i
Smp Info : HS24060349-12MSD;HS24060349-12MSD;3;;MSD
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240608.b\8260C.m
Meth Date : 22-Jun-2024 12:44 VOA9.i Quant Type: ISTD
Cal Date : 08-JUN-2024 19:08 Cal File: C060811.D
Als bottle: 47 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1	Pentafluorobenzene	168	4.815	4.815	(1.000)	309873	50.0000	
2	Dichlorodifluoromethane	85	1.168	1.168	(0.243)	35555	17.9675	17.96
3	Chloromethane	50	1.299	1.299	(0.270)	82035	16.9475	16.94
4	Propionitrile	54	4.339	4.339	(0.901)	53807	175.949	175.94(aQ)
5	Vinyl Chloride	62	1.381	1.381	(0.287)	47896	18.0443	18.04
6	Bromomethane	94	1.614	1.610	(0.335)	23673	19.1996	19.19
7	Chloroethane	64	1.700	1.700	(0.353)	31871	17.9559	17.95
8	Trichlorofluoromethane	101	1.895	1.895	(0.394)	55909	18.3092	18.30(Q)
9	Acrolein	56	2.266	2.266	(0.471)	2801	27.2200	27.21
10	Acetone	43	2.412	2.412	(0.501)	28757	28.8564	28.85
11	1,1-Dichloroethene	96	2.333	2.334	(0.485)	33299	17.3580	17.35
12	Isobutyl Alcohol	43	5.284	5.284	(1.097)	98525	328.157	328.15(aQ)
13	Acetonitrile	39	2.675	2.675	(0.555)	36367	148.819	148.81(a)
14	Allyl Chloride	41	2.675	2.675	(0.555)	90170	15.6188	15.61(a)
15	Iodomethane	142	2.468	2.469	(0.513)	24059	39.2925	39.29(Q)
16	Acrylonitrile	53	3.068	3.068	(0.637)	27119	33.8736	33.87
17	Methylene Chloride	84	2.795	2.795	(0.580)	39019	17.6026	17.60
18	Methyl tert-butyl ether	73	3.083	3.083	(0.640)	88434	16.3138	16.31
19	Carbon Disulfide	76	2.521	2.521	(0.524)	187273	32.9638	32.96
20	trans-1,2-Dichloroethene	96	3.057	3.061	(0.635)	35328	18.0996	18.09(Q)

21 Vinyl Acetate	43	4.339	4.343 (0.901)	34743	30.4684	30.46(Q)
22 1,1-Dichloroethane	63	3.514	3.514 (0.730)	67703	17.8831	17.88(Q)

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240608.b\V060809.D Page 2
Report Date: 22-Jun-2024 12:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	23 Chloroprene	53	3.608	3.608	(0.749)	57922	16.9831	16.98
	24 2-Butanone	43	4.264	4.264	(0.886)	39840	34.6187	34.61
	25 Methacrylonitrile	41	4.496	4.493	(0.934)	20726	15.2613	15.26(aQ)
	26 2,2-Dichloropropane	77	4.182	4.182	(0.868)	35564	11.7775	11.77
	27 cis-1,2-Dichloroethene	96	4.197	4.197	(0.872)	42322	18.0141	18.01
	28 Chloroform	83	4.571	4.572	(0.949)	68375	17.9506	17.95
	29 Bromochloromethane	128	4.470	4.470	(0.928)	20496	17.7290	17.72
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	109845	54.9392	54.93
	31 1,1,1-Trichloroethane	97	4.740	4.744	(0.984)	54187	17.5746	17.57
	32 1,1-Dichloropropene	75	4.920	4.920	(0.887)	52828	18.3742	18.37
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	54173	17.4950	17.49
	34 Carbon Tetrachloride	117	4.909	4.913	(0.885)	41359	16.7380	16.73
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	130593	53.8604	53.86(Q)
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	448932	50.0000	
	37 Benzene	78	5.137	5.138	(0.926)	159049	18.3007	18.30(Q)
	38 Trichloroethene	130	5.786	5.786	(1.043)	40966	18.3075	18.30
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	42811	15.7845	15.78
	40 Methyl Methacrylate	41	5.823	5.824	(1.209)	15745	19.8148	19.81(aQ)
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	41189	17.4387	17.43
	43 2-Nitropropane	43	6.506	6.506	(1.351)	7592	15.8390	15.83(Q)
	44 Dibromomethane	93	6.116	6.116	(1.102)	23890	17.4533	17.45
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	80380	36.4276	36.42
	46 cis-1,3-Dichloropropene	75	6.689	6.690	(1.205)	49706	14.8312	14.83
*	47 Chlorobenzene-d5	117	8.181	8.182	(1.000)	395045	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.846)	433295	58.0062	58.00(Q)
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	47171	16.9802	16.98(a)
	50 Toluene	91	6.978	6.978	(0.853)	164078	18.6024	18.60
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	40260	15.1016	15.10
	52 2-Hexanone	43	7.214	7.214	(0.882)	58202	39.0479	39.04(Q)
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	31007	18.1270	18.12
	54 1,3-Dichloropropane	76	7.495	7.496	(0.916)	66197	18.0379	18.03
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	32187	16.8079	16.80
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	31863	17.8706	17.87
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	34971	17.7981	17.79
	58 1-Chlorohexane	55	8.193	8.193	(1.476)	31640	17.2759	17.27
	59 Chlorobenzene	112	8.208	8.208	(1.003)	103840	18.2259	18.22
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	33594	17.2455	17.24
	61 Ethylbenzene	106	8.305	8.305	(1.015)	54100	17.7659	17.76
	62 m,p-Xylenes	106	8.406	8.406	(1.027)	135796	35.9586	35.95
	63 o-Xylene	106	8.744	8.744	(1.069)	65614	17.7969	17.79
	64 Styrene	104	8.759	8.759	(1.071)	102176	17.3013	17.30
	66 Bromoform	173	8.916	8.916	(1.090)	18359	15.9405	15.94(Q)
	67 Isopropylbenzene	105	9.059	9.059	(1.107)	164422	18.6020	18.60
	68 1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	50503	18.1354	18.13
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	161910	58.8415	58.84
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	209660	50.0000	(Q)
	71 1,2,3-Trichloropropane	75	9.359	9.359	(0.920)	47960	16.7960	16.79
	72 trans-1,4-Dichloro-2-butene	53	9.374	9.374	(1.146)	9301	15.2489	15.24(a)
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	183963	18.0867	18.08
	74 Bromobenzene	156	9.314	9.314	(0.916)	44567	18.0890	18.08
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	125762	18.1209	18.12
	76 2-Chlorotoluene	91	9.482	9.479	(0.933)	115679	18.5476	18.54

77	4-Chlorotoluene	91	9.572	9.572 (0.941)	129394	16.7649	16.76
78	tert-Butylbenzene	119	9.835	9.835 (0.967)	113528	18.8587	18.85(Q)

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240608.b\V060809.D Page 3
Report Date: 22-Jun-2024 12:44

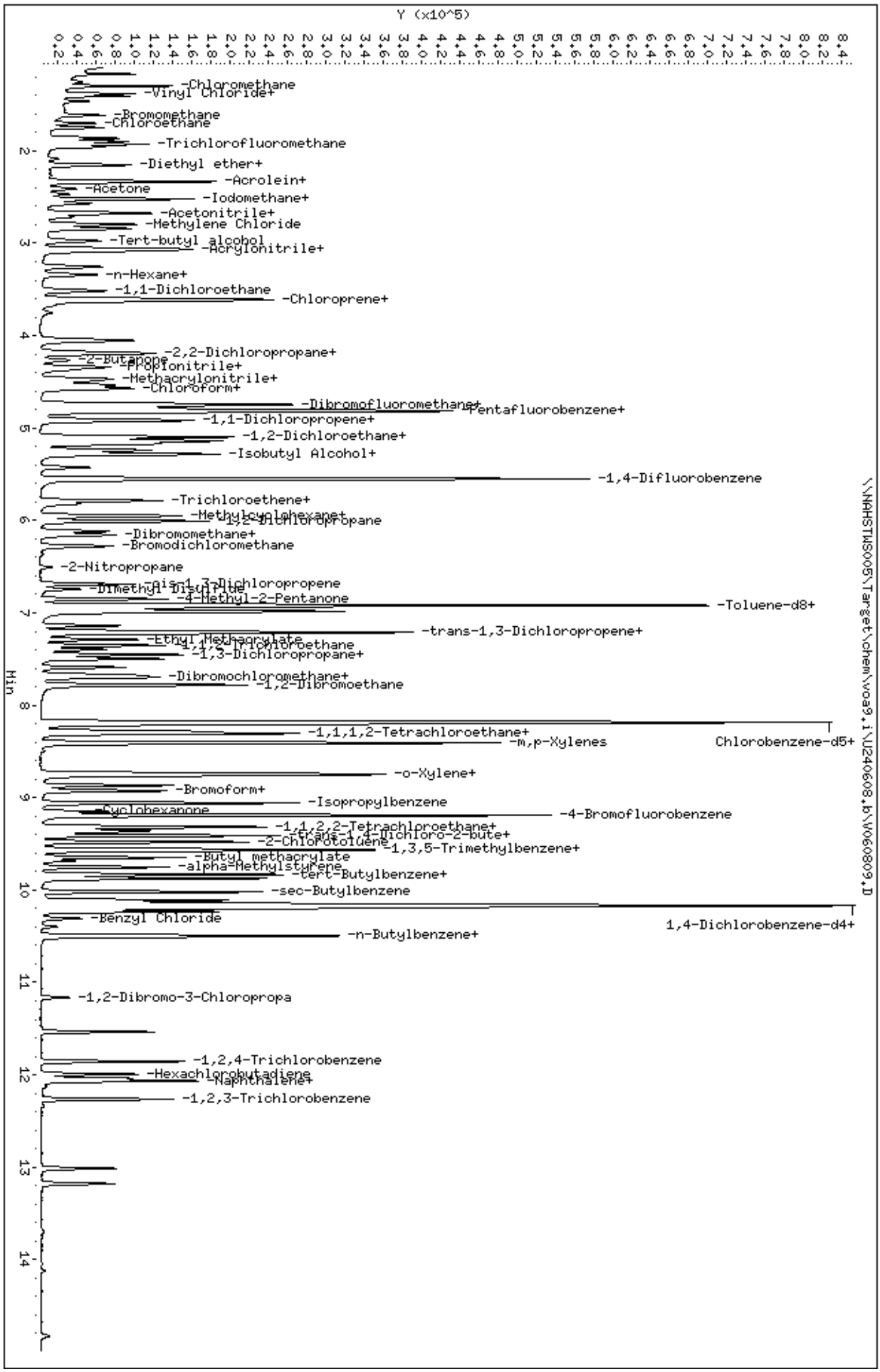
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	122210	17.0659	17.06
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	146825	18.0829	18.08
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	123640	17.6554	17.65
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	75907	17.5436	17.54
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	80122	17.5984	17.59
86	Benzyl Chloride	91	10.307	10.307	(1.260)	27951	10.3299	10.32(Q)
87	n-Butylbenzene	91	10.491	10.491	(1.032)	102504	16.0078	16.00
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	76924	17.9487	17.94
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	5810	17.7763	17.77
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	45125	14.9721	14.97
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	18581	15.5562	15.55
92	Naphthalene	128	12.065	12.065	(1.187)	113734	17.8590	17.85
93	1,2,3-Trichlorobenzene	180	12.267	12.264	(1.206)	41872	16.6563	16.65
146	Methyl acetate	43	2.716	2.716	(0.564)	26741	14.8246	14.82
138	Freon TF	101	2.333	2.337	(0.485)	31474	17.8528	17.85
141	Cyclohexane	56	4.781	4.781	(0.993)	57137	18.9206	18.92(Q)
142	Tetrahydrofuran	42	4.541	4.545	(0.943)	13024	30.0868	30.08
147	Methylcyclohexane	55	5.943	5.944	(1.071)	78241	15.4303	15.43
135	1,4-Dioxane	88	6.165	6.165	(1.280)	9845	409.432	409.43
132	n-Butanol	56	5.823	5.824	(1.209)	21597	386.799	386.79(a)
136	n-Hexane	57	3.342	3.342	(0.694)	28524	14.2380	14.23(Q)
139	Diethyl ether	59	2.146	2.150	(0.446)	25135	15.8511	15.85(Q)
148	Tert-butyl alcohol	59	2.974	2.978	(0.618)	71268	396.591	396.59
149	Isopropyl alcohol	45	2.570	2.574	(0.534)	53908	383.824	383.82(Q)
156	Diisopropyl ether	45	3.623	3.623	(0.752)	107413	15.4813	15.48
162	Butyl acrylate	55	8.732	8.729	(1.067)	60590	17.5023	17.50(Q)
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	148556	15.4898	15.48(Q)
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	95772	15.2308	15.23
167	Ethanol	45	2.090	2.090	(0.434)	10396	388.318	388.31(Q)
172	tert-Butyl formate	59	5.239	5.243	(1.088)	68432	40.3846	40.38
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	210941	359.471	359.47
140	1,3-Butadiene	54	1.404	1.408	(0.292)	19999	17.0172	17.01
M 94	1,2-Dichloroethylene (total)	96				77650	35.9132	35.91
M 95	Xylenes (total)	106				201410	52.7138	52.71
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	37526	13.4175	13.41
131	Methyl Acrylate	55	4.369	4.369	(0.907)	41823	16.9376	16.93
189	n-Butyl acetate	43	7.702	7.702	(0.941)	50801	15.4371	15.43
134	Cyclohexanone	55	9.152	9.149	(0.900)	27916	258.387	258.38(aQ)
185	Isoprene	39	2.157	2.157	(0.448)	8405	16.5469	16.54
188	Isopropyl acetate	43	5.284	5.284	(0.952)	99404	16.4826	16.48
150	Allyl alcohol	57	3.342	3.342	(0.694)	28524	284.760	284.75
200	Dimethyl Disulfide	94	6.742	6.746	(0.824)	16290	13.4936	13.49
133	Ethyl Acrylate	55	5.943	5.944	(1.234)	78241	15.5052	15.50
163	Butyl methacrylate	41	9.647	9.647	(0.949)	38750	19.4674	19.46(Q)
203	2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	33124	14.2270	14.22
204	Tetrahydrothiophene	60	7.672	7.668	(0.938)	37006	16.3764	16.37(A)
205	sec-Butyl Ether	57	7.214	7.214	(0.882)	44509	10.7172	10.71(A)
187	n-Amyl acetate	43	8.927	8.928	(1.091)	53946	16.2715	16.27(Q)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.

QC Flag Legend

Q - Qualifier signal failed the ratio test.



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240608.b\V060809.D
Date : 09-JUN-2024 10:21
Client ID: HS24060349-12MSD
Sample Info: HS24060349-12MSD;HS24060349-12MSD;3;;MSD
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240608.b\V060809.D
Inj Date : 09-JUN-2024 10:21
InstruID : VOA9.i
LabSampID : HS24060349-12MSD

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240608.b\V060822.D Page 1
Report Date: 22-Jun-2024 12:44

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240608.b\V060822.D
Lab Smp Id: HS24051959-05
Inj Date : 09-JUN-2024 15:28
Operator : TS   Inst ID: VOA9.i
Smp Info : HS24051959-05
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240608.b\8260C.m
Meth Date : 22-Jun-2024 12:44 VOA9.i   Quant Type: ISTD
Cal Date : 08-JUN-2024 19:08   Cal File: C060811.D
Als bottle: 60
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
*	1 Pentafluorobenzene	168	4.815	4.815	(1.000)	289388	50.0000	
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	102268	54.7685	54.76
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	129025	57.0577	57.05(Q)
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	424667	50.0000	
	38 Trichloroethene	130	5.786	5.786	(1.043)	436381	206.466	206.46(A)
*	47 Chlorobenzene-d5	117	8.182	8.182	(1.000)	378632	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.846)	407833	56.9449	56.94(Q)
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	880772	515.400	515.39(A)
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	147432	55.8277	55.82
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	195448	50.0000	(Q)

QC Flag Legend

A - Target compound detected but, quantitated amount
    exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240608.b\V060822.D

Date : 09-JUN-2024 15:28

Client ID:

Instrument: VOA9.i

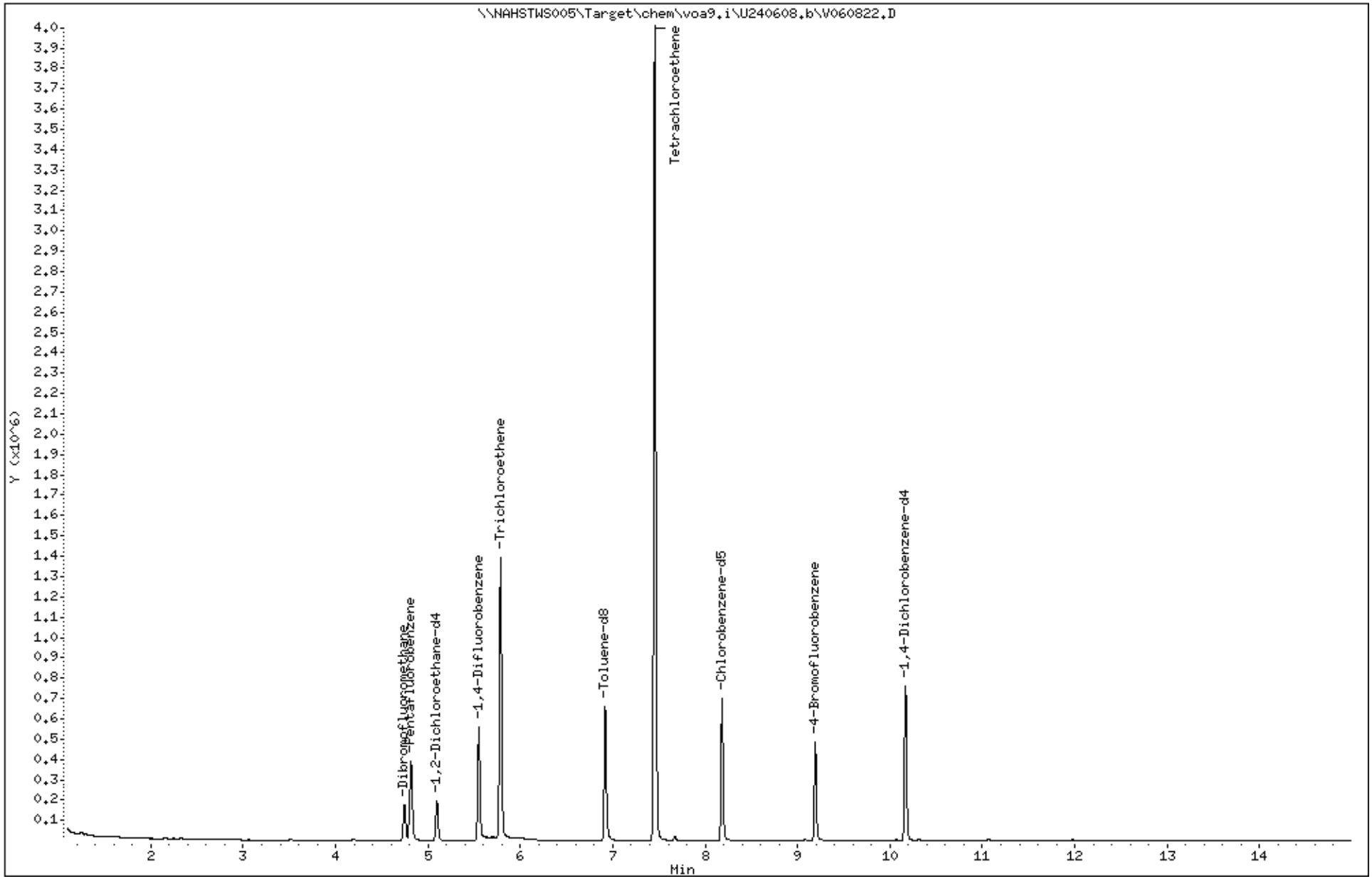
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Purge Volume: 5.0

Operator: TS

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240608.b\V060822.D

Date : 09-JUN-2024 15:28

Client ID:

Instrument: VOA9.i

Sample Info: HS24051959-05

Purge Volume: 5.0

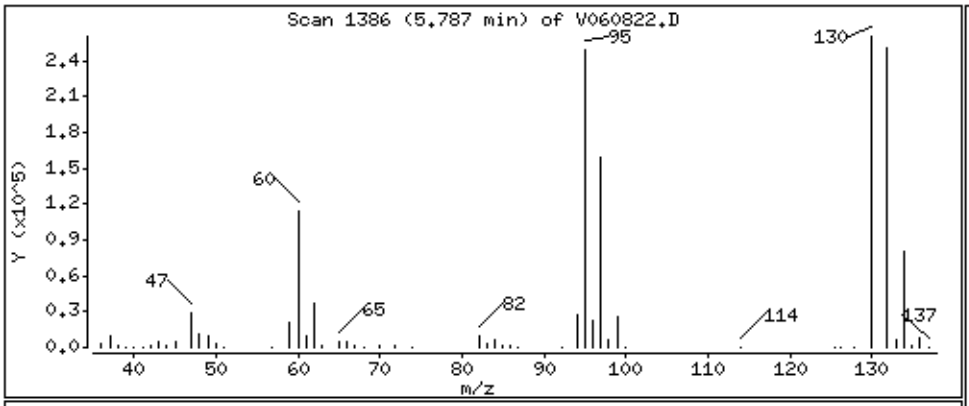
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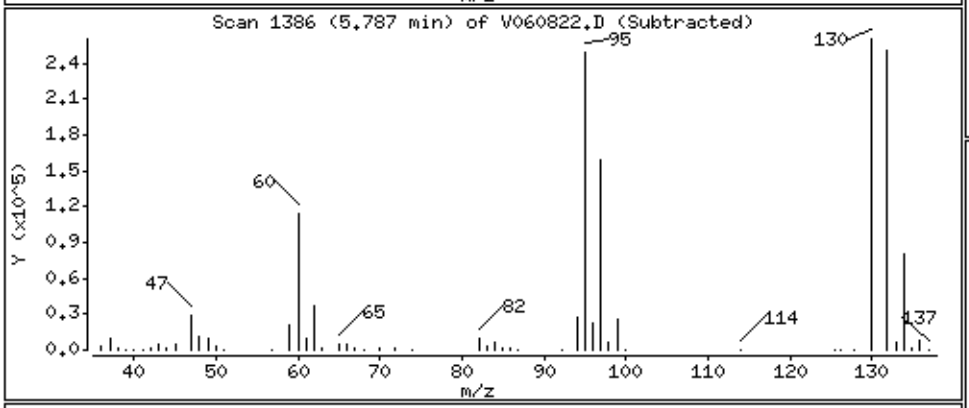
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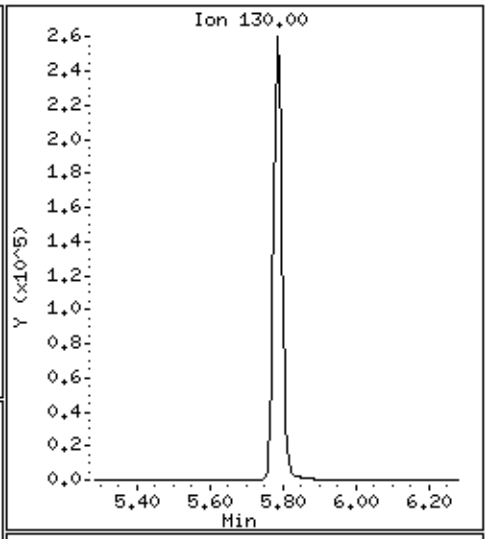
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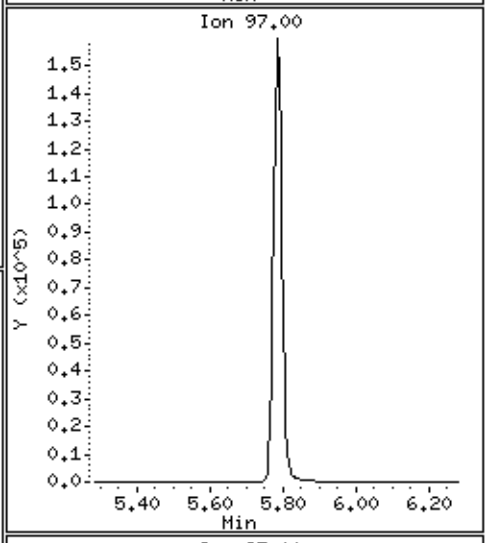
38 Trichloroethene

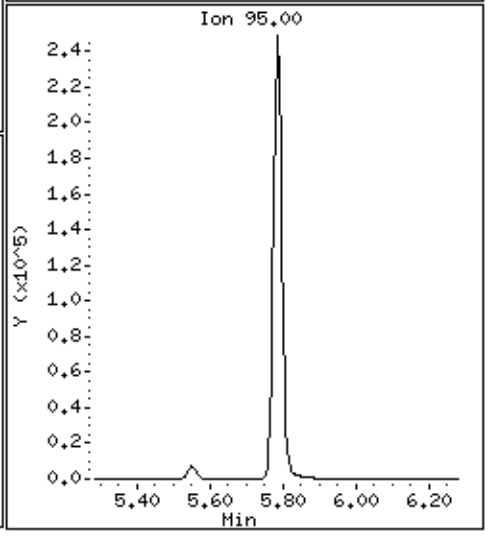
Concentration: 206.46 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240608.b\V060822.D

Date : 09-JUN-2024 15:28

Client ID:

Instrument: VOA9.i

Sample Info: HS24051959-05

Purge Volume: 5.0

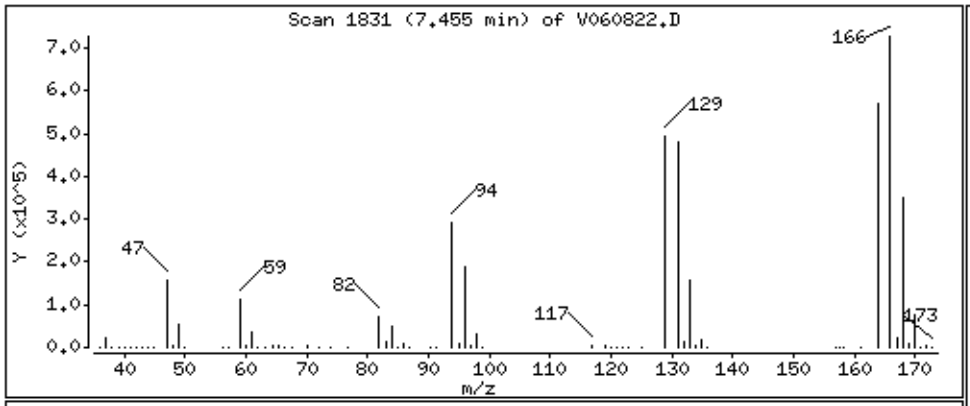
Operator: TS

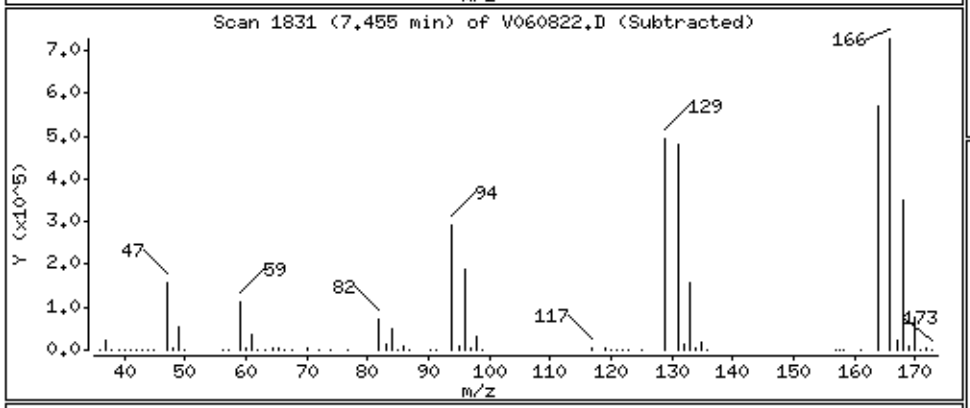
Column phase: DB624

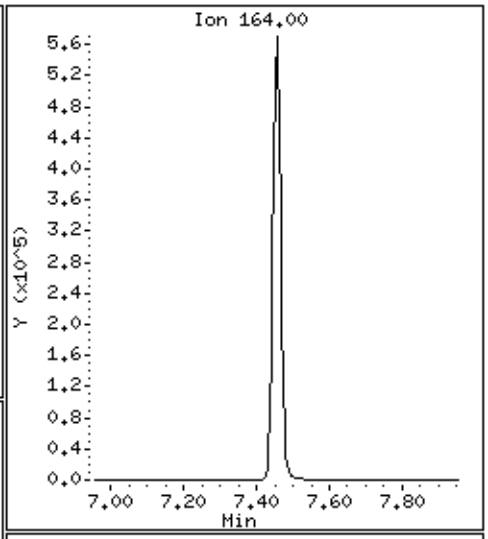
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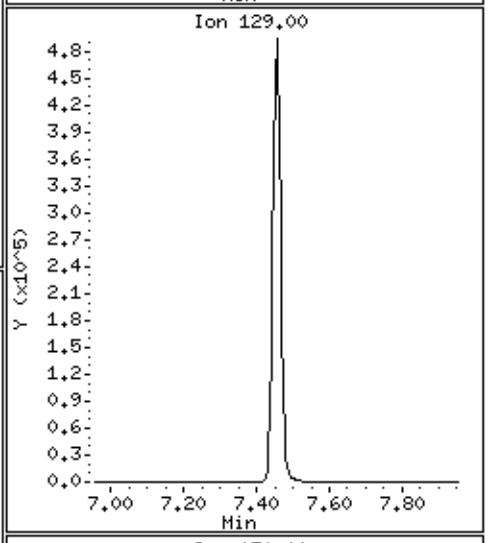
56 Tetrachloroethene

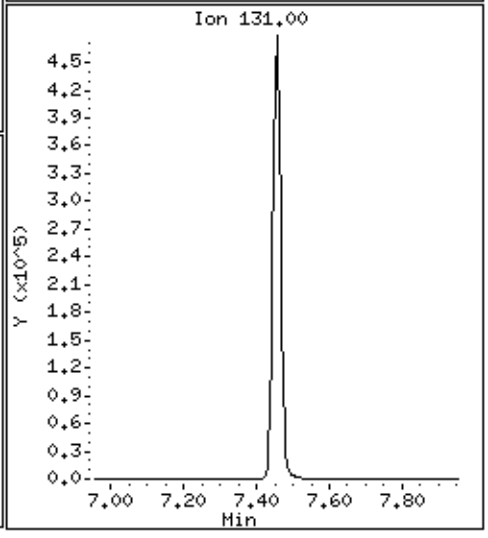
Concentration: 515.39 ug/l











Data File : \\NAHSTWS005\Target\chem\voa9.i\U240608.b\V060822.D
Inj Date : 09-JUN-2024 15:28
InstruID : VOA9.i
LabSampID : HS24051959-05

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240608.b\V060823.D Page 1
Report Date: 22-Jun-2024 12:44

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240608.b\V060823.D
Lab Smp Id: HS24051959-06
Inj Date : 09-JUN-2024 15:49
Operator : TS   Inst ID: VOA9.i
Smp Info : HS24051959-06
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240608.b\8260C.m
Meth Date : 22-Jun-2024 12:44 VOA9.i   Quant Type: ISTD
Cal Date : 08-JUN-2024 19:08   Cal File: C060811.D
Als bottle: 61
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
*	1 Pentafluorobenzene	168	4.812	4.815	(1.000)	286038	50.0000	
	27 cis-1,2-Dichloroethene	96	4.189	4.197	(0.871)	3829	1.13307	1.13
$	30 Dibromofluoromethane	113	4.744	4.748	(0.986)	102871	55.7466	55.74
$	35 1,2-Dichloroethane-d4	65	5.093	5.096	(1.058)	127032	56.8291	56.82(Q)
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	418266	50.0000	
	38 Trichloroethene	130	5.782	5.786	(1.042)	445574	214.043	214.04(AH)
*	47 Chlorobenzene-d5	117	8.182	8.182	(1.000)	372112	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.846)	395024	56.1075	56.10(M)
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	913598	543.976	543.97(A)
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	146736	56.5565	56.55
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	190854	50.0000	(Q)
M	94 1,2-Dichloroethylene (total)	96				3829	1.31927	1.31(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
    exceeded maximum amount.

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240608.b\V060823.D

Date : 09-JUN-2024 15:49

Client ID:

Instrument: VOA9.i

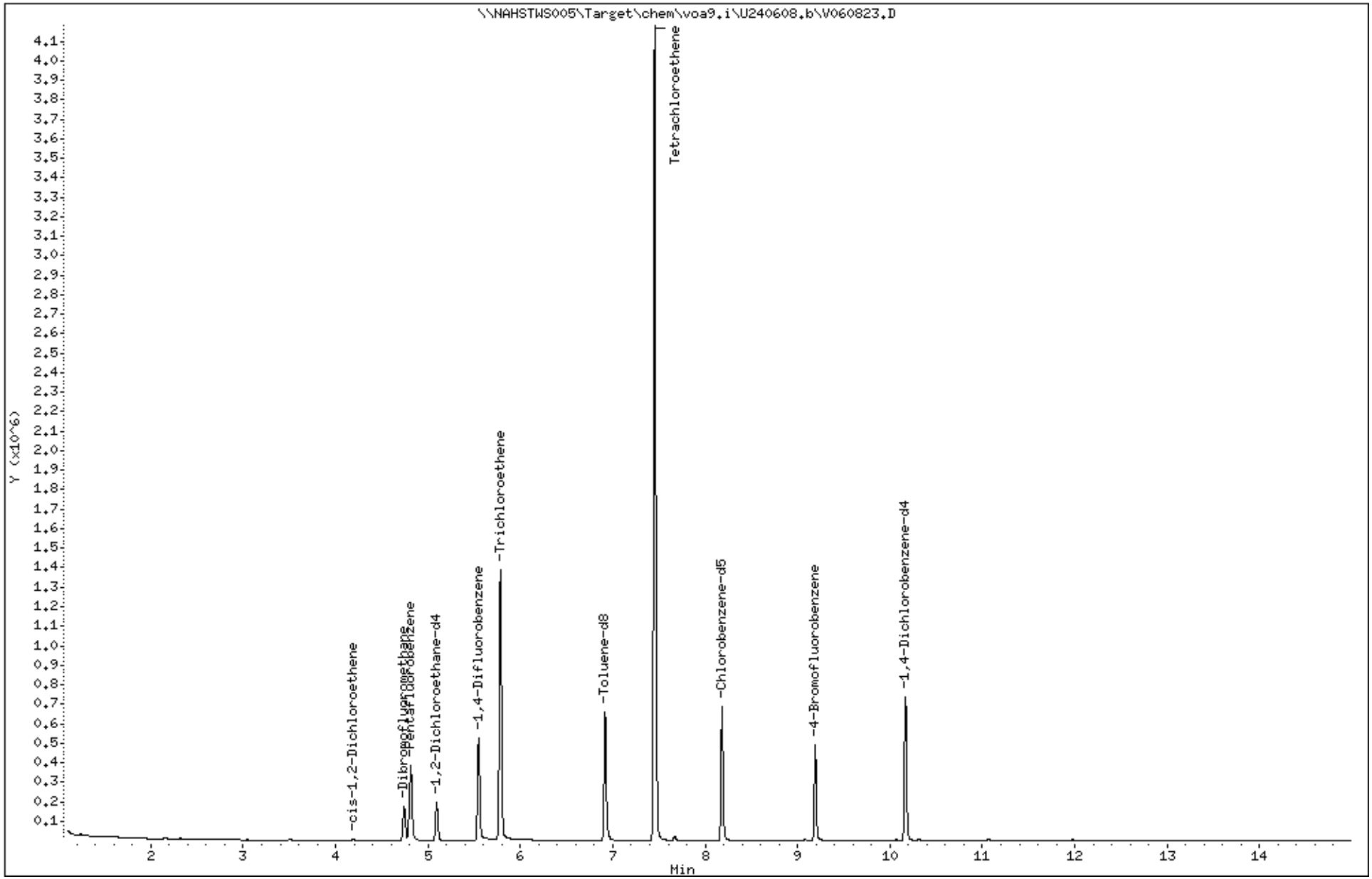
Sample Info: HS24051959-06

Purge Volume: 5.0

Operator: TS

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240608.b\V060823.D

Date : 09-JUN-2024 15:49

Client ID:

Instrument: VOA9.i

Sample Info: HS24051959-06

Purge Volume: 5.0

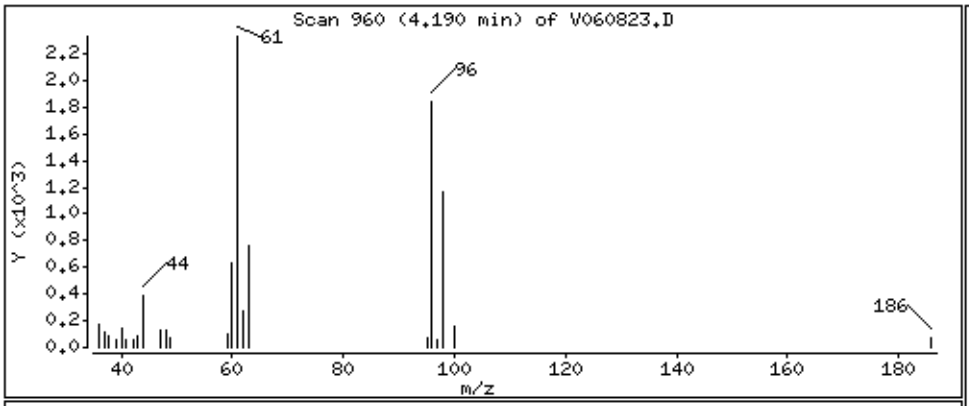
Operator: TS

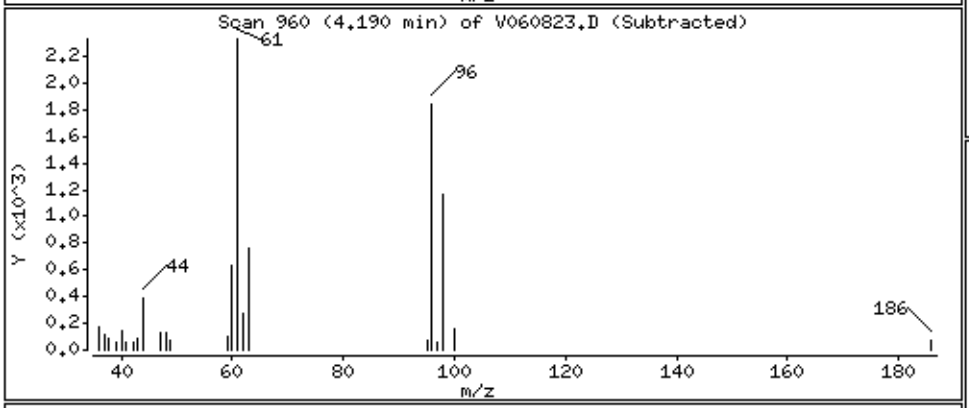
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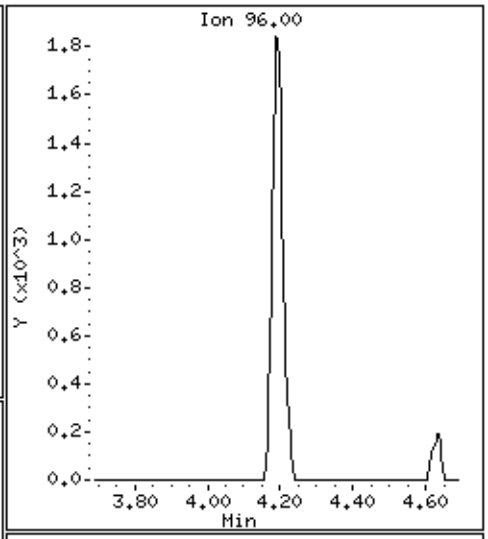
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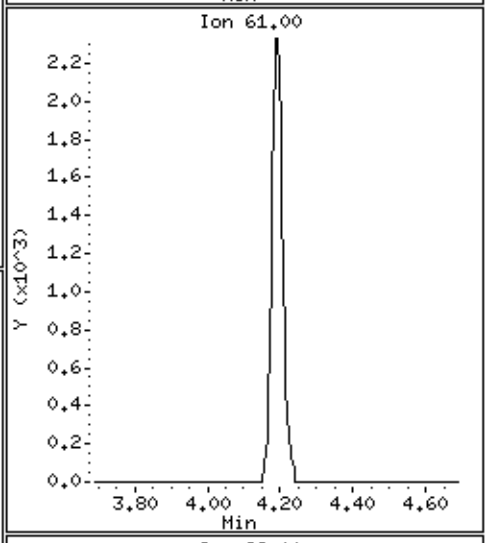
27 cis-1,2-Dichloroethene

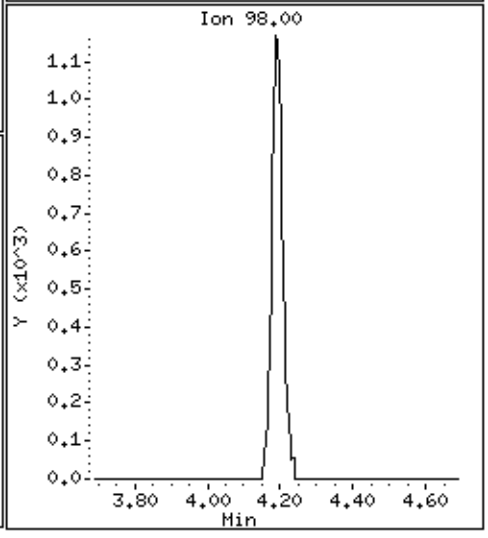
Concentration: 1.13 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240608.b\V060823.D

Date : 09-JUN-2024 15:49

Client ID:

Instrument: VOA9.i

Sample Info: HS24051959-06

Purge Volume: 5.0

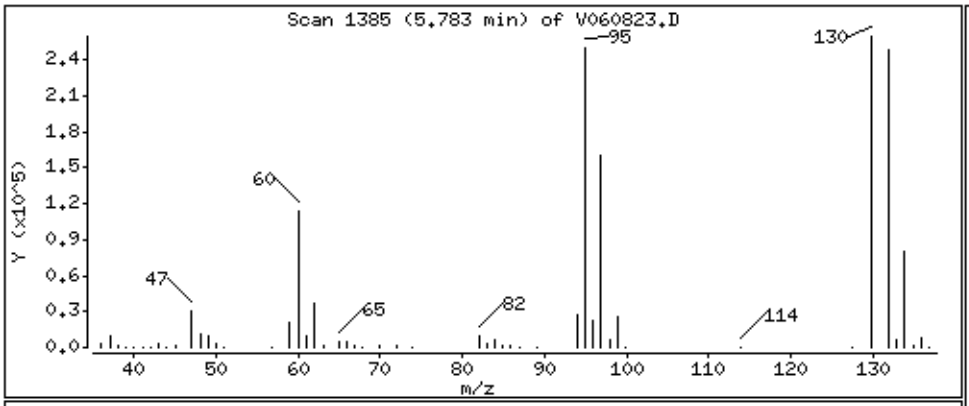
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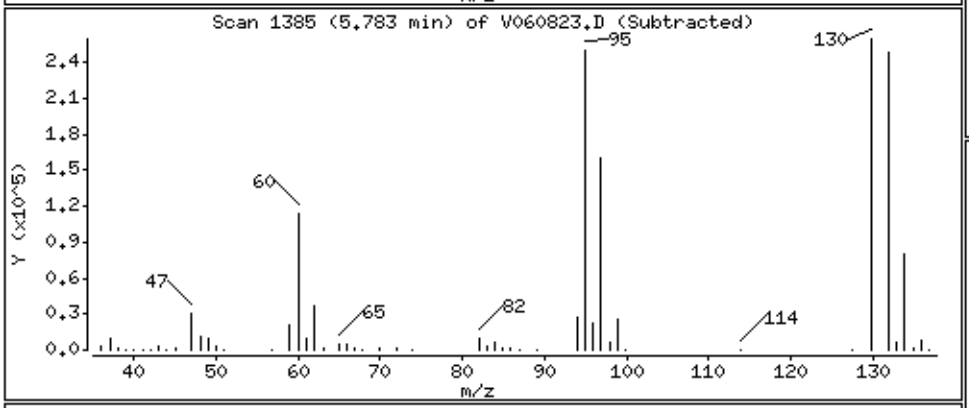
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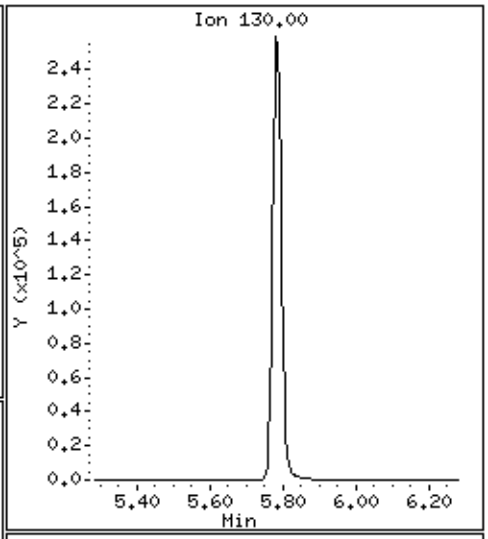
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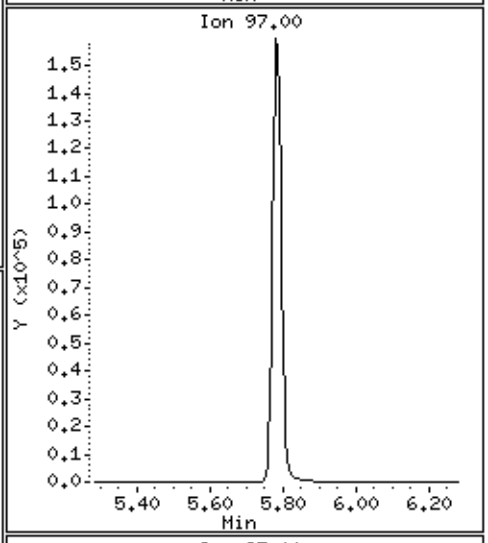
38 Trichloroethene

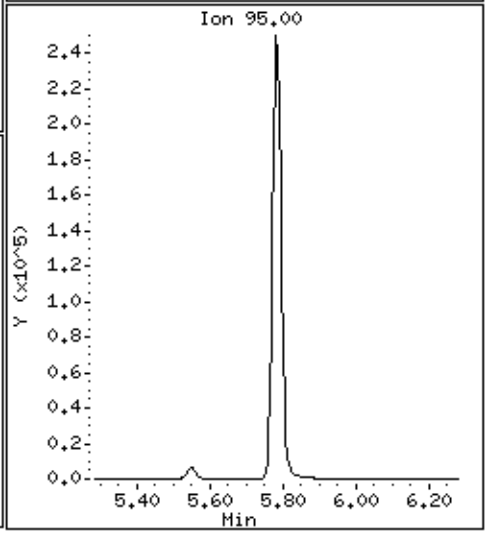
Concentration: 214.04 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240608.b\V060823.D

Date : 09-JUN-2024 15:49

Client ID:

Instrument: VOA9.i

Sample Info: HS24051959-06

Purge Volume: 5.0

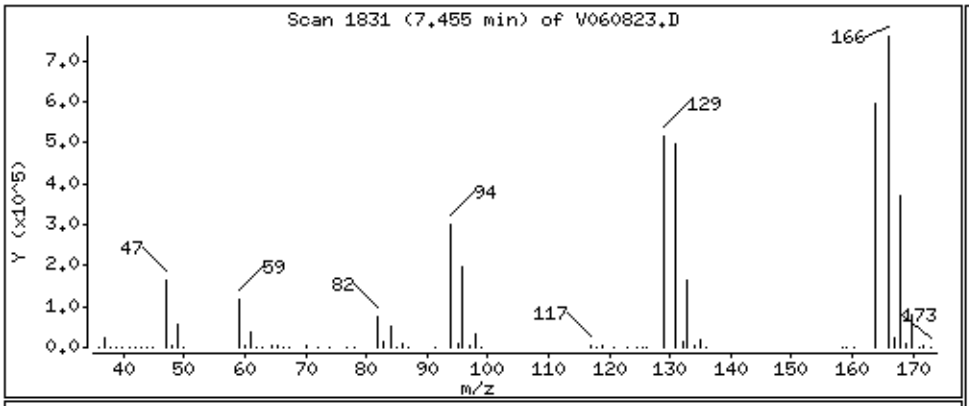
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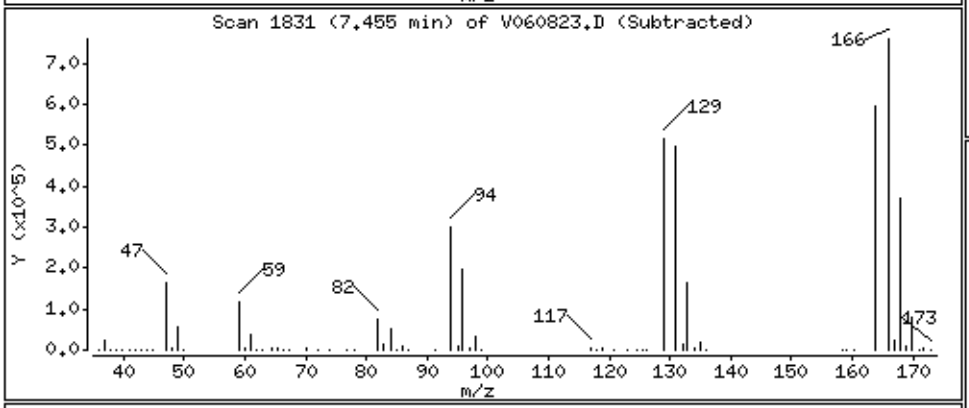
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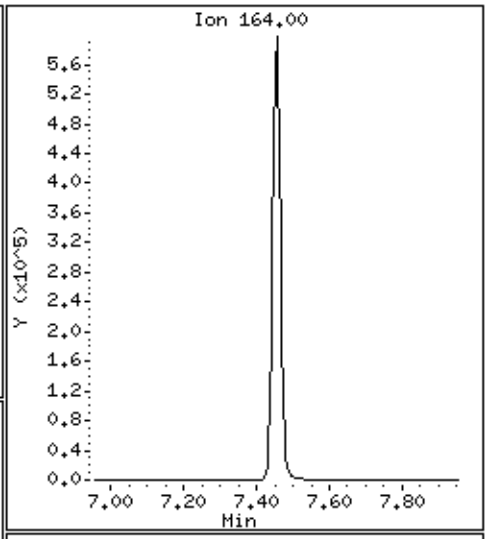
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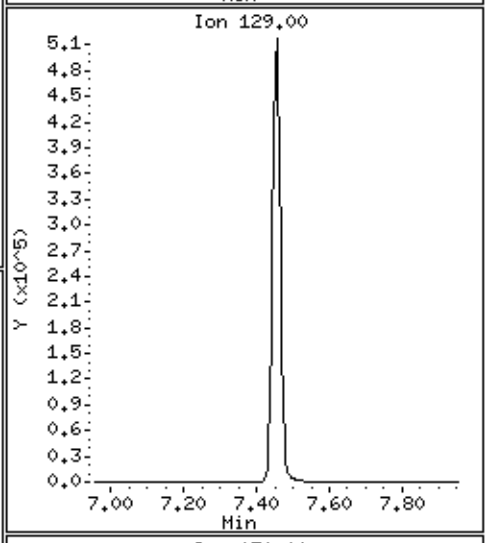
56 Tetrachloroethene

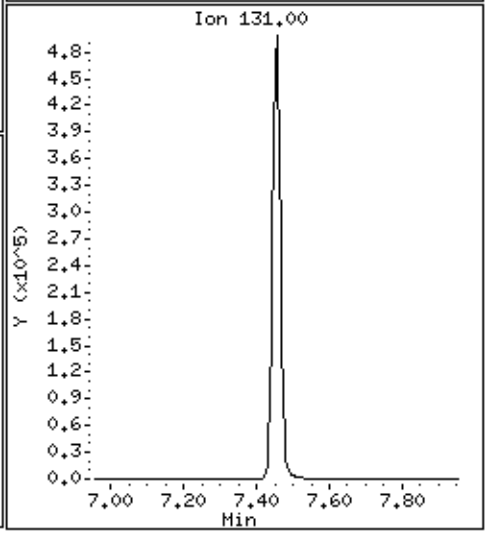
Concentration: 543.97 ug/l









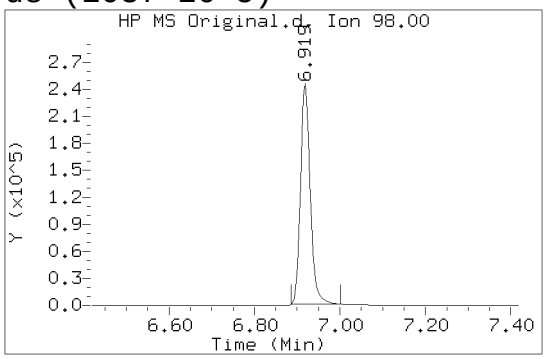


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InstruID : VOA9.i
LabSampID : HS24051959-06

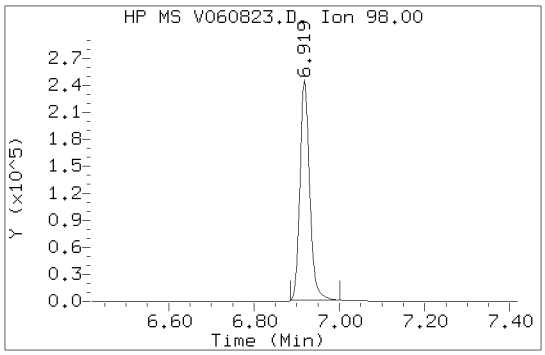
Toluene-d8 (2037-26-5)

Reason Code:

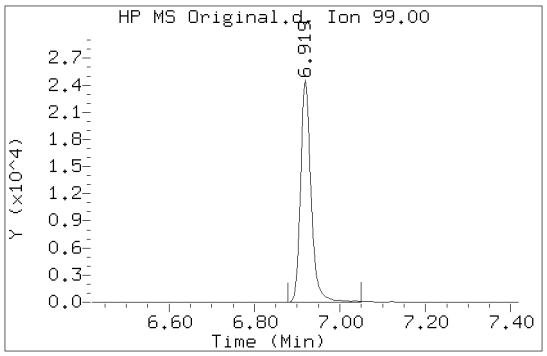
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AREA
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HEIGHT
245098
22-Jun-2024
12:43
RUCHA
PATEL



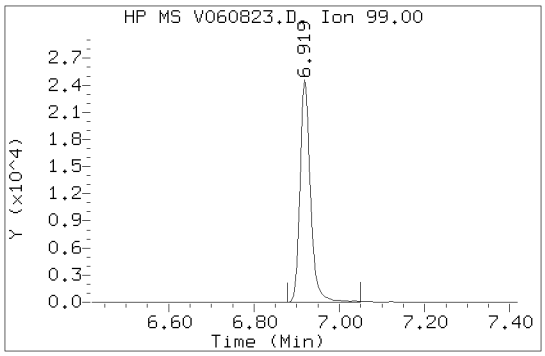
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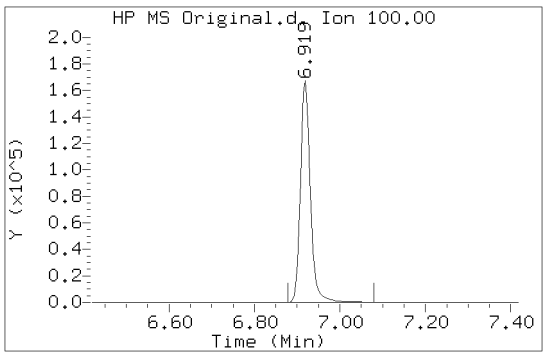
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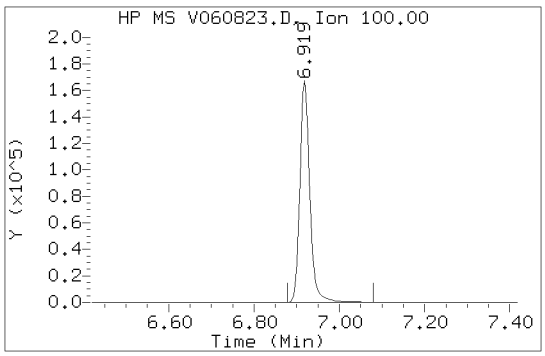
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PATEL



BEFORE
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AREA
275454
HEIGHT
167296
22-Jun-2024
12:43
RUCHA
PATEL



AFTER
MASS
100
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275454
HEIGHT
167296
22-Jun-2024
12:43
RUCHA
PATEL



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240608.b\V060829.D Page 1
Report Date: 22-Jun-2024 12:44

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240608.b\V060829.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 09-JUN-2024 17:58
Operator : TS Inst ID: VOA9.i
Smp Info : VSTD050;VSTD050;2;;CCV
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240608.b\8260C.m
Meth Date : 22-Jun-2024 12:44 VOA9.i Quant Type: ISTD
Cal Date : 08-JUN-2024 19:08 Cal File: C060811.D
Als bottle: 67 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.819	4.819	(1.000)	280428	50.0000	
2	Dichlorodifluoromethane	85	1.171	1.171	(0.243)	82170	50.0000	46.13
3	Chloromethane	50	1.303	1.303	(0.270)	202389	50.0000	49.53
4	Propionitrile	54	4.335	4.335	(0.900)	123233	500.000	457.65
5	Vinyl Chloride	62	1.385	1.385	(0.287)	116350	50.0000	49.06
6	Bromomethane	94	1.617	1.617	(0.336)	52717	50.0000	48.98
7	Chloroethane	64	1.704	1.704	(0.354)	79765	50.0000	50.74
8	Trichlorofluoromethane	101	1.899	1.899	(0.394)	134336	50.0000	48.61(Q)
9	Acrolein	56	2.270	2.270	(0.471)	10656	100.000	120.79
10	Acetone	43	2.412	2.412	(0.501)	69095	100.000	87.39
11	1,1-Dichloroethene	96	2.337	2.337	(0.485)	79632	50.0000	45.86
12	Isobutyl Alcohol	43	5.284	5.284	(1.096)	268587	1000.00	1008.21
13	Acetonitrile	39	2.675	2.675	(0.555)	93886	500.000	432.05
14	Allyl Chloride	41	2.675	2.675	(0.555)	225538	50.0000	44.26
15	Iodomethane	142	2.472	2.472	(0.513)	56647	100.000	95.06(Q)
16	Acrylonitrile	53	3.068	3.068	(0.637)	64903	100.000	93.29
17	Methylene Chloride	84	2.798	2.798	(0.581)	98050	50.0000	51.24
18	Methyl tert-butyl ether	73	3.083	3.083	(0.640)	218397	50.0000	45.80
19	Carbon Disulfide	76	2.525	2.525	(0.524)	446929	100.000	86.92
20	trans-1,2-Dichloroethene	96	3.061	3.061	(0.635)	85250	50.0000	49.21(Q)

21 Vinyl Acetate	43	4.343	4.343 (0.901)	100843	100.000	100.22
22 1,1-Dichloroethane	63	3.514	3.514 (0.729)	168498	50.0000	50.36

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240608.b\V060829.D Page 2
Report Date: 22-Jun-2024 12:44

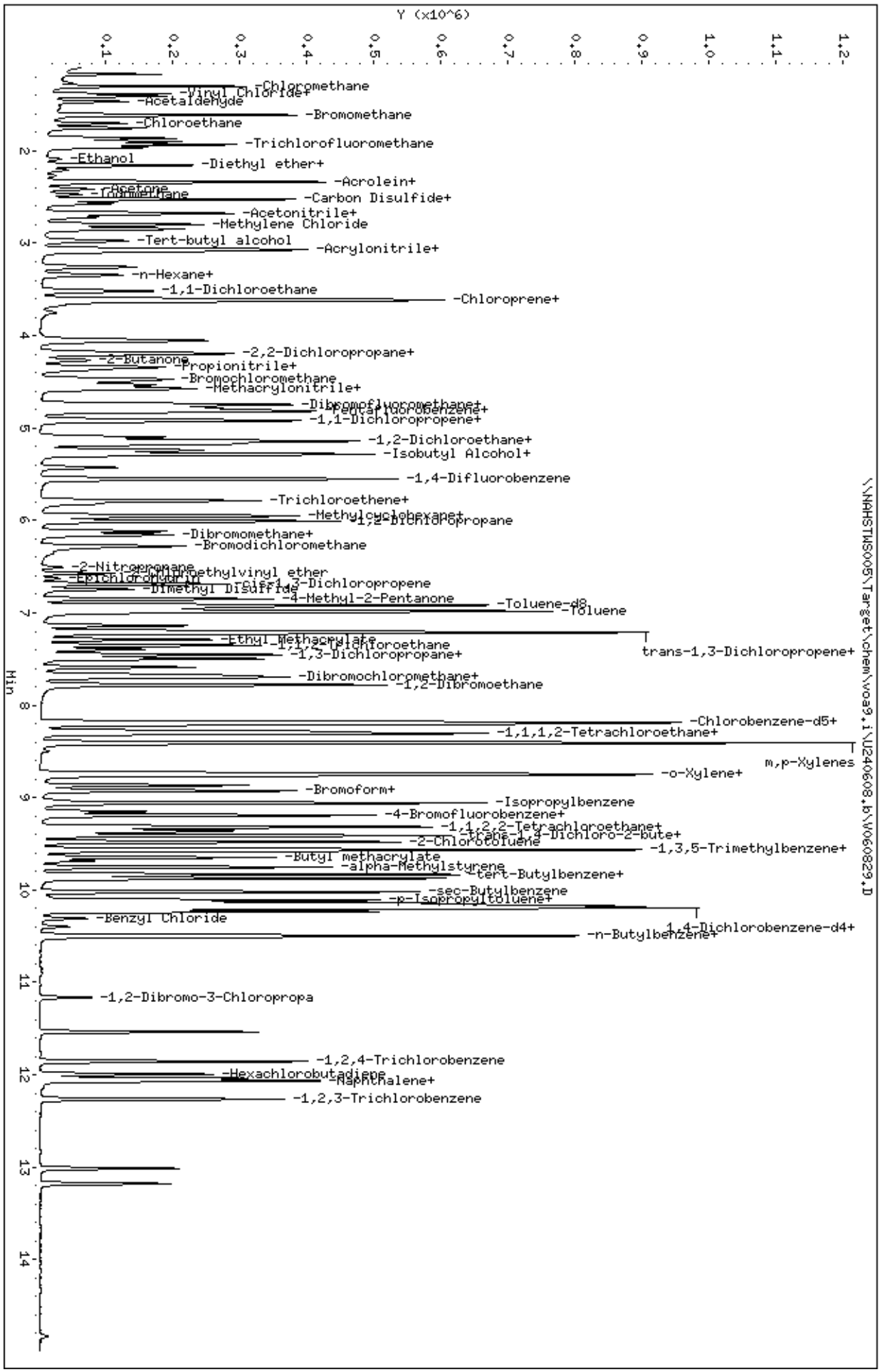
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
23	Chloroprene	53	3.612	3.612	(0.750)	142249	50.0000	46.08
24	2-Butanone	43	4.264	4.264	(0.885)	97051	100.000	97.98
25	Methacrylonitrile	41	4.496	4.496	(0.933)	57573	50.0000	47.72(a)
26	2,2-Dichloropropane	77	4.185	4.185	(0.869)	69647	50.0000	25.48
27	cis-1,2-Dichloroethene	96	4.197	4.197	(0.871)	104825	50.0000	50.28
28	Chloroform	83	4.575	4.575	(0.949)	172749	50.0000	51.16
29	Bromochloromethane	128	4.470	4.470	(0.928)	51931	50.0000	50.81
$ 30	Dibromofluoromethane	113	4.748	4.748	(0.985)	102477	50.0000	56.65
31	1,1,1-Trichloroethane	97	4.744	4.744	(0.984)	134174	50.0000	48.08
32	1,1-Dichloropropene	75	4.924	4.924	(0.887)	123260	50.0000	47.49
33	1,2-Dichloroethane	62	5.175	5.175	(0.932)	139406	50.0000	51.55
34	Carbon Tetrachloride	117	4.913	4.913	(0.885)	103694	50.0000	46.57
$ 35	1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	121261	50.0000	55.29
* 36	1,4-Difluorobenzene	114	5.554	5.554	(1.000)	404482	50.0000	
37	Benzene	78	5.137	5.137	(0.925)	387874	50.0000	50.26
38	Trichloroethene	130	5.786	5.786	(1.042)	103687	50.0000	51.48
39	Bromodichloromethane	83	6.277	6.277	(1.130)	116807	50.0000	47.79
40	Methyl Methacrylate	41	5.820	5.820	(1.208)	32762	50.0000	45.84
41	2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	41529	100.000	87.77
42	1,2-Dichloropropane	63	6.007	6.007	(1.082)	105039	50.0000	49.98
43	2-Nitropropane	43	6.506	6.506	(1.350)	19471	50.0000	42.83
44	Dibromomethane	93	6.116	6.116	(1.101)	61660	50.0000	50.64
45	4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	204458	100.000	100.75
46	cis-1,3-Dichloropropene	75	6.689	6.689	(1.205)	135429	50.0000	44.84
* 47	Chlorobenzene-d5	117	8.181	8.181	(1.000)	360531	50.0000	
$ 48	Toluene-d8	98	6.918	6.918	(0.846)	398458	50.0000	58.45
49	Ethyl Methacrylate	69	7.289	7.289	(1.313)	116863	50.0000	45.73
50	Toluene	91	6.978	6.978	(0.853)	397565	50.0000	49.98
51	trans-1,3-Dichloropropene	75	7.195	7.195	(1.296)	111611	50.0000	46.46
52	2-Hexanone	43	7.214	7.214	(0.882)	124642	100.000	95.80(Q)
53	1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	77944	50.0000	51.03
54	1,3-Dichloropropane	76	7.495	7.495	(0.916)	168185	50.0000	51.01
55	Dibromochloromethane	129	7.690	7.690	(0.940)	92276	50.0000	52.79
56	Tetrachloroethene	164	7.454	7.454	(0.911)	76082	50.0000	46.75
57	1,2-Dibromoethane	107	7.780	7.780	(0.951)	90758	50.0000	50.50
58	1-Chlorohexane	55	8.193	8.193	(1.475)	69372	50.0000	44.40
59	Chlorobenzene	112	8.208	8.208	(1.003)	257634	50.0000	50.51
60	1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	89262	50.0000	48.84
61	Ethylbenzene	106	8.305	8.305	(1.015)	130603	50.0000	46.99
62	m,p-Xylenes	106	8.406	8.406	(1.027)	325519	100.000	94.44
63	o-Xylene	106	8.744	8.744	(1.069)	161856	50.0000	48.10
64	Styrene	104	8.759	8.759	(1.071)	264351	50.0000	49.04
66	Bromoform	173	8.916	8.916	(1.090)	54066	50.0000	47.77
67	Isopropylbenzene	105	9.059	9.059	(1.107)	395322	50.0000	49.00
68	1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	119495	50.0000	46.61
$ 69	4-Bromofluorobenzene	95	9.190	9.190	(1.123)	145002	50.0000	57.71
* 70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	196444	50.0000	
71	1,2,3-Trichloropropane	75	9.358	9.358	(0.920)	122493	50.0000	46.77
72	trans-1,4-Dichloro-2-butene	53	9.373	9.373	(1.146)	21880	50.0000	39.93(Q)
73	n-Propylbenzene	91	9.411	9.411	(0.926)	446824	50.0000	46.88
74	Bromobenzene	156	9.313	9.313	(0.916)	111797	50.0000	48.84
75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	308073	50.0000	46.59

76	2-Chlorotoluene	91	9.478	9.478 (0.932)	274995	50.0000	47.35
77	4-Chlorotoluene	91	9.572	9.572 (0.941)	319554	50.0000	44.18

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	276206	50.0000	48.96
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	300422	50.0000	44.77
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	359206	50.0000	47.21
82	p-Isopropyltoluene	119	10.142	10.142	(0.997)	302019	50.0000	46.02
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	192000	50.0000	48.29
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	199281	50.0000	47.53
86	Benzyl Chloride	91	10.307	10.307	(1.260)	45043	50.0000	18.57
87	n-Butylbenzene	91	10.491	10.491	(1.032)	249591	50.0000	41.60
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	192688	50.0000	48.81
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	15290	50.0000	48.20
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	117929	50.0000	41.76
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	46844	50.0000	41.24
92	Naphthalene	128	12.065	12.065	(1.187)	292943	50.0000	48.52
93	1,2,3-Trichlorobenzene	180	12.267	12.267	(1.206)	109724	50.0000	46.63
146	Methyl acetate	43	2.716	2.716	(0.564)	80412	50.0000	51.86
138	Freon TF	101	2.341	2.341	(0.486)	73086	50.0000	45.80
141	Cyclohexane	56	4.785	4.785	(0.993)	123638	50.0000	47.96
142	Tetrahydrofuran	42	4.541	4.541	(0.942)	31284	100.000	85.84
147	Methylcyclohexane	55	5.943	5.943	(1.070)	200900	50.0000	43.13
135	1,4-Dioxane	88	6.165	6.165	(1.279)	19729	1000.00	951.26
132	n-Butanol	56	5.820	5.820	(1.208)	45087	1000.00	882.67
136	n-Hexane	57	3.346	3.346	(0.694)	59545	50.0000	32.84(Q)
139	Diethyl ether	59	2.150	2.150	(0.446)	63605	50.0000	45.78(Q)
148	Tert-butyl alcohol	59	2.974	2.974	(0.617)	145255	1000.00	924.47
149	Isopropyl alcohol	45	2.570	2.570	(0.533)	114619	1000.00	935.12
156	Diisopropyl ether	45	3.623	3.623	(0.752)	287114	50.0000	46.73
162	Butyl acrylate	55	8.729	8.729	(1.067)	144576	50.0000	45.12(Q)
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	410554	50.0000	46.54
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	259051	50.0000	43.50
167	Ethanol	45	2.090	2.090	(0.434)	21465	1000.00	914.53
172	tert-Butyl formate	59	5.239	5.239	(1.087)	124428	100.000	83.32
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.299)	485519	1000.00	904.12
140	1,3-Butadiene	54	1.407	1.407	(0.292)	48104	50.0000	45.22
182	Epichlorohydrin	57	6.626	6.626	(1.193)	16845	200.000	161.42
M 94	1,2-Dichloroethylene (total)	96				190075	100.000	(a)
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	122362	50.0000	46.69
131	Methyl Acrylate	55	4.369	4.369	(0.907)	98903	50.0000	44.38
189	n-Butyl acetate	43	7.702	7.702	(0.941)	151499	50.0000	49.69
134	Cyclohexanone	55	9.149	9.149	(0.900)	59861	1000.00	591.65(Q)
185	Isoprene	39	2.161	2.161	(0.449)	22330	50.0000	48.78
188	Isopropyl acetate	43	5.284	5.284	(0.951)	268163	50.0000	50.10
150	Allyl alcohol	57	3.346	3.346	(0.694)	59545	1000.00	656.86
194	Acetaldehyde	44	1.467	1.467	(0.305)	115034	200.000	221.59
200	Dimethyl Disulfide	94	6.746	6.746	(0.825)	53718	50.0000	42.27
133	Ethyl Acrylate	55	5.943	5.943	(1.233)	200900	50.0000	43.55
163	Butyl methacrylate	41	9.647	9.647	(0.949)	90270	50.0000	51.39(Q)
159	Propylene oxide	43	2.206	2.206	(0.458)	14958	100.000	93.64
203	2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	95248	50.0000	41.31
204	Tetrahydrothiophene	60	7.668	7.668	(0.937)	92135	50.0000	44.76(A)
205	sec-Butyl Ether	57	7.214	7.214	(0.882)	107953	50.0000	28.34(A)
187	n-Amyl acetate	43	8.927	8.927	(1.091)	151497	50.0000	50.63

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
    exceeded maximum amount.
Q - Qualifier signal failed the ratio test.



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240608.b\V060829.D
Date : 09-JUN-2024 17:58
Client ID: VSTD050
Sample Info: VSTD050;VSTD050;2;;CCV
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240608.b\V060829.D
Inj Date : 09-JUN-2024 17:58
InstruID : VOA9.i
LabSampID : VSTD050

NO MANUAL INTEGRATIONS

right solutions.
right partner.

RawData

<textMethods>

Workorder

HS24051959

Client

Bhate Environmental Associates, Inc.

Project

LHAAP-58

07/03/2024

ALS Environmental–Houston Laboratory
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Data File: \\nahstws005\Target\chem\voa9.i\U240610.b\C061001.D Page 1
Report Date: 10-Jun-2024 17:49

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240610.b\C061001.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 10-JUN-2024 09:05
Operator : TS Inst ID: VOA9.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V9;WATER;0;1;
Comment :
Method : \\nahstws005\Target\chem\voa9.i\U240610.b\bfb.m
Meth Date : 27-Jan-2023 08:08 apoluri Quant Type: ISTD
Cal Date : 30-MAR-2018 18:09 Cal File: U033003.d
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAHSTW7026

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	2.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/l)		
RT	EXP RT	REL RT	MASS	RESPONSE			TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
9.190	9.180	(0.000)	95	68768			0.00- 100.00	100.00
9.190	9.180	(0.000)	50	14463			15.00- 40.00	21.03
9.190	9.180	(0.000)	75	35928			30.00- 60.00	52.25
9.190	9.180	(0.000)	96	5029			5.00- 9.00	7.31
9.190	9.180	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
9.190	9.180	(0.000)	174	57336			50.00- 0.00	83.38
9.190	9.180	(0.000)	175	4763			5.00- 9.00	8.31
9.190	9.180	(0.000)	176	54528			95.00- 101.00	95.10
9.190	9.180	(0.000)	177	4150			5.00- 9.00	7.61

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240610.b\C061002.D Page 1
Report Date: 21-Jun-2024 17:30

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240610.b\C061002.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 10-JUN-2024 09:47
Operator : TS Inst ID: VOA9.i
Smp Info : VSTD050;VSTD050;2;;CCV
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240610.b\8260C.m
Meth Date : 21-Jun-2024 17:30 VOA9.i Quant Type: ISTD
Cal Date : 08-JUN-2024 16:16 Cal File: C060803.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.811	4.811	(1.000)	278604	50.0000	
2	Dichlorodifluoromethane	85	1.164	1.164	(0.242)	79815	50.0000	43.94
3	Chloromethane	50	1.295	1.295	(0.269)	184529	50.0000	49.01
4	Propionitrile	54	4.331	4.331	(0.900)	123174	500.000	460.47
5	Vinyl Chloride	62	1.377	1.377	(0.286)	107406	50.0000	44.18
6	Bromomethane	94	1.606	1.606	(0.334)	50278	50.0000	44.09
7	Chloroethane	64	1.696	1.696	(0.353)	71240	50.0000	45.29
8	Trichlorofluoromethane	101	1.891	1.891	(0.393)	124622	50.0000	45.39
9	Acrolein	56	2.262	2.262	(0.470)	8357	100.000	95.19
10	Acetone	43	2.405	2.405	(0.500)	68099	100.000	86.61
11	1,1-Dichloroethene	96	2.330	2.330	(0.484)	71884	50.0000	44.43
12	Isobutyl Alcohol	43	5.280	5.280	(1.097)	260151	1000.00	942.37
13	Acetonitrile	39	2.667	2.667	(0.554)	95245	500.000	447.19
14	Allyl Chloride	41	2.671	2.671	(0.555)	226818	50.0000	45.18
15	Iodomethane	142	2.465	2.465	(0.512)	67247	100.000	110.92
16	Acrylonitrile	53	3.061	3.061	(0.636)	63837	100.000	92.22
17	Methylene Chloride	84	2.791	2.791	(0.580)	91301	50.0000	47.60
18	Methyl tert-butyl ether	73	3.076	3.076	(0.639)	218085	50.0000	46.09
19	Carbon Disulfide	76	2.517	2.517	(0.523)	435864	100.000	88.37
20	trans-1,2-Dichloroethene	96	3.057	3.057	(0.635)	79247	50.0000	45.35

21 Vinyl Acetate	43	4.335	4.335 (0.901)	97133	100.000	95.62
22 1,1-Dichloroethane	63	3.510	3.510 (0.730)	152976	50.0000	45.82

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
23	Chloroprene	53	3.604	3.604	(0.749)	129652	50.0000	44.04
24	2-Butanone	43	4.256	4.256	(0.885)	94879	100.000	95.97
25	Methacrylonitrile	41	4.489	4.489	(0.933)	56743	50.0000	45.80(a)
26	2,2-Dichloropropane	77	4.178	4.178	(0.868)	119229	50.0000	45.29
27	cis-1,2-Dichloroethene	96	4.193	4.193	(0.871)	96080	50.0000	45.75
28	Chloroform	83	4.568	4.568	(0.949)	158773	50.0000	46.99
29	Bromochloromethane	128	4.466	4.466	(0.928)	47727	50.0000	46.87
$ 30	Dibromofluoromethane	113	4.744	4.744	(0.986)	102677	50.0000	56.47
31	1,1,1-Trichloroethane	97	4.740	4.740	(0.985)	123027	50.0000	44.38
32	1,1-Dichloropropene	75	4.916	4.916	(0.886)	115879	50.0000	44.03
33	1,2-Dichloroethane	62	5.171	5.171	(0.932)	130946	50.0000	48.59
34	Carbon Tetrachloride	117	4.909	4.909	(0.885)	95227	50.0000	43.87
$ 35	1,2-Dichloroethane-d4	65	5.092	5.092	(1.058)	119989	50.0000	54.96
* 36	1,4-Difluorobenzene	114	5.550	5.550	(1.000)	402722	50.0000	
37	Benzene	78	5.134	5.134	(0.925)	354599	50.0000	45.87
38	Trichloroethene	130	5.786	5.786	(1.043)	89650	50.0000	44.70
39	Bromodichloromethane	83	6.273	6.273	(1.130)	110105	50.0000	45.25
40	Methyl Methacrylate	41	5.816	5.816	(1.209)	35505	50.0000	46.72
41	2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	41161	100.000	87.41
42	1,2-Dichloropropane	63	6.007	6.007	(1.082)	98255	50.0000	46.64
43	2-Nitropropane	43	6.502	6.502	(1.351)	21984	50.0000	44.92
44	Dibromomethane	93	6.116	6.116	(1.102)	57431	50.0000	47.29
45	4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	188804	100.000	90.34
46	cis-1,3-Dichloropropene	75	6.686	6.686	(1.205)	141664	50.0000	44.59
* 47	Chlorobenzene-d5	117	8.181	8.181	(1.000)	361518	50.0000	
$ 48	Toluene-d8	98	6.918	6.918	(0.846)	377861	50.0000	55.99(M)
49	Ethyl Methacrylate	69	7.285	7.285	(1.313)	115103	50.0000	43.00
50	Toluene	91	6.978	6.978	(0.853)	365776	50.0000	46.39
51	trans-1,3-Dichloropropene	75	7.192	7.192	(1.296)	116799	50.0000	44.79
52	2-Hexanone	43	7.210	7.210	(0.881)	121366	100.000	91.19
53	1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	73005	50.0000	48.43
54	1,3-Dichloropropane	76	7.495	7.495	(0.916)	155184	50.0000	47.44
55	Dibromochloromethane	129	7.690	7.690	(0.940)	86423	50.0000	45.63
56	Tetrachloroethene	164	7.454	7.454	(0.911)	72315	50.0000	45.97
57	1,2-Dibromoethane	107	7.780	7.780	(0.951)	83973	50.0000	46.62
58	1-Chlorohexane	55	8.193	8.193	(1.476)	68624	50.0000	44.10
59	Chlorobenzene	112	8.208	8.208	(1.003)	238193	50.0000	46.95
60	1,1,1,2-Tetrachloroethane	131	8.279	8.279	(1.012)	83630	50.0000	45.68
61	Ethylbenzene	106	8.305	8.305	(1.015)	119720	50.0000	42.96
62	m,p-Xylenes	106	8.406	8.406	(1.027)	305888	100.000	88.51
63	o-Xylene	106	8.744	8.744	(1.069)	149147	50.0000	44.20
64	Styrene	104	8.759	8.759	(1.071)	246330	50.0000	45.57
66	Bromoform	173	8.916	8.916	(1.090)	51053	50.0000	42.46
67	Isopropylbenzene	105	9.058	9.058	(1.107)	367715	50.0000	45.45
68	1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	120406	50.0000	47.22
$ 69	4-Bromofluorobenzene	95	9.190	9.190	(1.123)	137583	50.0000	55.35(M)
* 70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	195625	50.0000	
71	1,2,3-Trichloropropane	75	9.358	9.358	(0.920)	120012	50.0000	46.00
72	trans-1,4-Dichloro-2-butene	53	9.373	9.373	(1.146)	25307	50.0000	45.23
73	n-Propylbenzene	91	9.411	9.411	(0.926)	427892	50.0000	45.08
74	Bromobenzene	156	9.313	9.313	(0.916)	105246	50.0000	46.34
75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	293704	50.0000	46.81

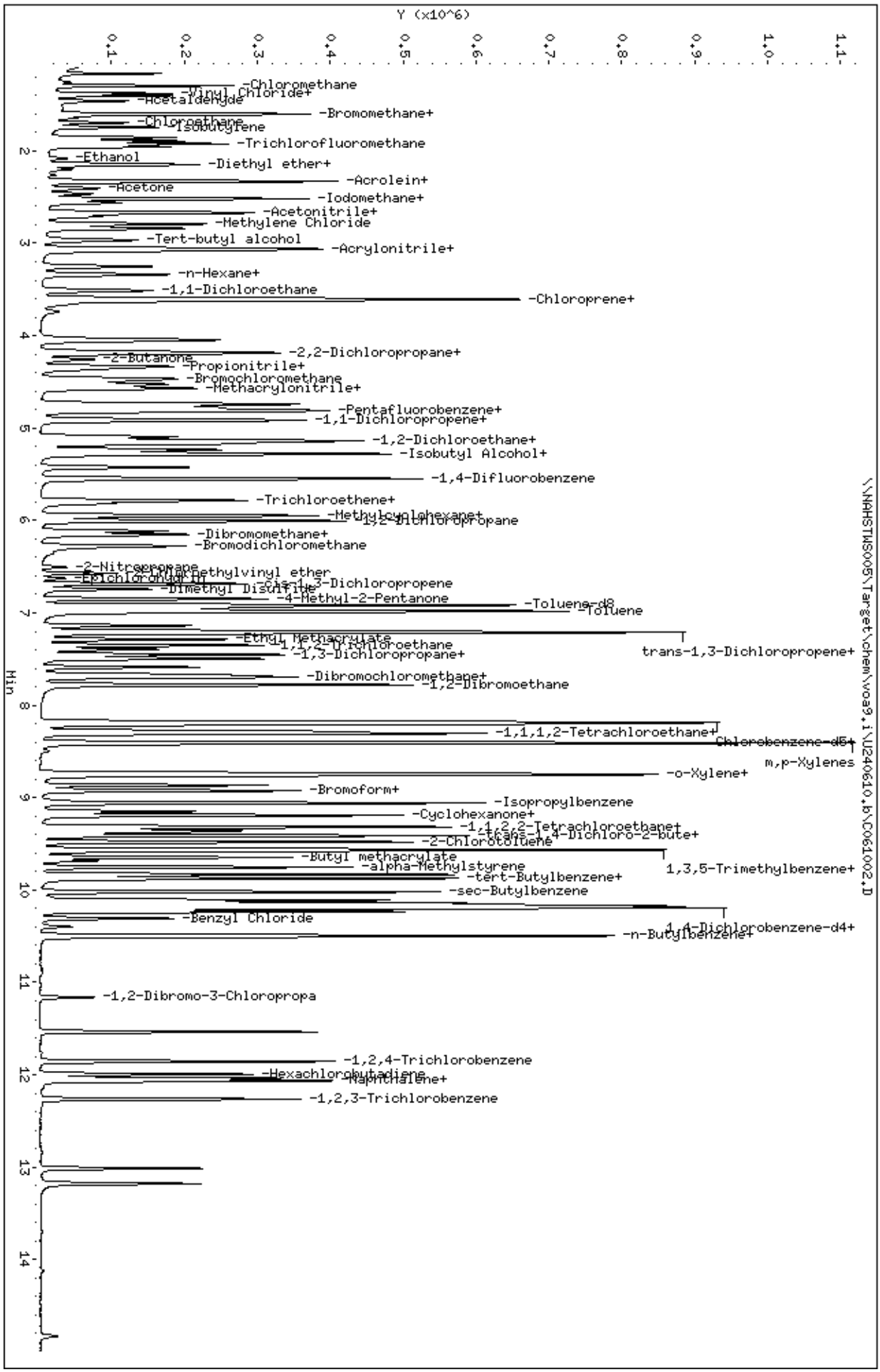
76	2-Chlorotoluene	91	9.478	9.478 (0.932)	264659	50.0000	46.16
77	4-Chlorotoluene	91	9.572	9.572 (0.941)	305190	50.0000	45.59

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.834	9.834	(0.967)	252831	50.0000	45.01
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	294026	50.0000	44.00
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	346987	50.0000	45.80
82	p-Isopropyltoluene	119	10.142	10.142	(0.997)	297182	50.0000	45.48
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	181671	50.0000	45.86
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	190603	50.0000	46.16
86	Benzyl Chloride	91	10.307	10.307	(1.260)	118449	50.0000	48.34
87	n-Butylbenzene	91	10.490	10.490	(1.032)	265453	50.0000	45.36
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	183013	50.0000	47.03
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	14656	50.0000	46.47
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	118850	50.0000	44.79
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	52460	50.0000	46.30
92	Naphthalene	128	12.065	12.065	(1.187)	280624	50.0000	45.79
93	1,2,3-Trichlorobenzene	180	12.264	12.264	(1.206)	107179	50.0000	45.03
146	Methyl acetate	43	2.708	2.708	(0.563)	78645	50.0000	51.03
138	Freon TF	101	2.333	2.333	(0.485)	72275	50.0000	44.77
141	Cyclohexane	56	4.781	4.781	(0.994)	116502	50.0000	44.27
142	Tetrahydrofuran	42	4.538	4.538	(0.943)	31482	100.000	90.41
147	Methylcyclohexane	55	5.943	5.943	(1.071)	200972	50.0000	43.13
135	1,4-Dioxane	88	6.161	6.161	(1.280)	21046	1000.00	994.28
132	n-Butanol	56	5.816	5.816	(1.209)	51209	1000.00	928.94
136	n-Hexane	57	3.338	3.338	(0.694)	84322	50.0000	46.40
139	Diethyl ether	59	2.142	2.142	(0.445)	62225	50.0000	45.02
148	Tert-butyl alcohol	59	2.963	2.963	(0.616)	148462	1000.00	926.38
149	Isopropyl alcohol	45	2.562	2.562	(0.533)	120699	1000.00	970.49
156	Diisopropyl ether	45	3.615	3.615	(0.751)	282812	50.0000	46.36
162	Butyl acrylate	55	8.729	8.729	(1.067)	142568	50.0000	44.40
164	Dicyclopentadiene	66	10.194	10.194	(1.003)	383787	50.0000	43.66
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	260904	50.0000	45.26
167	Ethanol	45	2.082	2.082	(0.433)	23429	1000.00	1037.40
172	tert-Butyl formate	59	5.235	5.235	(1.088)	153973	100.000	103.76
151	4-Methyl-2-pentanol	45	7.210	7.210	(1.299)	484720	1000.00	856.54
140	1,3-Butadiene	54	1.400	1.400	(0.291)	45641	50.0000	44.74
182	Epichlorohydrin	57	6.626	6.626	(1.194)	20053	200.000	191.61
M 94	1,2-Dichloroethylene (total)	96				175327	100.000	(a)
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	116684	50.0000	44.71
130	Ethyl Acetate	43	4.526	4.526	(0.941)	29376	50.0000	45.60(M)
131	Methyl Acrylate	55	4.365	4.365	(0.907)	101575	50.0000	45.88
189	n-Butyl acetate	43	7.701	7.701	(0.941)	144038	50.0000	44.61
134	Cyclohexanone	55	9.148	9.148	(0.900)	80452	1000.00	806.61
185	Isoprene	39	2.153	2.153	(0.448)	20178	50.0000	44.17
188	Isopropyl acetate	43	5.280	5.280	(0.951)	259760	50.0000	48.75
150	Allyl alcohol	57	3.338	3.338	(0.694)	84322	1000.00	914.67
194	Acetaldehyde	44	1.460	1.460	(0.303)	112630	200.000	217.93
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	59481	50.0000	45.96
202	Isobutylene	41	1.745	1.745	(0.363)	37354	50.0000	41.03(M)
133	Ethyl Acrylate	55	5.943	5.943	(1.235)	200972	50.0000	43.14
163	Butyl methacrylate	41	9.643	9.643	(0.948)	89457	50.0000	51.14
159	Propylene oxide	43	2.198	2.198	(0.457)	13920	100.000	87.52
178	Ethylene oxide	44	1.599	1.599	(0.332)	243387	100.000	75.26(M)
203	2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	101366	50.0000	44.00
204	Tetrahydrothiophene	60	7.668	7.668	(0.937)	93510	50.0000	46.39(A)

205 sec-Butyl Ether	57	7.214	7.214 (0.882)	166341	50.0000	41.46(AM)
187 n-Amyl acetate	43	8.927	8.927 (1.091)	141620	50.0000	43.99

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240610.b\C061002.D
Date : 10-JUN-2024 09:47
Client ID: VSTD050
Sample Info: VSTD050;VSTD050;2;;CCW
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

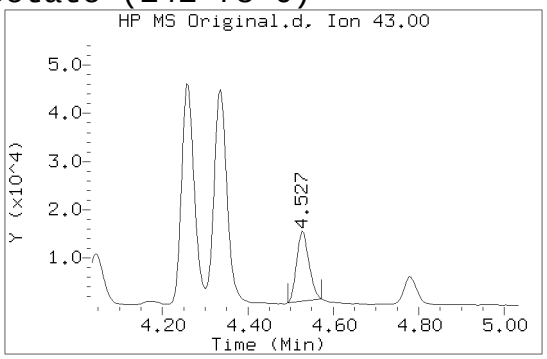
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Inj Date : 10-JUN-2024 09:47
InstruID : VOA9.i
LabSampID : VSTD050

Ethyl Acetate (141-78-6)

Reason Code:

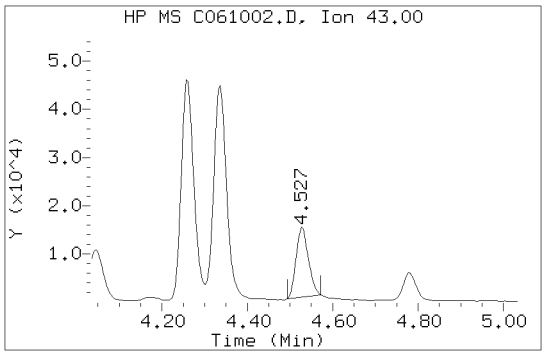
BEFORE

MASS
43
AREA
29376
HEIGHT
14515
21-Jun-2024
17:30
RUCHA
PATEL



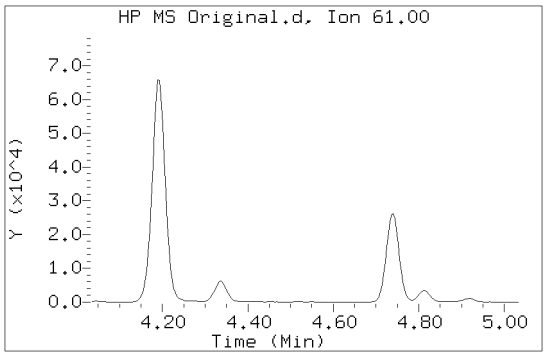
AFTER

MASS
43
AREA
29376
HEIGHT
14515
21-Jun-2024
17:30
RUCHA
PATEL



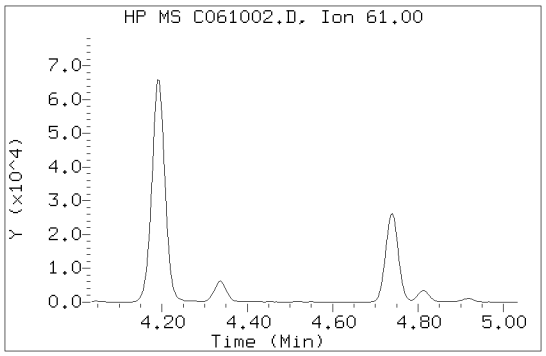
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MASS
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AREA
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HEIGHT
0
21-Jun-2024
17:30
RUCHA
PATEL



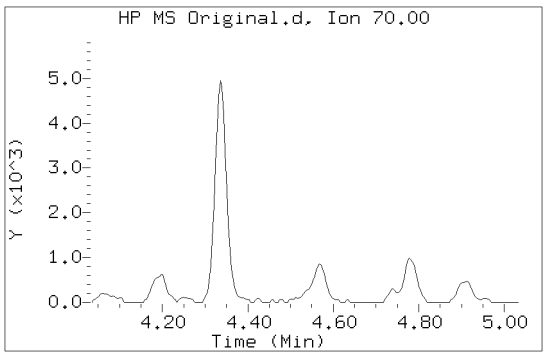
AFTER

MASS
61
AREA
0
HEIGHT
0
21-Jun-2024
17:30
RUCHA
PATEL



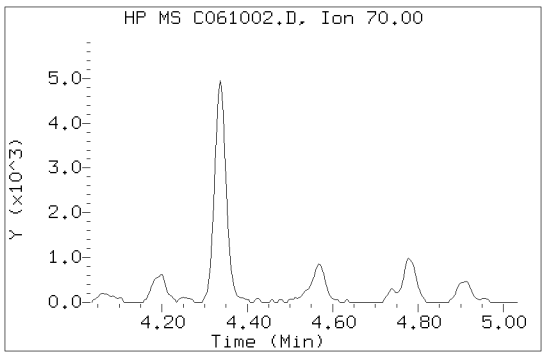
BEFORE

MASS
70
AREA
0
HEIGHT
0
21-Jun-2024
17:30
RUCHA
PATEL



AFTER

MASS
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AREA
0
HEIGHT
0
21-Jun-2024
17:30
RUCHA
PATEL

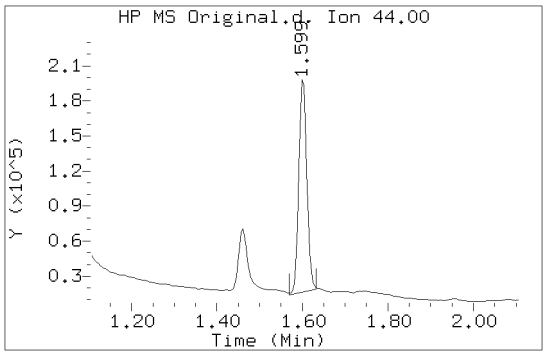


Ethylene oxide (75-21-8)

Reason Code:

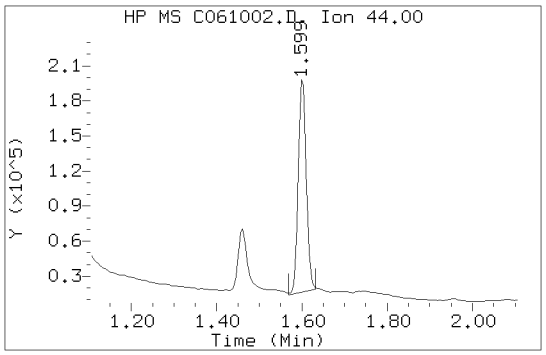
BEFORE

MASS
44
AREA
243387
HEIGHT
181608
21-Jun-2024
17:30
RUCHA
PATEL



AFTER

MASS
44
AREA
243387
HEIGHT
181608
21-Jun-2024
17:30
RUCHA
PATEL

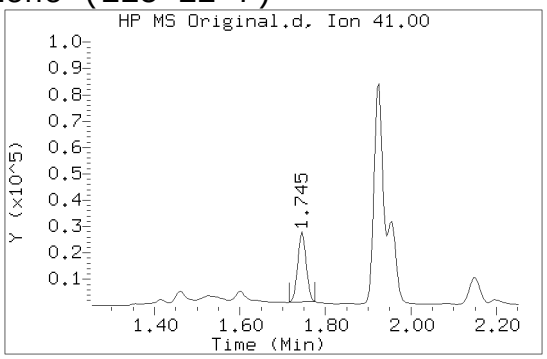


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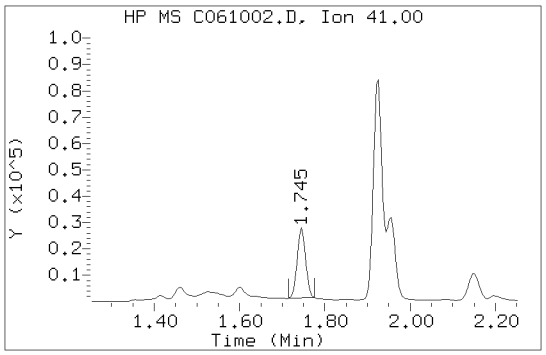
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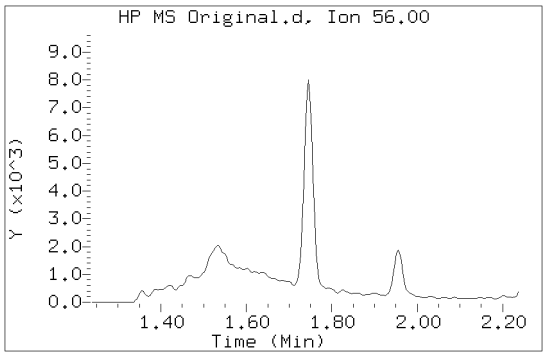
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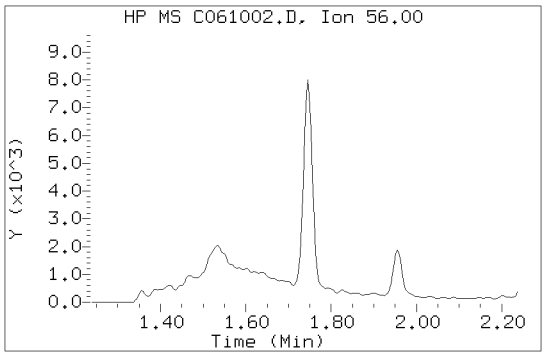
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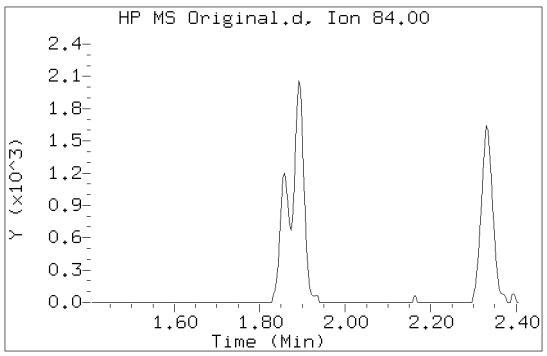
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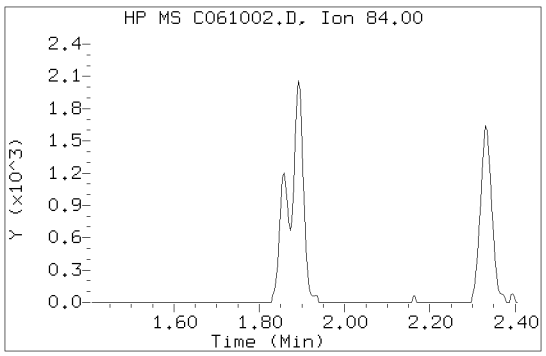
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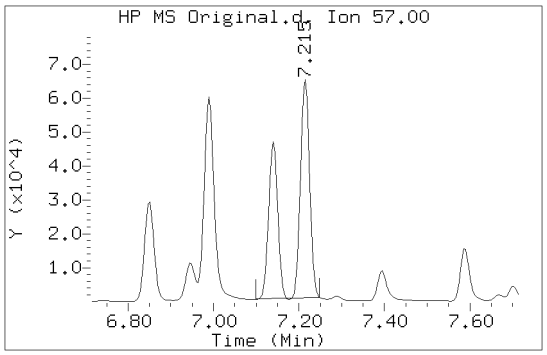
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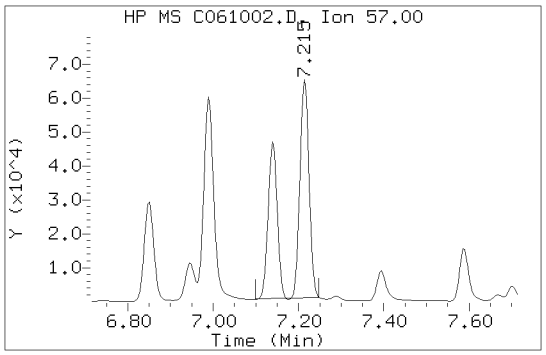
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Data File: \\NAHSTWS005\Target\chem\voa9.i\U240610.b\C061003.D Page 1
Report Date: 21-Jun-2024 17:30

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240610.b\C061003.D
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Operator : TS Inst ID: VOA9.i
Smp Info : VLCSW-240610;VLCSW-240610;3;;LCS
Misc Info : V9;WATER;0;1;
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Cal Date : 08-JUN-2024 16:16 Cal File: C060803.D
Als bottle: 3 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.811	4.811	(1.000)	274868	50.0000	
2 Dichlorodifluoromethane	85	1.156	1.164	(0.240)	36334	20.4612	20.46
3 Chloromethane	50	1.291	1.295	(0.268)	81852	20.3258	20.32
4 Propionitrile	54	4.328	4.331	(0.900)	54236	201.040	201.03(a)
5 Vinyl Chloride	62	1.370	1.377	(0.285)	48944	20.5323	20.53
6 Bromomethane	94	1.602	1.606	(0.333)	23741	21.2263	21.22
7 Chloroethane	64	1.689	1.696	(0.351)	32235	20.4975	20.49
8 Trichlorofluoromethane	101	1.887	1.891	(0.392)	56237	20.7620	20.76
9 Acrolein	56	2.255	2.262	(0.469)	4013	45.3891	45.38
10 Acetone	43	2.401	2.405	(0.499)	34127	40.3955	40.39
11 1,1-Dichloroethene	96	2.322	2.330	(0.483)	32484	20.4859	20.48
12 Isobutyl Alcohol	43	5.280	5.280	(1.097)	109631	406.902	406.90(a)
13 Acetonitrile	39	2.663	2.667	(0.554)	41721	194.879	194.87(a)
14 Allyl Chloride	41	2.663	2.671	(0.554)	98438	19.4412	19.44(a)
15 Iodomethane	142	2.457	2.465	(0.511)	28250	51.2557	51.25
16 Acrylonitrile	53	3.057	3.061	(0.635)	27000	38.2740	38.27
17 Methylene Chloride	84	2.787	2.791	(0.579)	40486	20.7381	20.73
18 Methyl tert-butyl ether	73	3.072	3.076	(0.639)	93329	19.5603	19.56
19 Carbon Disulfide	76	2.513	2.517	(0.522)	195457	40.7996	40.79
20 trans-1,2-Dichloroethene	96	3.049	3.057	(0.634)	35625	20.5010	20.50

21 Vinyl Acetate	43	4.331	4.335 (0.900)	39532	39.1469	39.14
22 1,1-Dichloroethane	63	3.507	3.510 (0.729)	68812	20.5562	20.55

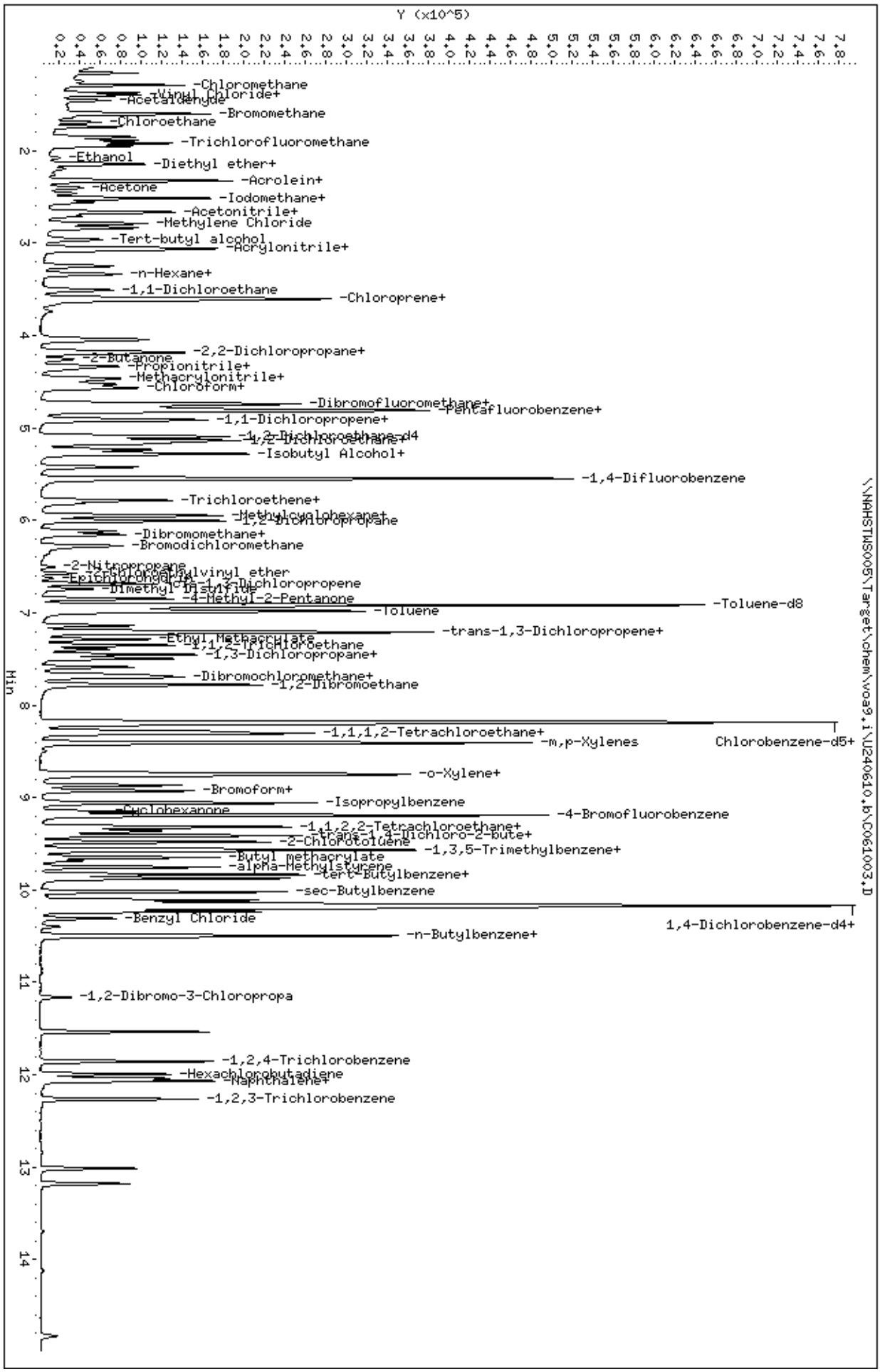
			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)
	23	Chloroprene	53	3.600	3.604	(0.748)	58193	20.2512	20.25
	24	2-Butanone	43	4.257	4.256	(0.885)	41788	41.3645	41.36
	25	Methacrylonitrile	41	4.489	4.489	(0.933)	24387	20.1047	20.10(a)
	26	2,2-Dichloropropane	77	4.174	4.178	(0.868)	52044	20.3395	20.33
	27	cis-1,2-Dichloroethene	96	4.189	4.193	(0.871)	41751	19.9698	19.96
	28	Chloroform	83	4.568	4.568	(0.949)	69767	20.6679	20.66
	29	Bromochloromethane	128	4.463	4.466	(0.928)	20885	20.4451	20.44
$	30	Dibromofluoromethane	113	4.740	4.744	(0.985)	101677	56.6846	56.68
	31	1,1,1-Trichloroethane	97	4.736	4.740	(0.984)	53682	19.6281	19.62
	32	1,1-Dichloropropene	75	4.916	4.916	(0.886)	53622	20.5181	20.51
	33	1,2-Dichloroethane	62	5.171	5.171	(0.932)	56603	20.4480	20.44
	34	Carbon Tetrachloride	117	4.905	4.909	(0.884)	41579	19.4864	19.48
$	35	1,2-Dichloroethane-d4	65	5.092	5.092	(1.058)	120858	56.1453	56.14
*	36	1,4-Difluorobenzene	114	5.546	5.550	(1.000)	404050	50.0000	
	37	Benzene	78	5.134	5.134	(0.926)	156112	19.9433	19.94
	38	Trichloroethene	130	5.782	5.786	(1.043)	40299	20.0127	20.01
	39	Bromodichloromethane	83	6.273	6.273	(1.131)	44424	18.1986	18.19
	40	Methyl Methacrylate	41	5.816	5.816	(1.209)	15511	21.3527	21.35(a)
	41	2-Chloroethylvinyl ether	63	6.573	6.573	(1.185)	13785	32.9769	32.97
	42	1,2-Dichloropropane	63	6.003	6.007	(1.082)	41741	19.6191	19.61
	43	2-Nitropropane	43	6.502	6.502	(1.351)	8597	19.4604	19.46
	44	Dibromomethane	93	6.116	6.116	(1.103)	24416	19.8530	19.85
	45	4-Methyl-2-Pentanone	43	6.847	6.851	(0.837)	79615	38.8485	38.84
	46	cis-1,3-Dichloropropene	75	6.686	6.686	(1.205)	56807	18.7970	18.79
*	47	Chlorobenzene-d5	117	8.181	8.181	(1.000)	362164	50.0000	
$	48	Toluene-d8	98	6.918	6.918	(0.846)	372811	55.1347	55.13(M)
	49	Ethyl Methacrylate	69	7.285	7.285	(1.314)	47809	18.7325	18.73(a)
	50	Toluene	91	6.978	6.978	(0.853)	162948	20.3228	20.32
	51	trans-1,3-Dichloropropene	75	7.192	7.192	(1.297)	44184	18.2192	18.21
	52	2-Hexanone	43	7.210	7.210	(0.881)	56694	41.2633	41.26
	53	1,1,2-Trichloroethane	83	7.349	7.353	(0.898)	31425	20.2974	20.29
	54	1,3-Dichloropropane	76	7.495	7.495	(0.916)	65706	19.6856	19.68
	55	Dibromochloromethane	129	7.687	7.690	(0.940)	33660	18.6685	18.66
	56	Tetrachloroethene	164	7.454	7.454	(0.911)	32374	20.4775	20.47
	57	1,2-Dibromoethane	107	7.780	7.780	(0.951)	35154	19.5146	19.51
	58	1-Chlorohexane	55	8.193	8.193	(1.477)	32057	19.6932	19.69
	59	Chlorobenzene	112	8.208	8.208	(1.003)	104491	20.1602	20.16
	60	1,1,1,2-Tetrachloroethane	131	8.279	8.279	(1.012)	35090	19.5494	19.54
	61	Ethylbenzene	106	8.301	8.305	(1.015)	52795	18.9114	18.91
	62	m,p-Xylenes	106	8.406	8.406	(1.027)	134667	38.8972	38.89
	63	o-Xylene	106	8.744	8.744	(1.069)	65666	19.4280	19.42
	64	Styrene	104	8.759	8.759	(1.071)	106295	19.6329	19.63
	66	Bromoform	173	8.916	8.916	(1.090)	18820	17.4183	17.41
	67	Isopropylbenzene	105	9.059	9.058	(1.107)	161545	19.9359	19.93
	68	1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	51523	20.2406	20.24
$	69	4-Bromofluorobenzene	95	9.190	9.190	(1.123)	138576	55.6665	55.66(M)
*	70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	192325	50.0000	
	71	1,2,3-Trichloropropane	75	9.358	9.358	(0.920)	50071	19.1949	19.19
	72	trans-1,4-Dichloro-2-butene	53	9.373	9.373	(1.146)	10712	19.1132	19.11(a)
	73	n-Propylbenzene	91	9.411	9.411	(0.926)	189578	20.3188	20.31
	74	Bromobenzene	156	9.313	9.313	(0.916)	45516	20.2108	20.21
	75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	124668	20.2141	20.21

76	2-Chlorotoluene	91	9.478	9.478 (0.932)	117829	20.7203	20.72
77	4-Chlorotoluene	91	9.572	9.572 (0.941)	134603	20.2618	20.26

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
78	tert-Butylbenzene	119	9.835	9.834	(0.967)	113602	20.5719	20.57
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	126605	19.2732	19.27
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	153376	20.5923	20.59
82	p-Isopropyltoluene	119	10.146	10.142	(0.998)	129007	20.0822	20.08
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	80156	20.2785	20.27
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	84975	20.5545	20.55
86	Benzyl Chloride	91	10.307	10.307	(1.260)	47258	19.4112	19.41
87	n-Butylbenzene	91	10.491	10.490	(1.032)	114241	20.0692	20.06
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	80079	20.5585	20.55
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	6044	20.0802	20.08
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	50666	19.6646	19.66
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	22789	20.6974	20.69
92	Naphthalene	128	12.065	12.065	(1.187)	118329	20.0240	20.02
93	1,2,3-Trichlorobenzene	180	12.267	12.264	(1.206)	46991	20.2317	20.23
146	Methyl acetate	43	2.705	2.708	(0.562)	34052	21.7694	21.76
138	Freon TF	101	2.326	2.333	(0.483)	33131	21.0493	21.04
141	Cyclohexane	56	4.778	4.781	(0.993)	55453	20.9951	20.99
142	Tetrahydrofuran	42	4.534	4.538	(0.942)	13644	37.0175	37.01
147	Methylcyclohexane	55	5.943	5.943	(1.072)	87563	19.0378	19.03
135	1,4-Dioxane	88	6.161	6.161	(1.280)	9538	441.466	441.46
132	n-Butanol	56	5.820	5.816	(1.210)	21455	418.250	418.24(a)
136	n-Hexane	57	3.334	3.338	(0.693)	38107	21.2326	21.23
139	Diethyl ether	59	2.135	2.142	(0.444)	26856	19.2497	19.24
148	Tert-butyl alcohol	59	2.959	2.963	(0.615)	65049	403.402	403.40
149	Isopropyl alcohol	45	2.555	2.562	(0.531)	50646	403.527	403.52
156	Diisopropyl ether	45	3.612	3.615	(0.751)	121298	19.8572	19.85
162	Butyl acrylate	55	8.729	8.729	(1.067)	61986	19.5304	19.53
164	Dicyclopentadiene	66	10.198	10.194	(1.003)	177703	20.3332	20.33
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	110126	19.2951	19.29
167	Ethanol	45	2.075	2.082	(0.431)	9901	429.748	429.74
172	tert-Butyl formate	59	5.235	5.235	(1.088)	65361	43.3871	43.38
151	4-Methyl-2-pentanol	45	7.210	7.210	(1.300)	205950	381.494	381.49
140	1,3-Butadiene	54	1.396	1.400	(0.290)	21089	21.0712	21.07
182	Epichlorohydrin	57	6.626	6.626	(1.195)	7691	75.2477	75.24
M 94	1,2-Dichloroethylene (total)	96				77376	40.4221	40.42
M 95	Xylenes (total)	106				200333	58.2560	58.25
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	48576	18.9339	18.93
131	Methyl Acrylate	55	4.361	4.365	(0.907)	43154	19.7150	19.71
189	n-Butyl acetate	43	7.702	7.701	(0.941)	60740	19.6485	19.64
134	Cyclohexanone	55	9.149	9.148	(0.900)	36708	368.713	368.71(a)
185	Isoprene	39	2.150	2.153	(0.447)	9240	20.4890	20.48
188	Isopropyl acetate	43	5.280	5.280	(0.952)	109631	20.3216	20.32
150	Allyl alcohol	57	3.334	3.338	(0.693)	38107	421.087	421.08
194	Acetaldehyde	44	1.452	1.460	(0.302)	62198	113.755	113.75
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	20079	17.6062	17.60
133	Ethyl Acrylate	55	5.943	5.943	(1.235)	87563	19.3666	19.36
163	Butyl methacrylate	41	9.647	9.643	(0.949)	44292	24.8240	24.82
159	Propylene oxide	43	2.195	2.198	(0.456)	5876	35.7295	35.72
203	2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	42098	19.3690	19.36
204	Tetrahydrothiophene	60	7.668	7.668	(0.937)	38771	18.9372	18.93(A)
205	sec-Butyl Ether	57	7.214	7.214	(0.882)	45101	12.0785	12.07(A)
187	n-Amyl acetate	43	8.927	8.927	(1.091)	64249	20.6529	20.65

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.



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Sample Info: VLCSW-240610;VLCSW-240610;3;LCS
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

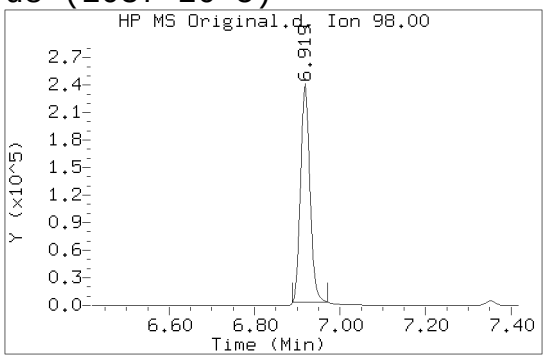
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LabSampID : VLCSW-240610

Toluene-d8 (2037-26-5)

Reason Code:

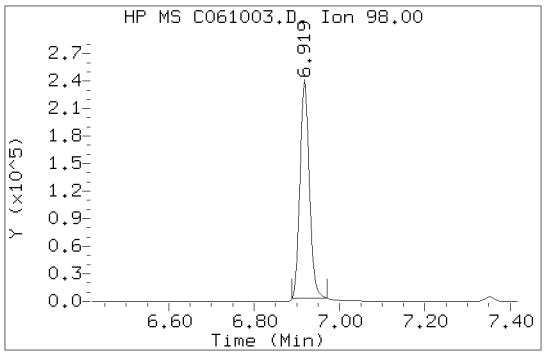
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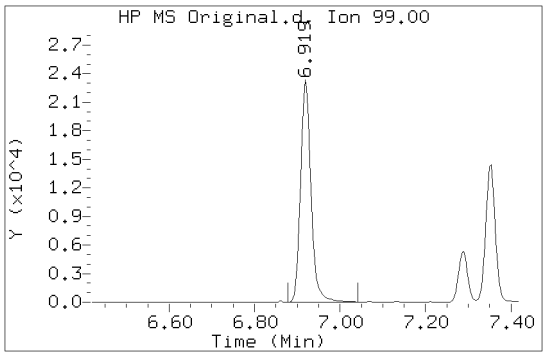
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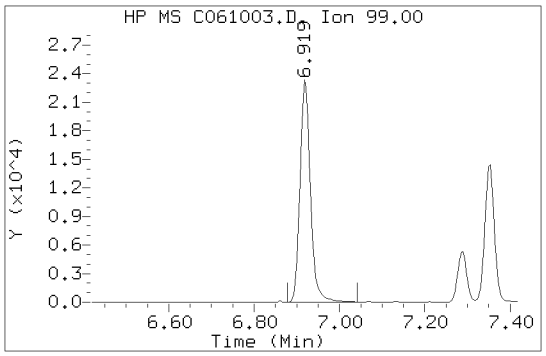
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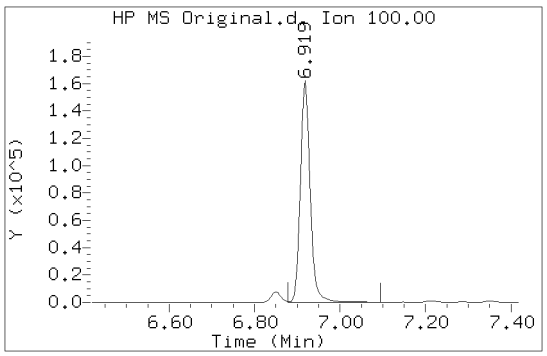
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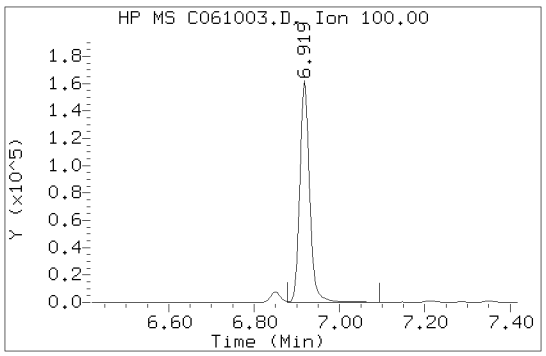
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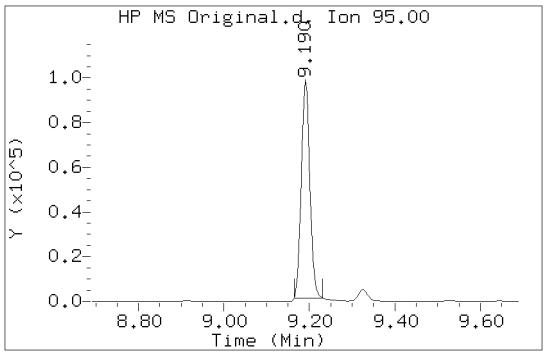


4-Bromofluorobenzene (460-00-4)

Reason Code: MPT

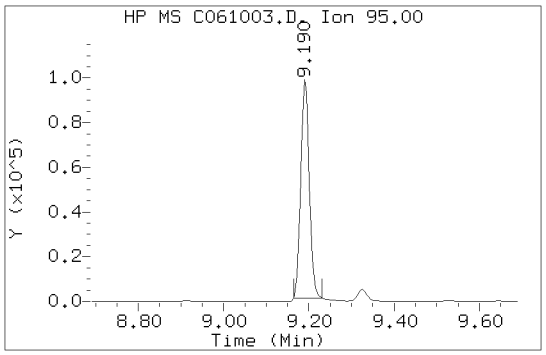
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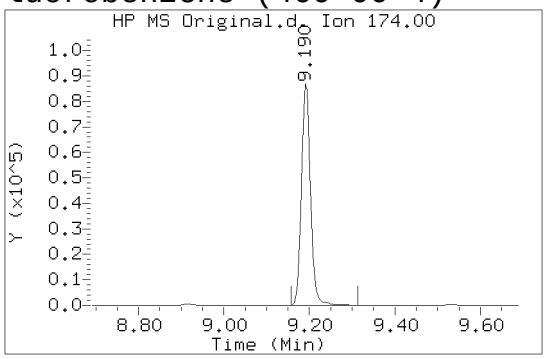
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InstruID : VOA9.i
LabSampID : VLCSW-240610

4-Bromofluorobenzene (460-00-4)

Reason Code: MPT

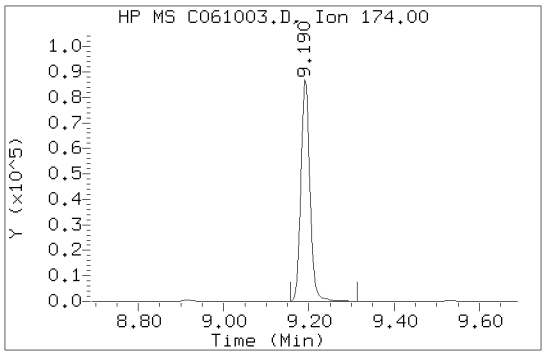
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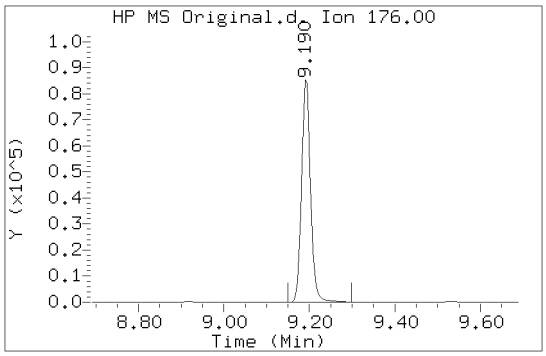
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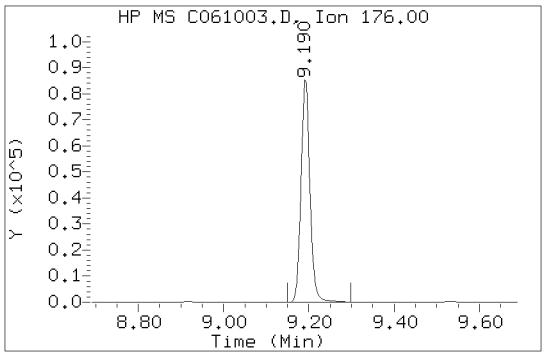
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Data File: \\NAHSTWS005\Target\chem\voa9.i\U240610.b\C061004.D Page 1
Report Date: 21-Jun-2024 17:30

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240610.b\C061004.D
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Inj Date : 10-JUN-2024 10:30
Operator : TS Inst ID: VOA9.i
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Misc Info : V9;WATER;0;1;
Comment   :
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Meth Date : 21-Jun-2024 17:30 VOA9.i Quant Type: ISTD
Cal Date : 08-JUN-2024 16:16 Cal File: C060803.D
Als bottle: 3 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1	Pentafluorobenzene	168	4.815	4.811	(1.000)	271545	50.0000	
2	Dichlorodifluoromethane	85	1.171	1.164	(0.243)	34363	19.6026	19.60
3	Chloromethane	50	1.303	1.295	(0.271)	76903	19.1782	19.17
4	Propionitrile	54	4.339	4.331	(0.901)	52430	196.550	196.54(a)
5	Vinyl Chloride	62	1.381	1.377	(0.287)	46469	19.7416	19.74
6	Bromomethane	94	1.617	1.606	(0.336)	22359	20.2463	20.24
7	Chloroethane	64	1.704	1.696	(0.354)	29942	19.2417	19.24
8	Trichlorofluoromethane	101	1.899	1.891	(0.394)	54333	20.3045	20.30
9	Acrolein	56	2.266	2.262	(0.471)	3577	40.7356	40.73
10	Acetone	43	2.412	2.405	(0.501)	31942	37.9760	37.97
11	1,1-Dichloroethene	96	2.333	2.330	(0.485)	31462	20.0891	20.08
12	Isobutyl Alcohol	43	5.284	5.280	(1.097)	103882	390.594	390.59(a)
13	Acetonitrile	39	2.675	2.667	(0.555)	40579	191.762	191.76(a)
14	Allyl Chloride	41	2.675	2.671	(0.555)	96977	19.3848	19.38(a)
15	Iodomethane	142	2.472	2.465	(0.513)	27709	50.9110	50.91
16	Acrylonitrile	53	3.068	3.061	(0.637)	27568	39.6315	39.63
17	Methylene Chloride	84	2.798	2.791	(0.581)	39072	20.2311	20.23
18	Methyl tert-butyl ether	73	3.083	3.076	(0.640)	92001	19.5163	19.51
19	Carbon Disulfide	76	2.525	2.517	(0.524)	183878	38.9075	38.90
20	trans-1,2-Dichloroethene	96	3.061	3.057	(0.636)	34680	20.1970	20.19

21 Vinyl Acetate	43	4.339	4.335 (0.901)	40301	40.4130	40.41
22 1,1-Dichloroethane	63	3.514	3.510 (0.730)	65519	19.7895	19.78

			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)
	23	Chloroprene	53	3.612	3.604	(0.750)	55226	19.4693	19.46
	24	2-Butanone	43	4.264	4.256	(0.886)	42142	42.2812	42.28
	25	Methacrylonitrile	41	4.496	4.489	(0.934)	21090	17.6330	17.63(a)
	26	2,2-Dichloropropane	77	4.182	4.178	(0.868)	48660	19.2786	19.27
	27	cis-1,2-Dichloroethene	96	4.197	4.193	(0.872)	39770	19.2434	19.24
	28	Chloroform	83	4.571	4.568	(0.949)	66277	19.8561	19.85
	29	Bromochloromethane	128	4.470	4.466	(0.928)	19896	19.6930	19.69
$	30	Dibromofluoromethane	113	4.748	4.744	(0.986)	97430	54.9625	54.96
	31	1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	52414	19.3990	19.39
	32	1,1-Dichloropropene	75	4.924	4.916	(0.887)	49819	19.4728	19.47
	33	1,2-Dichloroethane	62	5.175	5.171	(0.932)	53746	19.7862	19.78
	34	Carbon Tetrachloride	117	4.909	4.909	(0.885)	39711	19.0034	19.00
$	35	1,2-Dichloroethane-d4	65	5.096	5.092	(1.058)	117688	55.3224	55.32
*	36	1,4-Difluorobenzene	114	5.550	5.550	(1.000)	395955	50.0000	
	37	Benzene	78	5.137	5.134	(0.926)	151251	19.7136	19.71
	38	Trichloroethene	130	5.786	5.786	(1.043)	38944	19.7348	19.73
	39	Bromodichloromethane	83	6.277	6.273	(1.131)	42800	17.8918	17.89
	40	Methyl Methacrylate	41	5.824	5.816	(1.209)	14108	19.7530	19.75(a)
	41	2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	14572	35.1970	35.19
	42	1,2-Dichloropropane	63	6.007	6.007	(1.082)	40740	19.5392	19.53
	43	2-Nitropropane	43	6.506	6.502	(1.351)	8376	19.2299	19.22
	44	Dibromomethane	93	6.116	6.116	(1.102)	23687	19.6507	19.65
	45	4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	78362	39.1630	39.16
	46	cis-1,3-Dichloropropene	75	6.689	6.686	(1.205)	54020	18.2883	18.28
*	47	Chlorobenzene-d5	117	8.181	8.181	(1.000)	353494	50.0000	
$	48	Toluene-d8	98	6.918	6.918	(0.846)	369225	55.9568	55.95(M)
	49	Ethyl Methacrylate	69	7.289	7.285	(1.313)	48668	19.3976	19.39(a)
	50	Toluene	91	6.978	6.978	(0.853)	154679	19.7494	19.74
	51	trans-1,3-Dichloropropene	75	7.196	7.192	(1.297)	43777	18.3968	18.39
	52	2-Hexanone	43	7.214	7.210	(0.882)	56807	42.4223	42.42
	53	1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	30706	20.3204	20.32
	54	1,3-Dichloropropane	76	7.495	7.495	(0.916)	64653	19.8504	19.85
	55	Dibromochloromethane	129	7.690	7.690	(0.940)	32617	18.5446	18.54
	56	Tetrachloroethene	164	7.454	7.454	(0.911)	31119	20.1646	20.16
	57	1,2-Dibromoethane	107	7.780	7.780	(0.951)	34290	19.5019	19.50
	58	1-Chlorohexane	55	8.193	8.193	(1.476)	31678	19.8743	19.87
	59	Chlorobenzene	112	8.208	8.208	(1.003)	102610	20.2872	20.28
	60	1,1,1,2-Tetrachloroethane	131	8.279	8.279	(1.012)	33496	19.1347	19.13
	61	Ethylbenzene	106	8.305	8.305	(1.015)	50825	18.6523	18.65
	62	m,p-Xylenes	106	8.406	8.406	(1.027)	128927	38.1526	38.15
	63	o-Xylene	106	8.744	8.744	(1.069)	62826	19.0437	19.04
	64	Styrene	104	8.759	8.759	(1.071)	102444	19.3857	19.38
	66	Bromoform	173	8.916	8.916	(1.090)	18631	17.6259	17.62
	67	Isopropylbenzene	105	9.059	9.058	(1.107)	155051	19.6037	19.60
	68	1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	50988	19.9910	19.99
$	69	4-Bromofluorobenzene	95	9.190	9.190	(1.123)	135708	55.8558	55.85(M)
*	70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	192640	50.0000	
	71	1,2,3-Trichloropropane	75	9.359	9.358	(0.920)	49549	18.9568	18.95
	72	trans-1,4-Dichloro-2-butene	53	9.374	9.373	(1.146)	10860	19.8526	19.85(a)
	73	n-Propylbenzene	91	9.411	9.411	(0.926)	181268	19.3963	19.39
	74	Bromobenzene	156	9.314	9.313	(0.916)	44434	19.6901	19.69
	75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	122396	19.8132	19.81

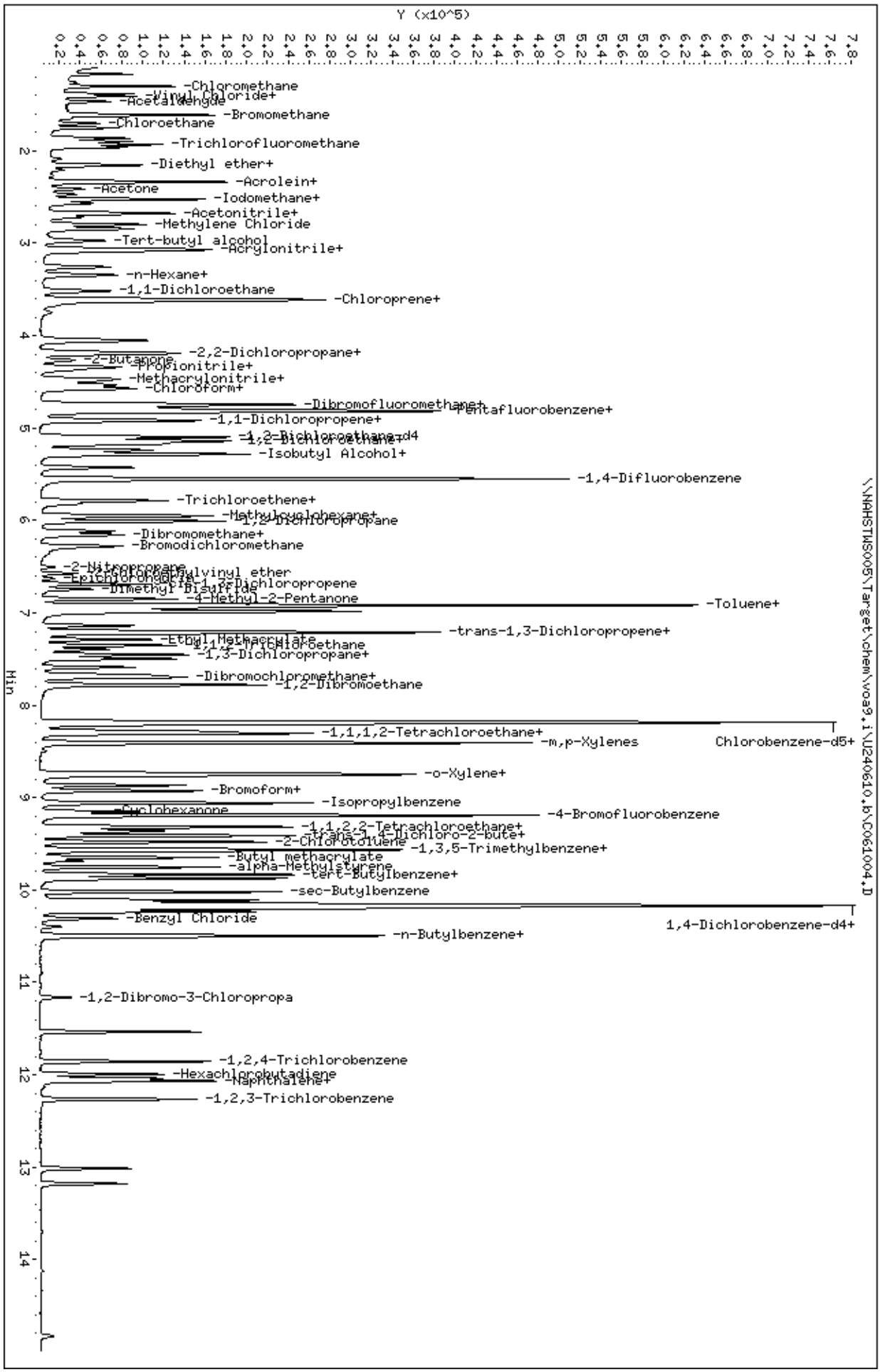
76	2-Chlorotoluene	91	9.478	9.478 (0.932)	112695	19.7697	19.76
77	4-Chlorotoluene	91	9.572	9.572 (0.941)	129925	19.5130	19.51

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240610.b\C061004.D Page 3
Report Date: 21-Jun-2024 17:30

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
78	tert-Butylbenzene	119	9.835	9.834	(0.967)	107843	19.4971	19.49
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	121145	18.4119	18.41
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	144201	19.3288	19.32
82	p-Isopropyltoluene	119	10.142	10.142	(0.997)	124600	19.3644	19.36
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	79436	20.0576	20.05
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	81194	19.5757	19.57
86	Benzyl Chloride	91	10.307	10.307	(1.260)	47633	20.0535	20.05
87	n-Butylbenzene	91	10.491	10.490	(1.032)	109922	19.2897	19.28
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	78117	20.0044	20.00
89	1,2-Dibromo-3-Chloropropane	155	11.162	11.165	(1.098)	5887	19.5436	19.54
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	48921	18.9716	18.97
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	21274	19.3114	19.31
92	Naphthalene	128	12.065	12.065	(1.187)	116787	19.7405	19.74
93	1,2,3-Trichlorobenzene	180	12.267	12.264	(1.206)	45311	19.4865	19.48
146	Methyl acetate	43	2.716	2.708	(0.564)	34517	22.3659	22.36
138	Freon TF	101	2.337	2.333	(0.485)	31851	20.4961	20.49
141	Cyclohexane	56	4.785	4.781	(0.994)	52157	19.9549	19.95
142	Tetrahydrofuran	42	4.541	4.538	(0.943)	13621	37.4581	37.45
147	Methylcyclohexane	55	5.947	5.943	(1.072)	83901	18.6266	18.62
135	1,4-Dioxane	88	6.165	6.161	(1.280)	9169	428.820	428.81
132	n-Butanol	56	5.820	5.816	(1.209)	20184	400.258	400.25(a)
136	n-Hexane	57	3.346	3.338	(0.695)	36324	20.4819	20.48
139	Diethyl ether	59	2.150	2.142	(0.447)	27403	19.9082	19.90
148	Tert-butyl alcohol	59	2.971	2.963	(0.617)	65773	413.222	413.22
149	Isopropyl alcohol	45	2.570	2.562	(0.534)	51786	418.222	418.22
156	Diisopropyl ether	45	3.623	3.615	(0.752)	118222	19.5833	19.58
162	Butyl acrylate	55	8.729	8.729	(1.067)	63157	20.3850	20.38
164	Dicyclopentadiene	66	10.198	10.194	(1.003)	168928	19.2750	19.27
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	108697	19.0100	19.01
167	Ethanol	45	2.090	2.082	(0.434)	10237	450.960	450.96
172	tert-Butyl formate	59	5.239	5.235	(1.088)	63843	42.8731	42.87
151	4-Methyl-2-pentanol	45	7.214	7.210	(1.300)	207555	391.403	391.40
140	1,3-Butadiene	54	1.408	1.400	(0.292)	19955	20.1914	20.19
182	Epichlorohydrin	57	6.629	6.626	(1.195)	7977	79.5651	79.56
M 94	1,2-Dichloroethylene (total)	96				74450	39.3530	39.35
M 95	Xylenes (total)	106				191753	56.9010	56.90
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	47684	18.5559	18.55
131	Methyl Acrylate	55	4.369	4.365	(0.907)	42235	19.5305	19.53
189	n-Butyl acetate	43	7.702	7.701	(0.941)	59911	19.8398	19.83
134	Cyclohexanone	55	9.149	9.148	(0.900)	37155	372.585	372.58(a)
185	Isoprene	39	2.161	2.153	(0.449)	8539	19.1643	19.16
188	Isopropyl acetate	43	5.284	5.280	(0.952)	103775	19.6114	19.61
150	Allyl alcohol	57	3.346	3.338	(0.695)	36324	406.433	406.43
194	Acetaldehyde	44	1.468	1.460	(0.305)	68021	127.303	127.30
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	19105	17.2065	17.20
133	Ethyl Acrylate	55	5.947	5.943	(1.235)	83901	18.8005	18.80
163	Butyl methacrylate	41	9.647	9.643	(0.949)	42442	23.6508	23.65
159	Propylene oxide	43	2.202	2.198	(0.457)	5816	35.8032	35.80
203	2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	39927	18.3906	18.39
204	Tetrahydrothiophene	60	7.668	7.668	(0.937)	38317	19.1801	19.18(A)
205	sec-Butyl Ether	57	7.214	7.214	(0.882)	45848	12.5311	12.53(A)
187	n-Amyl acetate	43	8.927	8.927	(1.091)	65297	21.4496	21.44

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.



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Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

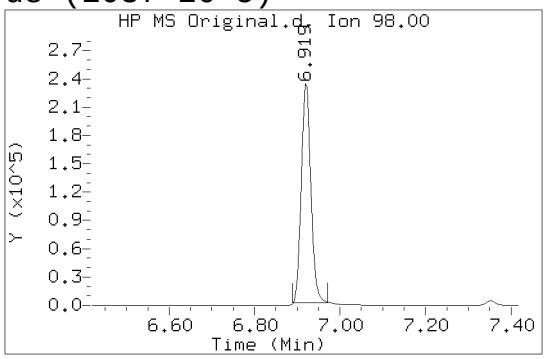
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Inj Date : 10-JUN-2024 10:30
InstruID : VOA9.i
LabSampID : VLCSDW-240610

Toluene-d8 (2037-26-5)

Reason Code: MPT

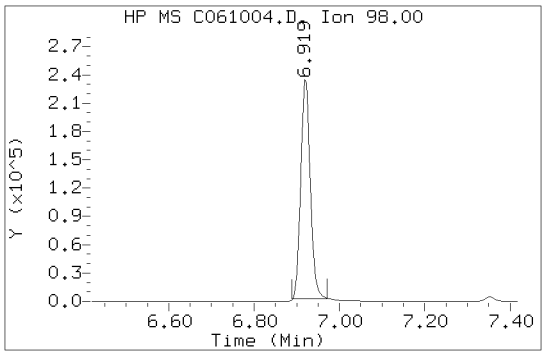
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21-Jun-2024
17:30
RUCHA
PATEL



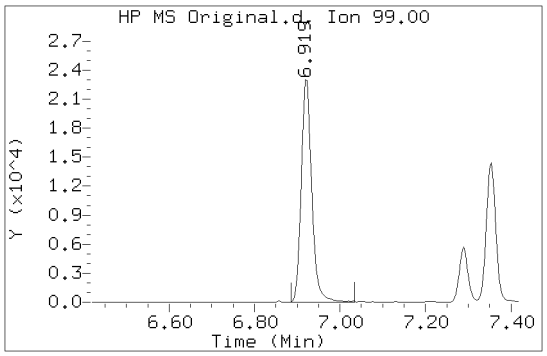
AFTER

MASS
98
AREA
369225
HEIGHT
232078
21-Jun-2024
17:30
RUCHA
PATEL



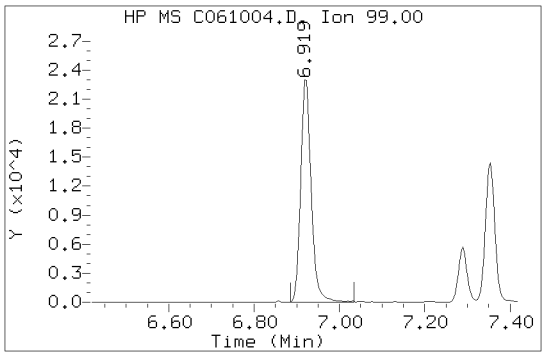
BEFORE

MASS
99
AREA
40349
HEIGHT
22984
21-Jun-2024
17:30
RUCHA
PATEL



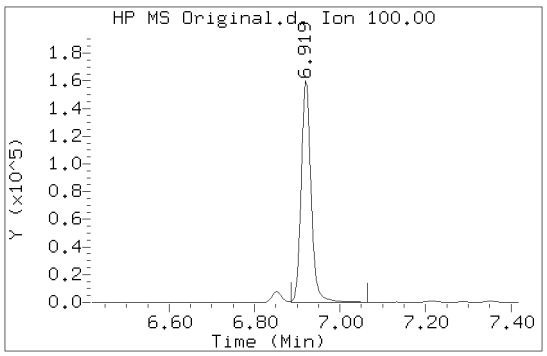
AFTER

MASS
99
AREA
40349
HEIGHT
22984
21-Jun-2024
17:30
RUCHA
PATEL



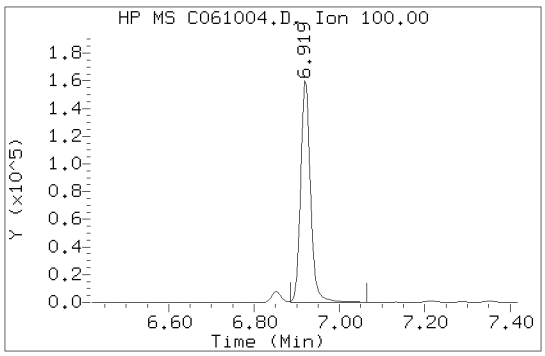
BEFORE

MASS
100
AREA
262194
HEIGHT
160011
21-Jun-2024
17:30
RUCHA
PATEL



AFTER

MASS
100
AREA
262194
HEIGHT
160011
21-Jun-2024
17:30
RUCHA
PATEL

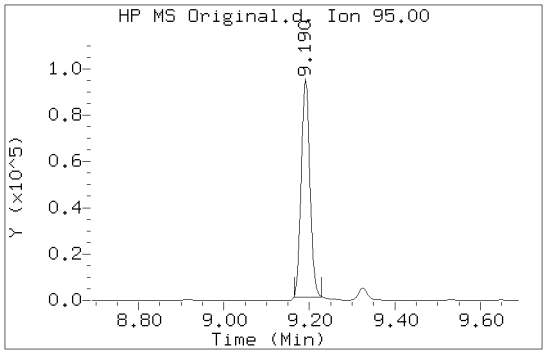


4-Bromofluorobenzene (460-00-4)

Reason Code: MPT

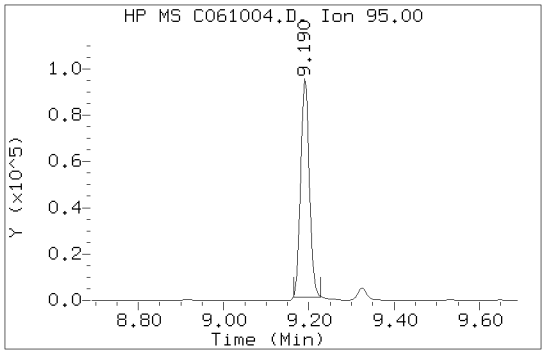
BEFORE

MASS
95
AREA
135708
HEIGHT
94286
21-Jun-2024
17:30
RUCHA
PATEL



AFTER

MASS
95
AREA
135708
HEIGHT
94286
21-Jun-2024
17:30
RUCHA
PATEL



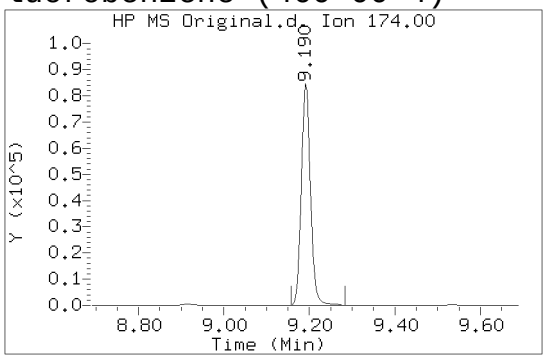
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240610.b\C061004.D
Inj Date : 10-JUN-2024 10:30
InstruID : VOA9.i
LabSampID : VLCSDW-240610

4-Bromofluorobenzene (460-00-4)

Reason Code: MPT

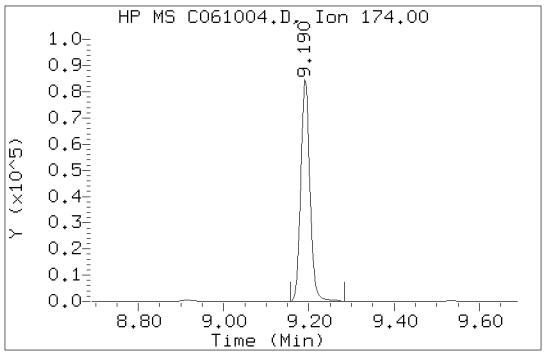
BEFORE

MASS
174
AREA
129354
HEIGHT
84640
21-Jun-2024
17:30
RUCHA
PATEL



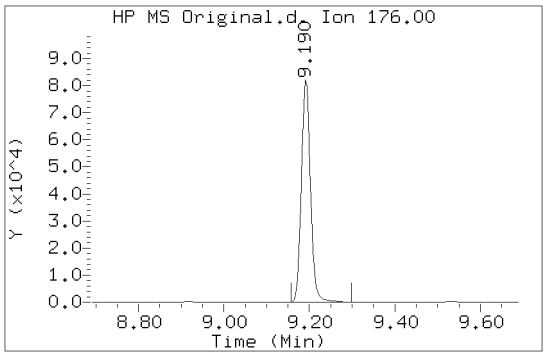
AFTER

MASS
174
AREA
129354
HEIGHT
84640
21-Jun-2024
17:30
RUCHA
PATEL



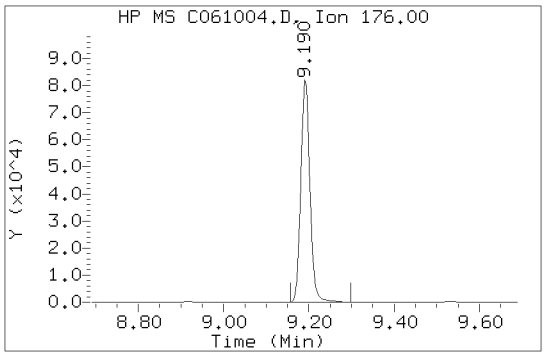
BEFORE

MASS
176
AREA
124406
HEIGHT
82065
21-Jun-2024
17:30
RUCHA
PATEL



AFTER

MASS
176
AREA
124406
HEIGHT
82065
21-Jun-2024
17:30
RUCHA
PATEL



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240610.b\C061006.D Page 1
Report Date: 21-Jun-2024 17:30

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240610.b\C061006.D
Lab Smp Id: VBLKW-240610 Client Smp ID: VBLKW-240610
Inj Date : 10-JUN-2024 11:13
Operator : TS Inst ID: VOA9.i
Smp Info : VBLKW-240610;VBLKW-240610;3;;BLANK
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240610.b\8260C.m
Meth Date : 21-Jun-2024 17:30 VOA9.i Quant Type: ISTD
Cal Date : 08-JUN-2024 16:16 Cal File: C060803.D
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.812	4.811	(1.000)	271895	50.0000	(H)
$ 30 Dibromofluoromethane	113	4.740	4.744	(0.985)	98224	55.3434	55.34
$ 35 1,2-Dichloroethane-d4	65	5.089	5.092	(1.058)	123929	58.2508	58.25
* 36 1,4-Difluorobenzene	114	5.546	5.550	(1.000)	399825	50.0000	
* 47 Chlorobenzene-d5	117	8.182	8.181	(1.000)	359076	50.0000	
$ 48 Toluene-d8	98	6.918	6.918	(0.846)	374926	55.9372	55.93(M)
$ 69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	139815	56.6702	56.67
* 70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	183459	50.0000	

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240610.b\C061006.D

Date : 10-JUN-2024 11:13

Client ID: VBLKW-240610

Instrument: VOA9.i

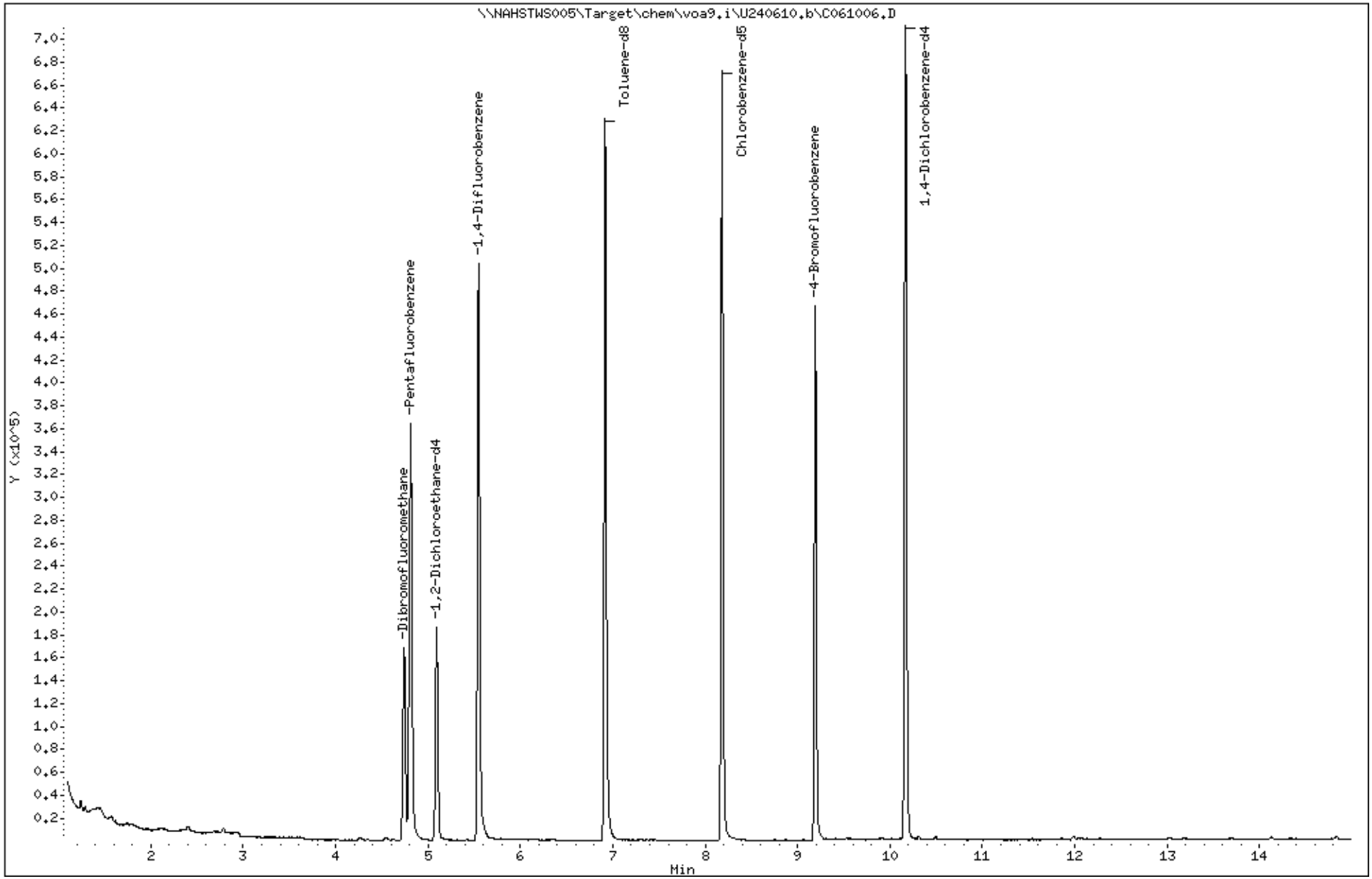
Sample Info: VBLKW-240610;VBLKW-240610;3;;BLANK

Purge Volume: 5.0

Operator: TS

Column phase: DB624

Column diameter: 0.18

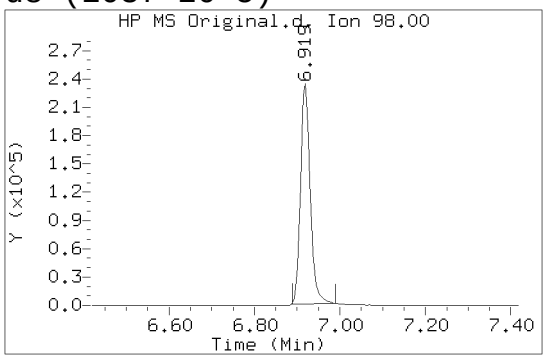


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240610.b\C061006.D
Inj Date : 10-JUN-2024 11:13
InstruID : VOA9.i
LabSampID : VBLKW-240610

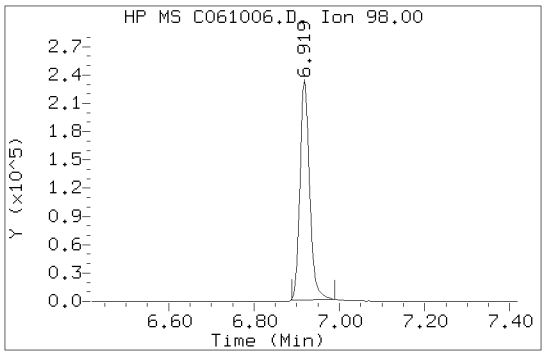
Toluene-d8 (2037-26-5)

Reason Code: MPT

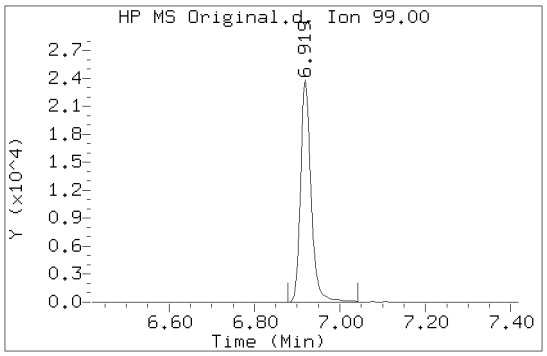
BEFORE
MASS
98
AREA
374926
HEIGHT
233486
21-Jun-2024
17:30
RUCHA
PATEL



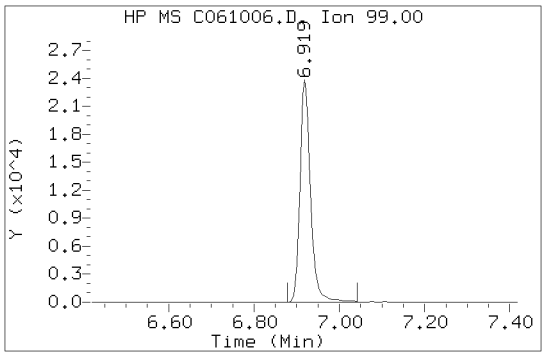
AFTER
MASS
98
AREA
374926
HEIGHT
233486
21-Jun-2024
17:30
RUCHA
PATEL



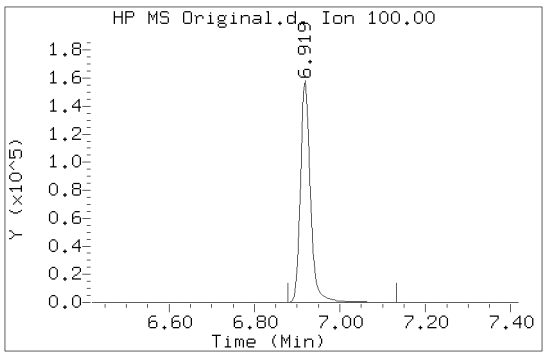
BEFORE
MASS
99
AREA
41669
HEIGHT
23824
21-Jun-2024
17:30
RUCHA
PATEL



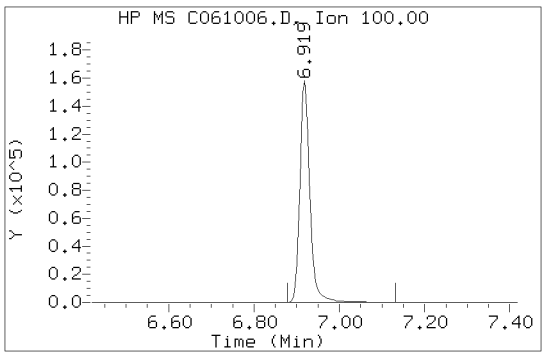
AFTER
MASS
99
AREA
41669
HEIGHT
23824
21-Jun-2024
17:30
RUCHA
PATEL



BEFORE
MASS
100
AREA
262100
HEIGHT
158144
21-Jun-2024
17:30
RUCHA
PATEL



AFTER
MASS
100
AREA
262100
HEIGHT
158144
21-Jun-2024
17:30
RUCHA
PATEL



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240610.b\C061010.D Page 1
Report Date: 22-Jun-2024 12:45

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240610.b\C061010.D
Lab Smp Id: HS24051959-14
Inj Date : 10-JUN-2024 13:02
Operator : TS   Inst ID: VOA9.i
Smp Info : HS24051959-14
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240610.b\8260C.m
Meth Date : 22-Jun-2024 12:44 r.patel   Quant Type: ISTD
Cal Date : 08-JUN-2024 16:16   Cal File: C060803.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

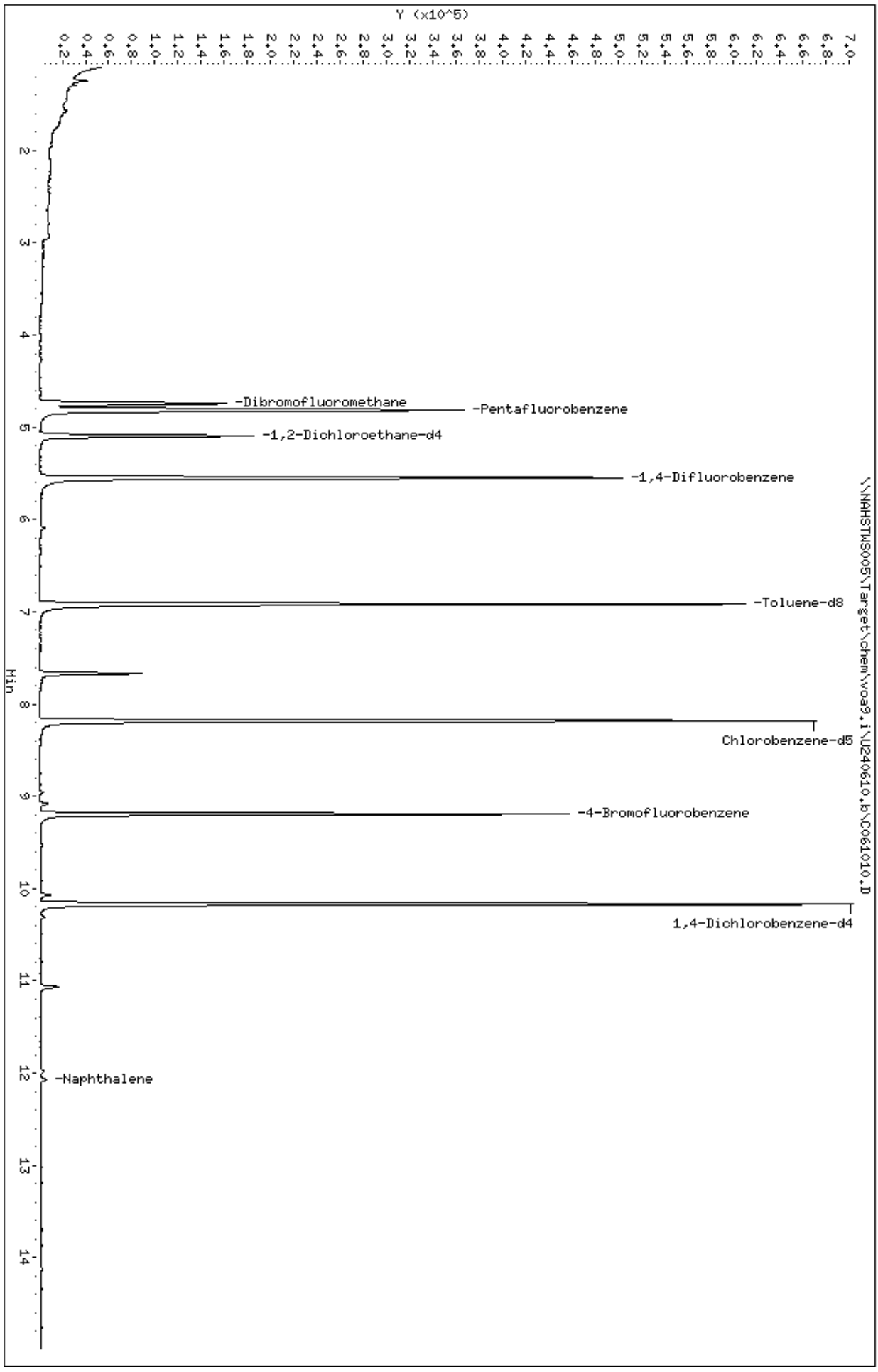
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.811	4.811	(1.000)	273189	50.0000	
$ 30 Dibromofluoromethane	113	4.744	4.744	(0.986)	95859	53.7368	53.73
$ 35 1,2-Dichloroethane-d4	65	5.093	5.093	(1.058)	121380	56.7485	56.74
* 36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	399465	50.0000	
* 47 Chlorobenzene-d5	117	8.181	8.182	(1.000)	354828	50.0000	
$ 48 Toluene-d8	98	6.918	6.918	(0.846)	376370	56.8392	56.83
$ 69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	136754	56.0798	56.07
* 70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	177417	50.0000	
92 Naphthalene	128	12.069	12.065	(1.187)	3700	1.32579	1.32(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).


Data File: \\NAHSTWS005\Target\chem\voa9.i\U240610.b\C061010.D
Date : 10-JUN-2024 13:02
Client ID:
Sample Info: HS24051959-14
Purge Volume: 5.0
Column phase: DB624
Instrument: VOA9.i
Operator: TS
Column diameter: 0.18
Y (x10^5)
Min
-Dibromofluoromethane
-Pentafluorobenzene
-1,2-Dichloroethane-d4
-1,4-Difluorobenzene
-Toluene-d8
Chlorobenzene-d5
-4-Bromofluorobenzene
1,4-Dichlorobenzene-d4
-Naphthalene
\\NAHSTWS005\Target\chem\voa9.i\U240610.b\C061010.D

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240610.b\C061010.D

Date : 10-JUN-2024 13:02

Client ID:

Instrument: VOA9.i

Sample Info: HS24051959-14

Purge Volume: 5.0

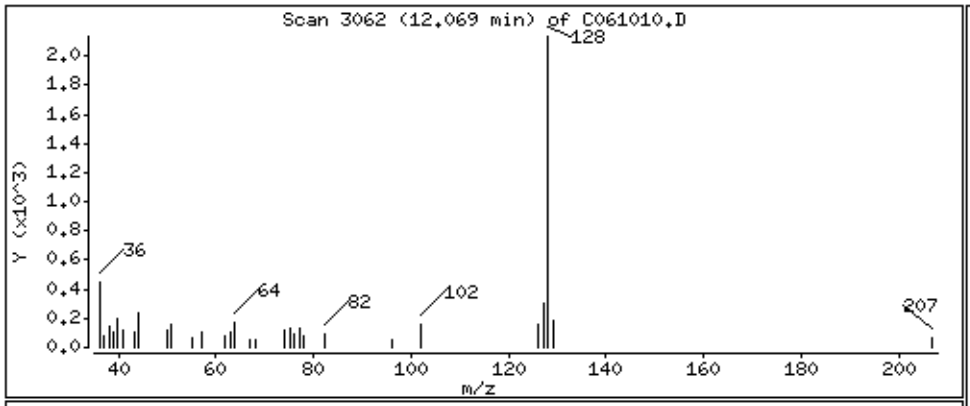
Operator: TS

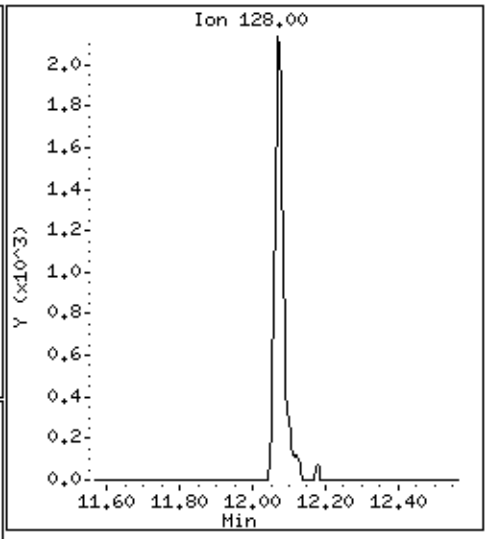
Column phase: DB624

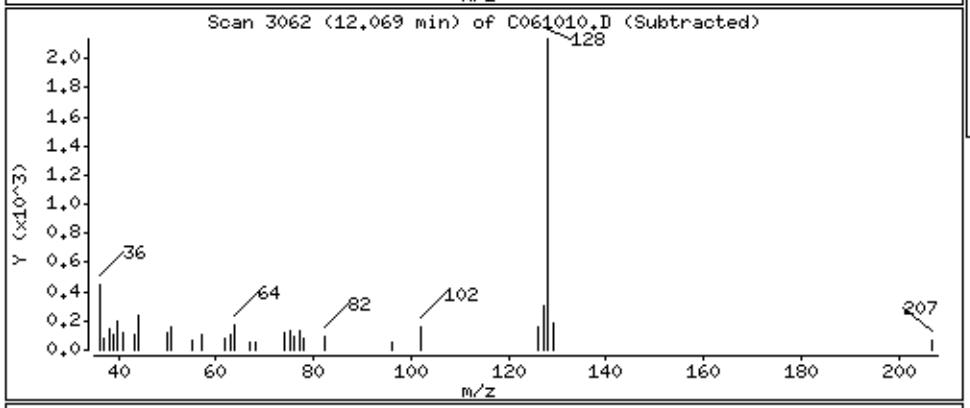
Column diameter: 0.18

92 Naphthalene

Concentration: 1.32 ug/l







Data File : \\NAHSTWS005\Target\chem\voa9.i\U240610.b\C061010.D
Inj Date : 10-JUN-2024 13:02
InstruID : VOA9.i
LabSampID : HS24051959-14

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240610.b\C061012.D Page 1
Report Date: 21-Jun-2024 17:30

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240610.b\C061012.D
Lab Smp Id: HS24051959-14MS Client Smp ID: HS24051959-14MS
Inj Date : 10-JUN-2024 13:48
Operator : TS Inst ID: VOA9.i
Smp Info : HS24051959-14MS;HS24051959-14MS;3;;MS
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240610.b\8260C.m
Meth Date : 21-Jun-2024 17:30 VOA9.i Quant Type: ISTD
Cal Date : 08-JUN-2024 16:16 Cal File: C060803.D
Als bottle: 11 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.811	4.811	(1.000)	264316	50.0000	
2 Dichlorodifluoromethane	85	1.156	1.164	(0.240)	30326	17.8047	17.80
3 Chloromethane	50	1.291	1.295	(0.268)	69243	17.5071	17.50
4 Propionitrile	54	4.332	4.331	(0.900)	39865	151.765	151.76(a)
5 Vinyl Chloride	62	1.370	1.377	(0.285)	38697	16.9231	16.92
6 Bromomethane	94	1.603	1.606	(0.333)	18091	16.8692	16.86
7 Chloroethane	64	1.689	1.696	(0.351)	25781	16.9615	16.96
8 Trichlorofluoromethane	101	1.887	1.891	(0.392)	46548	17.8710	17.87
9 Acrolein	56	2.255	2.262	(0.469)	2064	23.1868	23.18
10 Acetone	43	2.401	2.405	(0.499)	21985	25.3563	25.35
11 1,1-Dichloroethene	96	2.322	2.330	(0.483)	26398	17.3509	17.35
12 Isobutyl Alcohol	43	5.280	5.280	(1.097)	78746	305.871	305.87(a)
13 Acetonitrile	39	2.663	2.667	(0.554)	30109	144.605	144.60(a)
14 Allyl Chloride	41	2.663	2.671	(0.554)	70664	14.3154	14.31(a)
15 Iodomethane	142	2.457	2.465	(0.511)	17850	34.3824	34.38
16 Acrylonitrile	53	3.057	3.061	(0.635)	20060	29.0690	29.06
17 Methylene Chloride	84	2.787	2.791	(0.579)	30478	15.9752	15.97
18 Methyl tert-butyl ether	73	3.072	3.076	(0.639)	65366	14.0386	14.03
19 Carbon Disulfide	76	2.510	2.517	(0.522)	151478	33.1062	33.10
20 trans-1,2-Dichloroethene	96	3.050	3.057	(0.634)	28509	17.0102	17.01

21 Vinyl Acetate	43	4.335	4.335 (0.901)	29064	29.8100	29.80
22 1,1-Dichloroethane	63	3.507	3.510 (0.729)	53797	16.5960	16.59

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
23	Chloroprene	53	3.601	3.604	(0.748)	46400	16.8588	16.85
24	2-Butanone	43	4.257	4.256	(0.885)	29830	30.0167	30.01
25	Methacrylonitrile	41	4.489	4.489	(0.933)	16372	14.1174	14.11(a)
26	2,2-Dichloropropane	77	4.174	4.178	(0.868)	38500	15.7715	15.77
27	cis-1,2-Dichloroethene	96	4.189	4.193	(0.871)	32373	16.0389	16.03
28	Chloroform	83	4.564	4.568	(0.949)	53900	16.5115	16.51
29	Bromochloromethane	128	4.463	4.466	(0.928)	15589	15.7303	15.73
$ 30	Dibromofluoromethane	113	4.740	4.744	(0.985)	97476	56.5101	56.51
31	1,1,1-Trichloroethane	97	4.736	4.740	(0.984)	42304	16.0854	16.08
32	1,1-Dichloropropene	75	4.916	4.916	(0.886)	41230	16.4581	16.45
33	1,2-Dichloroethane	62	5.171	5.171	(0.932)	42812	15.8736	15.87
34	Carbon Tetrachloride	117	4.905	4.909	(0.884)	32076	15.6964	15.69
$ 35	1,2-Dichloroethane-d4	65	5.089	5.092	(1.058)	117426	56.7427	56.74
* 36	1,4-Difluorobenzene	114	5.546	5.550	(1.000)	389168	50.0000	
37	Benzene	78	5.134	5.134	(0.926)	122389	16.1708	16.17
38	Trichloroethene	130	5.782	5.786	(1.043)	32272	16.6343	16.63
39	Bromodichloromethane	83	6.273	6.273	(1.131)	33646	14.3104	14.31
40	Methyl Methacrylate	41	5.820	5.816	(1.210)	10445	15.3080	15.30(a)
42	1,2-Dichloropropane	63	6.003	6.007	(1.082)	32408	15.7702	15.77
43	2-Nitropropane	43	6.502	6.502	(1.351)	5509	13.8810	13.88
44	Dibromomethane	93	6.116	6.116	(1.103)	18861	15.8584	15.85
45	4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	61601	31.6241	31.62
46	cis-1,3-Dichloropropene	75	6.686	6.686	(1.205)	40627	14.3754	14.37
* 47	Chlorobenzene-d5	117	8.181	8.181	(1.000)	347240	50.0000	
$ 48	Toluene-d8	98	6.918	6.918	(0.846)	380495	58.7477	58.74
49	Ethyl Methacrylate	69	7.286	7.285	(1.314)	35436	14.7805	14.78(a)
50	Toluene	91	6.978	6.978	(0.853)	128014	16.5517	16.55
51	trans-1,3-Dichloropropene	75	7.192	7.192	(1.297)	31219	13.9341	13.93
52	2-Hexanone	43	7.211	7.210	(0.881)	44566	33.4054	33.40
53	1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	24589	16.3991	16.39
54	1,3-Dichloropropane	76	7.495	7.495	(0.916)	50996	15.8140	15.81
55	Dibromochloromethane	129	7.687	7.690	(0.940)	24979	14.7911	14.79
56	Tetrachloroethene	164	7.454	7.454	(0.911)	25701	16.9347	16.93
57	1,2-Dibromoethane	107	7.780	7.780	(0.951)	26889	15.5786	15.57
58	1-Chlorohexane	55	8.193	8.193	(1.477)	26166	16.3894	16.38
59	Chlorobenzene	112	8.208	8.208	(1.003)	82445	16.4637	16.46
60	1,1,1,2-Tetrachloroethane	131	8.279	8.279	(1.012)	26735	15.6815	15.68
61	Ethylbenzene	106	8.305	8.305	(1.015)	42104	15.7301	15.73
62	m,p-Xylenes	106	8.406	8.406	(1.027)	105620	31.8184	31.81
63	o-Xylene	106	8.744	8.744	(1.069)	50400	15.5523	15.55
64	Styrene	104	8.759	8.759	(1.071)	97806	18.8414	18.84
66	Bromoform	173	8.916	8.916	(1.090)	13596	13.8227	13.82
67	Isopropylbenzene	105	9.059	9.058	(1.107)	127165	16.3676	16.36
68	1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	39344	15.7582	15.75
$ 69	4-Bromofluorobenzene	95	9.190	9.190	(1.123)	141393	59.3231	59.32
* 70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	187212	50.0000	
71	1,2,3-Trichloropropane	75	9.359	9.358	(0.920)	37556	14.6590	14.65
72	trans-1,4-Dichloro-2-butene	53	9.374	9.373	(1.146)	7912	14.7237	14.72(a)
73	n-Propylbenzene	91	9.407	9.411	(0.925)	148175	16.3150	16.31
74	Bromobenzene	156	9.314	9.313	(0.916)	35579	16.1679	16.16
75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	94725	15.7785	15.77
76	2-Chlorotoluene	91	9.479	9.478	(0.932)	91118	16.3907	16.39

77	4-Chlorotoluene	91	9.572	9.572 (0.941)	104441	16.0803	16.08
78	tert-Butylbenzene	119	9.835	9.834 (0.967)	87531	16.2837	16.28

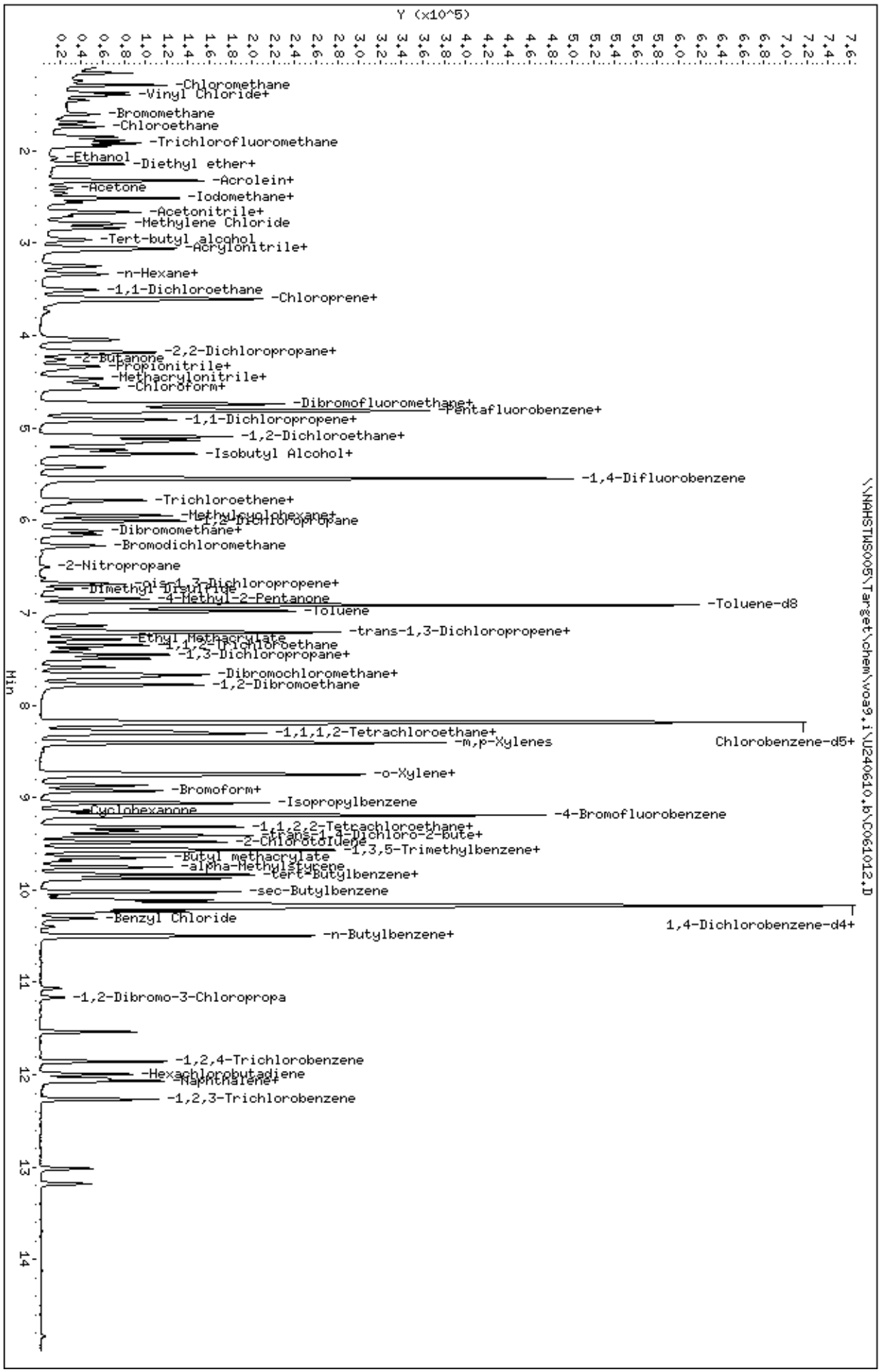
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	90124	14.0944	14.09
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	118289	16.3153	16.31
82	p-Isopropyltoluene	119	10.142	10.142	(0.997)	98659	15.7774	15.77
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	62166	16.0450	16.04
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	65783	16.2044	16.20
86	Benzyl Chloride	91	10.307	10.307	(1.260)	34144	14.5405	14.54
87	n-Butylbenzene	91	10.491	10.490	(1.032)	86464	15.6621	15.66
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	60576	15.8259	15.82
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	4170	14.3894	14.38
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	35617	14.3198	14.31
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	16187	15.1839	15.18
92	Naphthalene	128	12.065	12.065	(1.187)	79475	14.0239	14.02
93	1,2,3-Trichlorobenzene	180	12.268	12.264	(1.206)	32092	14.2740	14.27
146	Methyl acetate	43	2.705	2.708	(0.562)	26011	17.0624	17.06
138	Freon TF	101	2.326	2.333	(0.483)	27714	18.3703	18.37
141	Cyclohexane	56	4.778	4.781	(0.993)	45086	17.6419	17.64
142	Tetrahydrofuran	42	4.538	4.538	(0.943)	9839	26.5555	26.55
147	Methylcyclohexane	55	5.943	5.943	(1.072)	59891	13.6766	13.67
135	1,4-Dioxane	88	6.161	6.161	(1.280)	6475	303.357	303.35
132	n-Butanol	56	5.820	5.816	(1.210)	13730	292.156	292.15(a)
136	n-Hexane	57	3.334	3.338	(0.693)	30445	17.6155	17.61
139	Diethyl ether	59	2.135	2.142	(0.444)	18822	13.8152	13.81
148	Tert-butyl alcohol	59	2.963	2.963	(0.616)	48844	311.841	311.84
149	Isopropyl alcohol	45	2.558	2.562	(0.532)	36904	301.884	301.88
156	Diisopropyl ether	45	3.612	3.615	(0.751)	83660	14.0922	14.09
162	Butyl acrylate	55	8.729	8.729	(1.067)	44356	14.5658	14.56
164	Dicyclopentadiene	66	10.198	10.194	(1.003)	118519	13.7927	13.79
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	69383	12.4032	12.40
167	Ethanol	45	2.079	2.082	(0.432)	7233	320.334	320.33
172	tert-Butyl formate	59	5.235	5.235	(1.088)	46567	31.5726	31.57
151	4-Methyl-2-pentanol	45	7.211	7.210	(1.300)	145243	288.044	288.04
140	1,3-Butadiene	54	1.396	1.400	(0.290)	16682	17.3723	17.37
182	Epichlorohydrin	57	6.626	6.626	(1.195)	3888	39.8022	39.80
M 94	1,2-Dichloroethylene (total)	96				60882	32.9601	32.96
M 95	Xylenes (total)	106				156020	47.1050	47.10
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	33261	13.3185	13.31
131	Methyl Acrylate	55	4.362	4.365	(0.907)	29728	14.1015	14.10
189	n-Butyl acetate	43	7.702	7.701	(0.941)	46459	15.9783	15.97
134	Cyclohexanone	55	9.149	9.148	(0.900)	19012	198.755	198.75(a)
185	Isoprene	39	2.146	2.153	(0.446)	7529	17.3567	17.35
188	Isopropyl acetate	43	5.280	5.280	(0.952)	78746	15.0124	15.01
150	Allyl alcohol	57	3.334	3.338	(0.693)	30445	350.509	350.50
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	11439	11.0480	11.04
133	Ethyl Acrylate	55	5.943	5.943	(1.235)	59891	13.9359	13.93
163	Butyl methacrylate	41	9.647	9.643	(0.949)	29820	16.4469	16.44
203	2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	23202	11.3328	11.33
204	Tetrahydrothiophene	60	7.668	7.668	(0.937)	26702	13.4753	13.47(A)
205	sec-Butyl Ether	57	7.214	7.214	(0.882)	32862	9.46062	9.46(A)
187	n-Amyl acetate	43	8.927	8.927	(1.091)	51116	17.3641	17.36

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

QC Flag Legend

A - Target compound detected but, quantitated amount
exceeded maximum amount.



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Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240610.b\C061012.D
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LabSampID : HS24051959-14MS

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240610.b\C061013.D Page 1
Report Date: 21-Jun-2024 17:30

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240610.b\C061013.D
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Inj Date : 10-JUN-2024 14:09
Operator : TS Inst ID: VOA9.i
Smp Info : HS24051959-14MSD;HS24051959-14MSD;3;;MSD
Misc Info : V9;WATER;0;1;
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Cal Date : 08-JUN-2024 16:16 Cal File: C060803.D
Als bottle: 11 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1	Pentafluorobenzene	168	4.815	4.811	(1.000)	264637	50.0000	
2	Dichlorodifluoromethane	85	1.168	1.164	(0.243)	29316	17.2027	17.20
3	Chloromethane	50	1.303	1.295	(0.271)	64892	16.1882	16.18
4	Propionitrile	54	4.336	4.331	(0.900)	38954	147.923	147.92(a)
5	Vinyl Chloride	62	1.382	1.377	(0.287)	37980	16.5939	16.59
6	Bromomethane	94	1.618	1.606	(0.336)	18035	16.7976	16.79
7	Chloroethane	64	1.704	1.696	(0.354)	24849	16.3093	16.30
8	Trichlorofluoromethane	101	1.899	1.891	(0.394)	45302	17.3715	17.37
9	Acrolein	56	2.266	2.262	(0.471)	3078	35.7008	35.70
10	Acetone	43	2.412	2.405	(0.501)	20078	22.7126	22.71
11	1,1-Dichloroethene	96	2.334	2.330	(0.485)	25831	16.9632	16.96
12	Isobutyl Alcohol	43	5.284	5.280	(1.097)	74716	290.265	290.26(a)
13	Acetonitrile	39	2.675	2.667	(0.556)	28378	135.739	135.73(a)
14	Allyl Chloride	41	2.675	2.671	(0.556)	69293	14.0046	14.00(a)
15	Iodomethane	142	2.469	2.465	(0.513)	19065	36.5797	36.57
16	Acrylonitrile	53	3.068	3.061	(0.637)	19523	28.1948	28.19
17	Methylene Chloride	84	2.799	2.791	(0.581)	30175	15.7839	15.78
18	Methyl tert-butyl ether	73	3.080	3.076	(0.640)	65050	13.9492	13.94
19	Carbon Disulfide	76	2.521	2.517	(0.524)	145544	31.8173	31.81
20	trans-1,2-Dichloroethene	96	3.061	3.057	(0.636)	27781	16.5477	16.54

21 Vinyl Acetate	43	4.339	4.335 (0.901)	28379	29.0595	29.05
22 1,1-Dichloroethane	63	3.515	3.510 (0.730)	51924	15.9763	15.97

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240610.b\C061013.D Page 2
Report Date: 21-Jun-2024 17:30

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	23 Chloroprene	53	3.612	3.604	(0.750)	44786	16.2668	16.26
	24 2-Butanone	43	4.264	4.256	(0.886)	29684	29.8172	29.81
	25 Methacrylonitrile	41	4.497	4.489	(0.934)	16497	14.2062	14.20(a)
	26 2,2-Dichloropropane	77	4.182	4.178	(0.868)	37131	15.2120	15.21
	27 cis-1,2-Dichloroethene	96	4.197	4.193	(0.872)	32088	15.8751	15.87
	28 Chloroform	83	4.572	4.568	(0.949)	53068	16.2290	16.22
	29 Bromochloromethane	128	4.467	4.466	(0.928)	16117	16.2637	16.26
$	30 Dibromofluoromethane	113	4.748	4.744	(0.986)	95910	55.5238	55.52
	31 1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	40344	15.3216	15.32
	32 1,1-Dichloropropene	75	4.920	4.916	(0.887)	39456	16.0204	16.02
	33 1,2-Dichloroethane	62	5.175	5.171	(0.932)	42901	16.1850	16.18
	34 Carbon Tetrachloride	117	4.913	4.909	(0.885)	31593	15.7146	15.71
$	35 1,2-Dichloroethane-d4	65	5.096	5.092	(1.058)	116257	56.0947	56.09
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	382851	50.0000	
	37 Benzene	78	5.138	5.134	(0.926)	119467	16.0425	16.04
	38 Trichloroethene	130	5.786	5.786	(1.043)	30817	16.1455	16.14
	39 Bromodichloromethane	83	6.277	6.273	(1.131)	32720	14.1462	14.14
	40 Methyl Methacrylate	41	5.824	5.816	(1.209)	10041	14.7453	14.74(a)
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	31721	15.6894	15.68
	43 2-Nitropropane	43	6.506	6.502	(1.351)	5537	13.9241	13.92
	44 Dibromomethane	93	6.116	6.116	(1.102)	18305	15.6405	15.64
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	59545	30.5936	30.59
	46 cis-1,3-Dichloropropene	75	6.690	6.686	(1.205)	40149	14.4333	14.43
*	47 Chlorobenzene-d5	117	8.182	8.181	(1.000)	347505	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.846)	374922	57.8292	57.82
	49 Ethyl Methacrylate	69	7.289	7.285	(1.313)	34486	14.6386	14.63(a)
	50 Toluene	91	6.978	6.978	(0.853)	124195	16.0287	16.02
	51 trans-1,3-Dichloropropene	75	7.196	7.192	(1.296)	31455	14.2195	14.21
	52 2-Hexanone	43	7.214	7.210	(0.882)	44100	33.0045	33.00
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	23967	15.9486	15.94
	54 1,3-Dichloropropane	76	7.496	7.495	(0.916)	49708	15.3862	15.38
	55 Dibromochloromethane	129	7.691	7.690	(0.940)	24258	14.3980	14.39
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	25198	16.5882	16.58
	57 1,2-Dibromoethane	107	7.781	7.780	(0.951)	26591	15.3948	15.39
	58 1-Chlorohexane	55	8.193	8.193	(1.476)	25819	16.4450	16.44
	59 Chlorobenzene	112	8.208	8.208	(1.003)	81021	16.1541	16.15
	60 1,1,1,2-Tetrachloroethane	131	8.279	8.279	(1.012)	25918	15.2131	15.21
	61 Ethylbenzene	106	8.305	8.305	(1.015)	40039	14.9472	14.94
	62 m,p-Xylenes	106	8.407	8.406	(1.027)	104064	31.3258	31.32
	63 o-Xylene	106	8.744	8.744	(1.069)	49464	15.2518	15.25
	64 Styrene	104	8.759	8.759	(1.071)	85641	16.4854	16.48
	66 Bromoform	173	8.916	8.916	(1.090)	13646	13.8547	13.85
	67 Isopropylbenzene	105	9.059	9.058	(1.107)	123558	15.8912	15.89
	68 1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	39226	15.7120	15.71
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	139335	58.3951	58.39
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	187181	50.0000	
	71 1,2,3-Trichloropropane	75	9.359	9.358	(0.920)	36526	14.2438	14.24
	72 trans-1,4-Dichloro-2-butene	53	9.374	9.373	(1.146)	8213	15.2723	15.27(a)
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	145235	15.9939	15.99
	74 Bromobenzene	156	9.314	9.313	(0.916)	34868	15.8412	15.84
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	93612	15.5957	15.59
	76 2-Chlorotoluene	91	9.479	9.478	(0.932)	90052	16.1977	16.19

77	4-Chlorotoluene	91	9.572	9.572 (0.941)	101466	15.6150	15.61
78	tert-Butylbenzene	119	9.835	9.834 (0.967)	86348	16.0663	16.06

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240610.b\C061013.D Page 3
Report Date: 21-Jun-2024 17:30

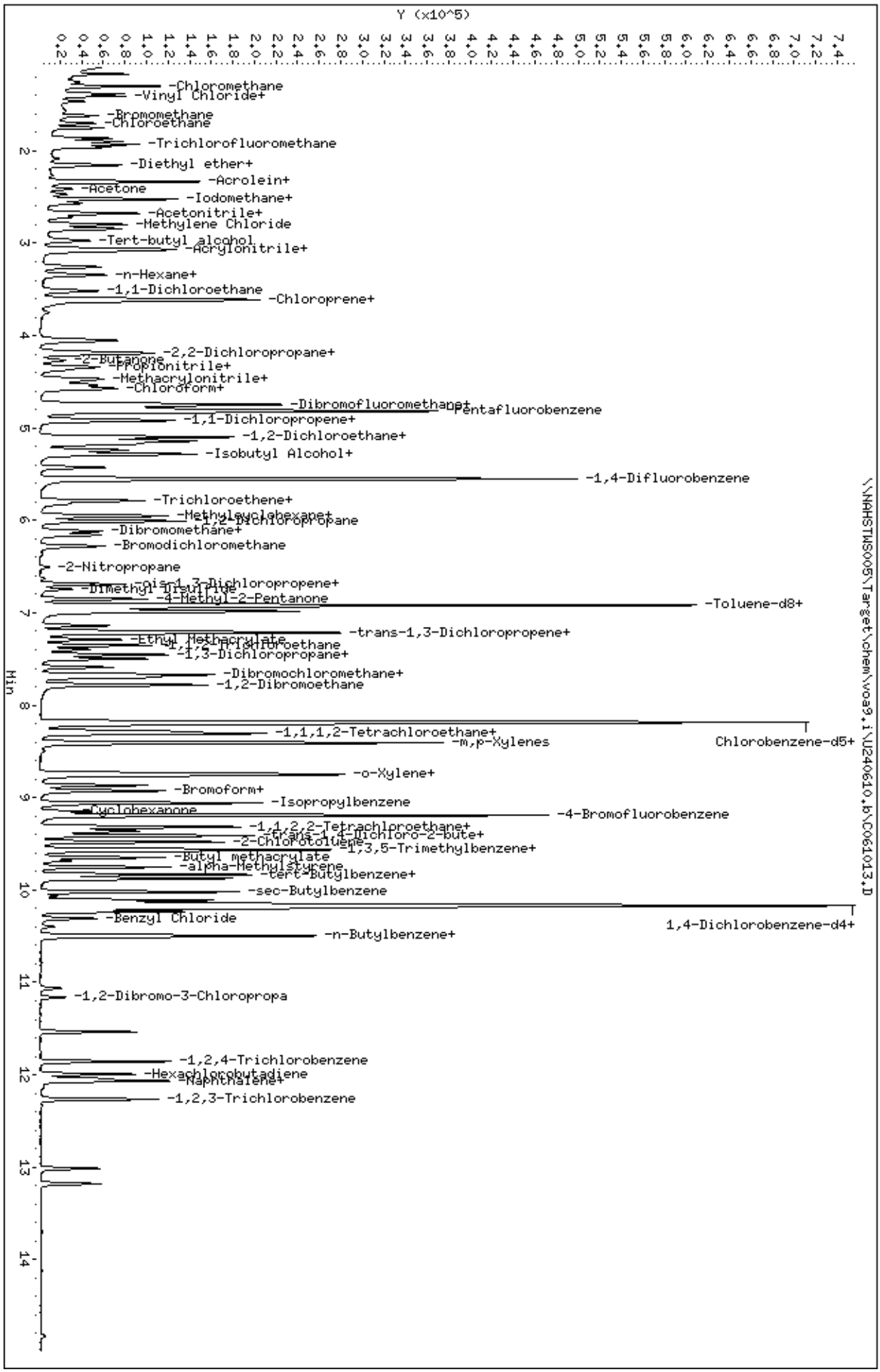
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	89956	14.0704	14.07
81	sec-Butylbenzene	105	10.019	10.018	(0.985)	115425	15.9229	15.92
82	p-Isopropyltoluene	119	10.142	10.142	(0.997)	97896	15.6580	15.65
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	60834	15.6921	15.69
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	64620	15.9084	15.90
86	Benzyl Chloride	91	10.307	10.307	(1.260)	34264	14.5816	14.58
87	n-Butylbenzene	91	10.491	10.490	(1.032)	84749	15.3588	15.35
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	60740	15.8733	15.87
89	1,2-Dibromo-3-Chloropropane	155	11.166	11.165	(1.098)	4173	14.4017	14.40
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	35596	14.3139	14.31
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	15385	14.4478	14.44
92	Naphthalene	128	12.065	12.065	(1.187)	82891	14.6002	14.60
93	1,2,3-Trichlorobenzene	180	12.268	12.264	(1.206)	33342	14.8220	14.82
146	Methyl acetate	43	2.716	2.708	(0.564)	25157	16.4441	16.44
138	Freon TF	101	2.337	2.333	(0.485)	26114	17.3158	17.31
141	Cyclohexane	56	4.782	4.781	(0.993)	43538	16.9903	16.99
142	Tetrahydrofuran	42	4.542	4.538	(0.943)	9040	23.9730	23.97
147	Methylcyclohexane	55	5.947	5.943	(1.072)	58634	13.6131	13.61
135	1,4-Dioxane	88	6.165	6.161	(1.280)	6635	311.139	311.13
132	n-Butanol	56	5.820	5.816	(1.209)	13996	296.706	296.70(a)
136	n-Hexane	57	3.342	3.338	(0.694)	29620	17.1128	17.11
139	Diethyl ether	59	2.146	2.142	(0.446)	18633	13.6510	13.65
148	Tert-butyl alcohol	59	2.971	2.963	(0.617)	48163	306.902	306.90
149	Isopropyl alcohol	45	2.566	2.562	(0.533)	35859	292.506	292.50
156	Diisopropyl ether	45	3.623	3.615	(0.752)	82874	13.9372	13.93
162	Butyl acrylate	55	8.729	8.729	(1.067)	43810	14.3742	14.37
164	Dicyclopentadiene	66	10.198	10.194	(1.003)	115321	13.4109	13.41
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	68683	12.2777	12.27
167	Ethanol	45	2.086	2.082	(0.433)	6830	300.665	300.66
172	tert-Butyl formate	59	5.239	5.235	(1.088)	39304	26.2687	26.26
151	4-Methyl-2-pentanol	45	7.214	7.210	(1.300)	144343	290.651	290.65
140	1,3-Butadiene	54	1.408	1.400	(0.292)	17054	17.7336	17.73
182	Epichlorohydrin	57	6.630	6.626	(1.195)	3773	39.2668	39.26
M 94	1,2-Dichloroethylene (total)	96				59869	32.3611	32.36
M 95	Xylenes (total)	106				153528	47.1174	47.11
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	33889	13.5722	13.57
131	Methyl Acrylate	55	4.373	4.365	(0.908)	29383	13.9199	13.91
189	n-Butyl acetate	43	7.702	7.701	(0.941)	46112	15.8592	15.85
134	Cyclohexanone	55	9.153	9.148	(0.900)	19059	199.258	199.25(a)
185	Isoprene	39	2.158	2.153	(0.448)	8019	18.4659	18.46
188	Isopropyl acetate	43	5.284	5.280	(0.952)	76408	14.7990	14.79
150	Allyl alcohol	57	3.342	3.338	(0.694)	29620	340.707	340.70
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	11326	10.9440	10.94
133	Ethyl Acrylate	55	5.947	5.943	(1.235)	58634	13.6392	13.63
163	Butyl methacrylate	41	9.647	9.643	(0.949)	29879	16.4873	16.48
203	2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	22539	11.0328	11.03
204	Tetrahydrothiophene	60	7.672	7.668	(0.938)	27325	13.7894	13.78(A)
205	sec-Butyl Ether	57	7.214	7.214	(0.882)	32834	9.44724	9.44(A)
187	n-Amyl acetate	43	8.928	8.927	(1.091)	50634	17.2009	17.20

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

QC Flag Legend

A - Target compound detected but, quantitated amount
exceeded maximum amount.



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240610.b\C061013.D
Date : 10-JUN-2024 14:09
Client ID: HS24051959-14HSD
Sample Info: HS24051959-14HSD;HS24051959-14HSD;3;;MSD
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240610.b\C061013.D
Inj Date : 10-JUN-2024 14:09
InstruID : VOA9.i
LabSampID : HS24051959-14MSD

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240610.b\C061041.D Page 1
Report Date: 21-Jun-2024 17:31

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240610.b\C061041.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 10-JUN-2024 19:53
Operator : TS Inst ID: VOA9.i
Smp Info : VSTD050;VSTD050;2;;CCV
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa9.i\U240610.b\8260C.m
Meth Date : 21-Jun-2024 17:31 VOA9.i Quant Type: ISTD
Cal Date : 08-JUN-2024 16:16 Cal File: C060803.D
Als bottle: 27 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.811	4.811	(1.000)	276611	50.0000	
2	Dichlorodifluoromethane	85	1.160	1.160	(0.241)	75852	50.0000	42.07
3	Chloromethane	50	1.291	1.291	(0.268)	178005	50.0000	47.53
4	Propionitrile	54	4.332	4.332	(0.900)	131415	500.000	495.42
5	Vinyl Chloride	62	1.374	1.374	(0.286)	102356	50.0000	42.41
6	Bromomethane	94	1.603	1.603	(0.333)	43315	50.0000	38.29
7	Chloroethane	64	1.693	1.693	(0.352)	67740	50.0000	43.36
8	Trichlorofluoromethane	101	1.891	1.891	(0.393)	120889	50.0000	44.34
9	Acrolein	56	2.259	2.259	(0.469)	7627	100.000	87.40
10	Acetone	43	2.405	2.405	(0.500)	71013	100.000	91.51
11	1,1-Dichloroethene	96	2.326	2.326	(0.484)	70107	50.0000	43.64
12	Isobutyl Alcohol	43	5.280	5.280	(1.097)	242692	1000.00	885.92
13	Acetonitrile	39	2.667	2.667	(0.554)	101283	500.000	479.44
14	Allyl Chloride	41	2.667	2.667	(0.554)	238076	50.0000	47.81
15	Iodomethane	142	2.461	2.461	(0.512)	48722	100.000	84.16
16	Acrylonitrile	53	3.061	3.061	(0.636)	68107	100.000	99.26
17	Methylene Chloride	84	2.791	2.791	(0.580)	87313	50.0000	45.80
18	Methyl tert-butyl ether	73	3.076	3.076	(0.639)	225359	50.0000	48.00
19	Carbon Disulfide	76	2.514	2.514	(0.522)	402755	100.000	82.32
20	trans-1,2-Dichloroethene	96	3.053	3.053	(0.635)	75420	50.0000	43.46

21 Vinyl Acetate	43	4.335	4.335 (0.901)	90444	100.000	89.64
22 1,1-Dichloroethane	63	3.507	3.507 (0.729)	145557	50.0000	43.89

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240610.b\C061041.D Page 2
Report Date: 21-Jun-2024 17:31

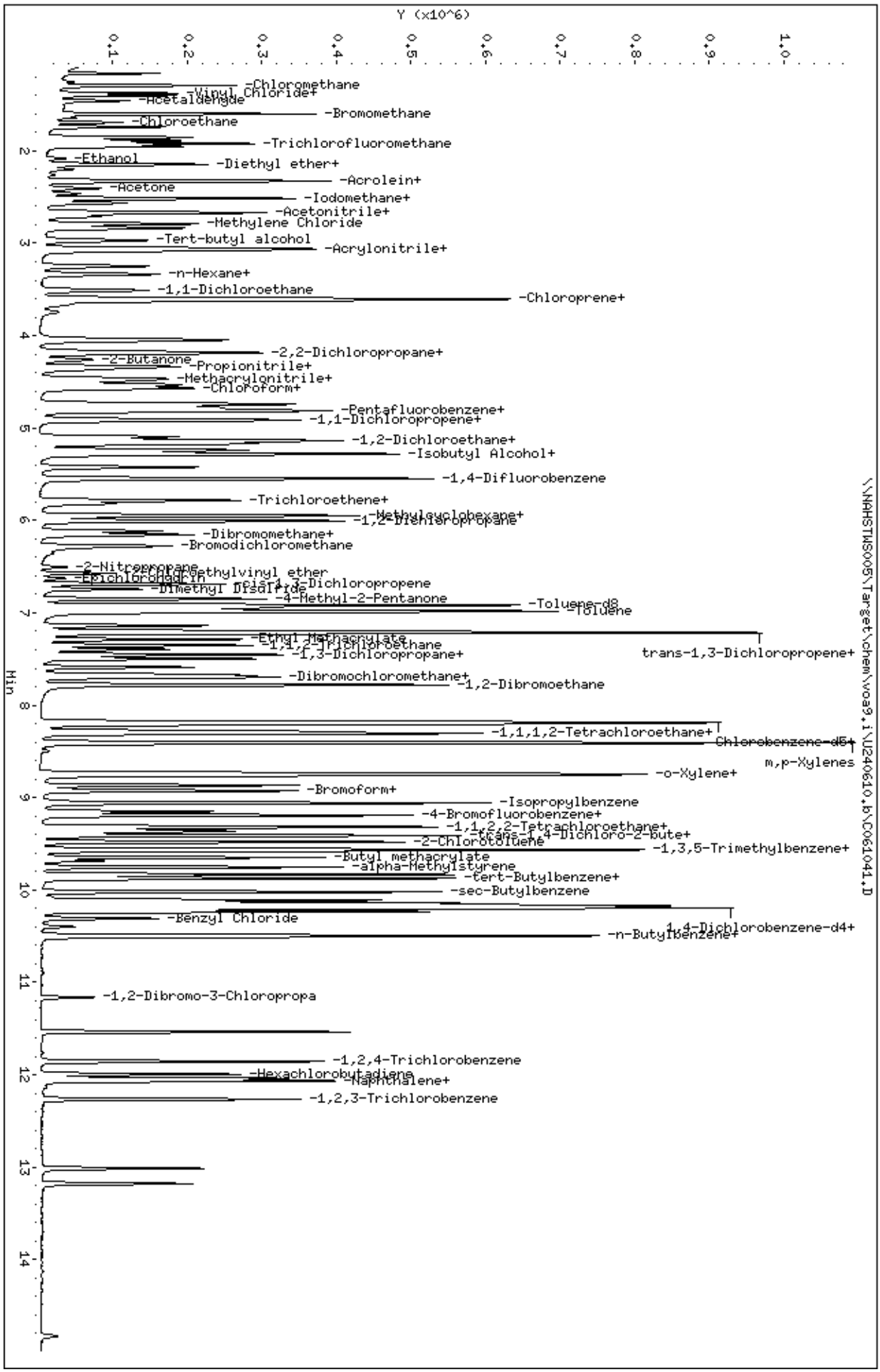
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	3.604	3.604	(0.749)	125576	50.0000	42.97
	24 2-Butanone	43	4.260	4.260	(0.885)	92510	100.000	94.20
	25 Methacrylonitrile	41	4.489	4.489	(0.933)	57086	50.0000	46.40(a)
	26 2,2-Dichloropropane	77	4.178	4.178	(0.868)	101754	50.0000	39.00
	27 cis-1,2-Dichloroethene	96	4.189	4.189	(0.871)	90827	50.0000	43.55
	28 Chloroform	83	4.568	4.568	(0.949)	147178	50.0000	43.84
	29 Bromochloromethane	128	4.467	4.467	(0.928)	44983	50.0000	44.46
$	30 Dibromofluoromethane	113	4.744	4.744	(0.986)	100906	50.0000	55.89
	31 1,1,1-Trichloroethane	97	4.737	4.737	(0.984)	116752	50.0000	42.41
	32 1,1-Dichloropropene	75	4.916	4.916	(0.886)	110911	50.0000	42.55
	33 1,2-Dichloroethane	62	5.171	5.171	(0.932)	118690	50.0000	44.38
	34 Carbon Tetrachloride	117	4.909	4.909	(0.885)	91091	50.0000	42.40
$	35 1,2-Dichloroethane-d4	65	5.093	5.093	(1.058)	119958	50.0000	55.35
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	399003	50.0000	
	37 Benzene	78	5.134	5.134	(0.925)	336079	50.0000	43.87
	38 Trichloroethene	130	5.786	5.786	(1.043)	86744	50.0000	43.65
	39 Bromodichloromethane	83	6.273	6.273	(1.130)	98660	50.0000	40.92
	40 Methyl Methacrylate	41	5.820	5.820	(1.210)	37029	50.0000	49.02
	41 2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	38741	100.000	83.46
	42 1,2-Dichloropropane	63	6.004	6.004	(1.082)	90880	50.0000	43.53
	43 2-Nitropropane	43	6.502	6.502	(1.351)	20464	50.0000	42.29
	44 Dibromomethane	93	6.116	6.116	(1.102)	53874	50.0000	44.76
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	183122	100.000	89.41
	46 cis-1,3-Dichloropropene	75	6.686	6.686	(1.205)	126098	50.0000	40.22
*	47 Chlorobenzene-d5	117	8.182	8.182	(1.000)	354334	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.846)	391896	50.0000	59.30
	49 Ethyl Methacrylate	69	7.286	7.286	(1.313)	120729	50.0000	45.43
	50 Toluene	91	6.978	6.978	(0.853)	348428	50.0000	45.07
	51 trans-1,3-Dichloropropene	75	7.192	7.192	(1.296)	101580	50.0000	39.58
	52 2-Hexanone	43	7.214	7.214	(0.882)	136008	100.000	104.60
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	67279	50.0000	45.48
	54 1,3-Dichloropropane	76	7.496	7.496	(0.916)	145046	50.0000	45.21
	55 Dibromochloromethane	129	7.687	7.687	(0.940)	77466	50.0000	41.86
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	69888	50.0000	45.32
	57 1,2-Dibromoethane	107	7.780	7.780	(0.951)	79937	50.0000	45.28
	58 1-Chlorohexane	55	8.193	8.193	(1.476)	66520	50.0000	43.13
	59 Chlorobenzene	112	8.208	8.208	(1.003)	224207	50.0000	45.06
	60 1,1,1,2-Tetrachloroethane	131	8.279	8.279	(1.012)	77064	50.0000	42.99
	61 Ethylbenzene	106	8.305	8.305	(1.015)	114902	50.0000	42.06
	62 m,p-Xylenes	106	8.406	8.406	(1.027)	292976	100.000	86.49
	63 o-Xylene	106	8.744	8.744	(1.069)	143948	50.0000	43.52
	64 Styrene	104	8.759	8.759	(1.071)	233916	50.0000	44.15
	66 Bromoform	173	8.916	8.916	(1.090)	46443	50.0000	39.62
	67 Isopropylbenzene	105	9.059	9.059	(1.107)	354760	50.0000	44.74
	68 1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	113693	50.0000	45.19
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	145006	50.0000	59.62
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	192908	50.0000	
	71 1,2,3-Trichloropropane	75	9.359	9.359	(0.920)	111785	50.0000	43.42
	72 trans-1,4-Dichloro-2-butene	53	9.374	9.374	(1.146)	22935	50.0000	41.82
	73 n-Propylbenzene	91	9.407	9.407	(0.925)	414620	50.0000	44.30
	74 Bromobenzene	156	9.314	9.314	(0.916)	98886	50.0000	44.14
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	283964	50.0000	45.90

76	2-Chlorotoluene	91	9.479	9.479 (0.932)	253203	50.0000	44.78
77	4-Chlorotoluene	91	9.572	9.572 (0.941)	290352	50.0000	43.97

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	247204	50.0000	44.63
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	274861	50.0000	41.71
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	337751	50.0000	45.20
82	p-Isopropyltoluene	119	10.142	10.142	(0.997)	289538	50.0000	44.93
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	173186	50.0000	44.31
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	180010	50.0000	44.18
86	Benzyl Chloride	91	10.307	10.307	(1.260)	99438	50.0000	41.58
87	n-Butylbenzene	91	10.491	10.491	(1.032)	250016	50.0000	43.35
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	171962	50.0000	44.78
89	1,2-Dibromo-3-Chloropropane	155	11.166	11.166	(1.098)	14204	50.0000	45.70
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	111146	50.0000	42.50
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	47841	50.0000	42.86
92	Naphthalene	128	12.065	12.065	(1.187)	272037	50.0000	45.03
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	103526	50.0000	44.11
146	Methyl acetate	43	2.708	2.708	(0.563)	75439	50.0000	49.26
138	Freon TF	101	2.330	2.330	(0.484)	70819	50.0000	44.19
141	Cyclohexane	56	4.778	4.778	(0.993)	114205	50.0000	43.70
142	Tetrahydrofuran	42	4.538	4.538	(0.943)	32599	100.000	94.50
147	Methylcyclohexane	55	5.944	5.944	(1.071)	212938	50.0000	46.08
135	1,4-Dioxane	88	6.165	6.165	(1.281)	20633	1000.00	981.43
132	n-Butanol	56	5.820	5.820	(1.210)	50585	1000.00	924.44
136	n-Hexane	57	3.335	3.335	(0.693)	78710	50.0000	43.63
139	Diethyl ether	59	2.142	2.142	(0.445)	65583	50.0000	47.84
148	Tert-butyl alcohol	59	2.967	2.967	(0.617)	163392	1000.00	1028.45
149	Isopropyl alcohol	45	2.566	2.566	(0.533)	125195	1000.00	1014.61
156	Diisopropyl ether	45	3.616	3.616	(0.751)	288877	50.0000	47.71
162	Butyl acrylate	55	8.729	8.729	(1.067)	156420	50.0000	49.51
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	413244	50.0000	47.72
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	267185	50.0000	47.01
167	Ethanol	45	2.086	2.086	(0.434)	23812	1000.00	1062.56
172	tert-Butyl formate	59	5.239	5.239	(1.089)	160244	100.000	108.87
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	528568	1000.00	939.45
140	1,3-Butadiene	54	1.400	1.400	(0.291)	44222	50.0000	43.66
182	Epichlorohydrin	57	6.626	6.626	(1.194)	21189	200.000	203.75
M 94	1,2-Dichloroethylene (total)	96				166247	100.000	(a)
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	110821	50.0000	43.06
131	Methyl Acrylate	55	4.365	4.365	(0.907)	105397	50.0000	47.95
189	n-Butyl acetate	43	7.702	7.702	(0.941)	132204	50.0000	41.87
134	Cyclohexanone	55	9.149	9.149	(0.900)	86968	1000.00	888.02
185	Isoprene	39	2.150	2.150	(0.447)	19076	50.0000	42.06
188	Isopropyl acetate	43	5.280	5.280	(0.951)	242688	50.0000	45.97
150	Allyl alcohol	57	3.335	3.335	(0.693)	78710	1000.00	860.18
194	Acetaldehyde	44	1.456	1.456	(0.303)	105694	200.000	204.38
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	51441	50.0000	41.35
133	Ethyl Acrylate	55	5.944	5.944	(1.235)	212938	50.0000	46.01
163	Butyl methacrylate	41	9.647	9.647	(0.949)	94530	50.0000	54.87
159	Propylene oxide	43	2.199	2.199	(0.457)	16344	100.000	104.05
203	2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	105574	50.0000	46.34
204	Tetrahydrothiophene	60	7.668	7.668	(0.937)	97446	50.0000	49.35(A)
205	sec-Butyl Ether	57	7.214	7.214	(0.882)	111106	50.0000	28.63(A)
187	n-Amyl acetate	43	8.928	8.928	(1.091)	140735	50.0000	44.58

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240610.b\C061041.D
Date : 10-JUN-2024 19:53
Client ID: VSTD050
Sample Info: VSTD050;VSTD050;2;;CCV
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240610.b\C061041.D
Inj Date : 10-JUN-2024 19:53
InstruID : VOA9.i
LabSampID : VSTD050

NO MANUAL INTEGRATIONS

HS24051959 - ME - ICP_W_DOD

ALS WO# HS24051959

Form 11 - INTERNAL STANDARD ASSOCIATION

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS24051959

Instrument:ICPMS06

Mass	Analyte	Assoc Int Standard 1	Assoc Int Standard 2	Mode
9	Beryllium	Lithium		Ar
11	Boron	Lithium		Ar
23	Sodium	Germanium		ArHe
24	Magnesium	Germanium		ArHe
27	Aluminum	Germanium		ArHe
39	Potassium	Germanium		ArHe
44	Calcium	Germanium		Ar
47	Titanium	Germanium		Ar
51	Vanadium	Germanium		ArHe
52	Chromium	Germanium		ArHe
55	Manganese	Germanium		ArHe
56	Iron	Germanium		ArHe
59	Cobalt	Germanium		ArHe
60	Nickel	Germanium		ArHe
63	Copper	Germanium		ArHe
66	Zinc	Germanium		ArHe
75	Arsenic	Germanium		ArHe
82	Selenium	Germanium		Ar
88	Strontium	Indium		Ar
95	Molybdenum	Indium		Ar
105	Palladium	Germanium		Ar
107	Silver	Indium		Ar
114	Cadmium	Indium		Ar
118	Tin	Indium		Ar
121	Antimony	Germanium		ArHe
137	Barium	Indium		Ar
205	Thallium	Bismuth		Ar
208	Lead	Bismuth		Ar

FORM 13 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS24051959
Start Date: 12-Jun-2024 End Date: 12-Jun-2024

Run ID:ICPMS06_469167
Instrument:ICPMS06
Method:

Sample No.	D/F	Time	FileID	Analytes
ICPMS06_469167_Tune	1	12-Jun-2024 00:00	ICPMS06_469167_Tune_1	
CAL BLK	1	12-Jun-2024 10:39	010CALB.d_8065206	AS
2/10/200	1	12-Jun-2024 10:41	011CALS.d_8065207	AS
5/25/500	1	12-Jun-2024 10:43	012CALS.d_8065208	AS
10/50/100	1	12-Jun-2024 10:45	013CALS.d_8065209	AS
100/500/10K	1	12-Jun-2024 10:47	014CALS.d_8065210	AS
200/1000/20K	1	12-Jun-2024 10:49	015CALS.d_8065211	AS
ICV	1	12-Jun-2024 10:52	016_ICV.d_8065212	AS
LLICV5	1	12-Jun-2024 10:54	017LCV5.d_8065213	AS
LLICV2	1	12-Jun-2024 10:56	018LCV2.d_8065214	AS
ICB	1	12-Jun-2024 10:58	019_ICB.d_8065215	AS
ICSA	1	12-Jun-2024 11:04	021ICSA.d_8065217	AS
ICSAB	1	12-Jun-2024 11:06	022ICSB.d_8065218	AS
CCV 1	1	12-Jun-2024 11:22	027_CCV.d_8065557	AS
CCB 1	1	12-Jun-2024 11:24	028_CCB.d_8065558	AS
MBLK-213215	1	12-Jun-2024 11:26	029SMPL.d_8065559	AS
LCS-213215	1	12-Jun-2024 11:28	030SMPL.d_8065560	AS
35AWW09_052924	1	12-Jun-2024 11:30	031SMPL.d_8065561	AS
35AWW09_052924SD	5	12-Jun-2024 11:33	032SMPL.d_8065562	AS
35AWW09_052924MS	1	12-Jun-2024 11:34	033SMPL.d_8065563	AS
35AWW09_052924MSD	1	12-Jun-2024 11:37	034SMPL.d_8065564	AS
35AWW09_052924PDS	1	12-Jun-2024 11:39	035SMPL.d_8065565	AS
35AWW09_052924A	1	12-Jun-2024 11:41	036SMPL.d_8065566	AS
03WW01_052824	1	12-Jun-2024 11:43	037SMPL.d_8065567	AS
CCV 2	1	12-Jun-2024 11:47	039_CCV.d_8065569	AS
CCB 2	1	12-Jun-2024 11:49	040_CCB.d_8065570	AS
35AWW08_052824	1	12-Jun-2024 11:51	041SMPL.d_8065571	AS
35AWW01_052824	1	12-Jun-2024 11:53	042SMPL.d_8065572	AS
LHSMW06_052824	1	12-Jun-2024 11:55	043SMPL.d_8065573	AS
LHSMW06_052824A	1	12-Jun-2024 11:57	044SMPL.d_8065574	AS
CCV 3	1	12-Jun-2024 12:02	046_CCV.d_8065576	AS
CCB 3	1	12-Jun-2024 12:04	047_CCB.d_8065577	AS

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS24051959

Run ID: ICPMS06_469167
Instrument: ICPMS06
Method: SW6020A

ICV	Date: 12-Jun-2024 10:52		Seq: 8065212	ICV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Arsenic	100	94.645	95	90-110	

CCV1	Date: 12-Jun-2024 11:22		Seq: 8065557	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Arsenic	100	96.144	96	90-110	

CCV2	Date: 12-Jun-2024 11:47		Seq: 8065569	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Arsenic	100	98.499	99	90-110	

CCV3	Date: 12-Jun-2024 12:02		Seq: 8065576	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Arsenic	100	95.205	95	90-110	

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS24051959

Run ID: ICPMS06_469167
Instrument: ICPMS06
Method: SW6020A

ICB	Date: 12-Jun-2024 10:58		Seq: 8065215	ICB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Arsenic	5	0.4	5	U	

CCB1	Date: 12-Jun-2024 11:24		Seq: 8065558	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Arsenic	2	0.4	2	U	

MBLK-213215	Date: 12-Jun-2024 11:26		Seq: 8065559	MBLK	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Arsenic	5	0.4	5	U	

CCB2	Date: 12-Jun-2024 11:49		Seq: 8065570	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Arsenic	2	0.4	2	U	

CCB3	Date: 12-Jun-2024 12:04		Seq: 8065577	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Arsenic	2	0.4	2	U	

Form 4 - ICP Interference Check Sample

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS24051959

Run ID: ICPMS06_469167
Instrument: ICPMS06
Method: SW6020A

ICSA	Date: 12-Jun-2024 11:04	Seq: 8065217	ICSA	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Arsenic		0.651	0	

ICSAB	Date: 12-Jun-2024 11:06	Seq: 8065218	ICSAB	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Arsenic	100	108.4	108	

Form 5A - Matrix Spike/Matrix Spike Duplicate Recovery

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS24051959

Date Analyzed: 12-Jun-2024 11:37
Date Extracted: 08-Jun-2024 11:00
Units: ug/L

Matrix Spike: HS24051959-05MS
Client Sample ID: 35AWW09_052924

Analysis Method: SW6020A

Analyte	Sample Result	MS Result	Spike Amount	% Rec	MSD Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Arsenic	0.5210	46.85	50.00	92.7	46.41	50.00	91.8	84-116	0.946	20

Form 5B - Post Digest Sample Recovery

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS24051959

Date Analyzed: 12-Jun-2024 11:39
Date Extracted: 08-Jun-2024 11:00
Units: ug/L

Lab Sample ID: HS24051959-05PDS
Client Sample ID: 35AWW09_052924

Analysis Method: SW6020A

Analyte	Sample Result	PDS Result	Spike Amount	% Rec	% Rec Limits
Arsenic	0.521	106.3	100	106	80-120

Form 7 - Laboratory Control Sample

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS24051959

Date Analyzed: 12-Jun-2024 11:28
Date Extracted: 08-Jun-2024 11:00
Units: ug/L

Lab Sample ID: LCS-213215 Analysis Method: SW6020A

Analyte	Spike Amount	LCS Result	% Rec	% Rec Limits
Arsenic	50	46.81	94	84-116

Form 8 - ICP Serial Dilutions

Client: Bhate Environmental Associates, Inc.
Project: LHAAP-58
WorkOrder: HS24051959

Date Analyzed: 12-Jun-2024 11:33
Date Extracted: 08-Jun-2024 11:00
Units: ug/L

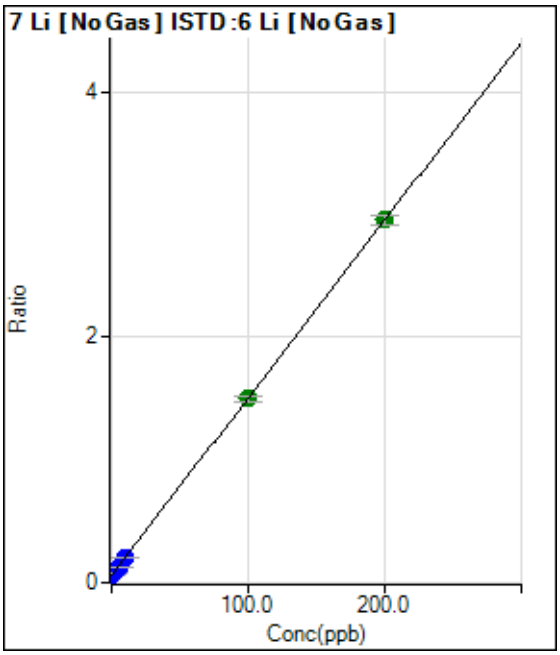
Lab Sample ID: HS24051959-05SD
Client Sample ID:35AWW09_052924

Analysis Method: SW6020A

Analyte	Sample Result	C	SD Result	C	RPD	Q
Arsenic	0.521	J	0	U	0	

Batch Folder: C:\Agilent\ICPMH\1\DATA\061224A.b\
Analysis File: 061224A.batch.bin
DA Date-Time: 6/12/2024 10:07:00 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

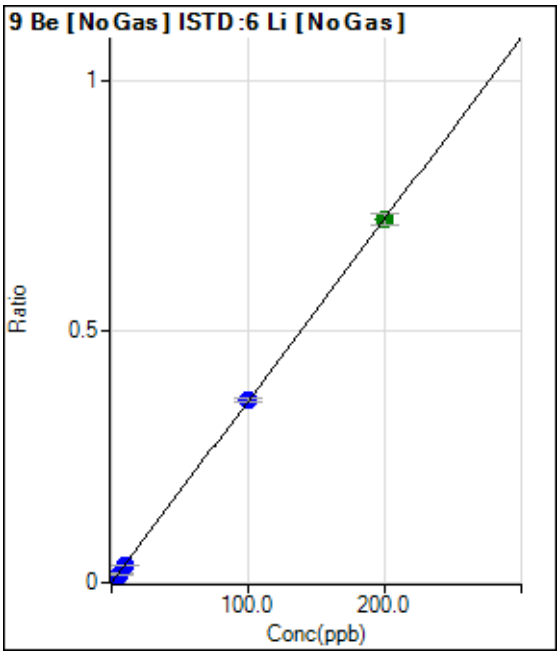
Level	Standard Data File	Sample Name	Acq. Date-Time
1	274CALB.d	CAL BLK	6/12/2024 9:53:00 PM
2	275CALS.d	2/10/200	6/12/2024 9:54:57 PM
3	276CALS.d	5/25/500	6/12/2024 9:56:53 PM
4	277CALS.d	10/50/100	6/12/2024 9:58:49 PM
5	278CALS.d	100/500/10K	6/12/2024 10:00:45 PM
6	279CALS.d	200/1000/20K	6/12/2024 10:02:31 PM



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	79241.38	0.0597	P	2.0
2	☐	2.000	1.788	112223.01	0.0856	P	0.9
3	☐	5.000	4.668	165967.59	0.1273	P	3.5
4	☐	10.000	9.596	252808.09	0.1986	P	1.2
5	☐	100.000	99.506	1820521.54	1.4993	A	2.6
6	☐	200.000	200.277	3432100.37	2.9572	A	2.7

y = 0.0145 * x + 0.0597
R = 1.0000
DL = 0.2518
BEC = 4.128

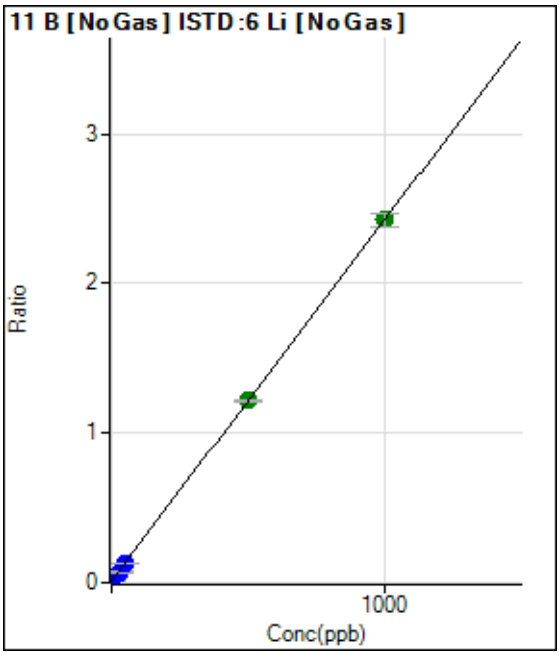
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	41.67	0.0000	P	16.7
2	☐	2.000	1.954	9303.13	0.0071	P	0.8
3	☐	5.000	4.742	22394.56	0.0172	P	4.2
4	☐	10.000	9.619	44311.44	0.0348	P	1.9
5	☐	100.000	100.804	442471.63	0.3644	P	2.6
6	☐	200.000	199.624	837098.77	0.7216	A	3.4

y = 0.0036 * x + 3.1349E-005
R = 1.0000
DL = 0.004356
BEC = 0.008673

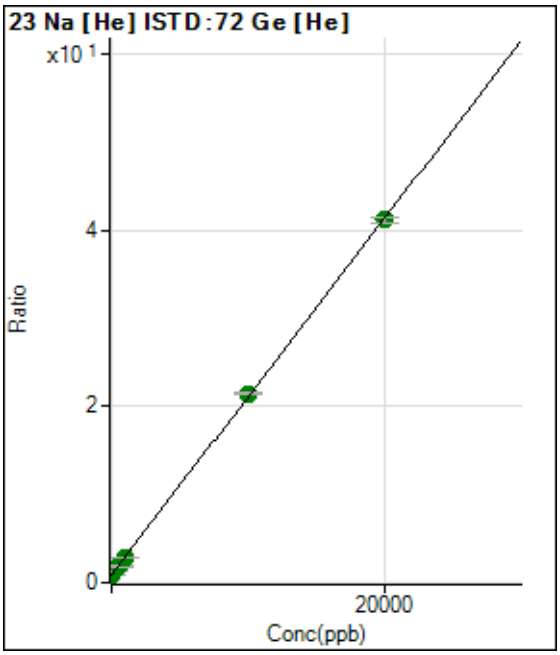
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	17727.98	0.0134	P	2.9
2	☐	10.000	9.716	48205.78	0.0368	P	3.2
3	☐	25.000	23.576	91521.28	0.0702	P	2.9
4	☐	50.000	48.575	166014.44	0.1304	P	1.6
5	☐	500.000	498.626	1475560.19	1.2147	A	0.2
6	☐	1000.000	1000.797	2812341.94	2.4245	A	3.9

y = 0.0024 * x + 0.0134
R = 1.0000
DL = 0.4825
BEC = 5.546

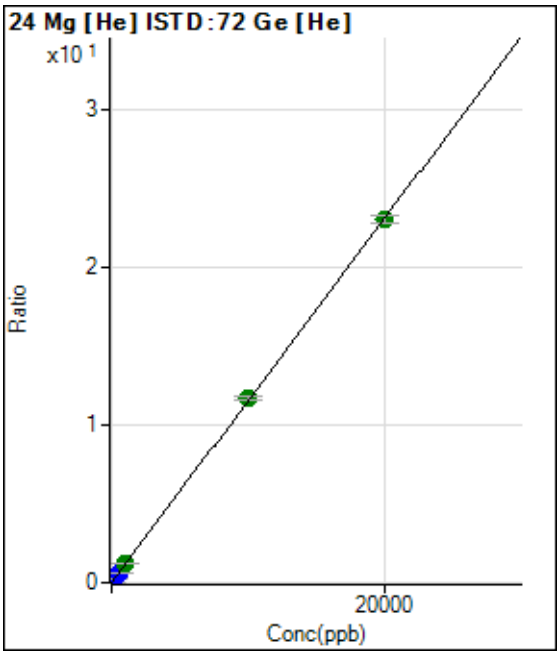
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	844922.12	0.9086	A	1.2
2	☐	200.000	195.612	1211918.08	1.3040	A	0.5
3	☐	500.000	470.687	1711375.81	1.8600	A	1.4
4	☐	1000.000	972.197	2620145.02	2.8737	A	1.0
5	☐	10000.00	10167.34	19244287.63	21.4603	A	0.4
6	☐	20000.00	19918.49	36309176.96	41.1707	A	1.9

y = 0.0020 * x + 0.9086
R = 0.9999
DL = 16.67
BEC = 449.5

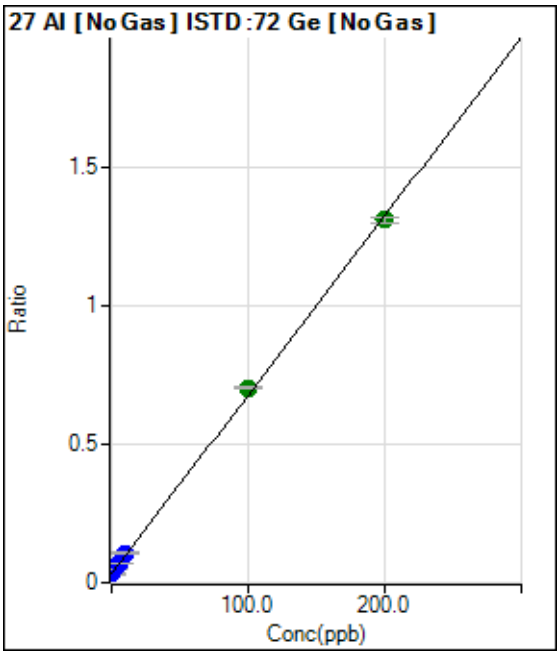
Weight: <None>
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3497.17	0.0038	P	5.3
2	☐	200.000	215.189	234053.09	0.2518	P	0.3
3	☐	500.000	533.594	569545.67	0.6189	P	1.2
4	☐	1000.000	1046.542	1103466.18	1.2102	A	1.4
5	☐	10000.00	10137.71	10482771.93	11.6906	A	2.2
6	☐	20000.00	19927.82	20263147.62	22.9767	A	2.1

y = 0.0012 * x + 0.0038
R = 1.0000
DL = 0.5149
BEC = 3.262

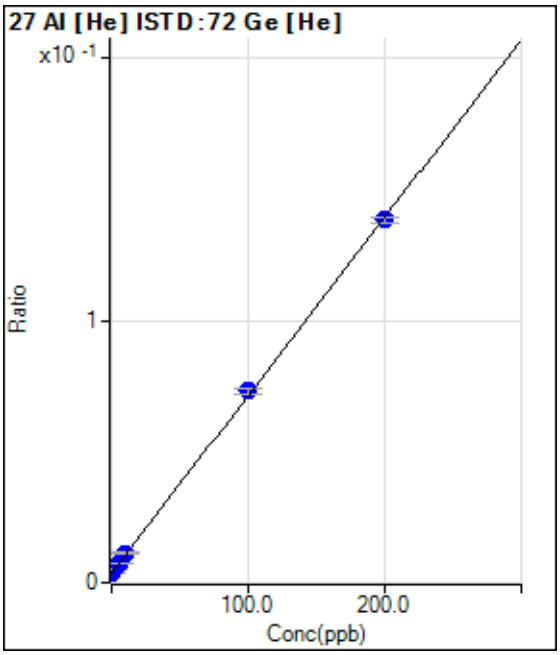
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	105380.74	0.0316	P	2.9
2	☐	2.000	2.483	156733.28	0.0476	P	0.5
3	☐	5.000	5.650	226825.43	0.0680	P	1.1
4	☐	10.000	11.747	351579.77	0.1073	P	0.5
5	☐	100.000	103.885	2257180.80	0.7014	A	1.0
6	☐	200.000	197.949	4088765.56	1.3078	A	1.4

y = 0.0064 * x + 0.0316
R = 0.9997
DL = 0.429
BEC = 4.896

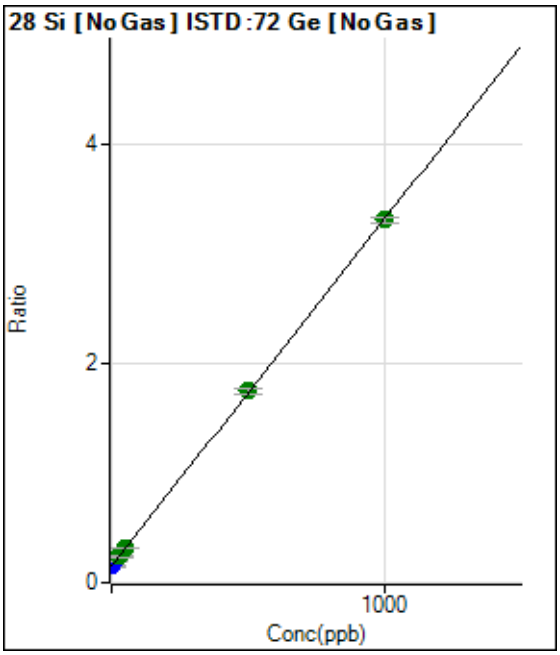
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3337.42	0.0036	P	12.7
2	☐	2.000	2.003	4597.50	0.0049	P	1.0
3	☐	5.000	5.296	6605.06	0.0072	P	5.6
4	☐	10.000	11.214	10210.58	0.0112	P	4.9
5	☐	100.000	102.373	65497.56	0.0731	P	2.2
6	☐	200.000	198.745	122102.88	0.1384	P	1.9

y = 6.7855E-004 * x + 0.0036
R = 0.9999
DL = 2.012
BEC = 5.287

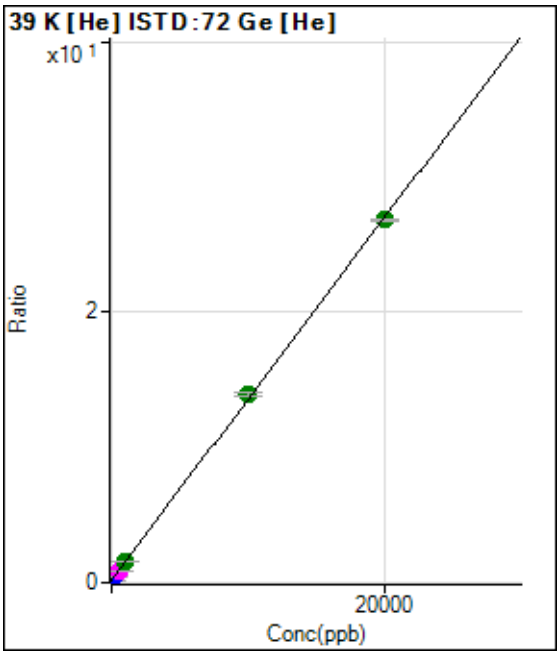
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	503547.82	0.1509	P	4.4
2	☐	10.000	14.597	649289.22	0.1971	P	10.4
3	☐	25.000	27.281	791379.65	0.2372	A	2.2
4	☐	50.000	53.095	1044923.76	0.3189	A	0.0
5	☐	500.000	504.102	5619269.92	1.7463	A	2.5
6	☐	1000.000	997.691	10343545.47	3.3085	A	1.4

y = 0.0032 * x + 0.1509
R = 1.0000
DL = 6.267
BEC = 47.67

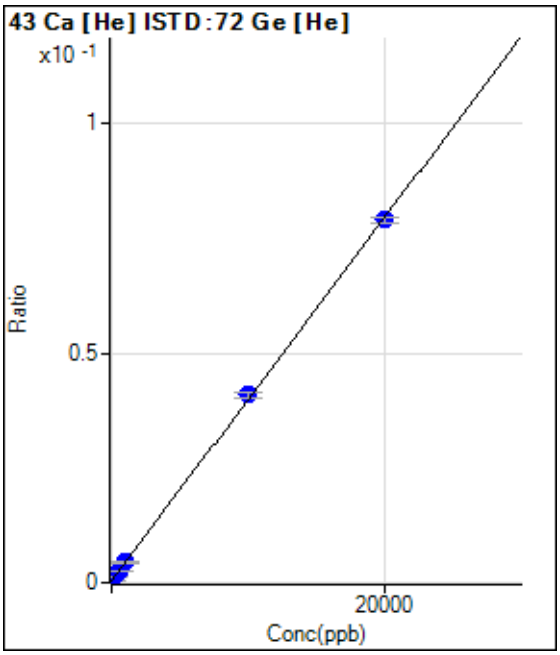
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	173464.63	0.1865	P	1.8
2	☐	200.000	211.472	437060.69	0.4703	P	0.2
3	☐	500.000	520.097	813731.21	0.8843	M	2.3
4	☐	1000.000	1053.997	1459317.85	1.6006	A	1.2
5	☐	10000.00	10244.82	12490475.65	13.9313	A	2.7
6	☐	20000.00	19874.27	23683897.15	26.8505	A	0.7

y = 0.0013 * x + 0.1865
R = 0.9999
DL = 7.344
BEC = 139

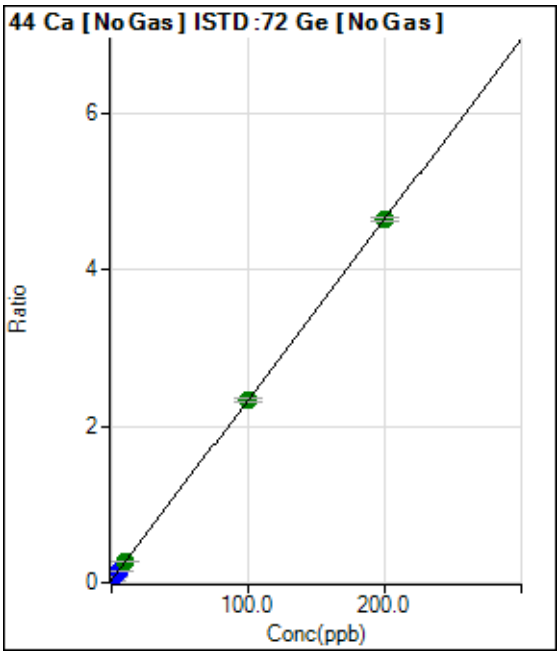
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	363.34	0.0004	P	8.3
2	☐	200.000	189.502	1060.06	0.0011	P	3.1
3	☐	500.000	535.346	2306.91	0.0025	P	12.0
4	☐	1000.000	1014.744	4017.33	0.0044	P	6.9
5	☐	10000.00	10232.51	36669.06	0.0409	P	2.3
6	☐	20000.00	19882.22	69767.11	0.0791	P	1.5

y = 3.9587E-006 * x + 3.9077E-004
R = 0.9999
DL = 24.45
BEC = 98.71

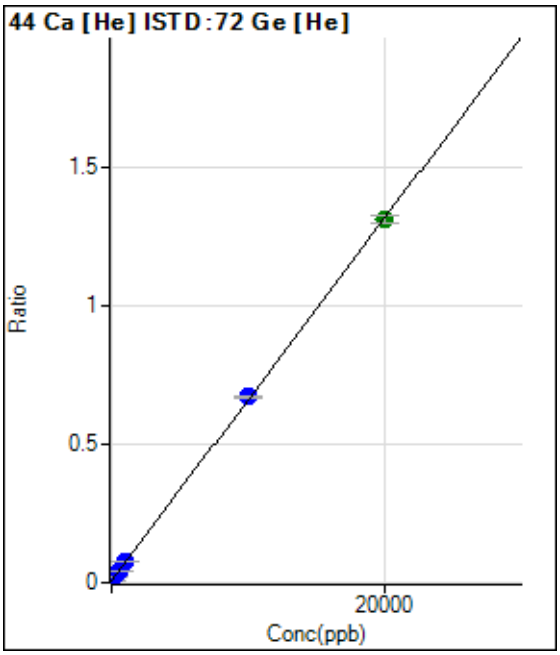
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	103067.49	0.0309	P	1.2
2	☐	2.000	2.139	264318.12	0.0802	P	1.4
3	☐	5.000	5.066	492980.13	0.1478	P	0.5
4	☐	10.000	10.379	885923.50	0.2704	A	2.1
5	☐	100.000	100.316	7549417.80	2.3460	A	2.4
6	☐	200.000	199.820	14514161.03	4.6424	A	0.9

y = 0.0231 * x + 0.0309
R = 1.0000
DL = 0.04983
BEC = 1.338

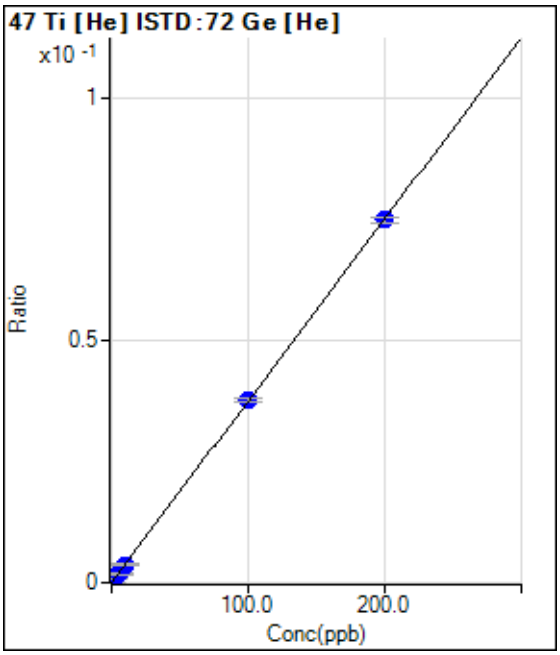
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6051.45	0.0065	P	1.6
2	☐	200.000	212.112	18919.92	0.0204	P	2.1
3	☐	500.000	497.786	35903.97	0.0390	P	2.4
4	☐	1000.000	1037.774	67723.76	0.0743	P	1.7
5	☐	10000.00	10161.76	601005.63	0.6702	P	1.5
6	☐	20000.00	19917.16	1153122.48	1.3074	A	2.0

y = 6.5313E-005 * x + 0.0065
R = 1.0000
DL = 4.739
BEC = 99.63

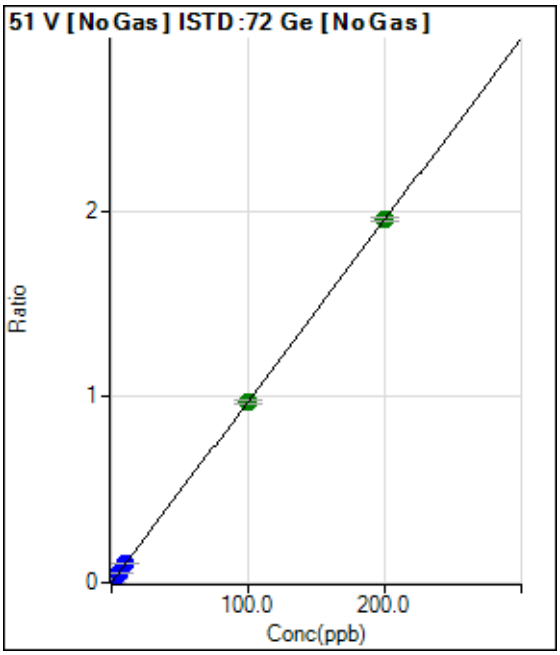
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	16.67	0.0000	P	34.9
2	☐	2.000	2.278	810.04	0.0009	P	8.8
3	☐	5.000	4.732	1650.13	0.0018	P	3.2
4	☐	10.000	9.898	3400.48	0.0037	P	2.4
5	☐	100.000	100.626	33855.46	0.0378	P	1.5
6	☐	200.000	199.696	66068.67	0.0749	P	1.7

y = 3.7506E-004 * x + 1.7934E-005
R = 1.0000
DL = 0.05001
BEC = 0.04782

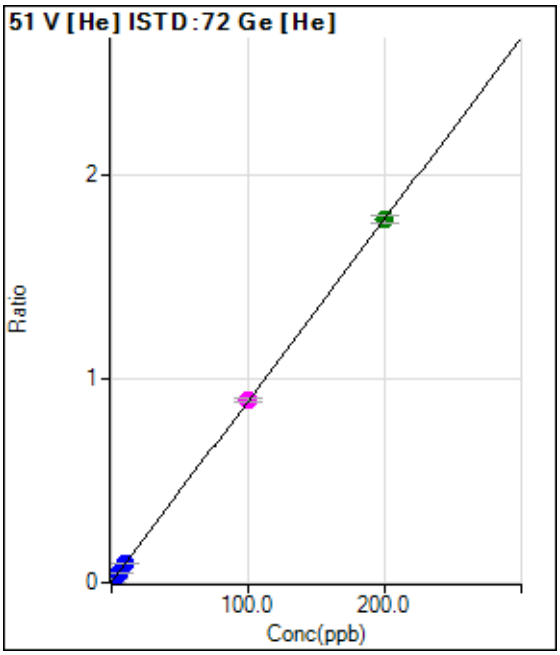
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	-11150.60	-0.0034	P	-46.6
2	☐	2.000	2.265	62050.71	0.0188	P	3.4
3	☐	5.000	5.052	153929.53	0.0461	P	4.8
4	☐	10.000	10.386	322388.15	0.0984	P	0.6
5	☐	100.000	99.634	3130380.78	0.9728	A	2.2
6	☐	200.000	200.160	6120706.70	1.9576	A	1.3

y = 0.0098 * x - 0.0034
R = 1.0000
DL = 0.4783
BEC = -0.3425

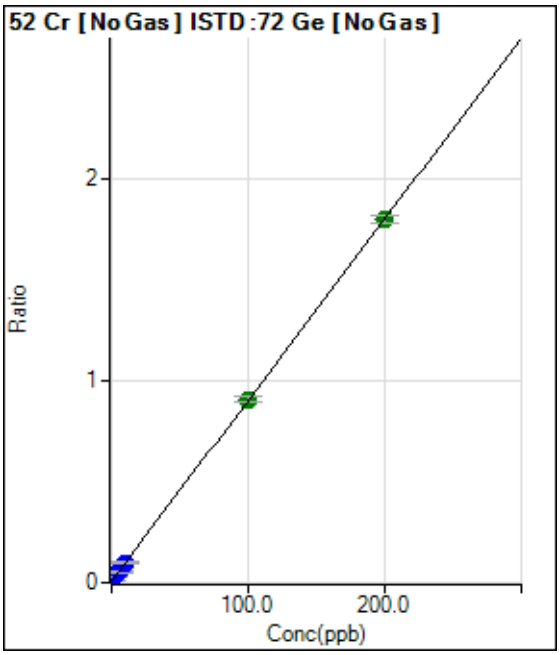
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1783.59	0.0019	P	9.7
2	☐	2.000	2.013	18415.89	0.0198	P	7.3
3	☐	5.000	5.003	42720.11	0.0464	P	1.4
4	☐	10.000	10.168	84218.83	0.0924	P	0.5
5	☐	100.000	100.580	803908.25	0.8966	M	2.2
6	☐	200.000	199.701	1568268.42	1.7783	A	2.2

y = 0.0089 * x + 0.0019
R = 1.0000
DL = 0.06256
BEC = 0.2157

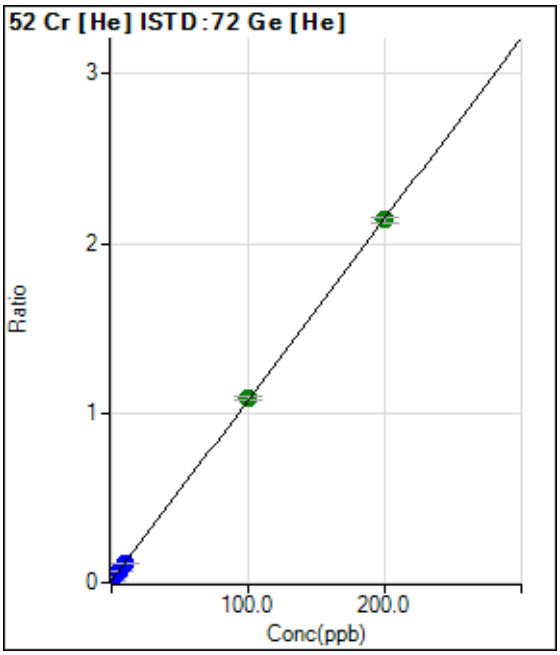
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	24088.22	0.0072	P	5.0
2	☐	2.000	2.063	84755.23	0.0257	P	0.7
3	☐	5.000	5.044	175038.28	0.0525	P	0.2
4	☐	10.000	10.345	327779.68	0.1000	P	0.4
5	☐	100.000	100.616	2928112.98	0.9100	A	2.9
6	☐	200.000	199.673	5623596.17	1.7988	A	1.9

y = 0.0090 * x + 0.0072
R = 1.0000
DL = 0.1218
BEC = 0.8045

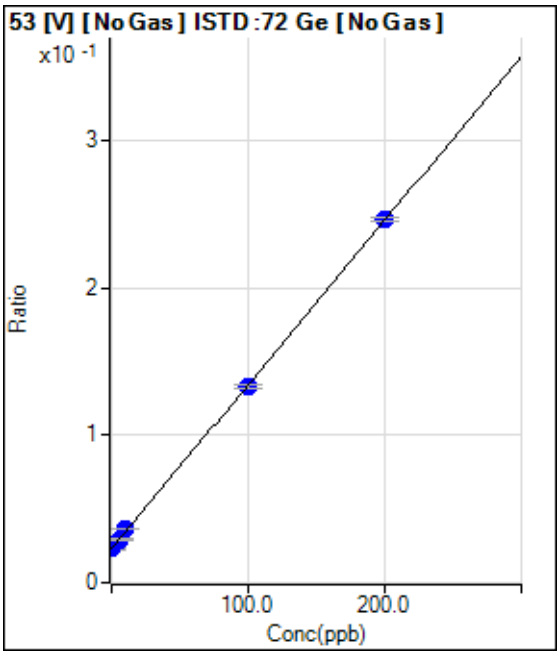
Weight: <None>
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	8949.75	0.0096	P	0.4
2	☐	2.000	1.990	28673.80	0.0309	P	4.2
3	☐	5.000	4.967	57611.33	0.0626	P	0.5
4	☐	10.000	10.167	107647.77	0.1181	P	0.5
5	☐	100.000	100.858	973194.52	1.0854	A	2.2
6	☐	200.000	199.564	1886590.28	2.1383	A	1.6

y = 0.0107 * x + 0.0096
R = 1.0000
DL = 0.01207
BEC = 0.9022

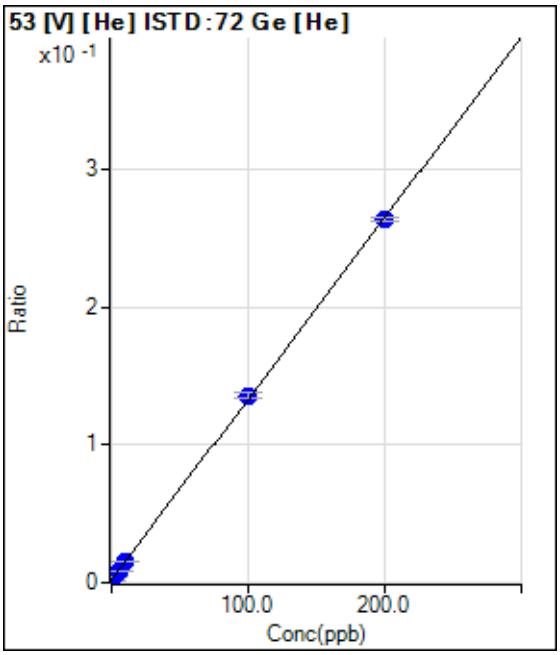
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	77013.35	0.0231	P	3.4
2	☐	2.000	2.342	84593.99	0.0257	P	1.1
3	☐	5.000	5.330	96754.12	0.0290	P	2.5
4	☐	10.000	12.071	119631.06	0.0365	P	0.4
5	☐	100.000	99.058	429129.55	0.1334	P	2.5
6	☐	200.000	200.356	769546.45	0.2461	P	1.0

y = 0.0011 * x + 0.0231
R = 0.9999
DL = 2.138
BEC = 20.72

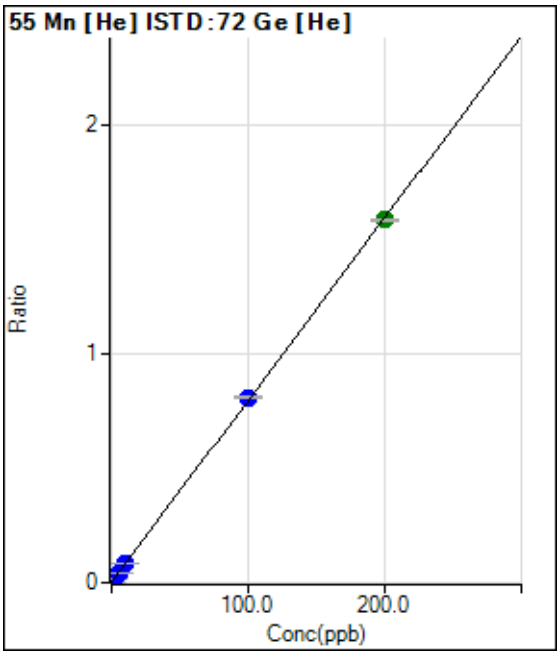
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1803.48	0.0019	P	0.1
2	☐	2.000	2.067	4330.77	0.0047	P	5.3
3	☐	5.000	5.010	7845.71	0.0085	P	5.1
4	☐	10.000	10.111	13893.92	0.0152	P	2.7
5	☐	100.000	102.048	122104.95	0.1362	P	2.4
6	☐	200.000	198.970	232575.04	0.2637	P	1.1

y = 0.0013 * x + 0.0019
R = 0.9999
DL = 0.003673
BEC = 1.474

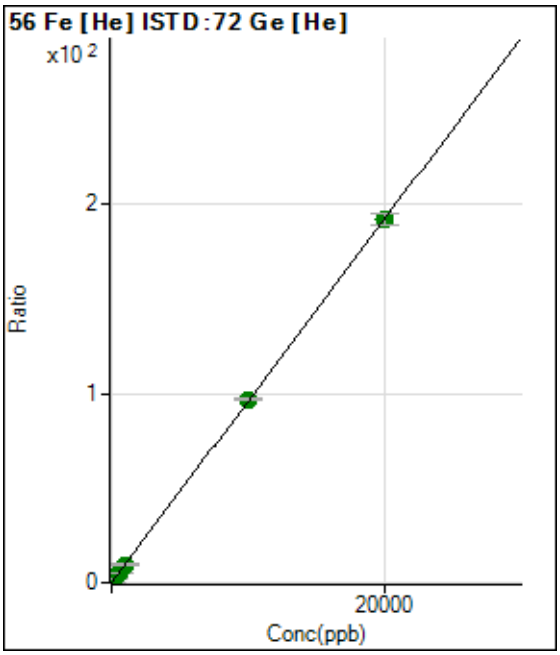
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1216.75	0.0013	P	14.9
2	☐	2.000	1.987	15939.58	0.0171	P	3.0
3	☐	5.000	5.017	37993.41	0.0413	P	2.5
4	☐	10.000	10.293	75981.04	0.0833	P	1.9
5	☐	100.000	101.756	728385.51	0.8123	P	1.6
6	☐	200.000	199.107	1400825.86	1.5881	A	0.5

y = 0.0080 * x + 0.0013
R = 0.9999
DL = 0.0735
BEC = 0.1641

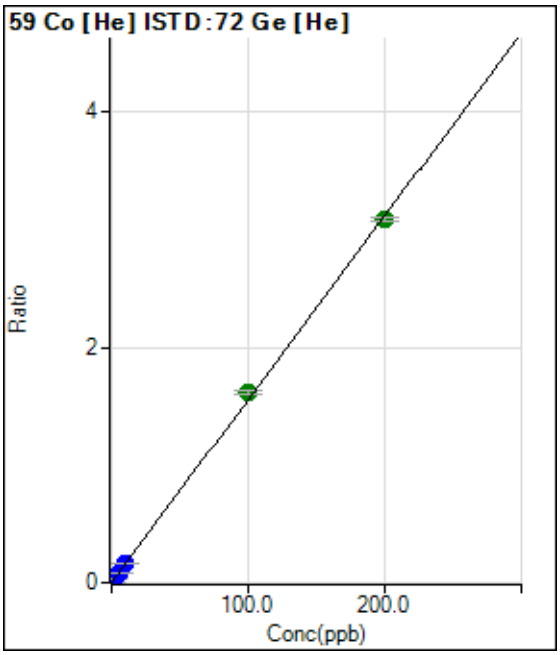
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	31563.49	0.0339	P	2.8
2	☐	200.000	204.074	1854715.39	1.9956	A	0.3
3	☐	500.000	491.315	4376895.87	4.7567	A	2.1
4	☐	1000.000	1001.835	8810459.87	9.6641	A	2.3
5	☐	10000.00	10070.88	86833228.70	96.8401	A	1.2
6	☐	20000.00	19964.64	169259237.4	191.943	A	3.0

y = 0.0096 * x + 0.0339
R = 1.0000
DL = 0.2931
BEC = 3.531

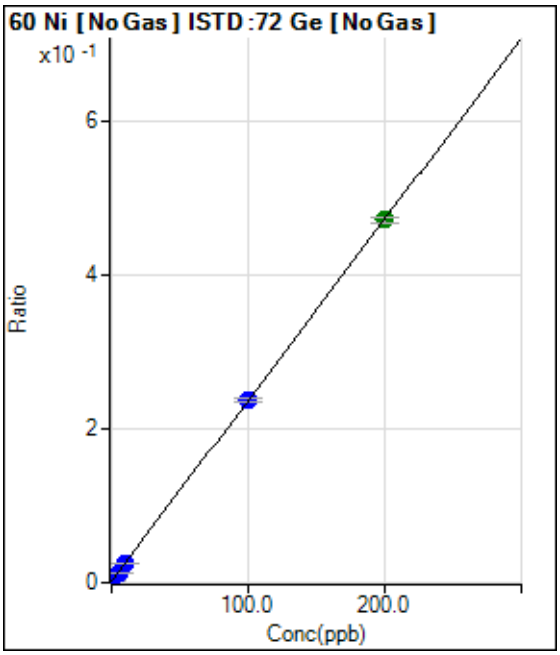
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	93.33	0.0001	P	33.2
2	☐	2.000	2.018	29285.24	0.0315	P	3.9
3	☐	5.000	4.951	71038.33	0.0772	P	0.9
4	☐	10.000	10.222	145234.33	0.1593	P	1.1
5	☐	100.000	103.915	1451166.44	1.6183	A	1.2
6	☐	200.000	198.033	2720079.75	3.0840	A	1.0

y = 0.0156 * x + 1.0047E-004
R = 0.9997
DL = 0.006431
BEC = 0.006452

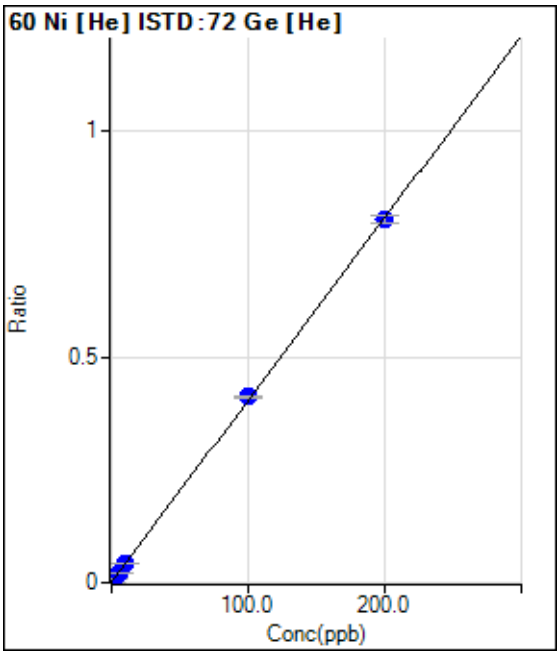
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6438.31	0.0019	P	4.7
2	☐	2.000	2.073	22428.80	0.0068	P	2.5
3	☐	5.000	4.900	44931.19	0.0135	P	1.7
4	☐	10.000	10.027	83686.62	0.0255	P	1.0
5	☐	100.000	100.402	767106.34	0.2384	P	2.1
6	☐	200.000	199.800	1477238.94	0.4725	A	1.6

y = 0.0024 * x + 0.0019
R = 1.0000
DL = 0.1164
BEC = 0.8182

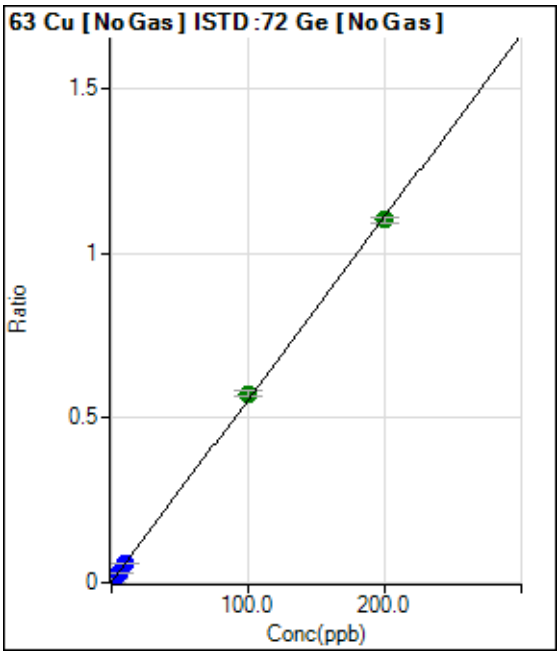
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	820.04	0.0009	P	7.8
2	☐	2.000	2.161	8916.41	0.0096	P	4.4
3	☐	5.000	5.017	19434.13	0.0211	P	5.1
4	☐	10.000	10.191	38277.34	0.0420	P	1.3
5	☐	100.000	101.975	369574.07	0.4121	P	1.4
6	☐	200.000	199.001	708555.28	0.8034	P	2.0

y = 0.0040 * x + 8.8173E-004
R = 0.9999
DL = 0.05145
BEC = 0.2186

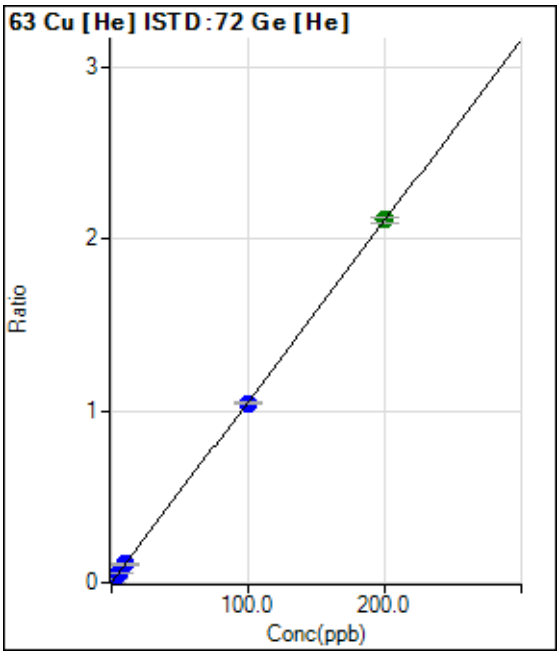
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6505.01	0.0019	P	6.3
2	☐	2.000	2.122	45162.03	0.0137	P	2.4
3	☐	5.000	4.983	98636.45	0.0296	P	0.9
4	☐	10.000	10.301	193463.15	0.0590	P	0.4
5	☐	100.000	103.249	1847915.96	0.5742	A	2.7
6	☐	200.000	198.360	3443610.16	1.1014	A	1.8

y = 0.0055 * x + 0.0019
R = 0.9998
DL = 0.06632
BEC = 0.3517

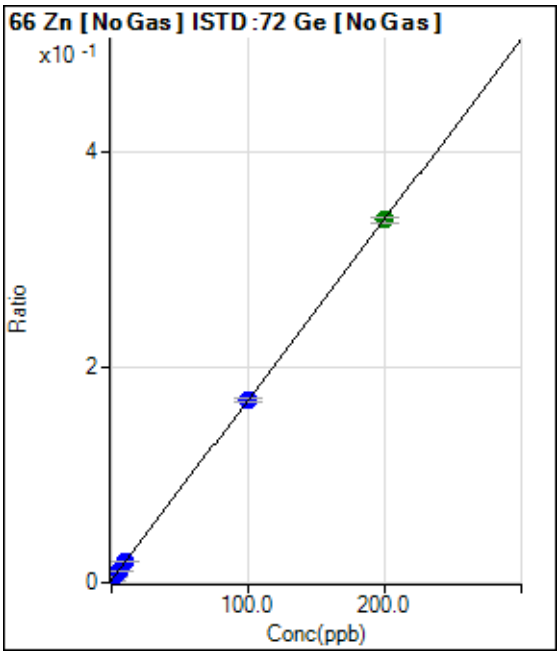
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1146.74	0.0012	P	5.5
2	☐	2.000	2.026	20939.76	0.0225	P	3.3
3	☐	5.000	4.909	48627.45	0.0528	P	0.9
4	☐	10.000	10.031	97276.97	0.1067	P	1.5
5	☐	100.000	99.121	935569.02	1.0433	P	1.4
6	☐	200.000	200.440	1859861.12	2.1085	A	1.4

y = 0.0105 * x + 0.0012
R = 1.0000
DL = 0.01946
BEC = 0.1173

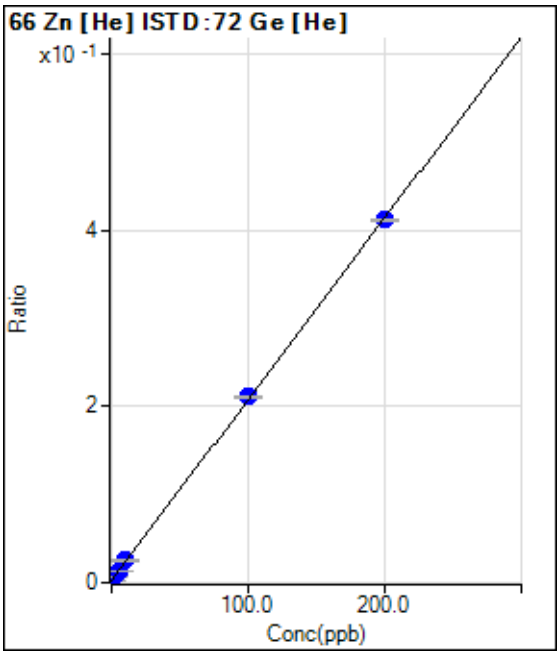
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	7432.21	0.0022	P	4.7
2	☐	2.000	2.239	19684.57	0.0060	P	2.3
3	☐	5.000	4.865	34604.57	0.0104	P	1.2
4	☐	10.000	10.848	66811.49	0.0204	P	0.4
5	☐	100.000	100.120	546717.35	0.1699	P	1.3
6	☐	200.000	199.899	1053580.82	0.3370	A	1.3

y = 0.0017 * x + 0.0022
R = 1.0000
DL = 0.1857
BEC = 1.329

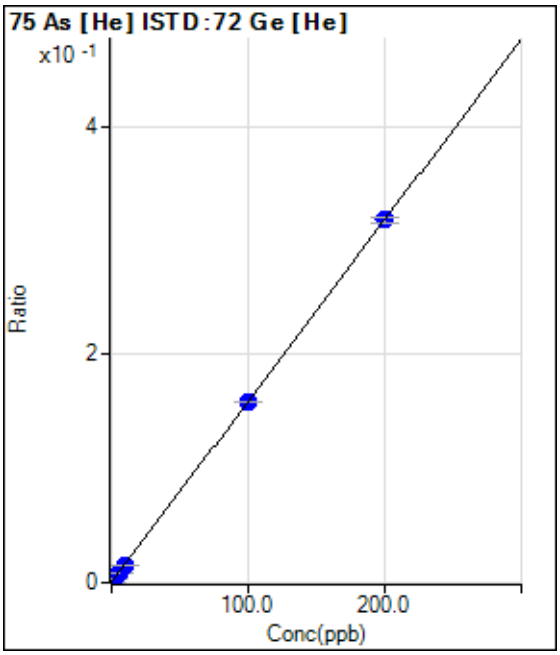
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2330.25	0.0025	P	16.0
2	☐	2.000	2.423	6955.23	0.0075	P	3.8
3	☐	5.000	5.154	12042.25	0.0131	P	2.8
4	☐	10.000	11.025	22926.30	0.0251	P	0.9
5	☐	100.000	101.548	189229.33	0.2110	P	0.6
6	☐	200.000	199.167	362937.64	0.4115	P	0.7

y = 0.0021 * x + 0.0025
R = 1.0000
DL = 0.5861
BEC = 1.221

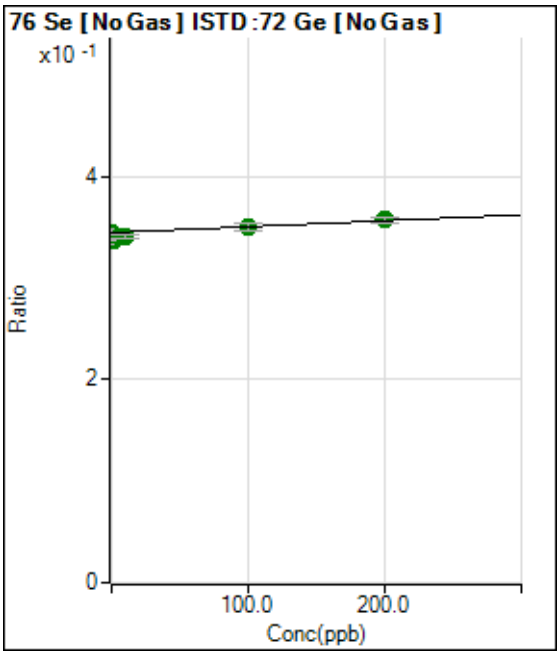
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	295.56	0.0003	P	16.6
2	☐	2.000	1.923	3131.50	0.0034	P	2.0
3	☐	5.000	4.740	7214.18	0.0078	P	0.8
4	☐	10.000	9.779	14439.98	0.0158	P	0.3
5	☐	100.000	99.618	142054.28	0.1584	P	0.9
6	☐	200.000	200.209	280511.47	0.3180	P	1.3

y = 0.0016 * x + 3.1794E-004
R = 1.0000
DL = 0.1001
BEC = 0.2003

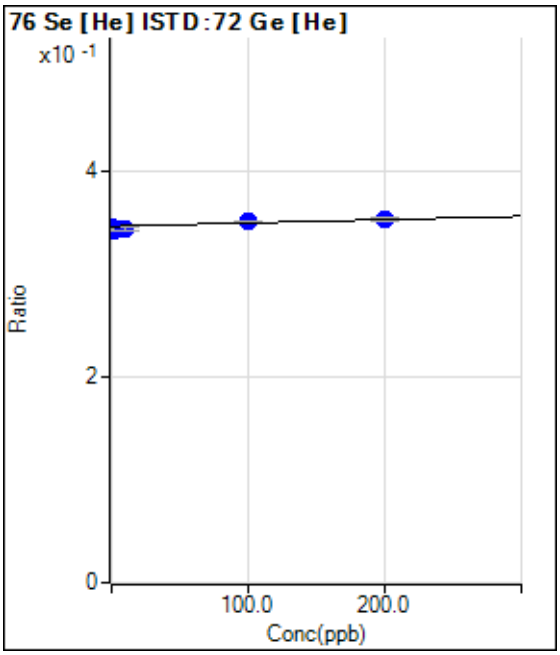
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1151746.54	0.3449	A	1.6
2	☐	2.000	-129.726	1111261.26	0.3373	A	2.2
3	☐	5.000	-69.810	1136904.02	0.3408	A	1.8
4	☐	10.000	-62.379	1118155.95	0.3413	A	1.1
5	☐	100.000	87.756	1126524.09	0.3501	A	2.1
6	☐	200.000	212.928	1117383.34	0.3574	A	1.5

y = 5.8605E-005 * x + 0.3449
R = 0.9400
DL = 283.2
BEC = 5886

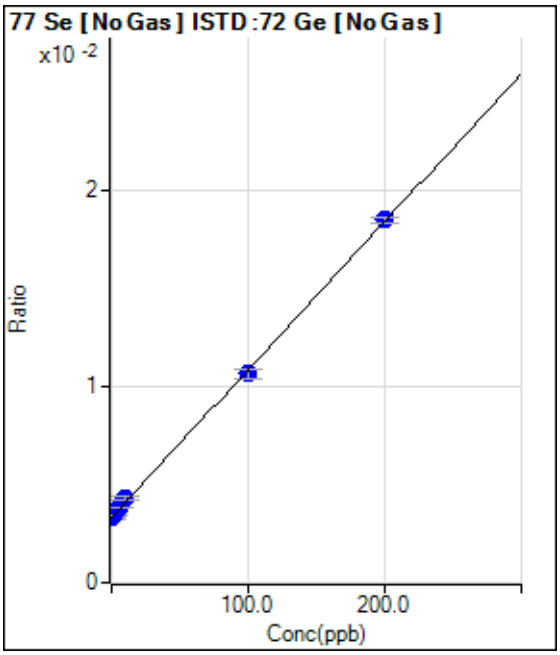
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	322646.60	0.3469	P	0.5
2	☐	2.000	-146.617	318007.91	0.3422	P	0.6
3	☐	5.000	-71.041	317126.63	0.3446	P	0.3
4	☐	10.000	-56.680	314615.41	0.3451	P	1.1
5	☐	100.000	136.974	315113.51	0.3514	P	0.4
6	☐	200.000	188.234	311398.91	0.3531	P	1.2

y = 3.2568E-005 * x + 0.3469
R = 0.8985
DL = 164.6
BEC = 1.065E+04

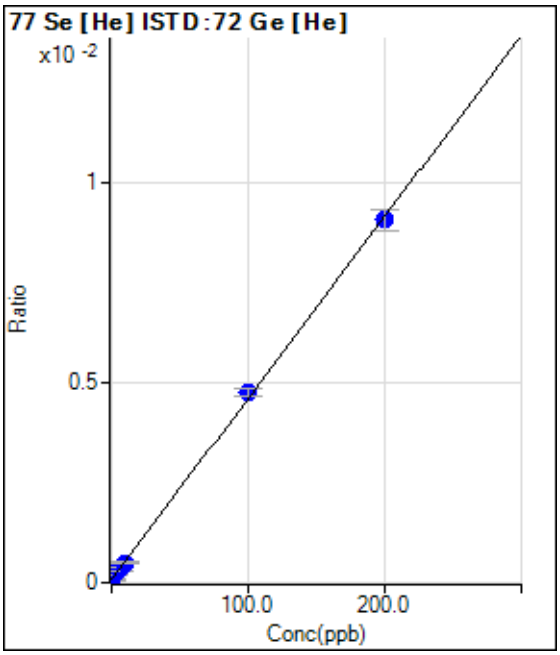
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	11121.45	0.0033	P	2.7
2	☐	2.000	1.627	11374.94	0.0035	P	1.2
3	☐	5.000	6.393	12719.56	0.0038	P	0.9
4	☐	10.000	13.160	14167.70	0.0043	P	3.5
5	☐	100.000	97.223	34337.31	0.0107	P	5.0
6	☐	200.000	201.199	57917.92	0.0185	P	1.7

y = 7.5525E-005 * x + 0.0033
R = 0.9997
DL = 3.551
BEC = 44.09

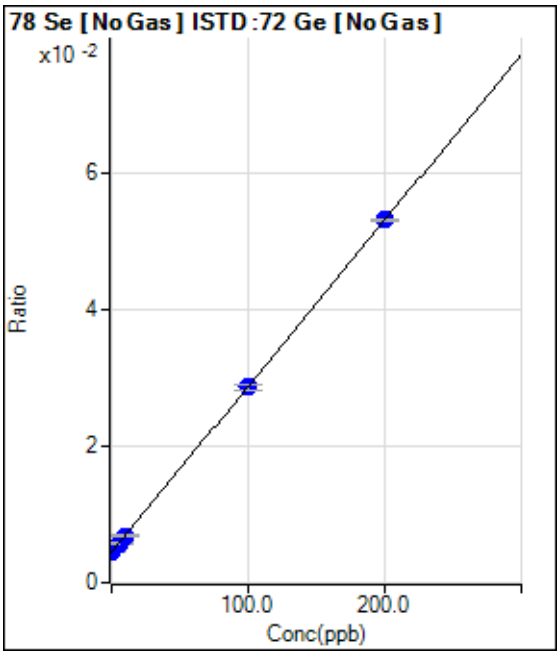
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	70.00	0.0001	P	13.8
2	☐	2.000	3.090	200.00	0.0002	P	19.3
3	☐	5.000	6.148	326.68	0.0004	P	25.1
4	☐	10.000	9.209	450.02	0.0005	P	11.8
5	☐	100.000	103.374	4277.43	0.0048	P	3.5
6	☐	200.000	198.313	8009.21	0.0091	P	5.9

y = 4.5404E-005 * x + 7.5231E-005
R = 0.9998
DL = 0.6836
BEC = 1.657

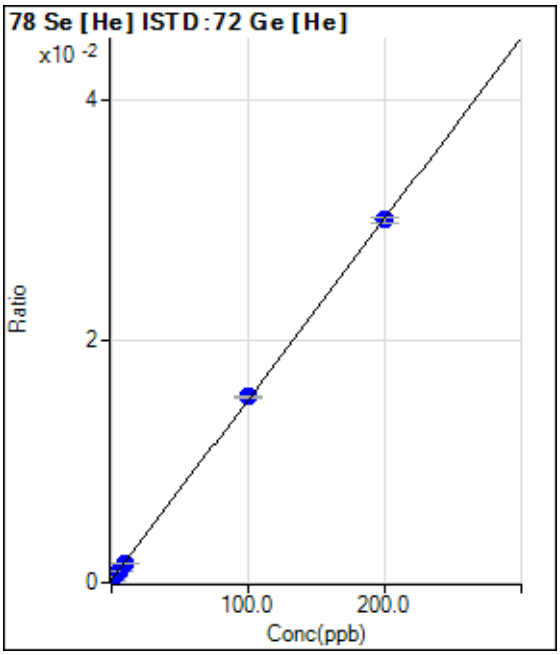
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	14901.77	0.0045	P	4.1
2	☐	2.000	2.376	16603.77	0.0050	P	2.2
3	☐	5.000	4.837	18800.12	0.0056	P	5.1
4	☐	10.000	9.974	22549.22	0.0069	P	1.9
5	☐	100.000	99.387	91896.03	0.0286	P	2.3
6	☐	200.000	200.308	165772.83	0.0530	P	0.8

y = 2.4242E-004 * x + 0.0045
R = 1.0000
DL = 2.283
BEC = 18.42

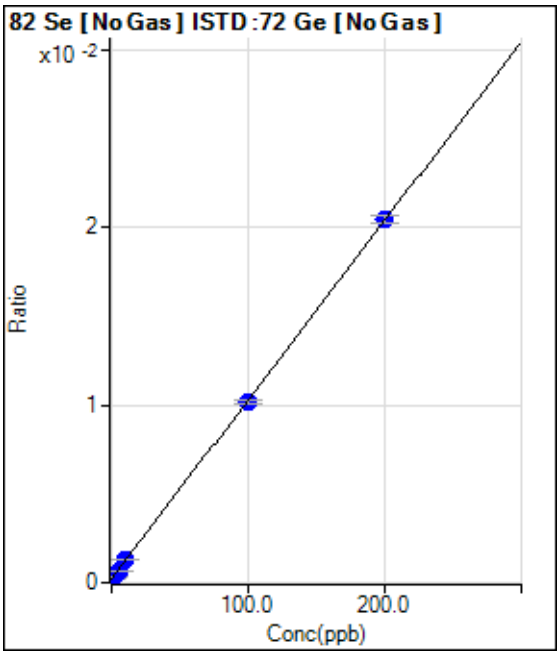
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	184.67	0.0002	P	21.3
2	☐	2.000	1.734	426.01	0.0005	P	3.4
3	☐	5.000	4.846	850.70	0.0009	P	5.0
4	☐	10.000	9.554	1485.42	0.0016	P	3.4
5	☐	100.000	101.332	13782.39	0.0154	P	0.7
6	☐	200.000	199.363	26499.36	0.0300	P	1.8

y = 1.4972E-004 * x + 1.9877E-004
R = 1.0000
DL = 0.8468
BEC = 1.328

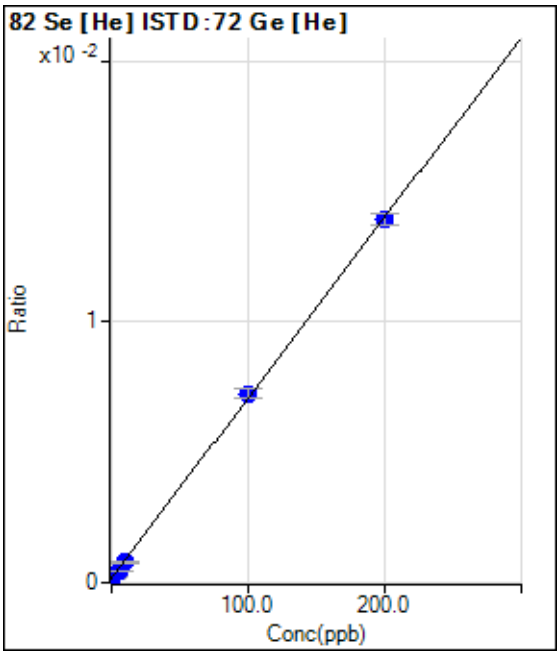
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	716.70	0.0002	P	13.6
2	☐	2.000	1.237	1116.73	0.0003	P	5.5
3	☐	5.000	4.371	2183.55	0.0007	P	8.1
4	☐	10.000	10.717	4240.75	0.0013	P	3.7
5	☐	100.000	98.924	32770.44	0.0102	P	2.2
6	☐	200.000	200.525	63848.66	0.0204	P	2.0

y = 1.0078E-004 * x + 2.1431E-004
R = 1.0000
DL = 0.8665
BEC = 2.127

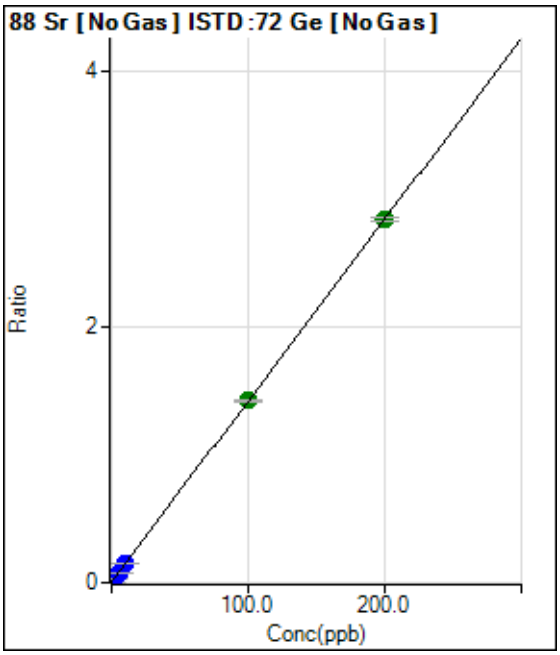
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	163.34	0.0002	P	22.6
2	☐	2.000	1.203	240.01	0.0003	P	27.8
3	☐	5.000	3.855	406.68	0.0004	P	12.1
4	☐	10.000	8.777	713.36	0.0008	P	10.6
5	☐	100.000	102.546	6511.69	0.0073	P	5.9
6	☐	200.000	198.825	12269.14	0.0139	P	3.2

y = 6.9102E-005 * x + 1.7545E-004
R = 0.9998
DL = 1.721
BEC = 2.539

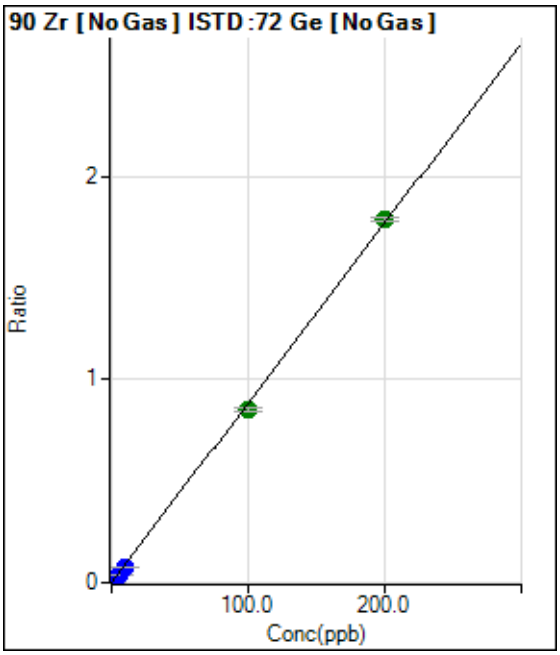
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	15068.78	0.0045	P	4.7
2	☐	2.000	1.984	107323.36	0.0326	P	1.0
3	☐	5.000	4.840	243456.59	0.0730	P	0.5
4	☐	10.000	10.114	483541.57	0.1476	P	0.3
5	☐	100.000	100.200	4575952.54	1.4219	A	1.0
6	☐	200.000	199.899	8854626.74	2.8322	A	1.0

y = 0.0141 * x + 0.0045
R = 1.0000
DL = 0.04475
BEC = 0.3192

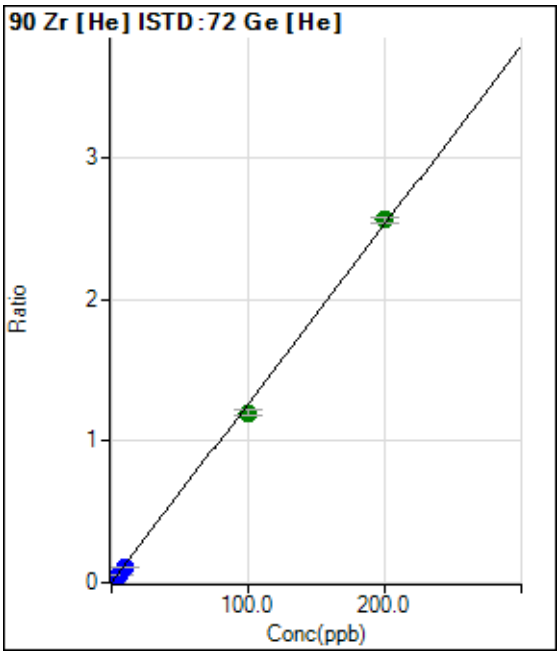
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2640.31	0.0008	P	13.2
2	☐	2.000	1.586	48729.16	0.0148	P	0.6
3	☐	5.000	4.084	122959.54	0.0369	P	0.4
4	☐	10.000	8.824	257917.44	0.0787	P	2.1
5	☐	100.000	96.266	2738459.85	0.8509	A	1.3
6	☐	200.000	201.953	5578767.00	1.7843	A	0.9

y = 0.0088 * x + 7.9048E-004
R = 0.9998
DL = 0.03532
BEC = 0.08951

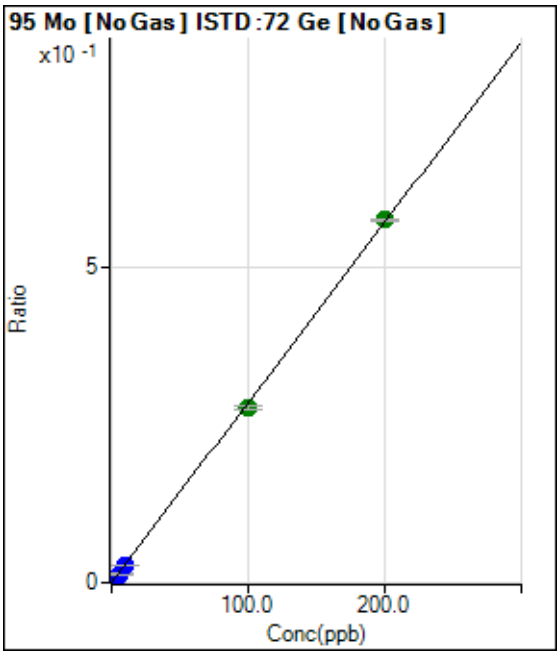
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1410.10	0.0015	P	7.3
2	☐	2.000	1.532	19421.16	0.0209	P	2.7
3	☐	5.000	4.030	48304.49	0.0525	P	3.4
4	☐	10.000	8.653	101204.83	0.1110	P	1.3
5	☐	100.000	94.853	1077254.91	1.2016	A	3.2
6	☐	200.000	202.670	2263175.23	2.5658	A	1.4

y = 0.0127 * x + 0.0015
R = 0.9996
DL = 0.02623
BEC = 0.1198

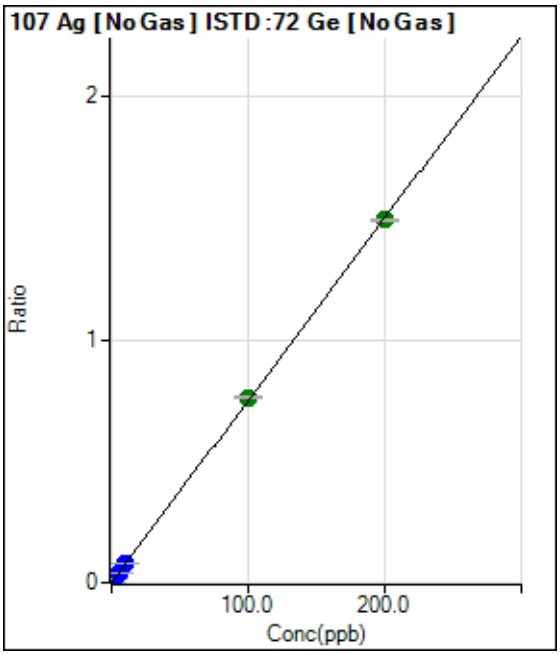
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	253.34	0.0001	P	20.4
2	☐	2.000	1.956	18586.57	0.0056	P	2.1
3	☐	5.000	4.767	45498.08	0.0136	P	3.3
4	☐	10.000	9.687	90550.56	0.0276	P	2.4
5	☐	100.000	96.976	888203.30	0.2760	A	2.4
6	☐	200.000	201.534	1793046.85	0.5735	A	0.8

y = 0.0028 * x + 7.5708E-005
R = 0.9998
DL = 0.0163
BEC = 0.02661

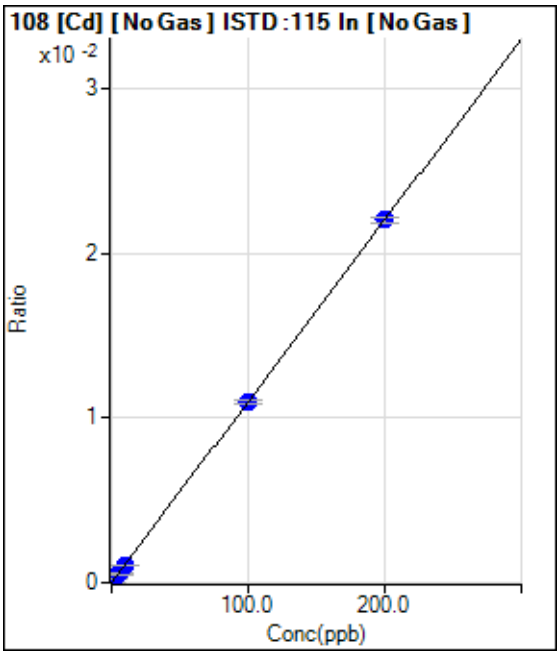
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	573.36	0.0002	P	17.6
2	☐	2.000	2.059	51383.39	0.0156	P	1.1
3	☐	5.000	5.019	126026.75	0.0378	P	0.4
4	☐	10.000	10.301	253460.76	0.0774	P	0.6
5	☐	100.000	101.576	2450163.92	0.7613	A	0.7
6	☐	200.000	199.196	4667211.60	1.4928	A	0.5

y = 0.0075 * x + 1.7140E-004
R = 1.0000
DL = 0.01205
BEC = 0.02287

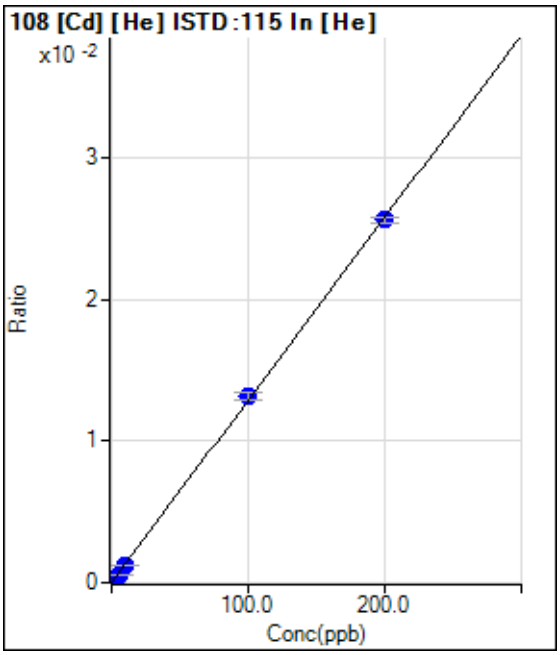
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6.67	0.0000	P	173.2
2	☐	2.000	1.907	803.37	0.0002	P	18.6
3	☐	5.000	4.917	2053.53	0.0005	P	12.3
4	☐	10.000	9.786	4000.67	0.0011	P	3.8
5	☐	100.000	99.492	40161.58	0.0110	P	2.0
6	☐	200.000	200.268	78925.09	0.0221	P	1.8

y = 1.1010E-004 * x + 1.7114E-006
R = 1.0000
DL = 0.08077
BEC = 0.01554

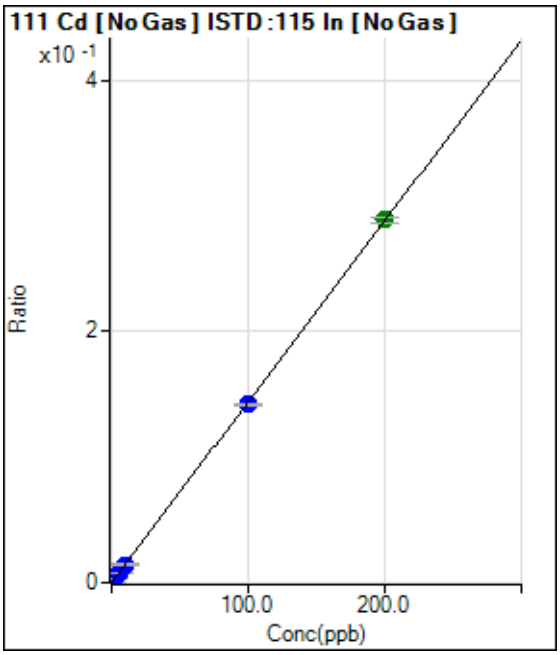
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13.33	0.0000	P	41.1
2	☐	2.000	2.138	413.35	0.0003	P	5.6
3	☐	5.000	4.390	826.71	0.0006	P	9.6
4	☐	10.000	9.639	1760.15	0.0013	P	2.2
5	☐	100.000	102.412	18136.08	0.0132	P	3.6
6	☐	200.000	198.826	35765.61	0.0256	P	1.3

y = 1.2893E-004 * x + 9.3141E-006
R = 0.9999
DL = 0.08906
BEC = 0.07224

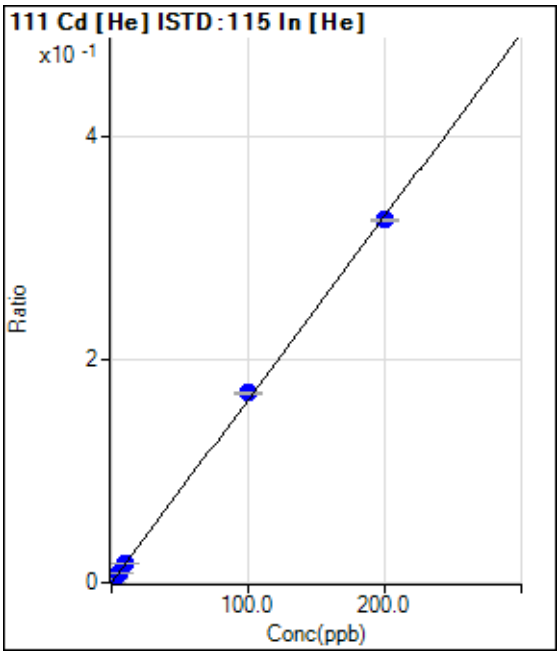
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	20.00	0.0000	P	2.3
2	☐	2.000	1.966	10747.91	0.0028	P	3.3
3	☐	5.000	4.846	26373.34	0.0070	P	1.4
4	☐	10.000	9.879	52681.95	0.0142	P	4.6
5	☐	100.000	98.613	519652.72	0.1418	P	1.6
6	☐	200.000	200.704	1033379.28	0.2886	A	1.6

y = 0.0014 * x + 5.2545E-006
R = 1.0000
DL = 0.0002479
BEC = 0.003654

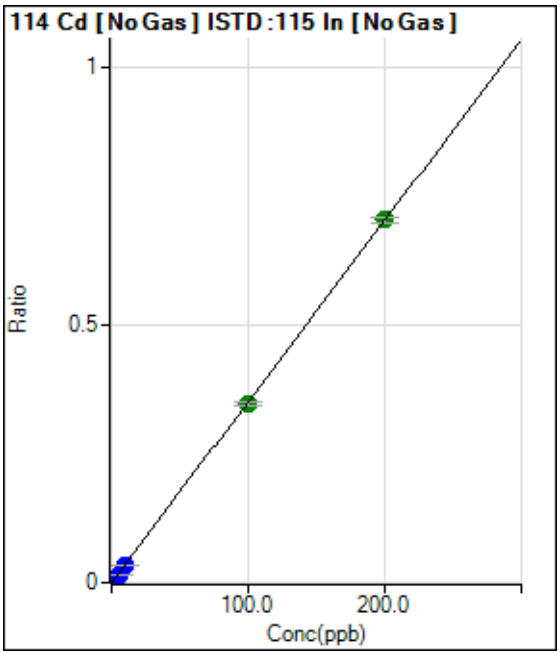
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	-0.97	0.0000	P	-1237.
2	☐	2.000	1.884	4484.19	0.0031	P	3.0
3	☐	5.000	4.860	11452.24	0.0080	P	3.0
4	☐	10.000	10.145	23395.96	0.0166	P	0.8
5	☐	100.000	103.690	233464.72	0.1701	P	1.5
6	☐	200.000	198.152	453350.88	0.3250	P	0.8

y = 0.0016 * x - 5.8568E-007
R = 0.9998
DL = 0.01326
BEC = -0.000357

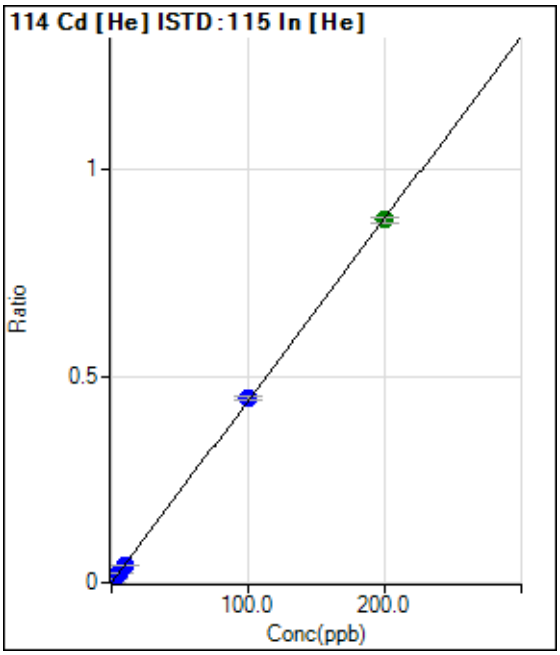
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	93.34	0.0000	P	84.8
2	☐	2.000	1.943	25922.60	0.0068	P	2.3
3	☐	5.000	4.739	62924.06	0.0166	P	1.0
4	☐	10.000	9.701	126195.91	0.0340	P	2.2
5	☐	100.000	99.133	1273445.47	0.3476	A	2.2
6	☐	200.000	200.456	2515222.57	0.7028	A	1.6

y = 0.0035 * x + 2.4318E-005
R = 1.0000
DL = 0.01765
BEC = 0.006937

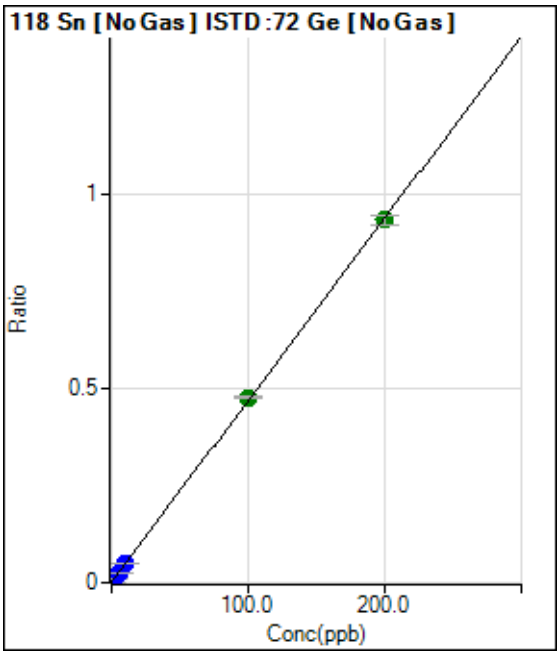
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	20.00	0.0000	P	86.7
2	☐	2.000	1.887	12089.08	0.0083	P	3.0
3	☐	5.000	4.819	30556.03	0.0213	P	1.2
4	☐	10.000	9.850	61081.54	0.0434	P	0.9
5	☐	100.000	101.380	613623.95	0.4470	P	1.7
6	☐	200.000	199.323	1225876.99	0.8789	A	1.3

y = 0.0044 * x + 1.4016E-005
R = 1.0000
DL = 0.008263
BEC = 0.003179

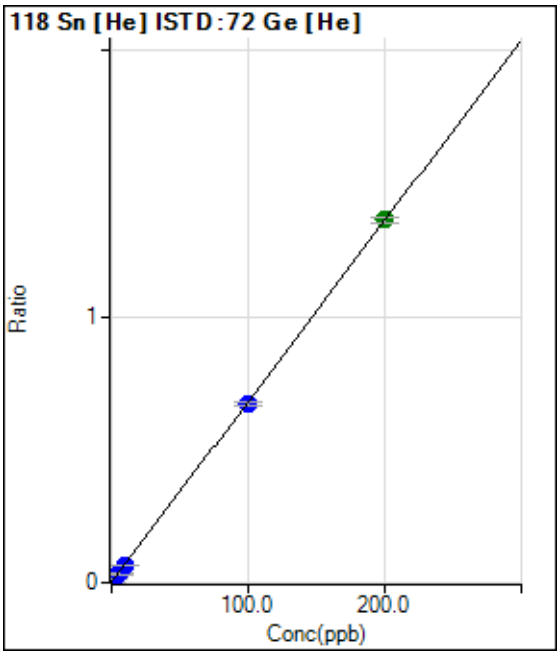
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2773.69	0.0008	P	5.5
2	☐	2.000	1.949	32724.56	0.0099	P	1.9
3	☐	5.000	4.810	77735.95	0.0233	P	0.6
4	☐	10.000	9.952	155045.35	0.0473	P	1.2
5	☐	100.000	101.432	1527676.49	0.4747	A	0.9
6	☐	200.000	199.291	2913146.00	0.9318	A	2.9

y = 0.0047 * x + 8.3116E-004
R = 1.0000
DL = 0.0291
BEC = 0.1779

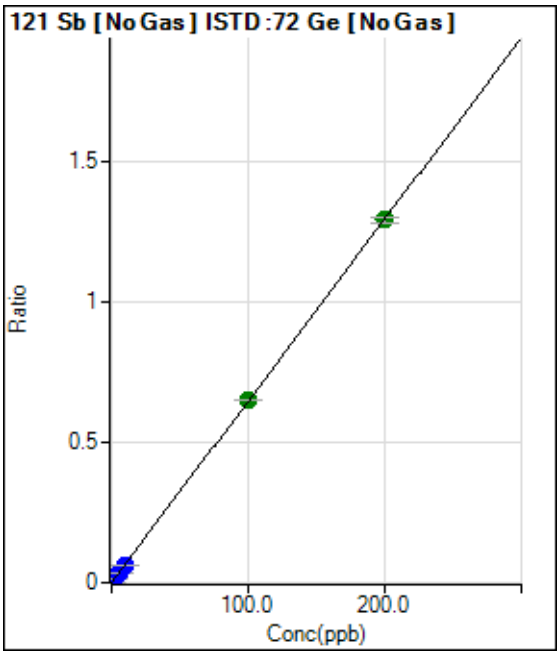
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1330.09	0.0014	P	3.8
2	☐	2.000	1.777	12542.88	0.0135	P	2.0
3	☐	5.000	4.649	30358.78	0.0330	P	4.3
4	☐	10.000	9.757	61691.82	0.0677	P	1.3
5	☐	100.000	98.932	603431.79	0.6730	P	1.5
6	☐	200.000	200.557	1201941.34	1.3628	A	1.9

y = 0.0068 * x + 0.0014
R = 1.0000
DL = 0.02372
BEC = 0.2107

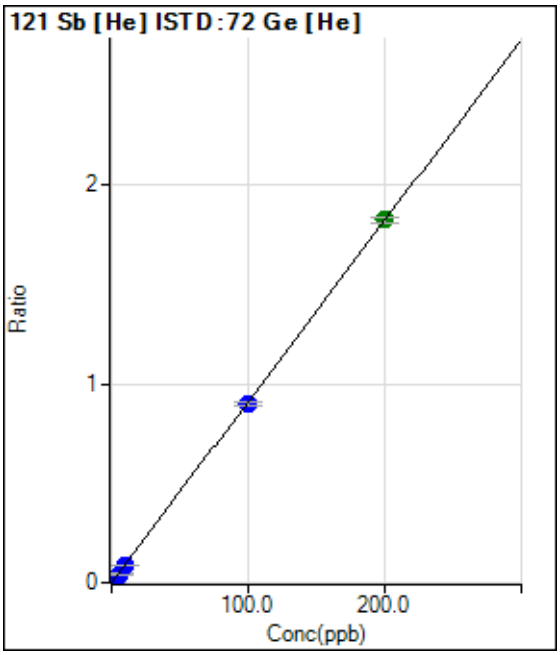
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	383.35	0.0001	P	23.0
2	☐	2.000	1.972	42378.71	0.0129	P	1.0
3	☐	5.000	4.823	104410.36	0.0313	P	1.0
4	☐	10.000	9.695	205788.36	0.0628	P	0.5
5	☐	100.000	100.482	2091630.23	0.6499	A	0.3
6	☐	200.000	199.779	4039161.81	1.2920	A	1.4

y = 0.0065 * x + 1.1513E-004
R = 1.0000
DL = 0.01226
BEC = 0.0178

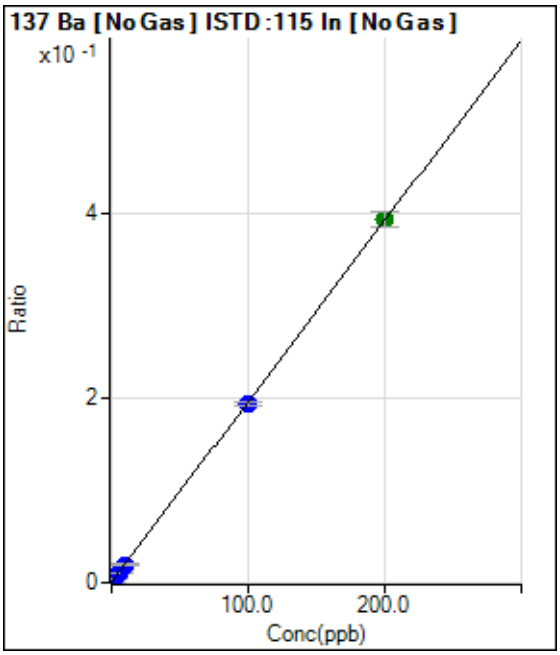
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	163.34	0.0002	P	18.8
2	☐	2.000	1.845	15779.71	0.0170	P	1.1
3	☐	5.000	4.738	39857.69	0.0433	P	2.3
4	☐	10.000	9.753	81130.38	0.0890	P	1.0
5	☐	100.000	99.041	808780.33	0.9021	P	2.2
6	☐	200.000	200.500	1610309.45	1.8260	A	1.9

y = 0.0091 * x + 1.7568E-004
R = 1.0000
DL = 0.0109
BEC = 0.01929

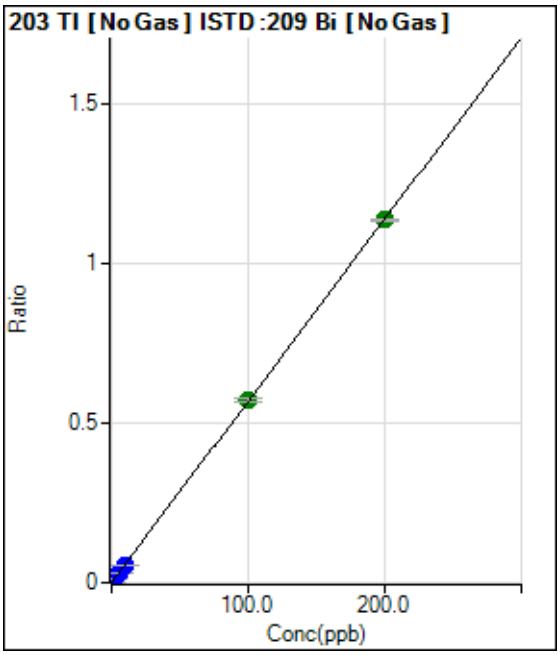
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1250.08	0.0003	P	2.7
2	☐	2.000	2.038	16367.30	0.0043	P	0.9
3	☐	5.000	4.725	36184.02	0.0096	P	2.4
4	☐	10.000	9.791	72217.24	0.0195	P	3.3
5	☐	100.000	98.964	710384.91	0.1939	P	2.2
6	☐	200.000	200.535	1404576.65	0.3926	A	4.1

y = 0.0020 * x + 3.2845E-004
R = 1.0000
DL = 0.01383
BEC = 0.1679

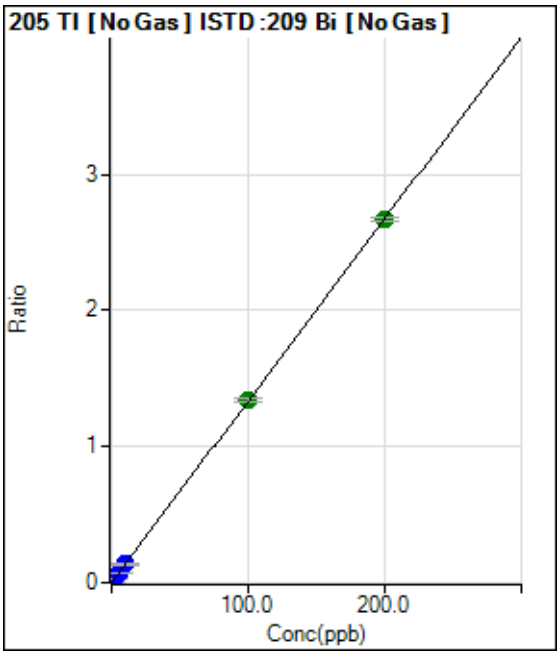
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	166.67	0.0001	P	6.7
2	☐	2.000	2.028	33016.91	0.0116	P	1.5
3	☐	5.000	4.812	80956.36	0.0274	P	1.4
4	☐	10.000	9.837	162475.83	0.0560	P	2.0
5	☐	100.000	100.520	1624939.73	0.5717	A	2.8
6	☐	200.000	199.752	3188884.59	1.1360	A	0.4

y = 0.0057 * x + 5.8981E-005
R = 1.0000
DL = 0.002072
BEC = 0.01037

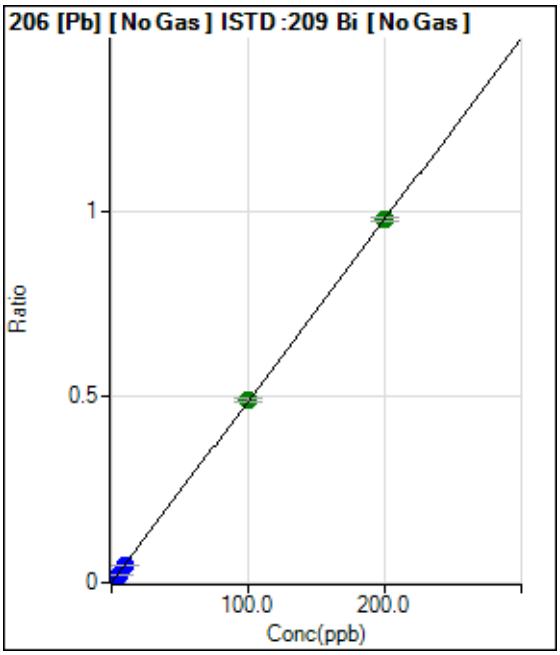
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	350.01	0.0001	P	8.6
2	☐	2.000	2.051	78341.22	0.0275	P	1.8
3	☐	5.000	4.927	194611.57	0.0659	P	0.6
4	☐	10.000	10.093	391385.57	0.1349	P	2.5
5	☐	100.000	100.782	3826266.65	1.3461	A	2.2
6	☐	200.000	199.605	7483627.48	2.6658	A	1.0

y = 0.0134 * x + 1.2386E-004
R = 1.0000
DL = 0.002389
BEC = 0.009274

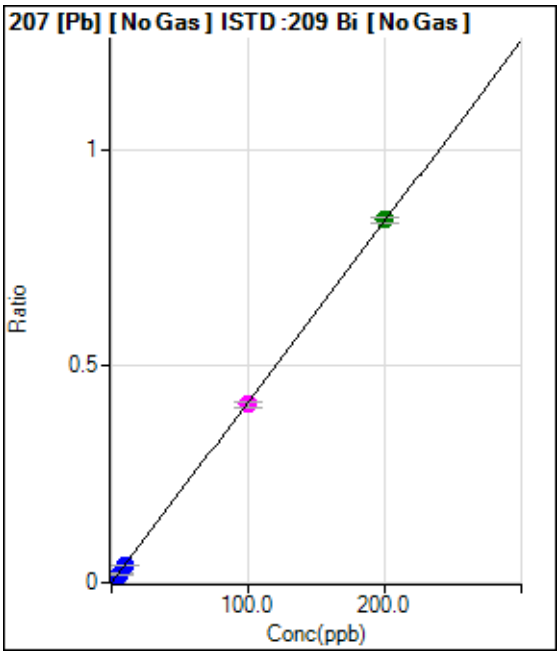
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	536.69	0.0002	P	7.1
2	☐	2.000	1.949	27617.51	0.0097	P	1.3
3	☐	5.000	4.703	68297.42	0.0231	P	1.0
4	☐	10.000	9.746	138507.50	0.0477	P	1.0
5	☐	100.000	100.257	1390776.96	0.4893	A	2.3
6	☐	200.000	199.892	2738058.60	0.9753	A	0.9

y = 0.0049 * x + 1.8998E-004
R = 1.0000
DL = 0.008316
BEC = 0.03894

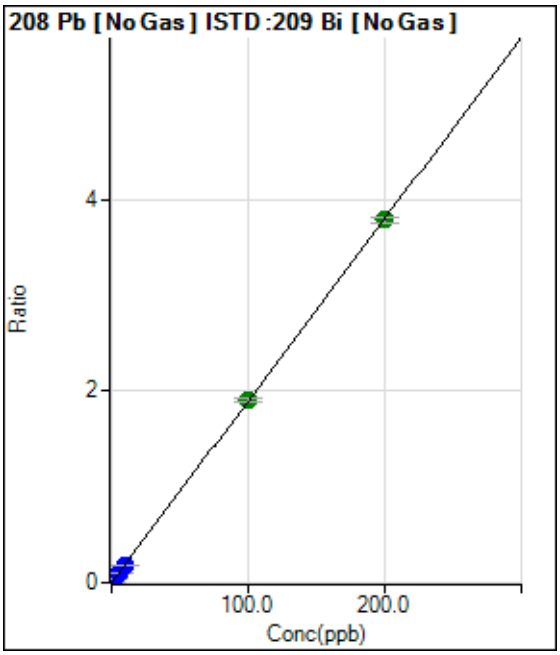
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	410.01	0.0001	P	15.6
2	☐	2.000	1.961	23686.27	0.0083	P	2.2
3	☐	5.000	4.717	58454.11	0.0198	P	1.7
4	☐	10.000	9.787	118762.73	0.0409	P	0.3
5	☐	100.000	98.467	1166656.57	0.4105	M	3.3
6	☐	200.000	200.785	2349120.49	0.8368	A	1.3

y = 0.0042 * x + 1.4486E-004
R = 1.0000
DL = 0.01626
BEC = 0.03476

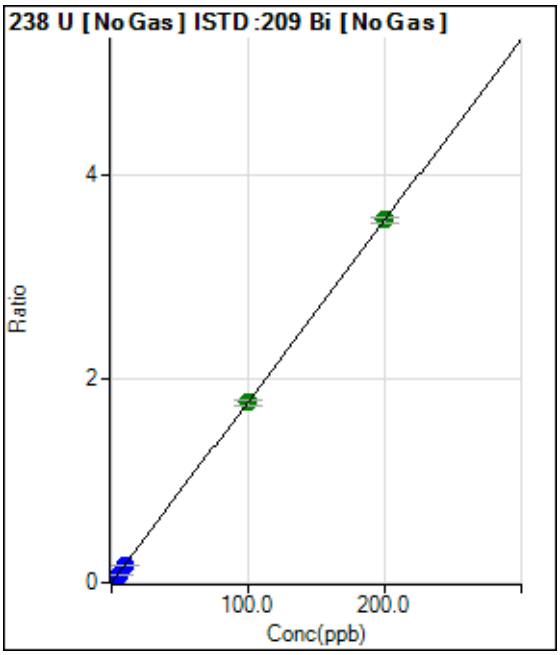
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
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2	☐	2.000	1.988	109409.54	0.0384	P	1.9
3	☐	5.000	4.762	268600.18	0.0910	P	1.0
4	☐	10.000	9.850	543890.42	0.1874	P	0.4
5	☐	100.000	100.794	5432761.30	1.9113	A	2.5
6	☐	200.000	199.617	10624277.13	3.7845	A	1.5

y = 0.0190 * x + 7.3189E-004
R = 1.0000
DL = 0.009316
BEC = 0.03861

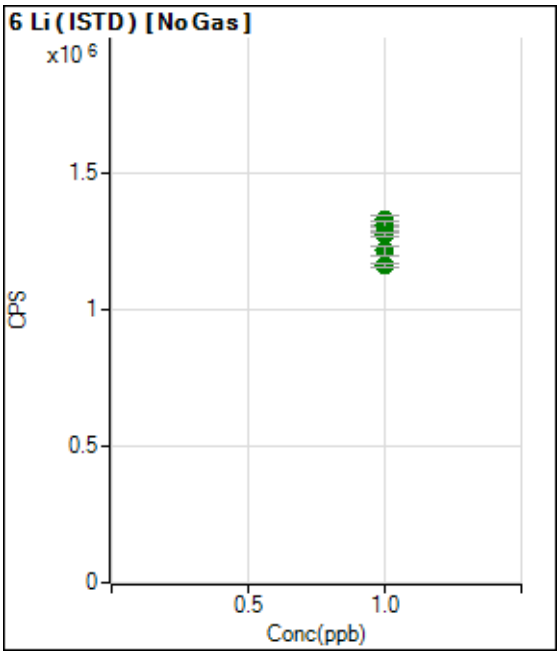
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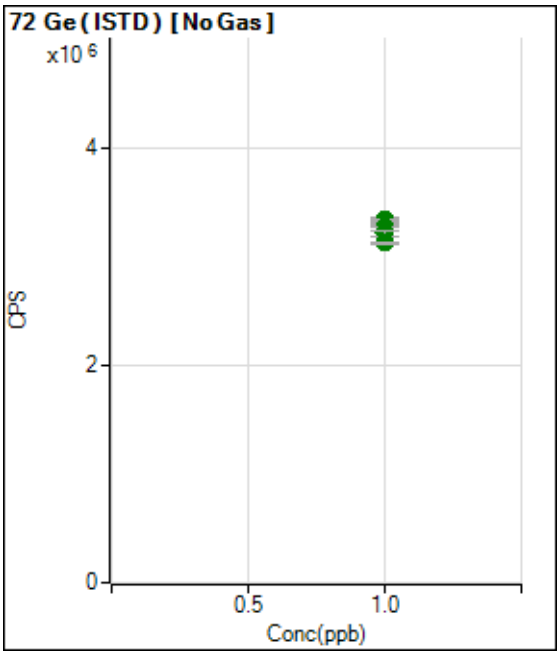
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2	☐	2.000	1.912	97106.72	0.0341	P	1.4
3	☐	5.000	4.646	243960.59	0.0826	P	1.1
4	☐	10.000	9.632	496732.17	0.1712	P	1.6
5	☐	100.000	99.397	5017698.78	1.7653	A	2.6
6	☐	200.000	200.330	9987155.27	3.5577	A	1.6

y = 0.0178 * x + 1.3923E-004
R = 1.0000
DL = 0.004878
BEC = 0.00784

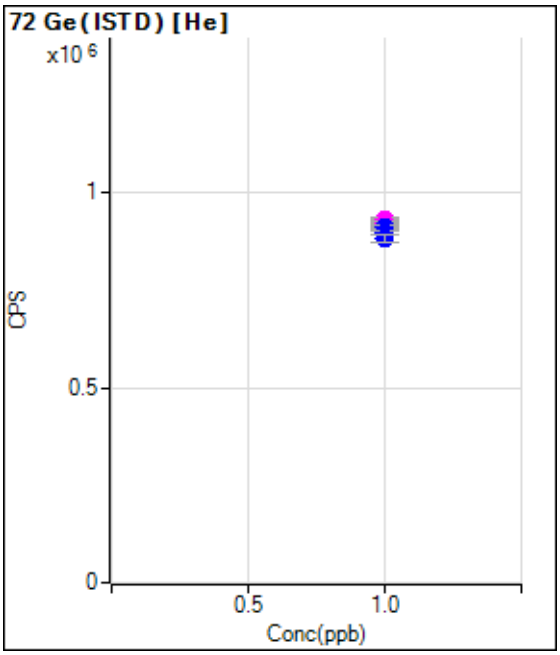
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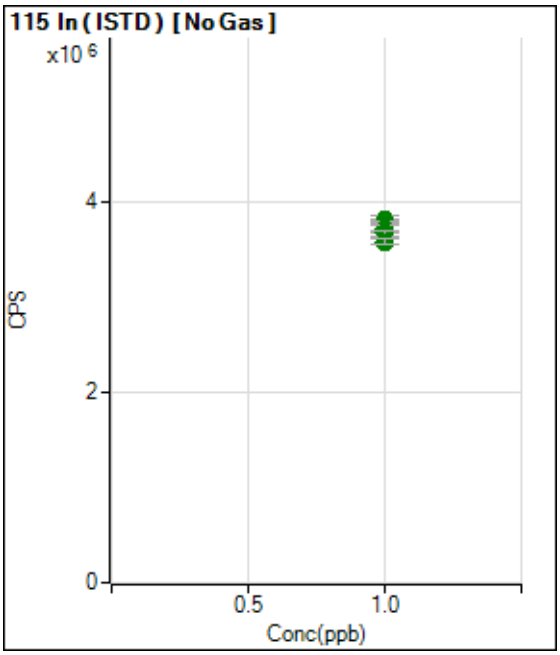
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1327242.19		A	2.4
2	☐	1.000		1311332.89		A	1.2
3	☐	1.000		1305136.24		A	2.9
4	☐	1.000		1273309.13		A	0.9
5	☐	1.000		1214772.93		A	2.7
6	☐	1.000		1160494.33		A	1.8



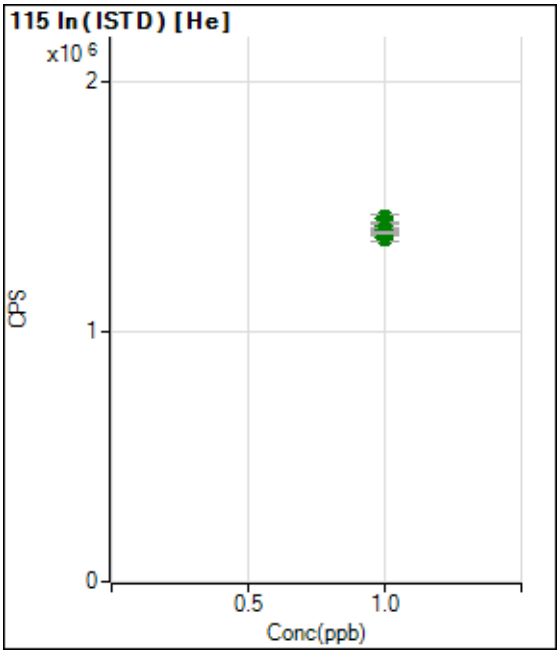
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		3339186.51		A	1.8
2	☐	1.000		3294134.53		A	0.4
3	☐	1.000		3335863.39		A	0.7
4	☐	1.000		3276420.58		A	0.2
5	☐	1.000		3218566.62		A	1.6
6	☐	1.000		3126564.95		A	0.8



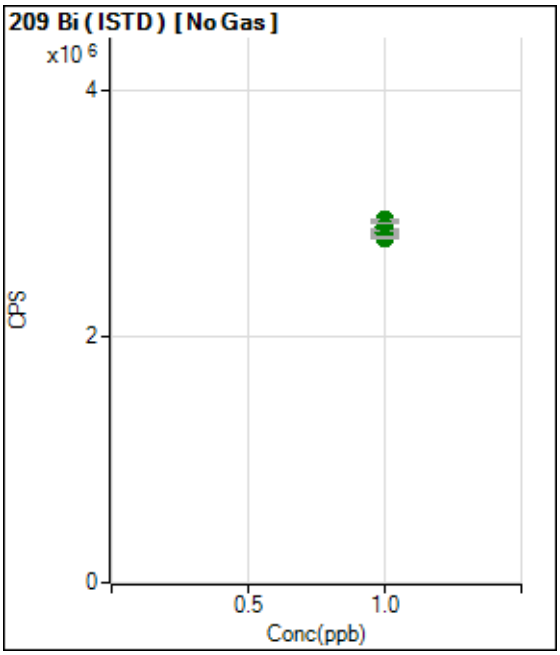
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2	☐	1.000		929394.93		M	1.6
3	☐	1.000		920240.22		M	1.6
4	☐	1.000		911737.15		P	0.9
5	☐	1.000		896719.73		P	1.2
6	☐	1.000		882110.82		P	2.0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		3807583.61		A	2.3
2	☐	1.000		3793177.63		A	0.7
3	☐	1.000		3781578.41		A	0.5
4	☐	1.000		3709108.48		A	2.3
5	☐	1.000		3664847.48		A	1.9
6	☐	1.000		3579832.98		A	1.9



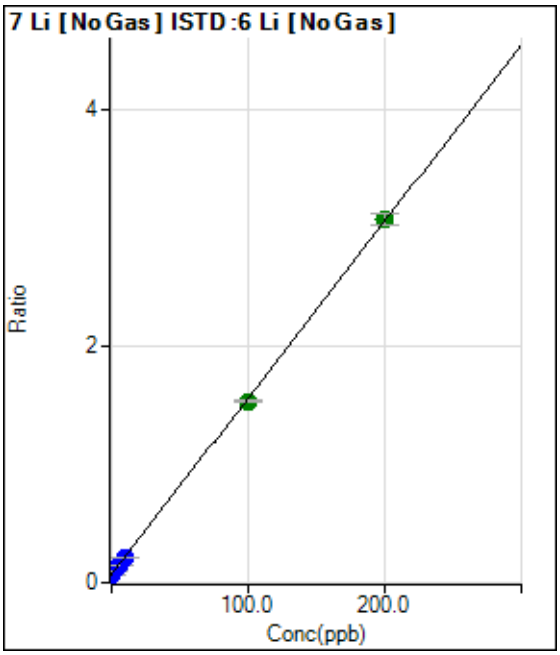
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1423850.26		A	2.1
2	☐	1.000		1450776.64		A	2.2
3	☐	1.000		1436975.75		A	0.6
4	☐	1.000		1405903.07		A	0.8
5	☐	1.000		1372805.15		A	1.5
6	☐	1.000		1394796.94		A	0.6



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2826919.23		A	1.6
2	☐	1.000		2848197.46		A	1.4
3	☐	1.000		2952020.27		A	0.7
4	☐	1.000		2901801.31		A	1.7
5	☐	1.000		2843070.90		A	1.3
6	☐	1.000		2807195.48		A	0.6

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Analysis File: 061224A.batch.bin
DA Date-Time: 6/12/2024 9:46:07 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

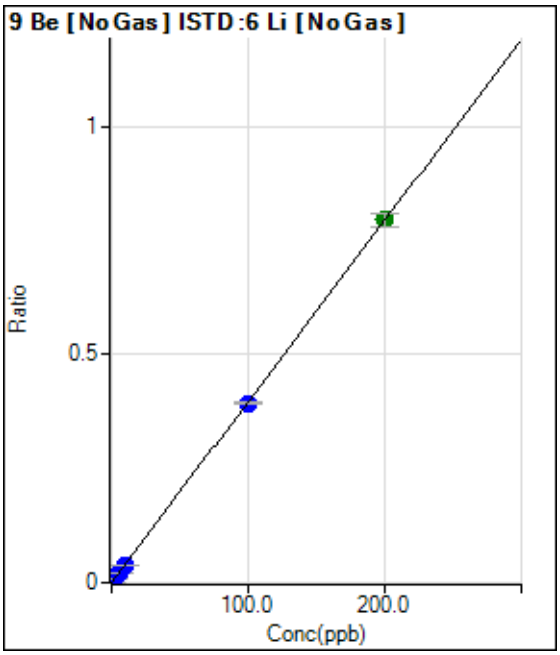
Level	Standard Data File	Sample Name	Acq. Date-Time
1	222CALB.d	CAL BLK	6/12/2024 7:40:00 PM
2	223CALS.d	2/10/200	6/12/2024 7:41:58 PM
3	224CALS.d	5/25/500	6/12/2024 7:43:54 PM
4	225CALS.d	10/50/100	6/12/2024 7:45:50 PM
5	226CALS.d	100/500/10K	6/12/2024 7:47:46 PM
6	227CALS.d	200/1000/20K	6/12/2024 7:49:34 PM



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	78270.74	0.0701	P	1.9
2	☐	2.000	1.748	109073.35	0.0962	P	0.8
3	☐	5.000	4.929	158300.64	0.1436	P	1.9
4	☐	10.000	9.548	236145.36	0.2125	P	1.3
5	☐	100.000	98.252	1654646.33	1.5362	A	2.0
6	☐	200.000	200.901	3054933.70	3.0679	A	3.2

y = 0.0149 * x + 0.0701
R = 0.9999
DL = 0.2707
BEC = 4.696

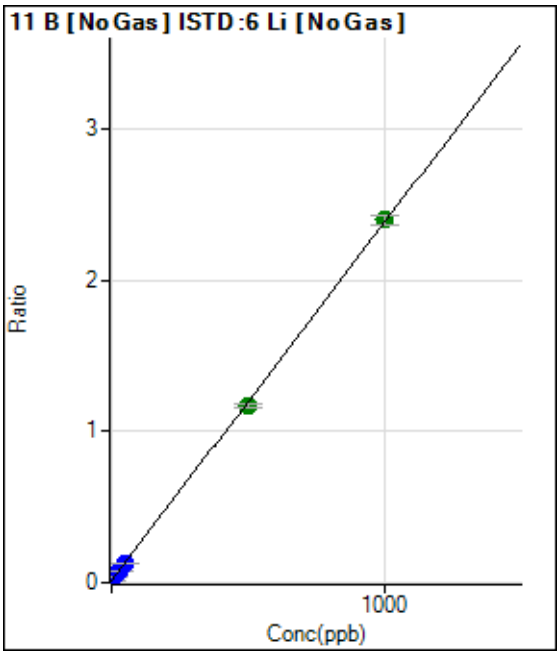
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	26.67	0.0000	P	54.7
2	☐	2.000	1.879	8480.94	0.0075	P	2.1
3	☐	5.000	5.005	21913.77	0.0199	P	2.2
4	☐	10.000	9.618	42425.53	0.0382	P	1.5
5	☐	100.000	99.199	423965.85	0.3936	P	1.7
6	☐	200.000	200.421	791908.92	0.7952	A	3.7

y = 0.0040 * x + 2.3964E-005
R = 1.0000
DL = 0.009909
BEC = 0.00604

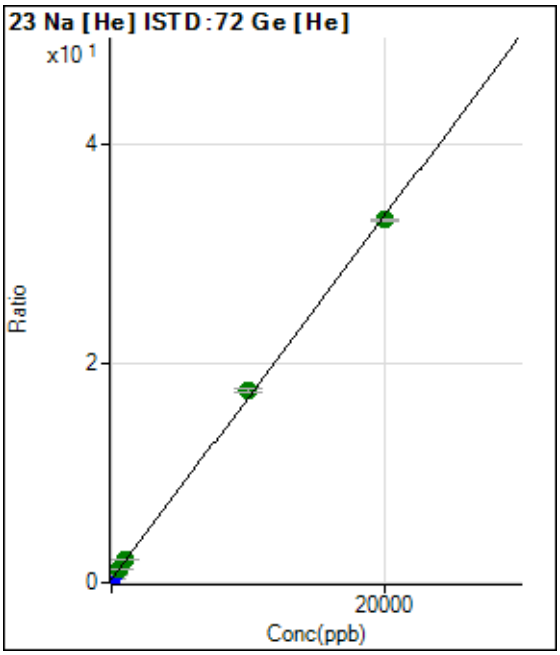
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	15723.91	0.0141	P	2.7
2	☐	10.000	8.858	39759.46	0.0350	P	0.5
3	☐	25.000	24.187	78630.02	0.0713	P	1.0
4	☐	50.000	47.467	140487.96	0.1264	P	0.6
5	☐	500.000	485.967	1254298.63	1.1645	A	2.3
6	☐	1000.000	1007.175	2388402.05	2.3984	A	3.0

y = 0.0024 * x + 0.0141
R = 0.9999
DL = 0.4744
BEC = 5.946

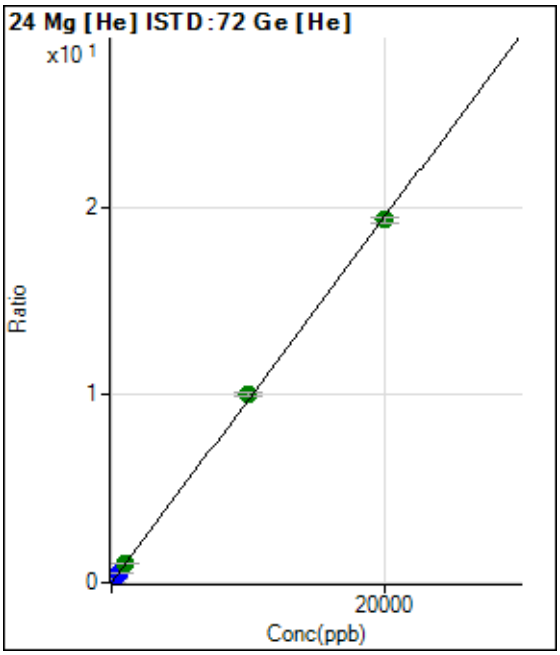
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	250337.57	0.3029	P	1.2
2	☐	200.000	216.151	548830.42	0.6618	P	2.7
3	☐	500.000	531.567	979202.56	1.1854	A	1.9
4	☐	1000.000	1072.900	1708534.45	2.0841	A	2.7
5	☐	10000.00	10423.60	14005197.71	17.6073	A	2.2
6	☐	20000.00	19783.60	26186994.61	33.1460	A	0.4

y = 0.0017 * x + 0.3029
R = 0.9997
DL = 6.801
BEC = 182.5

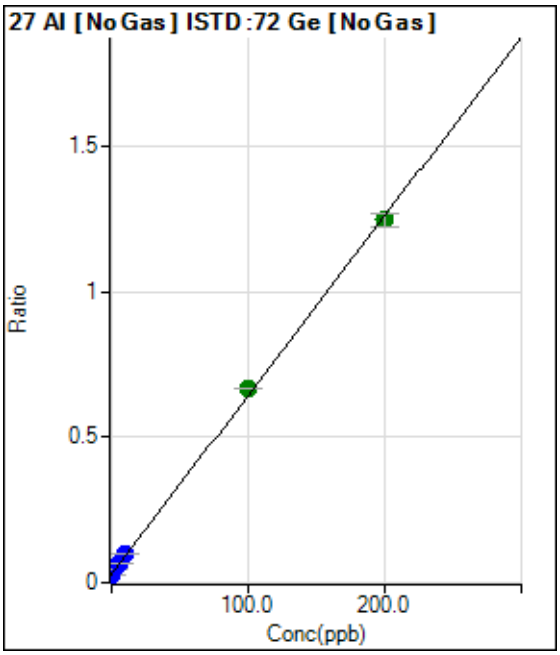
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2970.36	0.0036	P	3.0
2	☐	200.000	210.955	173516.75	0.2092	P	0.8
3	☐	500.000	542.979	440014.59	0.5327	P	0.3
4	☐	1000.000	1080.962	866593.71	1.0569	A	0.2
5	☐	10000.00	10300.07	7986144.26	10.0405	A	2.1
6	☐	20000.00	19844.73	15279873.94	19.3412	A	1.3

y = 9.7445E-004 * x + 0.0036
R = 0.9998
DL = 0.3369
BEC = 3.688

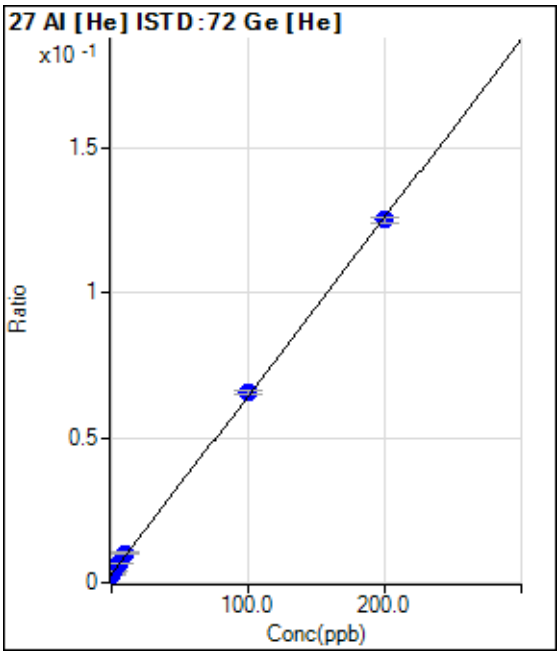
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	90137.60	0.0286	P	0.7
2	☐	2.000	2.372	137010.53	0.0432	P	0.8
3	☐	5.000	5.780	202058.47	0.0641	P	0.5
4	☐	10.000	11.644	314790.45	0.1002	P	1.6
5	☐	100.000	103.905	2003942.06	0.6675	A	0.6
6	☐	200.000	197.942	3710723.17	1.2458	A	3.8

y = 0.0061 * x + 0.0286
R = 0.9997
DL = 0.09756
BEC = 4.652

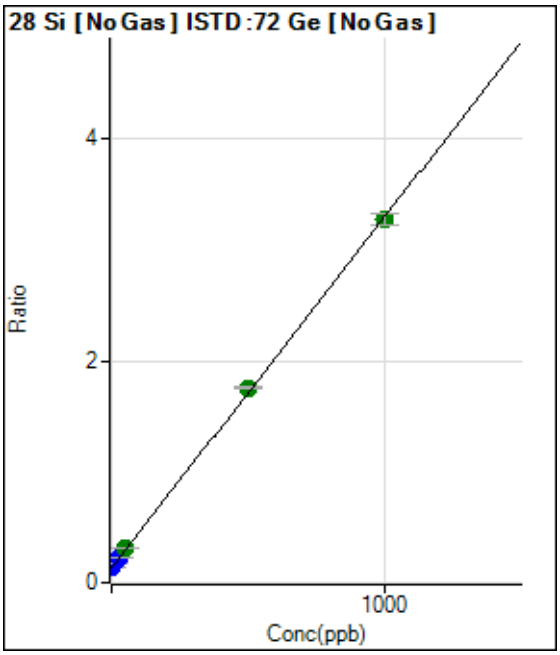
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2443.60	0.0030	P	6.1
2	☐	2.000	1.865	3403.81	0.0041	P	2.4
3	☐	5.000	5.717	5347.80	0.0065	P	1.5
4	☐	10.000	11.664	8305.95	0.0101	P	6.3
5	☐	100.000	102.363	52452.47	0.0659	P	1.8
6	☐	200.000	198.719	98939.78	0.1252	P	1.3

y = 6.1533E-004 * x + 0.0030
R = 0.9999
DL = 0.8832
BEC = 4.804

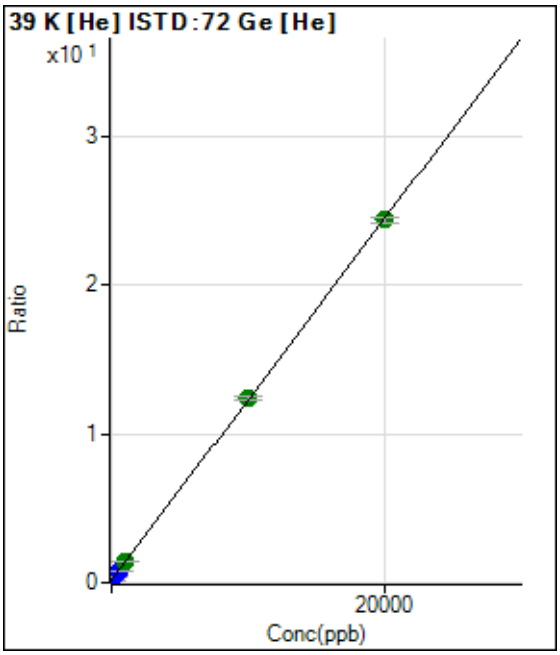
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	413920.80	0.1314	P	0.5
2	☐	10.000	10.876	525667.00	0.1657	P	0.8
3	☐	25.000	28.205	694489.86	0.2205	P	1.2
4	☐	50.000	56.098	969447.12	0.3086	A	2.7
5	☐	500.000	514.578	5275969.30	1.7574	A	0.4
6	☐	1000.000	992.317	9733149.86	3.2670	A	3.2

y = 0.0032 * x + 0.1314
R = 0.9999
DL = 0.6715
BEC = 41.57

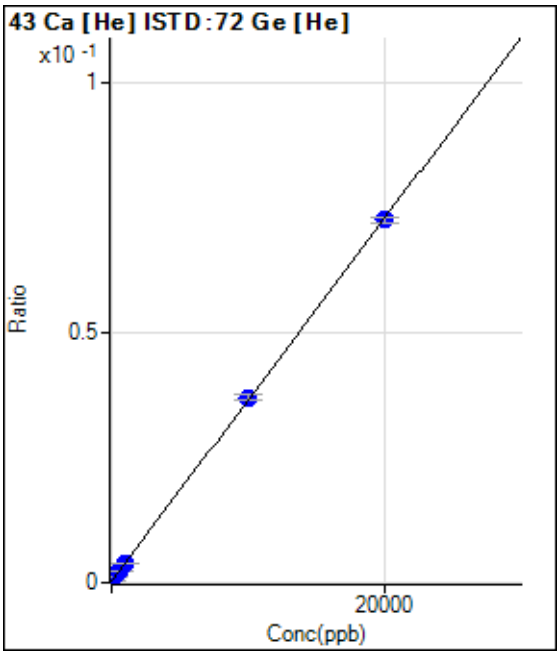
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	124547.34	0.1507	P	1.0
2	☐	200.000	207.637	334136.77	0.4028	P	0.8
3	☐	500.000	525.324	651296.27	0.7885	P	0.5
4	☐	1000.000	1057.069	1175601.78	1.4340	A	3.0
5	☐	10000.00	10096.95	9870279.85	12.4087	A	2.8
6	☐	20000.00	19947.96	19253437.21	24.3681	A	1.3

y = 0.0012 * x + 0.1507
R = 1.0000
DL = 3.809
BEC = 124.1

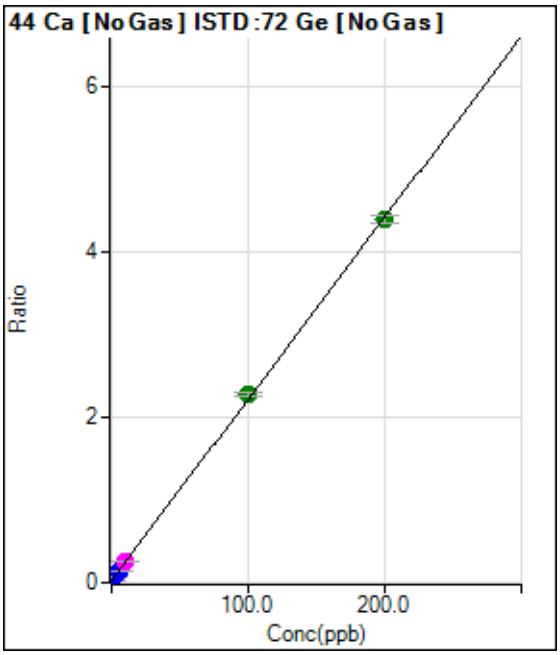
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	220.01	0.0003	P	35.9
2	☐	200.000	223.453	893.38	0.0011	P	19.2
3	☐	500.000	545.677	1856.83	0.0022	P	10.0
4	☐	1000.000	1024.283	3267.12	0.0040	P	1.9
5	☐	10000.00	10152.24	29525.44	0.0371	P	3.7
6	☐	20000.00	19921.28	57339.50	0.0726	P	1.8

y = 3.6297E-006 * x + 2.6645E-004
R = 1.0000
DL = 79.04
BEC = 73.41

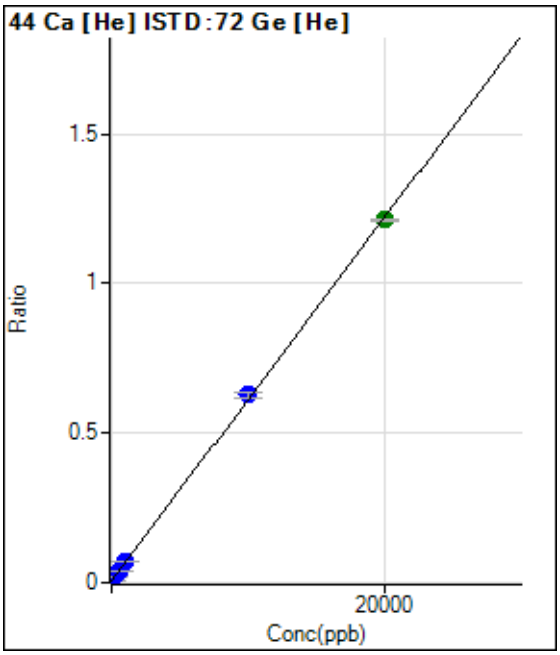
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	77427.04	0.0246	P	1.5
2	☐	2.000	2.079	222465.42	0.0701	P	0.9
3	☐	5.000	5.275	441605.98	0.1402	P	1.1
4	☐	10.000	10.295	786101.71	0.2502	M	1.4
5	☐	100.000	102.389	6811687.40	2.2689	A	1.9
6	☐	200.000	198.783	13055134.39	4.3819	A	2.3

y = 0.0219 * x + 0.0246
R = 0.9999
DL = 0.05077
BEC = 1.121

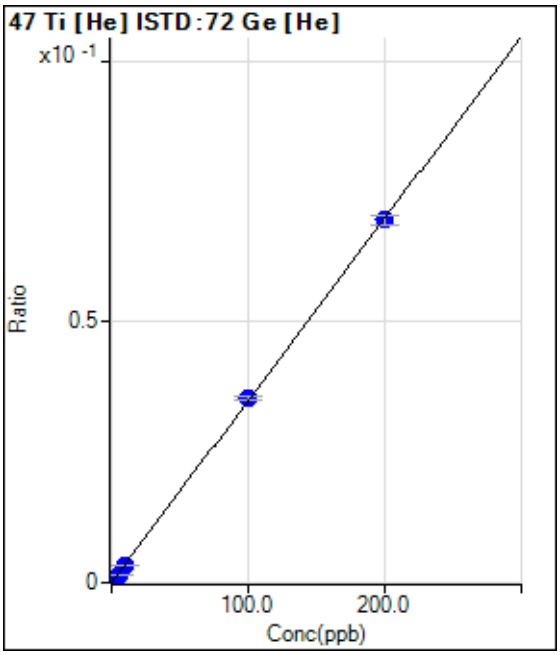
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4414.11	0.0053	P	1.2
2	☐	200.000	206.802	14848.22	0.0179	P	3.0
3	☐	500.000	519.489	30480.83	0.0369	P	2.6
4	☐	1000.000	1045.294	56439.28	0.0688	P	2.3
5	☐	10000.00	10235.84	498853.03	0.6271	P	2.5
6	☐	20000.00	19879.25	958384.41	1.2130	A	0.8

y = 6.0748E-005 * x + 0.0053
R = 0.9999
DL = 3.057
BEC = 87.92

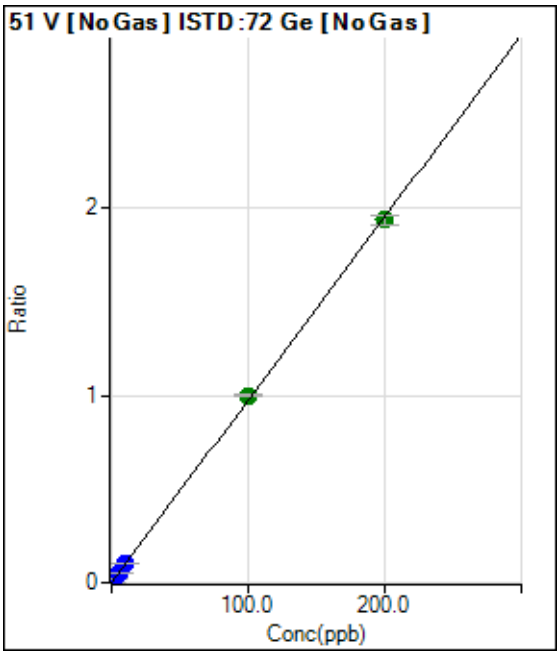
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	20.00	0.0000	P	86.6
2	☐	2.000	1.841	553.36	0.0007	P	6.4
3	☐	5.000	4.441	1300.09	0.0016	P	4.5
4	☐	10.000	9.437	2720.31	0.0033	P	5.3
5	☐	100.000	101.391	28162.60	0.0354	P	2.8
6	☐	200.000	199.348	54977.00	0.0696	P	2.3

y = 3.4895E-004 * x + 2.4291E-005
R = 1.0000
DL = 0.1809
BEC = 0.06961

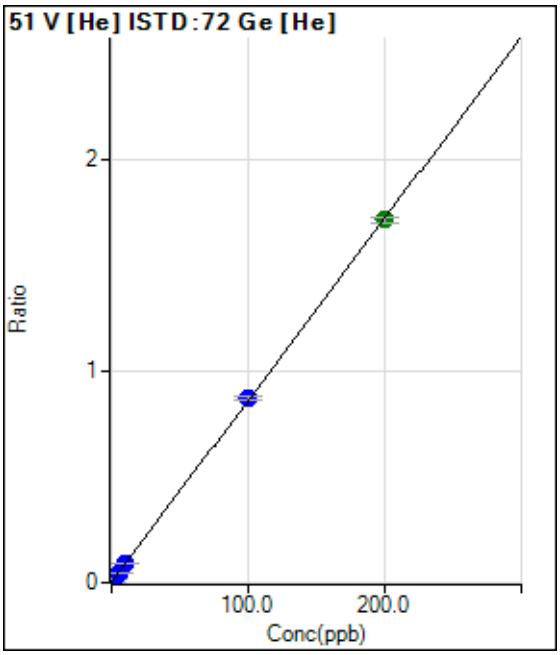
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	-7399.81	-0.0024	P	-50.0
2	☐	2.000	2.021	55185.83	0.0174	P	10.2
3	☐	5.000	5.183	152163.76	0.0483	P	3.7
4	☐	10.000	10.159	304626.22	0.0970	P	0.9
5	☐	100.000	102.529	3002398.92	1.0000	A	0.9
6	☐	200.000	198.723	5780744.98	1.9405	A	2.9

y = 0.0098 * x - 0.0024
R = 0.9999
DL = 0.3607
BEC = -0.2405

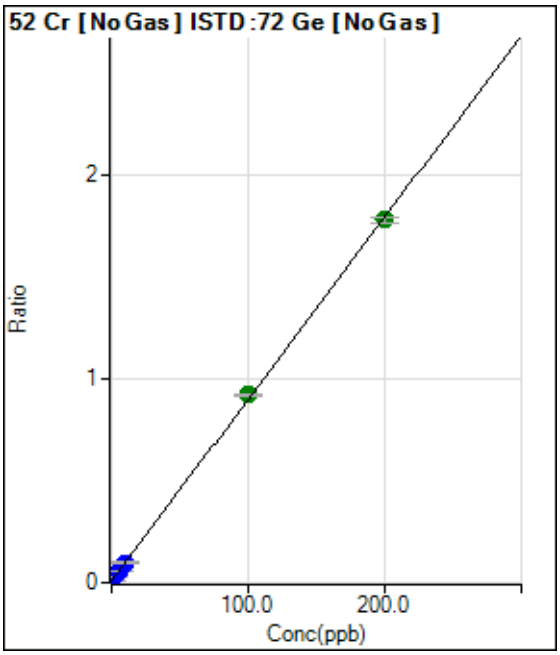
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1722.99	0.0021	P	40.1
2	☐	2.000	1.829	14772.50	0.0178	P	4.0
3	☐	5.000	4.806	35856.02	0.0434	P	4.6
4	☐	10.000	9.935	71743.26	0.0875	P	2.2
5	☐	100.000	101.373	694970.26	0.8737	P	1.5
6	☐	200.000	199.323	1355786.81	1.7159	A	1.8

y = 0.0086 * x + 0.0021
R = 1.0000
DL = 0.2912
BEC = 0.2421

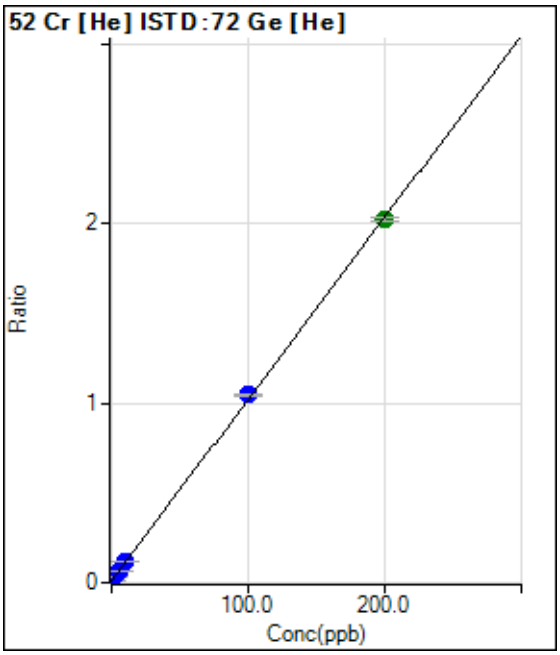
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	24265.20	0.0077	P	3.4
2	☐	2.000	2.066	82997.37	0.0262	P	0.6
3	☐	5.000	5.297	173410.63	0.0551	P	1.5
4	☐	10.000	10.161	309554.32	0.0985	P	1.5
5	☐	100.000	102.654	2778230.79	0.9254	A	0.8
6	☐	200.000	198.657	5314523.46	1.7837	A	1.9

y = 0.0089 * x + 0.0077
R = 0.9999
DL = 0.08907
BEC = 0.8616

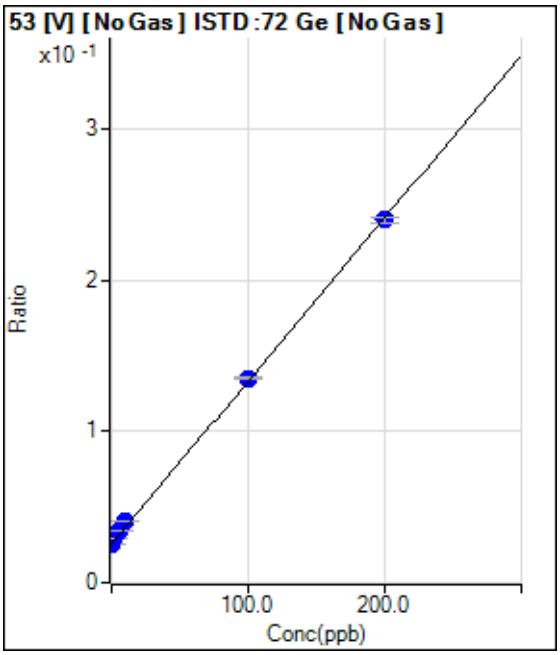
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	7902.45	0.0096	P	3.5
2	☐	2.000	2.028	24966.31	0.0301	P	1.6
3	☐	5.000	5.080	50389.78	0.0610	P	1.9
4	☐	10.000	10.375	93967.22	0.1146	P	1.9
5	☐	100.000	102.406	832437.77	1.0465	P	1.2
6	☐	200.000	198.776	1597861.49	2.0223	A	0.9

y = 0.0101 * x + 0.0096
R = 0.9999
DL = 0.1004
BEC = 0.9444

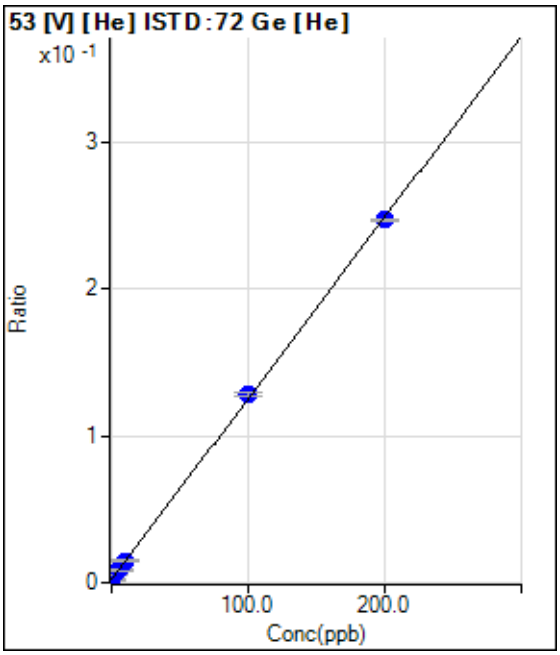
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	80824.43	0.0257	P	0.1
2	☐	2.000	3.750	94182.52	0.0297	P	1.2
3	☐	5.000	7.758	107134.50	0.0340	P	1.0
4	☐	10.000	13.624	126712.22	0.0403	P	1.1
5	☐	100.000	101.646	405833.20	0.1352	P	1.0
6	☐	200.000	198.909	715106.47	0.2400	P	1.8

y = 0.0011 * x + 0.0257
R = 0.9999
DL = 0.04154
BEC = 23.8

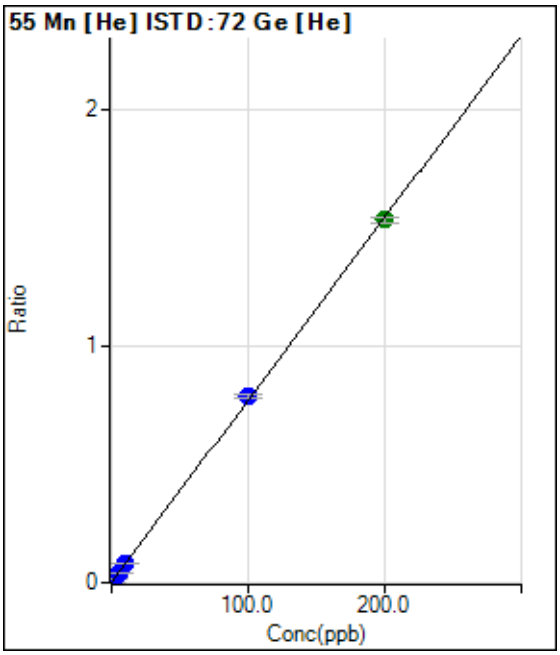
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1676.80	0.0020	P	13.7
2	☐	2.000	2.255	3987.34	0.0048	P	3.5
3	☐	5.000	5.419	7188.67	0.0087	P	5.3
4	☐	10.000	10.504	12269.10	0.0150	P	3.0
5	☐	100.000	102.433	101948.21	0.1282	P	2.6
6	☐	200.000	198.745	194964.54	0.2468	P	0.5

y = 0.0012 * x + 0.0020
R = 0.9999
DL = 0.6777
BEC = 1.648

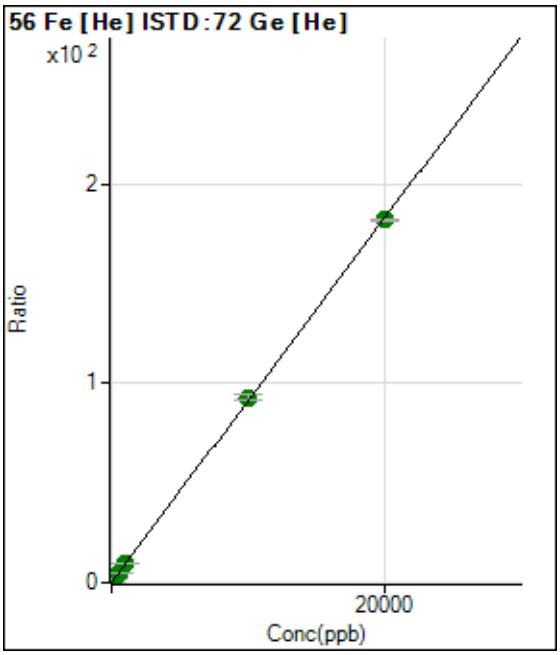
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1016.73	0.0012	P	1.4
2	☐	2.000	1.956	13513.58	0.0163	P	1.4
3	☐	5.000	4.979	32676.02	0.0396	P	2.8
4	☐	10.000	10.231	65594.16	0.0800	P	1.2
5	☐	100.000	102.280	627409.21	0.7888	P	2.2
6	☐	200.000	198.849	1210560.95	1.5323	A	1.5

y = 0.0077 * x + 0.0012
R = 0.9999
DL = 0.006819
BEC = 0.1598

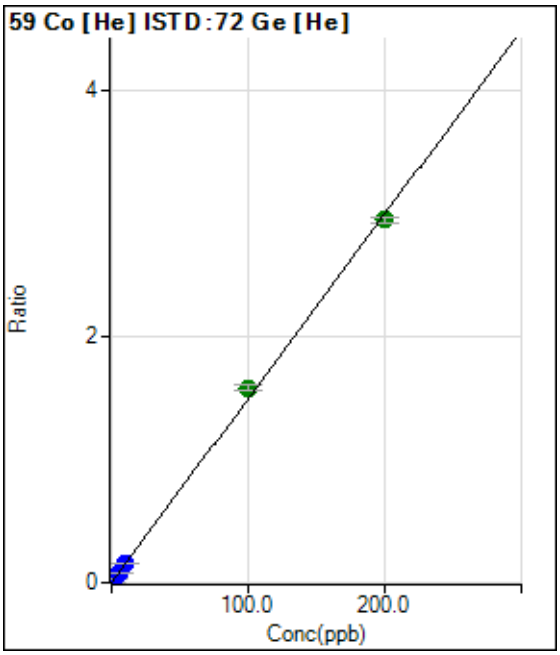
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	27634.91	0.0334	P	1.8
2	☐	200.000	204.645	1581436.64	1.9061	A	1.7
3	☐	500.000	517.606	3940227.34	4.7700	A	1.5
4	☐	1000.000	1015.561	7646602.60	9.3268	A	1.7
5	☐	10000.00	10166.74	74030342.23	93.0692	A	2.9
6	☐	20000.00	19915.36	144014304.5	182.278	A	0.5

y = 0.0092 * x + 0.0334
R = 1.0000
DL = 0.2014
BEC = 3.654

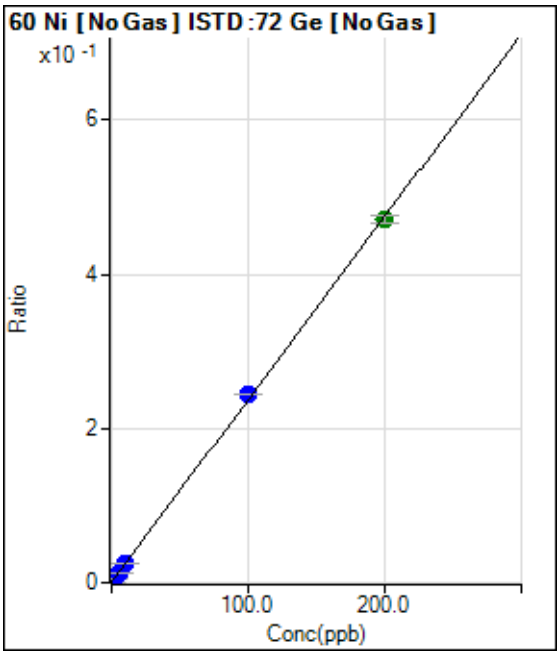
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	126.67	0.0002	P	5.2
2	☐	2.000	2.002	24966.52	0.0301	P	2.2
3	☐	5.000	5.143	63681.95	0.0771	P	1.2
4	☐	10.000	10.374	127360.12	0.1553	P	1.9
5	☐	100.000	105.804	1259052.72	1.5829	A	2.6
6	☐	200.000	197.076	2329448.51	2.9483	A	1.3

y = 0.0150 * x + 1.5330E-004
R = 0.9994
DL = 0.001594
BEC = 0.01025

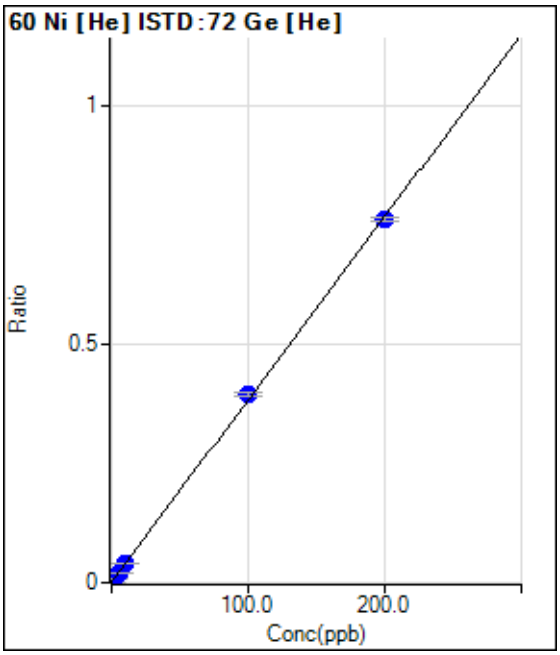
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1573.46	0.0005	P	3.7
2	☐	2.000	2.073	17154.42	0.0054	P	2.6
3	☐	5.000	5.254	40768.02	0.0129	P	1.5
4	☐	10.000	10.378	78787.00	0.0251	P	1.0
5	☐	100.000	103.246	735601.86	0.2450	P	0.3
6	☐	200.000	198.351	1401149.25	0.4703	A	2.2

y = 0.0024 * x + 4.9947E-004
R = 0.9998
DL = 0.0233
BEC = 0.2109

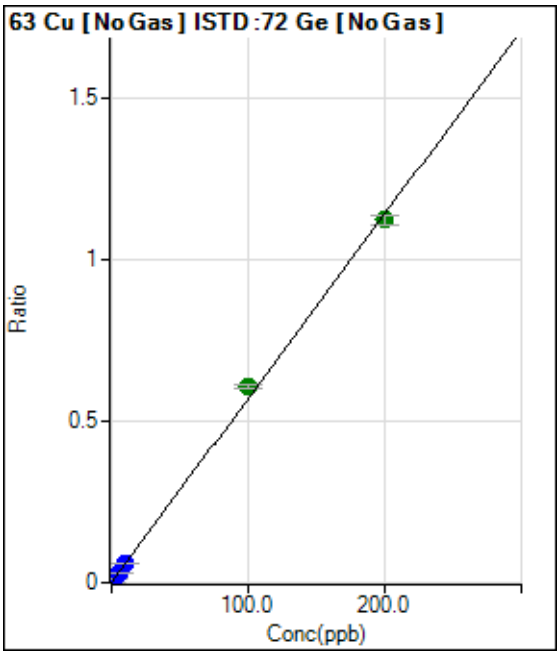
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	596.69	0.0007	P	19.5
2	☐	2.000	2.105	7288.73	0.0088	P	3.8
3	☐	5.000	5.185	17007.59	0.0206	P	2.7
4	☐	10.000	10.111	32358.94	0.0395	P	2.0
5	☐	100.000	103.119	314863.77	0.3958	P	1.5
6	☐	200.000	198.429	601246.67	0.7611	P	0.9

y = 0.0038 * x + 7.2148E-004
R = 0.9998
DL = 0.1103
BEC = 0.1883

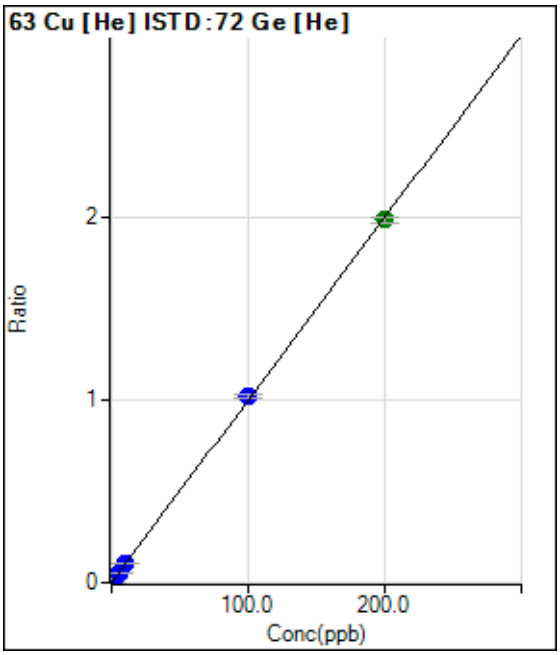
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1843.50	0.0006	P	17.4
2	☐	2.000	2.048	38859.10	0.0123	P	1.1
3	☐	5.000	5.185	94896.55	0.0301	P	3.1
4	☐	10.000	10.262	185520.73	0.0591	P	1.9
5	☐	100.000	105.984	1814891.12	0.6045	A	2.0
6	☐	200.000	196.990	3345917.97	1.1230	A	2.3

y = 0.0057 * x + 5.8463E-004
R = 0.9994
DL = 0.05369
BEC = 0.1026

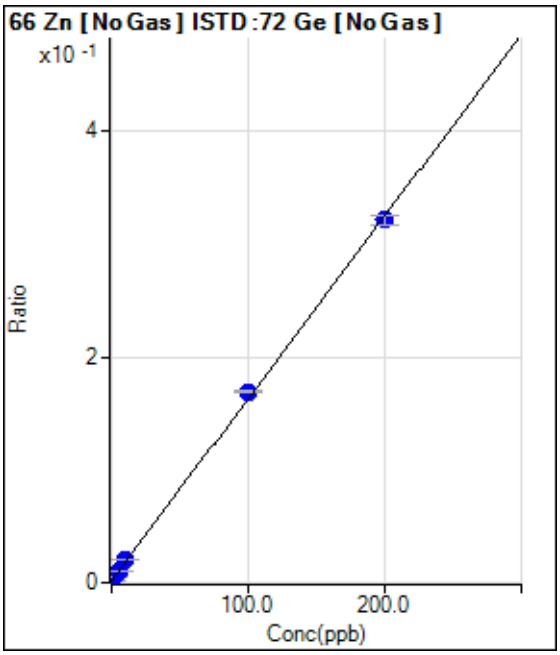
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	883.38	0.0011	P	15.5
2	☐	2.000	1.993	17378.12	0.0209	P	2.3
3	☐	5.000	5.061	42560.39	0.0515	P	1.6
4	☐	10.000	10.252	84672.98	0.1033	P	2.6
5	☐	100.000	102.318	812256.97	1.0212	P	2.3
6	☐	200.000	198.827	1567008.99	1.9834	A	1.6

y = 0.0100 * x + 0.0011
R = 0.9999
DL = 0.04999
BEC = 0.1073

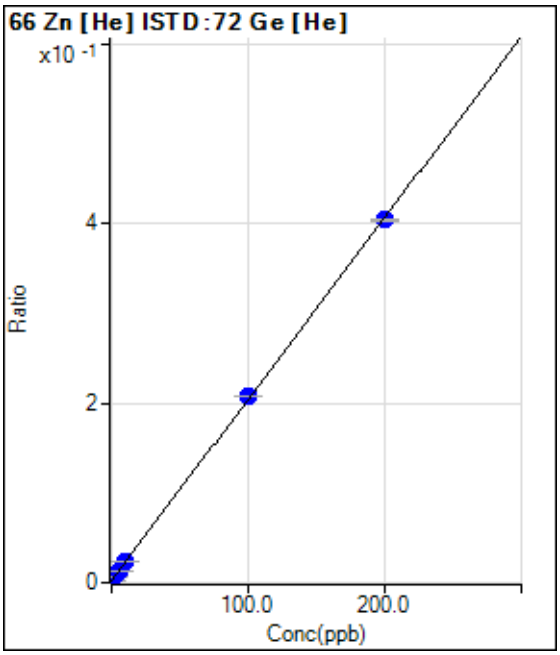
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5621.27	0.0018	P	1.9
2	☐	2.000	2.432	18095.73	0.0057	P	1.2
3	☐	5.000	5.471	33394.68	0.0106	P	3.2
4	☐	10.000	11.195	62303.04	0.0198	P	2.3
5	☐	100.000	103.623	506844.79	0.1688	P	0.7
6	☐	200.000	198.113	956804.39	0.3212	P	2.4

y = 0.0016 * x + 0.0018
R = 0.9998
DL = 0.06334
BEC = 1.107

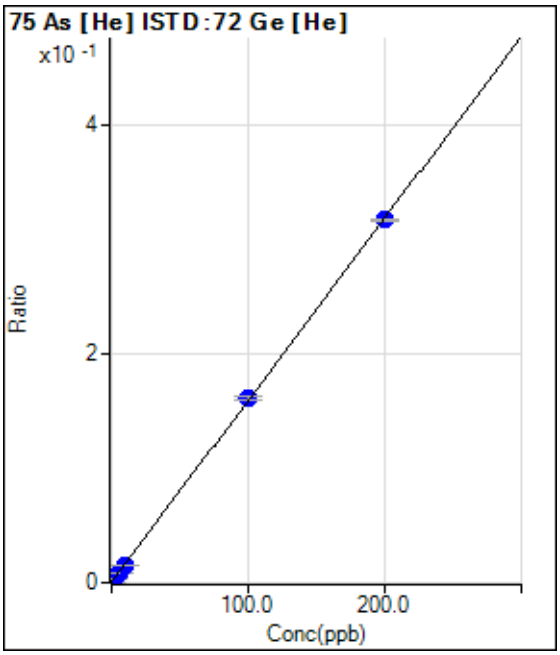
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1966.85	0.0024	P	3.1
2	☐	2.000	2.281	5791.32	0.0070	P	1.4
3	☐	5.000	5.237	10691.02	0.0129	P	2.4
4	☐	10.000	10.941	20045.11	0.0244	P	0.7
5	☐	100.000	101.961	165486.16	0.2080	P	0.4
6	☐	200.000	198.963	318946.54	0.4037	P	0.3

y = 0.0020 * x + 0.0024
R = 0.9999
DL = 0.1108
BEC = 1.18

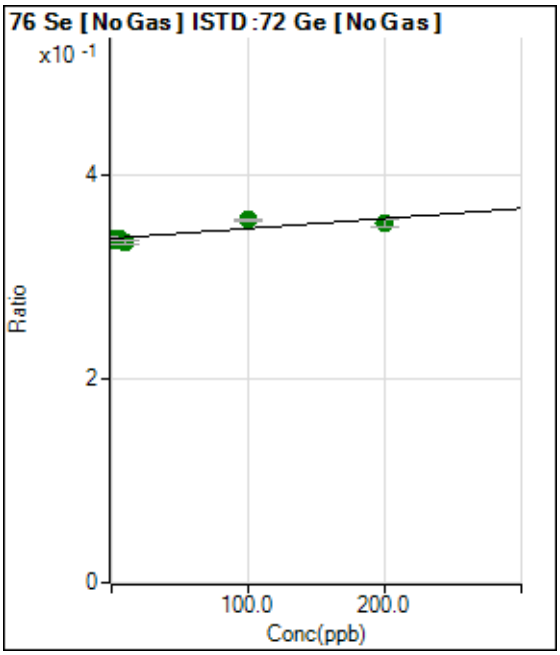
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	284.45	0.0003	P	4.7
2	☐	2.000	1.883	2773.64	0.0033	P	3.2
3	☐	5.000	4.901	6730.61	0.0081	P	1.6
4	☐	10.000	9.745	13006.31	0.0159	P	0.4
5	☐	100.000	101.511	128863.69	0.1620	P	1.6
6	☐	200.000	199.261	250987.23	0.3177	P	0.3

y = 0.0016 * x + 3.4413E-004
R = 1.0000
DL = 0.03055
BEC = 0.2161

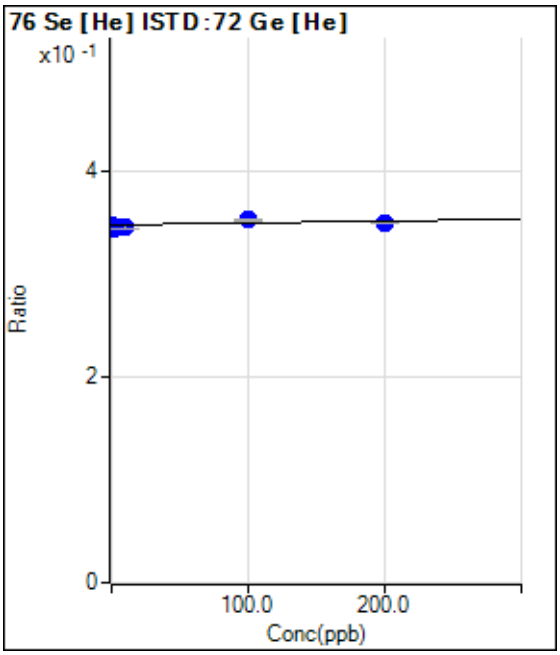
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1064498.13	0.3379	A	0.4
2	☐	2.000	-12.228	1067798.16	0.3366	A	0.9
3	☐	5.000	-4.136	1062827.20	0.3374	A	1.3
4	☐	10.000	-34.517	1050719.17	0.3345	A	1.1
5	☐	100.000	184.746	1068859.90	0.3560	A	0.8
6	☐	200.000	160.223	1053649.28	0.3536	A	2.1

y = 9.8469E-005 * x + 0.3379
R = 0.8757
DL = 44.59
BEC = 3431

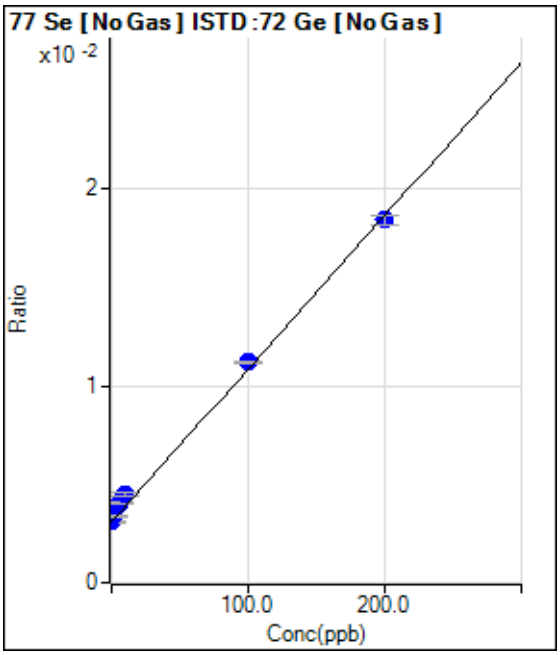
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	287803.80	0.3483	P	0.9
2	☐	2.000	-205.267	285736.04	0.3444	P	1.2
3	☐	5.000	-97.603	286161.75	0.3464	P	0.8
4	☐	10.000	-99.536	284016.83	0.3464	P	1.4
5	☐	100.000	255.634	280797.63	0.3530	P	0.8
6	☐	200.000	132.298	277094.93	0.3507	P	0.7

y = 1.8589E-005 * x + 0.3483
R = 0.7331
DL = 529.4
BEC = 1.874E+04

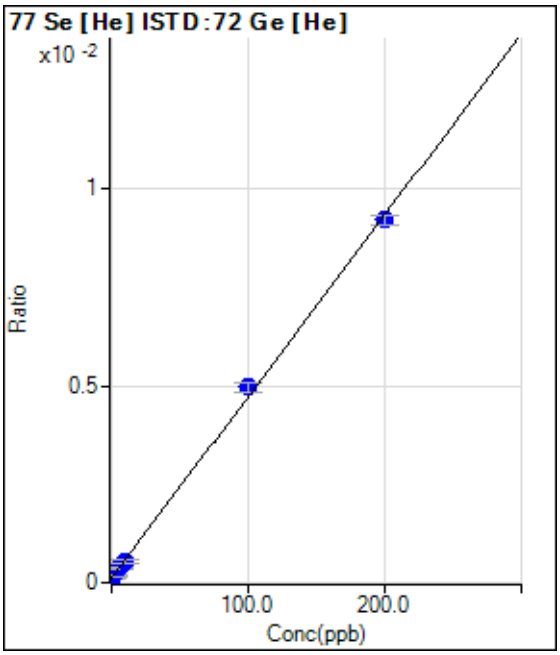
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	9720.30	0.0031	P	3.1
2	☐	2.000	4.090	10794.56	0.0034	P	3.4
3	☐	5.000	12.244	12719.57	0.0040	P	2.4
4	☐	10.000	18.047	14110.96	0.0045	P	3.1
5	☐	100.000	104.301	33638.84	0.0112	P	1.2
6	☐	200.000	197.245	54938.79	0.0184	P	2.9

y = 7.7854E-005 * x + 0.0031
R = 0.9991
DL = 3.655
BEC = 39.63

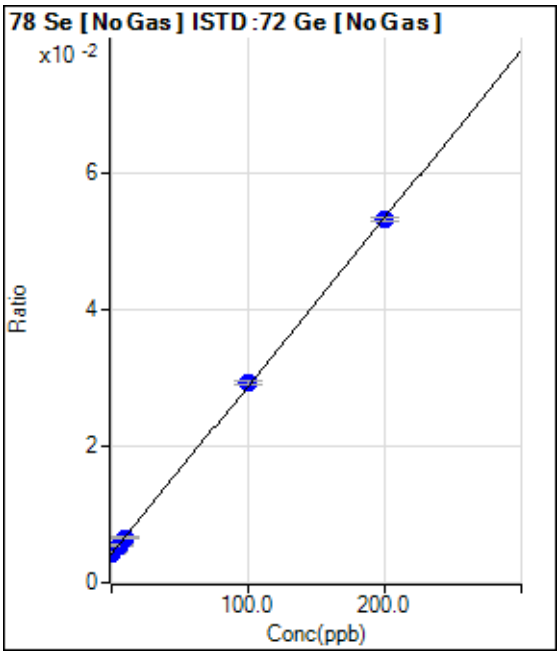
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	96.67	0.0001	P	23.6
2	☐	2.000	1.557	156.67	0.0002	P	23.5
3	☐	5.000	5.427	303.34	0.0004	P	17.7
4	☐	10.000	9.099	440.02	0.0005	P	13.2
5	☐	100.000	105.202	3950.66	0.0050	P	4.4
6	☐	200.000	197.438	7282.08	0.0092	P	2.3

y = 4.6093E-005 * x + 1.1691E-004
R = 0.9995
DL = 1.798
BEC = 2.536

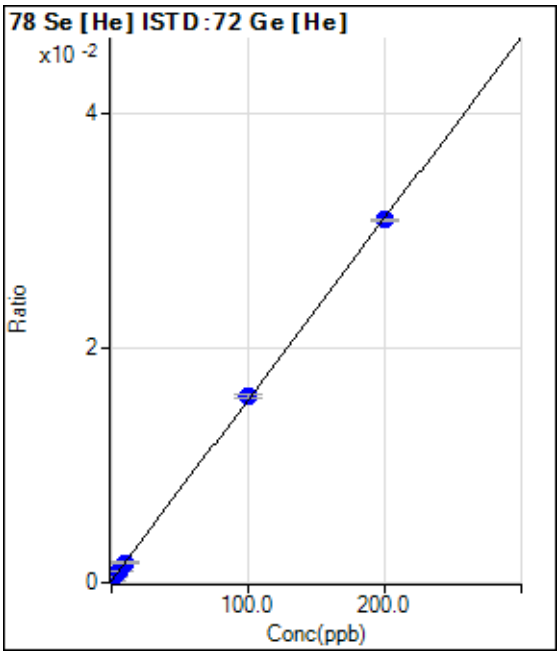
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13333.45	0.0042	P	4.0
2	☐	2.000	2.045	15015.32	0.0047	P	5.4
3	☐	5.000	5.039	17231.26	0.0055	P	3.0
4	☐	10.000	9.613	20712.94	0.0066	P	2.8
5	☐	100.000	102.316	88171.80	0.0294	P	1.8
6	☐	200.000	198.860	158217.91	0.0531	P	1.1

y = 2.4572E-004 * x + 0.0042
R = 0.9999
DL = 2.091
BEC = 17.22

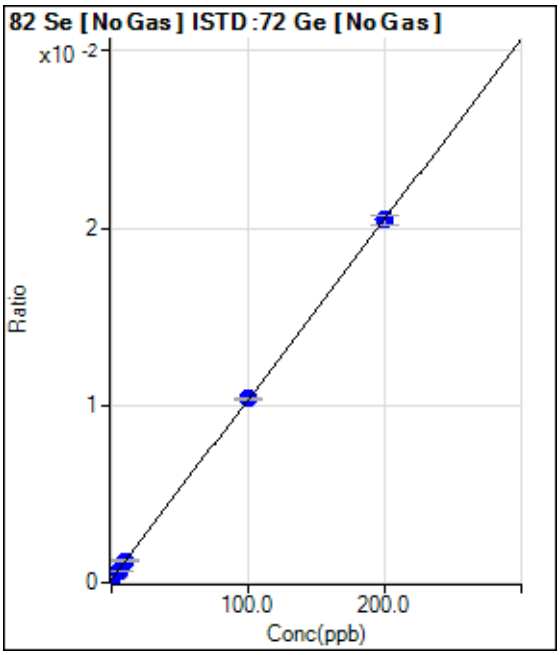
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	138.67	0.0002	P	13.2
2	☐	2.000	2.028	398.68	0.0005	P	10.9
3	☐	5.000	5.209	803.36	0.0010	P	5.4
4	☐	10.000	9.847	1384.74	0.0017	P	4.2
5	☐	100.000	101.673	12629.27	0.0159	P	2.4
6	☐	200.000	199.166	24442.77	0.0309	P	0.8

y = 1.5450E-004 * x + 1.6781E-004
R = 0.9999
DL = 0.4308
BEC = 1.086

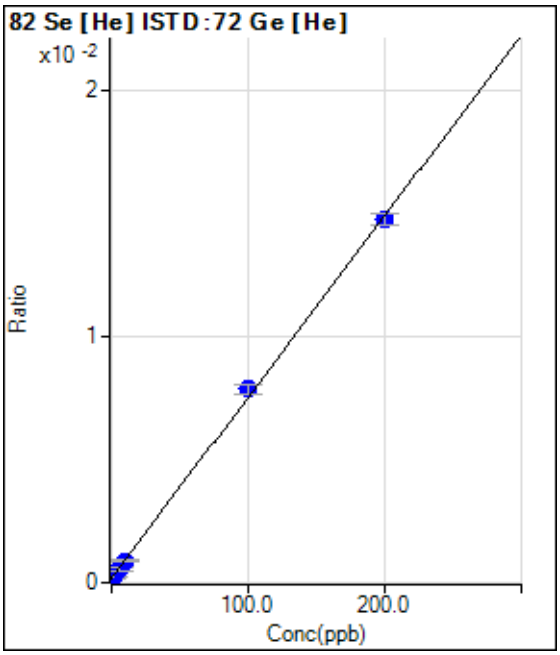
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	563.36	0.0002	P	8.0
2	☐	2.000	2.080	1236.75	0.0004	P	9.9
3	☐	5.000	4.798	2096.87	0.0007	P	7.0
4	☐	10.000	10.283	3840.62	0.0012	P	4.0
5	☐	100.000	100.520	31173.20	0.0104	P	1.5
6	☐	200.000	199.730	60948.52	0.0205	P	2.8

y = 1.0153E-004 * x + 1.7878E-004
R = 1.0000
DL = 0.4249
BEC = 1.761

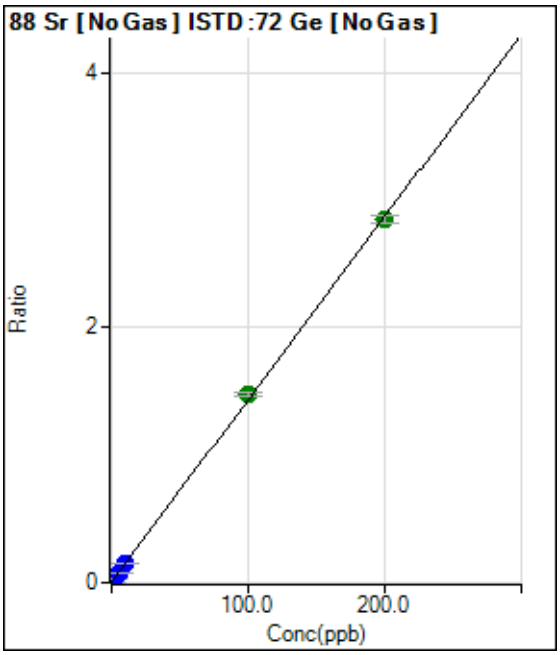
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	153.34	0.0002	P	14.1
2	☐	2.000	0.863	206.68	0.0002	P	4.0
3	☐	5.000	5.264	473.35	0.0006	P	28.9
4	☐	10.000	9.349	716.70	0.0009	P	8.7
5	☐	100.000	104.288	6254.87	0.0079	P	4.5
6	☐	200.000	197.893	11658.58	0.0148	P	3.1

y = 7.3625E-005 * x + 1.8565E-004
R = 0.9996
DL = 1.07
BEC = 2.522

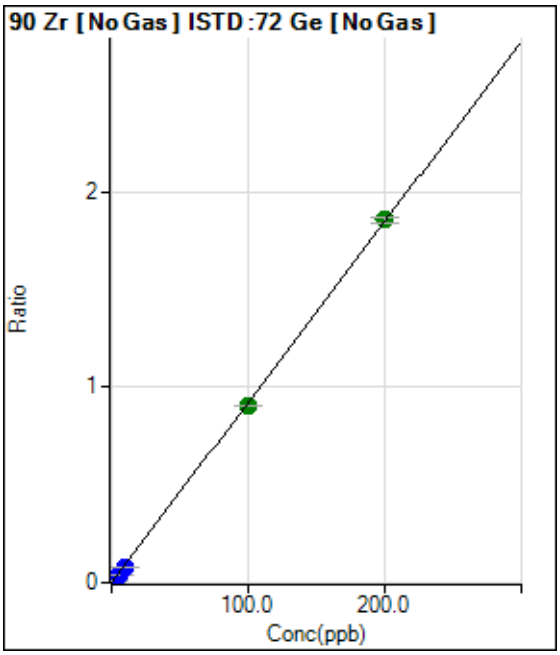
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	14698.31	0.0047	P	4.2
2	☐	2.000	1.938	102812.80	0.0324	P	1.2
3	☐	5.000	4.950	237991.03	0.0756	P	1.5
4	☐	10.000	9.967	463033.30	0.1474	P	1.3
5	☐	100.000	103.171	4449736.81	1.4821	A	2.2
6	☐	200.000	198.418	8480236.33	2.8461	A	2.0

y = 0.0143 * x + 0.0047
R = 0.9998
DL = 0.04071
BEC = 0.3258

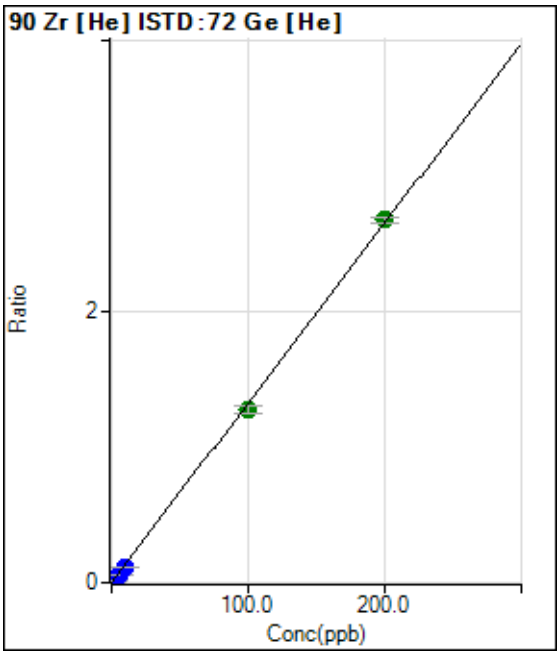
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2793.68	0.0009	P	1.4
2	☐	2.000	1.498	46681.91	0.0147	P	1.7
3	☐	5.000	4.080	121468.55	0.0386	P	0.7
4	☐	10.000	8.520	249973.82	0.0796	P	1.3
5	☐	100.000	97.905	2717084.23	0.9050	A	0.3
6	☐	200.000	201.149	5537934.92	1.8585	A	1.3

y = 0.0092 * x + 8.8660E-004
R = 0.9999
DL = 0.004029
BEC = 0.096

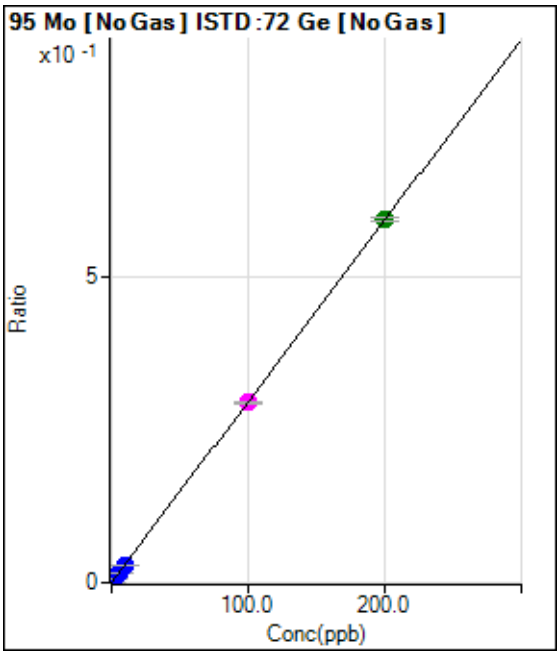
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1380.10	0.0017	P	7.4
2	☐	2.000	1.460	17398.25	0.0210	P	1.8
3	☐	5.000	4.031	45417.53	0.0550	P	1.5
4	☐	10.000	8.575	94344.47	0.1151	P	2.1
5	☐	100.000	96.262	1013945.85	1.2748	A	4.0
6	☐	200.000	201.970	2111635.90	2.6729	A	1.9

y = 0.0132 * x + 0.0017
R = 0.9998
DL = 0.02811
BEC = 0.1263

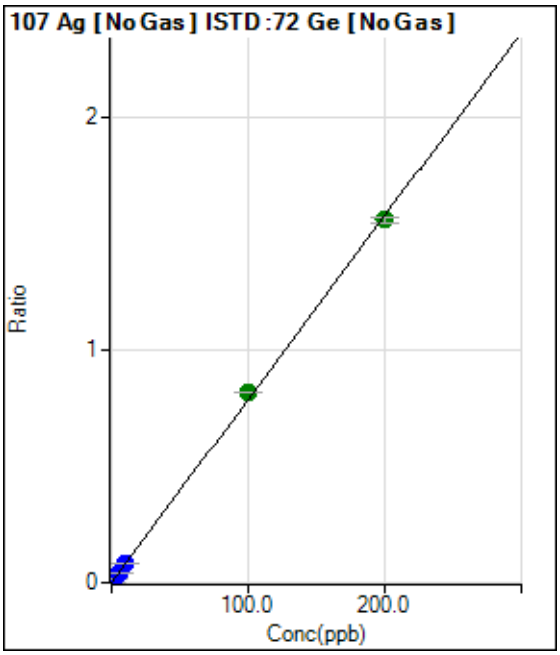
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	704.21	0.0002	P	96.6
2	☐	2.000	1.827	17889.02	0.0056	P	1.2
3	☐	5.000	4.814	45648.37	0.0145	P	2.5
4	☐	10.000	9.496	89127.28	0.0284	P	2.1
5	☐	100.000	99.393	885214.78	0.2949	M	0.7
6	☐	200.000	200.335	1770488.15	0.5941	A	0.9

y = 0.0030 * x + 2.2252E-004
R = 1.0000
DL = 0.2175
BEC = 0.07506

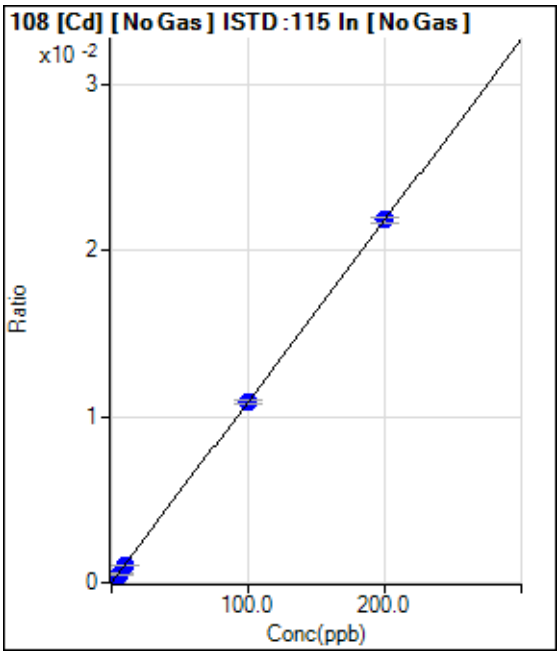
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	390.01	0.0001	P	18.6
2	☐	2.000	1.984	50014.67	0.0158	P	0.7
3	☐	5.000	5.078	126504.02	0.0402	P	1.5
4	☐	10.000	10.204	253169.77	0.0806	P	1.4
5	☐	100.000	104.123	2465429.70	0.8212	A	0.4
6	☐	200.000	197.927	4651088.47	1.5609	A	1.6

y = 0.0079 * x + 1.2389E-004
R = 0.9997
DL = 0.008746
BEC = 0.01571

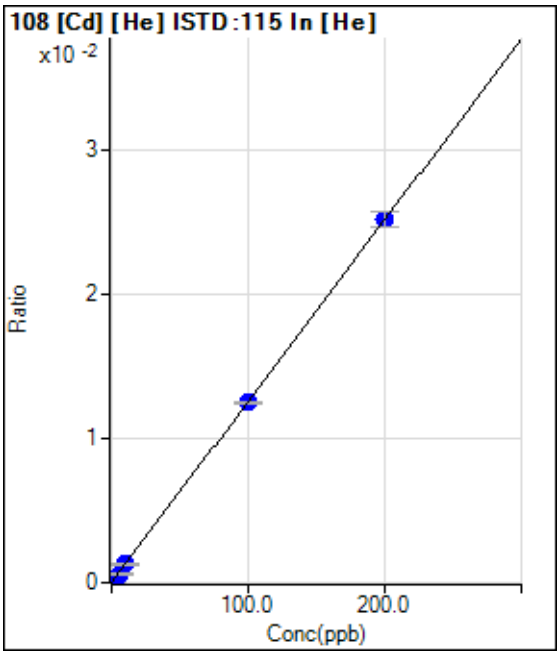
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13.33	0.0000	P	86.6
2	☐	2.000	1.919	793.37	0.0002	P	11.1
3	☐	5.000	4.654	1930.18	0.0005	P	8.2
4	☐	10.000	9.852	3990.69	0.0011	P	2.3
5	☐	100.000	99.452	39328.92	0.0108	P	1.9
6	☐	200.000	200.291	77017.24	0.0218	P	1.7

y = 1.0890E-004 * x + 3.6566E-006
R = 1.0000
DL = 0.08725
BEC = 0.03358

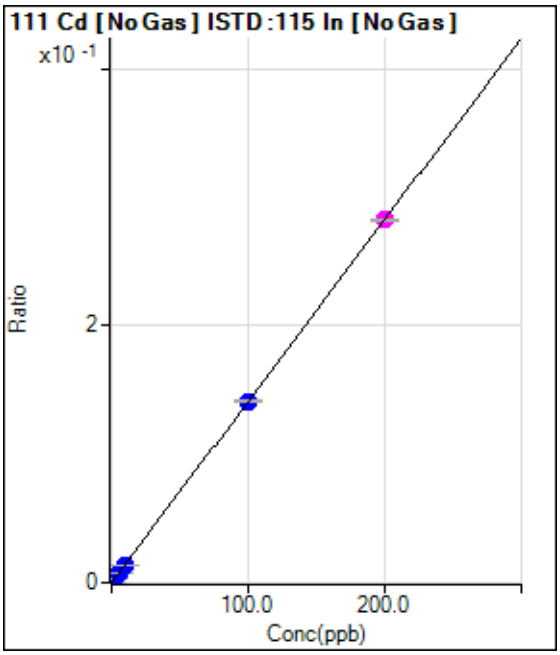
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	30.00	0.0000	P	68.2
2	☐	2.000	1.724	353.34	0.0002	P	20.3
3	☐	5.000	4.601	866.71	0.0006	P	5.5
4	☐	10.000	10.079	1876.84	0.0013	P	12.5
5	☐	100.000	99.607	17398.41	0.0126	P	1.0
6	☐	200.000	200.205	34248.11	0.0252	P	4.3

y = 1.2580E-004 * x + 2.1123E-005
R = 1.0000
DL = 0.3436
BEC = 0.1679

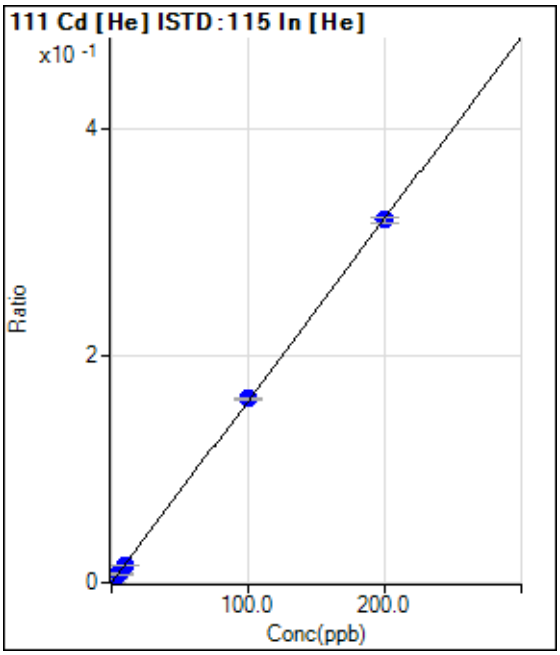
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13.33	0.0000	P	114.4
2	☐	2.000	1.951	10274.17	0.0028	P	5.2
3	☐	5.000	4.982	26577.06	0.0070	P	0.7
4	☐	10.000	10.015	52374.12	0.0141	P	0.7
5	☐	100.000	99.955	511947.13	0.1410	P	1.2
6	☐	200.000	200.023	996340.12	0.2822	M	0.5

y = 0.0014 * x + 3.6271E-006
R = 1.0000
DL = 0.008822
BEC = 0.002571

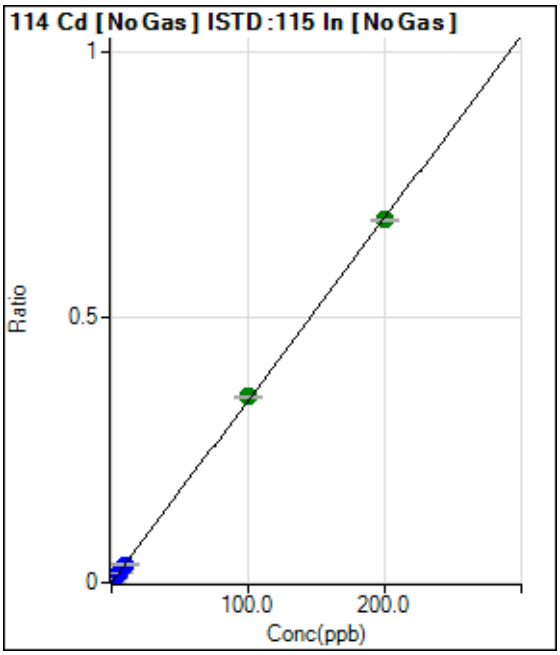
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	-22.19	0.0000	P	-85.7
2	☐	2.000	1.829	4341.78	0.0029	P	6.7
3	☐	5.000	4.806	11105.72	0.0077	P	7.3
4	☐	10.000	9.763	22776.47	0.0156	P	2.4
5	☐	100.000	101.140	224780.38	0.1622	P	1.7
6	☐	200.000	199.448	434488.71	0.3198	P	1.8

y = 0.0016 * x - 1.5663E-005
R = 1.0000
DL = 0.02512
BEC = -0.009768

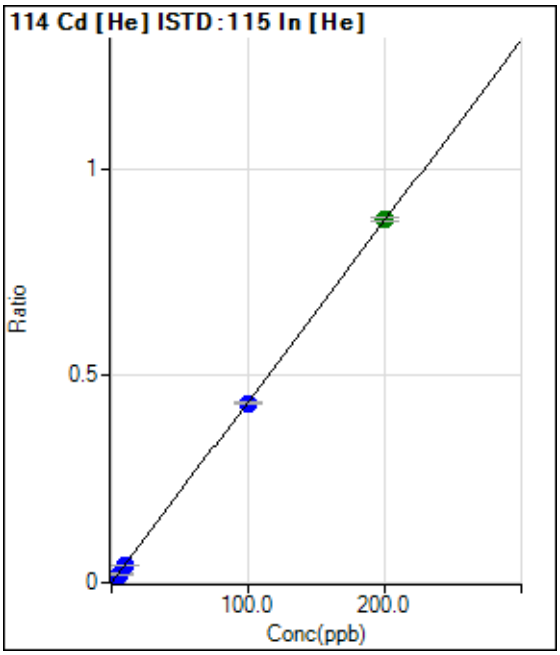
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	103.33	0.0000	P	39.3
2	☐	2.000	1.922	24706.85	0.0066	P	3.3
3	☐	5.000	4.834	62883.40	0.0166	P	1.9
4	☐	10.000	9.878	125894.60	0.0340	P	2.8
5	☐	100.000	101.993	1272756.49	0.3505	A	0.6
6	☐	200.000	199.015	2414967.47	0.6840	A	0.5

y = 0.0034 * x + 2.8329E-005
R = 0.9999
DL = 0.009707
BEC = 0.008243

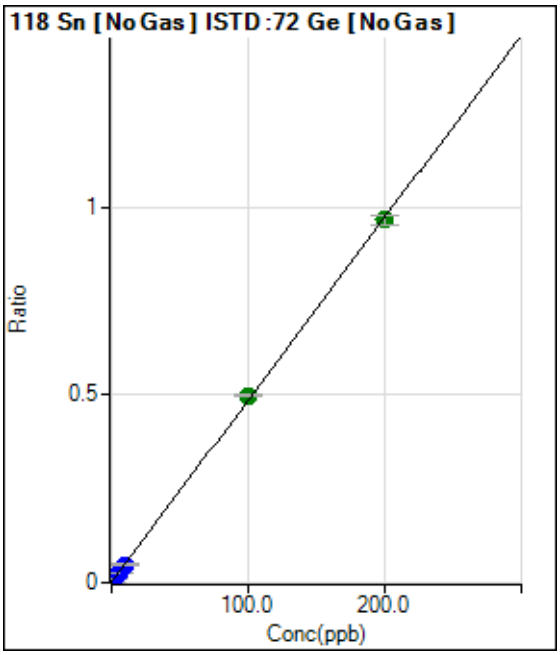
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	43.33	0.0000	P	37.3
2	☐	2.000	1.804	11778.77	0.0079	P	2.6
3	☐	5.000	4.721	29817.54	0.0206	P	3.5
4	☐	10.000	9.635	61295.90	0.0421	P	1.8
5	☐	100.000	98.922	598631.96	0.4319	P	1.0
6	☐	200.000	200.566	1189578.08	0.8756	A	1.1

y = 0.0044 * x + 3.0399E-005
R = 1.0000
DL = 0.007789
BEC = 0.006964

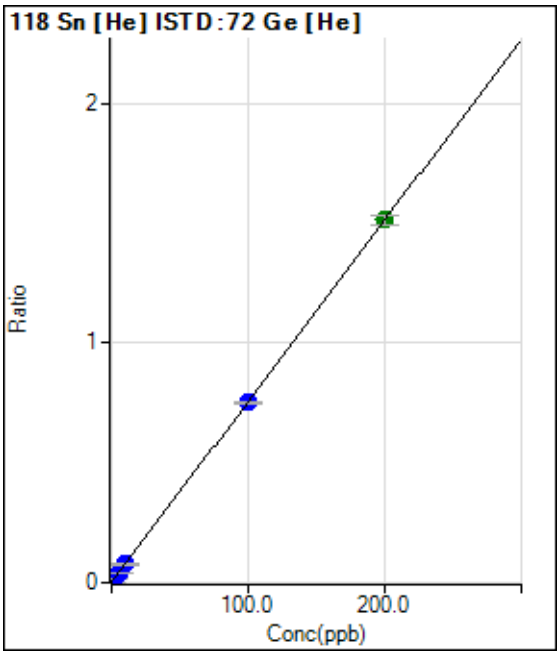
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2473.61	0.0008	P	5.2
2	☐	2.000	1.863	31221.03	0.0098	P	2.4
3	☐	5.000	4.876	77149.49	0.0245	P	1.2
4	☐	10.000	9.811	152301.98	0.0485	P	1.7
5	☐	100.000	102.369	1496584.77	0.4985	A	0.7
6	☐	200.000	198.829	2882372.77	0.9675	A	2.7

y = 0.0049 * x + 7.8526E-004
R = 0.9999
DL = 0.02528
BEC = 0.1615

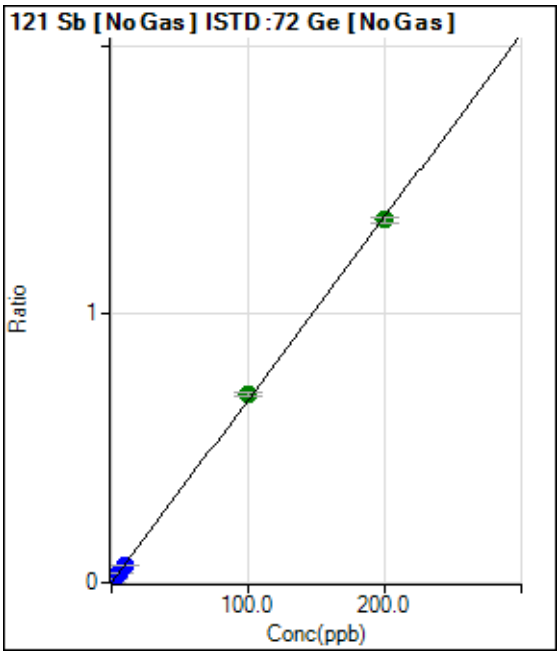
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1103.40	0.0013	P	15.0
2	☐	2.000	2.015	13746.52	0.0166	P	6.4
3	☐	5.000	4.920	31812.13	0.0385	P	1.2
4	☐	10.000	9.936	62652.85	0.0764	P	2.0
5	☐	100.000	99.413	598635.98	0.7526	P	1.2
6	☐	200.000	200.298	1196695.43	1.5150	A	3.0

y = 0.0076 * x + 0.0013
R = 1.0000
DL = 0.07951
BEC = 0.1767

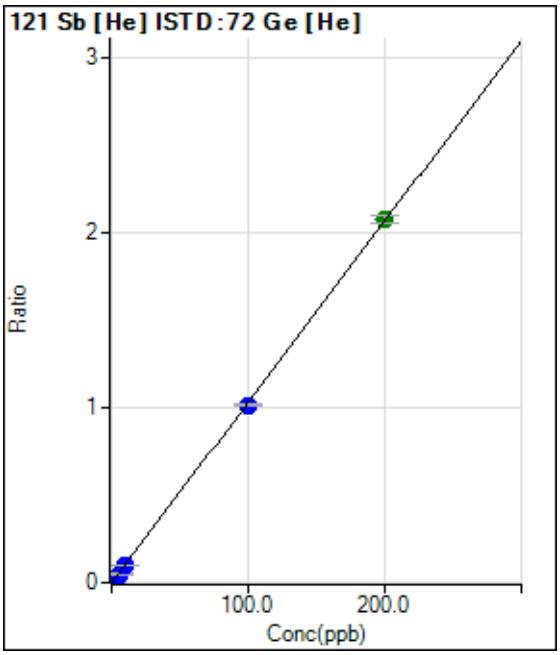
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	420.01	0.0001	P	12.6
2	☐	2.000	1.916	41786.76	0.0132	P	2.0
3	☐	5.000	4.825	103868.65	0.0330	P	1.6
4	☐	10.000	9.613	205962.89	0.0656	P	2.4
5	☐	100.000	103.311	2111312.41	0.7033	A	1.7
6	☐	200.000	198.369	4023480.46	1.3504	A	1.9

y = 0.0068 * x + 1.3330E-004
R = 0.9998
DL = 0.007393
BEC = 0.01958

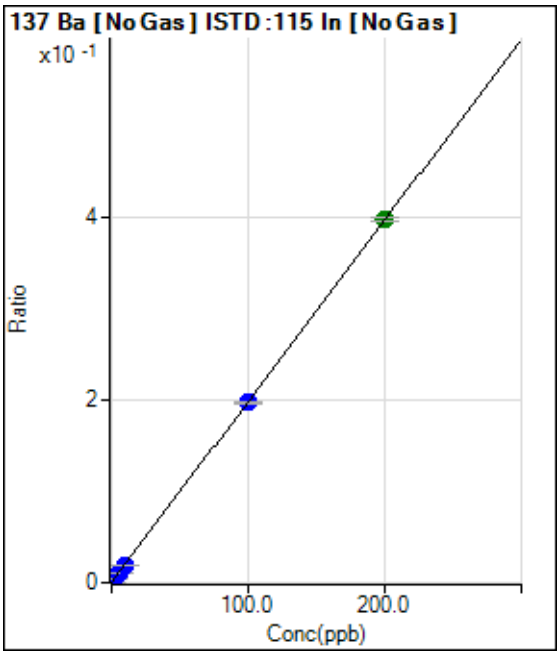
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	193.34	0.0002	P	44.2
2	☐	2.000	1.871	16186.93	0.0195	P	5.5
3	☐	5.000	4.728	40435.97	0.0489	P	2.0
4	☐	10.000	9.643	81650.15	0.0996	P	2.7
5	☐	100.000	98.377	806422.26	1.0138	P	1.9
6	☐	200.000	200.838	1635095.13	2.0695	A	2.0

y = 0.0103 * x + 2.3398E-004
R = 1.0000
DL = 0.0301
BEC = 0.02271

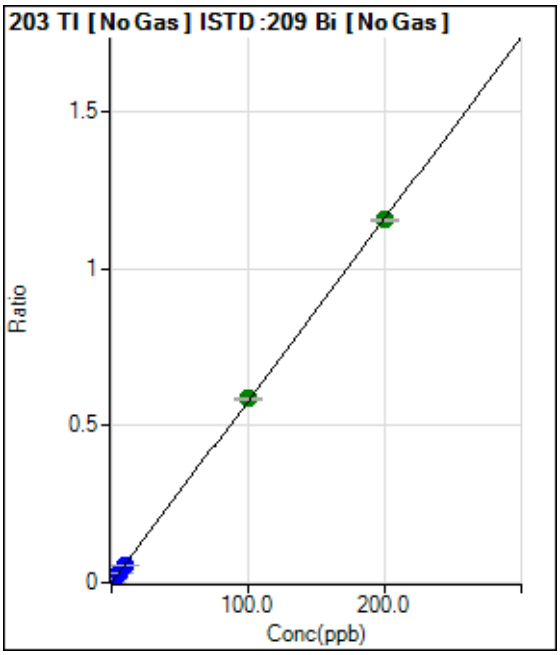
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1183.41	0.0003	P	8.7
2	☐	2.000	2.076	16494.10	0.0044	P	4.6
3	☐	5.000	4.864	37571.51	0.0099	P	2.2
4	☐	10.000	9.781	72877.63	0.0197	P	2.5
5	☐	100.000	99.409	714873.16	0.1969	P	1.3
6	☐	200.000	200.309	1399741.54	0.3964	A	1.1

y = 0.0020 * x + 3.2395E-004
R = 1.0000
DL = 0.04257
BEC = 0.1638

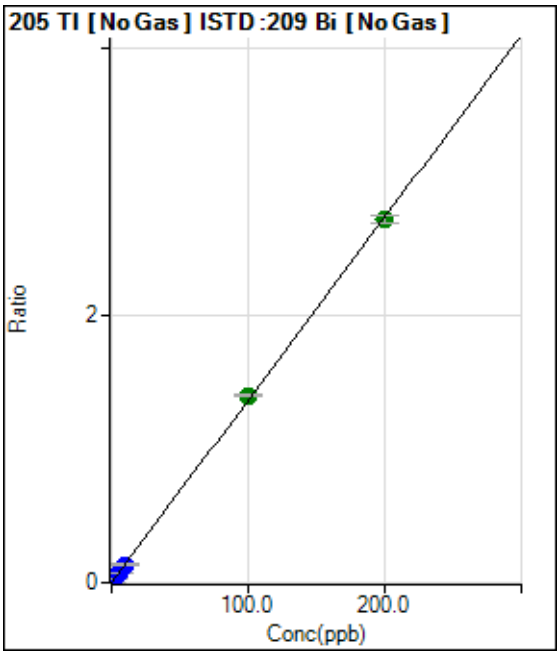
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	244.45	0.0001	P	19.9
2	☐	2.000	1.875	33575.05	0.0110	P	0.6
3	☐	5.000	4.901	86751.31	0.0285	P	1.7
4	☐	10.000	9.808	168411.71	0.0570	P	2.3
5	☐	100.000	101.114	1701544.65	0.5865	A	1.0
6	☐	200.000	199.456	3257925.08	1.1569	A	0.2

y = 0.0058 * x + 8.1606E-005
R = 1.0000
DL = 0.008408
BEC = 0.01407

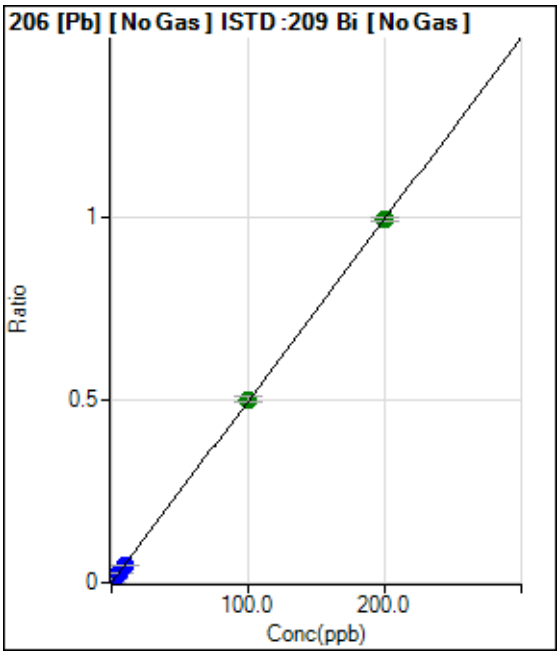
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	645.57	0.0002	P	10.2
2	☐	2.000	1.911	80791.98	0.0264	P	0.5
3	☐	5.000	4.952	206848.65	0.0680	P	2.4
4	☐	10.000	9.979	404265.70	0.1367	P	1.7
5	☐	100.000	102.546	4070120.67	1.4030	A	1.2
6	☐	200.000	198.730	7655609.70	2.7188	A	2.0

y = 0.0137 * x + 2.1551E-004
R = 0.9999
DL = 0.004831
BEC = 0.01575

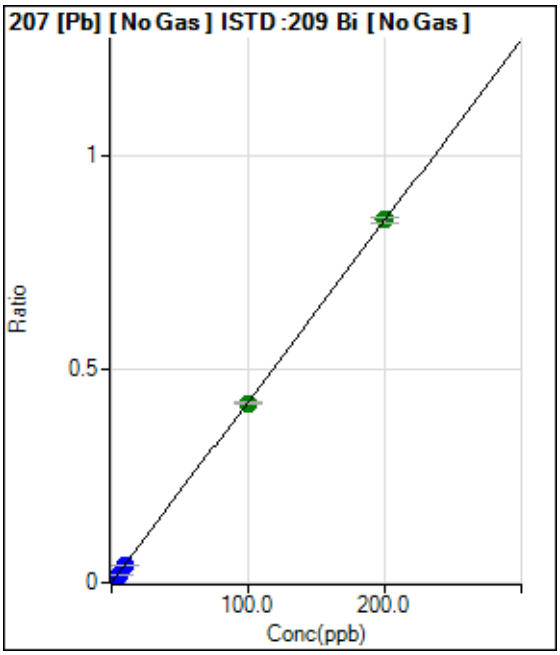
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	316.68	0.0001	P	17.0
2	☐	2.000	1.876	28837.02	0.0094	P	1.6
3	☐	5.000	4.820	73093.95	0.0240	P	0.4
4	☐	10.000	9.664	142074.39	0.0480	P	0.4
5	☐	100.000	100.766	1450257.84	0.5000	A	3.0
6	☐	200.000	199.640	2789056.11	0.9904	A	1.0

y = 0.0050 * x + 1.0556E-004
R = 1.0000
DL = 0.01083
BEC = 0.02128

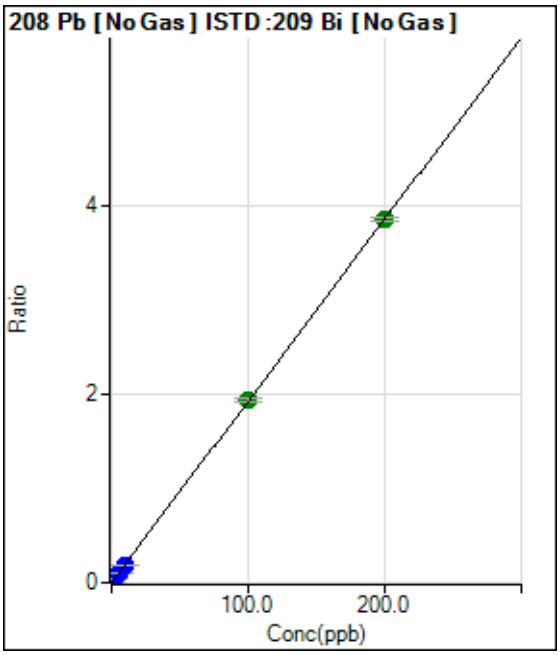
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	283.34	0.0001	P	7.5
2	☐	2.000	1.848	24354.13	0.0079	P	2.5
3	☐	5.000	4.719	61300.77	0.0201	P	1.6
4	☐	10.000	9.646	121444.83	0.0411	P	0.5
5	☐	100.000	99.150	1222015.19	0.4212	A	1.2
6	☐	200.000	200.451	2397802.67	0.8515	A	1.9

y = 0.0042 * x + 9.4562E-005
R = 1.0000
DL = 0.004985
BEC = 0.02226

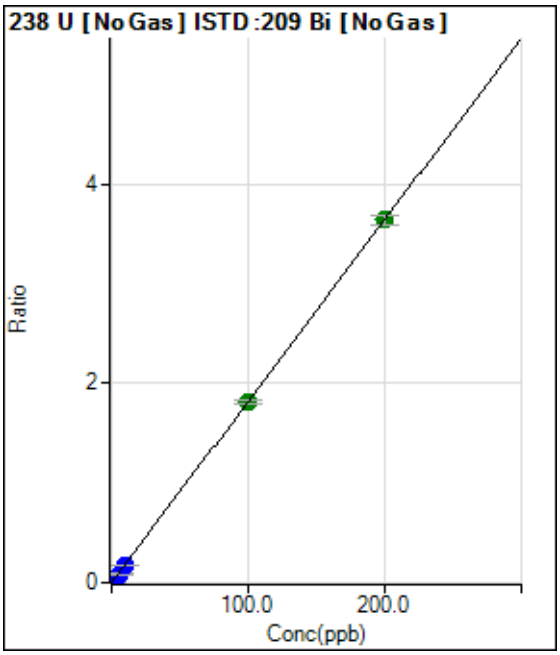
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1470.07	0.0005	P	15.7
2	☐	2.000	1.880	112683.55	0.0368	P	0.9
3	☐	5.000	4.836	285518.18	0.0938	P	1.4
4	☐	10.000	9.767	558786.35	0.1890	P	0.2
5	☐	100.000	100.478	5625730.18	1.9394	A	2.3
6	☐	200.000	199.778	10857122.86	3.8555	A	0.9

y = 0.0193 * x + 4.9017E-004
R = 1.0000
DL = 0.01193
BEC = 0.0254

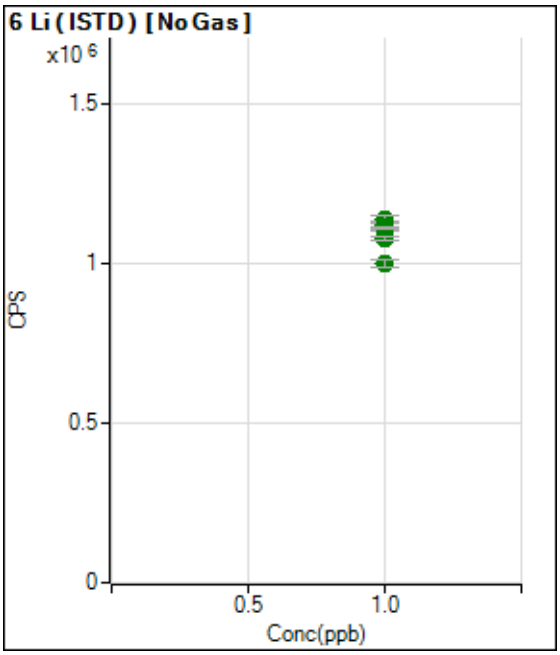
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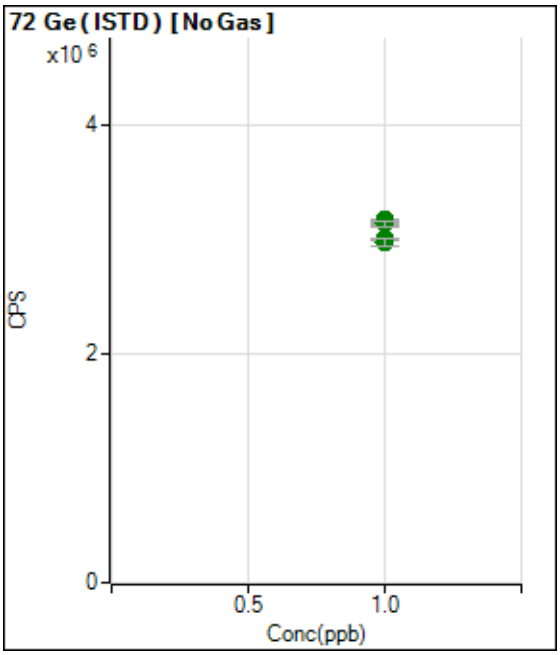
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1	☐	0.000	0.000	413.35	0.0001	P	7.4
2	☐	2.000	1.870	104695.52	0.0342	P	1.8
3	☐	5.000	4.763	264256.25	0.0868	P	0.4
4	☐	10.000	9.571	515480.84	0.1743	P	0.6
5	☐	100.000	99.949	5277046.70	1.8190	A	1.9
6	☐	200.000	200.054	10250937.14	3.6408	A	2.7

y = 0.0182 * x + 1.3797E-004
R = 1.0000
DL = 0.001681
BEC = 0.007581

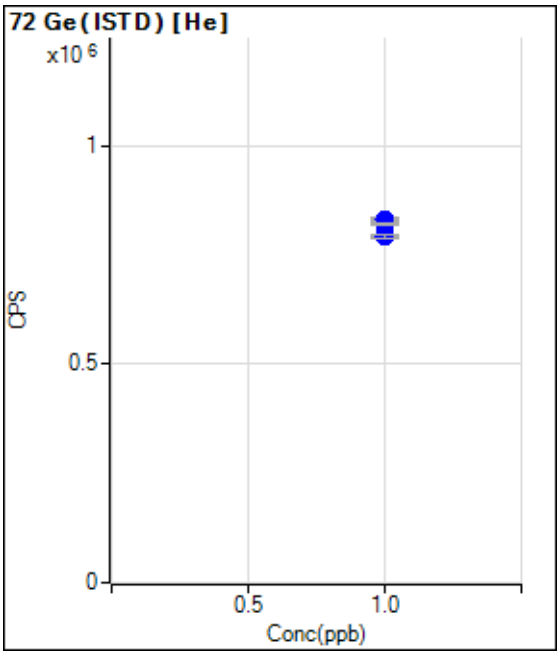
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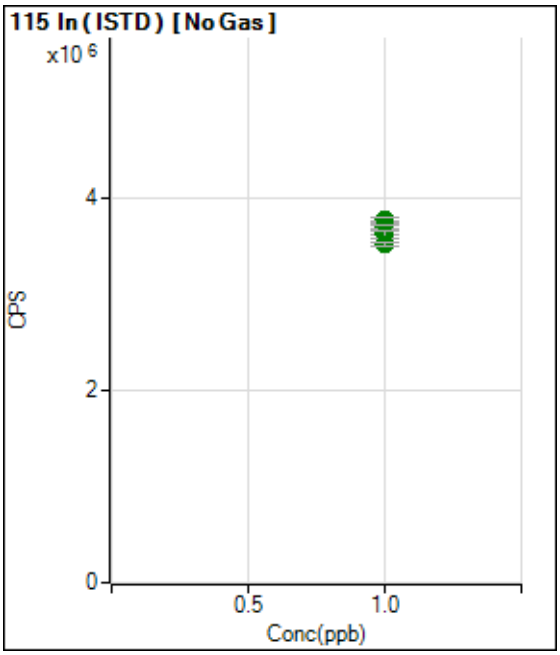
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1	☐	1.000		1117325.06		A	1.9
2	☐	1.000		1134443.91		A	2.1
3	☐	1.000		1102286.10		A	0.4
4	☐	1.000		1111067.80		A	0.4
5	☐	1.000		1077248.20		A	1.1
6	☐	1.000		996283.51		A	2.4



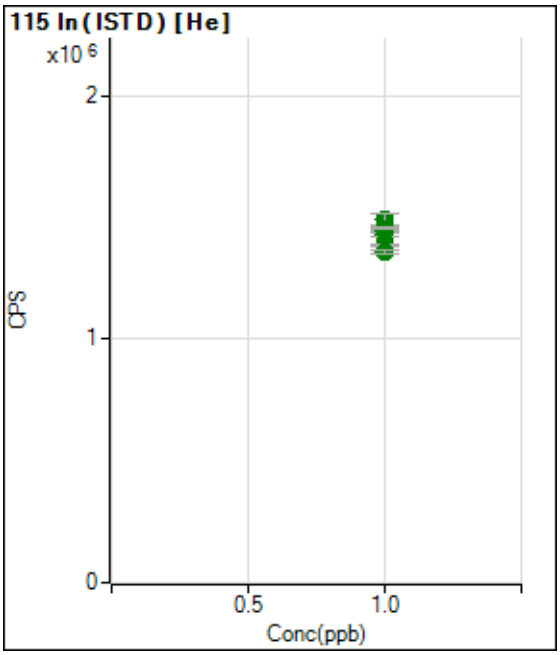
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1	☐	1.000		3150825.16		A	0.7
2	☐	1.000		3171789.43		A	0.7
3	☐	1.000		3149908.18		A	1.1
4	☐	1.000		3141881.93		A	1.6
5	☐	1.000		3002159.02		A	1.0
6	☐	1.000		2980413.91		A	2.4



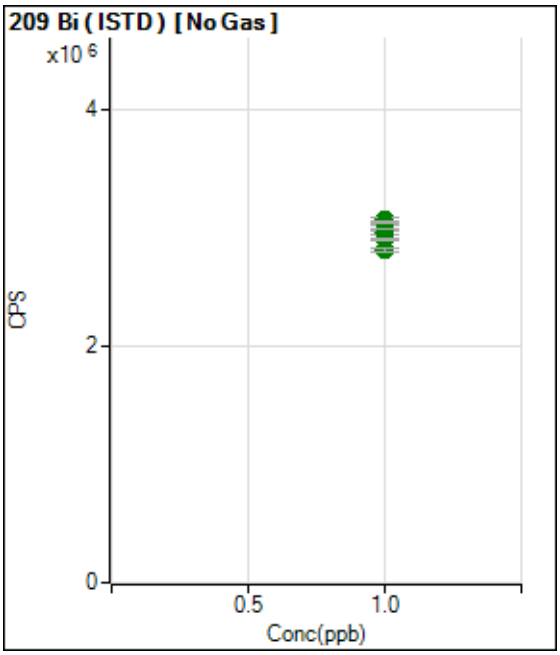
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		826424.26		P	0.6
2	☐	1.000		829573.29		P	1.6
3	☐	1.000		826007.46		P	0.6
4	☐	1.000		819915.17		P	0.7
5	☐	1.000		795456.91		P	0.6
6	☐	1.000		790069.05		P	1.0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		3651641.88		A	1.0
2	☐	1.000		3726283.27		A	2.1
3	☐	1.000		3779375.16		A	1.3
4	☐	1.000		3706325.95		A	1.2
5	☐	1.000		3631087.96		A	2.0
6	☐	1.000		3530794.85		A	1.0



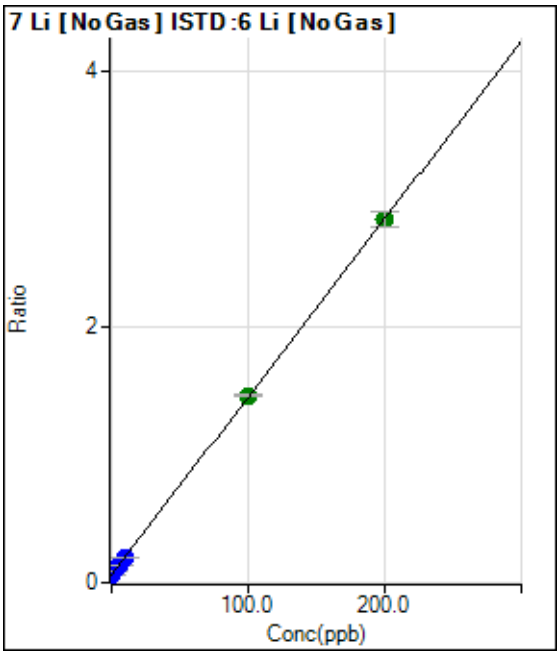
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1	☐	1.000		1432382.71		A	1.9
2	☐	1.000		1490030.26		A	3.1
3	☐	1.000		1444628.58		A	1.4
4	☐	1.000		1456210.88		A	0.3
5	☐	1.000		1386154.00		A	0.7
6	☐	1.000		1358682.45		A	0.8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2996726.83		A	1.2
2	☐	1.000		3064685.16		A	1.2
3	☐	1.000		3043781.72		A	0.6
4	☐	1.000		2957312.35		A	1.6
5	☐	1.000		2901084.75		A	0.7
6	☐	1.000		2816213.92		A	1.2

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Analysis File: 061224A.batch.bin
DA Date-Time: 6/12/2024 9:46:07 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

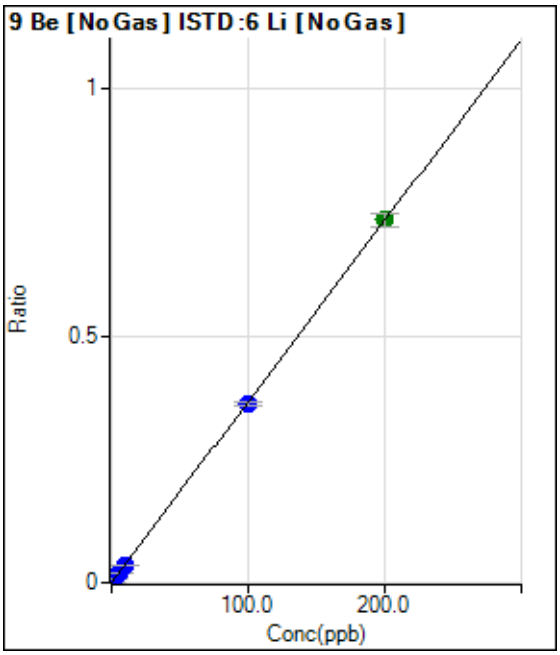
Level	Standard Data File	Sample Name	Acq. Date-Time
1	101CALB.d	CAL BLK	6/12/2024 2:28:34 PM
2	102CALS.d	2/10/200	6/12/2024 2:30:31 PM
3	103CALS.d	5/25/500	6/12/2024 2:32:27 PM
4	104CALS.d	10/50/100	6/12/2024 2:34:23 PM
5	105CALS.d	100/500/10K	6/12/2024 2:36:18 PM
6	106CALS.d	200/1000/20K	6/12/2024 2:38:05 PM



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	88142.34	0.0621	P	2.2
2	☐	2.000	2.024	124404.71	0.0903	P	1.6
3	☐	5.000	4.831	179051.33	0.1294	P	1.4
4	☐	10.000	9.349	269408.17	0.1923	P	1.3
5	☐	100.000	100.959	1941755.59	1.4681	A	0.5
6	☐	200.000	199.557	3595757.13	2.8413	A	4.3

y = 0.0139 * x + 0.0621
R = 1.0000
DL = 0.2952
BEC = 4.459

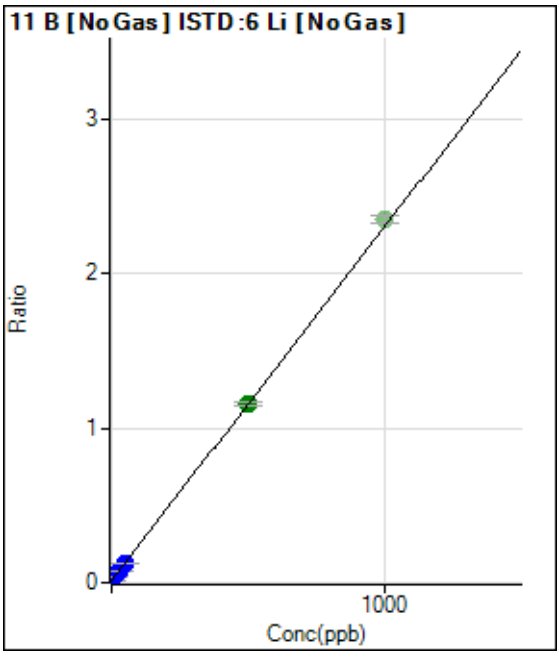
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	20.00	0.0000	P	65.1
2	☐	2.000	1.933	9788.47	0.0071	P	2.6
3	☐	5.000	4.878	24778.56	0.0179	P	0.2
4	☐	10.000	9.399	48316.12	0.0345	P	2.4
5	☐	100.000	99.096	480637.02	0.3635	P	2.3
6	☐	200.000	200.486	930717.56	0.7353	A	3.8

y = 0.0037 * x + 1.3929E-005
R = 1.0000
DL = 0.007418
BEC = 0.003798

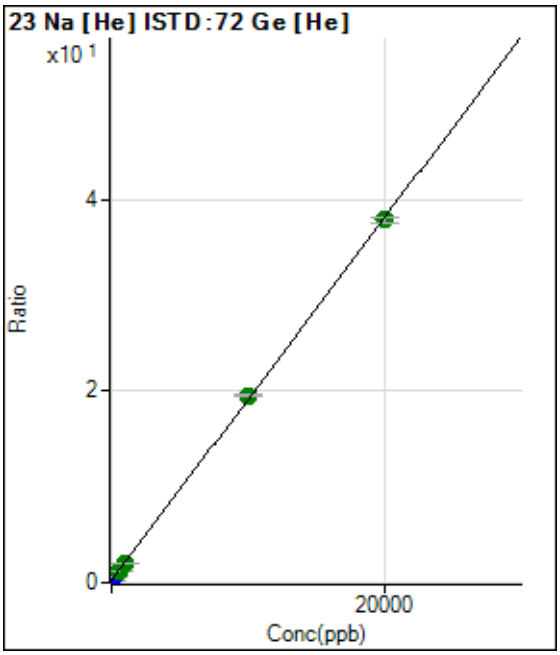
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	18188.56	0.0128	P	4.0
2	☐	10.000	9.752	48443.30	0.0352	P	3.1
3	☐	25.000	24.679	95988.98	0.0694	P	2.0
4	☐	50.000	47.866	171597.51	0.1225	P	1.8
5	☐	500.000	500.234	1532600.71	1.1590	A	2.3
6	☑	1000.000		2976510.27	2.3506	A	2.0

y = 0.0023 * x + 0.0128
R = 1.0000
DL = 0.67
BEC = 5.594

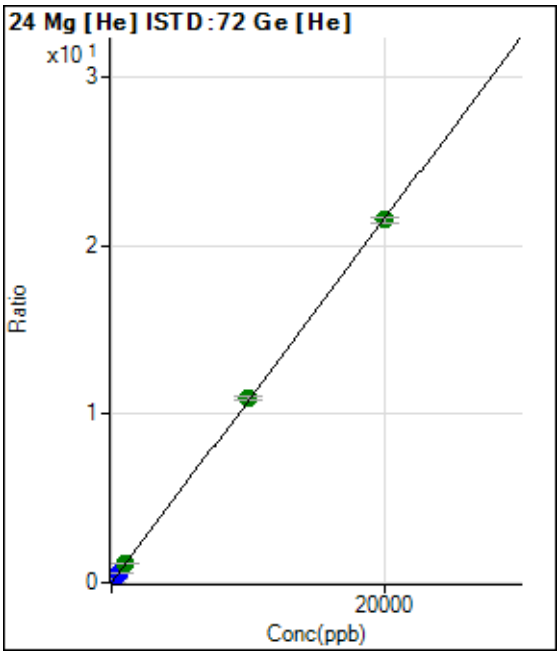
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	222890.79	0.2287	P	1.4
2	☐	200.000	211.393	603718.00	0.6286	P	1.0
3	☐	500.000	511.974	1133727.82	1.1973	A	1.1
4	☐	1000.000	976.140	1989095.54	2.0756	A	2.3
5	☐	10000.00	10219.67	17930037.23	19.5647	A	1.1
6	☐	20000.00	19890.94	33681664.50	37.8632	A	1.8

y = 0.0019 * x + 0.2287
R = 0.9999
DL = 4.966
BEC = 120.9

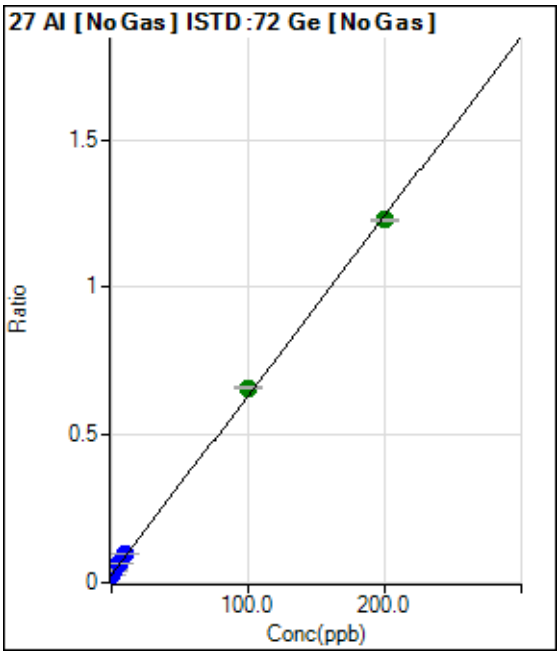
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2683.64	0.0028	P	3.7
2	☐	200.000	211.282	221836.61	0.2310	P	0.4
3	☐	500.000	527.146	541652.79	0.5721	P	1.7
4	☐	1000.000	1022.238	1060713.27	1.1069	A	1.6
5	☐	10000.00	10118.64	10017935.06	10.9323	A	1.9
6	☐	20000.00	19938.77	19160656.38	21.5395	A	1.7

y = 0.0011 * x + 0.0028
R = 1.0000
DL = 0.2862
BEC = 2.55

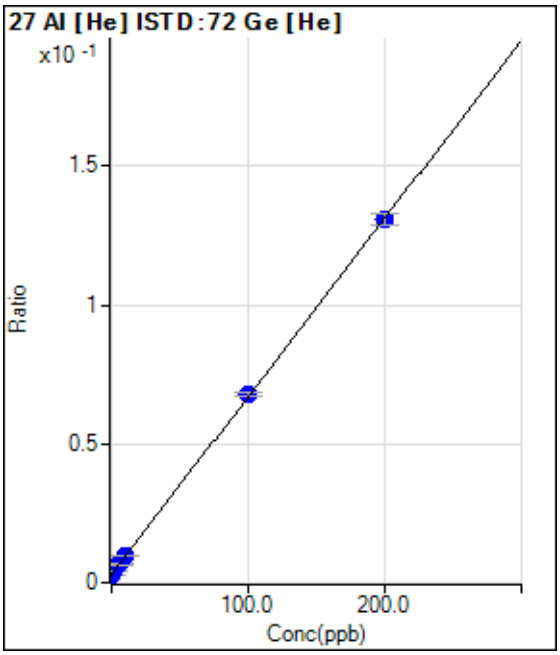
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	94625.20	0.0270	P	3.0
2	☐	2.000	2.491	148251.60	0.0421	P	1.1
3	☐	5.000	5.912	216807.79	0.0629	P	0.4
4	☐	10.000	11.660	337091.00	0.0978	P	4.1
5	☐	100.000	103.953	2192691.58	0.6578	A	1.1
6	☐	200.000	197.913	3970181.40	1.2279	A	0.5

y = 0.0061 * x + 0.0270
R = 0.9997
DL = 0.3982
BEC = 4.454

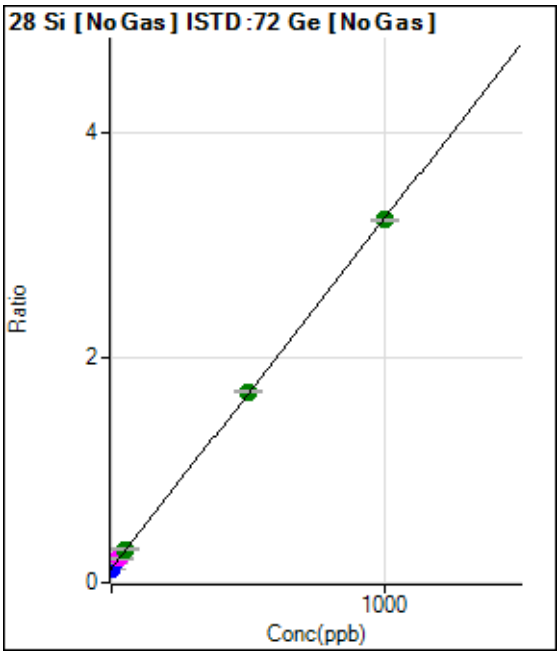
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2873.69	0.0029	P	7.7
2	☐	2.000	2.131	4144.03	0.0043	P	3.1
3	☐	5.000	5.749	6274.88	0.0066	P	5.1
4	☐	10.000	10.377	9196.51	0.0096	P	2.8
5	☐	100.000	101.303	62175.86	0.0679	P	2.1
6	☐	200.000	199.309	116220.02	0.1306	P	3.1

y = 6.4069E-004 * x + 0.0029
R = 1.0000
DL = 1.057
BEC = 4.602

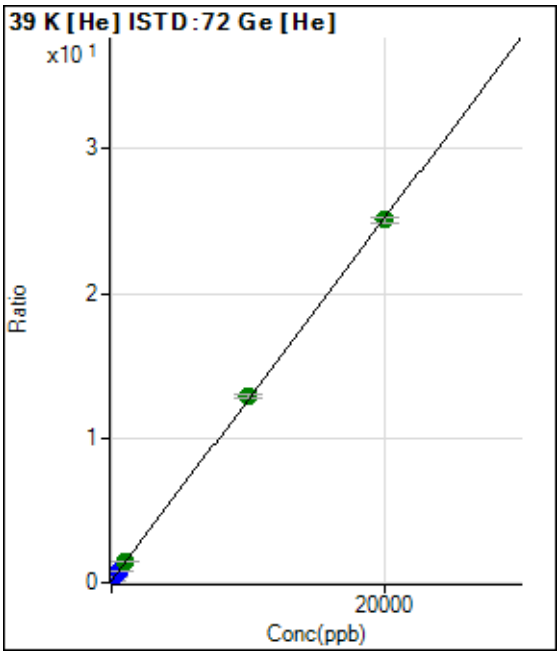
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	443088.25	0.1266	P	2.6
2	☐	10.000	13.587	593842.05	0.1688	P	6.2
3	☐	25.000	28.101	737613.58	0.2140	M	2.1
4	☐	50.000	55.272	1029168.50	0.2985	A	3.6
5	☐	500.000	506.246	5671709.92	1.7017	A	2.0
6	☐	1000.000	996.500	10433068.38	3.2270	A	0.7

y = 0.0031 * x + 0.1266
R = 1.0000
DL = 3.224
BEC = 40.67

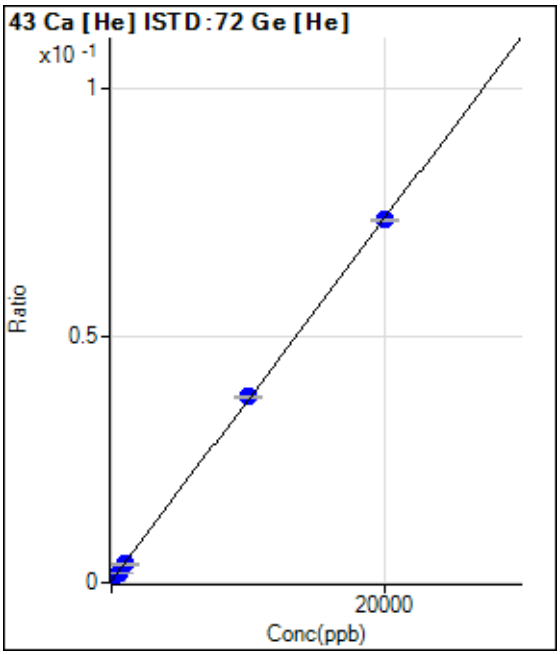
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	140162.16	0.1438	P	1.2
2	☐	200.000	210.888	391697.95	0.4078	P	0.4
3	☐	500.000	523.866	756983.76	0.7997	P	2.4
4	☐	1000.000	1015.332	1356128.42	1.4150	A	0.4
5	☐	10000.00	10159.42	11787504.41	12.8635	A	1.7
6	☐	20000.00	19918.81	22312788.00	25.0824	A	1.2

y = 0.0013 * x + 0.1438
R = 1.0000
DL = 4.012
BEC = 114.8

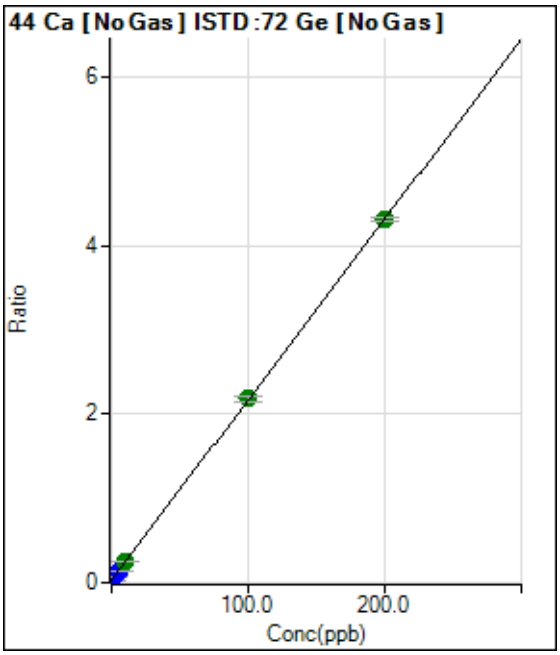
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	366.68	0.0004	P	20.9
2	☐	200.000	185.946	1016.73	0.0011	P	9.3
3	☐	500.000	460.723	1956.84	0.0021	P	1.8
4	☐	1000.000	931.959	3637.21	0.0038	P	5.2
5	☐	10000.00	10164.94	34523.62	0.0377	P	0.9
6	☐	20000.00	19922.05	65358.73	0.0735	P	0.5

y = 3.6691E-006 * x + 3.7624E-004
R = 0.9999
DL = 64.27
BEC = 102.5

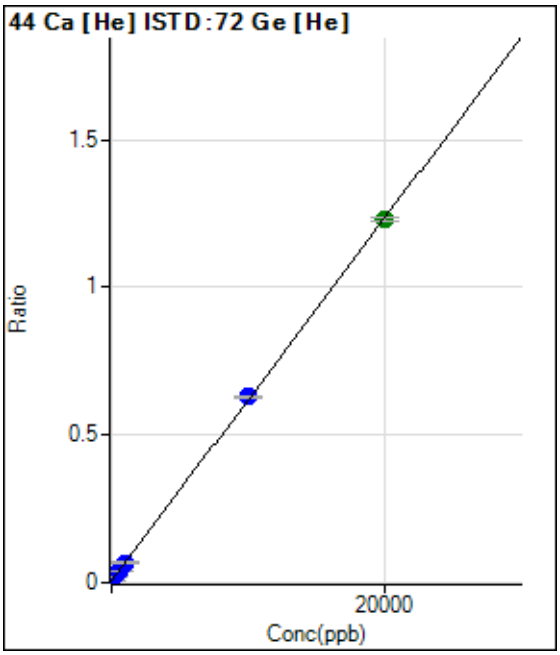
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	101357.82	0.0289	P	2.4
2	☐	2.000	2.084	259002.90	0.0736	P	1.3
3	☐	5.000	5.239	486856.59	0.1412	P	1.0
4	☐	10.000	10.493	875352.72	0.2539	A	2.2
5	☐	100.000	100.453	7272724.89	2.1822	A	2.1
6	☐	200.000	199.742	13935122.29	4.3105	A	1.0

y = 0.0214 * x + 0.0289
R = 1.0000
DL = 0.09764
BEC = 1.351

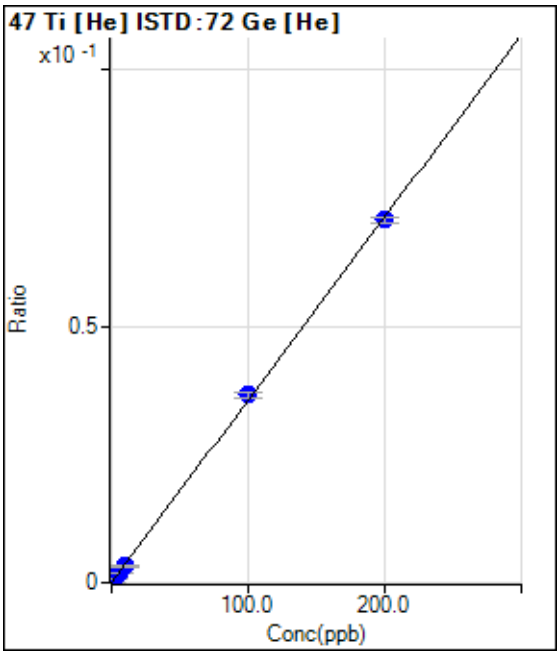
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5637.91	0.0058	P	3.1
2	☐	200.000	211.774	18038.76	0.0188	P	2.8
3	☐	500.000	526.035	36034.21	0.0381	P	3.2
4	☐	1000.000	1015.791	65315.23	0.0681	P	1.9
5	☐	10000.00	10157.87	576693.64	0.6293	P	0.7
6	☐	20000.00	19919.50	1092796.81	1.2284	A	1.0

y = 6.1379E-005 * x + 0.0058
R = 1.0000
DL = 8.865
BEC = 94.25

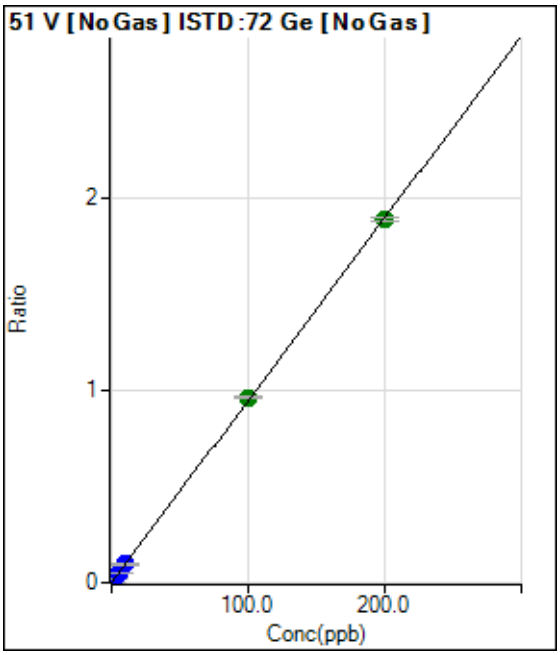
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	20.00	0.0000	P	50.5
2	☐	2.000	2.056	723.36	0.0008	P	13.4
3	☐	5.000	4.917	1676.81	0.0018	P	6.8
4	☐	10.000	8.915	3060.40	0.0032	P	4.5
5	☐	100.000	102.826	33568.07	0.0366	P	3.2
6	☐	200.000	198.643	62937.67	0.0708	P	1.4

y = 3.5607E-004 * x + 2.0603E-005
R = 0.9998
DL = 0.08774
BEC = 0.05786

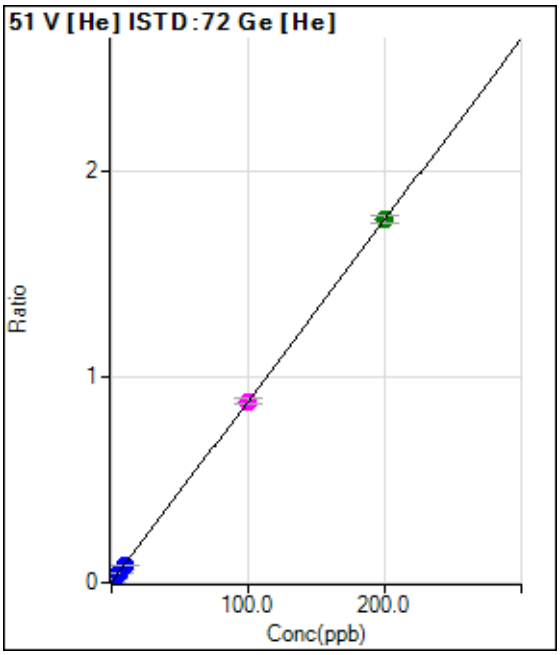
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	-8143.04	-0.0023	P	-69.8
2	☐	2.000	1.994	58366.78	0.0166	P	10.9
3	☐	5.000	5.099	158691.15	0.0460	P	2.4
4	☐	10.000	10.192	325267.51	0.0944	P	4.8
5	☐	100.000	101.519	3202137.10	0.9607	A	1.2
6	☐	200.000	199.228	6101866.11	1.8875	A	1.3

y = 0.0095 * x - 0.0023
R = 1.0000
DL = 0.5146
BEC = -0.2459

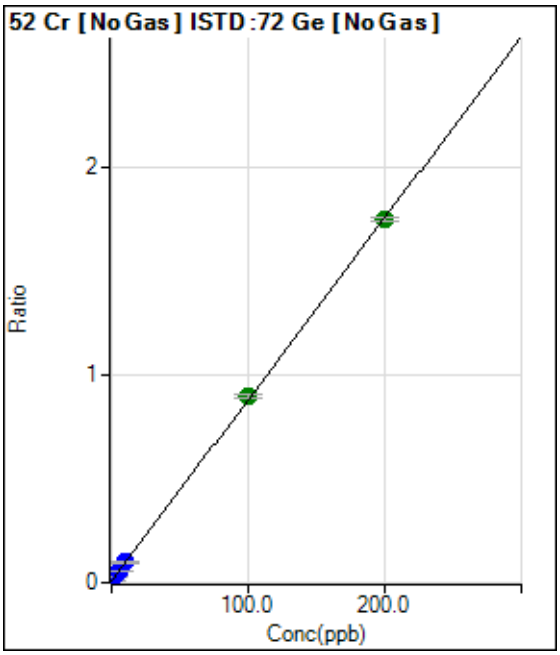
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1386.96	0.0014	P	48.0
2	☐	2.000	2.006	18375.52	0.0191	P	2.0
3	☐	5.000	4.984	42990.72	0.0454	P	2.4
4	☐	10.000	9.597	82560.32	0.0861	P	0.9
5	☐	100.000	99.990	810407.82	0.8841	M	2.8
6	☐	200.000	200.026	1571973.49	1.7672	A	2.1

y = 0.0088 * x + 0.0014
R = 1.0000
DL = 0.2321
BEC = 0.1611

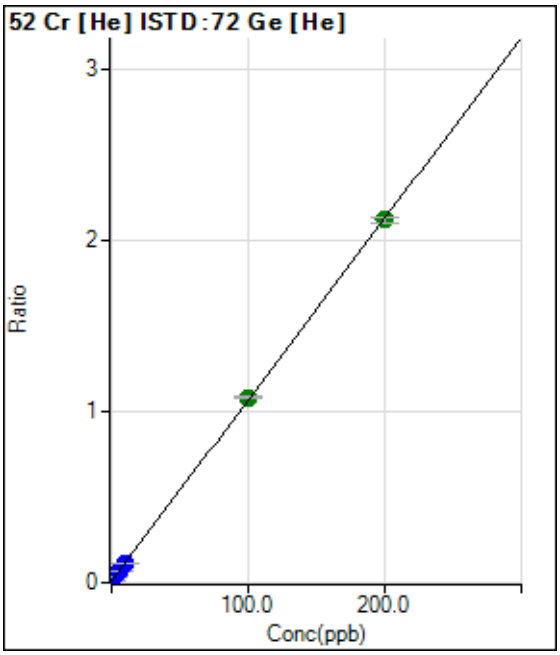
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	25914.86	0.0074	P	2.2
2	☐	2.000	2.095	90448.23	0.0257	P	1.6
3	☐	5.000	5.227	182966.12	0.0531	P	1.2
4	☐	10.000	10.326	336657.51	0.0976	P	2.7
5	☐	100.000	101.747	2988296.73	0.8966	A	1.7
6	☐	200.000	199.103	5648775.54	1.7474	A	1.2

y = 0.0087 * x + 0.0074
R = 0.9999
DL = 0.0571
BEC = 0.847

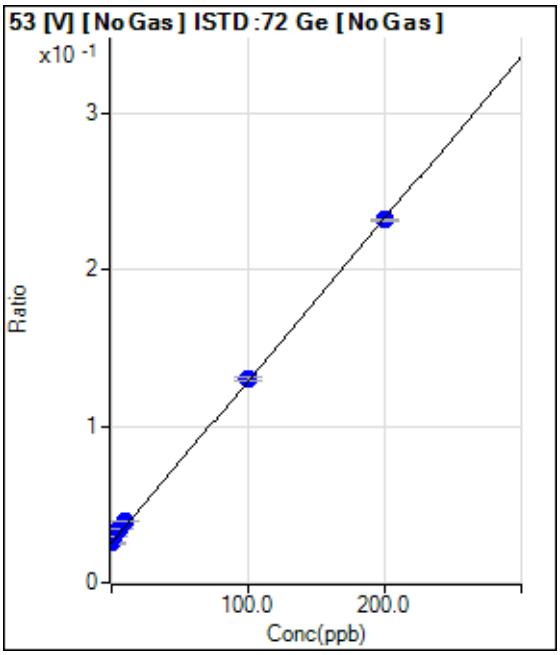
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	8779.65	0.0090	P	3.7
2	☐	2.000	2.050	29472.23	0.0307	P	3.2
3	☐	5.000	5.146	60045.49	0.0634	P	1.5
4	☐	10.000	9.860	108558.17	0.1133	P	0.4
5	☐	100.000	101.279	989797.36	1.0800	A	1.4
6	☐	200.000	199.363	1883336.90	2.1171	A	1.7

y = 0.0106 * x + 0.0090
R = 1.0000
DL = 0.09351
BEC = 0.8519

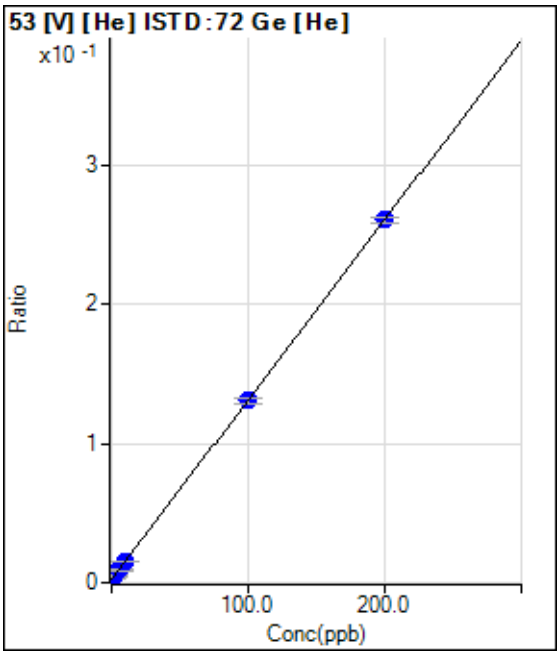
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	88975.02	0.0254	P	2.6
2	☐	2.000	4.208	104728.25	0.0298	P	1.1
3	☐	5.000	8.521	118042.65	0.0342	P	1.0
4	☐	10.000	13.406	135546.32	0.0393	P	1.9
5	☐	100.000	101.008	433674.60	0.1301	P	1.8
6	☐	200.000	199.216	749789.10	0.2319	P	0.8

y = 0.0010 * x + 0.0254
R = 0.9999
DL = 1.945
BEC = 24.51

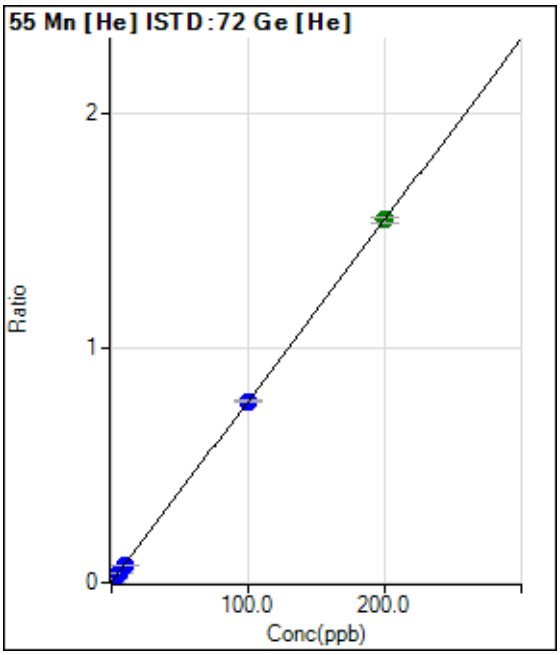
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2126.86	0.0022	P	9.7
2	☐	2.000	2.030	4617.55	0.0048	P	2.4
3	☐	5.000	5.279	8529.48	0.0090	P	4.1
4	☐	10.000	10.105	14618.03	0.0153	P	1.4
5	☐	100.000	99.659	120123.91	0.1311	P	2.7
6	☐	200.000	200.158	232271.32	0.2611	P	1.5

y = 0.0013 * x + 0.0022
R = 1.0000
DL = 0.4903
BEC = 1.687

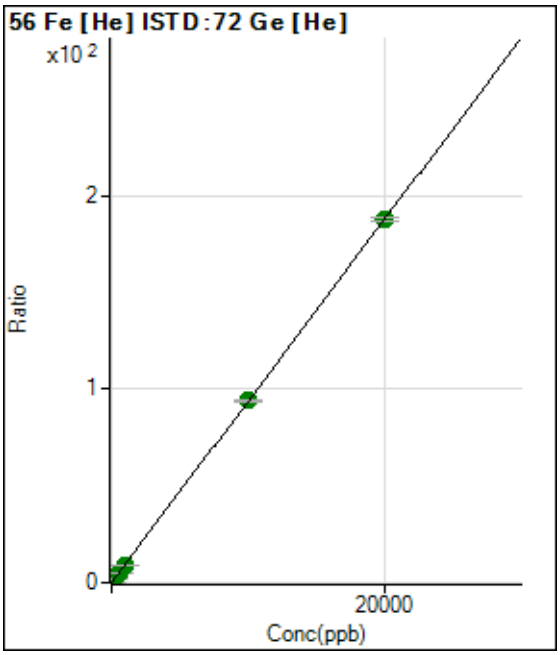
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1403.43	0.0014	P	7.6
2	☐	2.000	2.003	16249.96	0.0169	P	2.5
3	☐	5.000	5.030	38157.15	0.0403	P	2.7
4	☐	10.000	9.697	73209.40	0.0764	P	0.6
5	☐	100.000	99.983	709388.92	0.7741	P	1.2
6	☐	200.000	200.023	1376336.07	1.5472	A	1.6

y = 0.0077 * x + 0.0014
R = 1.0000
DL = 0.04243
BEC = 0.1865

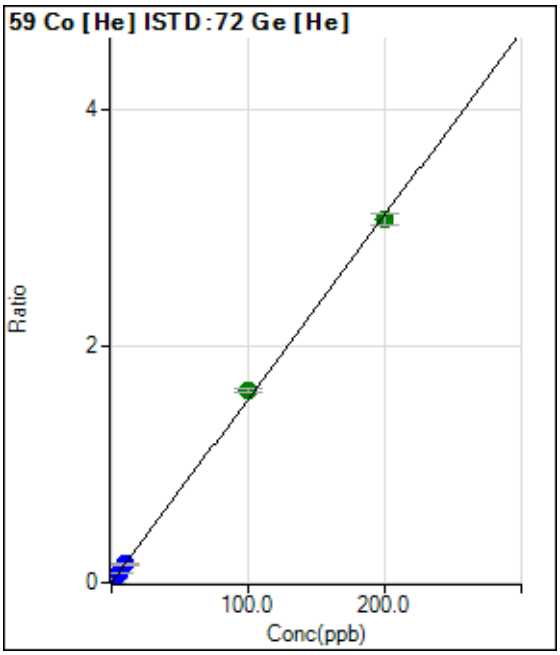
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	29082.50	0.0298	P	4.0
2	☐	200.000	207.784	1900255.13	1.9786	A	1.1
3	☐	500.000	512.713	4579122.85	4.8384	A	3.5
4	☐	1000.000	971.612	8761813.83	9.1423	A	1.0
5	☐	10000.00	10047.11	86380912.05	94.2589	A	0.9
6	☐	20000.00	19977.46	166701857.5	187.392	A	1.0

y = 0.0094 * x + 0.0298
R = 1.0000
DL = 0.3858
BEC = 3.182

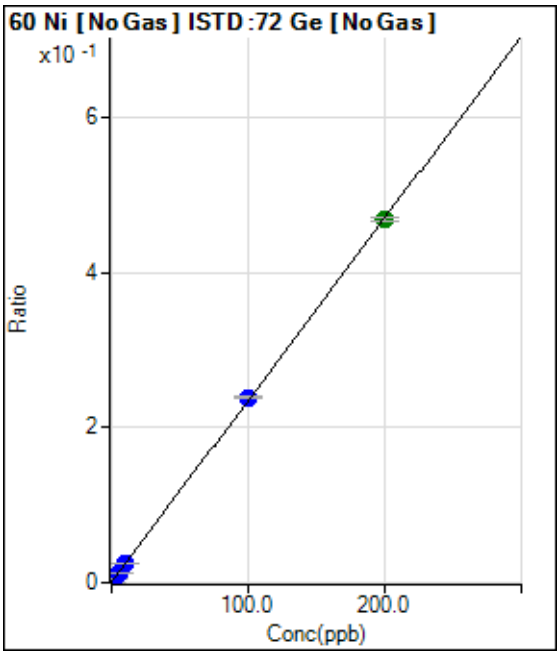
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	106.67	0.0001	P	31.7
2	☐	2.000	2.087	31239.54	0.0325	P	1.1
3	☐	5.000	5.112	75254.29	0.0795	P	3.0
4	☐	10.000	9.972	148585.00	0.1550	P	1.1
5	☐	100.000	104.900	1493210.91	1.6295	A	1.6
6	☐	200.000	197.547	2729662.98	3.0686	A	3.1

y = 0.0155 * x + 1.0919E-004
R = 0.9996
DL = 0.006692
BEC = 0.00703

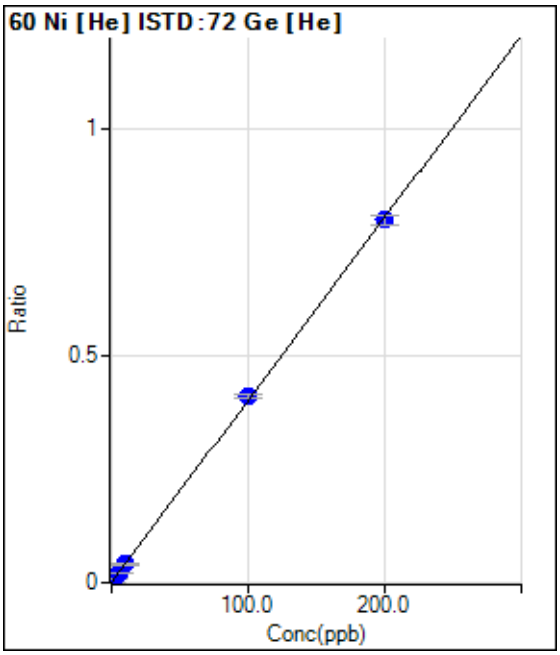
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1516.78	0.0004	P	9.1
2	☐	2.000	2.107	18923.50	0.0054	P	2.5
3	☐	5.000	5.111	42837.75	0.0124	P	1.7
4	☐	10.000	10.304	84870.17	0.0246	P	1.7
5	☐	100.000	101.506	795402.25	0.2386	P	1.2
6	☐	200.000	199.228	1512808.31	0.4679	A	1.0

y = 0.0023 * x + 4.3347E-004
R = 1.0000
DL = 0.05041
BEC = 0.1847

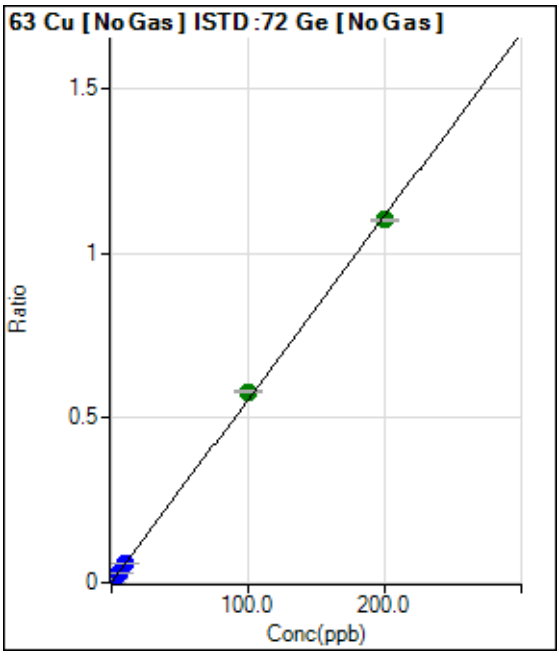
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	510.02	0.0005	P	11.7
2	☐	2.000	2.052	8419.40	0.0088	P	2.6
3	☐	5.000	5.183	20208.64	0.0213	P	3.0
4	☐	10.000	9.973	38905.92	0.0406	P	1.7
5	☐	100.000	102.292	377047.04	0.4114	P	1.5
6	☐	200.000	198.850	711037.65	0.7993	P	2.5

y = 0.0040 * x + 5.2237E-004
R = 0.9999
DL = 0.0456
BEC = 0.13

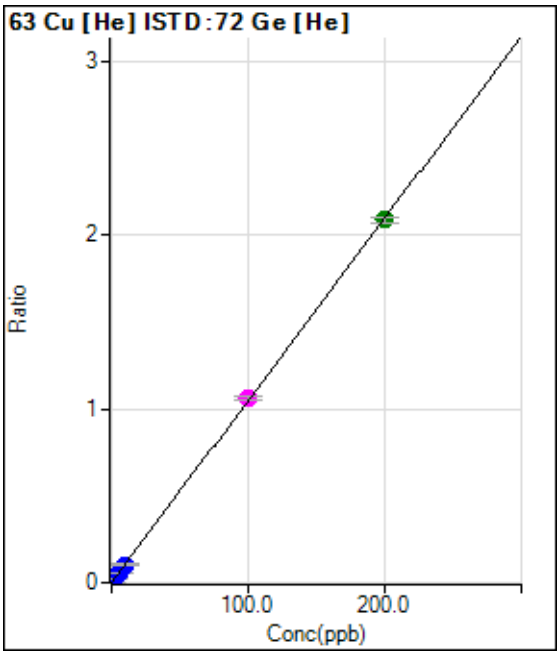
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1893.50	0.0005	P	7.7
2	☐	2.000	2.087	42734.30	0.0121	P	2.7
3	☐	5.000	5.230	102119.61	0.0296	P	1.2
4	☐	10.000	10.253	198450.14	0.0576	P	2.6
5	☐	100.000	104.075	1930905.70	0.5793	A	1.2
6	☐	200.000	197.943	3560734.11	1.1013	A	0.6

y = 0.0056 * x + 5.4063E-004
R = 0.9997
DL = 0.02251
BEC = 0.09722

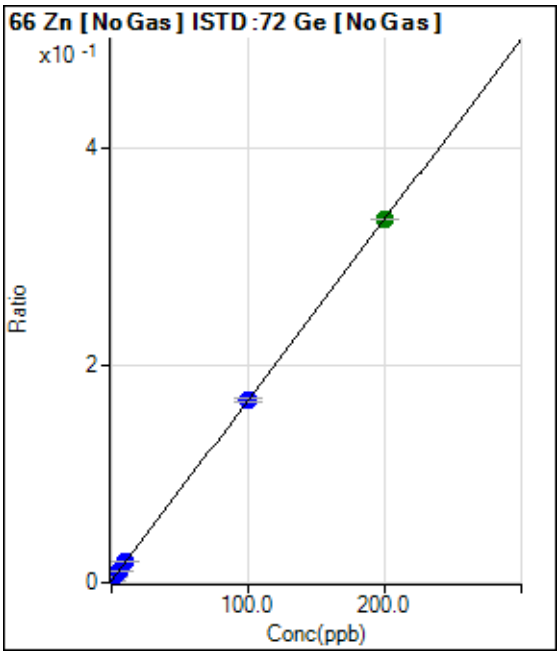
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	850.04	0.0009	P	3.2
2	☐	2.000	2.064	21587.33	0.0225	P	0.3
3	☐	5.000	5.090	51260.33	0.0541	P	1.3
4	☐	10.000	9.819	99368.60	0.1036	P	2.9
5	☐	100.000	101.473	974051.65	1.0629	M	1.7
6	☐	200.000	199.270	1855963.46	2.0864	A	1.7

y = 0.0105 * x + 8.7160E-004
R = 1.0000
DL = 0.008006
BEC = 0.08328

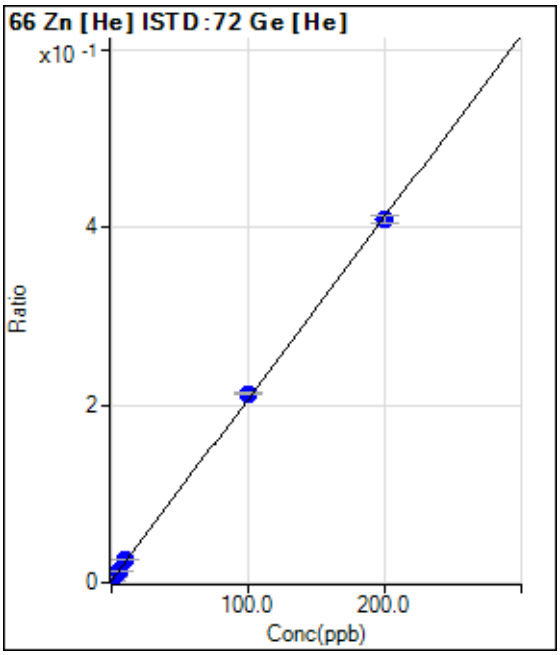
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6424.99	0.0018	P	2.8
2	☐	2.000	2.324	20048.45	0.0057	P	4.7
3	☐	5.000	5.157	35897.91	0.0104	P	2.8
4	☐	10.000	10.804	68301.94	0.0198	P	3.2
5	☐	100.000	100.379	562732.55	0.1688	P	2.1
6	☐	200.000	199.763	1080557.82	0.3342	A	0.1

y = 0.0017 * x + 0.0018
R = 1.0000
DL = 0.09247
BEC = 1.102

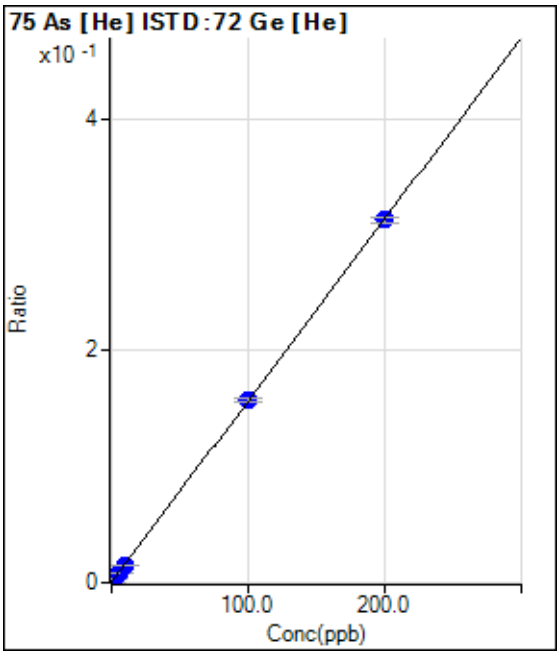
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2296.92	0.0024	P	4.2
2	☐	2.000	2.221	6625.07	0.0069	P	9.2
3	☐	5.000	5.422	12729.50	0.0135	P	4.1
4	☐	10.000	11.283	24392.29	0.0254	P	1.8
5	☐	100.000	102.871	195049.75	0.2128	P	1.4
6	☐	200.000	198.488	363379.25	0.4085	P	2.0

y = 0.0020 * x + 0.0024
R = 0.9999
DL = 0.1436
BEC = 1.152

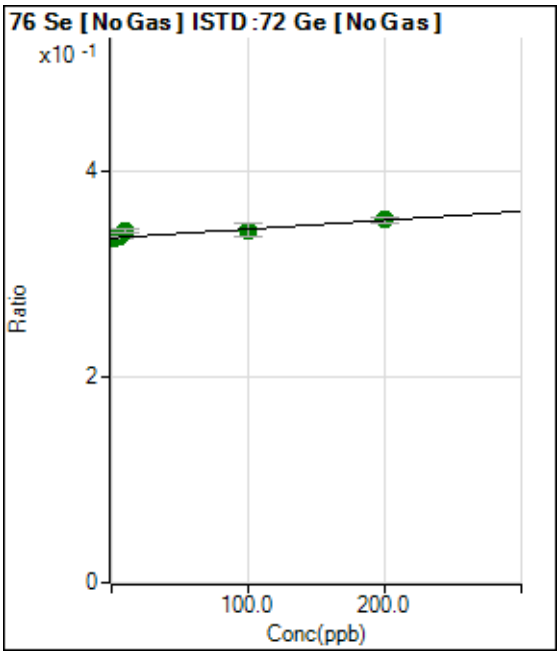
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	274.45	0.0003	P	7.8
2	☐	2.000	1.996	3269.30	0.0034	P	0.7
3	☐	5.000	4.921	7554.36	0.0080	P	3.1
4	☐	10.000	9.747	14887.16	0.0155	P	0.8
5	☐	100.000	100.722	144680.05	0.1579	P	1.7
6	☐	200.000	199.653	278137.86	0.3127	P	1.7

y = 0.0016 * x + 2.8123E-004
R = 1.0000
DL = 0.04204
BEC = 0.1797

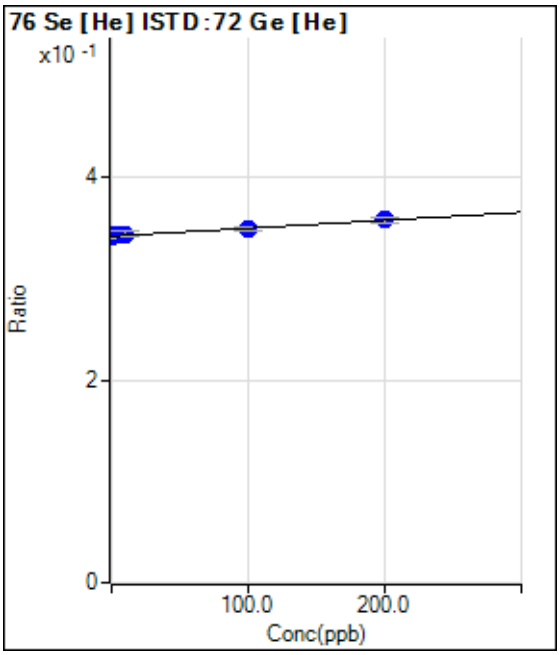
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1174732.51	0.3355	A	2.8
2	☐	2.000	-8.637	1177563.19	0.3348	A	1.4
3	☐	5.000	10.683	1159768.34	0.3365	A	0.8
4	☐	10.000	79.544	1180723.86	0.3424	A	1.5
5	☐	100.000	87.229	1143103.76	0.3431	A	3.6
6	☐	200.000	202.872	1141658.94	0.3531	A	1.6

y = 8.6627E-005 * x + 0.3355
R = 0.9292
DL = 320.3
BEC = 3873

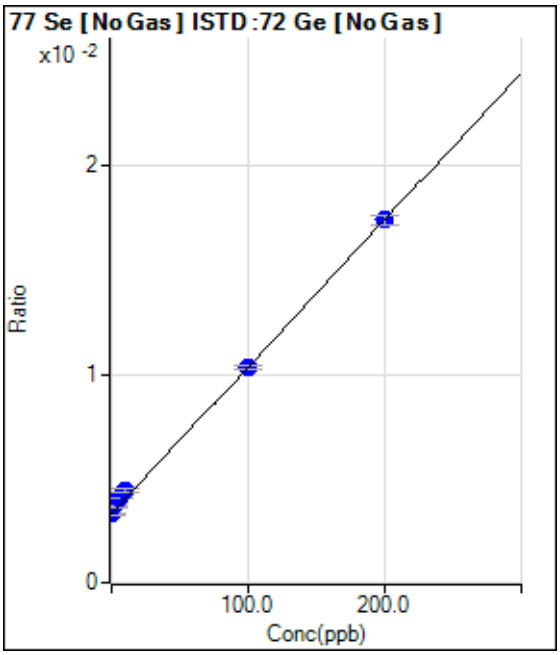
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	333741.40	0.3424	P	2.3
2	☐	2.000	24.362	330711.93	0.3443	P	0.9
3	☐	5.000	19.780	325648.65	0.3440	P	1.9
4	☐	10.000	20.288	329654.07	0.3440	P	1.6
5	☐	100.000	89.453	320281.38	0.3495	P	1.0
6	☐	200.000	204.166	318902.01	0.3585	P	1.4

y = 7.8686E-005 * x + 0.3424
R = 0.9910
DL = 302.6
BEC = 4352

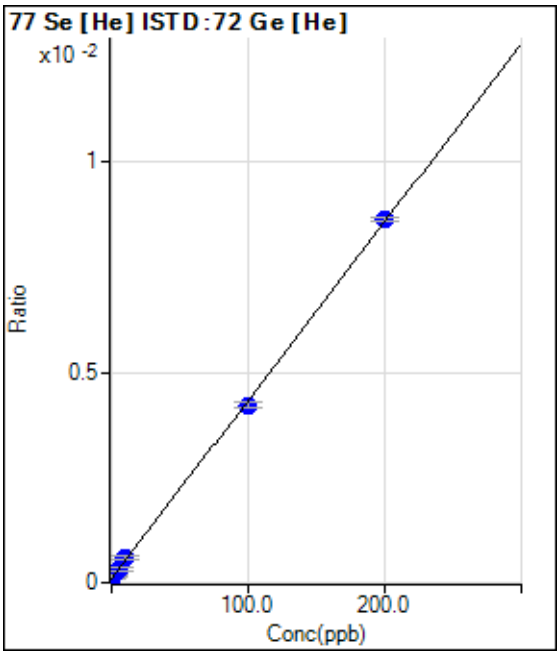
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	11588.50	0.0033	P	2.5
2	☐	2.000	5.200	12929.73	0.0037	P	2.0
3	☐	5.000	10.797	14030.85	0.0041	P	0.9
4	☐	10.000	15.707	15228.85	0.0044	P	2.7
5	☐	100.000	99.219	34357.39	0.0103	P	2.1
6	☐	200.000	199.928	56294.39	0.0174	P	2.7

y = 7.0542E-005 * x + 0.0033
R = 0.9995
DL = 3.466
BEC = 46.91

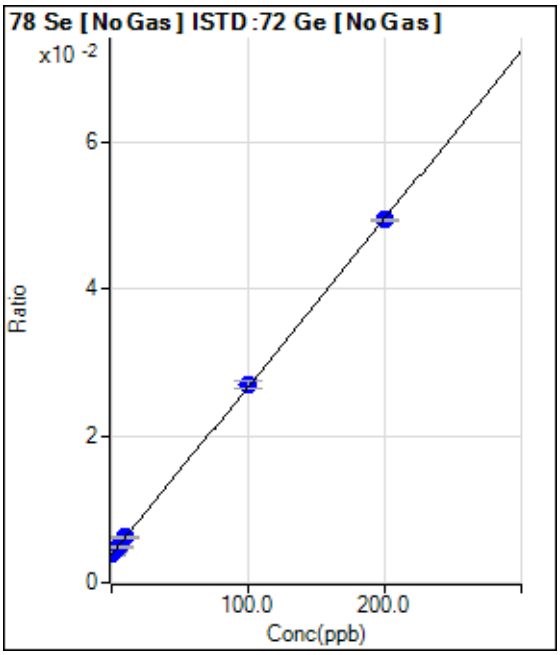
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	93.33	0.0001	P	34.6
2	☐	2.000	1.760	163.33	0.0002	P	22.4
3	☐	5.000	5.680	320.01	0.0003	P	25.0
4	☐	10.000	11.608	563.36	0.0006	P	11.4
5	☐	100.000	97.409	3870.62	0.0042	P	3.3
6	☐	200.000	201.200	7668.95	0.0086	P	0.9

y = 4.2372E-005 * x + 9.5745E-005
R = 0.9998
DL = 2.344
BEC = 2.26

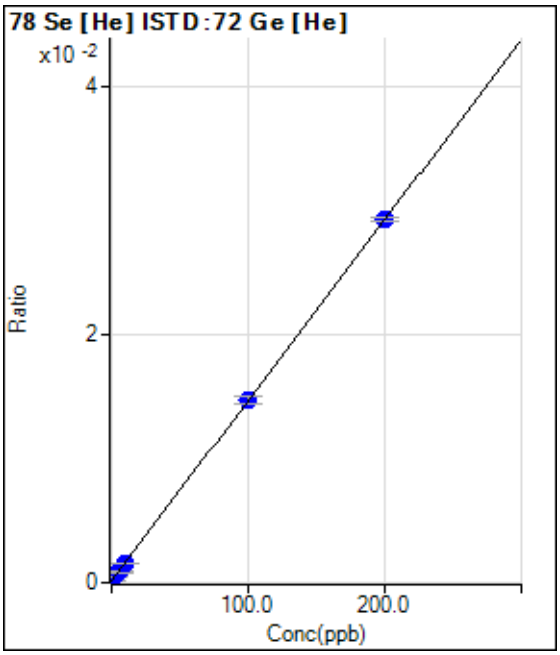
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13420.24	0.0038	P	2.3
2	☐	2.000	2.128	15198.85	0.0043	P	3.9
3	☐	5.000	4.558	16807.37	0.0049	P	3.0
4	☐	10.000	10.294	21340.56	0.0062	P	2.8
5	☐	100.000	101.280	90033.71	0.0270	P	3.4
6	☐	200.000	199.355	159955.82	0.0495	P	0.4

y = 2.2896E-004 * x + 0.0038
R = 1.0000
DL = 1.165
BEC = 16.74

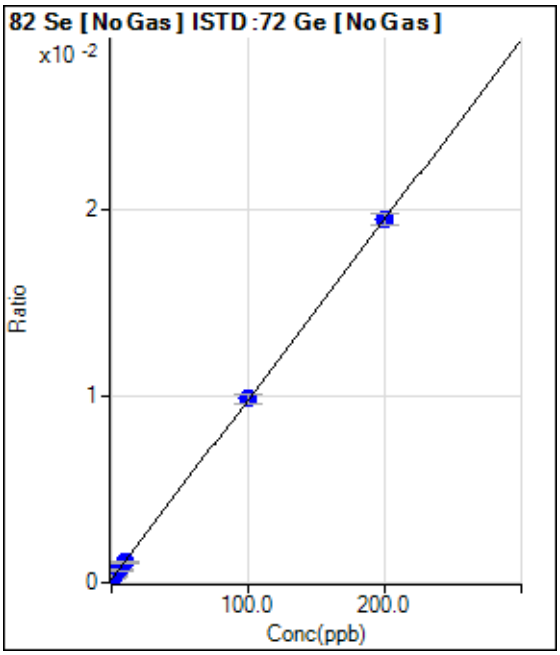
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	135.33	0.0001	P	6.0
2	☐	2.000	1.861	394.01	0.0004	P	5.7
3	☐	5.000	5.091	834.03	0.0009	P	10.7
4	☐	10.000	9.725	1491.42	0.0016	P	6.1
5	☐	100.000	99.943	13476.09	0.0147	P	3.9
6	☐	200.000	200.041	26063.16	0.0293	P	1.0

y = 1.4577E-004 * x + 1.3892E-004
R = 1.0000
DL = 0.1724
BEC = 0.953

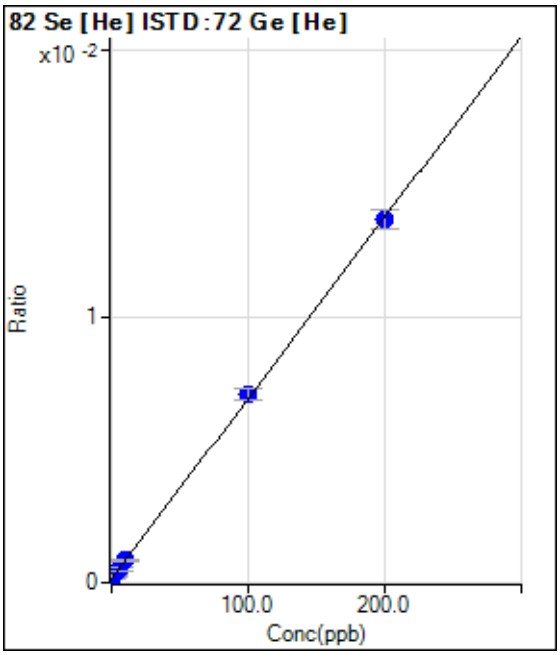
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	616.69	0.0002	P	12.9
2	☐	2.000	1.900	1263.42	0.0004	P	11.6
3	☐	5.000	5.135	2313.58	0.0007	P	9.1
4	☐	10.000	9.571	3790.61	0.0011	P	3.5
5	☐	100.000	100.311	32810.52	0.0099	P	5.5
6	☐	200.000	199.864	62873.75	0.0195	P	3.3

y = 9.6451E-005 * x + 1.7594E-004
R = 1.0000
DL = 0.7084
BEC = 1.824

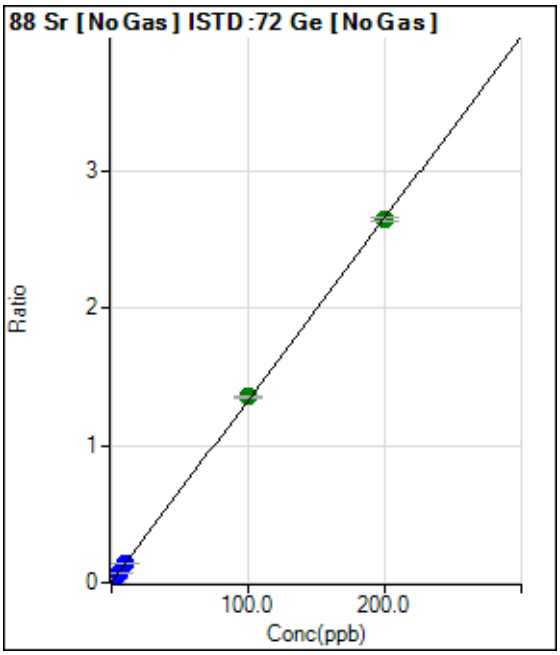
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	133.33	0.0001	P	33.6
2	☐	2.000	1.916	256.68	0.0003	P	26.7
3	☐	5.000	5.754	496.69	0.0005	P	31.7
4	☐	10.000	10.646	823.38	0.0009	P	8.0
5	☐	100.000	102.439	6501.68	0.0071	P	6.5
6	☐	200.000	198.730	12132.31	0.0136	P	5.4

y = 6.7942E-005 * x + 1.3660E-004
R = 0.9999
DL = 2.025
BEC = 2.01

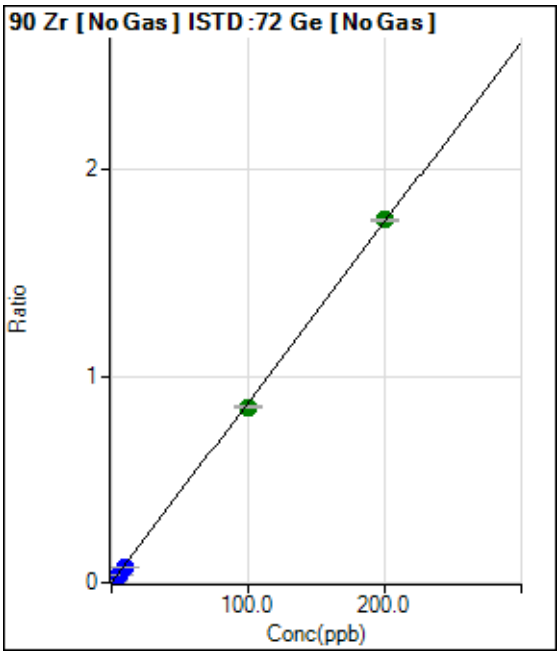
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	15622.72	0.0045	P	3.4
2	☐	2.000	1.981	108040.73	0.0307	P	1.0
3	☐	5.000	5.057	246366.14	0.0715	P	0.5
4	☐	10.000	10.055	474765.71	0.1377	P	2.4
5	☐	100.000	101.698	4506706.70	1.3521	A	1.2
6	☐	200.000	199.147	8545855.08	2.6434	A	1.2

y = 0.0133 * x + 0.0045
R = 0.9999
DL = 0.03475
BEC = 0.3368

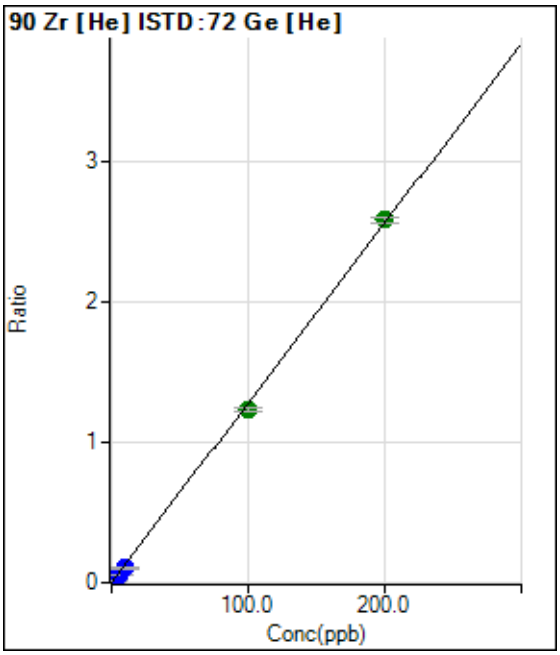
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2106.87	0.0006	P	3.5
2	☐	2.000	1.521	48786.21	0.0139	P	1.9
3	☐	5.000	4.069	124415.69	0.0361	P	0.2
4	☐	10.000	8.476	257007.04	0.0745	P	2.7
5	☐	100.000	97.558	2839010.69	0.8517	A	0.9
6	☐	200.000	201.325	5680294.50	1.7569	A	0.6

y = 0.0087 * x + 6.0161E-004
R = 0.9999
DL = 0.007139
BEC = 0.06896

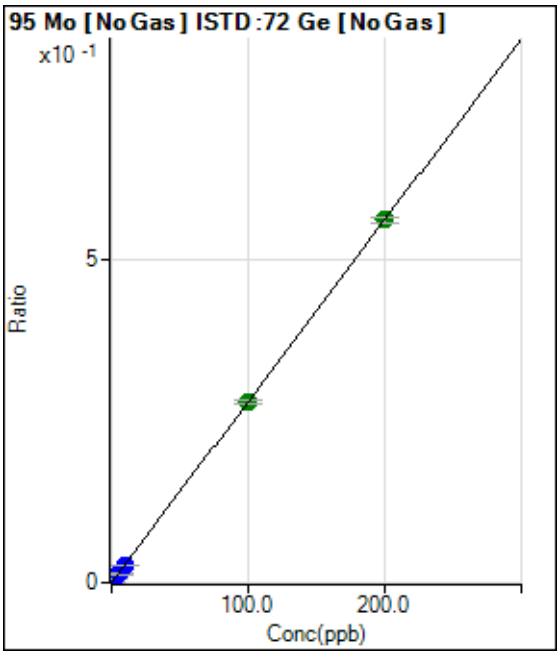
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1156.74	0.0012	P	2.8
2	☐	2.000	1.441	18833.62	0.0196	P	1.0
3	☐	5.000	3.907	48428.18	0.0512	P	2.0
4	☐	10.000	8.012	99334.58	0.1036	P	2.5
5	☐	100.000	96.399	1130982.14	1.2340	A	1.4
6	☐	200.000	201.933	2298449.60	2.5837	A	1.8

y = 0.0128 * x + 0.0012
R = 0.9998
DL = 0.007812
BEC = 0.09274

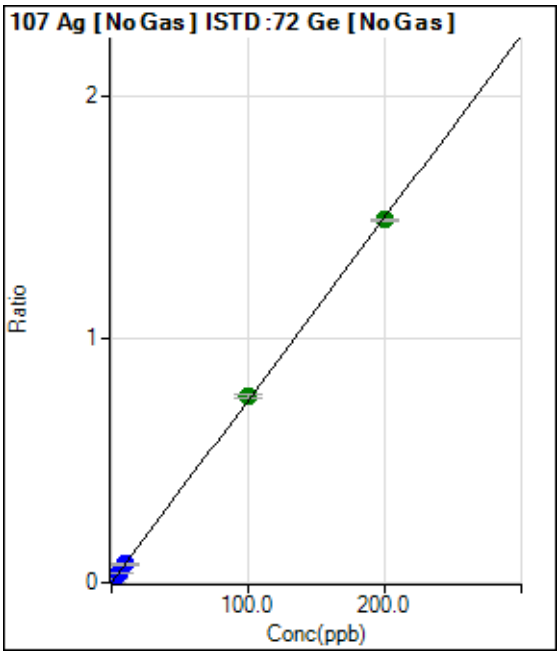
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	200.01	0.0001	P	30.2
2	☐	2.000	1.891	18860.32	0.0054	P	2.1
3	☐	5.000	4.796	46565.17	0.0135	P	2.3
4	☐	10.000	9.502	92084.46	0.0267	P	4.4
5	☐	100.000	99.592	931361.26	0.2794	A	1.8
6	☐	200.000	200.235	1815728.52	0.5617	A	1.3

y = 0.0028 * x + 5.6964E-005
R = 1.0000
DL = 0.0184
BEC = 0.02031

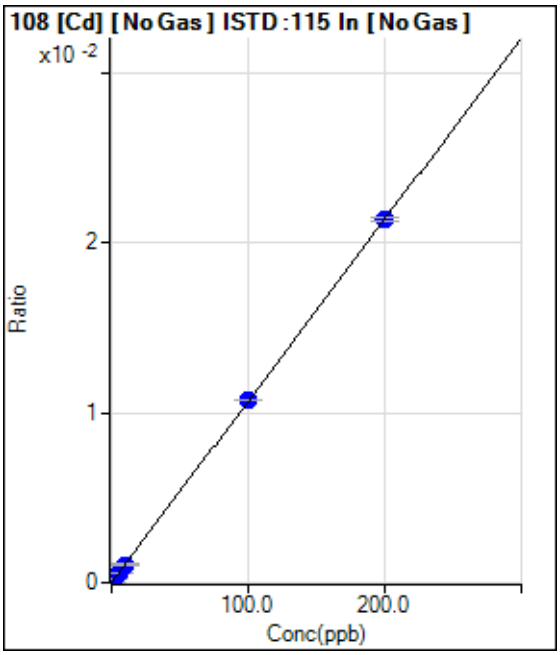
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	470.02	0.0001	P	17.8
2	☐	2.000	2.043	54355.48	0.0155	P	3.0
3	☐	5.000	5.125	132940.90	0.0386	P	1.1
4	☐	10.000	10.040	260068.32	0.0754	P	2.0
5	☐	100.000	102.352	2558256.37	0.7677	A	2.6
6	☐	200.000	198.819	4820618.57	1.4911	A	0.7

y = 0.0075 * x + 1.3412E-004
R = 0.9999
DL = 0.009577
BEC = 0.01788

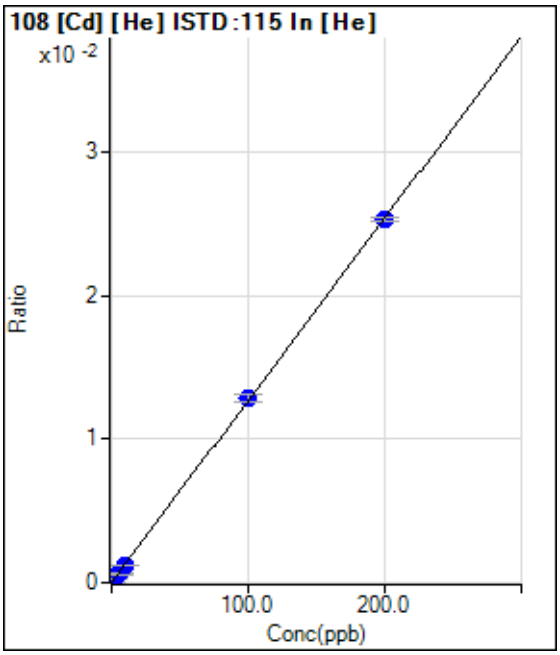
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	16.67	0.0000	P	69.8
2	☐	2.000	1.914	836.71	0.0002	P	6.0
3	☐	5.000	5.156	2193.56	0.0006	P	7.4
4	☐	10.000	9.683	4100.72	0.0010	P	7.6
5	☐	100.000	100.267	40288.56	0.0107	P	0.3
6	☐	200.000	199.879	78972.20	0.0214	P	1.0

y = 1.0681E-004 * x + 4.1632E-006
R = 1.0000
DL = 0.08164
BEC = 0.03898

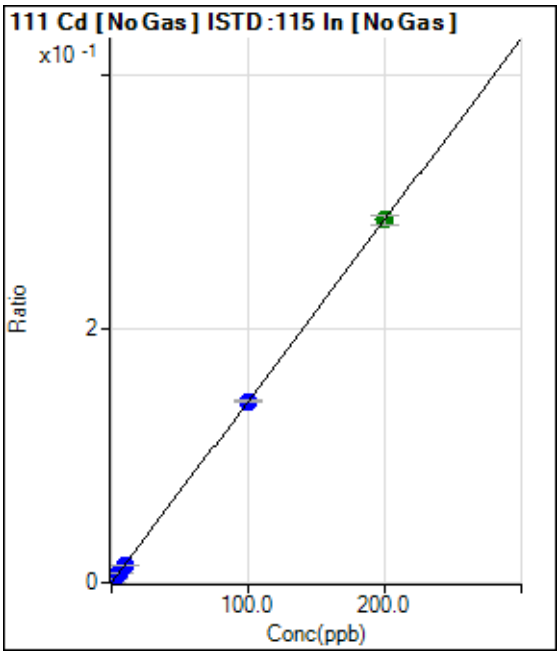
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	23.33	0.0000	P	26.1
2	☐	2.000	1.703	360.01	0.0002	P	4.1
3	☐	5.000	4.877	976.72	0.0006	P	13.2
4	☐	10.000	9.335	1856.83	0.0012	P	7.5
5	☐	100.000	101.508	19214.23	0.0129	P	3.7
6	☐	200.000	199.286	35882.53	0.0253	P	1.0

y = 1.2692E-004 * x + 1.4903E-005
R = 1.0000
DL = 0.09202
BEC = 0.1174

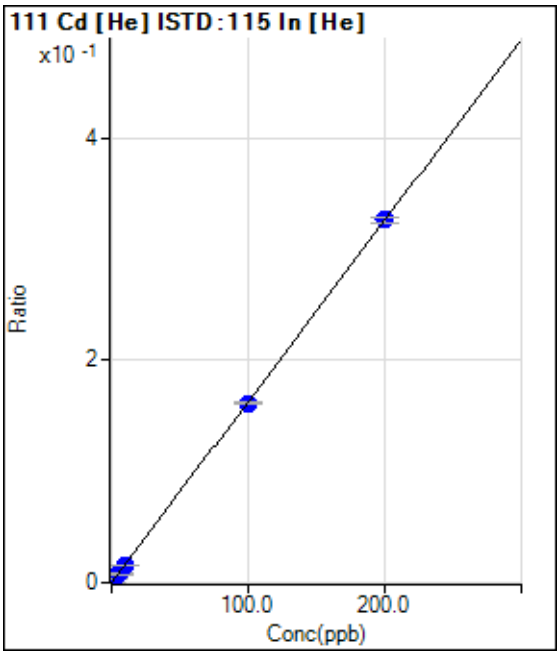
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13.33	0.0000	P	43.7
2	☐	2.000	1.914	10968.11	0.0027	P	4.9
3	☐	5.000	4.971	28030.20	0.0071	P	2.7
4	☐	10.000	9.604	54141.48	0.0137	P	1.8
5	☐	100.000	99.985	536658.24	0.1427	P	0.4
6	☐	200.000	200.029	1055974.39	0.2855	A	2.6

y = 0.0014 * x + 3.3263E-006
R = 1.0000
DL = 0.003055
BEC = 0.002331

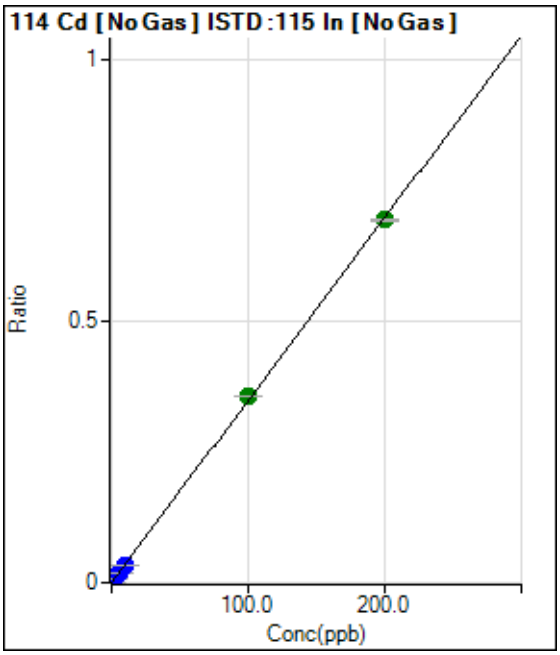
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	-25.04	0.0000	P	-26.1
2	☐	2.000	1.957	4934.88	0.0032	P	6.4
3	☐	5.000	4.811	12052.01	0.0078	P	2.0
4	☐	10.000	9.645	24300.78	0.0157	P	0.8
5	☐	100.000	99.193	240467.47	0.1614	P	0.7
6	☐	200.000	200.426	462417.66	0.3261	P	1.4

y = 0.0016 * x - 1.5991E-005
R = 1.0000
DL = 0.007701
BEC = -0.009826

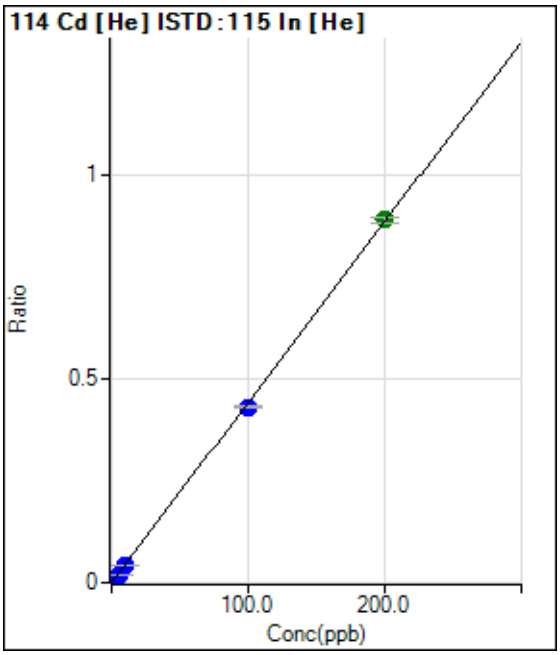
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	103.33	0.0000	P	36.2
2	☐	2.000	1.888	26460.26	0.0066	P	2.7
3	☐	5.000	4.831	66511.17	0.0168	P	1.0
4	☐	10.000	9.549	131314.35	0.0333	P	2.7
5	☐	100.000	102.060	1335737.53	0.3552	A	0.3
6	☐	200.000	198.998	2561468.09	0.6925	A	0.8

y = 0.0035 * x + 2.5717E-005
R = 0.9999
DL = 0.008021
BEC = 0.00739

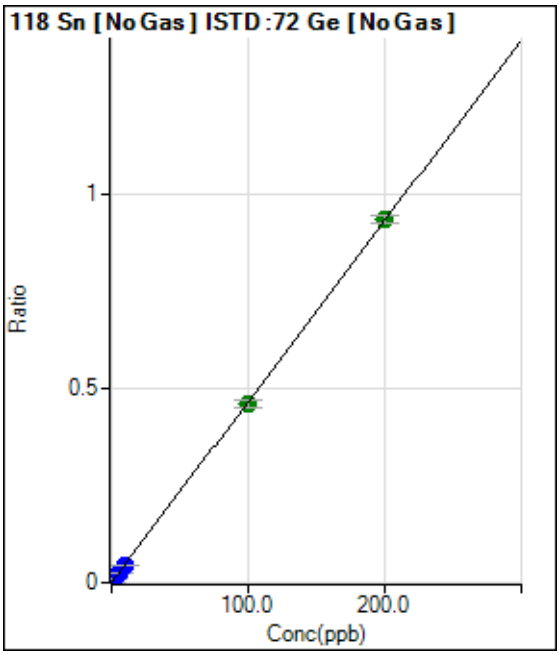
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	30.00	0.0000	P	88.0
2	☐	2.000	1.873	12946.53	0.0083	P	2.5
3	☐	5.000	4.710	32186.57	0.0209	P	3.1
4	☐	10.000	9.422	64682.64	0.0417	P	2.2
5	☐	100.000	97.434	642777.62	0.4314	P	1.0
6	☐	200.000	201.321	1264063.00	0.8913	A	1.9

y = 0.0044 * x + 1.8968E-005
R = 0.9999
DL = 0.01131
BEC = 0.004285

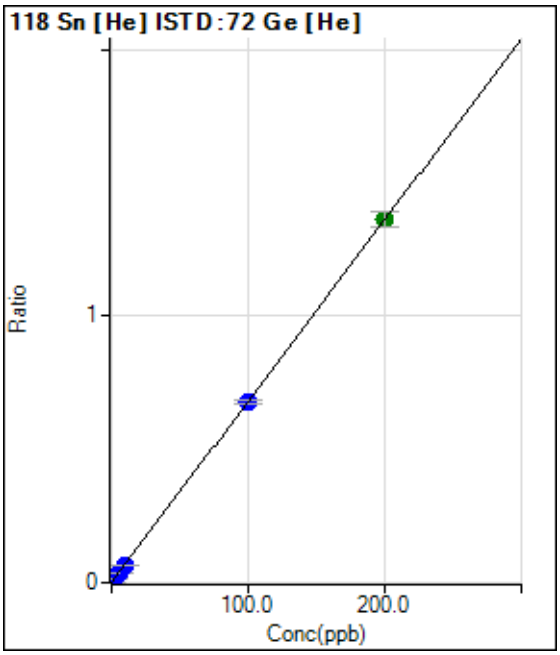
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2510.29	0.0007	P	8.3
2	☐	2.000	1.901	33626.81	0.0096	P	1.4
3	☐	5.000	4.786	79225.12	0.0230	P	0.6
4	☐	10.000	9.738	158695.13	0.0460	P	1.7
5	☐	100.000	98.741	1532744.19	0.4601	A	4.4
6	☐	200.000	200.649	3019773.70	0.9342	A	2.2

y = 0.0047 * x + 7.1731E-004
R = 1.0000
DL = 0.0384
BEC = 0.1542

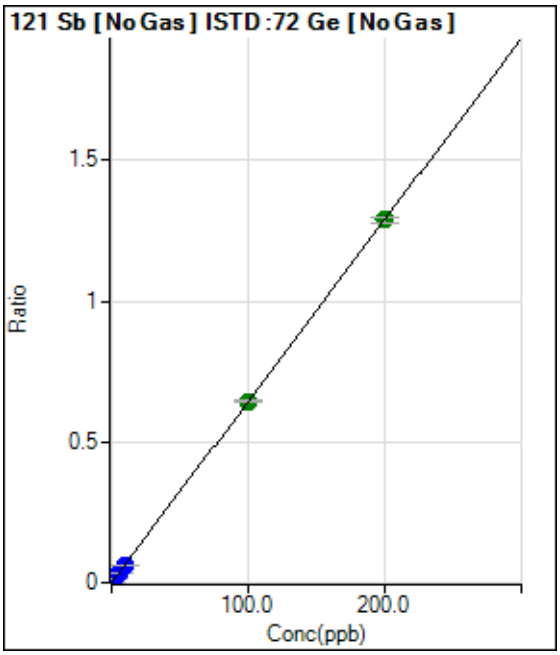
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1050.06	0.0011	P	6.4
2	☐	2.000	1.892	13390.48	0.0139	P	3.5
3	☐	5.000	4.995	33179.06	0.0350	P	3.0
4	☐	10.000	9.634	63828.66	0.0666	P	2.4
5	☐	100.000	99.829	623211.30	0.6800	P	2.1
6	☐	200.000	200.105	1211574.25	1.3620	A	4.1

y = 0.0068 * x + 0.0011
R = 1.0000
DL = 0.03056
BEC = 0.1582

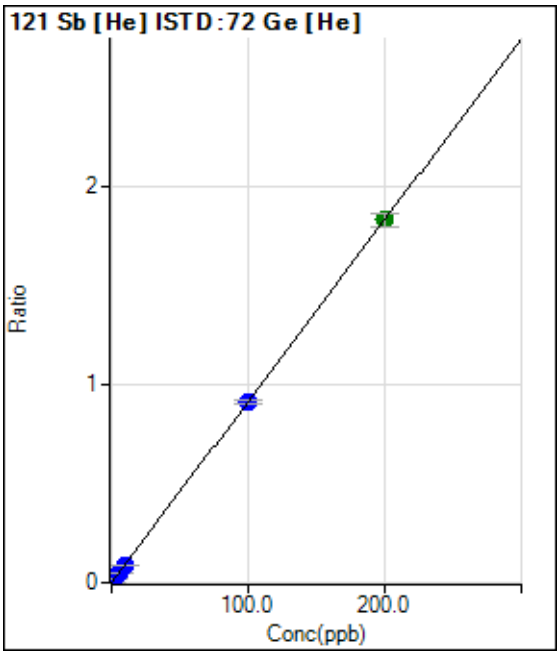
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	283.34	0.0001	P	19.8
2	☐	2.000	1.883	42970.68	0.0122	P	0.9
3	☐	5.000	4.912	109363.70	0.0317	P	1.8
4	☐	10.000	9.700	215775.33	0.0626	P	2.3
5	☐	100.000	99.911	2145914.81	0.6438	A	1.5
6	☐	200.000	200.063	4167276.50	1.2890	A	1.5

y = 0.0064 * x + 8.0817E-005
R = 1.0000
DL = 0.007436
BEC = 0.01254

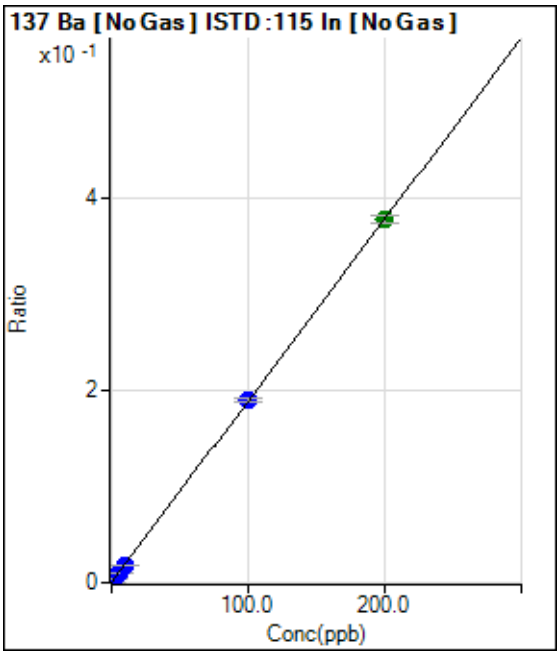
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	130.00	0.0001	P	19.3
2	☐	2.000	1.927	17098.05	0.0178	P	2.0
3	☐	5.000	4.855	42288.54	0.0447	P	1.0
4	☐	10.000	9.479	83451.57	0.0871	P	2.9
5	☐	100.000	99.806	839008.61	0.9155	P	2.3
6	☐	200.000	200.127	1632977.63	1.8357	A	3.5

y = 0.0092 * x + 1.3314E-004
R = 1.0000
DL = 0.008413
BEC = 0.01452

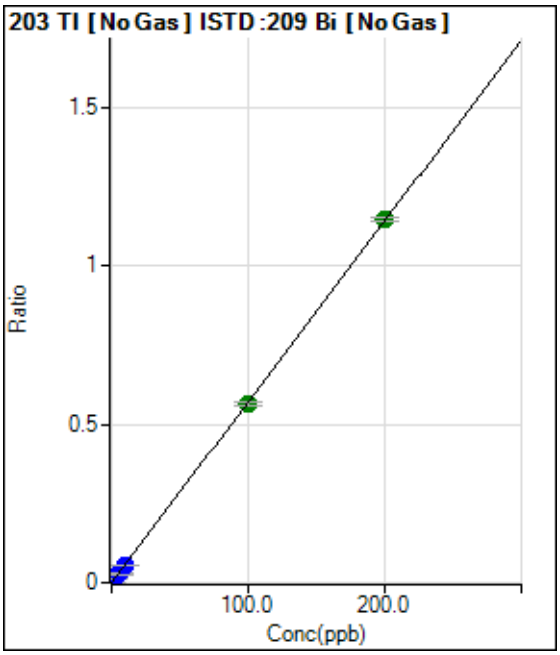
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1103.40	0.0003	P	7.2
2	☐	2.000	2.000	16257.12	0.0041	P	5.5
3	☐	5.000	4.829	37086.56	0.0094	P	5.5
4	☐	10.000	9.735	73682.40	0.0187	P	3.6
5	☐	100.000	100.565	715297.07	0.1902	P	1.8
6	☐	200.000	199.735	1396257.27	0.3775	A	2.0

y = 0.0019 * x + 2.7502E-004
R = 1.0000
DL = 0.03133
BEC = 0.1456

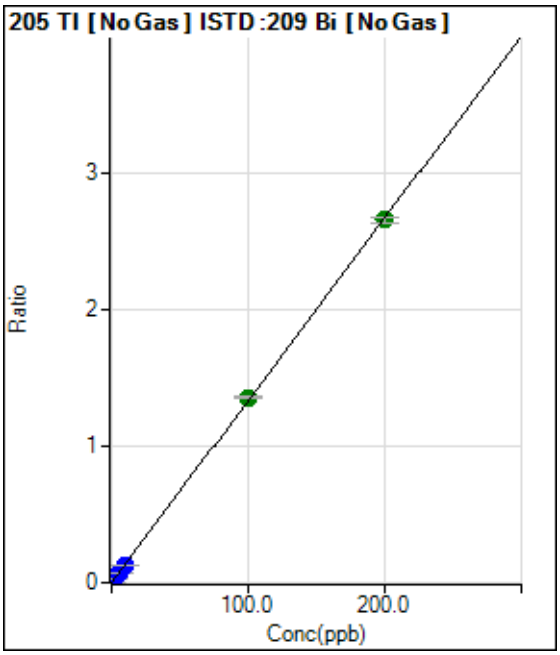
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	145.56	0.0000	P	19.6
2	☐	2.000	1.915	35625.17	0.0110	P	0.9
3	☐	5.000	4.840	89481.64	0.0277	P	2.8
4	☐	10.000	9.485	175452.10	0.0542	P	2.8
5	☐	100.000	98.582	1753700.66	0.5626	A	2.0
6	☐	200.000	200.740	3451632.43	1.1456	A	1.0

y = 0.0057 * x + 4.4910E-005
R = 1.0000
DL = 0.004633
BEC = 0.00787

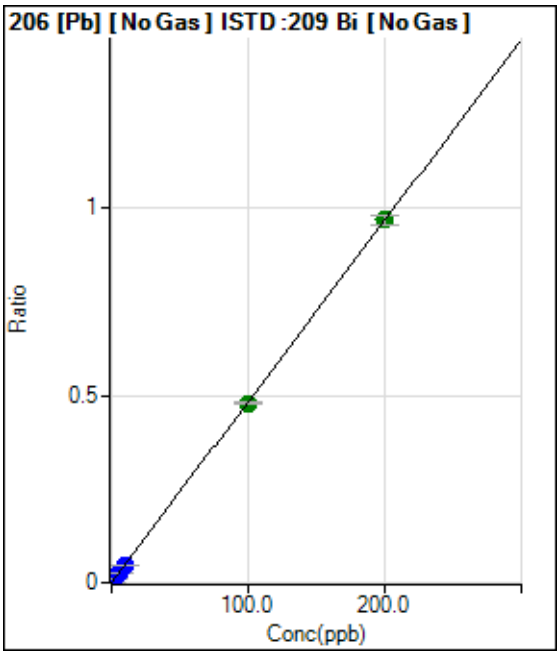
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	326.67	0.0001	P	5.9
2	☐	2.000	1.961	85105.06	0.0262	P	1.4
3	☐	5.000	5.004	215877.94	0.0667	P	1.8
4	☐	10.000	9.672	417487.54	0.1289	P	2.5
5	☐	100.000	101.711	4222039.28	1.3545	A	1.4
6	☐	200.000	199.161	7989509.41	2.6521	A	1.8

y = 0.0133 * x + 1.0089E-004
R = 0.9999
DL = 0.001331
BEC = 0.007577

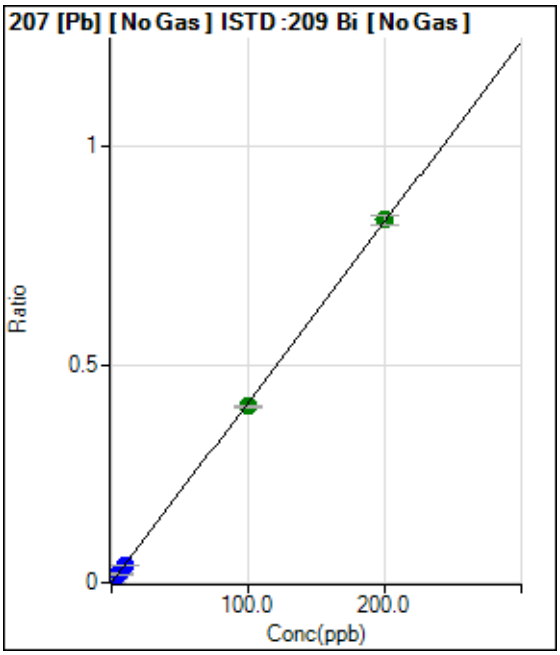
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	303.34	0.0001	P	27.3
2	☐	2.000	1.903	30163.63	0.0093	P	4.1
3	☐	5.000	4.834	75867.49	0.0235	P	1.8
4	☐	10.000	9.475	148599.17	0.0459	P	3.4
5	☐	100.000	99.130	1493306.28	0.4791	A	1.4
6	☐	200.000	200.466	2917520.69	0.9687	A	2.7

y = 0.0048 * x + 9.3839E-005
R = 1.0000
DL = 0.01592
BEC = 0.01942

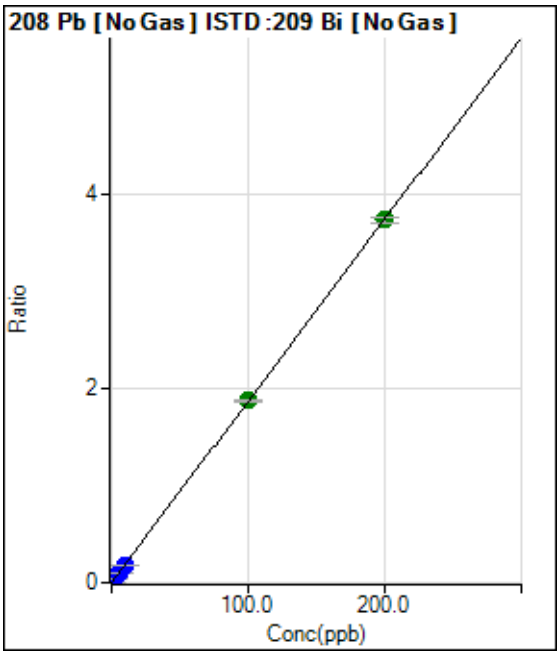
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	273.34	0.0001	P	26.3
2	☐	2.000	1.894	25737.01	0.0079	P	0.8
3	☐	5.000	4.834	65010.06	0.0201	P	2.9
4	☐	10.000	9.421	126596.27	0.0391	P	3.2
5	☐	100.000	97.907	1263817.30	0.4054	A	1.1
6	☐	200.000	201.081	2507874.29	0.8326	A	2.6

y = 0.0041 * x + 8.4495E-005
R = 0.9999
DL = 0.0161
BEC = 0.02041

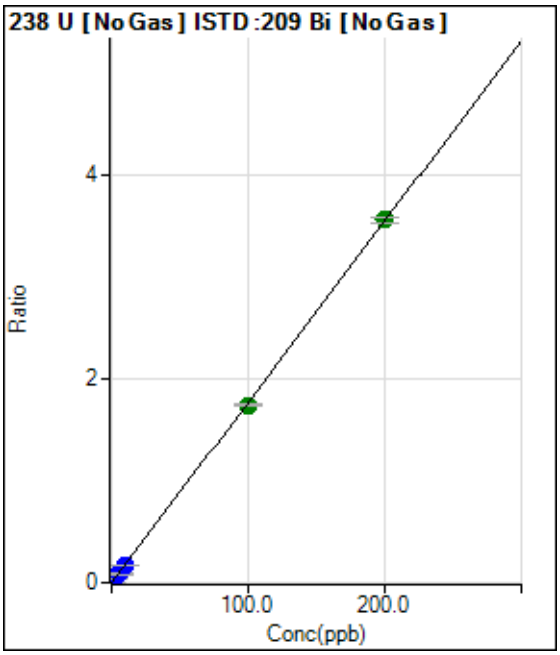
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1283.39	0.0004	P	7.9
2	☐	2.000	1.923	117911.69	0.0363	P	0.2
3	☐	5.000	4.939	299774.63	0.0927	P	1.7
4	☐	10.000	9.606	582478.89	0.1798	P	2.9
5	☐	100.000	100.337	5844009.05	1.8748	A	1.3
6	☐	200.000	199.853	11247371.34	3.7339	A	1.5

y = 0.0187 * x + 3.9659E-004
R = 1.0000
DL = 0.005053
BEC = 0.02123

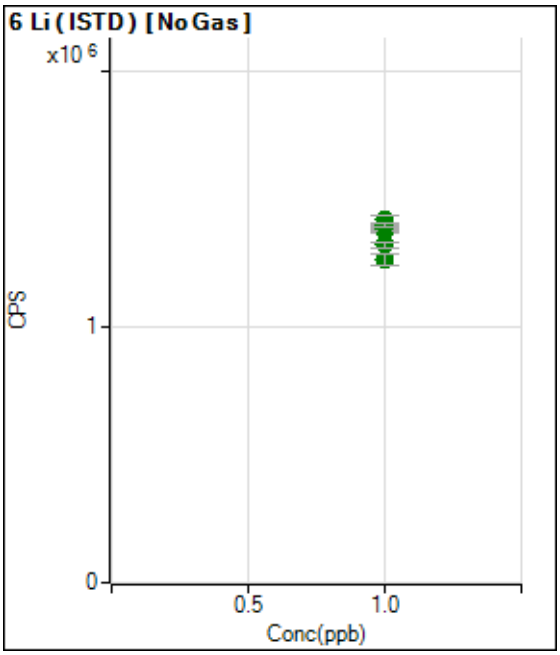
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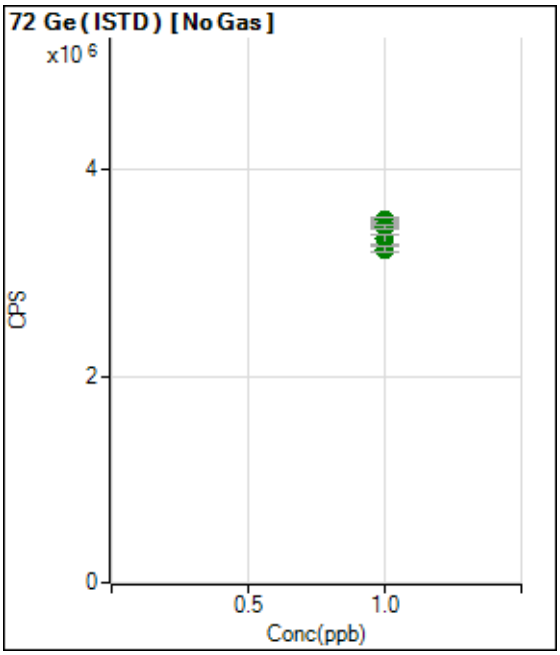
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1	☐	0.000	0.000	356.68	0.0001	P	24.6
2	☐	2.000	1.880	108502.33	0.0334	P	1.2
3	☐	5.000	4.790	274939.68	0.0850	P	1.8
4	☐	10.000	9.445	542421.19	0.1675	P	3.2
5	☐	100.000	98.285	5429242.63	1.7418	A	1.4
6	☐	200.000	200.891	10723634.84	3.5600	A	1.3

y = 0.0177 * x + 1.1033E-004
R = 0.9999
DL = 0.004597
BEC = 0.006226

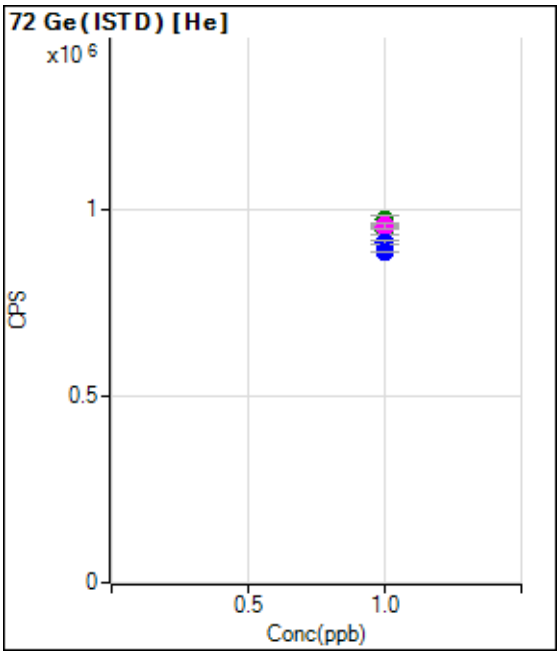
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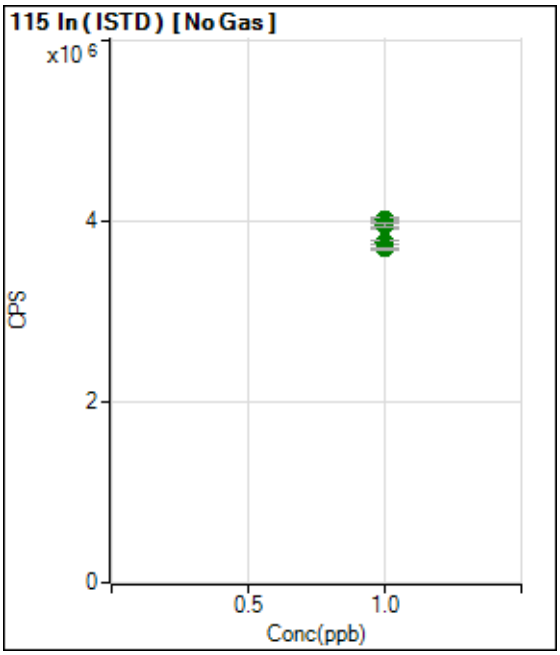
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1419944.17		A	2.6
2	☐	1.000		1378098.64		A	1.3
3	☐	1.000		1384070.97		A	1.2
4	☐	1.000		1401032.35		A	0.8
5	☐	1.000		1322683.01		A	1.6
6	☐	1.000		1266893.31		A	3.7



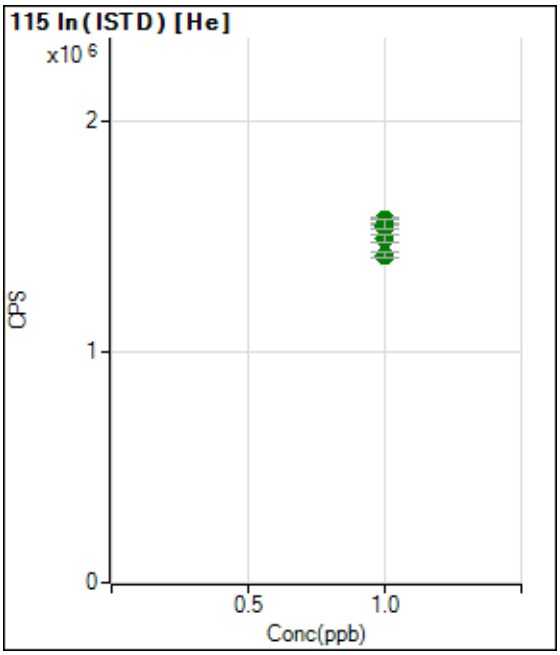
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1	☐	1.000		3501934.74		A	1.3
2	☐	1.000		3517642.13		A	1.2
3	☐	1.000		3446968.18		A	0.2
4	☐	1.000		3448584.22		A	1.3
5	☐	1.000		3333947.66		A	2.7
6	☐	1.000		3233139.12		A	1.5



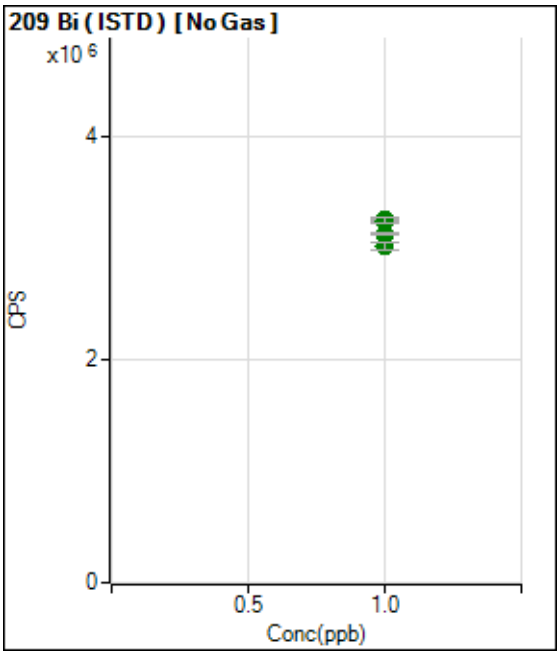
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		974889.54		A	2.0
2	☐	1.000		960428.66		M	1.2
3	☐	1.000		946993.97		A	2.7
4	☐	1.000		958443.53		M	2.1
5	☐	1.000		916467.25		P	1.1
6	☐	1.000		889581.63		P	0.3



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		4012658.13		A	0.9
2	☐	1.000		4013234.89		A	1.7
3	☐	1.000		3950438.39		A	2.1
4	☐	1.000		3949227.48		A	1.0
5	☐	1.000		3760638.30		A	0.9
6	☐	1.000		3698616.75		A	0.7



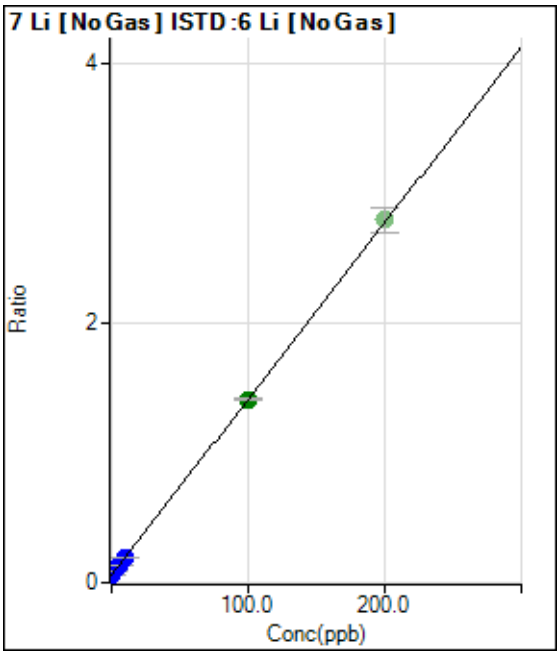
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1569149.22		A	1.4
2	☐	1.000		1558404.63		A	1.8
3	☐	1.000		1542268.99		A	1.2
4	☐	1.000		1549927.52		A	2.9
5	☐	1.000		1489990.85		A	1.9
6	☐	1.000		1417996.64		A	1.5



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		3237612.87		A	0.9
2	☐	1.000		3246951.10		A	0.8
3	☐	1.000		3235187.45		A	0.7
4	☐	1.000		3239895.06		A	1.7
5	☐	1.000		3117208.39		A	0.5
6	☐	1.000		3012536.73		A	1.9

Batch Folder: C:\Agilent\ICPMH\1\DATA\061224A.b\
Analysis File: 061224A.batch.bin
DA Date-Time: 6/12/2024 9:46:07 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

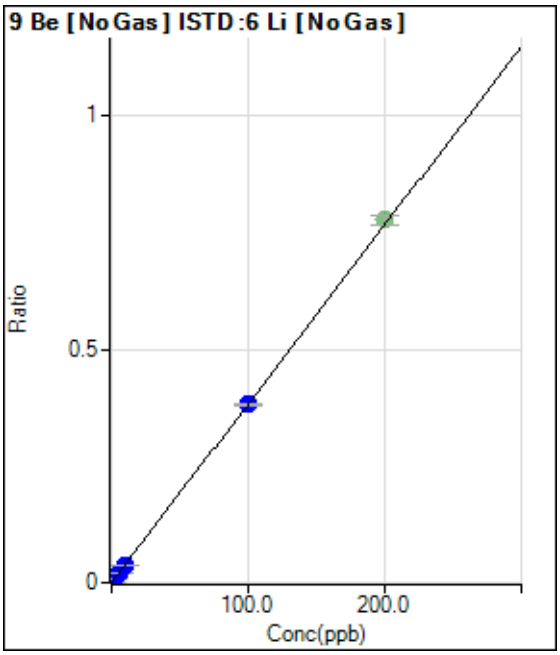
Level	Standard Data File	Sample Name	Acq. Date-Time
1	010CALB.d	CAL BLK	6/12/2024 10:39:59 AM
2	011CALS.d	2/10/200	6/12/2024 10:41:55 AM
3	012CALS.d	5/25/500	6/12/2024 10:43:52 AM
4	013CALS.d	10/50/100	6/12/2024 10:45:47 AM
5	014CALS.d	100/500/10K	6/12/2024 10:47:42 AM
6	015CALS.d	200/1000/20K	6/12/2024 10:49:30 AM



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	81177.27	0.0578	P	2.3
2	☐	2.000	1.968	119120.74	0.0845	P	1.7
3	☐	5.000	5.184	172597.58	0.1281	P	1.0
4	☐	10.000	9.765	259323.44	0.1901	P	2.9
5	☐	100.000	100.015	1848225.60	1.4127	A	0.6
6	☑	200.000		3579742.76	2.7920	A	6.8

y = 0.0135 * x + 0.0578
R = 1.0000
DL = 0.2904
BEC = 4.268

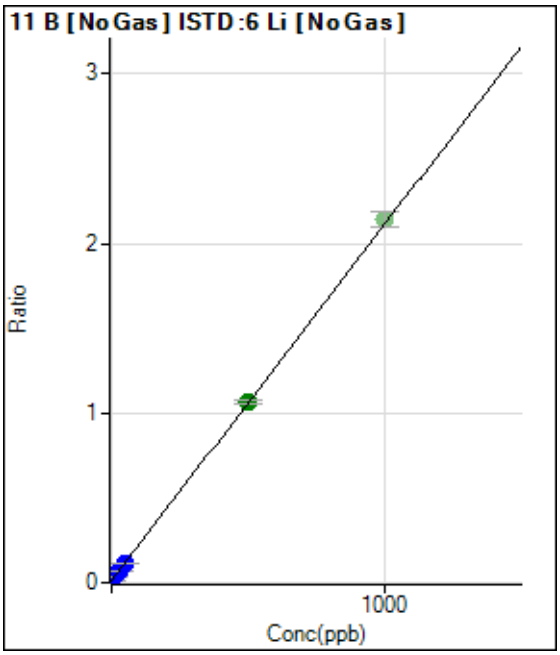
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	10.00	0.0000	P	49.7
2	☐	2.000	1.965	10610.74	0.0075	P	3.1
3	☐	5.000	4.987	25721.96	0.0191	P	3.1
4	☐	10.000	9.663	50448.41	0.0370	P	2.9
5	☐	100.000	100.035	500761.45	0.3828	P	1.0
6	☑	200.000		996921.76	0.7768	A	2.5

y = 0.0038 * x + 7.1328E-006
R = 1.0000
DL = 0.002778
BEC = 0.001864

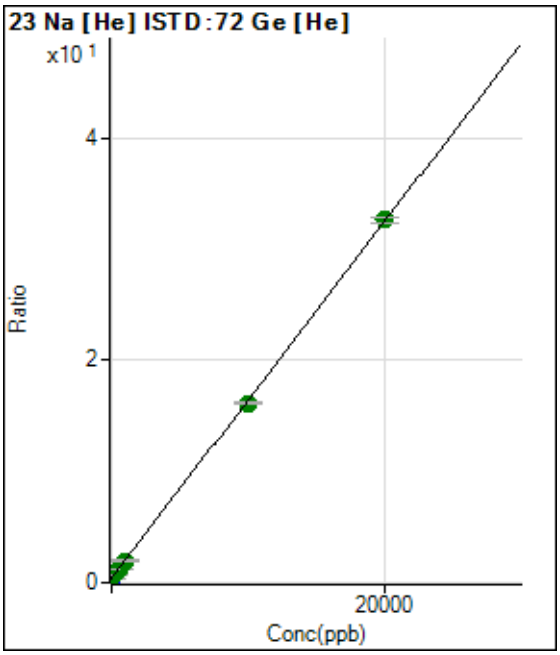
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	16461.38	0.0117	P	2.1
2	☐	10.000	9.764	45423.40	0.0322	P	1.5
3	☐	25.000	25.001	86533.22	0.0642	P	0.4
4	☐	50.000	47.867	153018.29	0.1122	P	3.7
5	☐	500.000	500.218	1388646.91	1.0616	A	2.4
6	☑	1000.000		2743055.48	2.1382	A	4.1

y = 0.0021 * x + 0.0117
R = 1.0000
DL = 0.3471
BEC = 5.587

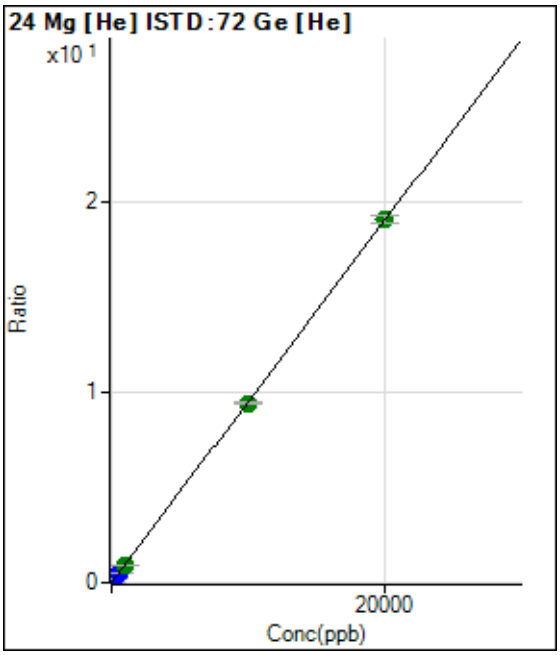
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	415041.91	0.4091	P	1.2
2	☐	200.000	200.778	745392.15	0.7307	A	0.3
3	☐	500.000	485.110	1185338.60	1.1863	A	1.9
4	☐	1000.000	982.242	1913796.33	1.9827	A	1.3
5	☐	10000.00	9805.176	15294342.27	16.1180	A	0.9
6	☐	20000.00	20098.66	30282793.72	32.6092	A	1.6

y = 0.0016 * x + 0.4091
R = 0.9999
DL = 9.06
BEC = 255.3

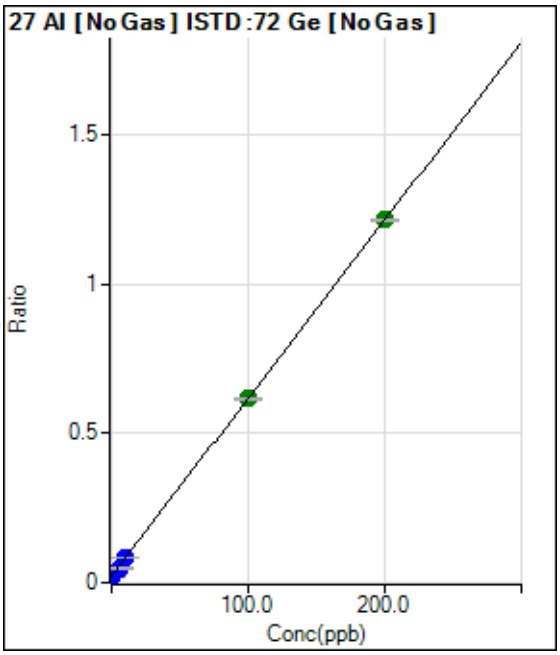
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2090.19	0.0021	P	5.0
2	☐	200.000	208.381	203682.59	0.1997	P	1.5
3	☐	500.000	518.372	493317.99	0.4937	P	2.5
4	☐	1000.000	998.856	916533.09	0.9495	A	0.8
5	☐	10000.00	9907.821	8919102.37	9.3994	A	1.0
6	☐	20000.00	20045.60	17658463.07	19.0149	A	2.0

y = 9.4848E-004 * x + 0.0021
R = 1.0000
DL = 0.329
BEC = 2.172

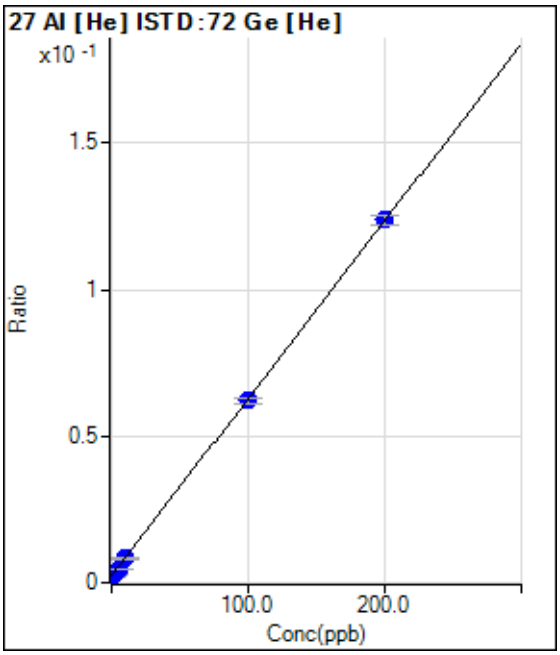
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	80465.61	0.0221	P	2.8
2	☐	2.000	1.712	116874.50	0.0323	P	0.7
3	☐	5.000	4.332	171734.99	0.0479	P	1.9
4	☐	10.000	10.410	292970.07	0.0841	P	1.2
5	☐	100.000	99.553	2127172.88	0.6151	A	1.1
6	☐	200.000	200.223	4103420.56	1.2147	A	0.7

y = 0.0060 * x + 0.0221
R = 1.0000
DL = 0.3119
BEC = 3.708

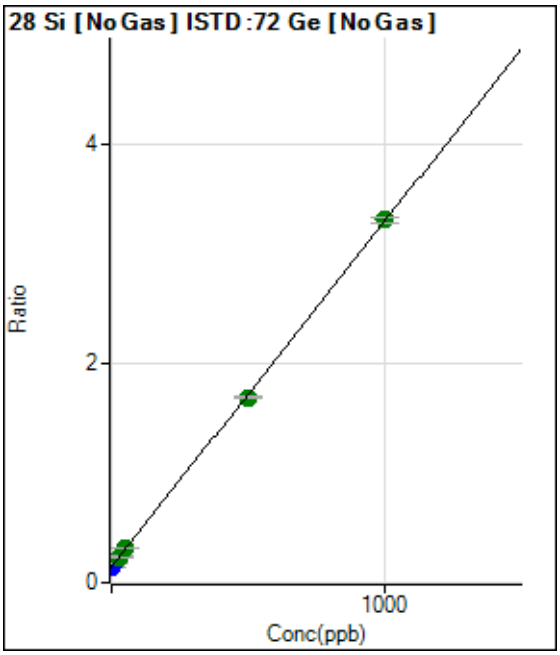
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2380.25	0.0023	P	5.1
2	☐	2.000	0.934	2970.39	0.0029	P	5.4
3	☐	5.000	3.827	4657.54	0.0047	P	2.1
4	☐	10.000	9.761	7965.76	0.0083	P	2.4
5	☐	100.000	98.629	58851.60	0.0620	P	3.8
6	☐	200.000	200.737	114955.96	0.1238	P	2.7

y = 6.0498E-004 * x + 0.0023
R = 1.0000
DL = 0.5965
BEC = 3.878

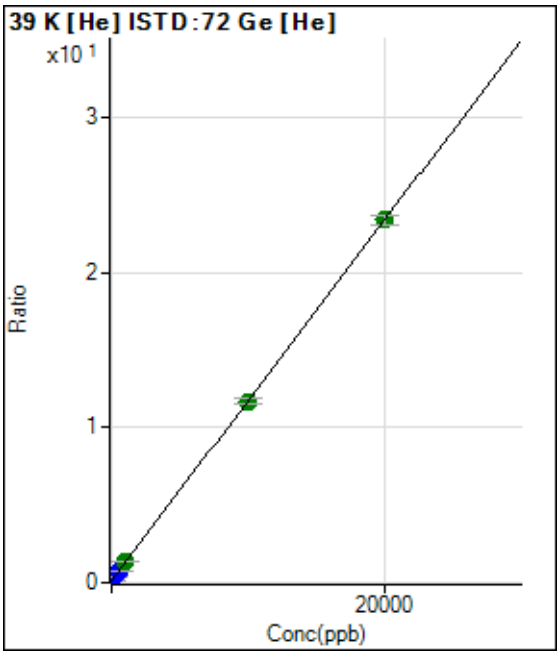
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	533592.86	0.1465	P	1.3
2	☐	10.000	9.183	634907.88	0.1754	P	0.5
3	☐	25.000	28.475	846847.82	0.2361	A	1.6
4	☐	50.000	55.351	1117588.42	0.3208	A	1.1
5	☐	500.000	489.794	5842025.33	1.6893	A	1.3
6	☐	1000.000	1004.757	11184969.00	3.3113	A	1.6

y = 0.0031 * x + 0.1465
R = 0.9999
DL = 1.809
BEC = 46.49

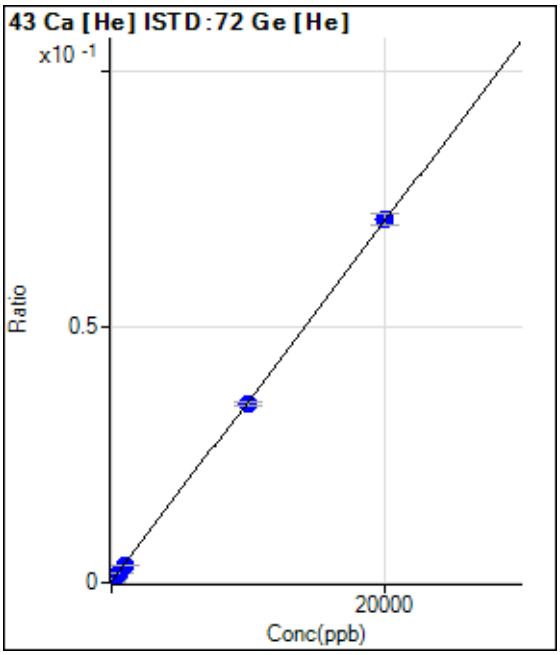
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	144189.43	0.1421	P	0.3
2	☐	200.000	202.590	384732.05	0.3772	P	1.7
3	☐	500.000	513.778	737741.29	0.7384	P	3.4
4	☐	1000.000	1025.473	1286272.27	1.3323	A	1.2
5	☐	10000.00	9950.370	11094047.75	11.6906	A	3.0
6	☐	20000.00	20023.17	21711610.51	23.3812	A	2.5

y = 0.0012 * x + 0.1421
R = 1.0000
DL = 1.092
BEC = 122.4

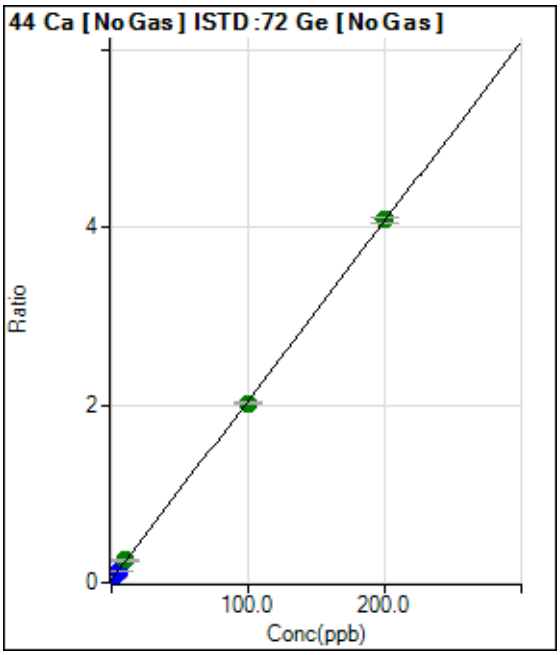
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	226.67	0.0002	P	41.9
2	☐	200.000	171.386	843.37	0.0008	P	3.7
3	☐	500.000	502.471	1990.18	0.0020	P	6.8
4	☐	1000.000	913.303	3317.14	0.0034	P	1.3
5	☐	10000.00	9853.743	33106.78	0.0349	P	1.4
6	☐	20000.00	20077.68	65797.44	0.0709	P	3.0

y = 3.5181E-006 * x + 2.2350E-004
R = 1.0000
DL = 79.81
BEC = 63.53

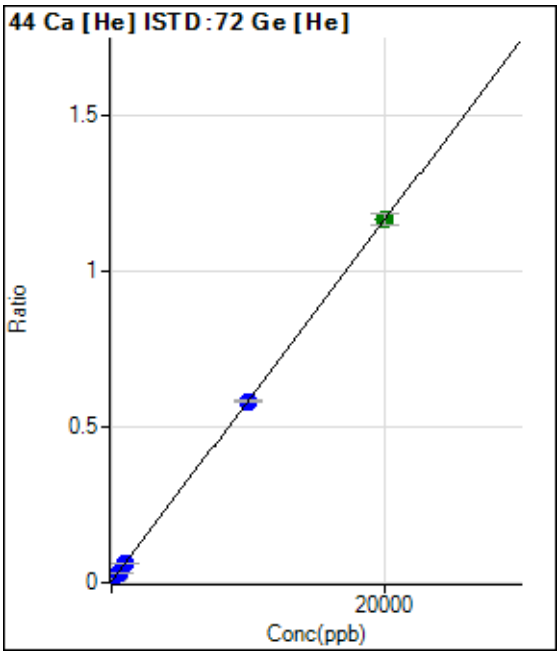
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	122558.28	0.0336	P	0.6
2	☐	2.000	1.896	260416.11	0.0719	P	0.6
3	☐	5.000	4.969	480523.60	0.1340	P	1.8
4	☐	10.000	10.751	873532.54	0.2508	A	2.2
5	☐	100.000	98.476	6994482.81	2.0225	A	1.4
6	☐	200.000	200.726	13807274.38	4.0876	A	1.6

y = 0.0202 * x + 0.0336
R = 0.9999
DL = 0.03239
BEC = 1.665

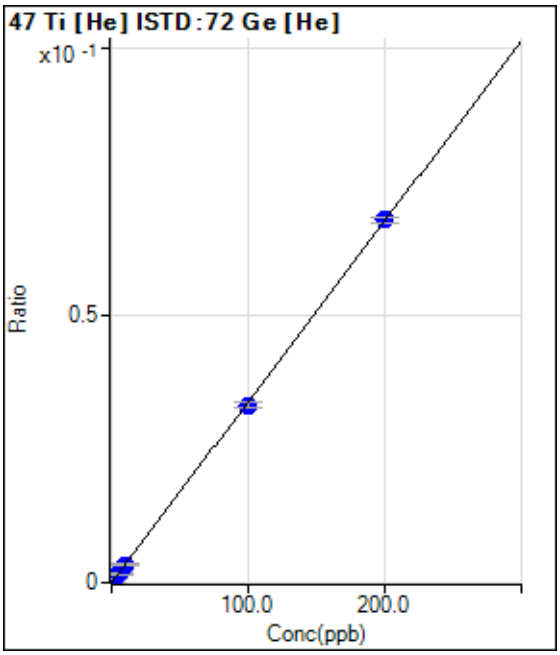
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4767.56	0.0047	P	2.1
2	☐	200.000	185.533	15775.91	0.0155	P	2.0
3	☐	500.000	478.569	32451.93	0.0325	P	2.2
4	☐	1000.000	977.016	59287.65	0.0614	P	1.9
5	☐	10000.00	9966.384	553411.06	0.5832	P	0.6
6	☐	20000.00	20018.63	1083349.90	1.1667	A	3.3

y = 5.8047E-005 * x + 0.0047
R = 1.0000
DL = 5.071
BEC = 80.96

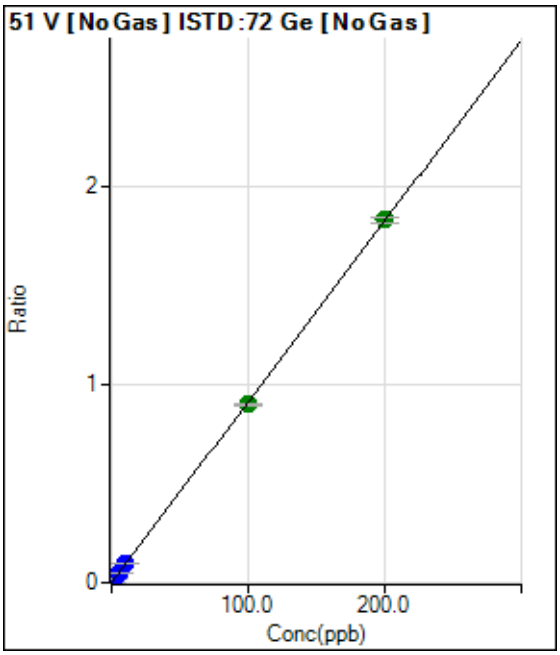
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	36.67	0.0000	P	16.2
2	☐	2.000	1.756	643.36	0.0006	P	19.0
3	☐	5.000	4.811	1660.14	0.0017	P	15.9
4	☐	10.000	9.904	3263.78	0.0034	P	2.8
5	☐	100.000	98.273	31539.90	0.0332	P	3.5
6	☐	200.000	200.875	63048.23	0.0679	P	1.6

y = 3.3782E-004 * x + 3.6157E-005
R = 0.9999
DL = 0.05197
BEC = 0.107

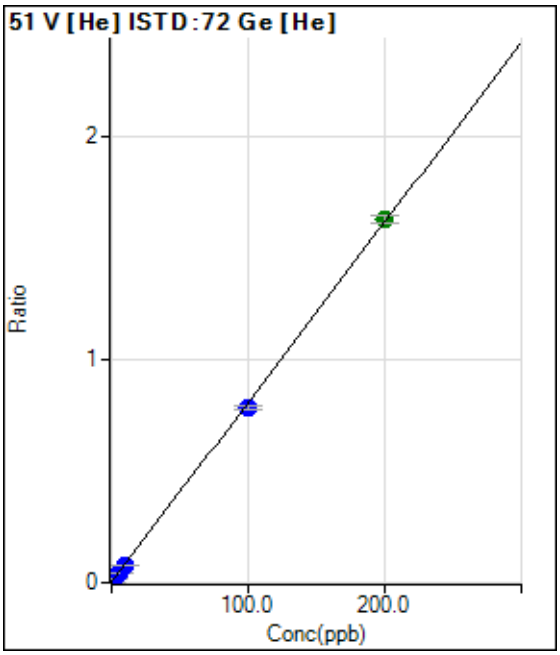
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	-1226.17	-0.0003	P	-114.3
2	☐	2.000	1.955	63210.34	0.0175	P	4.2
3	☐	5.000	5.066	164209.95	0.0458	P	4.5
4	☐	10.000	10.191	322100.85	0.0925	P	1.6
5	☐	100.000	98.507	3100718.75	0.8966	A	1.6
6	☐	200.000	200.736	6172676.73	1.8275	A	1.9

y = 0.0091 * x - 3.3653E-004
R = 1.0000
DL = 0.1267
BEC = -0.03696

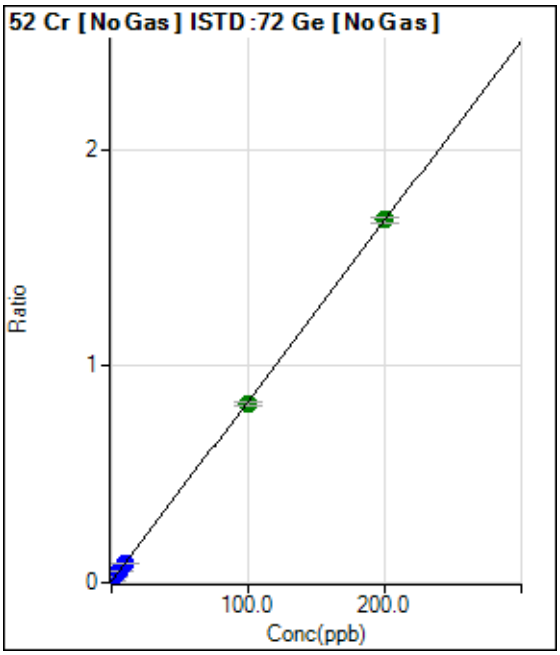
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2543.71	0.0025	P	11.4
2	☐	2.000	1.848	17757.27	0.0174	P	3.9
3	☐	5.000	4.879	41810.45	0.0419	P	4.6
4	☐	10.000	9.574	77004.91	0.0797	P	5.2
5	☐	100.000	97.310	747073.83	0.7873	P	2.1
6	☐	200.000	201.371	1510333.21	1.6265	A	2.2

y = 0.0081 * x + 0.0025
R = 0.9999
DL = 0.1064
BEC = 0.3109

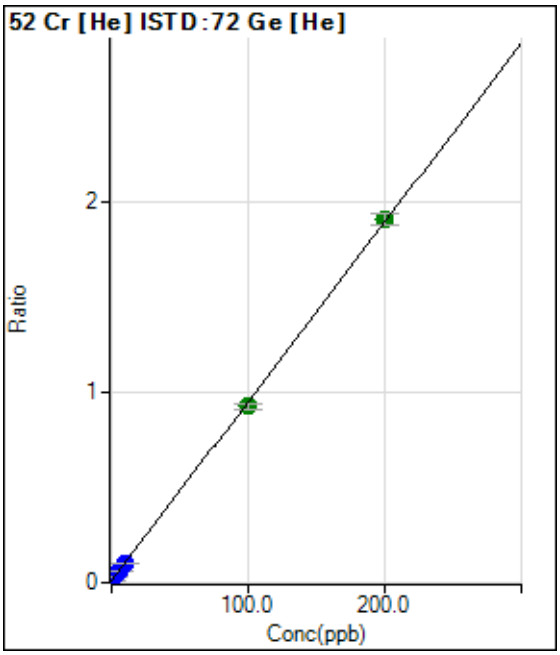
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	20786.02	0.0057	P	2.6
2	☐	2.000	2.077	83299.23	0.0230	P	1.1
3	☐	5.000	5.239	176967.89	0.0493	P	0.4
4	☐	10.000	10.391	321425.57	0.0923	P	1.4
5	☐	100.000	98.732	2863852.36	0.8281	A	1.9
6	☐	200.000	200.608	5663823.46	1.6768	A	1.6

y = 0.0083 * x + 0.0057
R = 1.0000
DL = 0.05299
BEC = 0.685

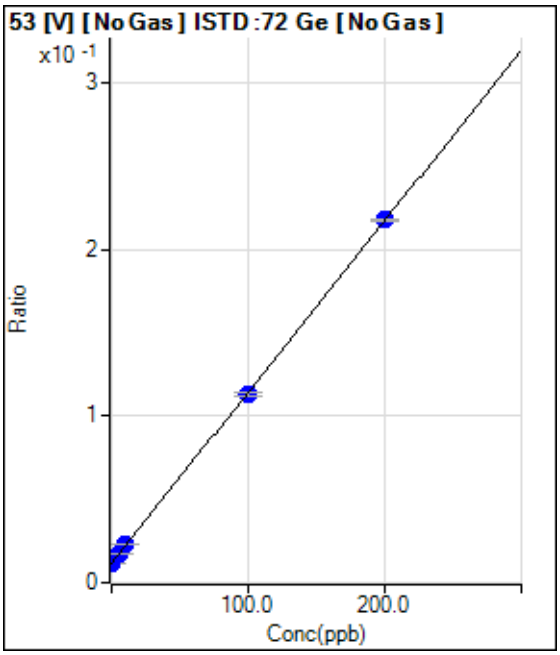
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	10087.23	0.0099	P	4.4
2	☐	2.000	2.078	30123.35	0.0295	P	0.5
3	☐	5.000	4.927	56342.85	0.0564	P	2.5
4	☐	10.000	9.797	98761.58	0.1023	P	1.7
5	☐	100.000	97.213	879073.66	0.9263	A	4.0
6	☐	200.000	201.405	1772172.47	1.9085	A	3.0

y = 0.0094 * x + 0.0099
R = 0.9999
DL = 0.1394
BEC = 1.055

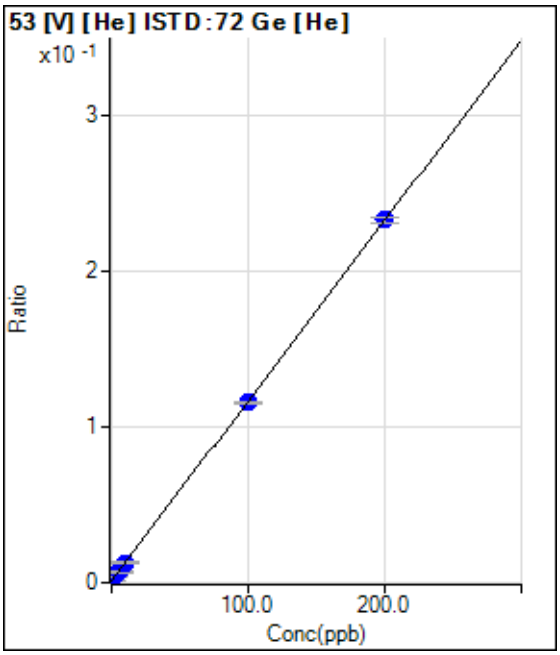
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	42763.91	0.0117	P	1.9
2	☐	2.000	2.914	53327.46	0.0147	P	0.5
3	☐	5.000	5.721	63172.48	0.0176	P	2.2
4	☐	10.000	11.090	80570.25	0.0231	P	1.5
5	☐	100.000	98.428	390191.19	0.1128	P	2.1
6	☐	200.000	200.705	735992.90	0.2179	P	0.8

y = 0.0010 * x + 0.0117
R = 0.9999
DL = 0.6361
BEC = 11.43

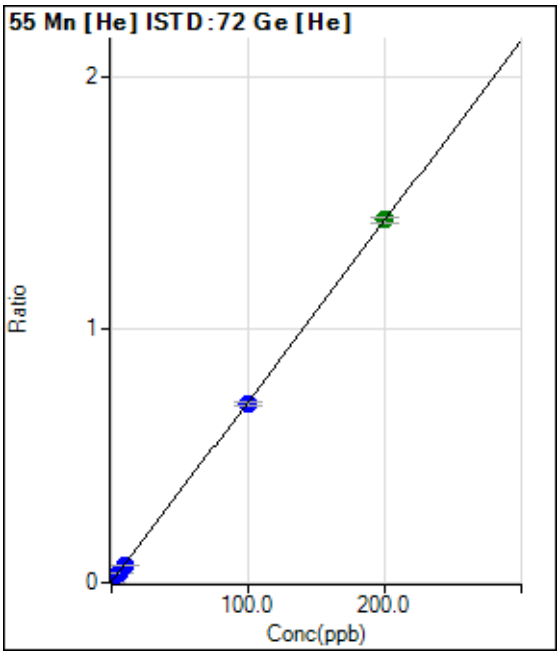
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1160.07	0.0011	P	9.2
2	☐	2.000	2.235	3800.60	0.0037	P	6.6
3	☐	5.000	4.889	6785.12	0.0068	P	1.2
4	☐	10.000	9.844	12068.84	0.0125	P	7.3
5	☐	100.000	99.070	109650.38	0.1156	P	1.0
6	☐	200.000	200.473	216059.41	0.2327	P	1.7

y = 0.0012 * x + 0.0011
R = 1.0000
DL = 0.2748
BEC = 0.9902

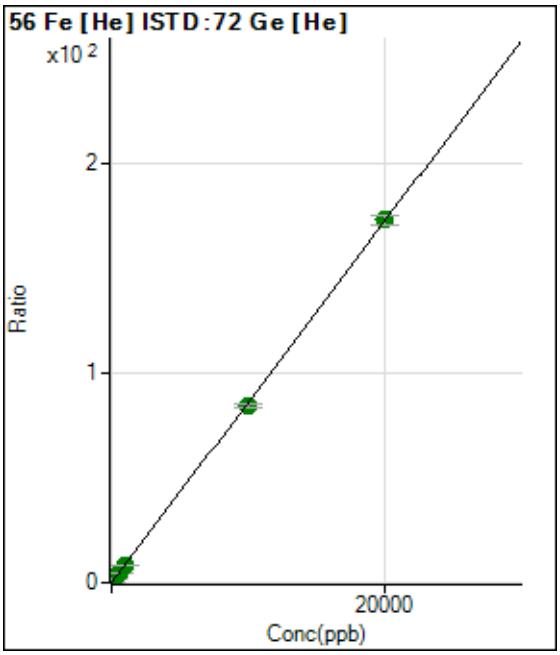
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2273.56	0.0022	P	8.2
2	☐	2.000	2.592	21186.90	0.0208	P	9.8
3	☐	5.000	5.059	38350.93	0.0384	P	1.9
4	☐	10.000	9.728	69242.03	0.0717	P	0.7
5	☐	100.000	98.992	673120.62	0.7093	P	1.7
6	☐	200.000	200.510	1332101.54	1.4345	A	1.3

y = 0.0071 * x + 0.0022
R = 1.0000
DL = 0.07726
BEC = 0.3136

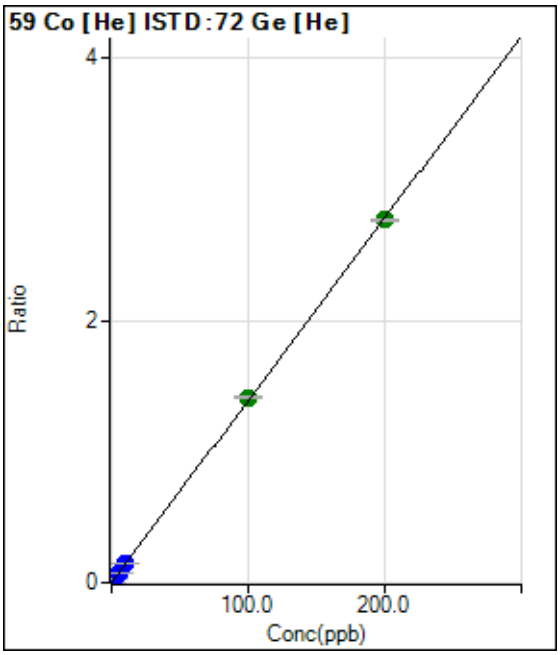
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	31767.25	0.0313	P	1.2
2	☐	200.000	204.716	1826819.09	1.7911	A	1.9
3	☐	500.000	492.973	4266068.37	4.2691	A	1.8
4	☐	1000.000	961.192	8006526.76	8.2942	A	0.5
5	☐	10000.00	9803.895	80003575.47	84.3101	A	1.6
6	☐	20000.00	20100.12	160487494.2	172.821	A	2.5

y = 0.0086 * x + 0.0313
R = 0.9999
DL = 0.1274
BEC = 3.642

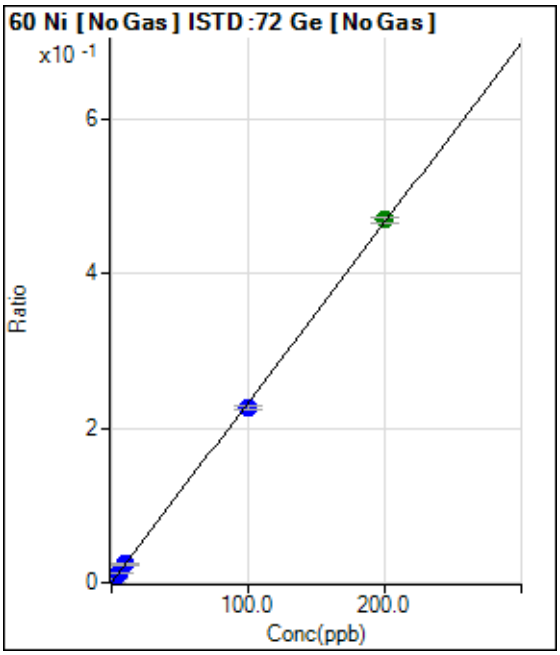
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	176.67	0.0002	P	13.3
2	☐	2.000	2.017	28740.61	0.0282	P	2.3
3	☐	5.000	5.007	69624.54	0.0697	P	0.7
4	☐	10.000	10.070	135135.37	0.1400	P	1.0
5	☐	100.000	101.609	1338571.39	1.4107	A	0.8
6	☐	200.000	199.192	2568188.24	2.7653	A	0.5

y = 0.0139 * x + 1.7417E-004
R = 1.0000
DL = 0.005023
BEC = 0.01255

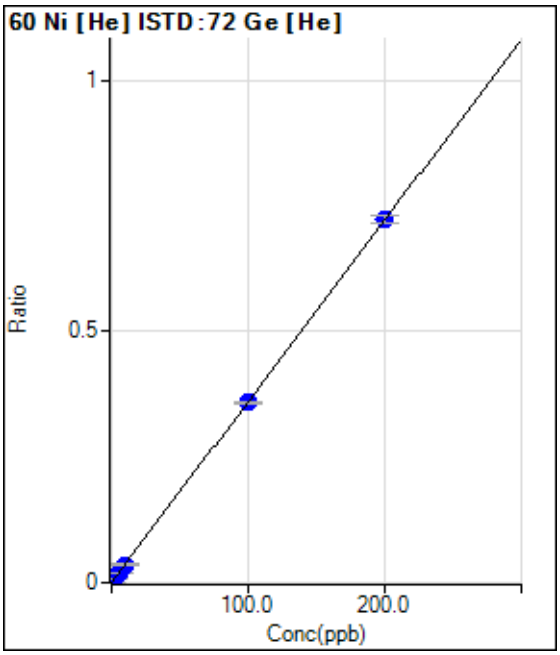
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1416.76	0.0004	P	4.3
2	☐	2.000	2.009	18356.01	0.0051	P	2.3
3	☐	5.000	5.074	43797.51	0.0122	P	2.5
4	☐	10.000	10.086	83233.58	0.0239	P	2.0
5	☐	100.000	96.900	782277.88	0.2262	P	1.8
6	☐	200.000	201.544	1587996.69	0.4701	A	1.8

y = 0.0023 * x + 3.8893E-004
R = 0.9998
DL = 0.02162
BEC = 0.1669

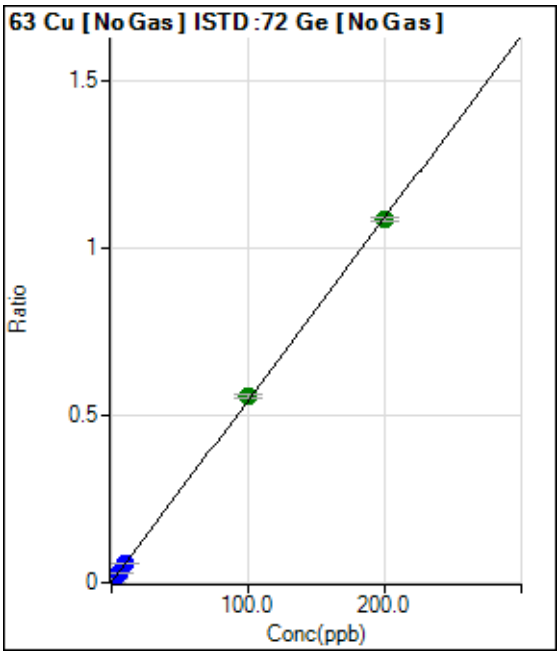
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	503.35	0.0005	P	21.3
2	☐	2.000	2.118	8282.65	0.0081	P	5.0
3	☐	5.000	4.972	18375.96	0.0184	P	3.6
4	☐	10.000	9.941	35028.72	0.0363	P	1.7
5	☐	100.000	99.349	339790.79	0.3581	P	0.5
6	☐	200.000	200.328	670037.41	0.7216	P	2.3

y = 0.0036 * x + 4.9576E-004
R = 1.0000
DL = 0.08792
BEC = 0.1377

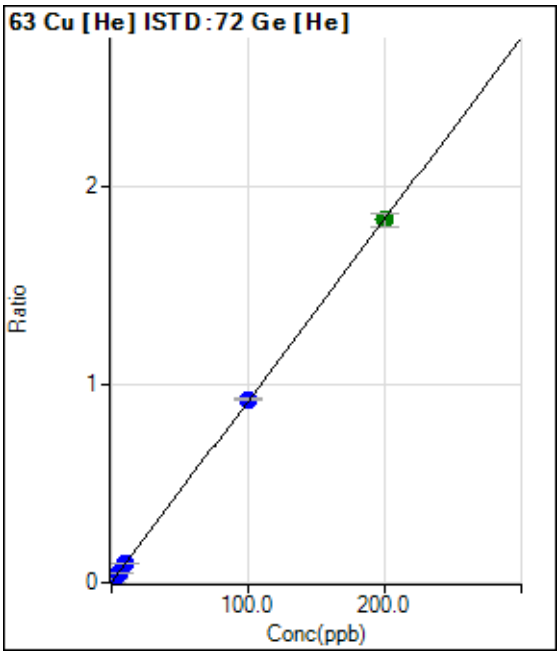
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3407.17	0.0009	P	8.5
2	☐	2.000	2.047	43760.68	0.0121	P	1.6
3	☐	5.000	5.022	101461.08	0.0283	P	2.2
4	☐	10.000	10.190	196634.55	0.0564	P	1.6
5	☐	100.000	102.138	1927148.31	0.5573	A	2.9
6	☐	200.000	198.920	3663417.45	1.0845	A	1.0

y = 0.0054 * x + 9.3583E-004
R = 0.9999
DL = 0.04401
BEC = 0.1718

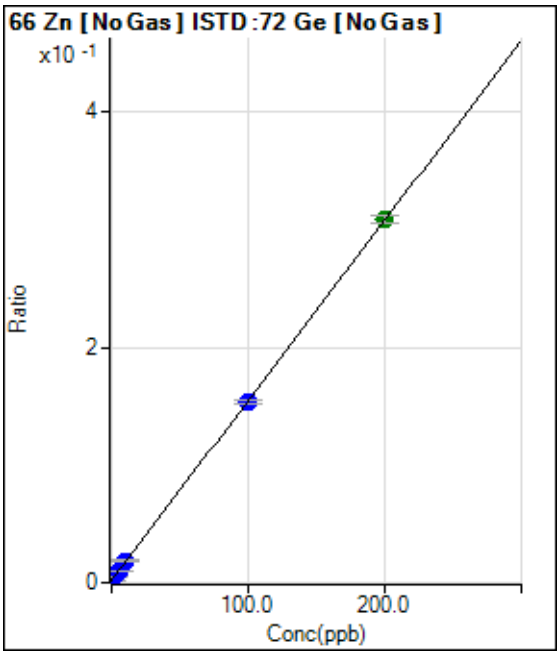
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1533.45	0.0015	P	7.4
2	☐	2.000	1.981	20078.46	0.0197	P	0.8
3	☐	5.000	5.037	47687.22	0.0477	P	2.9
4	☐	10.000	10.012	90144.95	0.0934	P	0.5
5	☐	100.000	100.589	877295.14	0.9245	P	1.2
6	☐	200.000	199.704	1702863.88	1.8340	A	3.4

y = 0.0092 * x + 0.0015
R = 1.0000
DL = 0.03643
BEC = 0.1647

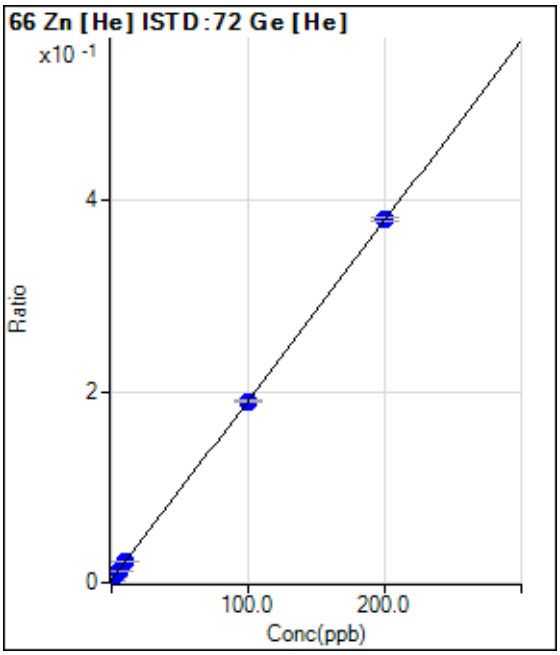
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	7048.64	0.0019	P	2.6
2	☐	2.000	2.460	20609.31	0.0057	P	3.0
3	☐	5.000	5.076	34744.97	0.0097	P	4.3
4	☐	10.000	10.932	64925.47	0.0186	P	2.0
5	☐	100.000	99.178	530668.25	0.1535	P	1.9
6	☐	200.000	200.358	1040442.28	0.3080	A	2.2

y = 0.0015 * x + 0.0019
R = 1.0000
DL = 0.09962
BEC = 1.266

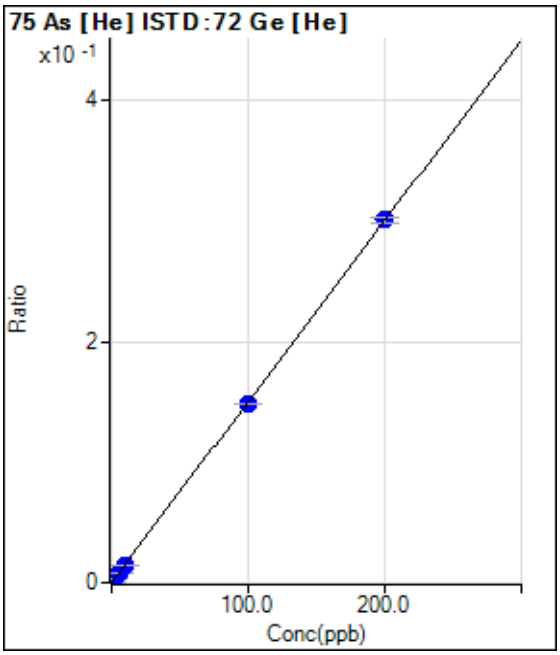
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2556.96	0.0025	P	0.4
2	☐	2.000	2.308	7005.26	0.0069	P	1.6
3	☐	5.000	4.811	11571.79	0.0116	P	1.8
4	☐	10.000	10.621	21741.04	0.0225	P	1.1
5	☐	100.000	99.251	179754.17	0.1894	P	1.0
6	☐	200.000	200.345	352731.58	0.3798	P	1.0

y = 0.0019 * x + 0.0025
R = 1.0000
DL = 0.01457
BEC = 1.338

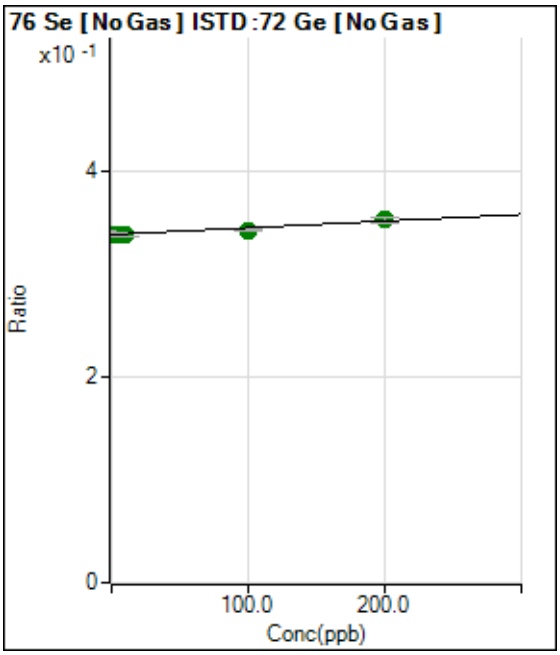
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	216.67	0.0002	P	6.4
2	☐	2.000	1.999	3277.08	0.0032	P	6.7
3	☐	5.000	4.872	7512.13	0.0075	P	1.1
4	☐	10.000	9.657	14186.39	0.0147	P	2.6
5	☐	100.000	98.762	140688.93	0.1483	P	0.9
6	☐	200.000	200.640	279515.29	0.3010	P	1.8

y = 0.0015 * x + 2.1352E-004
R = 1.0000
DL = 0.02727
BEC = 0.1424

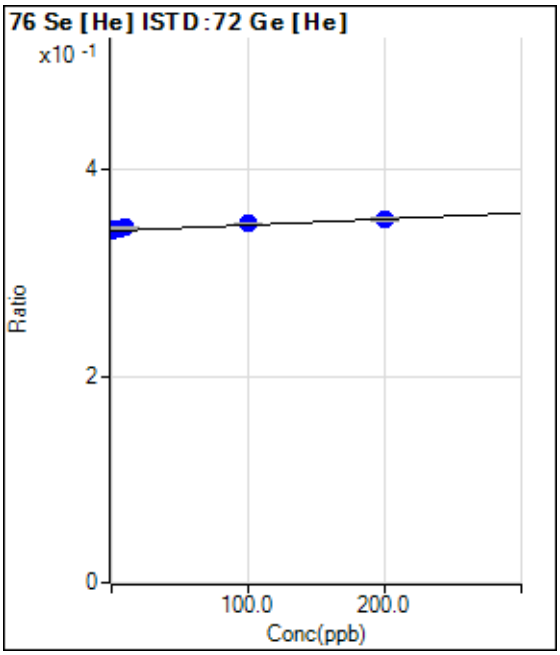
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1230475.68	0.3377	A	0.4
2	☐	2.000	-8.551	1220437.51	0.3371	A	0.9
3	☐	5.000	11.843	1213720.29	0.3385	A	1.9
4	☐	10.000	-10.639	1174067.51	0.3370	A	1.2
5	☐	100.000	68.803	1183488.32	0.3422	A	0.5
6	☐	200.000	216.565	1188486.52	0.3519	A	1.8

y = 6.5479E-005 * x + 0.3377
R = 0.9813
DL = 57.9
BEC = 5157

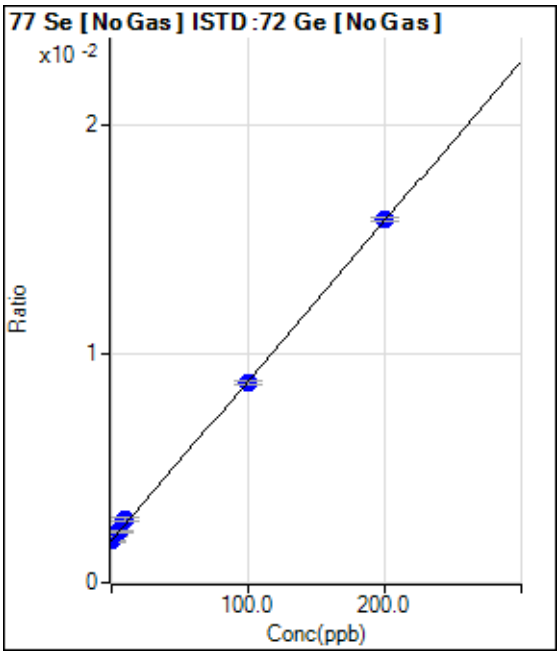
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	345405.77	0.3404	P	1.0
2	☐	2.000	23.651	348616.06	0.3418	P	1.4
3	☐	5.000	40.295	342528.23	0.3428	P	1.2
4	☐	10.000	52.646	331615.96	0.3435	P	0.8
5	☐	100.000	124.599	329915.58	0.3477	P	0.6
6	☐	200.000	184.469	326116.34	0.3512	P	0.9

y = 5.8199E-005 * x + 0.3404
R = 0.9703
DL = 173.5
BEC = 5850

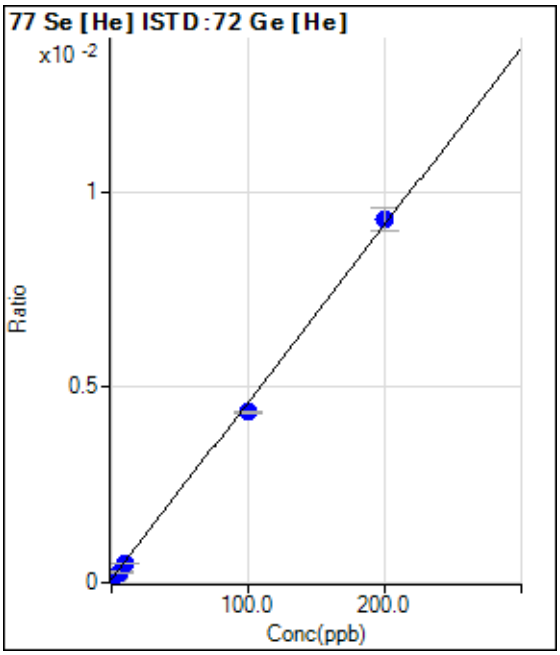
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6718.46	0.0018	P	4.3
2	☐	2.000	3.258	7498.93	0.0021	P	4.8
3	☐	5.000	5.607	8019.18	0.0022	P	3.6
4	☐	10.000	13.157	9626.97	0.0028	P	6.2
5	☐	100.000	98.348	30143.96	0.0087	P	2.2
6	☐	200.000	200.640	53587.03	0.0159	P	1.1

y = 6.9877E-005 * x + 0.0018
R = 0.9998
DL = 3.375
BEC = 26.39

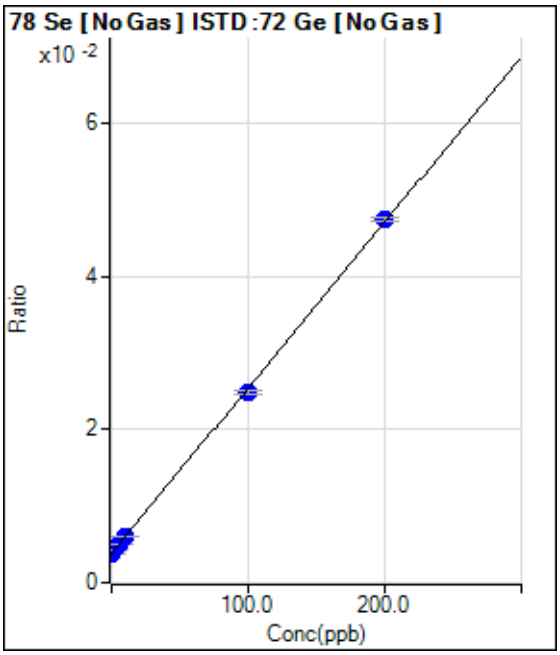
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	90.00	0.0001	P	34.0
2	☐	2.000	1.152	143.34	0.0001	P	39.4
3	☐	5.000	3.929	266.67	0.0003	P	28.6
4	☐	10.000	8.859	473.35	0.0005	P	8.7
5	☐	100.000	94.355	4144.06	0.0044	P	1.3
6	☐	200.000	202.915	8626.26	0.0093	P	6.2

y = 4.5343E-005 * x + 8.8844E-005
R = 0.9995
DL = 2.001
BEC = 1.959

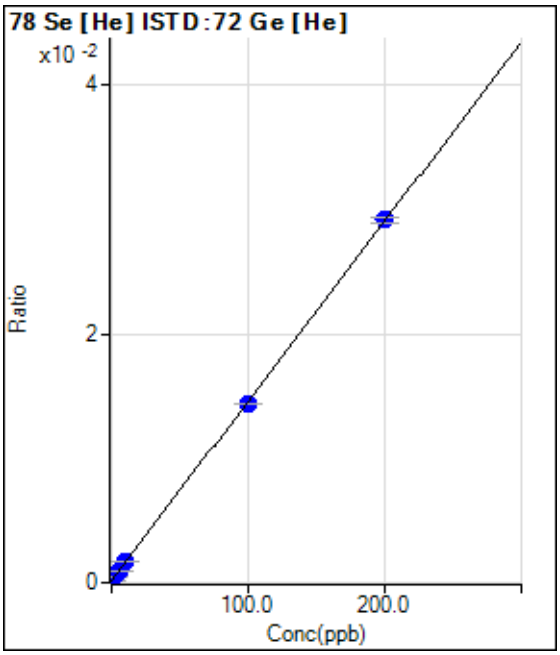
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13967.48	0.0038	P	2.3
2	☐	2.000	1.673	15182.12	0.0042	P	1.9
3	☐	5.000	5.787	18225.90	0.0051	P	0.6
4	☐	10.000	10.199	21026.73	0.0060	P	1.2
5	☐	100.000	96.991	85714.96	0.0248	P	1.7
6	☐	200.000	201.478	159969.10	0.0474	P	1.0

y = 2.1603E-004 * x + 0.0038
R = 0.9998
DL = 1.228
BEC = 17.74

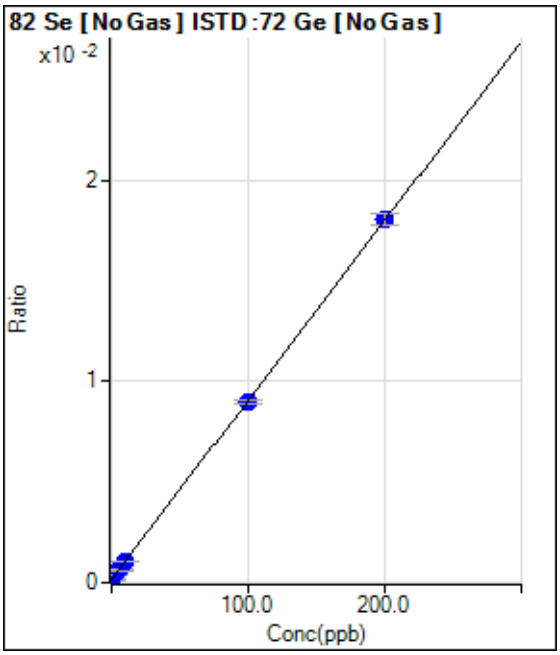
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	182.67	0.0002	P	8.6
2	☐	2.000	1.869	458.68	0.0004	P	7.1
3	☐	5.000	4.994	900.03	0.0009	P	8.5
4	☐	10.000	10.130	1584.76	0.0016	P	1.8
5	☐	100.000	98.154	13607.56	0.0143	P	0.4
6	☐	200.000	200.918	27085.11	0.0292	P	1.4

y = 1.4427E-004 * x + 1.7996E-004
R = 0.9999
DL = 0.323
BEC = 1.247

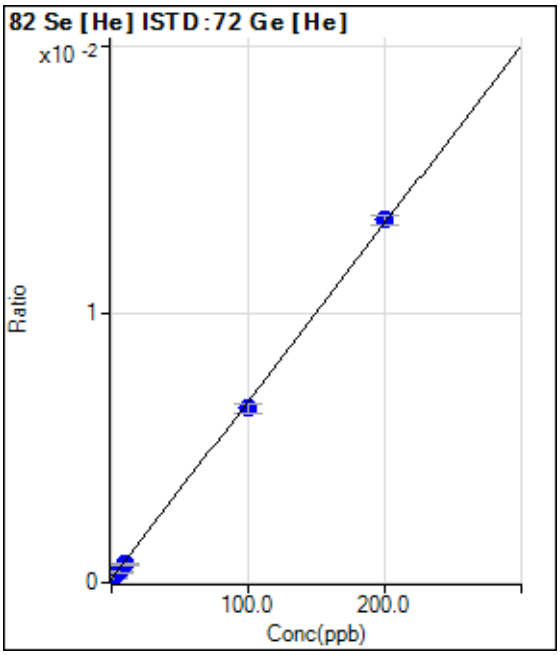
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	580.02	0.0002	P	23.6
2	☐	2.000	2.454	1366.76	0.0004	P	1.0
3	☐	5.000	5.555	2343.59	0.0007	P	10.3
4	☐	10.000	10.042	3667.24	0.0011	P	8.5
5	☐	100.000	98.718	30942.77	0.0089	P	2.5
6	☐	200.000	200.620	60864.89	0.0180	P	3.1

y = 8.9030E-005 * x + 1.5903E-004
R = 1.0000
DL = 1.262
BEC = 1.786

Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	143.33	0.0001	P	20.7
2	☐	2.000	0.884	203.34	0.0002	P	38.2
3	☐	5.000	3.966	403.35	0.0004	P	6.8
4	☐	10.000	8.187	660.03	0.0007	P	17.3
5	☐	100.000	96.147	6168.19	0.0065	P	5.6
6	☐	200.000	202.054	12539.45	0.0135	P	2.8

y = 6.6129E-005 * x + 1.4112E-004

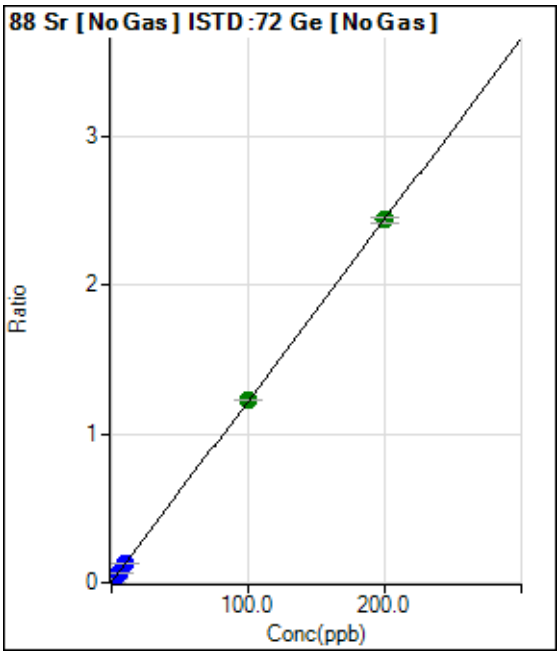
R = 0.9998

DL = 1.322

BEC = 2.134

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	12883.08	0.0035	P	1.0
2	☐	2.000	1.983	100173.31	0.0277	P	0.5
3	☐	5.000	5.030	232230.87	0.0648	P	1.1
4	☐	10.000	9.934	433562.35	0.1245	P	1.4
5	☐	100.000	100.257	4232954.21	1.2239	A	0.2
6	☐	200.000	199.874	8230072.79	2.4365	A	1.5

y = 0.0122 * x + 0.0035

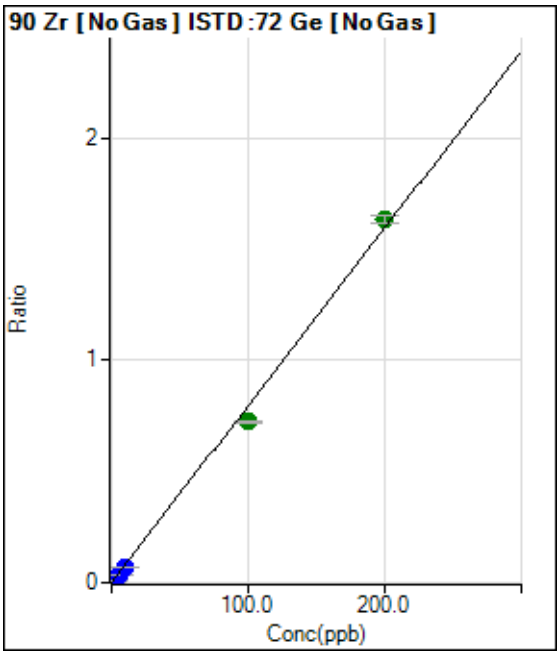
R = 1.0000

DL = 0.008804

BEC = 0.2905

Weight: <None>

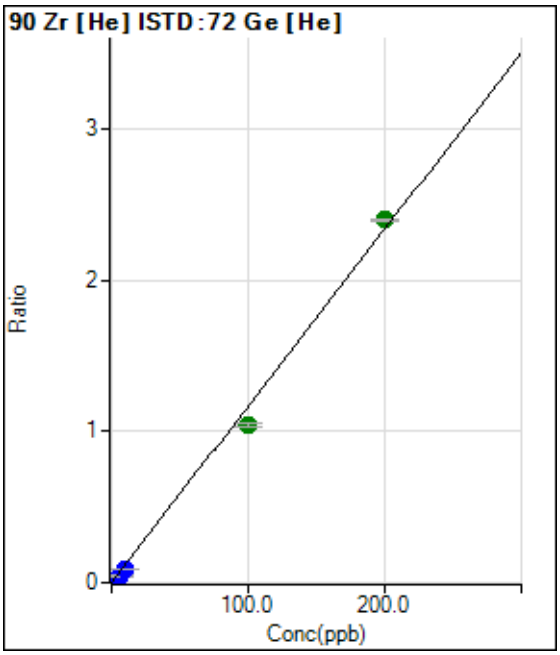
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1716.81	0.0005	P	5.2
2	☐	2.000	1.508	45196.68	0.0125	P	1.4
3	☐	5.000	3.974	115214.99	0.0321	P	1.0
4	☐	10.000	8.322	232585.92	0.0668	P	0.2
5	☐	100.000	90.653	2498730.12	0.7225	A	1.4
6	☐	200.000	204.788	5511615.13	1.6316	A	2.3

y = 0.0080 * x + 4.7090E-004
R = 0.9986
DL = 0.009243
BEC = 0.05912

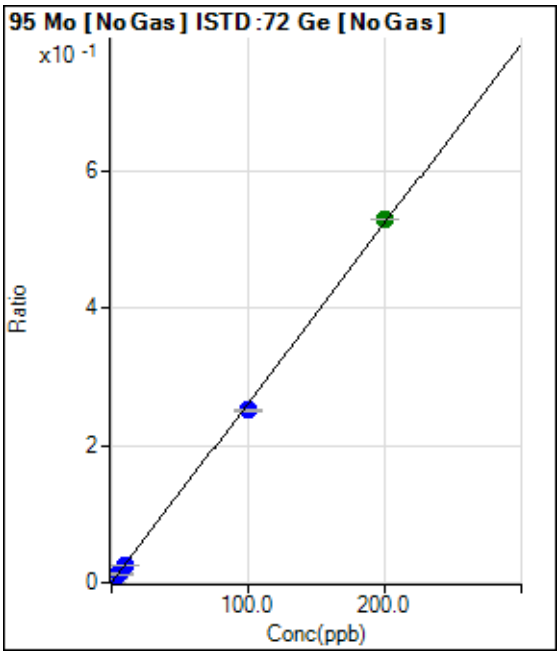
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1143.41	0.0011	P	4.0
2	☐	2.000	1.404	17888.98	0.0175	P	2.3
3	☐	5.000	3.712	44474.25	0.0445	P	3.6
4	☐	10.000	7.761	88676.52	0.0918	P	0.9
5	☐	100.000	89.480	993439.80	1.0470	A	1.8
6	☐	200.000	205.410	2230822.26	2.4021	A	0.4

y = 0.0117 * x + 0.0011
R = 0.9982
DL = 0.01163
BEC = 0.0964

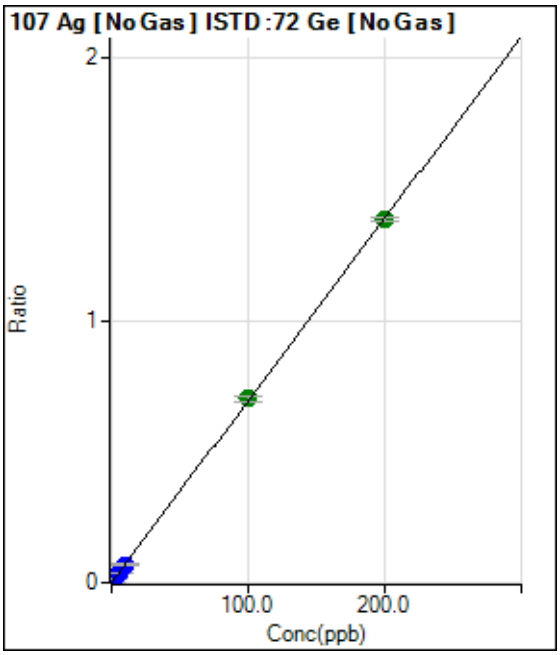
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	220.00	0.0001	P	36.0
2	☐	2.000	1.954	18730.18	0.0052	P	2.3
3	☐	5.000	4.807	45334.12	0.0126	P	2.6
4	☐	10.000	9.533	87137.41	0.0250	P	0.1
5	☐	100.000	95.985	869008.19	0.2513	P	1.4
6	☐	200.000	202.036	1786460.96	0.5288	A	0.1

y = 0.0026 * x + 6.0436E-005
R = 0.9997
DL = 0.02493
BEC = 0.02309

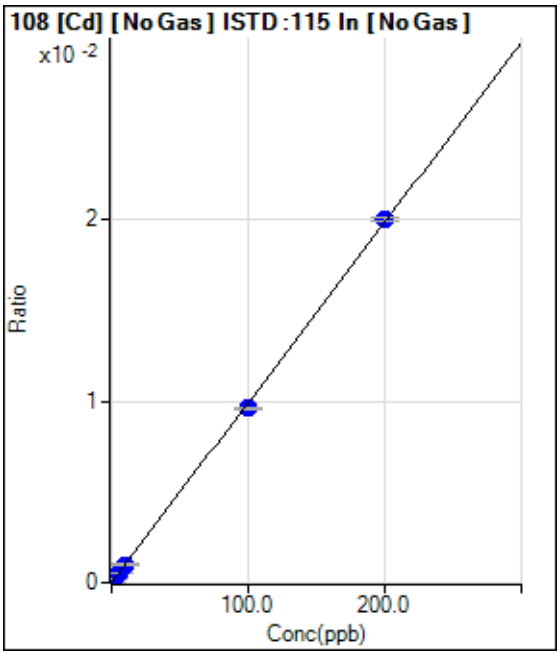
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	883.38	0.0002	P	8.2
2	☐	2.000	2.051	52417.52	0.0145	P	3.0
3	☐	5.000	5.030	126126.39	0.0352	P	1.7
4	☐	10.000	9.998	242667.00	0.0697	P	1.2
5	☐	100.000	101.289	2432532.88	0.7035	A	3.4
6	☐	200.000	199.354	4676170.14	1.3843	A	0.9

y = 0.0069 * x + 2.4230E-004
R = 1.0000
DL = 0.008609
BEC = 0.0349

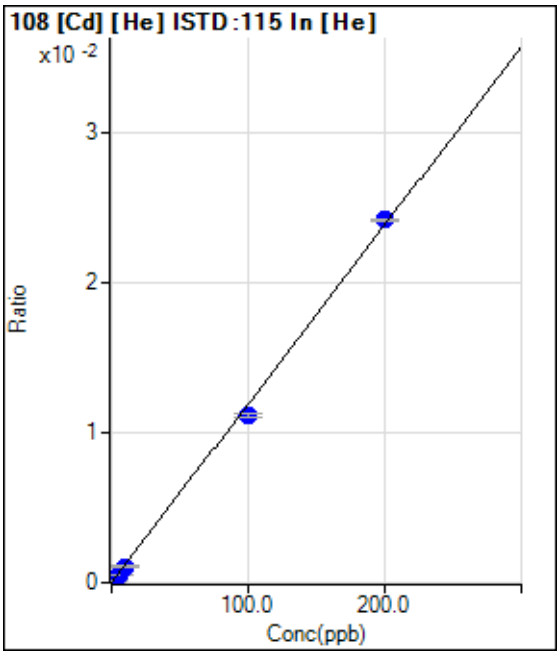
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6.67	0.0000	P	173.2
2	☐	2.000	1.889	766.70	0.0002	P	17.2
3	☐	5.000	5.036	2020.20	0.0005	P	3.4
4	☐	10.000	10.080	3964.01	0.0010	P	4.6
5	☐	100.000	96.907	36989.01	0.0096	P	1.2
6	☐	200.000	201.543	74764.32	0.0200	P	1.0

y = 9.9206E-005 * x + 1.6273E-006
R = 0.9998
DL = 0.08524
BEC = 0.0164

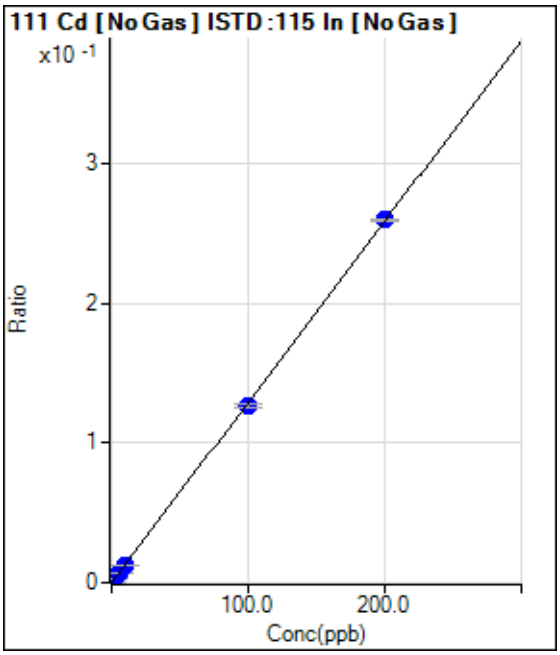
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	16.67	0.0000	P	67.9
2	☐	2.000	1.729	366.68	0.0002	P	36.1
3	☐	5.000	4.497	910.05	0.0005	P	7.8
4	☐	10.000	8.843	1726.81	0.0011	P	6.6
5	☐	100.000	94.035	17455.22	0.0112	P	2.4
6	☐	200.000	203.056	36133.15	0.0242	P	0.7

y = 1.1928E-004 * x + 9.7338E-006
R = 0.9994
DL = 0.1663
BEC = 0.0816

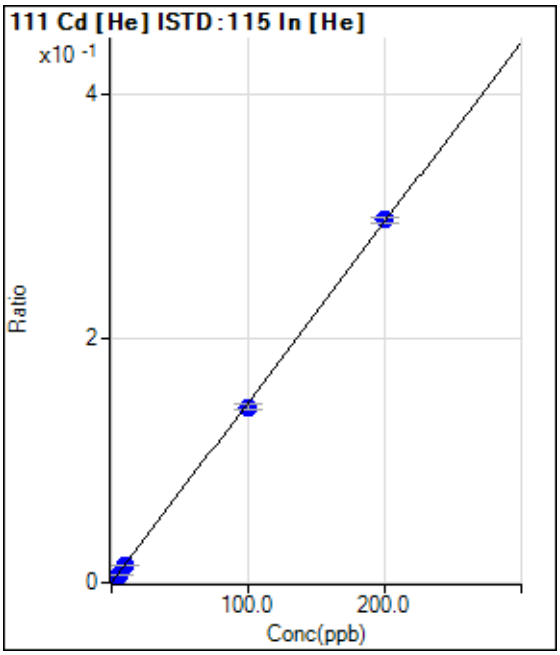
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	23.33	0.0000	P	48.6
2	☐	2.000	2.010	10574.39	0.0026	P	0.5
3	☐	5.000	4.966	25912.60	0.0064	P	2.9
4	☐	10.000	9.674	49506.54	0.0125	P	3.3
5	☐	100.000	98.018	487438.17	0.1267	P	1.6
6	☐	200.000	201.008	971521.73	0.2598	P	0.3

y = 0.0013 * x + 5.6988E-006
R = 0.9999
DL = 0.006424
BEC = 0.004409

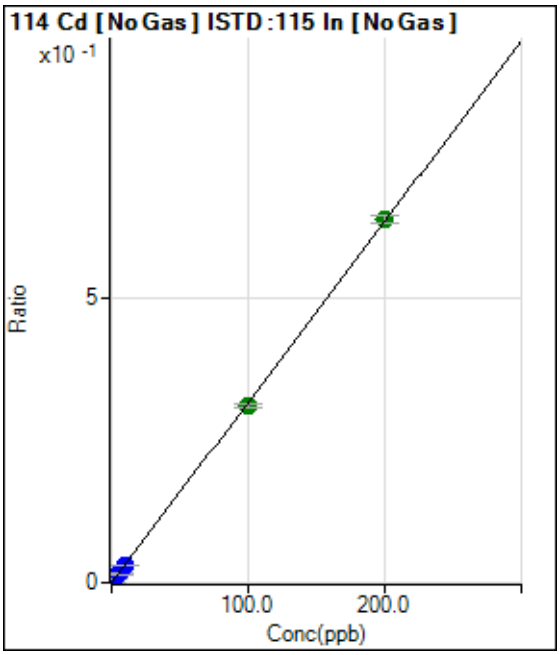
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	-11.22	0.0000	P	-161.7
2	☐	2.000	1.944	4871.01	0.0029	P	2.3
3	☐	5.000	4.555	11209.38	0.0067	P	2.7
4	☐	10.000	9.185	21968.99	0.0136	P	0.8
5	☐	100.000	97.458	223835.87	0.1440	P	3.7
6	☐	200.000	201.323	443447.71	0.2974	P	1.8

y = 0.0015 * x - 6.5003E-006
R = 0.9999
DL = 0.02134
BEC = -0.0044

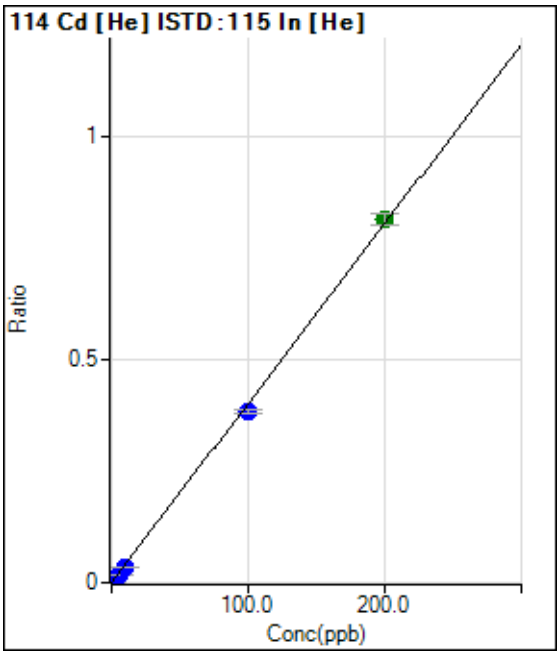
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	113.33	0.0000	P	33.6
2	☐	2.000	1.977	25628.66	0.0063	P	1.3
3	☐	5.000	4.795	61527.31	0.0153	P	1.4
4	☐	10.000	9.396	118278.62	0.0299	P	2.9
5	☐	100.000	98.030	1198356.54	0.3116	A	3.0
6	☐	200.000	201.020	2388507.20	0.6388	A	2.1

y = 0.0032 * x + 2.7851E-005
R = 0.9999
DL = 0.008825
BEC = 0.008764

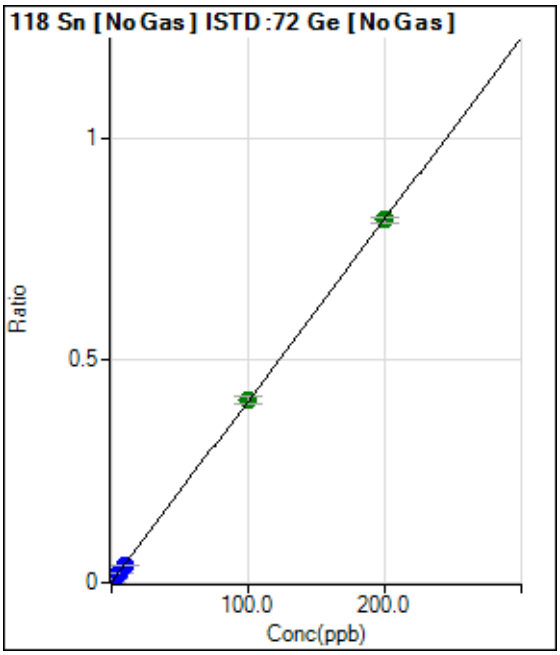
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	53.33	0.0000	P	46.2
2	☐	2.000	1.858	12739.69	0.0075	P	3.9
3	☐	5.000	4.530	30385.51	0.0182	P	0.6
4	☐	10.000	9.063	59039.47	0.0364	P	0.9
5	☐	100.000	95.524	596841.51	0.3838	P	1.5
6	☐	200.000	202.298	1211918.89	0.8128	A	3.1

y = 0.0040 * x + 3.1186E-005
R = 0.9997
DL = 0.01076
BEC = 0.007762

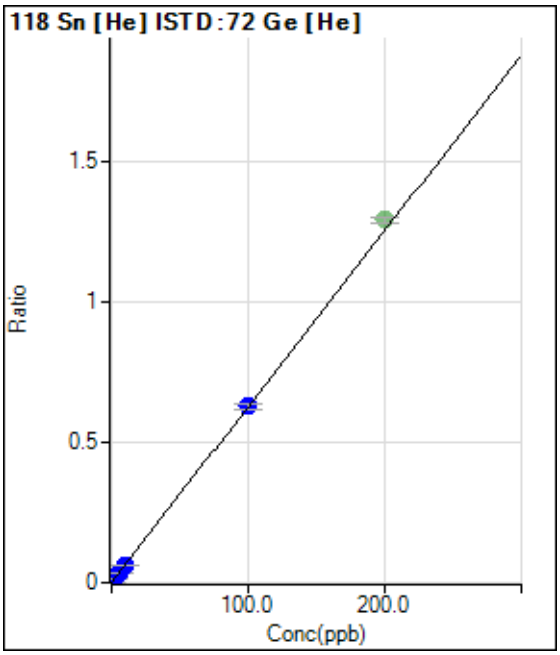
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2386.93	0.0007	P	9.9
2	☐	2.000	1.966	31401.21	0.0087	P	1.5
3	☐	5.000	4.984	75252.35	0.0210	P	2.4
4	☐	10.000	9.805	141622.79	0.0407	P	0.9
5	☐	100.000	100.488	1419751.02	0.4106	A	4.2
6	☐	200.000	199.767	2754728.19	0.8155	A	1.6

y = 0.0041 * x + 6.5562E-004
R = 1.0000
DL = 0.04754
BEC = 0.1607

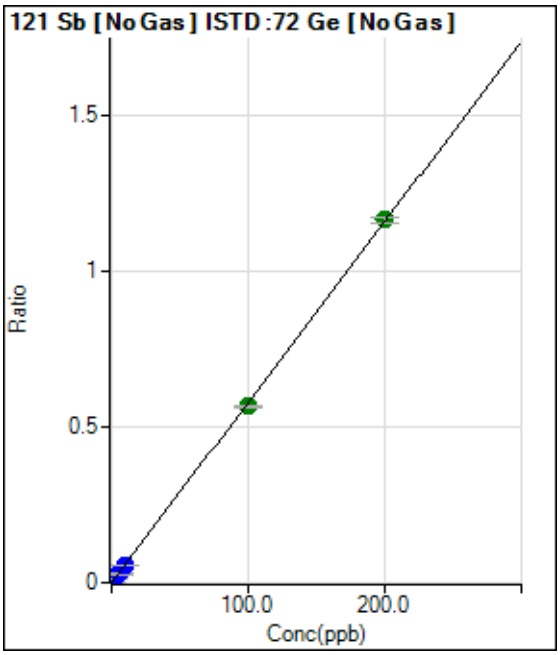
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1080.07	0.0011	P	8.0
2	☐	2.000	2.003	13900.88	0.0136	P	1.9
3	☐	5.000	5.001	32413.11	0.0324	P	3.7
4	☐	10.000	9.827	60509.58	0.0627	P	0.0
5	☐	100.000	100.017	596115.29	0.6282	P	2.4
6	☑	200.000		1202002.90	1.2944	A	1.5

y = 0.0063 * x + 0.0011
R = 1.0000
DL = 0.04051
BEC = 0.1698

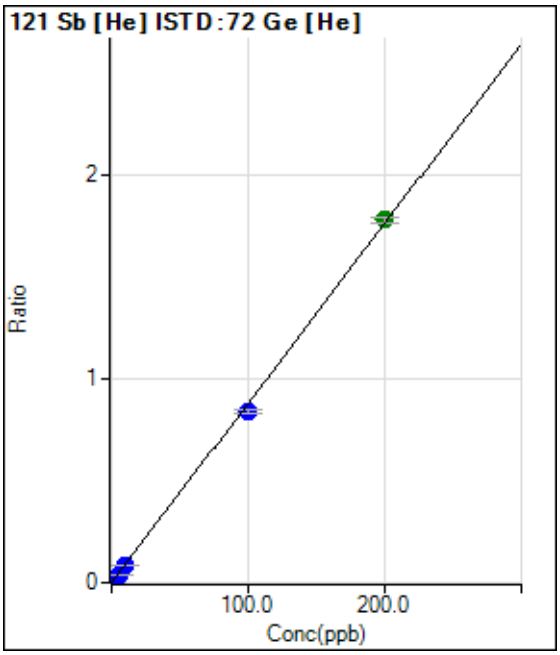
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	323.34	0.0001	P	6.6
2	☐	2.000	1.968	41546.30	0.0115	P	2.2
3	☐	5.000	4.859	101116.26	0.0282	P	3.4
4	☐	10.000	9.694	195683.03	0.0562	P	0.8
5	☐	100.000	97.756	1956255.39	0.5656	A	1.3
6	☐	200.000	201.141	3930758.48	1.1637	A	1.3

y = 0.0058 * x + 8.8745E-005
R = 0.9999
DL = 0.003037
BEC = 0.01534

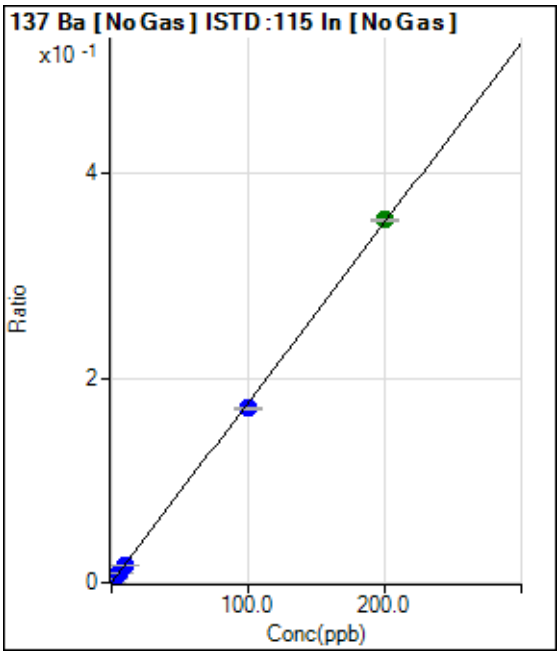
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	140.00	0.0001	P	46.3
2	☐	2.000	1.893	17134.87	0.0168	P	2.7
3	☐	5.000	4.705	41512.89	0.0415	P	3.0
4	☐	10.000	9.450	80436.34	0.0833	P	1.6
5	☐	100.000	95.769	800041.16	0.8431	P	2.2
6	☐	200.000	202.152	1652474.45	1.7795	A	1.4

y = 0.0088 * x + 1.3770E-004
R = 0.9997
DL = 0.02173
BEC = 0.01564

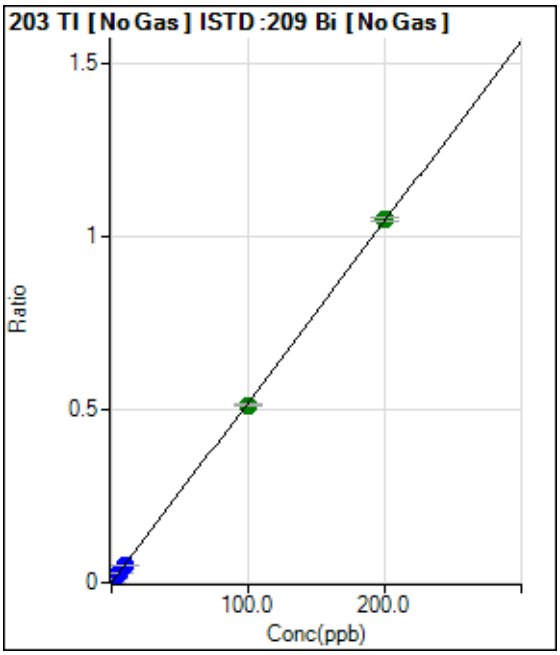
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	913.39	0.0002	P	11.5
2	☐	2.000	1.922	14638.47	0.0036	P	1.4
3	☐	5.000	4.769	34703.43	0.0086	P	0.3
4	☐	10.000	9.432	66517.15	0.0168	P	2.4
5	☐	100.000	96.986	656861.03	0.1708	P	1.2
6	☐	200.000	201.542	1325844.77	0.3546	A	0.3

y = 0.0018 * x + 2.2454E-004
R = 0.9998
DL = 0.04399
BEC = 0.1277

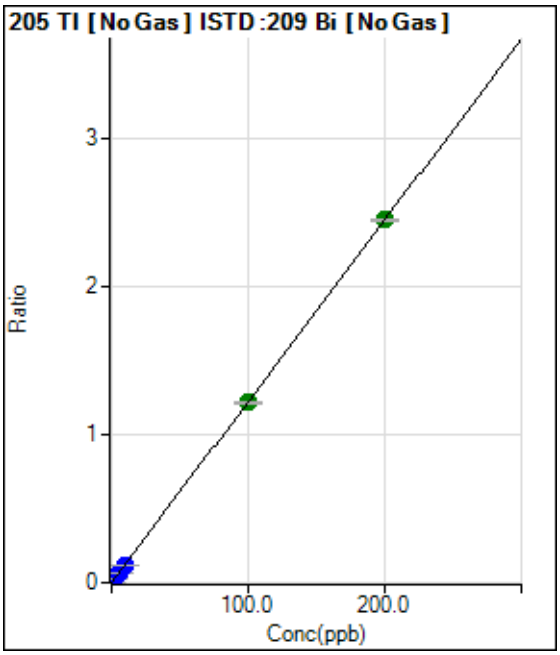
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	221.12	0.0001	P	13.2
2	☐	2.000	1.914	33226.43	0.0101	P	1.3
3	☐	5.000	4.959	83100.69	0.0260	P	1.8
4	☐	10.000	9.504	156924.25	0.0497	P	1.4
5	☐	100.000	98.117	1580204.38	0.5124	A	1.3
6	☐	200.000	200.968	3145840.92	1.0495	A	1.1

y = 0.0052 * x + 6.7399E-005
R = 0.9999
DL = 0.00511
BEC = 0.01291

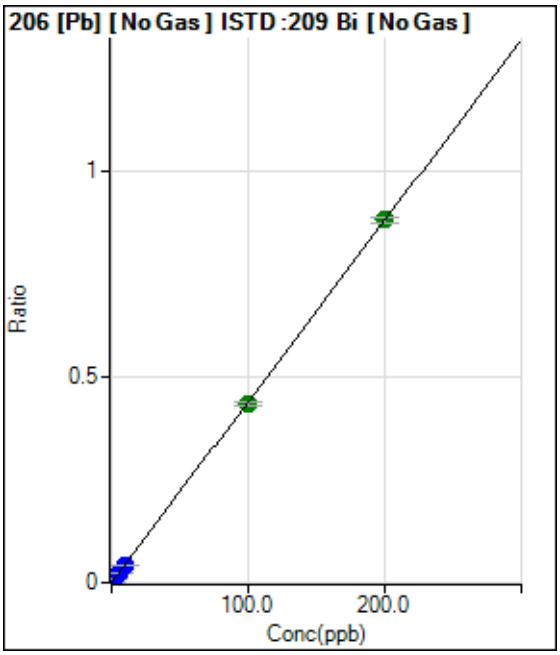
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	562.24	0.0002	P	9.3
2	☐	2.000	1.987	80654.46	0.0244	P	0.6
3	☐	5.000	5.072	198778.78	0.0621	P	0.4
4	☐	10.000	9.773	377337.98	0.1195	P	1.3
5	☐	100.000	99.438	3744582.63	1.2143	A	0.9
6	☐	200.000	200.291	7330544.43	2.4457	A	0.7

y = 0.0122 * x + 1.7125E-004
R = 1.0000
DL = 0.003898
BEC = 0.01403

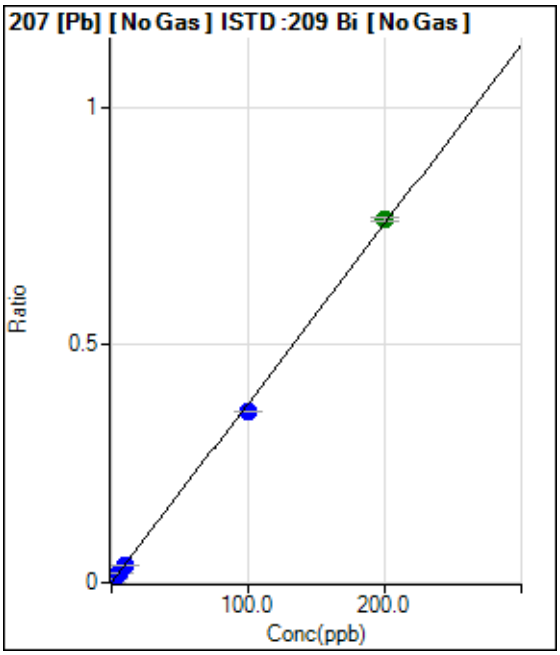
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	440.02	0.0001	P	5.2
2	☐	2.000	1.916	28305.76	0.0086	P	1.9
3	☐	5.000	4.847	68763.72	0.0215	P	1.6
4	☐	10.000	9.516	132769.44	0.0420	P	0.6
5	☐	100.000	99.049	1345721.18	0.4364	A	1.5
6	☐	200.000	200.504	2647504.75	0.8832	A	1.5

y = 0.0044 * x + 1.3402E-004
R = 1.0000
DL = 0.004741
BEC = 0.03043

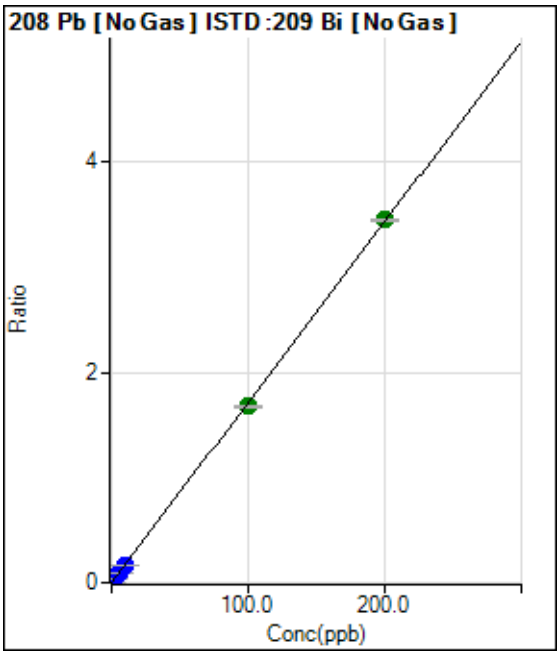
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	430.02	0.0001	P	12.6
2	☐	2.000	1.938	24581.38	0.0074	P	2.6
3	☐	5.000	4.936	60051.53	0.0188	P	0.2
4	☐	10.000	9.463	113177.74	0.0358	P	0.7
5	☐	100.000	95.417	1110879.02	0.3602	P	0.6
6	☐	200.000	202.320	2289008.30	0.7637	A	1.1

y = 0.0038 * x + 1.3098E-004
R = 0.9996
DL = 0.01307
BEC = 0.03471

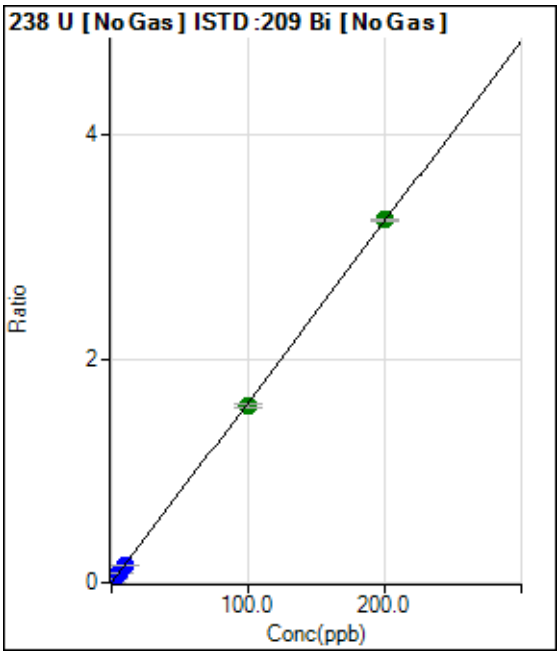
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1893.44	0.0006	P	5.8
2	☐	2.000	1.964	112993.13	0.0342	P	1.2
3	☐	5.000	4.954	273537.07	0.0855	P	1.0
4	☐	10.000	9.639	523291.72	0.1657	P	0.1
5	☐	100.000	97.781	5167866.51	1.6758	A	1.3
6	☐	200.000	201.129	10330379.84	3.4465	A	0.7

y = 0.0171 * x + 5.7676E-004
R = 0.9999
DL = 0.005889
BEC = 0.03366

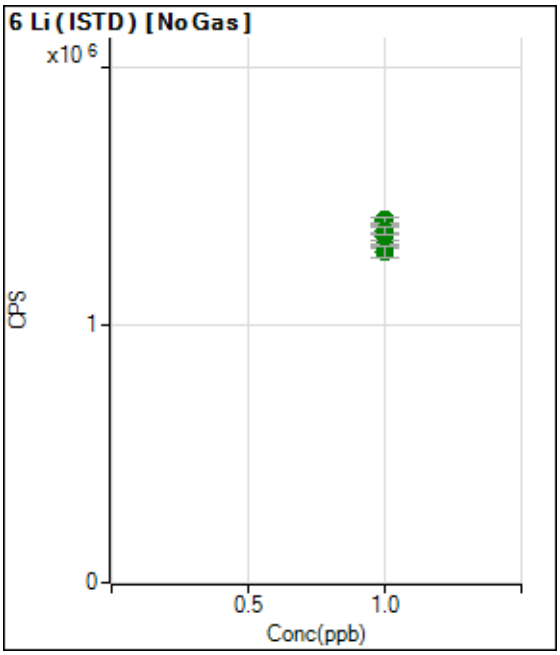
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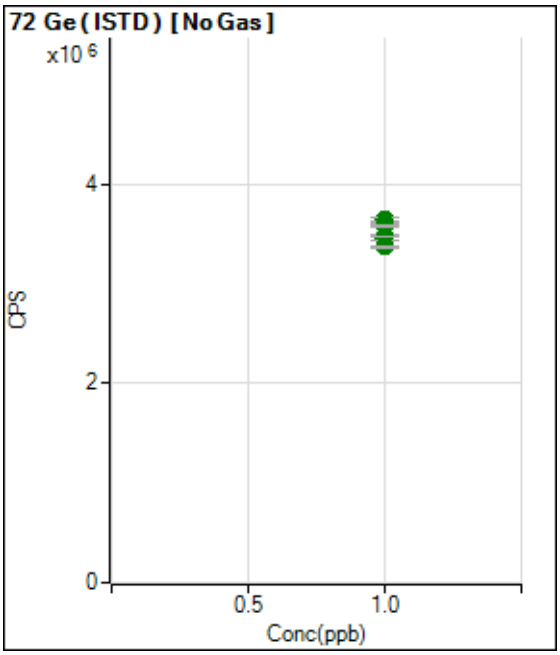
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	316.68	0.0001	P	27.9
2	☐	2.000	1.939	103610.33	0.0314	P	1.8
3	☐	5.000	4.835	250047.56	0.0781	P	1.1
4	☐	10.000	9.493	483882.65	0.1533	P	1.8
5	☐	100.000	98.194	4885894.62	1.5843	A	1.8
6	☐	200.000	200.933	9717280.90	3.2419	A	0.7

y = 0.0161 * x + 9.6635E-005
R = 0.9999
DL = 0.005017
BEC = 0.00599

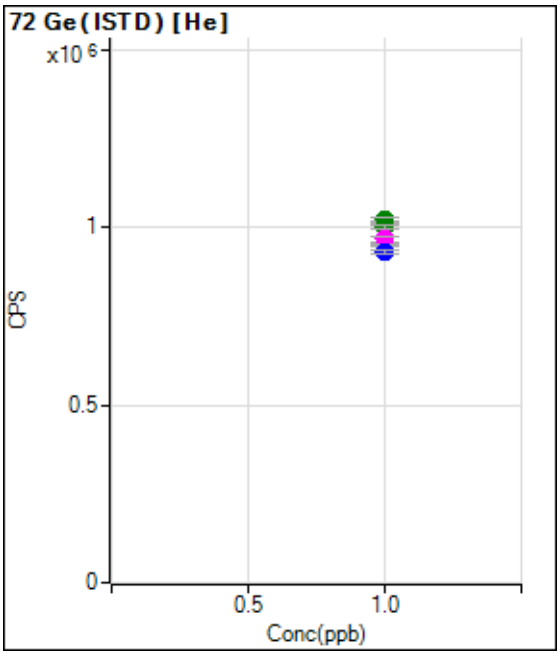
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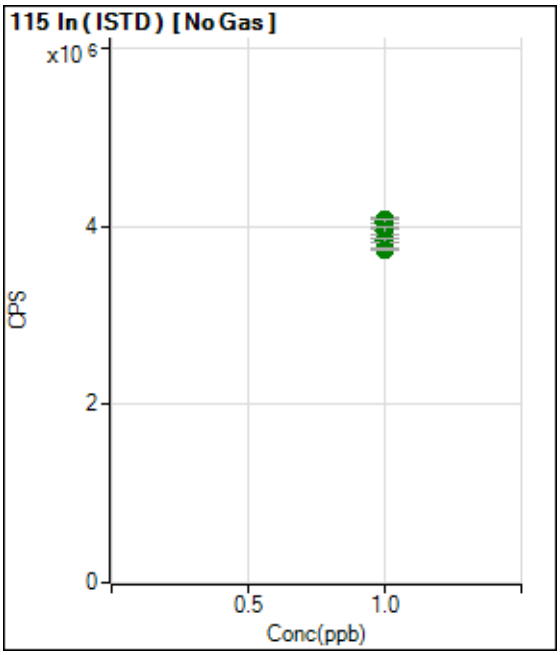
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1404381.15		A	2.5
2	☐	1.000		1410194.32		A	1.9
3	☐	1.000		1347990.61		A	2.1
4	☐	1.000		1364699.02		A	2.3
5	☐	1.000		1308366.01		A	1.2
6	☐	1.000		1284119.60		A	3.7



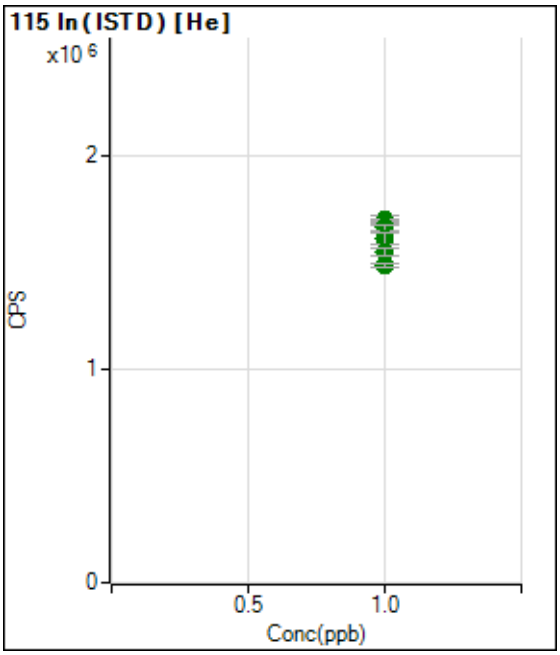
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		3643991.09		A	1.6
2	☐	1.000		3620284.84		A	0.3
3	☐	1.000		3586255.26		A	0.8
4	☐	1.000		3483912.14		A	0.7
5	☐	1.000		3458626.10		A	1.0
6	☐	1.000		3378019.11		A	0.7



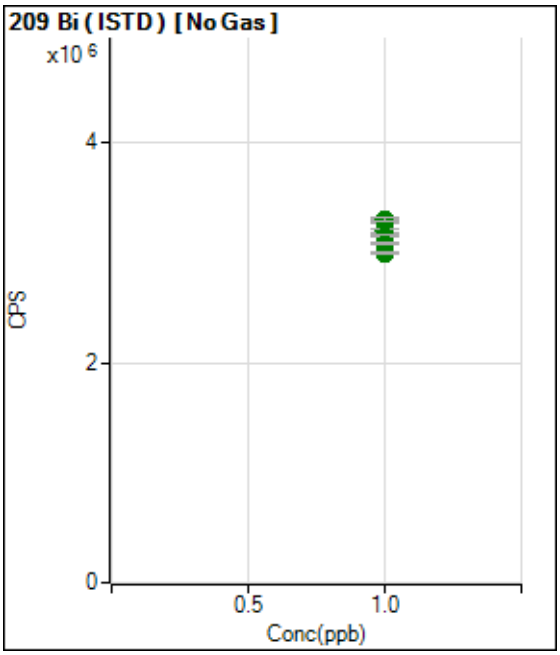
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1014645.06		A	0.8
2	☐	1.000		1020059.59		A	1.7
3	☐	1.000		999354.44		A	1.3
4	☐	1.000		965381.29		M	1.8
5	☐	1.000		948866.21		M	0.6
6	☐	1.000		928701.11		P	1.0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		4072773.61		A	1.7
2	☐	1.000		4060838.14		A	1.0
3	☐	1.000		4030786.72		A	2.9
4	☐	1.000		3957840.76		A	2.0
5	☐	1.000		3847171.55		A	1.2
6	☐	1.000		3738989.48		A	0.4



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1702866.54		A	2.0
2	☐	1.000		1700196.65		A	0.8
3	☐	1.000		1666699.99		A	1.5
4	☐	1.000		1619900.10		A	3.3
5	☐	1.000		1555360.35		A	2.1
6	☐	1.000		1491142.69		A	1.5



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		3283973.18		A	1.1
2	☐	1.000		3301646.41		A	1.1
3	☐	1.000		3201296.41		A	1.5
4	☐	1.000		3157736.52		A	0.8
5	☐	1.000		3083846.73		A	0.4
6	☐	1.000		2997278.08		A	0.7

Calibration Blank Report

Sample Table

Sample Name	CAL BLK
Data File Name	010CALB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061224A.b
Acq Date Time	2024-06-12T10:39:59-05:00
Sample Type	CalBlk
Level	1
Dilution	1
Comment	

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Li	7	1	No Gas	81177	0.00
Be	9	1	No Gas	10	500.00
V	51	2	He	2544	0.44
Cr	52	2	He	10087	0.04
Fe	56	2	He	31767	0.00
Se	78	2	He	183	5.10
As	75	2	He	217	3.10
Ca	44	2	He	4768	0.03
Na	23	2	He	415042	0.00
Mg	24	2	He	2090	0.21
K	39	2	He	144189	0.00
Mn	55	2	He	2274	0.39
Co	59	2	He	177	7.40
Ni	60	2	He	503	4.33
Cu	63	2	He	1533	0.50
Zn	66	2	He	2557	0.02
Al	27	2	He	2380	0.22
B	11	1	No Gas	16461	0.00
Al	27	1	No Gas	80466	0.00
Si	28	1	No Gas	533593	0.00
Ag	107	1	No Gas	883	1.04
Cd	111	1	No Gas	23	212.09
Sr	88	1	No Gas	12883	0.01
Mo	95	1	No Gas	220	16.14
Sn	118	1	No Gas	2387	0.36
Sb	121	1	No Gas	323	1.99
Ba	137	1	No Gas	913	1.08
Tl	205	1	No Gas	562	1.58
Tl	203	1	No Gas	221	5.47
Pb	208	1	No Gas	1893	0.27
U	238	1	No Gas	317	8.48
Ca	43	2	He	227	18.50
Sb	121	2	He	140	33.46
Ti	47	2	He	37	42.94
Cu	63	1	No Gas	3407	0.21

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD

Calibration Blank Report

Li	6	1	No Gas	1404381	2.45
Ge	72	2	He	1014645	0.76
Ge	72	1	No Gas	3643991	1.59
Bi	209	1	No Gas	3283973	1.13

Calibration Standard Report

Sample Table

Sample Name	2/10/200
Data File Name	011CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061224A.b
Acq Date Time	2024-06-12T10:41:55-05:00
Sample Type	CalStd
Level	2
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	10611	0.01
V	51	2	He	17757	0.02
Cr	52	2	He	30123	0.01
Fe	56	2	He	1826819	0.00
Se	78	2	He	459	1.67
As	75	2	He	3277	0.25
Ca	44	2	He	15776	0.01
Na	23	2	He	745392	0.00
Mg	24	2	He	203683	0.00
K	39	2	He	384732	0.00
Mn	55	2	He	21187	0.05
Co	59	2	He	28741	0.01
Ni	60	2	He	8283	0.07
Cu	63	2	He	20078	0.01
Zn	66	2	He	7005	0.04
Al	27	2	He	2970	0.23
B	11	1	No Gas	45423	0.00
Al	27	1	No Gas	116875	0.00
Si	28	1	No Gas	634908	0.00
Ag	107	1	No Gas	52418	0.01
Cd	111	1	No Gas	10574	0.00
Sr	88	1	No Gas	100173	0.00
Mo	95	1	No Gas	18730	0.01
Sn	118	1	No Gas	31401	0.01
Sb	121	1	No Gas	41546	0.01
Ba	137	1	No Gas	14638	0.01
Tl	205	1	No Gas	80654	0.00
Tl	203	1	No Gas	33226	0.00
Pb	208	1	No Gas	112993	0.00
U	238	1	No Gas	103610	0.00
Ca	43	2	He	843	0.63
Sb	121	2	He	17135	0.02
Cu	63	1	No Gas	43761	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1410194	1.89	1404381	100.41	70	120	
Ge	72	2	He	1020060	1.69	1014645	100.53	70	120	
Ge	72	1	No Gas	3620285	0.32	3643991	99.35	70	120	

Calibration Standard Report

Bi	209	1	No Gas	3301646	1.13	3283973	100.54	70	120	

Calibration Standard Report

Sample Table

Sample Name	5/25/500
Data File Name	012CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061224A.b
Acq Date Time	2024-06-12T10:43:52-05:00
Sample Type	CalStd
Level	3
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	25722	0.01
V	51	2	He	41810	0.01
Cr	52	2	He	56343	0.00
Fe	56	2	He	4266068	0.00
Se	78	2	He	900	0.99
As	75	2	He	7512	0.02
Ca	44	2	He	32452	0.00
Na	23	2	He	1185339	0.00
Mg	24	2	He	493318	0.00
K	39	2	He	737741	0.00
Mn	55	2	He	38351	0.01
Co	59	2	He	69625	0.00
Ni	60	2	He	18376	0.02
Cu	63	2	He	47687	0.00
Zn	66	2	He	11572	0.01
Al	27	2	He	4658	0.02
B	11	1	No Gas	86533	0.00
Al	27	1	No Gas	171735	0.00
Si	28	1	No Gas	846848	0.00
Ag	107	1	No Gas	126126	0.00
Cd	111	1	No Gas	25913	0.02
Sr	88	1	No Gas	232231	0.00
Mo	95	1	No Gas	45334	0.01
Sn	118	1	No Gas	75252	0.00
Sb	121	1	No Gas	101116	0.00
Ba	137	1	No Gas	34703	0.01
Tl	205	1	No Gas	198779	0.00
Tl	203	1	No Gas	83101	0.00
Pb	208	1	No Gas	273537	0.00
U	238	1	No Gas	250048	0.00
Ca	43	2	He	1990	0.36
Sb	121	2	He	41513	0.00
Cu	63	1	No Gas	101461	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1347991	2.13	1404381	95.98	70	120	
Ge	72	2	He	999354	1.25	1014645	98.49	70	120	
Ge	72	1	No Gas	3586255	0.78	3643991	98.42	70	120	

Calibration Standard Report

Bi	209	1	No Gas	3201296	1.48	3283973	97.48	70	120	

Calibration Standard Report

Sample Table

Sample Name	10/50/100
Data File Name	013CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061224A.b
Acq Date Time	2024-06-12T10:45:47-05:00
Sample Type	CalStd
Level	4
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	50448	0.00
V	51	2	He	77005	0.01
Cr	52	2	He	98762	0.00
Fe	56	2	He	8006527	0.00
Se	78	2	He	1585	0.19
As	75	2	He	14186	0.03
Ca	44	2	He	59288	0.00
Na	23	2	He	1913796	0.00
Mg	24	2	He	916533	0.00
K	39	2	He	1286272	0.00
Mn	55	2	He	69242	0.00
Co	59	2	He	135135	0.00
Ni	60	2	He	35029	0.01
Cu	63	2	He	90145	0.00
Zn	66	2	He	21741	0.01
Al	27	2	He	7966	0.04
B	11	1	No Gas	153018	0.00
Al	27	1	No Gas	292970	0.00
Si	28	1	No Gas	1117588	0.00
Ag	107	1	No Gas	242667	0.00
Cd	111	1	No Gas	49507	0.01
Sr	88	1	No Gas	433562	0.00
Mo	95	1	No Gas	87137	0.00
Sn	118	1	No Gas	141623	0.00
Sb	121	1	No Gas	195683	0.00
Ba	137	1	No Gas	66517	0.00
Tl	205	1	No Gas	377338	0.00
Tl	203	1	No Gas	156924	0.00
Pb	208	1	No Gas	523292	0.00
U	238	1	No Gas	483883	0.00
Ca	43	2	He	3317	0.02
Sb	121	2	He	80436	0.00
Cu	63	1	No Gas	196635	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1364699	2.25	1404381	97.17	70	120	
Ge	72	2	He	965381	1.79	1014645	95.14	70	120	
Ge	72	1	No Gas	3483912	0.70	3643991	95.61	70	120	

Calibration Standard Report

Bi	209	1	No Gas	3157737	0.80	3283973	96.16	70	120	

Calibration Standard Report

Sample Table

Sample Name	100/500/10K
Data File Name	014CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061224A.b
Acq Date Time	2024-06-12T10:47:42-05:00
Sample Type	CalStd
Level	5
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	500761	0.00
V	51	2	He	747074	0.00
Cr	52	2	He	879074	0.00
Fe	56	2	He	80003575	0.00
Se	78	2	He	13608	0.00
As	75	2	He	140689	0.00
Ca	44	2	He	553411	0.00
Na	23	2	He	15294342	0.00
Mg	24	2	He	8919102	0.00
K	39	2	He	11094048	0.00
Mn	55	2	He	673121	0.00
Co	59	2	He	1338571	0.00
Ni	60	2	He	339791	0.00
Cu	63	2	He	877295	0.00
Zn	66	2	He	179754	0.00
Al	27	2	He	58852	0.01
B	11	1	No Gas	1388647	0.00
Al	27	1	No Gas	2127173	0.00
Si	28	1	No Gas	5842025	0.00
Ag	107	1	No Gas	2432533	0.00
Cd	111	1	No Gas	487438	0.00
Sr	88	1	No Gas	4232954	0.00
Mo	95	1	No Gas	869008	0.00
Sn	118	1	No Gas	1419751	0.00
Sb	121	1	No Gas	1956255	0.00
Ba	137	1	No Gas	656861	0.00
Tl	205	1	No Gas	3744583	0.00
Tl	203	1	No Gas	1580204	0.00
Pb	208	1	No Gas	5167867	0.00
U	238	1	No Gas	4885895	0.00
Ca	43	2	He	33107	0.01
Sb	121	2	He	800041	0.00
Cu	63	1	No Gas	1927148	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1308366	1.21	1404381	93.16	70	120	
Ge	72	2	He	948866	0.58	1014645	93.52	70	120	
Ge	72	1	No Gas	3458626	1.02	3643991	94.91	70	120	

Calibration Standard Report

Bi	209	1	No Gas	3083847	0.39	3283973	93.91	70	120	

Calibration Standard Report

Sample Table

Sample Name	200/1000/20K
Data File Name	015CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061224A.b
Acq Date Time	2024-06-12T10:49:30-05:00
Sample Type	CalStd
Level	6
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	996922	0.00
V	51	2	He	1510333	0.00
Cr	52	2	He	1772172	0.00
Fe	56	2	He	160487494	0.00
Se	78	2	He	27085	0.00
As	75	2	He	279515	0.00
Ca	44	2	He	1083350	0.00
Na	23	2	He	30282794	0.00
Mg	24	2	He	17658463	0.00
K	39	2	He	21711611	0.00
Mn	55	2	He	1332102	0.00
Co	59	2	He	2568188	0.00
Ni	60	2	He	670037	0.00
Cu	63	2	He	1702864	0.00
Zn	66	2	He	352732	0.00
Al	27	2	He	114956	0.00
B	11	1	No Gas	2743055	0.00
Al	27	1	No Gas	4103421	0.00
Si	28	1	No Gas	11184969	0.00
Ag	107	1	No Gas	4676170	0.00
Cd	111	1	No Gas	971522	0.00
Sr	88	1	No Gas	8230073	0.00
Mo	95	1	No Gas	1786461	0.00
Sn	118	1	No Gas	2754728	0.00
Sb	121	1	No Gas	3930758	0.00
Ba	137	1	No Gas	1325845	0.00
Tl	205	1	No Gas	7330544	0.00
Tl	203	1	No Gas	3145841	0.00
Pb	208	1	No Gas	10330380	0.00
U	238	1	No Gas	9717281	0.00
Ca	43	2	He	65797	0.00
Sb	121	2	He	1652474	0.00
Cu	63	1	No Gas	3663417	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1284120	3.66	1404381	91.44	70	120	
Ge	72	2	He	928701	1.05	1014645	91.53	70	120	
Ge	72	1	No Gas	3378019	0.67	3643991	92.70	70	120	

Calibration Standard Report

Bi	209	1	No Gas	2997278	0.70	3283973	91.27	70	120	

Initial Calibration Verification (ICV) Report

Sample Table

Sample Name	ICV
Data File Name	016_ICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061224A.b
Acq Date Time	2024-06-12T10:52:57-05:00
Sample Type	ICV
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

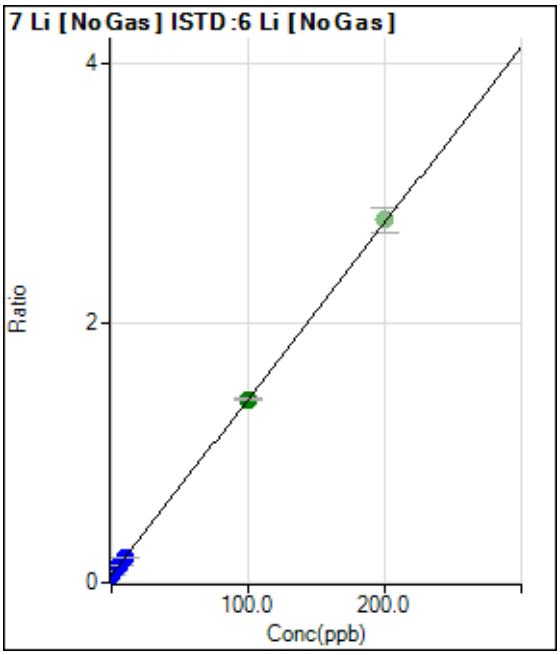
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Li	7	1	No Gas	94.906	5.446	1773922	3.02	100	94.9	90	110	
Be	9	1	No Gas	96.000	4.323	487449	1.76	100	96.0	90	110	
V	51	2	He	93.582	0.993	722522	2.90	100	93.6	90	110	
Cr	52	2	He	93.044	1.304	846423	3.26	100	93.0	90	110	
Fe	56	2	He	9243.698	1.085	75836591	1.39	10000	92.4	90	110	
Se	78	2	He	95.252	0.274	13284	2.40	100	95.3	90	110	
As	75	2	He	94.645	1.096	135554	1.13	100	94.6	90	110	
Ca	44	2	He	9564.527	0.599	534241	2.70	10000	95.6	90	110	
Na	23	2	He	9448.931	1.641	14833669	2.63	10000	94.5	90	110	
Mg	24	2	He	9452.755	1.472	8554692	1.14	10000	94.5	90	110	
K	39	2	He	9571.331	1.915	10733947	2.63	10000	95.7	90	110	
Mn	55	2	He	94.971	1.752	649255	1.20	100	95.0	90	110	
Co	59	2	He	97.132	1.548	1286645	2.62	100	97.1	90	110	
Ni	60	2	He	94.656	0.363	325538	1.98	100	94.7	90	110	
Cu	63	2	He	95.051	0.711	833618	2.30	100	95.1	90	110	
Zn	66	2	He	94.402	1.761	172028	2.52	100	94.4	90	110	
Al	27	2	He	95.220	1.581	57209	3.38	100	95.2	90	110	
B	11	1	No Gas	476.609	4.202	1340965	1.85	500	95.3	90	110	
Al	27	1	No Gas	98.428	2.361	2073021	2.52	100	98.4	90	110	
Si	28	1	No Gas	484.635	1.722	5700642	1.89	500	96.9	90	110	
Ag	107	1	No Gas	98.953	2.641	2341855	2.97	100	99.0	90	110	
Cd	111	1	No Gas	97.721	1.461	480077	1.81	100	97.7	90	110	
Sr	88	1	No Gas	99.521	0.438	4139660	0.61	100	99.5	90	110	
Mo	95	1	No Gas	93.966	0.631	838213	1.19	100	94.0	90	110	
Sn	118	1	No Gas	98.780	1.274	1375176	1.49	100	98.8	90	110	
Sb	121	1	No Gas	97.357	1.595	1919311	1.79	100	97.4	90	110	
Ba	137	1	No Gas	94.900	0.954	635022	1.80	100	94.9	90	110	
Tl	205	1	No Gas	100.187	2.017	3752637	1.98	100	100.2	90	110	
Tl	203	1	No Gas	97.763	2.809	1565768	1.16	100	97.8	90	110	
Pb	208	1	No Gas	97.292	2.445	5114075	1.65	100	97.3	90	110	
U	238	1	No Gas	96.123	1.854	4757494	2.32	100	96.1	90	110	
Ca	43	2	He	9388.579	1.776	31720	1.03	10000	93.9	90	110	
Sb	121	2	He	92.953	1.437	780651	1.72	100	93.0	90	110	
Ti	47	2	He	92.948	1.732	29986	0.70	100	92.9	90	110	
Cu	63	1	No Gas	99.474	2.407	1849542	2.68	100	99.5	90	110	
Se	82	1	No Gas	97.905	2.432	30244	2.95	100	97.9	90	110	
Zr	90	2	He	95.576	2.477	1066604	0.55	100	95.6	90	110	
Zr	90	1	No Gas	98.634	0.504	2678543	1.00	100	98.6	90	110	
Cd	111	2	He	91.705	3.571	216110	2.64	100	91.7	90	110	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1312281	2.61	1404381	93.44	70	120	
Ge	72	2	He	954105	2.13	1014645	94.03	70	120	
Ge	72	1	No Gas	3407327	0.56	3643991	93.51	70	120	
Bi	209	1	No Gas	3068213	3.00	3283973	93.43	70	120	

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Calibration Method: External Calibration
VIS Interpolation Fit:

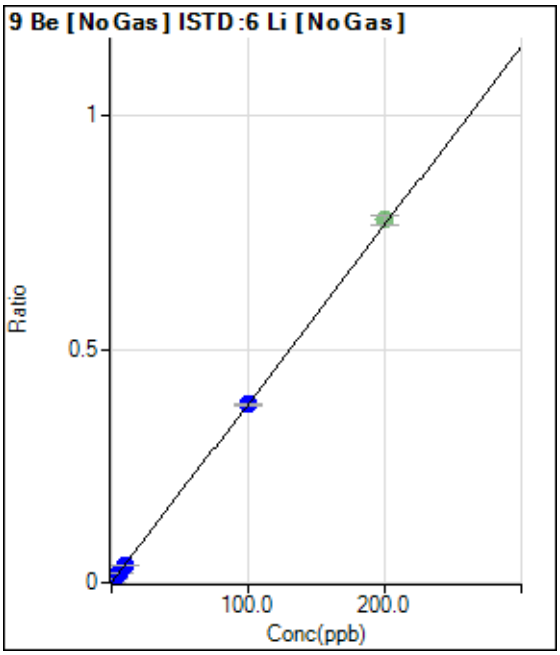
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2	011CALS.d	2/10/200	6/12/2024 10:41:55 AM
3	012CALS.d	5/25/500	6/12/2024 10:43:52 AM
4	013CALS.d	10/50/100	6/12/2024 10:45:47 AM
5	014CALS.d	100/500/10K	6/12/2024 10:47:42 AM
6	015CALS.d	200/1000/20K	6/12/2024 10:49:30 AM



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	81177.27	0.0578	P	2.3
2	☐	2.000	1.968	119120.74	0.0845	P	1.7
3	☐	5.000	5.184	172597.58	0.1281	P	1.0
4	☐	10.000	9.765	259323.44	0.1901	P	2.9
5	☐	100.000	100.015	1848225.60	1.4127	A	0.6
6	☑	200.000		3579742.76	2.7920	A	6.8

y = 0.0135 * x + 0.0578
R = 1.0000
DL = 0.2904
BEC = 4.268

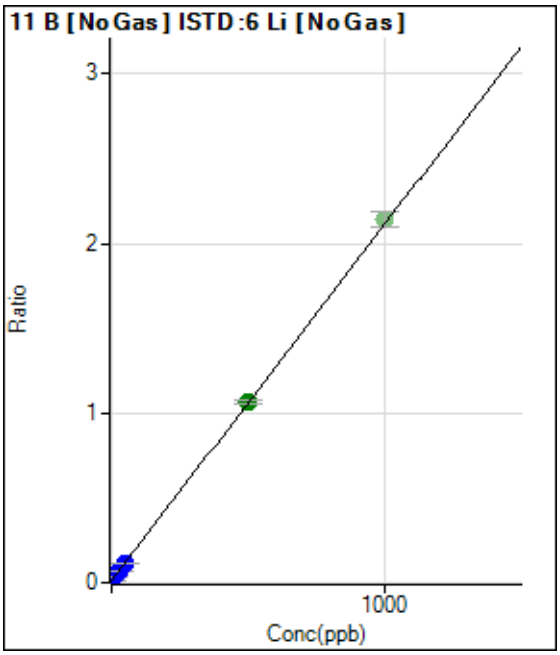
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	10.00	0.0000	P	49.7
2	☐	2.000	1.965	10610.74	0.0075	P	3.1
3	☐	5.000	4.987	25721.96	0.0191	P	3.1
4	☐	10.000	9.663	50448.41	0.0370	P	2.9
5	☐	100.000	100.035	500761.45	0.3828	P	1.0
6	☑	200.000		996921.76	0.7768	A	2.5

y = 0.0038 * x + 7.1328E-006
R = 1.0000
DL = 0.002778
BEC = 0.001864

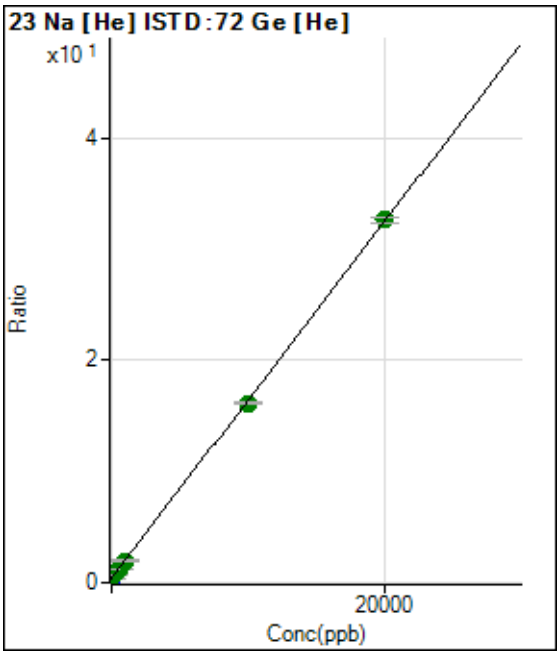
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	16461.38	0.0117	P	2.1
2	☐	10.000	9.764	45423.40	0.0322	P	1.5
3	☐	25.000	25.001	86533.22	0.0642	P	0.4
4	☐	50.000	47.867	153018.29	0.1122	P	3.7
5	☐	500.000	500.218	1388646.91	1.0616	A	2.4
6	☑	1000.000		2743055.48	2.1382	A	4.1

y = 0.0021 * x + 0.0117
R = 1.0000
DL = 0.3471
BEC = 5.587

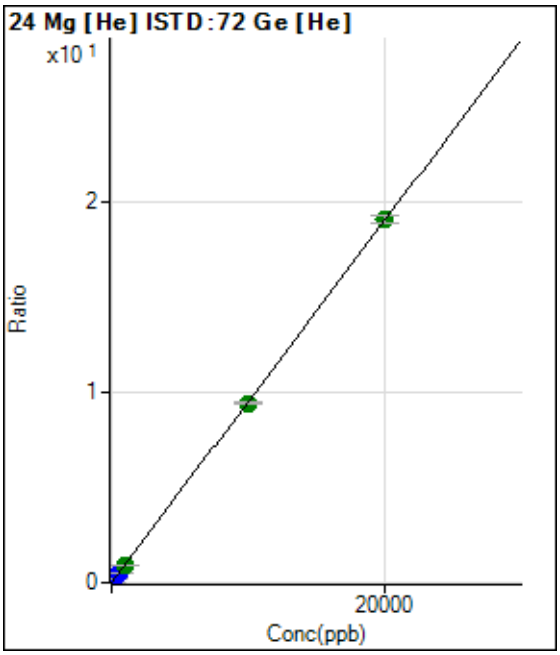
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	415041.91	0.4091	P	1.2
2	☐	200.000	200.778	745392.15	0.7307	A	0.3
3	☐	500.000	485.110	1185338.60	1.1863	A	1.9
4	☐	1000.000	982.242	1913796.33	1.9827	A	1.3
5	☐	10000.00	9805.176	15294342.27	16.1180	A	0.9
6	☐	20000.00	20098.66	30282793.72	32.6092	A	1.6

y = 0.0016 * x + 0.4091
R = 0.9999
DL = 9.06
BEC = 255.3

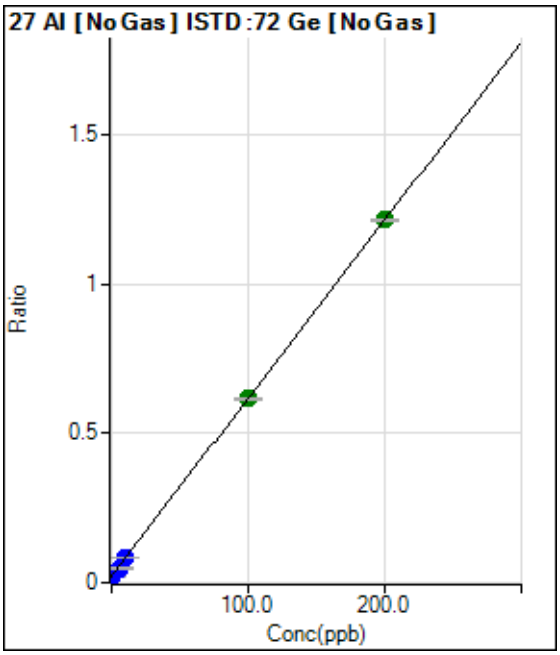
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2090.19	0.0021	P	5.0
2	☐	200.000	208.381	203682.59	0.1997	P	1.5
3	☐	500.000	518.372	493317.99	0.4937	P	2.5
4	☐	1000.000	998.856	916533.09	0.9495	A	0.8
5	☐	10000.00	9907.821	8919102.37	9.3994	A	1.0
6	☐	20000.00	20045.60	17658463.07	19.0149	A	2.0

y = 9.4848E-004 * x + 0.0021
R = 1.0000
DL = 0.329
BEC = 2.172

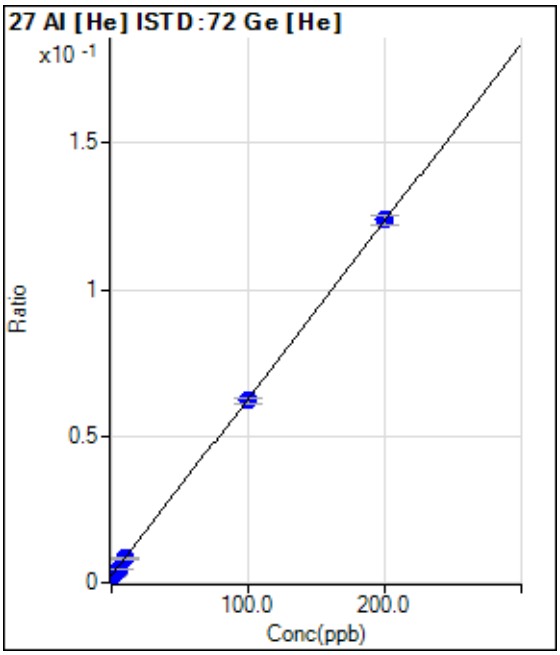
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	80465.61	0.0221	P	2.8
2	☐	2.000	1.712	116874.50	0.0323	P	0.7
3	☐	5.000	4.332	171734.99	0.0479	P	1.9
4	☐	10.000	10.410	292970.07	0.0841	P	1.2
5	☐	100.000	99.553	2127172.88	0.6151	A	1.1
6	☐	200.000	200.223	4103420.56	1.2147	A	0.7

y = 0.0060 * x + 0.0221
R = 1.0000
DL = 0.3119
BEC = 3.708

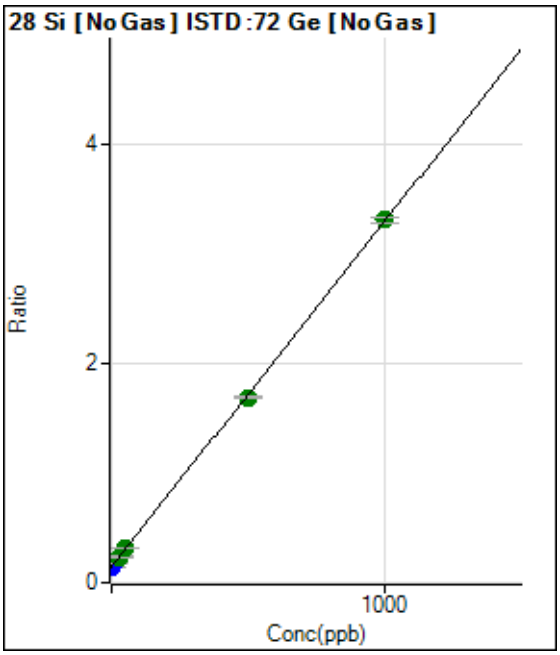
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2380.25	0.0023	P	5.1
2	☐	2.000	0.934	2970.39	0.0029	P	5.4
3	☐	5.000	3.827	4657.54	0.0047	P	2.1
4	☐	10.000	9.761	7965.76	0.0083	P	2.4
5	☐	100.000	98.629	58851.60	0.0620	P	3.8
6	☐	200.000	200.737	114955.96	0.1238	P	2.7

y = 6.0498E-004 * x + 0.0023
R = 1.0000
DL = 0.5965
BEC = 3.878

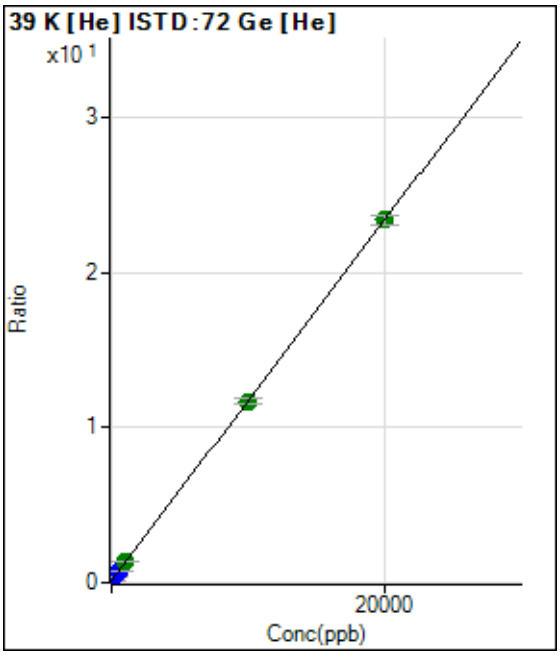
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	533592.86	0.1465	P	1.3
2	☐	10.000	9.183	634907.88	0.1754	P	0.5
3	☐	25.000	28.475	846847.82	0.2361	A	1.6
4	☐	50.000	55.351	1117588.42	0.3208	A	1.1
5	☐	500.000	489.794	5842025.33	1.6893	A	1.3
6	☐	1000.000	1004.757	11184969.00	3.3113	A	1.6

y = 0.0031 * x + 0.1465
R = 0.9999
DL = 1.809
BEC = 46.49

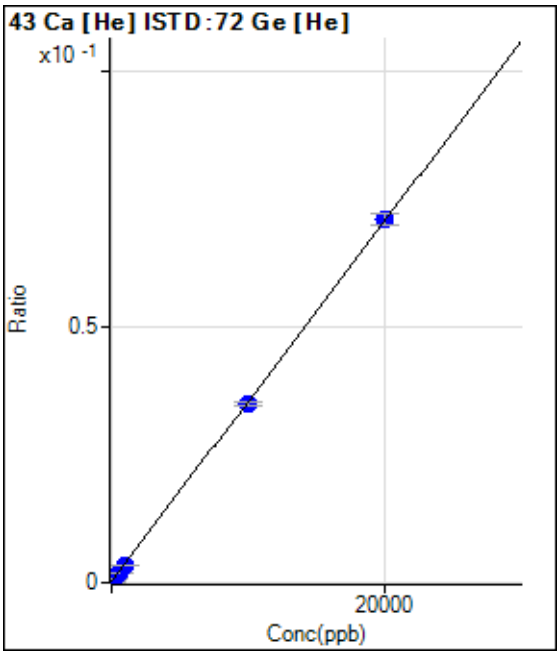
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	144189.43	0.1421	P	0.3
2	☐	200.000	202.590	384732.05	0.3772	P	1.7
3	☐	500.000	513.778	737741.29	0.7384	P	3.4
4	☐	1000.000	1025.473	1286272.27	1.3323	A	1.2
5	☐	10000.00	9950.370	11094047.75	11.6906	A	3.0
6	☐	20000.00	20023.17	21711610.51	23.3812	A	2.5

y = 0.0012 * x + 0.1421
R = 1.0000
DL = 1.092
BEC = 122.4

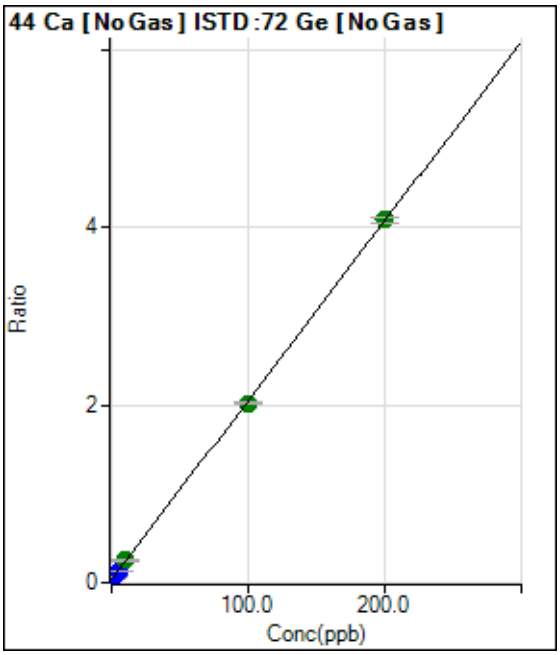
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	226.67	0.0002	P	41.9
2	☐	200.000	171.386	843.37	0.0008	P	3.7
3	☐	500.000	502.471	1990.18	0.0020	P	6.8
4	☐	1000.000	913.303	3317.14	0.0034	P	1.3
5	☐	10000.00	9853.743	33106.78	0.0349	P	1.4
6	☐	20000.00	20077.68	65797.44	0.0709	P	3.0

y = 3.5181E-006 * x + 2.2350E-004
R = 1.0000
DL = 79.81
BEC = 63.53

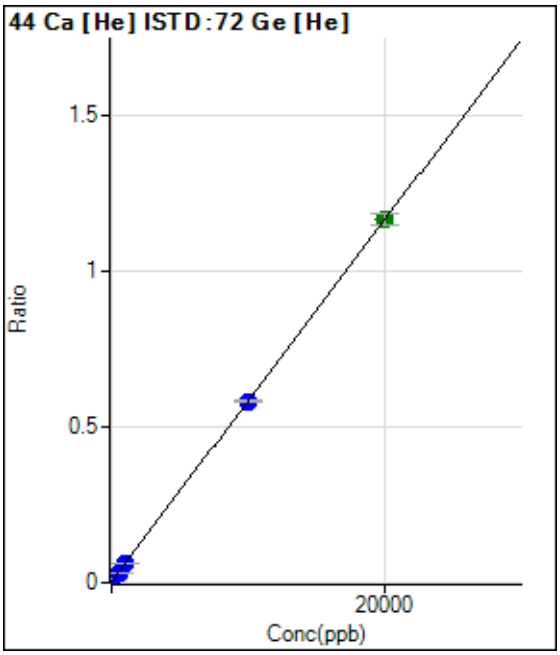
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	122558.28	0.0336	P	0.6
2	☐	2.000	1.896	260416.11	0.0719	P	0.6
3	☐	5.000	4.969	480523.60	0.1340	P	1.8
4	☐	10.000	10.751	873532.54	0.2508	A	2.2
5	☐	100.000	98.476	6994482.81	2.0225	A	1.4
6	☐	200.000	200.726	13807274.38	4.0876	A	1.6

y = 0.0202 * x + 0.0336
R = 0.9999
DL = 0.03239
BEC = 1.665

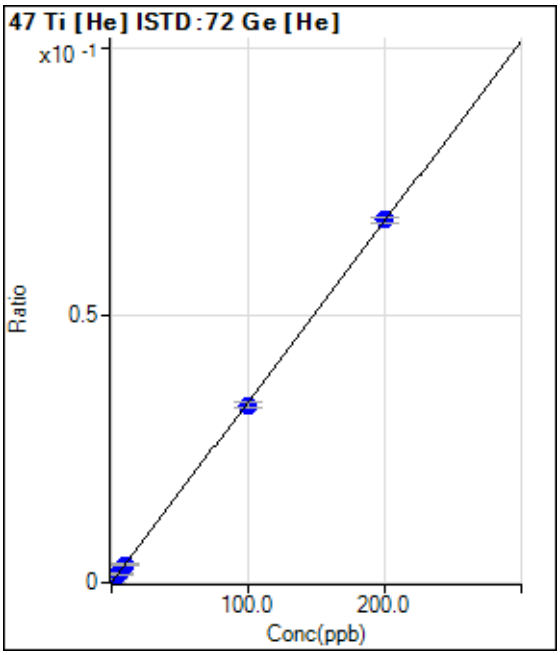
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4767.56	0.0047	P	2.1
2	☐	200.000	185.533	15775.91	0.0155	P	2.0
3	☐	500.000	478.569	32451.93	0.0325	P	2.2
4	☐	1000.000	977.016	59287.65	0.0614	P	1.9
5	☐	10000.00	9966.384	553411.06	0.5832	P	0.6
6	☐	20000.00	20018.63	1083349.90	1.1667	A	3.3

y = 5.8047E-005 * x + 0.0047
R = 1.0000
DL = 5.071
BEC = 80.96

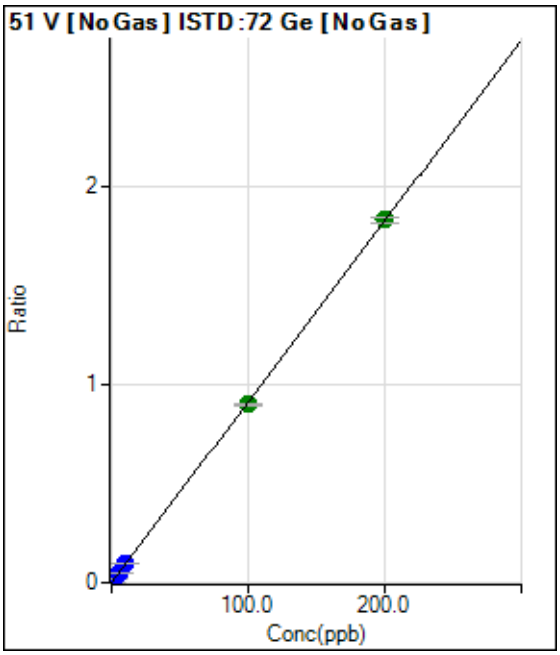
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	36.67	0.0000	P	16.2
2	☐	2.000	1.756	643.36	0.0006	P	19.0
3	☐	5.000	4.811	1660.14	0.0017	P	15.9
4	☐	10.000	9.904	3263.78	0.0034	P	2.8
5	☐	100.000	98.273	31539.90	0.0332	P	3.5
6	☐	200.000	200.875	63048.23	0.0679	P	1.6

y = 3.3782E-004 * x + 3.6157E-005
R = 0.9999
DL = 0.05197
BEC = 0.107

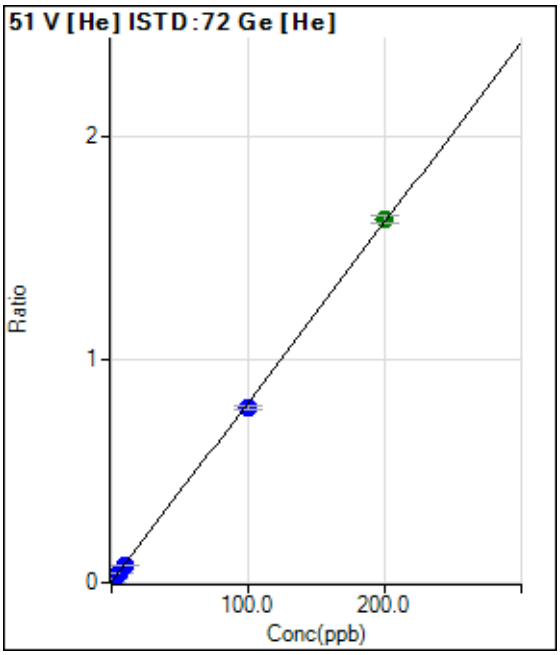
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	-1226.17	-0.0003	P	-114.3
2	☐	2.000	1.955	63210.34	0.0175	P	4.2
3	☐	5.000	5.066	164209.95	0.0458	P	4.5
4	☐	10.000	10.191	322100.85	0.0925	P	1.6
5	☐	100.000	98.507	3100718.75	0.8966	A	1.6
6	☐	200.000	200.736	6172676.73	1.8275	A	1.9

y = 0.0091 * x - 3.3653E-004
R = 1.0000
DL = 0.1267
BEC = -0.03696

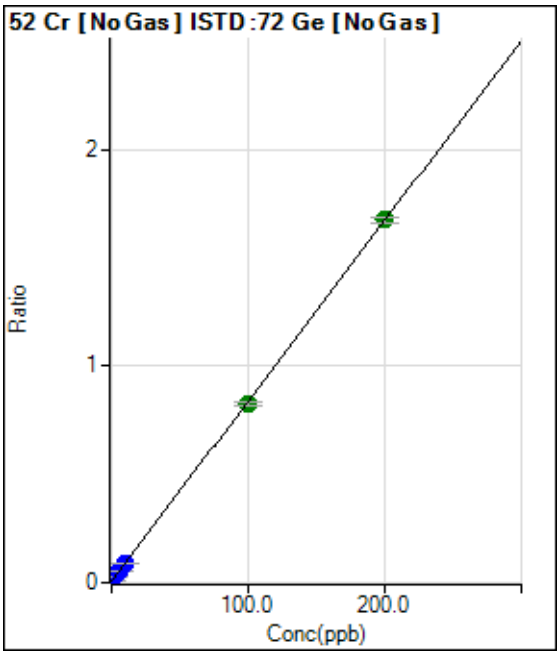
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2543.71	0.0025	P	11.4
2	☐	2.000	1.848	17757.27	0.0174	P	3.9
3	☐	5.000	4.879	41810.45	0.0419	P	4.6
4	☐	10.000	9.574	77004.91	0.0797	P	5.2
5	☐	100.000	97.310	747073.83	0.7873	P	2.1
6	☐	200.000	201.371	1510333.21	1.6265	A	2.2

y = 0.0081 * x + 0.0025
R = 0.9999
DL = 0.1064
BEC = 0.3109

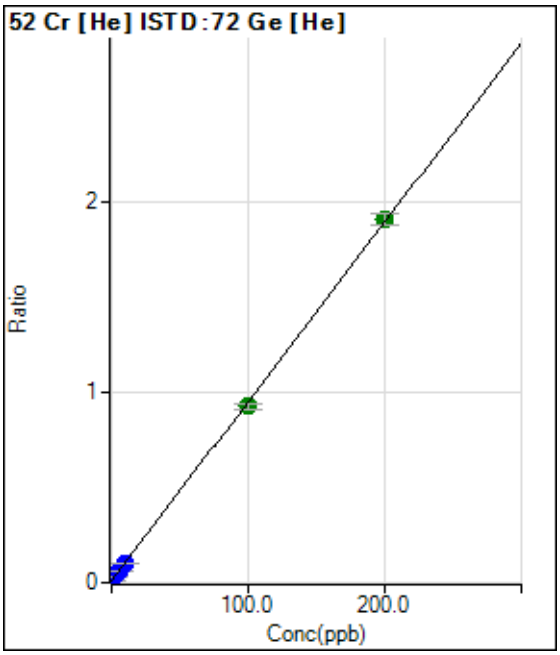
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	20786.02	0.0057	P	2.6
2	☐	2.000	2.077	83299.23	0.0230	P	1.1
3	☐	5.000	5.239	176967.89	0.0493	P	0.4
4	☐	10.000	10.391	321425.57	0.0923	P	1.4
5	☐	100.000	98.732	2863852.36	0.8281	A	1.9
6	☐	200.000	200.608	5663823.46	1.6768	A	1.6

y = 0.0083 * x + 0.0057
R = 1.0000
DL = 0.05299
BEC = 0.685

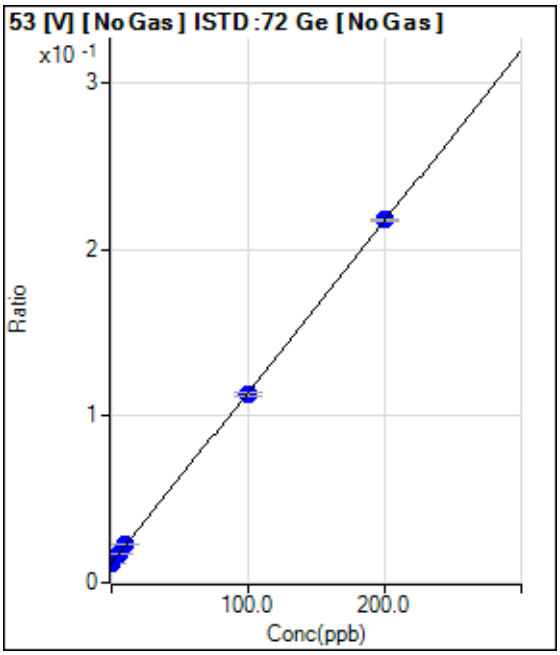
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	10087.23	0.0099	P	4.4
2	☐	2.000	2.078	30123.35	0.0295	P	0.5
3	☐	5.000	4.927	56342.85	0.0564	P	2.5
4	☐	10.000	9.797	98761.58	0.1023	P	1.7
5	☐	100.000	97.213	879073.66	0.9263	A	4.0
6	☐	200.000	201.405	1772172.47	1.9085	A	3.0

y = 0.0094 * x + 0.0099
R = 0.9999
DL = 0.1394
BEC = 1.055

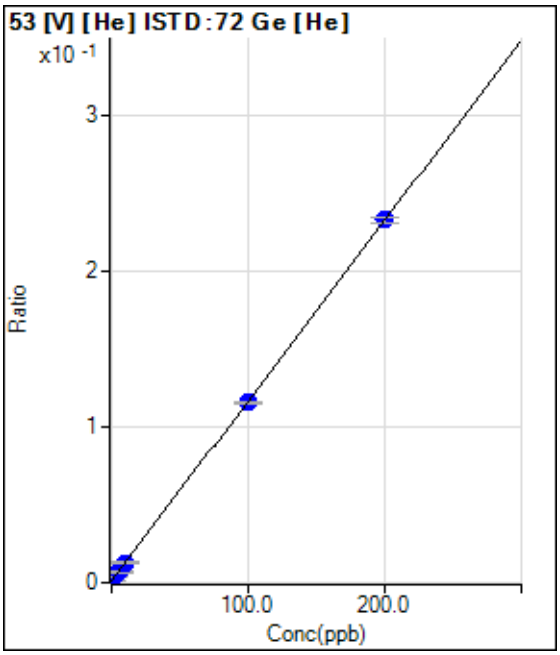
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	42763.91	0.0117	P	1.9
2	☐	2.000	2.914	53327.46	0.0147	P	0.5
3	☐	5.000	5.721	63172.48	0.0176	P	2.2
4	☐	10.000	11.090	80570.25	0.0231	P	1.5
5	☐	100.000	98.428	390191.19	0.1128	P	2.1
6	☐	200.000	200.705	735992.90	0.2179	P	0.8

y = 0.0010 * x + 0.0117
R = 0.9999
DL = 0.6361
BEC = 11.43

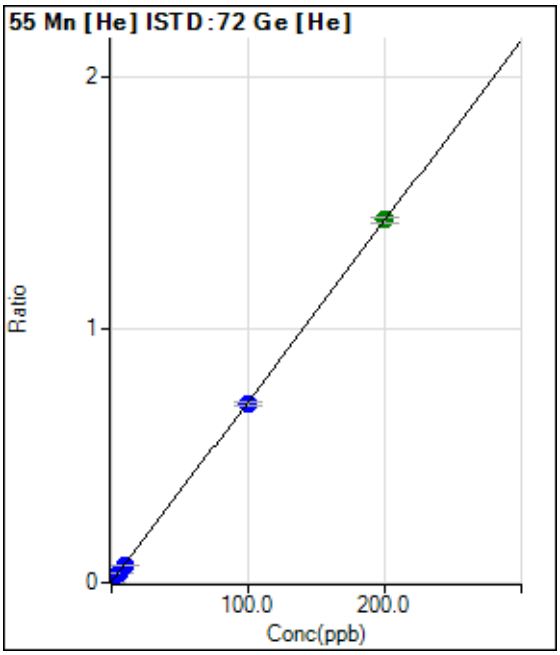
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1160.07	0.0011	P	9.2
2	☐	2.000	2.235	3800.60	0.0037	P	6.6
3	☐	5.000	4.889	6785.12	0.0068	P	1.2
4	☐	10.000	9.844	12068.84	0.0125	P	7.3
5	☐	100.000	99.070	109650.38	0.1156	P	1.0
6	☐	200.000	200.473	216059.41	0.2327	P	1.7

y = 0.0012 * x + 0.0011
R = 1.0000
DL = 0.2748
BEC = 0.9902

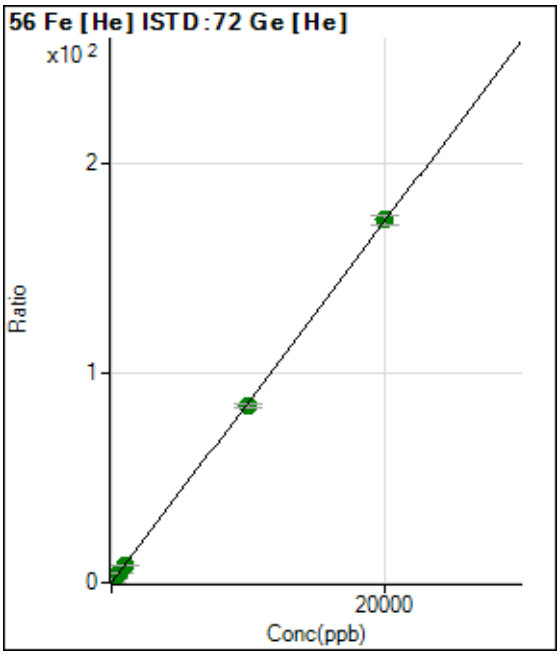
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2273.56	0.0022	P	8.2
2	☐	2.000	2.592	21186.90	0.0208	P	9.8
3	☐	5.000	5.059	38350.93	0.0384	P	1.9
4	☐	10.000	9.728	69242.03	0.0717	P	0.7
5	☐	100.000	98.992	673120.62	0.7093	P	1.7
6	☐	200.000	200.510	1332101.54	1.4345	A	1.3

y = 0.0071 * x + 0.0022
R = 1.0000
DL = 0.07726
BEC = 0.3136

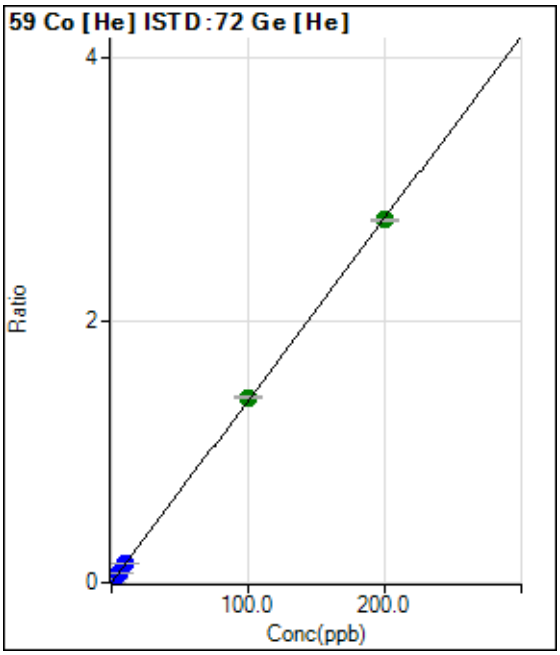
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	31767.25	0.0313	P	1.2
2	☐	200.000	204.716	1826819.09	1.7911	A	1.9
3	☐	500.000	492.973	4266068.37	4.2691	A	1.8
4	☐	1000.000	961.192	8006526.76	8.2942	A	0.5
5	☐	10000.00	9803.895	80003575.47	84.3101	A	1.6
6	☐	20000.00	20100.12	160487494.2	172.821	A	2.5

y = 0.0086 * x + 0.0313
R = 0.9999
DL = 0.1274
BEC = 3.642

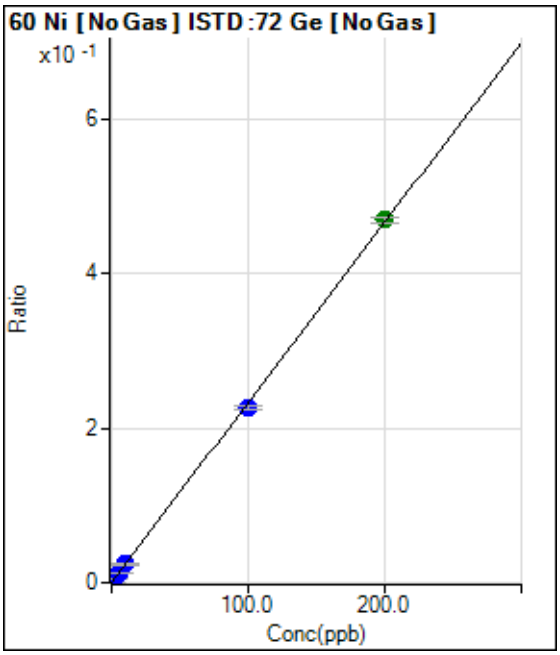
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	176.67	0.0002	P	13.3
2	☐	2.000	2.017	28740.61	0.0282	P	2.3
3	☐	5.000	5.007	69624.54	0.0697	P	0.7
4	☐	10.000	10.070	135135.37	0.1400	P	1.0
5	☐	100.000	101.609	1338571.39	1.4107	A	0.8
6	☐	200.000	199.192	2568188.24	2.7653	A	0.5

y = 0.0139 * x + 1.7417E-004
R = 1.0000
DL = 0.005023
BEC = 0.01255

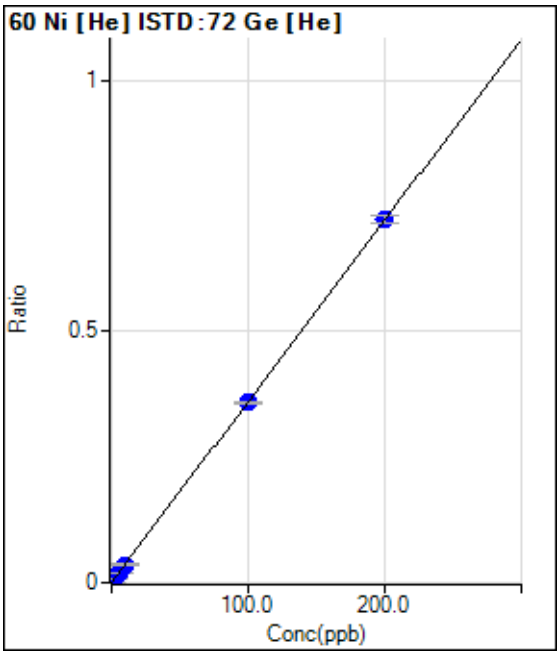
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1416.76	0.0004	P	4.3
2	☐	2.000	2.009	18356.01	0.0051	P	2.3
3	☐	5.000	5.074	43797.51	0.0122	P	2.5
4	☐	10.000	10.086	83233.58	0.0239	P	2.0
5	☐	100.000	96.900	782277.88	0.2262	P	1.8
6	☐	200.000	201.544	1587996.69	0.4701	A	1.8

y = 0.0023 * x + 3.8893E-004
R = 0.9998
DL = 0.02162
BEC = 0.1669

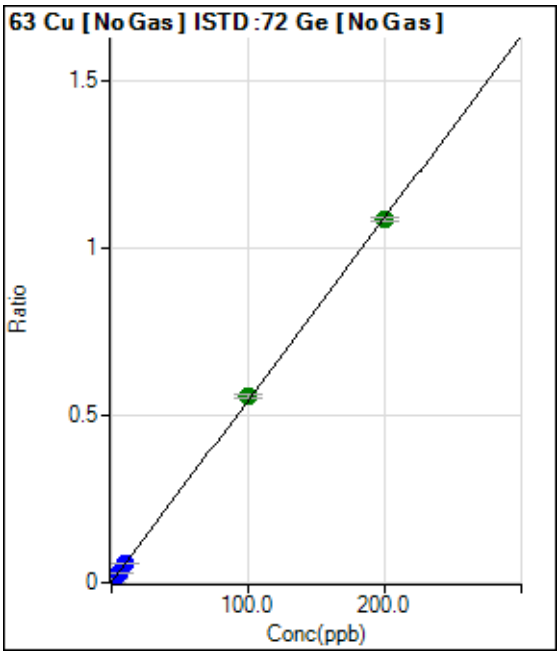
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	503.35	0.0005	P	21.3
2	☐	2.000	2.118	8282.65	0.0081	P	5.0
3	☐	5.000	4.972	18375.96	0.0184	P	3.6
4	☐	10.000	9.941	35028.72	0.0363	P	1.7
5	☐	100.000	99.349	339790.79	0.3581	P	0.5
6	☐	200.000	200.328	670037.41	0.7216	P	2.3

y = 0.0036 * x + 4.9576E-004
R = 1.0000
DL = 0.08792
BEC = 0.1377

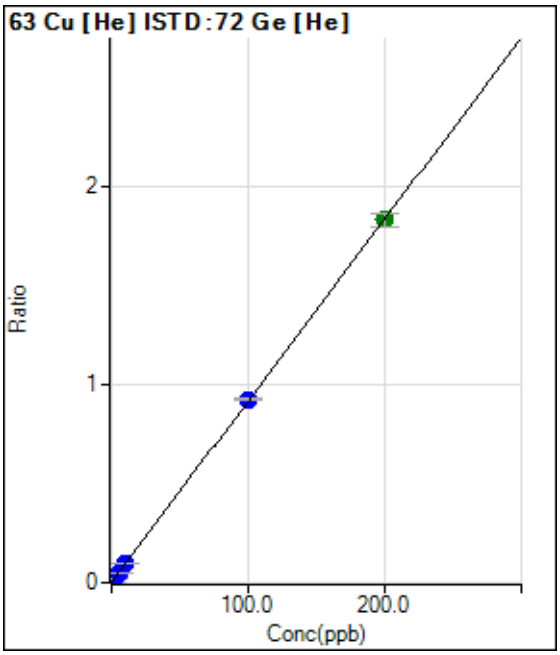
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3407.17	0.0009	P	8.5
2	☐	2.000	2.047	43760.68	0.0121	P	1.6
3	☐	5.000	5.022	101461.08	0.0283	P	2.2
4	☐	10.000	10.190	196634.55	0.0564	P	1.6
5	☐	100.000	102.138	1927148.31	0.5573	A	2.9
6	☐	200.000	198.920	3663417.45	1.0845	A	1.0

y = 0.0054 * x + 9.3583E-004
R = 0.9999
DL = 0.04401
BEC = 0.1718

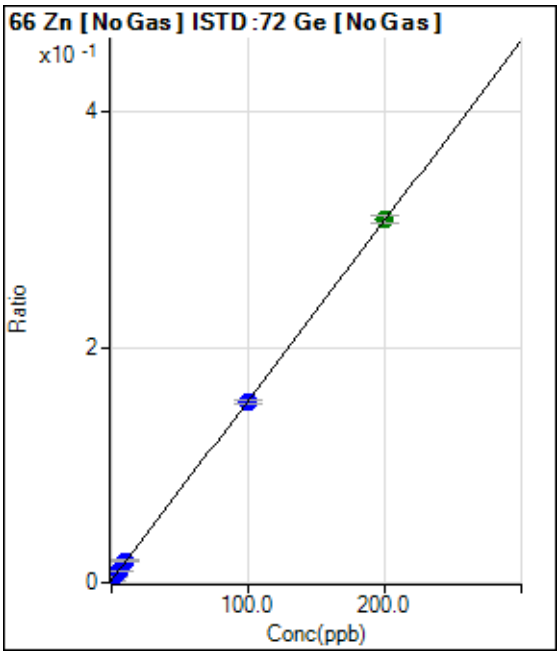
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1533.45	0.0015	P	7.4
2	☐	2.000	1.981	20078.46	0.0197	P	0.8
3	☐	5.000	5.037	47687.22	0.0477	P	2.9
4	☐	10.000	10.012	90144.95	0.0934	P	0.5
5	☐	100.000	100.589	877295.14	0.9245	P	1.2
6	☐	200.000	199.704	1702863.88	1.8340	A	3.4

y = 0.0092 * x + 0.0015
R = 1.0000
DL = 0.03643
BEC = 0.1647

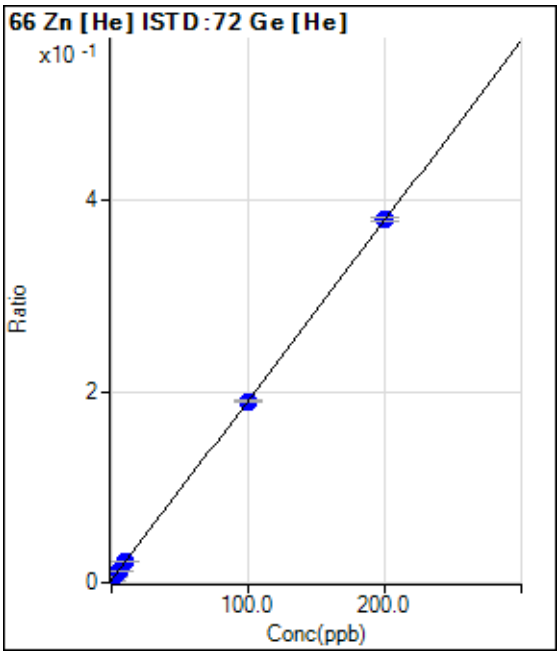
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	7048.64	0.0019	P	2.6
2	☐	2.000	2.460	20609.31	0.0057	P	3.0
3	☐	5.000	5.076	34744.97	0.0097	P	4.3
4	☐	10.000	10.932	64925.47	0.0186	P	2.0
5	☐	100.000	99.178	530668.25	0.1535	P	1.9
6	☐	200.000	200.358	1040442.28	0.3080	A	2.2

y = 0.0015 * x + 0.0019
R = 1.0000
DL = 0.09962
BEC = 1.266

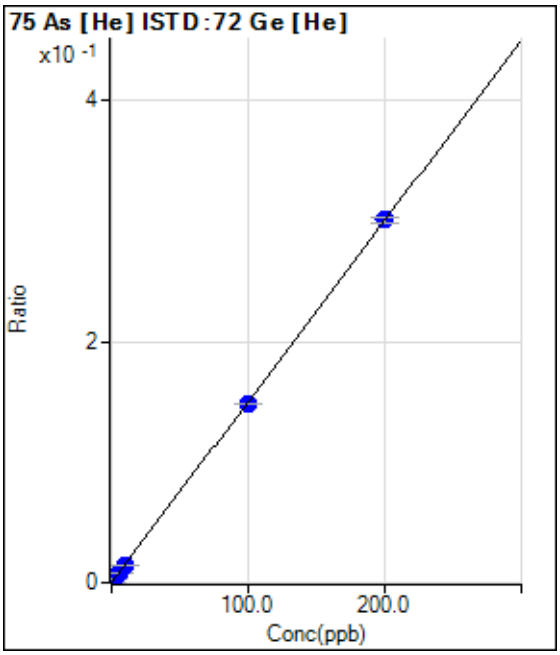
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2556.96	0.0025	P	0.4
2	☐	2.000	2.308	7005.26	0.0069	P	1.6
3	☐	5.000	4.811	11571.79	0.0116	P	1.8
4	☐	10.000	10.621	21741.04	0.0225	P	1.1
5	☐	100.000	99.251	179754.17	0.1894	P	1.0
6	☐	200.000	200.345	352731.58	0.3798	P	1.0

y = 0.0019 * x + 0.0025
R = 1.0000
DL = 0.01457
BEC = 1.338

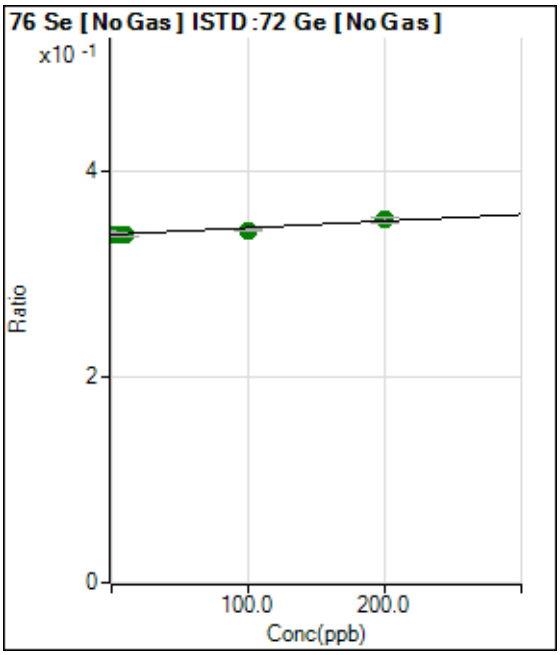
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	216.67	0.0002	P	6.4
2	☐	2.000	1.999	3277.08	0.0032	P	6.7
3	☐	5.000	4.872	7512.13	0.0075	P	1.1
4	☐	10.000	9.657	14186.39	0.0147	P	2.6
5	☐	100.000	98.762	140688.93	0.1483	P	0.9
6	☐	200.000	200.640	279515.29	0.3010	P	1.8

y = 0.0015 * x + 2.1352E-004
R = 1.0000
DL = 0.02727
BEC = 0.1424

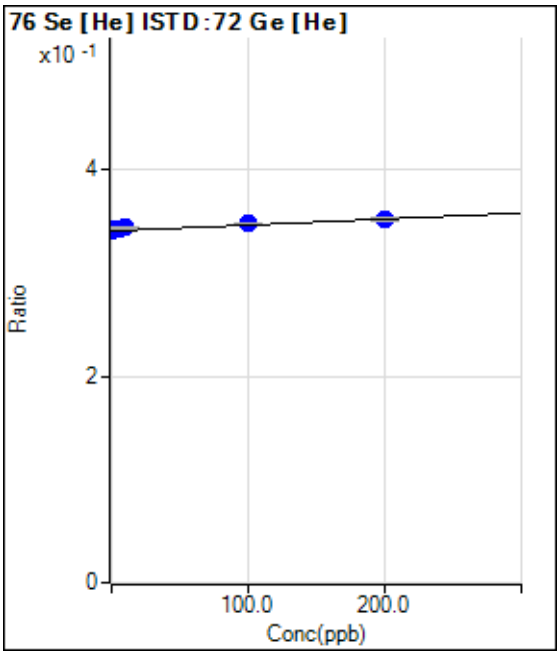
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1230475.68	0.3377	A	0.4
2	☐	2.000	-8.551	1220437.51	0.3371	A	0.9
3	☐	5.000	11.843	1213720.29	0.3385	A	1.9
4	☐	10.000	-10.639	1174067.51	0.3370	A	1.2
5	☐	100.000	68.803	1183488.32	0.3422	A	0.5
6	☐	200.000	216.565	1188486.52	0.3519	A	1.8

y = 6.5479E-005 * x + 0.3377
R = 0.9813
DL = 57.9
BEC = 5157

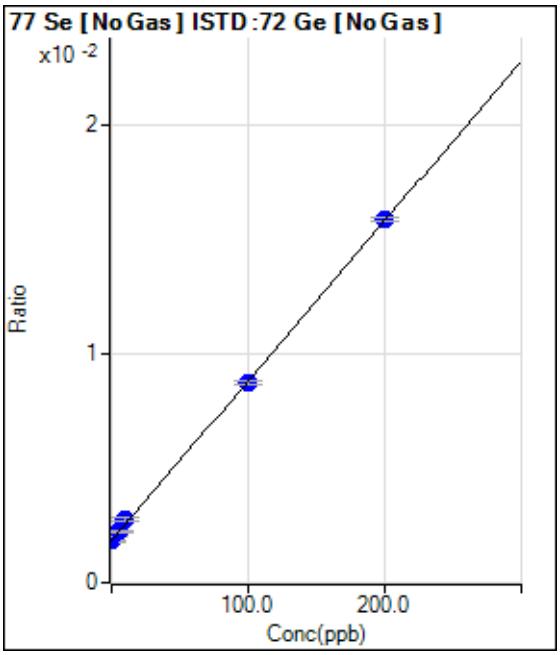
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	345405.77	0.3404	P	1.0
2	☐	2.000	23.651	348616.06	0.3418	P	1.4
3	☐	5.000	40.295	342528.23	0.3428	P	1.2
4	☐	10.000	52.646	331615.96	0.3435	P	0.8
5	☐	100.000	124.599	329915.58	0.3477	P	0.6
6	☐	200.000	184.469	326116.34	0.3512	P	0.9

y = 5.8199E-005 * x + 0.3404
R = 0.9703
DL = 173.5
BEC = 5850

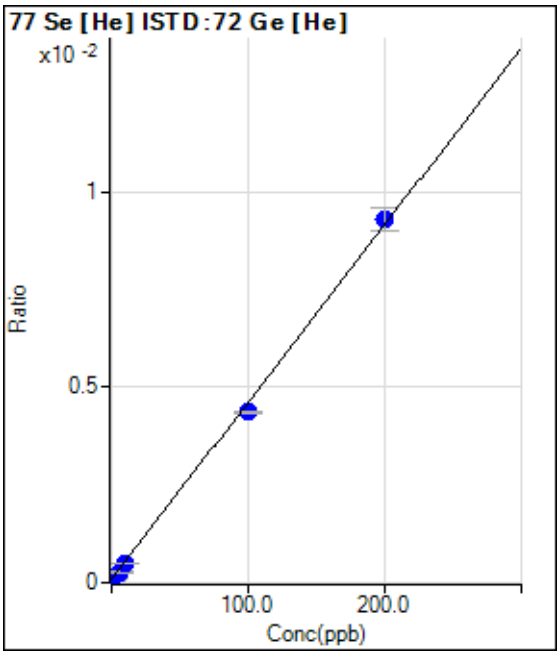
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6718.46	0.0018	P	4.3
2	☐	2.000	3.258	7498.93	0.0021	P	4.8
3	☐	5.000	5.607	8019.18	0.0022	P	3.6
4	☐	10.000	13.157	9626.97	0.0028	P	6.2
5	☐	100.000	98.348	30143.96	0.0087	P	2.2
6	☐	200.000	200.640	53587.03	0.0159	P	1.1

y = 6.9877E-005 * x + 0.0018
R = 0.9998
DL = 3.375
BEC = 26.39

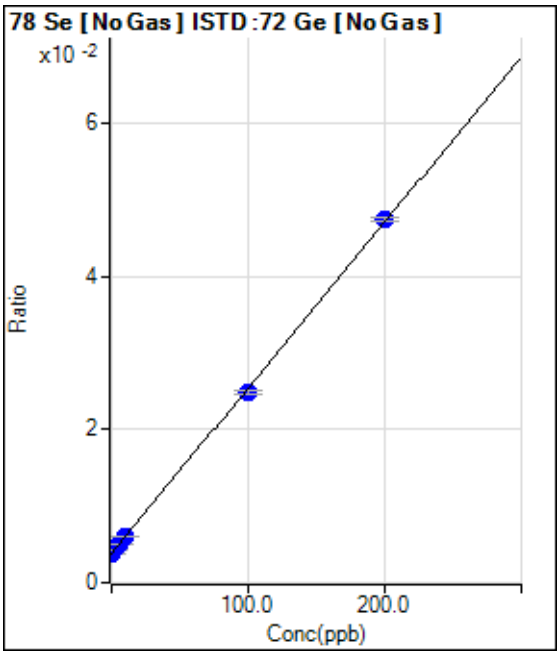
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	90.00	0.0001	P	34.0
2	☐	2.000	1.152	143.34	0.0001	P	39.4
3	☐	5.000	3.929	266.67	0.0003	P	28.6
4	☐	10.000	8.859	473.35	0.0005	P	8.7
5	☐	100.000	94.355	4144.06	0.0044	P	1.3
6	☐	200.000	202.915	8626.26	0.0093	P	6.2

y = 4.5343E-005 * x + 8.8844E-005
R = 0.9995
DL = 2.001
BEC = 1.959

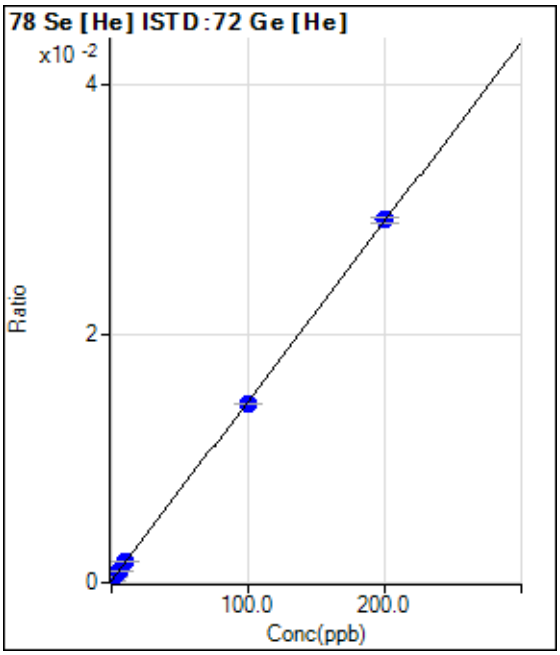
Weight: <None>
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13967.48	0.0038	P	2.3
2	☐	2.000	1.673	15182.12	0.0042	P	1.9
3	☐	5.000	5.787	18225.90	0.0051	P	0.6
4	☐	10.000	10.199	21026.73	0.0060	P	1.2
5	☐	100.000	96.991	85714.96	0.0248	P	1.7
6	☐	200.000	201.478	159969.10	0.0474	P	1.0

y = 2.1603E-004 * x + 0.0038
R = 0.9998
DL = 1.228
BEC = 17.74

Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	182.67	0.0002	P	8.6
2	☐	2.000	1.869	458.68	0.0004	P	7.1
3	☐	5.000	4.994	900.03	0.0009	P	8.5
4	☐	10.000	10.130	1584.76	0.0016	P	1.8
5	☐	100.000	98.154	13607.56	0.0143	P	0.4
6	☐	200.000	200.918	27085.11	0.0292	P	1.4

y = 1.4427E-004 * x + 1.7996E-004

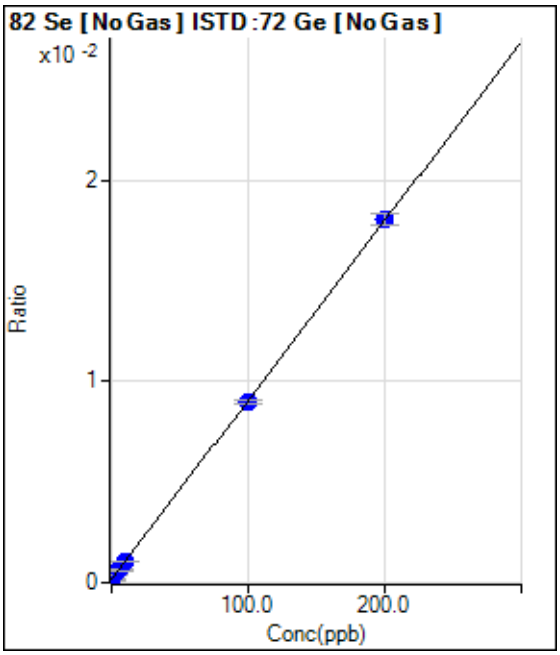
R = 0.9999

DL = 0.323

BEC = 1.247

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	580.02	0.0002	P	23.6
2	☐	2.000	2.454	1366.76	0.0004	P	1.0
3	☐	5.000	5.555	2343.59	0.0007	P	10.3
4	☐	10.000	10.042	3667.24	0.0011	P	8.5
5	☐	100.000	98.718	30942.77	0.0089	P	2.5
6	☐	200.000	200.620	60864.89	0.0180	P	3.1

y = 8.9030E-005 * x + 1.5903E-004

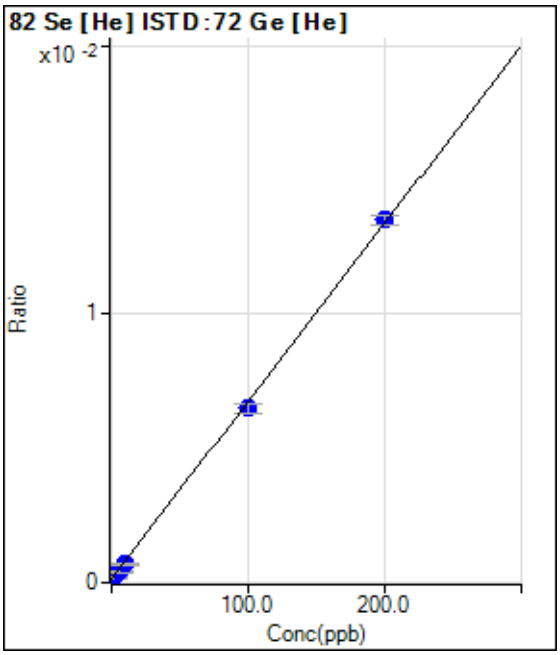
R = 1.0000

DL = 1.262

BEC = 1.786

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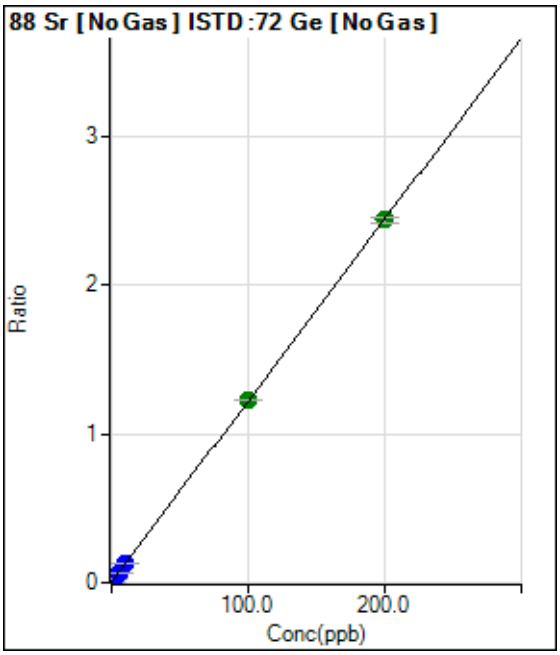
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	143.33	0.0001	P	20.7
2	☐	2.000	0.884	203.34	0.0002	P	38.2
3	☐	5.000	3.966	403.35	0.0004	P	6.8
4	☐	10.000	8.187	660.03	0.0007	P	17.3
5	☐	100.000	96.147	6168.19	0.0065	P	5.6
6	☐	200.000	202.054	12539.45	0.0135	P	2.8

y = 6.6129E-005 * x + 1.4112E-004
R = 0.9998
DL = 1.322
BEC = 2.134

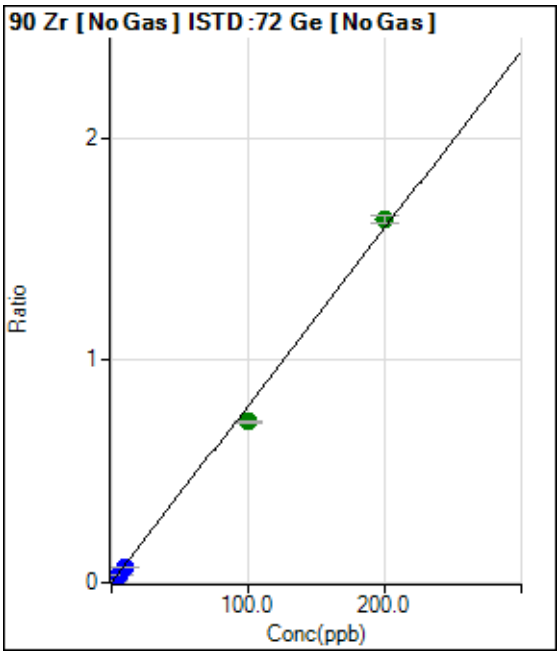
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	12883.08	0.0035	P	1.0
2	☐	2.000	1.983	100173.31	0.0277	P	0.5
3	☐	5.000	5.030	232230.87	0.0648	P	1.1
4	☐	10.000	9.934	433562.35	0.1245	P	1.4
5	☐	100.000	100.257	4232954.21	1.2239	A	0.2
6	☐	200.000	199.874	8230072.79	2.4365	A	1.5

y = 0.0122 * x + 0.0035
R = 1.0000
DL = 0.008804
BEC = 0.2905

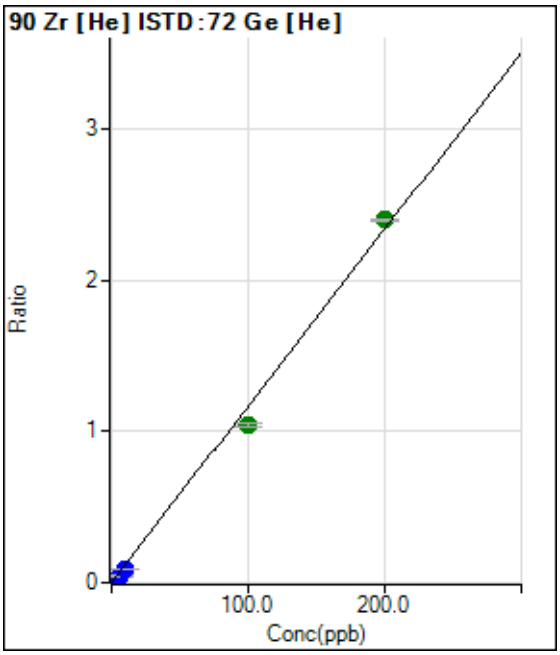
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1716.81	0.0005	P	5.2
2	☐	2.000	1.508	45196.68	0.0125	P	1.4
3	☐	5.000	3.974	115214.99	0.0321	P	1.0
4	☐	10.000	8.322	232585.92	0.0668	P	0.2
5	☐	100.000	90.653	2498730.12	0.7225	A	1.4
6	☐	200.000	204.788	5511615.13	1.6316	A	2.3

y = 0.0080 * x + 4.7090E-004
R = 0.9986
DL = 0.009243
BEC = 0.05912

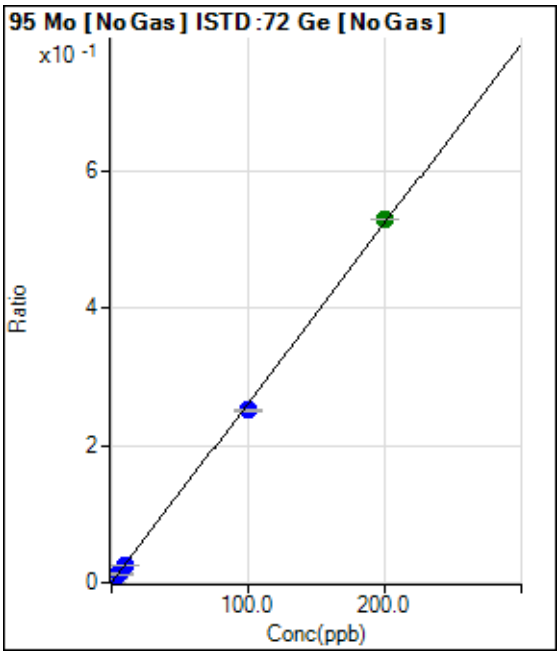
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1143.41	0.0011	P	4.0
2	☐	2.000	1.404	17888.98	0.0175	P	2.3
3	☐	5.000	3.712	44474.25	0.0445	P	3.6
4	☐	10.000	7.761	88676.52	0.0918	P	0.9
5	☐	100.000	89.480	993439.80	1.0470	A	1.8
6	☐	200.000	205.410	2230822.26	2.4021	A	0.4

y = 0.0117 * x + 0.0011
R = 0.9982
DL = 0.01163
BEC = 0.0964

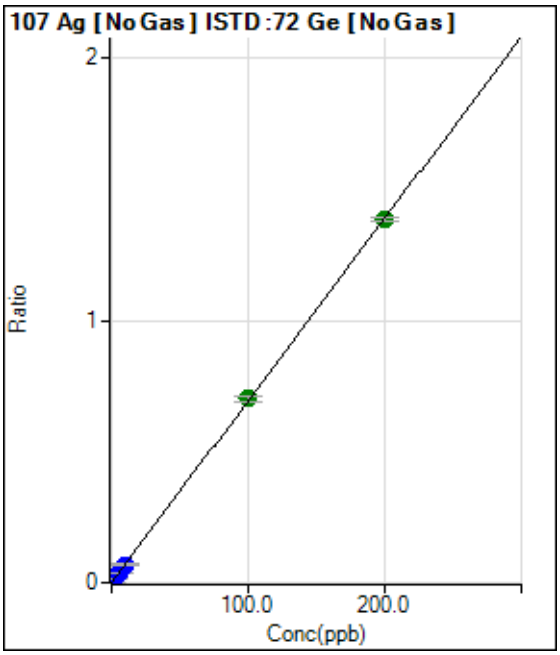
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	220.00	0.0001	P	36.0
2	☐	2.000	1.954	18730.18	0.0052	P	2.3
3	☐	5.000	4.807	45334.12	0.0126	P	2.6
4	☐	10.000	9.533	87137.41	0.0250	P	0.1
5	☐	100.000	95.985	869008.19	0.2513	P	1.4
6	☐	200.000	202.036	1786460.96	0.5288	A	0.1

y = 0.0026 * x + 6.0436E-005
R = 0.9997
DL = 0.02493
BEC = 0.02309

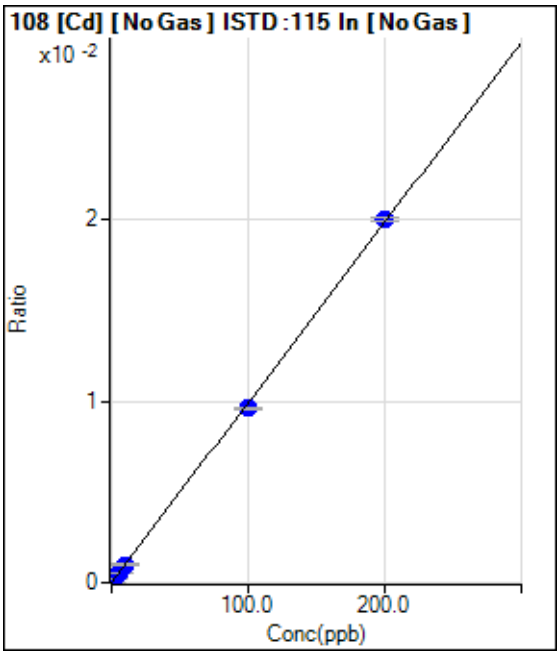
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	883.38	0.0002	P	8.2
2	☐	2.000	2.051	52417.52	0.0145	P	3.0
3	☐	5.000	5.030	126126.39	0.0352	P	1.7
4	☐	10.000	9.998	242667.00	0.0697	P	1.2
5	☐	100.000	101.289	2432532.88	0.7035	A	3.4
6	☐	200.000	199.354	4676170.14	1.3843	A	0.9

y = 0.0069 * x + 2.4230E-004
R = 1.0000
DL = 0.008609
BEC = 0.0349

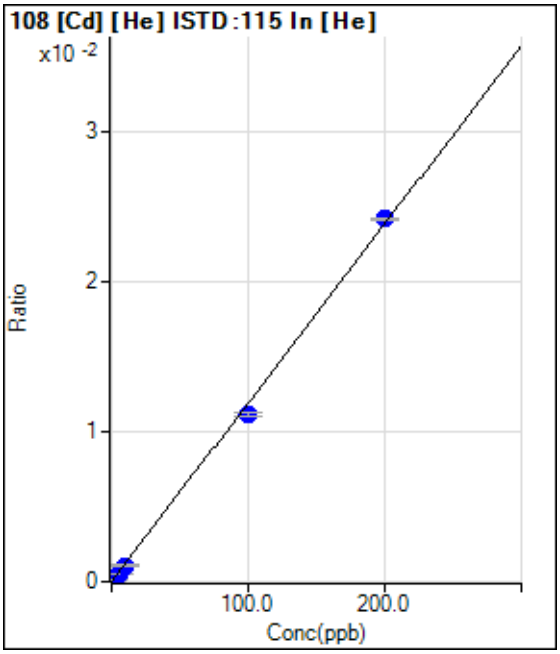
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6.67	0.0000	P	173.2
2	☐	2.000	1.889	766.70	0.0002	P	17.2
3	☐	5.000	5.036	2020.20	0.0005	P	3.4
4	☐	10.000	10.080	3964.01	0.0010	P	4.6
5	☐	100.000	96.907	36989.01	0.0096	P	1.2
6	☐	200.000	201.543	74764.32	0.0200	P	1.0

y = 9.9206E-005 * x + 1.6273E-006
R = 0.9998
DL = 0.08524
BEC = 0.0164

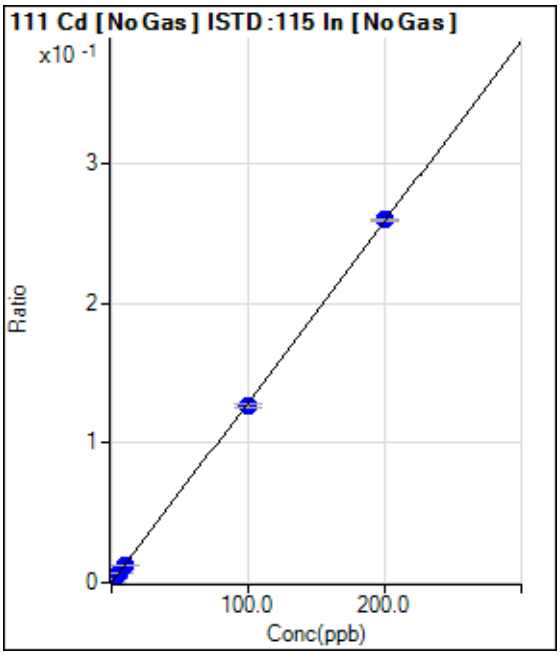
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	16.67	0.0000	P	67.9
2	☐	2.000	1.729	366.68	0.0002	P	36.1
3	☐	5.000	4.497	910.05	0.0005	P	7.8
4	☐	10.000	8.843	1726.81	0.0011	P	6.6
5	☐	100.000	94.035	17455.22	0.0112	P	2.4
6	☐	200.000	203.056	36133.15	0.0242	P	0.7

y = 1.1928E-004 * x + 9.7338E-006
R = 0.9994
DL = 0.1663
BEC = 0.0816

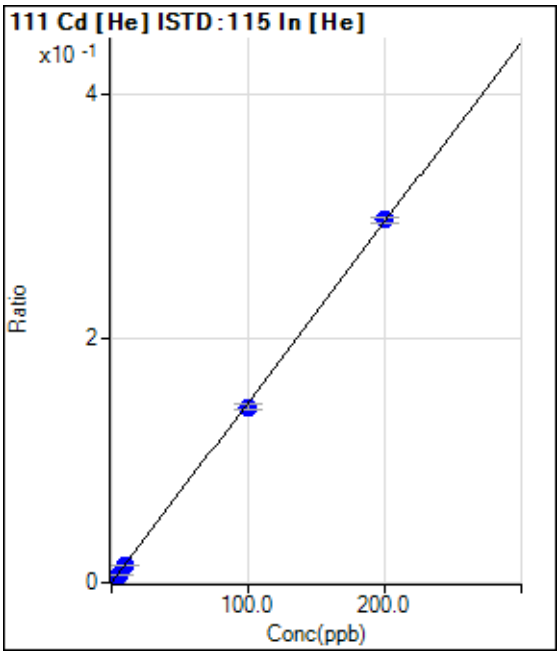
Weight: <None>
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	23.33	0.0000	P	48.6
2	☐	2.000	2.010	10574.39	0.0026	P	0.5
3	☐	5.000	4.966	25912.60	0.0064	P	2.9
4	☐	10.000	9.674	49506.54	0.0125	P	3.3
5	☐	100.000	98.018	487438.17	0.1267	P	1.6
6	☐	200.000	201.008	971521.73	0.2598	P	0.3

y = 0.0013 * x + 5.6988E-006
R = 0.9999
DL = 0.006424
BEC = 0.004409

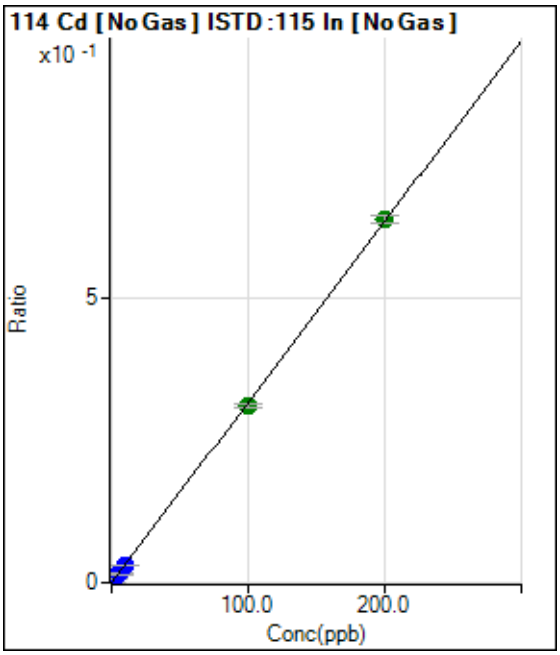
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	-11.22	0.0000	P	-161.7
2	☐	2.000	1.944	4871.01	0.0029	P	2.3
3	☐	5.000	4.555	11209.38	0.0067	P	2.7
4	☐	10.000	9.185	21968.99	0.0136	P	0.8
5	☐	100.000	97.458	223835.87	0.1440	P	3.7
6	☐	200.000	201.323	443447.71	0.2974	P	1.8

y = 0.0015 * x - 6.5003E-006
R = 0.9999
DL = 0.02134
BEC = -0.0044

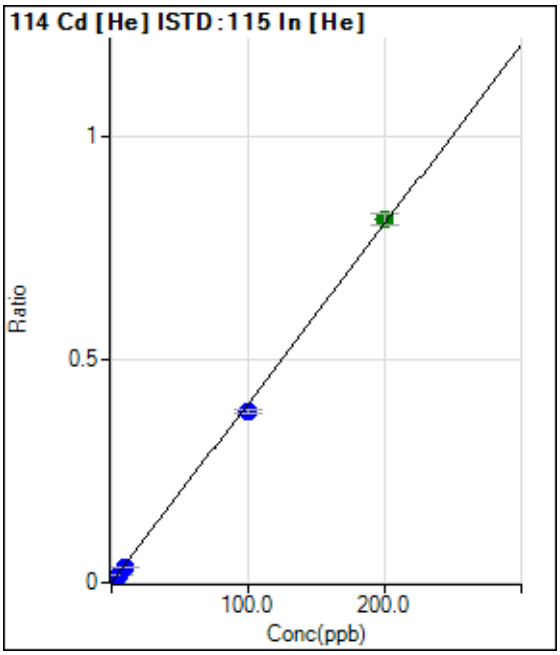
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	113.33	0.0000	P	33.6
2	☐	2.000	1.977	25628.66	0.0063	P	1.3
3	☐	5.000	4.795	61527.31	0.0153	P	1.4
4	☐	10.000	9.396	118278.62	0.0299	P	2.9
5	☐	100.000	98.030	1198356.54	0.3116	A	3.0
6	☐	200.000	201.020	2388507.20	0.6388	A	2.1

y = 0.0032 * x + 2.7851E-005
R = 0.9999
DL = 0.008825
BEC = 0.008764

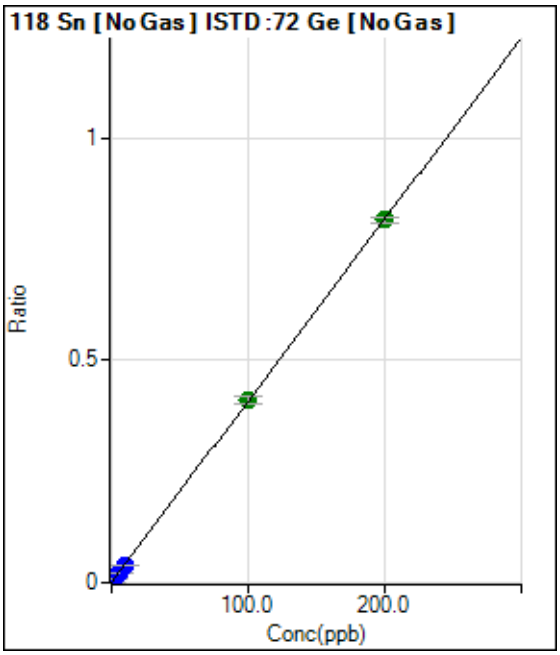
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	53.33	0.0000	P	46.2
2	☐	2.000	1.858	12739.69	0.0075	P	3.9
3	☐	5.000	4.530	30385.51	0.0182	P	0.6
4	☐	10.000	9.063	59039.47	0.0364	P	0.9
5	☐	100.000	95.524	596841.51	0.3838	P	1.5
6	☐	200.000	202.298	1211918.89	0.8128	A	3.1

y = 0.0040 * x + 3.1186E-005
R = 0.9997
DL = 0.01076
BEC = 0.007762

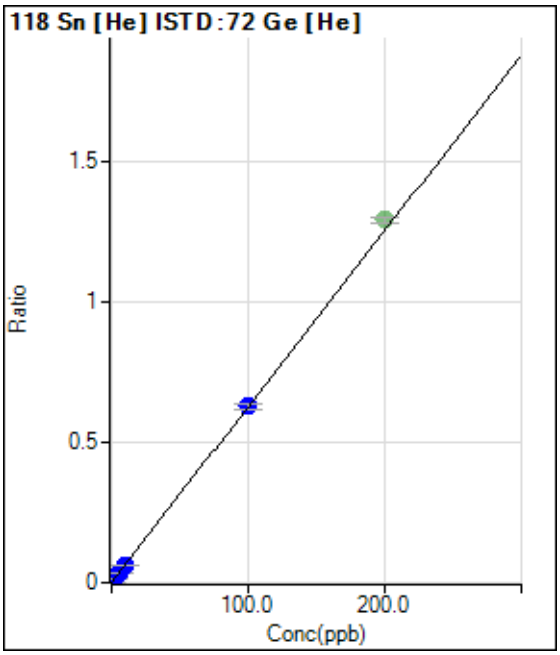
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2386.93	0.0007	P	9.9
2	☐	2.000	1.966	31401.21	0.0087	P	1.5
3	☐	5.000	4.984	75252.35	0.0210	P	2.4
4	☐	10.000	9.805	141622.79	0.0407	P	0.9
5	☐	100.000	100.488	1419751.02	0.4106	A	4.2
6	☐	200.000	199.767	2754728.19	0.8155	A	1.6

y = 0.0041 * x + 6.5562E-004
R = 1.0000
DL = 0.04754
BEC = 0.1607

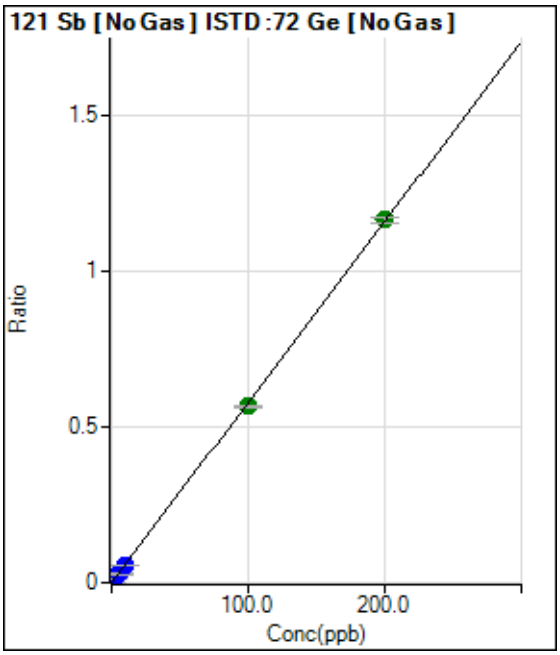
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Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1080.07	0.0011	P	8.0
2	☐	2.000	2.003	13900.88	0.0136	P	1.9
3	☐	5.000	5.001	32413.11	0.0324	P	3.7
4	☐	10.000	9.827	60509.58	0.0627	P	0.0
5	☐	100.000	100.017	596115.29	0.6282	P	2.4
6	☑	200.000		1202002.90	1.2944	A	1.5

y = 0.0063 * x + 0.0011
R = 1.0000
DL = 0.04051
BEC = 0.1698

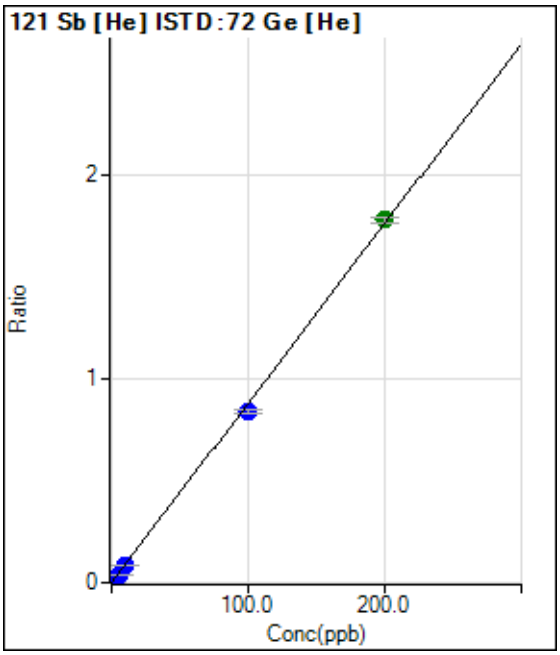
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	323.34	0.0001	P	6.6
2	☐	2.000	1.968	41546.30	0.0115	P	2.2
3	☐	5.000	4.859	101116.26	0.0282	P	3.4
4	☐	10.000	9.694	195683.03	0.0562	P	0.8
5	☐	100.000	97.756	1956255.39	0.5656	A	1.3
6	☐	200.000	201.141	3930758.48	1.1637	A	1.3

y = 0.0058 * x + 8.8745E-005
R = 0.9999
DL = 0.003037
BEC = 0.01534

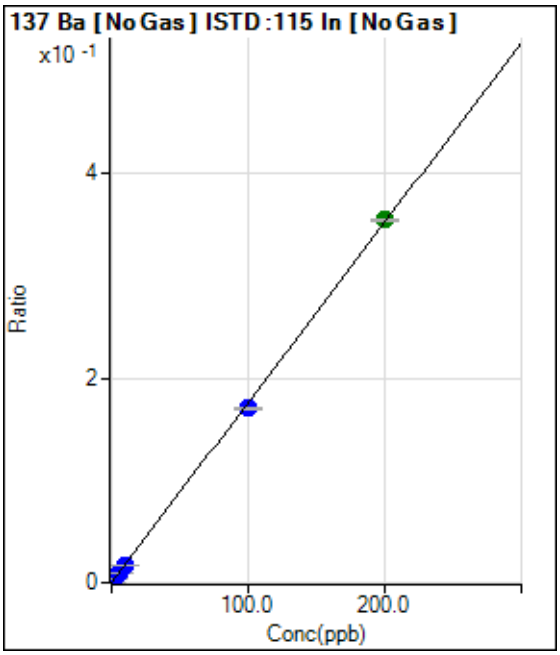
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	140.00	0.0001	P	46.3
2	☐	2.000	1.893	17134.87	0.0168	P	2.7
3	☐	5.000	4.705	41512.89	0.0415	P	3.0
4	☐	10.000	9.450	80436.34	0.0833	P	1.6
5	☐	100.000	95.769	800041.16	0.8431	P	2.2
6	☐	200.000	202.152	1652474.45	1.7795	A	1.4

y = 0.0088 * x + 1.3770E-004
R = 0.9997
DL = 0.02173
BEC = 0.01564

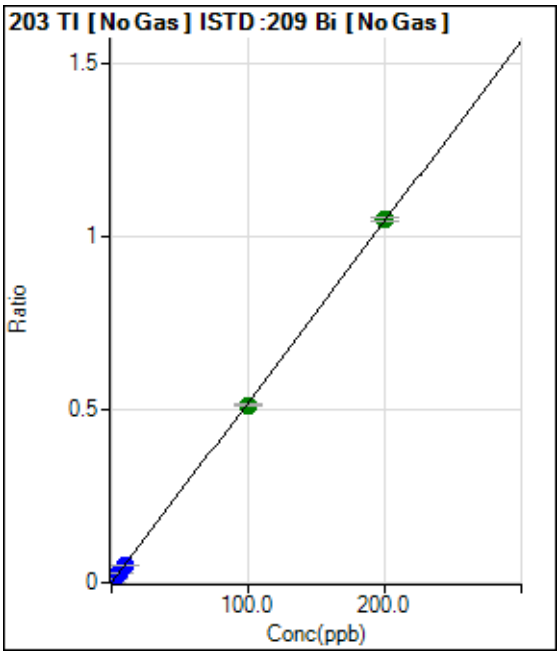
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	913.39	0.0002	P	11.5
2	☐	2.000	1.922	14638.47	0.0036	P	1.4
3	☐	5.000	4.769	34703.43	0.0086	P	0.3
4	☐	10.000	9.432	66517.15	0.0168	P	2.4
5	☐	100.000	96.986	656861.03	0.1708	P	1.2
6	☐	200.000	201.542	1325844.77	0.3546	A	0.3

y = 0.0018 * x + 2.2454E-004
R = 0.9998
DL = 0.04399
BEC = 0.1277

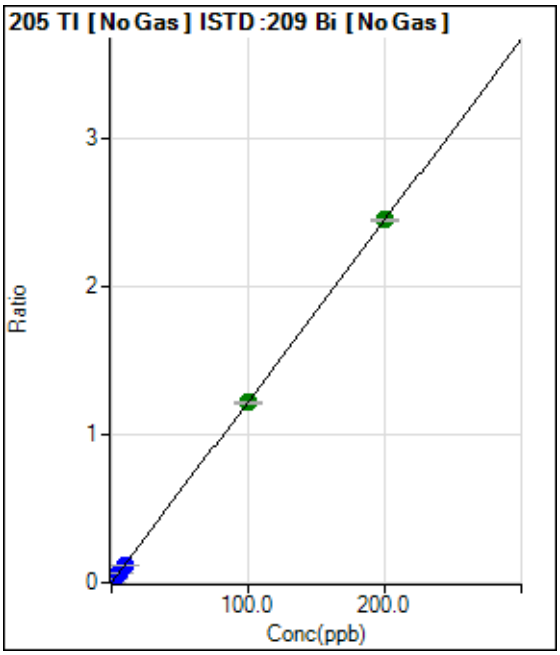
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	221.12	0.0001	P	13.2
2	☐	2.000	1.914	33226.43	0.0101	P	1.3
3	☐	5.000	4.959	83100.69	0.0260	P	1.8
4	☐	10.000	9.504	156924.25	0.0497	P	1.4
5	☐	100.000	98.117	1580204.38	0.5124	A	1.3
6	☐	200.000	200.968	3145840.92	1.0495	A	1.1

y = 0.0052 * x + 6.7399E-005
R = 0.9999
DL = 0.00511
BEC = 0.01291

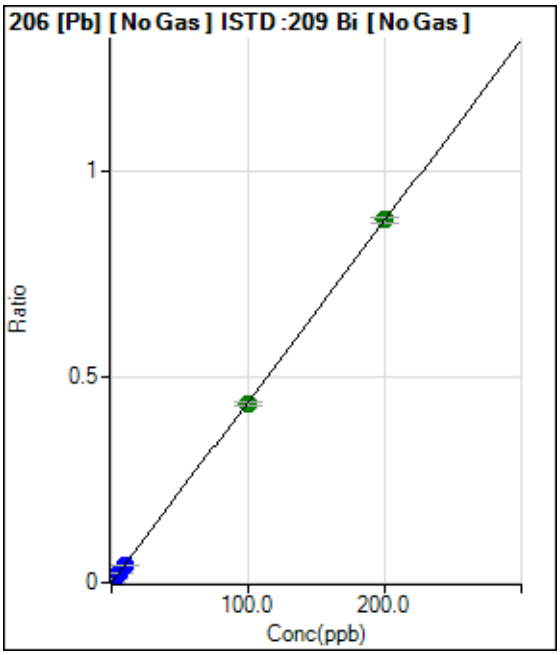
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	562.24	0.0002	P	9.3
2	☐	2.000	1.987	80654.46	0.0244	P	0.6
3	☐	5.000	5.072	198778.78	0.0621	P	0.4
4	☐	10.000	9.773	377337.98	0.1195	P	1.3
5	☐	100.000	99.438	3744582.63	1.2143	A	0.9
6	☐	200.000	200.291	7330544.43	2.4457	A	0.7

y = 0.0122 * x + 1.7125E-004
R = 1.0000
DL = 0.003898
BEC = 0.01403

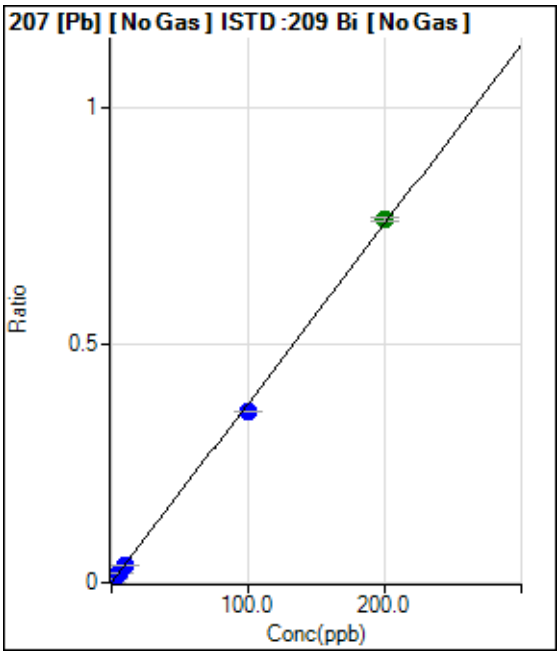
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	440.02	0.0001	P	5.2
2	☐	2.000	1.916	28305.76	0.0086	P	1.9
3	☐	5.000	4.847	68763.72	0.0215	P	1.6
4	☐	10.000	9.516	132769.44	0.0420	P	0.6
5	☐	100.000	99.049	1345721.18	0.4364	A	1.5
6	☐	200.000	200.504	2647504.75	0.8832	A	1.5

y = 0.0044 * x + 1.3402E-004
R = 1.0000
DL = 0.004741
BEC = 0.03043

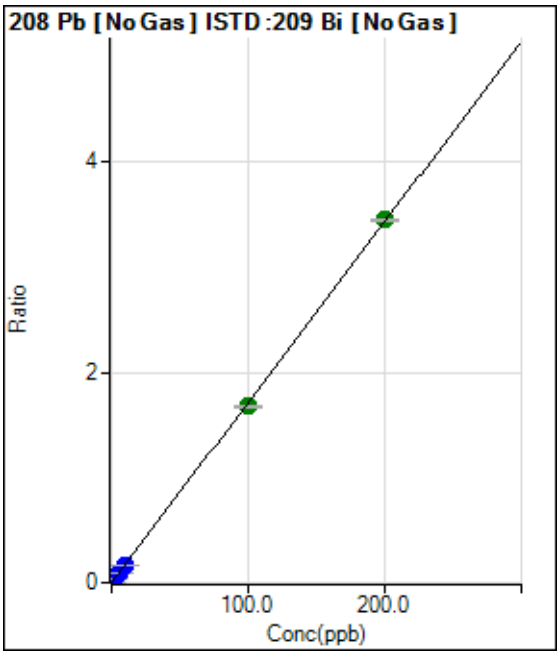
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	430.02	0.0001	P	12.6
2	☐	2.000	1.938	24581.38	0.0074	P	2.6
3	☐	5.000	4.936	60051.53	0.0188	P	0.2
4	☐	10.000	9.463	113177.74	0.0358	P	0.7
5	☐	100.000	95.417	1110879.02	0.3602	P	0.6
6	☐	200.000	202.320	2289008.30	0.7637	A	1.1

y = 0.0038 * x + 1.3098E-004
R = 0.9996
DL = 0.01307
BEC = 0.03471

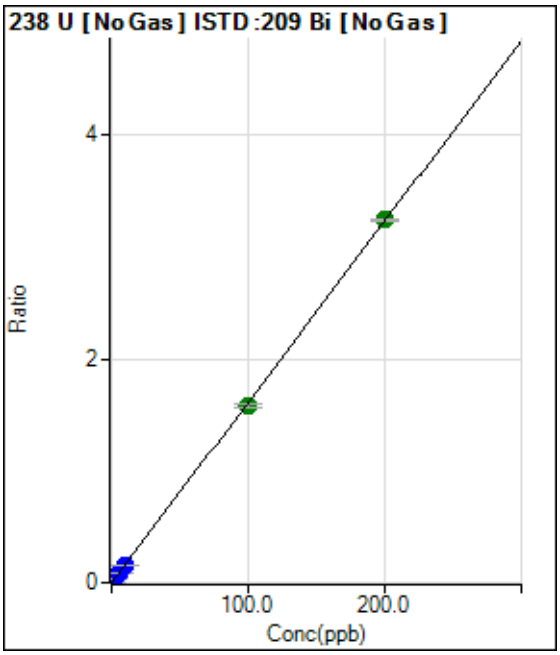
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1893.44	0.0006	P	5.8
2	☐	2.000	1.964	112993.13	0.0342	P	1.2
3	☐	5.000	4.954	273537.07	0.0855	P	1.0
4	☐	10.000	9.639	523291.72	0.1657	P	0.1
5	☐	100.000	97.781	5167866.51	1.6758	A	1.3
6	☐	200.000	201.129	10330379.84	3.4465	A	0.7

y = 0.0171 * x + 5.7676E-004
R = 0.9999
DL = 0.005889
BEC = 0.03366

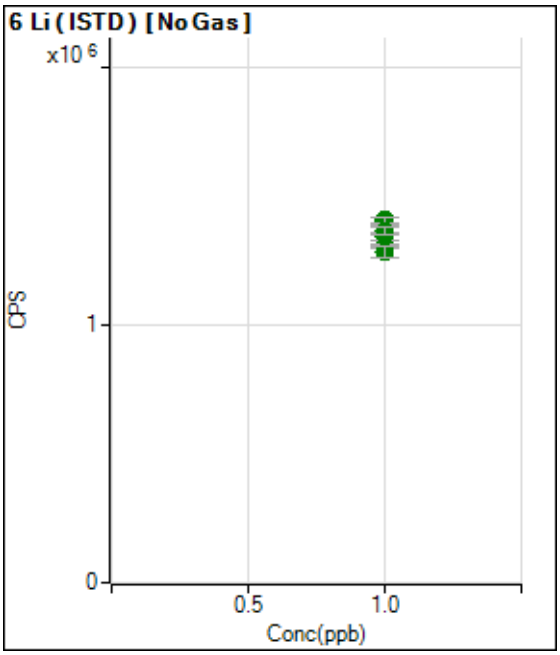
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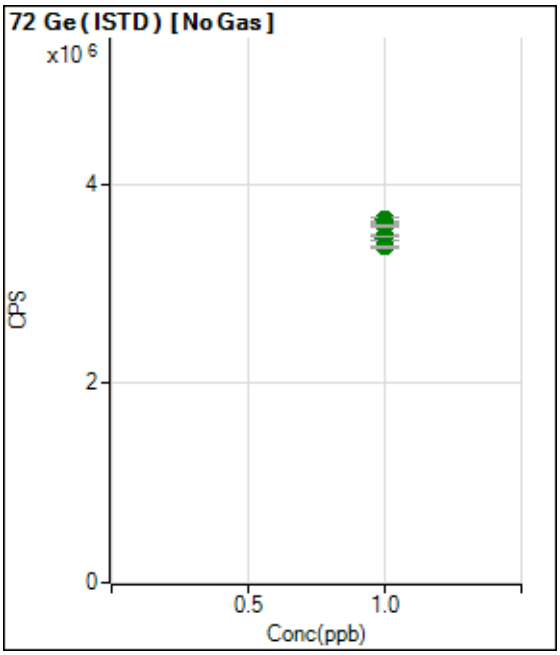
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	316.68	0.0001	P	27.9
2	☐	2.000	1.939	103610.33	0.0314	P	1.8
3	☐	5.000	4.835	250047.56	0.0781	P	1.1
4	☐	10.000	9.493	483882.65	0.1533	P	1.8
5	☐	100.000	98.194	4885894.62	1.5843	A	1.8
6	☐	200.000	200.933	9717280.90	3.2419	A	0.7

y = 0.0161 * x + 9.6635E-005
R = 0.9999
DL = 0.005017
BEC = 0.00599

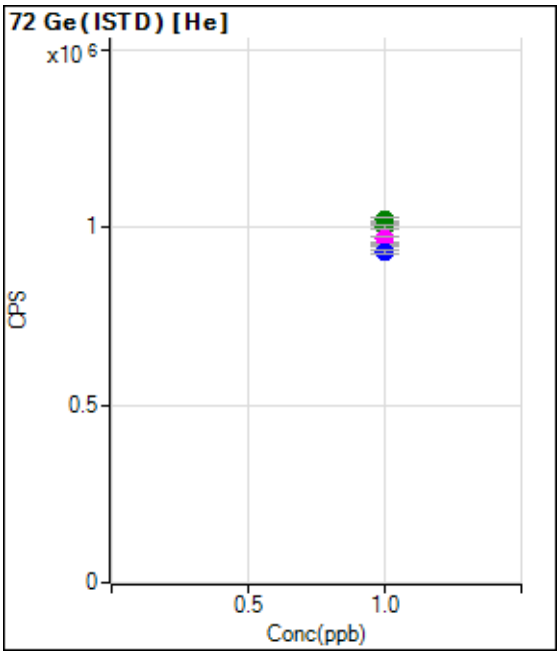
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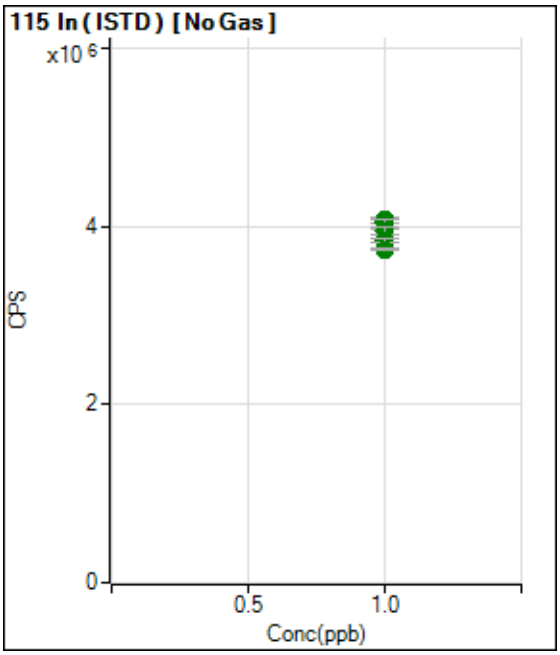
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1404381.15		A	2.5
2	☐	1.000		1410194.32		A	1.9
3	☐	1.000		1347990.61		A	2.1
4	☐	1.000		1364699.02		A	2.3
5	☐	1.000		1308366.01		A	1.2
6	☐	1.000		1284119.60		A	3.7



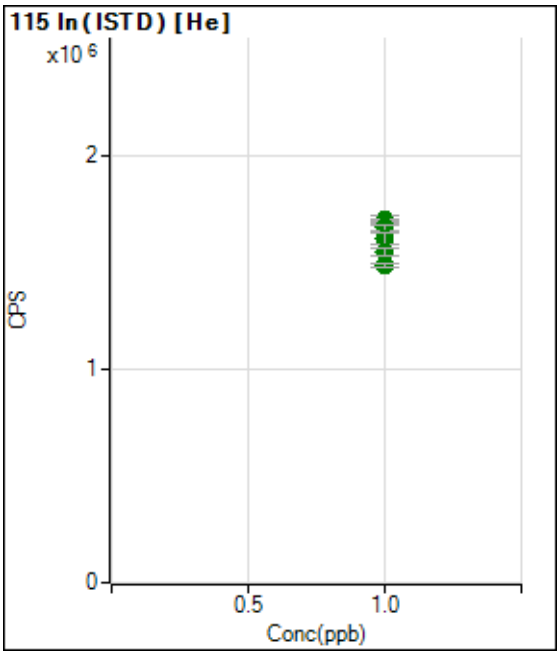
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		3643991.09		A	1.6
2	☐	1.000		3620284.84		A	0.3
3	☐	1.000		3586255.26		A	0.8
4	☐	1.000		3483912.14		A	0.7
5	☐	1.000		3458626.10		A	1.0
6	☐	1.000		3378019.11		A	0.7



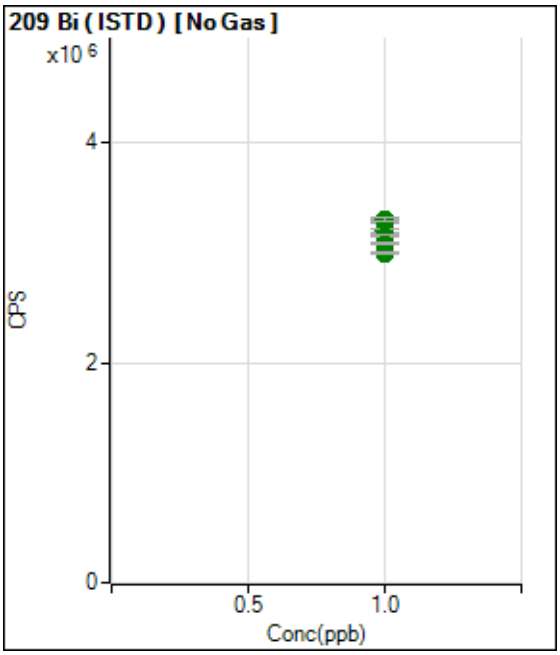
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1014645.06		A	0.8
2	☐	1.000		1020059.59		A	1.7
3	☐	1.000		999354.44		A	1.3
4	☐	1.000		965381.29		M	1.8
5	☐	1.000		948866.21		M	0.6
6	☐	1.000		928701.11		P	1.0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		4072773.61		A	1.7
2	☐	1.000		4060838.14		A	1.0
3	☐	1.000		4030786.72		A	2.9
4	☐	1.000		3957840.76		A	2.0
5	☐	1.000		3847171.55		A	1.2
6	☐	1.000		3738989.48		A	0.4



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1702866.54		A	2.0
2	☐	1.000		1700196.65		A	0.8
3	☐	1.000		1666699.99		A	1.5
4	☐	1.000		1619900.10		A	3.3
5	☐	1.000		1555360.35		A	2.1
6	☐	1.000		1491142.69		A	1.5



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		3283973.18		A	1.1
2	☐	1.000		3301646.41		A	1.1
3	☐	1.000		3201296.41		A	1.5
4	☐	1.000		3157736.52		A	0.8
5	☐	1.000		3083846.73		A	0.4
6	☐	1.000		2997278.08		A	0.7

Sample Report

Sample Table

Sample Name	LLICV5
Data File Name	017LCV5.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061224A.b
Acq Date Time	2024-06-12T10:54:45-05:00
Sample Type	LLCCV5
Dilution	1
Comment	
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	4.988	4.988	4.66	173453	0.00	5	
Be	9	1	No Gas	4.866	4.866	3.39	25971	0.02	5	
V	51	2	He	4.803	4.803	2.07	39855	0.01	5	
Cr	52	2	He	5.141	5.141	3.90	56443	0.01	5	
Fe	56	2	He	503.303	503.303	2.03	4211816	0.01	500	
Se	78	2	He	5.222	5.222	4.35	902	0.58	5	
As	75	2	He	4.835	4.835	6.44	7210	0.07	5	
Ca	44	2	He	496.914	496.914	1.64	32418	1.53	500	
Na	23	2	He	465.347	465.347	3.76	1115879	0.04	500	
Mg	24	2	He	533.244	533.244	1.22	490807	0.11	500	
K	39	2	He	534.083	534.083	1.57	736422	0.07	500	
Mn	55	2	He	5.056	5.056	1.85	37074	0.01	5	
Co	59	2	He	5.150	5.150	1.31	69260	0.01	5	
Ni	60	2	He	5.179	5.179	1.18	18496	0.03	5	
Cu	63	2	He	5.100	5.100	1.39	46690	0.01	5	
Zn	66	2	He	5.297	5.297	2.90	12076	0.04	5	
Al	27	2	He	5.032	5.032	12.85	5208	0.10	5	
B	11	1	No Gas	27.107	27.107	2.31	95378	0.03	25	
Al	27	1	No Gas	5.154	5.154	1.53	185790	0.00	5	
Si	28	1	No Gas	32.110	32.110	5.24	871433	0.00	25	
Ag	107	1	No Gas	5.106	5.106	2.59	125616	0.00	5	
Cd	111	1	No Gas	5.004	5.004	1.11	25321	0.02	5	
Sr	88	1	No Gas	5.019	5.019	2.32	227475	0.00	5	
Mo	95	1	No Gas	4.898	4.898	2.11	45331	0.01	5	
Sn	118	1	No Gas	5.150	5.150	2.11	76244	0.01	5	
Sb	121	1	No Gas	5.124	5.124	0.92	104642	0.00	5	
Ba	137	1	No Gas	4.868	4.868	3.75	34342	0.01	5	
Tl	205	1	No Gas	5.371	5.371	3.77	210503	0.00	5	
Tl	203	1	No Gas	5.279	5.279	3.60	88461	0.01	5	
Pb	208	1	No Gas	4.966	4.966	1.88	274159	0.00	5	
U	238	1	No Gas	4.829	4.829	1.78	249679	0.00	5	
Ca	43	2	He	499.176	499.176	5.65	1914	26.09	500	
Sb	121	2	He	5.021	5.021	2.50	42847	0.01	5	
Ti	47	2	He	4.710	4.710	9.59	1573	0.30	5	
Cu	63	1	No Gas	5.199	5.199	1.36	102978	0.01	5	
Se	82	1	No Gas	5.383	5.383	6.30	2247	0.24	5	
Zr	90	2	He	4.256	4.256	1.28	49171	0.01	5	
Zr	90	1	No Gas	4.508	4.508	2.98	128032	0.00	5	
Cd	111	2	He	5.097	5.097	2.74	12219	0.04	5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag

Sample Report

Li	6	1	No Gas	1378413	2.49	1404381	98.15	70	120	
Ge	72	2	He	966516	0.77	1014645	95.26	70	120	
Ge	72	1	No Gas	3519975	1.07	3643991	96.60	70	120	
Bi	209	1	No Gas	3201241	1.81	3283973	97.48	70	120	

Sample Report

Sample Table

Sample Name	LLICV2
Data File Name	018LCV2.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061224A.b
Acq Date Time	2024-06-12T10:56:41-05:00
Sample Type	LLCCV2
Dilution	1
Comment	
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	2.107	2.107	3.21	117305	0.00	2	
Be	9	1	No Gas	2.056	2.056	0.94	10796	0.02	2	
V	51	2	He	1.885	1.885	5.76	17400	0.01	2	
Cr	52	2	He	2.089	2.089	2.74	29121	0.01	2	
Fe	56	2	He	204.930	204.930	2.33	1761851	0.01	200	
Se	78	2	He	2.020	2.020	8.62	463	0.44	2	
As	75	2	He	1.962	1.962	5.53	3100	0.06	2	
Ca	44	2	He	190.011	190.011	2.82	15456	1.23	200	
Na	23	2	He	144.654	144.654	0.84	629732	0.02	200	
Mg	24	2	He	209.431	209.431	2.57	197211	0.11	200	
K	39	2	He	208.099	208.099	1.40	376978	0.06	200	
Mn	55	2	He	1.997	1.997	1.27	16216	0.01	2	
Co	59	2	He	2.033	2.033	4.19	27899	0.01	2	
Ni	60	2	He	2.032	2.032	0.97	7676	0.03	2	
Cu	63	2	He	1.949	1.949	2.87	19060	0.01	2	
Zn	66	2	He	2.186	2.186	9.19	6522	0.03	2	
Al	27	2	He	1.820	1.820	23.52	3387	0.05	2	
B	11	1	No Gas	11.262	11.262	2.70	48243	0.02	10	
Al	27	1	No Gas	1.871	1.871	3.89	117971	0.00	2	
Si	28	1	No Gas	10.201	10.201	11.53	633865	0.00	10	
Ag	107	1	No Gas	2.033	2.033	4.37	50952	0.00	2	
Cd	111	1	No Gas	1.952	1.952	2.07	10007	0.02	2	
Sr	88	1	No Gas	1.990	1.990	2.85	98535	0.00	2	
Mo	95	1	No Gas	1.935	1.935	1.57	18193	0.01	2	
Sn	118	1	No Gas	1.993	1.993	3.64	31177	0.01	2	
Sb	121	1	No Gas	2.008	2.008	2.79	41533	0.00	2	
Ba	137	1	No Gas	1.870	1.870	0.44	13898	0.01	2	
Tl	205	1	No Gas	2.071	2.071	2.19	81196	0.00	2	
Tl	203	1	No Gas	2.010	2.010	1.78	33704	0.01	2	
Pb	208	1	No Gas	1.998	1.998	1.09	111025	0.00	2	
U	238	1	No Gas	1.923	1.923	0.07	99255	0.00	2	
Ca	43	2	He	187.175	187.175	4.60	867	21.60	200	
Sb	121	2	He	1.964	1.964	1.86	17118	0.01	2	
Ti	47	2	He	1.809	1.809	25.32	637	0.28	200	
Cu	63	1	No Gas	2.050	2.050	1.68	42958	0.00	2	
Se	82	1	No Gas	2.320	2.320	10.70	1297	0.18	2	
Zr	90	2	He	1.706	1.706	1.16	20710	0.01	2	
Zr	90	1	No Gas	1.812	1.812	4.51	52888	0.00	2	
Cd	111	2	He	1.994	1.994	2.22	4735	0.04	2	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag

Sample Report

Li	6	1	No Gas	1355088	2.11	1404381	96.49	70	120	
Ge	72	2	He	982698	0.54	1014645	96.85	70	120	
Ge	72	1	No Gas	3550464	2.15	3643991	97.43	70	120	
Bi	209	1	No Gas	3189919	0.69	3283973	97.14	70	120	

Initial Calibration Blank (ICB) Report

Sample Table

Sample Name	ICB
Data File Name	019_ICB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061224A.b
Acq Date Time	2024-06-12T10:58:38-05:00
Sample Type	ICB
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	0.088	33.1	78858	1.2	2.5	
Be	9	1	No Gas	0.006	63.5	42	48.5	2.5	
V	51	2	He	-0.096	-80.9	1700	36.5	2.5	
Cr	52	2	He	-0.135	-26.9	8489	4.5	2.5	
Fe	56	2	He	2.236	2.6	49473	2.1	250	
Se	78	2	He	0.103	242.1	191	18.3	2.5	
As	75	2	He	0.007	385.9	219	17.5	2.5	
Ca	44	2	He	-4.586	-122.5	4341	8.0	250	
Na	23	2	He	-75.572	-4.3	281886	0.6	250	
Mg	24	2	He	0.143	160.8	2150	10.3	250	
K	39	2	He	1.466	22.5	140775	1.3	250	
Mn	55	2	He	0.027	16.8	2380	2.3	2.5	
Co	59	2	He	0.010	9.6	303	5.0	2.5	
Ni	60	2	He	0.063	19.7	707	7.3	2.5	
Cu	63	2	He	0.009	33.3	1563	3.0	2.5	
Zn	66	2	He	0.748	8.8	3847	4.2	2.5	
Al	27	2	He	-0.057	-396.9	2264	7.0	2.5	
B	11	1	No Gas	1.500	16.7	19911	3.0	10	
Al	27	1	No Gas	0.308	46.8	84949	1.6	2.5	
Si	28	1	No Gas	1.832	75.5	540633	1.0	10	
Ag	107	1	No Gas	-0.006	-28.3	703	6.4	2.5	
Cd	111	1	No Gas	0.005	105.6	47	53.9	2.5	
Sr	88	1	No Gas	-0.039	-14.5	10885	1.3	2.5	
Mo	95	1	No Gas	0.022	36.4	417	18.3	2.5	
Sn	118	1	No Gas	0.065	14.2	3277	5.6	2.5	
Sb	121	1	No Gas	0.029	3.3	920	1.9	2.5	
Ba	137	1	No Gas	0.095	33.8	1557	14.0	2.5	
Tl	205	1	No Gas	0.029	17.3	1633	12.0	2.5	
Tl	203	1	No Gas	0.028	15.8	663	11.0	2.5	
Pb	208	1	No Gas	0.010	23.0	2323	4.9	2.5	
U	238	1	No Gas	0.007	34.7	647	18.4	2.5	
Ca	43	2	He	-5.407	-106.4	200	8.7	250	
Sb	121	2	He	0.039	24.1	470	18.2	2.5	
Ti	47	2	He	-0.036	-175.9	23	89.2	2.5	
Se	82	1	No Gas	0.082	261.4	590	9.4	2.5	
Zr	90	2	He	0.151	21.1	2830	13.2	2.5	
Zr	90	1	No Gas	0.162	14.1	6255	11.2	2.5	
Cd	111	2	He	0.004	209.2	-1	-2839.7	2.5	

Initial Calibration Blank (ICB) Report

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1335922	0.80	1404381	95.13	70	120	
Ge	72	2	He	978906	1.18	1014645	96.48	70	120	
Ge	72	1	No Gas	3552979	2.09	3643991	97.50	70	120	
Bi	209	1	No Gas	3122434	0.29	3283973	95.08	70	120	

Interference Check Solution A (ICS-A) Report

Sample Table

Sample Name	ICSA
Data File Name	021ICSA.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061224A.b
Acq Date Time	2024-06-12T11:04:19-05:00
Sample Type	ICSA
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	0.406	30.3	79093	0.8	5	
Be	9	1	No Gas	0.040	30.9	202	31.2	5	
V	51	2	He	0.331	7.4	4659	4.0	5	
Cr	52	2	He	0.990	3.2	17338	2.0	5	
Fe	56	2	He	99785.201	1.4	771651935	1.3	0	
Se	78	2	He	0.387	43.9	212	9.9	5	
As	75	2	He	0.651	10.8	1070	8.6	5	
Ca	44	2	He	97312.240	1.7	5085324	1.2	0	
Na	23	2	He	102646.978	0.5	148300881	0.6	0	
Mg	24	2	He	99540.452	1.9	84927147	1.6	0	
K	39	2	He	102101.747	2.3	106719038	1.9	0	
Mn	55	2	He	1.472	0.7	11472	1.0	5	
Co	59	2	He	1.102	4.2	13917	4.4	5	
Ni	60	2	He	1.643	4.8	5765	4.0	5	
Cu	63	2	He	0.739	4.6	7462	3.6	5	
Zn	66	2	He	3.379	5.7	7993	4.5	5	
Al	27	2	He	95721.537	1.2	52092778	0.8	0	
B	11	1	No Gas	3.420	3.7	23695	1.9	20	
Al	27	1	No Gas	94782.957	2.9	1900630905	1.9	0	
Si	28	1	No Gas	55.783	3.3	1084828	2.8	20	ICSA Main CR1 FailedICSA Main CR2 Failed
Ag	107	1	No Gas	0.134	12.1	3944	10.4	5	
Cd	111	1	No Gas	2.629	6.7	12066	5.7	5	
Sr	88	1	No Gas	0.852	1.5	46809	0.3	5	
Mo	95	1	No Gas	1902.452	1.3	16763692	0.3	0	
Sn	118	1	No Gas	0.285	2.9	6115	0.8	5	
Sb	121	1	No Gas	0.165	6.1	3511	5.7	5	
Ba	137	1	No Gas	0.562	8.8	4301	6.4	5	
Tl	205	1	No Gas	0.015	9.9	1018	6.2	5	
Tl	203	1	No Gas	0.017	19.8	440	11.8	5	
Pb	208	1	No Gas	0.907	1.6	45927	1.7	5	
U	238	1	No Gas	0.023	16.9	1343	12.4	5	
Ca	43	2	He	96137.441	0.1	304452	0.5	0	
Sb	121	2	He	0.176	15.1	1520	13.6	5	
Ti	47	2	He	2028.914	0.6	616594	0.4	0	
Cu	63	1	No Gas	1.251	2.5	26095	1.4	5	
Se	82	1	No Gas	0.569	70.9	707	18.0	5	
Zr	90	2	He	32.033	2.2	337816	1.8	5	ICSA Main CR1 Failed
Zr	90	1	No Gas	28.576	4.0	768114	4.9	5	ICSA Main CR1 Failed
Cd	111	2	He	0.658	42.5	1388	42.0	5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1248646	1.91	1404381	88.91	70	120	
Ge	72	2	He	899559	0.48	1014645	88.66	70	120	
Ge	72	1	No Gas	3366933	0.98	3643991	92.40	70	120	
Bi	209	1	No Gas	2851020	1.06	3283973	86.82	70	120	

Interference Check Solution AB (ICS-AB) Report

Sample Table

Sample Name	ICSAB
Data File Name	022ICSB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061224A.b
Acq Date Time	2024-06-12T11:06:21-05:00
Sample Type	ICSB
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Li	7	1	No Gas	110.024	2.412	1910567	1.41	100	110.0	80	120	
Be	9	1	No Gas	101.748	1.350	482795	0.27	100	101.7	80	120	
V	51	2	He	104.754	0.712	757993	0.22	100	104.8	80	120	
Cr	52	2	He	103.705	0.790	883416	0.37	100	103.7	80	120	
Fe	56	2	He	111233.588	2.139	855389747	1.29	110000	101.1	80	120	
Se	78	2	He	111.096	0.774	14500	0.26	100	111.1	80	120	
As	75	2	He	108.424	0.932	145597	0.66	100	108.4	80	120	
Ca	44	2	He	107534.487	1.120	5588241	0.25	110000	97.8	80	120	
Na	23	2	He	112728.575	0.767	161933458	0.38	110000	102.5	80	120	
Mg	24	2	He	110366.945	1.780	93643532	0.94	110000	100.3	80	120	
K	39	2	He	111816.944	2.033	116215992	1.22	110000	101.7	80	120	
Mn	55	2	He	106.333	2.516	681423	1.66	100	106.3	80	120	
Co	59	2	He	104.124	3.274	1293026	2.38	100	104.1	80	120	
Ni	60	2	He	100.865	0.637	325236	0.40	100	100.9	80	120	
Cu	63	2	He	101.040	0.610	830839	1.42	100	101.0	80	120	
Zn	66	2	He	108.021	1.031	184266	1.80	100	108.0	80	120	
Al	27	2	He	94978.193	0.528	51406446	0.68	100100	94.9	80	120	
B	11	1	No Gas	559.076	2.852	1467275	1.92	500	111.8	80	120	
Al	27	1	No Gas	98878.407	3.589	1925238798	0.38	100100	98.8	80	120	
Si	28	1	No Gas	585.309	2.798	6506593	1.09	500	117.1	80	120	
Ag	107	1	No Gas	109.789	3.169	2492601	0.41	100	109.8	80	120	
Cd	111	1	No Gas	109.038	2.255	503489	0.15	100	109.0	80	120	
Sr	88	1	No Gas	111.585	2.004	4452806	1.44	100	111.6	80	120	
Mo	95	1	No Gas	2094.157	4.802	17912318	2.11	2100	99.7	80	120	
Sn	118	1	No Gas	108.709	2.328	1452029	1.30	100	108.7	80	120	
Sb	121	1	No Gas	108.536	2.824	2052949	0.95	100	108.5	80	120	
Ba	137	1	No Gas	108.002	2.831	679121	1.50	100	108.0	80	120	
Tl	205	1	No Gas	95.583	2.782	3295903	1.12	100	95.6	80	120	
Tl	203	1	No Gas	95.414	1.625	1407308	0.63	100	95.4	80	120	
Pb	208	1	No Gas	110.579	0.650	5352769	1.52	100	110.6	80	120	
U	238	1	No Gas	112.608	2.057	5130856	0.41	100	112.6	80	120	
Ca	43	2	He	106745.941	2.120	336133	1.23	110000	97.0	80	120	
Sb	121	2	He	103.993	1.001	818971	0.20	100	104.0	80	120	
Ti	47	2	He	2109.901	1.285	637663	0.63	2100	100.5	80	120	
Cu	63	1	No Gas	104.457	3.272	1863104	0.79	100	104.5	80	120	
Se	82	1	No Gas	114.662	2.044	33903	2.31	100	114.7	80	120	
Zr	90	2	He	110.969	3.870	1161223	3.17	100	111.0	80	120	
Zr	90	1	No Gas	115.780	3.263	3016126	0.19	100	115.8	80	120	
Cd	111	2	He	103.795	1.806	222153	0.40	100	103.8	80	120	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1225531	1.10	1404381	87.26	70	120	
Ge	72	2	He	894638	0.89	1014645	88.17	70	120	
Ge	72	1	No Gas	3271309	3.39	3643991	89.77	70	120	
Bi	209	1	No Gas	2824604	1.66	3283973	86.01	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	027_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061224A.b
Acq Date Time	2024-06-12T11:22:37-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
n	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	99.346	3.584	1905675	0.73	100	99.3	90	110	
Be	9	1	No Gas	97.512	3.935	506497	0.63	100	97.5	90	110	
V	51	2	He	95.783	2.215	784311	1.50	100	95.8	90	110	
Cr	52	2	He	98.590	1.816	950706	1.80	100	98.6	90	110	
Fe	56	2	He	9730.863	1.736	84696977	1.41	10000	97.3	90	110	
Se	78	2	He	97.455	1.469	14412	0.46	100	97.5	90	110	
As	75	2	He	96.144	0.786	146117	2.06	100	96.1	90	110	
Ca	44	2	He	9796.773	0.282	580370	1.09	10000	98.0	90	110	
Na	23	2	He	9678.742	0.708	16109067	0.81	10000	96.8	90	110	
Mg	24	2	He	9835.404	0.936	9444013	0.54	10000	98.4	90	110	
K	39	2	He	9926.574	0.722	11805630	1.62	10000	99.3	90	110	
Mn	55	2	He	98.895	1.816	717202	0.52	100	98.9	90	110	
Co	59	2	He	101.261	1.218	1423046	1.87	100	101.3	90	110	
Ni	60	2	He	98.174	0.565	358176	0.82	100	98.2	90	110	
Cu	63	2	He	98.654	0.855	917862	1.64	100	98.7	90	110	
Zn	66	2	He	98.541	1.367	190422	2.54	100	98.5	90	110	
Al	27	2	He	97.089	1.568	61824	1.36	100	97.1	90	110	
B	11	1	No Gas	498.394	3.632	1436205	1.99	500	99.7	90	110	
Al	27	1	No Gas	103.017	2.653	2241596	3.02	100	103.0	90	110	
Si	28	1	No Gas	499.893	1.610	6068481	1.92	5000	10.0	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	103.884	0.208	2543947	0.94	100	103.9	90	110	
Cd	111	1	No Gas	99.585	1.231	517320	0.34	100	99.6	90	110	
Sr	88	1	No Gas	102.476	0.696	4410461	0.62	100	102.5	90	110	
Mo	95	1	No Gas	99.218	2.628	915908	3.20	100	99.2	90	110	
Sn	118	1	No Gas	104.005	1.491	1498275	2.21	100	104.0	90	110	
Sb	121	1	No Gas	103.860	2.108	2118934	2.86	100	103.9	90	110	
Ba	137	1	No Gas	96.935	1.208	685835	0.60	100	96.9	90	110	
Tl	205	1	No Gas	96.525	3.845	3790798	2.31	100	96.5	90	110	
Tl	203	1	No Gas	94.410	4.316	1585648	2.74	100	94.4	90	110	
Pb	208	1	No Gas	100.264	2.137	5527323	0.46	100	100.3	90	110	
U	238	1	No Gas	97.789	1.847	5075665	1.43	100	97.8	90	110	
Ca	43	2	He	9519.620	0.213	34126	1.18	10000	95.2	90	110	
Sb	121	2	He	97.009	1.257	864340	0.23	100	97.0	90	110	
Ti	47	2	He	96.553	1.314	33050	0.92	100	96.6	90	110	
Cu	63	1	No Gas	104.637	0.114	2012970	0.64	100	104.6	90	110	
Se	82	1	No Gas	103.594	3.220	33081	3.42	100	103.6	90	110	
Zr	90	2	He	76.390	0.452	904940	1.22	100	76.4	90	110	CCV Main CR1-2 Failed
Zr	90	1	No Gas	84.414	2.138	2372318	2.18	100	84.4	90	110	CCV Main CR1-2 Failed
Cd	111	2	He	97.661	0.803	236154	2.68	100	97.7	90	110	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1358800	3.63	1404381	96.75	70	120	
Ge	72	2	He	1012224	1.37	1014645	99.76	70	120	
Ge	72	1	No Gas	3525877	0.75	3643991	96.76	70	120	
Bi	209	1	No Gas	3217702	2.47	3283973	97.98	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	028_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061224A.b
Acq Date Time	2024-06-12T11:24:24-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	0.145	48.1	82694	0.7	2.5	
Be	9	1	No Gas	0.022	23.5	128	22.2	2.5	
V	51	2	He	-0.122	-9.1	1548	4.7	2.5	
Cr	52	2	He	-0.328	-3.8	6949	3.0	2.5	
Fe	56	2	He	2.403	6.5	52729	3.8	250	
Se	78	2	He	0.254	72.5	220	13.6	5	
As	75	2	He	0.042	44.1	280	9.7	2.5	
Ca	44	2	He	-13.196	-16.7	3991	4.0	250	
Na	23	2	He	-142.804	-1.9	182859	1.3	250	
Mg	24	2	He	1.541	18.0	3574	7.8	250	
K	39	2	He	9.062	12.5	154833	1.7	250	
Mn	55	2	He	0.051	42.4	2644	4.8	2.5	
Co	59	2	He	0.027	14.4	553	8.9	2.5	
Ni	60	2	He	0.101	36.6	870	14.4	2.5	
Cu	63	2	He	0.028	56.9	1790	9.2	5	
Zn	66	2	He	0.344	21.8	3214	3.7	2.5	
Al	27	2	He	-0.586	-46.1	2020	8.6	2.5	
B	11	1	No Gas	2.222	15.9	22678	5.4	10	
Al	27	1	No Gas	-0.318	-11.9	75227	0.9	2.5	
Si	28	1	No Gas	-2.088	-51.0	520985	1.7	10	
Ag	107	1	No Gas	0.298	21.4	8593	17.5	2.5	
Cd	111	1	No Gas	0.009	64.7	73	43.8	2.5	
Sr	88	1	No Gas	-0.068	-8.5	10097	0.8	2.5	
Mo	95	1	No Gas	0.185	14.6	2034	13.9	2.5	
Sn	118	1	No Gas	0.285	24.3	6776	16.4	2.5	
Sb	121	1	No Gas	0.241	2.5	5535	3.2	2.5	
Ba	137	1	No Gas	-0.034	-17.3	673	6.7	2.5	
Tl	205	1	No Gas	0.748	39.4	30393	40.3	2.5	
Tl	203	1	No Gas	0.723	41.4	12557	42.3	2.5	
Pb	208	1	No Gas	0.021	32.4	3054	14.1	2.5	
U	238	1	No Gas	0.018	14.6	1263	12.6	2.5	
Ca	43	2	He	-1.886	-535.5	220	16.4	250	
Sb	121	2	He	0.267	2.2	2524	2.6	2.5	
Ti	47	2	He	0.039	78.1	50	20.0	2.5	
Cu	63	1	No Gas	0.105	15.9	5621	5.5	2.5	
Se	82	1	No Gas	0.096	329.5	623	15.4	5	
Zr	90	2	He	0.153	13.0	2960	9.0	5	
Zr	90	1	No Gas	0.243	20.7	8973	18.1	5	
Cd	111	2	He	0.013	63.5	23	95.2	2.5	

Continuing Calibration Blank (CCB) Report

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1383417	0.99	1404381	98.51	70	120	
Ge	72	2	He	1014456	1.23	1014645	99.98	70	120	
Ge	72	1	No Gas	3725470	1.78	3643991	102.24	70	120	
Bi	209	1	No Gas	3252982	1.61	3283973	99.06	70	120	

Sample Report

Sample Table

Sample Name	MBLK-213215
Data File Name	029SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061224A.b
Acq Date Time	2024-06-12T11:26:30-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 213215
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	0.013	0.013	467.02	81739	0.00	2000	
Be	9	1	No Gas	0.019	0.019	32.83	115	0.02	2000	
V	51	2	He	-0.152	-0.152	-34.85	1296	-0.01	2000	
Cr	52	2	He	-0.368	-0.368	-7.26	6552	-0.01	2000	
Fe	56	2	He	1.459	1.459	6.85	44356	0.00	200000	
Se	78	2	He	-0.020	-0.020	-1213.43	179	-0.01	2000	
As	75	2	He	0.016	0.016	82.12	240	0.01	2000	
Ca	44	2	He	-39.058	-39.058	-12.44	2457	-1.59	200000	
Na	23	2	He	-149.686	-149.686	-1.19	171196	-0.09	200000	
Mg	24	2	He	0.923	0.923	5.92	2970	0.03	200000	
K	39	2	He	5.616	5.616	57.75	150308	0.00	200000	
Mn	55	2	He	-0.032	-0.032	-105.52	2030	0.00	2000	
Co	59	2	He	0.018	0.018	42.33	433	0.00	2000	
Ni	60	2	He	0.048	0.048	24.93	677	0.01	2000	
Cu	63	2	He	-0.025	-0.025	-75.14	1297	0.00	2000	
Zn	66	2	He	-0.283	-0.283	-17.26	2010	-0.01	2000	
Al	27	2	He	-0.604	-0.604	-5.18	2004	-0.03	2000	
B	11	1	No Gas	0.611	0.611	2.95	18334	0.00	2000	
Al	27	1	No Gas	-0.818	-0.818	-6.09	63120	0.00	2000	
Si	28	1	No Gas	-1.675	-1.675	-18.60	517496	0.00	2000	
Ag	107	1	No Gas	0.238	0.238	21.16	6949	0.00	2000	
Cd	111	1	No Gas	0.003	0.003	277.37	37	0.01	2000	
Sr	88	1	No Gas	-0.195	-0.195	-1.98	4244	0.00	2000	
Mo	95	1	No Gas	0.070	0.070	1.09	890	0.01	2000	
Sn	118	1	No Gas	0.091	0.091	6.50	3767	0.00	2000	
Sb	121	1	No Gas	0.160	0.160	13.01	3717	0.00	2000	
Ba	137	1	No Gas	-0.077	-0.077	-12.54	363	-0.02	2000	
Tl	205	1	No Gas	0.113	0.113	12.02	5060	0.00	2000	
Tl	203	1	No Gas	0.109	0.109	5.84	2075	0.01	2000	
Pb	208	1	No Gas	0.003	0.003	54.42	2067	0.00	2000	
U	238	1	No Gas	0.009	0.009	6.79	800	0.00	2000	
Ca	43	2	He	-26.084	-26.084	-15.01	133	-19.56	200000	
Sb	121	2	He	0.186	0.186	6.51	1797	0.01	2000	
Ti	47	2	He	0.049	0.049	40.43	53	0.09	2000	
Cu	63	1	No Gas	0.041	0.041	26.68	4254	0.00	2000	
Zn	66	1	No Gas	-0.292	-0.292	-12.29	5458	-0.01	2000	
Se	82	1	No Gas	-0.255	-0.255	-69.98	500	-0.05	2000	
Cd	111	2	He	0.016	0.016	91.61	29	0.06	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1409391	1.81	1404381	100.36	70	120	
Ge	72	2	He	1011636	1.92	1014645	99.70	70	120	
Ge	72	1	No Gas	3665664	0.82	3643991	100.59	70	120	

Sample Report

Bi	209	1	No Gas	3255330	0.54	3283973	99.13	70	120	

Sample Report

Sample Table

Sample Name	LCS-213215
Data File Name	030SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061224A.b
Acq Date Time	2024-06-12T11:28:27-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 213215
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	75.891	75.891	1.09	1504590	0.01	2000	
Be	9	1	No Gas	44.623	44.623	2.29	236534	0.02	2000	
V	51	2	He	46.708	46.708	3.01	372322	0.01	2000	
Cr	52	2	He	47.857	47.857	2.47	452722	0.01	2000	
Fe	56	2	He	4897.419	4897.419	2.56	41370250	0.01	200000	
Se	78	2	He	48.044	48.044	2.17	6983	0.69	2000	
As	75	2	He	46.806	46.806	1.15	69120	0.07	2000	
Ca	44	2	He	4892.173	4892.173	1.56	283492	1.73	200000	
Na	23	2	He	4774.279	4774.279	1.86	7916286	0.06	200000	
Mg	24	2	He	4768.489	4768.489	1.73	4443822	0.11	200000	
K	39	2	He	4885.208	4885.208	2.03	5707142	0.09	200000	
Mn	55	2	He	48.785	48.785	2.02	344397	0.01	2000	
Co	59	2	He	47.926	47.926	2.08	653474	0.01	2000	
Ni	60	2	He	47.479	47.479	2.38	168294	0.03	2000	
Cu	63	2	He	48.656	48.656	2.36	439898	0.01	2000	
Zn	66	2	He	49.444	49.444	2.52	93910	0.05	2000	
Al	27	2	He	100.634	100.634	2.56	62092	0.16	2000	
B	11	1	No Gas	465.060	465.060	1.28	1368497	0.03	2000	
Al	27	1	No Gas	99.840	99.840	0.93	2218570	0.00	2000	
Si	28	1	No Gas	572.694	572.694	0.94	7014033	0.01	2000	
Ag	107	1	No Gas	44.293	44.293	1.94	1106683	0.00	2000	
Cd	111	1	No Gas	47.213	47.213	2.18	244207	0.02	2000	
Sr	88	1	No Gas	71.094	71.094	1.71	3124480	0.00	2000	
Mo	95	1	No Gas	46.010	46.010	1.27	433265	0.01	2000	
Sn	118	1	No Gas	69.001	69.001	1.61	1014496	0.01	2000	
Sb	121	1	No Gas	46.056	46.056	1.38	958384	0.00	2000	
Ba	137	1	No Gas	46.493	46.493	1.60	327992	0.01	2000	
Tl	205	1	No Gas	43.406	43.406	0.95	1690144	0.00	2000	
Tl	203	1	No Gas	40.716	40.716	2.20	677978	0.01	2000	
Pb	208	1	No Gas	47.391	47.391	1.42	2590459	0.00	2000	
U	238	1	No Gas	135.755	135.755	1.64	6982425	0.00	2000	
Ca	43	2	He	4887.361	4887.361	3.20	17104	28.57	200000	
Sb	121	2	He	45.497	45.497	2.53	393353	0.01	2000	
Ti	47	2	He	68.588	68.588	1.73	22789	0.30	2000	
Cu	63	1	No Gas	48.816	48.816	1.06	959699	0.01	2000	
Zn	66	1	No Gas	49.072	49.072	0.66	276576	0.02	2000	
Se	82	1	No Gas	49.580	49.580	1.48	16447	0.30	2000	
Cd	111	2	He	45.484	45.484	0.95	111153	0.04	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1385527	0.90	1404381	98.66	70	120	
Ge	72	2	He	982250	2.16	1014645	96.81	70	120	
Ge	72	1	No Gas	3596660	2.08	3643991	98.70	70	120	

Sample Report

Bi	209	1	No Gas	3188485	2.18	3283973	97.09	70	120	

Sample Report

Sample Table

Sample Name	HS24051959-05
Data File Name	031SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061224A.b
Acq Date Time	2024-06-12T11:30:19-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 213215
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	136.539	136.539	3.04	2384559	0.01	2000	
Be	9	1	No Gas	0.030	0.030	7.67	152	0.02	2000	
V	51	2	He	1.141	1.141	5.09	10169	0.01	2000	
Cr	52	2	He	1.293	1.293	1.56	19230	0.01	2000	
Fe	56	2	He	219.747	219.747	0.93	1668591	0.01	200000	
Se	78	2	He	1.072	1.072	6.63	291	0.37	2000	
As	75	2	He	0.521	0.521	3.56	864	0.06	2000	
Ca	44	2	He	298817.017	298817.017	0.94	15074717	1.98	200000	>LDR
Na	23	2	He	525228.470	525228.470	0.93	731385082	0.07	200000	>LDR
Mg	24	2	He	205800.679	205800.679	1.36	169569851	0.12	200000	>LDR
K	39	2	He	1056.149	1056.149	0.97	1188557	0.09	200000	
Mn	55	2	He	353.033	353.033	1.62	2193284	0.02	2000	
Co	59	2	He	5.029	5.029	0.56	60796	0.01	2000	
Ni	60	2	He	15.579	15.579	1.01	49146	0.03	2000	
Cu	63	2	He	1.570	1.570	4.92	13821	0.01	2000	
Zn	66	2	He	17.571	17.571	2.44	30942	0.06	2000	
Al	27	2	He	136.103	136.103	1.53	73588	0.18	2000	
B	11	1	No Gas	11.320	11.320	10.83	44355	0.03	2000	
Al	27	1	No Gas	136.304	136.304	0.63	2687595	0.01	2000	
Si	28	1	No Gas	18070.139	18070.139	2.63	183897077	0.01	2000	>LDR
Ag	107	1	No Gas	0.417	0.417	6.00	10111	0.00	2000	
Cd	111	1	No Gas	0.719	0.719	7.70	3364	0.02	2000	
Sr	88	1	No Gas	6384.596	6384.596	2.13	250462383	0.00	2000	>LDR
Mo	95	1	No Gas	0.221	0.221	14.24	2057	0.01	2000	
Sn	118	1	No Gas	0.374	0.374	5.52	7029	0.01	2000	
Sb	121	1	No Gas	0.305	0.305	1.64	5975	0.01	2000	
Ba	137	1	No Gas	20.810	20.810	3.22	132478	0.02	2000	
Tl	205	1	No Gas	0.518	0.518	40.71	17621	0.00	2000	
Tl	203	1	No Gas	0.500	0.500	41.07	7266	0.01	2000	
Pb	208	1	No Gas	0.540	0.540	2.14	26675	0.00	2000	
U	238	1	No Gas	6.404	6.404	1.44	280540	0.00	2000	
Ca	43	2	He	317667.144	317667.144	1.20	971181	32.71	200000	>LDR
Sb	121	2	He	0.314	0.314	3.06	2524	0.01	2000	
Ti	47	2	He	5.565	5.565	12.14	1663	0.33	2000	
Cu	63	1	No Gas	3.333	3.333	3.81	61533	0.01	2000	
Zn	66	1	No Gas	18.014	18.014	2.45	94921	0.02	2000	
Se	82	1	No Gas	3.560	3.560	9.74	1533	0.23	2000	
Cd	111	2	He	0.686	0.686	9.48	1423	0.05	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1250571	1.89	1404381	89.05	70	120	
Ge	72	2	He	868820	1.68	1014645	85.63	70	120	
Ge	72	1	No Gas	3222634	0.60	3643991	88.44	70	120	
Bi	209	1	No Gas	2712523	0.83	3283973	82.60	70	120	

Sample Report

Sample Table

Sample Name	HS24051959-05SD
Data File Name	032SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061224A.b
Acq Date Time	2024-06-12T11:33:01-05:00
Sample Type	Sample
Dilution	5
Comment	TW DOD B 213215
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	27.128	135.639	1.00	572386	0.00	2000	
Be	9	1	No Gas	0.011	0.055	31.64	67	0.02	2000	
V	51	2	He	0.028	0.140	108.14	2558	0.00	2000	
Cr	52	2	He	-0.024	-0.122	-84.56	9083	0.00	2000	
Fe	56	2	He	41.978	209.889	2.18	366746	0.01	200000	
Se	78	2	He	0.116	0.578	105.81	184	0.06	2000	
As	75	2	He	0.110	0.548	3.43	353	0.03	2000	
Ca	44	2	He	56656.524	283282.620	1.29	3080296	1.84	200000	
Na	23	2	He	99693.425	498467.126	1.48	149767254	0.07	200000	
Mg	24	2	He	38972.633	194863.166	1.49	34571134	0.11	200000	
K	39	2	He	209.330	1046.649	1.82	360113	0.06	200000	
Mn	55	2	He	66.561	332.807	2.07	446745	0.01	2000	
Co	59	2	He	0.991	4.955	2.57	13033	0.01	2000	
Ni	60	2	He	3.032	15.162	7.76	10664	0.03	2000	
Cu	63	2	He	0.286	1.430	18.85	3864	0.01	2000	
Zn	66	2	He	3.843	19.216	6.42	9127	0.04	2000	
Al	27	2	He	25.512	127.560	7.26	16620	0.15	2000	
B	11	1	No Gas	2.843	14.216	2.77	23812	0.01	2000	
Al	27	1	No Gas	26.513	132.565	1.79	616388	0.00	2000	
Si	28	1	No Gas	3458.103	17290.513	2.67	37800932	0.01	2000	>LDR
Ag	107	1	No Gas	0.153	0.765	15.04	4464	0.00	2000	
Cd	111	1	No Gas	0.125	0.627	11.77	633	0.02	2000	
Sr	88	1	No Gas	1243.363	6216.817	2.06	51836244	0.00	2000	
Mo	95	1	No Gas	0.058	0.288	9.13	723	0.01	2000	
Sn	118	1	No Gas	0.060	0.301	19.87	3087	0.00	2000	
Sb	121	1	No Gas	0.092	0.462	11.82	2134	0.00	2000	
Ba	137	1	No Gas	4.038	20.188	1.62	27623	0.01	2000	
Tl	205	1	No Gas	0.063	0.314	12.71	2838	0.00	2000	
Tl	203	1	No Gas	0.063	0.315	8.38	1200	0.01	2000	
Pb	208	1	No Gas	0.096	0.478	6.24	6698	0.00	2000	
U	238	1	No Gas	1.204	6.022	2.96	59130	0.00	2000	
Ca	43	2	He	57212.170	286060.850	0.56	188464	30.36	200000	
Sb	121	2	He	0.101	0.506	17.86	960	0.01	2000	
Ti	47	2	He	1.032	5.162	5.72	360	0.29	2000	
Cu	63	1	No Gas	0.650	3.251	4.79	15332	0.00	2000	
Zn	66	1	No Gas	4.130	20.651	0.52	28230	0.01	2000	
Se	82	1	No Gas	0.500	2.498	60.24	697	0.07	2000	
Cd	111	2	He	0.142	0.710	22.64	309	0.05	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1345725	2.15	1404381	95.82	70	120	
Ge	72	2	He	935295	1.49	1014645	92.18	70	120	
Ge	72	1	No Gas	3424079	0.30	3643991	93.97	70	120	

Sample Report

Bi	209	1	No Gas	3028589	2.36	3283973	92.22	70	120	

Sample Report

Sample Table

Sample Name	HS24051959-05MS
Data File Name	033SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061224A.b
Acq Date Time	2024-06-12T11:34:59-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 213215
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	206.995	206.995	3.50	3510302	0.01	2000	
Be	9	1	No Gas	43.152	43.152	2.91	202548	0.02	2000	
V	51	2	He	47.543	47.543	0.92	327582	0.01	2000	
Cr	52	2	He	47.289	47.289	0.36	386826	0.01	2000	
Fe	56	2	He	4990.945	4990.945	0.45	36446169	0.01	200000	
Se	78	2	He	48.225	48.225	0.79	6059	0.80	2000	
As	75	2	He	46.849	46.849	1.10	59797	0.08	2000	
Ca	44	2	He	316976.888	316976.888	0.67	15622727	2.03	200000	>LDR
Na	23	2	He	553884.789	553884.789	0.45	753608602	0.07	200000	>LDR
Mg	24	2	He	219717.072	219717.072	0.89	176897917	0.12	200000	>LDR
K	39	2	He	5746.102	5746.102	2.28	5781470	0.10	200000	
Mn	55	2	He	407.912	407.912	2.25	2475194	0.02	2000	
Co	59	2	He	49.086	49.086	1.55	578553	0.01	2000	
Ni	60	2	He	58.475	58.475	1.06	179084	0.03	2000	
Cu	63	2	He	45.137	45.137	1.00	352864	0.01	2000	
Zn	66	2	He	62.790	62.790	2.63	102516	0.06	2000	
Al	27	2	He	339.885	339.885	4.32	176539	0.19	2000	
B	11	1	No Gas	467.468	467.468	2.52	1218065	0.04	2000	
Al	27	1	No Gas	318.286	318.286	4.01	6137681	0.01	2000	
Si	28	1	No Gas	18713.314	18713.314	4.85	189074124	0.01	2000	>LDR
Ag	107	1	No Gas	38.022	38.022	3.62	845508	0.00	2000	
Cd	111	1	No Gas	44.865	44.865	1.69	202637	0.02	2000	
Sr	88	1	No Gas	6500.307	6500.307	3.20	253215083	0.00	2000	>LDR
Mo	95	1	No Gas	44.142	44.142	3.11	369910	0.01	2000	
Sn	118	1	No Gas	67.856	67.856	2.12	887926	0.01	2000	
Sb	121	1	No Gas	43.425	43.425	2.61	804192	0.01	2000	
Ba	137	1	No Gas	66.851	66.851	3.04	411442	0.02	2000	
Tl	205	1	No Gas	41.530	41.530	6.77	1355563	0.00	2000	
Tl	203	1	No Gas	39.246	39.246	5.11	548070	0.01	2000	
Pb	208	1	No Gas	46.153	46.153	4.55	2115808	0.00	2000	
U	238	1	No Gas	148.680	148.680	5.30	6412982	0.00	2000	
Ca	43	2	He	326742.717	326742.717	0.84	975951	33.48	200000	>LDR
Sb	121	2	He	43.397	43.397	0.13	324356	0.01	2000	
Ti	47	2	He	79.213	79.213	1.37	22746	0.35	2000	
Cu	63	1	No Gas	45.576	45.576	3.27	797442	0.01	2000	
Zn	66	1	No Gas	61.985	61.985	3.05	309242	0.02	2000	
Se	82	1	No Gas	50.083	50.083	3.70	14778	0.34	2000	
Cd	111	2	He	44.505	44.505	3.52	91196	0.05	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1226959	2.00	1404381	87.37	70	120	
Ge	72	2	He	848856	0.26	1014645	83.66	70	120	
Ge	72	1	No Gas	3200816	1.11	3643991	87.84	70	120	
Bi	209	1	No Gas	2676218	3.20	3283973	81.49	70	120	

Sample Report

Sample Table

Sample Name	HS24051959-05MSD
Data File Name	034SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061224A.b
Acq Date Time	2024-06-12T11:37:00-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 213215
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	205.113	205.113	3.22	3520359	0.01	2000	
Be	9	1	No Gas	41.944	41.944	3.02	199197	0.02	2000	
V	51	2	He	47.007	47.007	1.31	321923	0.01	2000	
Cr	52	2	He	46.628	46.628	2.36	379150	0.01	2000	
Fe	56	2	He	5028.919	5028.919	1.97	36494470	0.01	200000	
Se	78	2	He	47.174	47.174	2.12	5893	0.80	2000	
As	75	2	He	46.408	46.408	1.64	58872	0.08	2000	
Ca	44	2	He	314354.758	314354.758	1.10	15397309	2.04	200000	>LDR
Na	23	2	He	569717.932	569717.932	1.23	770317189	0.07	200000	>LDR
Mg	24	2	He	222707.394	222707.394	1.94	178191657	0.12	200000	>LDR
K	39	2	He	5700.785	5700.785	0.55	5701729	0.10	200000	
Mn	55	2	He	406.129	406.129	1.42	2449301	0.02	2000	
Co	59	2	He	49.146	49.146	1.56	575709	0.01	2000	
Ni	60	2	He	58.928	58.928	2.13	179344	0.03	2000	
Cu	63	2	He	45.510	45.510	1.99	353552	0.01	2000	
Zn	66	2	He	62.831	62.831	1.69	101948	0.06	2000	
Al	27	2	He	340.983	340.983	2.01	176033	0.19	2000	
B	11	1	No Gas	472.169	472.169	3.84	1244406	0.04	2000	
Al	27	1	No Gas	334.205	334.205	1.92	6407190	0.01	2000	
Si	28	1	No Gas	18694.601	18694.601	1.62	187917644	0.01	2000	>LDR
Ag	107	1	No Gas	38.702	38.702	3.07	856064	0.00	2000	
Cd	111	1	No Gas	44.283	44.283	0.71	202627	0.02	2000	
Sr	88	1	No Gas	6593.209	6593.209	3.13	255451856	0.00	2000	>LDR
Mo	95	1	No Gas	44.606	44.606	3.07	371798	0.01	2000	
Sn	118	1	No Gas	70.055	70.055	2.36	911700	0.01	2000	
Sb	121	1	No Gas	43.980	43.980	2.58	810097	0.01	2000	
Ba	137	1	No Gas	66.897	66.897	1.72	417111	0.02	2000	
Tl	205	1	No Gas	41.374	41.374	5.61	1390075	0.00	2000	
Tl	203	1	No Gas	39.078	39.078	5.86	561402	0.01	2000	
Pb	208	1	No Gas	44.790	44.790	3.90	2113225	0.00	2000	
U	238	1	No Gas	147.516	147.516	3.75	6549394	0.00	2000	
Ca	43	2	He	334455.008	334455.008	1.56	992980	33.68	200000	>LDR
Sb	121	2	He	43.628	43.628	1.31	324081	0.01	2000	
Ti	47	2	He	77.397	77.397	2.31	22085	0.35	2000	
Cu	63	1	No Gas	45.598	45.598	3.79	793523	0.01	2000	
Zn	66	1	No Gas	62.252	62.252	3.39	308860	0.02	2000	
Se	82	1	No Gas	52.463	52.463	3.68	15372	0.34	2000	
Cd	111	2	He	43.827	43.827	3.56	89354	0.05	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1241556	1.63	1404381	88.41	70	120	
Ge	72	2	He	843671	1.39	1014645	83.15	70	120	
Ge	72	1	No Gas	3183702	1.25	3643991	87.37	70	120	
Bi	209	1	No Gas	2754397	4.12	3283973	83.87	70	120	

Sample Report

Sample Table

Sample Name	HS24051959-05PDS
Data File Name	035SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061224A.b
Acq Date Time	2024-06-12T11:39:01-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 213215
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	139.255	139.255	4.37	2470635	0.01	2000	
Be	9	1	No Gas	93.543	93.543	4.18	454822	0.02	2000	
V	51	2	He	107.254	107.254	1.74	751559	0.01	2000	
Cr	52	2	He	105.356	105.356	1.91	869033	0.01	2000	
Fe	56	2	He	11220.404	11220.404	1.72	83597805	0.01	200000	
Se	78	2	He	108.175	108.175	1.19	13678	0.79	2000	
As	75	2	He	106.343	106.343	0.68	138306	0.08	2000	
Ca	44	2	He	325916.508	325916.508	1.20	16395374	1.99	200000	>LDR
Na	23	2	He	583118.081	583118.081	1.04	809755375	0.07	200000	>LDR
Mg	24	2	He	231239.785	231239.785	1.88	190020657	0.12	200000	>LDR
K	39	2	He	11909.906	11909.906	0.31	12099319	0.10	200000	
Mn	55	2	He	470.375	470.375	0.80	2913082	0.02	2000	
Co	59	2	He	110.527	110.527	2.05	1329455	0.01	2000	
Ni	60	2	He	114.190	114.190	1.16	356533	0.03	2000	
Cu	63	2	He	102.236	102.236	1.16	814101	0.01	2000	
Zn	66	2	He	120.541	120.541	1.00	198872	0.06	2000	
Al	27	2	He	348.491	348.491	2.92	184684	0.19	2000	
B	11	1	No Gas	11.401	11.401	6.62	45305	0.03	2000	
Al	27	1	No Gas	336.030	336.030	7.49	6473102	0.01	2000	
Si	28	1	No Gas	18337.468	18337.468	4.99	185366217	0.01	2000	>LDR
Ag	107	1	No Gas	81.708	81.708	6.59	1815781	0.00	2000	
Cd	111	1	No Gas	99.811	99.811	2.27	462932	0.02	2000	
Sr	88	1	No Gas	6659.298	6659.298	5.92	259408143	0.00	2000	>LDR
Mo	95	1	No Gas	102.872	102.872	6.92	861564	0.01	2000	
Sn	118	1	No Gas	0.375	0.375	9.11	6992	0.01	2000	
Sb	121	1	No Gas	103.589	103.589	4.98	1918530	0.01	2000	
Ba	137	1	No Gas	121.862	121.862	2.03	769603	0.02	2000	
Tl	205	1	No Gas	95.224	95.224	3.55	3247040	0.00	2000	
Tl	203	1	No Gas	92.692	92.692	2.14	1352014	0.01	2000	
Pb	208	1	No Gas	104.860	104.860	2.65	5018749	0.00	2000	
U	238	1	No Gas	114.112	114.112	1.73	5141871	0.00	2000	
Ca	43	2	He	342882.027	342882.027	1.81	1045318	32.80	200000	>LDR
Sb	121	2	He	99.999	99.999	1.22	762702	0.01	2000	
Ti	47	2	He	10.408	10.408	20.52	3078	0.34	2000	
Cu	63	1	No Gas	101.494	101.494	3.07	1774142	0.01	2000	
Zn	66	1	No Gas	117.270	117.270	5.20	579655	0.02	2000	
Se	82	1	No Gas	112.113	112.113	6.44	32446	0.35	2000	
Cd	111	2	He	100.877	100.877	1.46	210039	0.05	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1272066	3.72	1404381	90.58	70	120	
Ge	72	2	He	866420	0.40	1014645	85.39	70	120	
Ge	72	1	No Gas	3206064	4.73	3643991	87.98	70	120	
Bi	209	1	No Gas	2793061	1.08	3283973	85.05	70	120	

Sample Report

Sample Table

Sample Name	HS24051959-06
Data File Name	036SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061224A.b
Acq Date Time	2024-06-12T11:41:01-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 213215
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	140.152	140.152	0.98	2448480	0.01	2000	
Be	9	1	No Gas	0.029	0.029	27.98	150	0.02	2000	
V	51	2	He	1.110	1.110	11.97	9771	0.01	2000	
Cr	52	2	He	1.191	1.191	2.77	18049	0.01	2000	
Fe	56	2	He	240.477	240.477	0.34	1788973	0.01	200000	
Se	78	2	He	0.650	0.650	34.35	233	0.28	2000	
As	75	2	He	0.535	0.535	5.01	866	0.06	2000	
Ca	44	2	He	319785.952	319785.952	1.00	15828123	2.02	200000	>LDR
Na	23	2	He	575179.342	575179.342	0.62	785913962	0.07	200000	>LDR
Mg	24	2	He	225163.810	225163.810	0.95	182060531	0.12	200000	>LDR
K	39	2	He	1122.502	1122.502	3.04	1231702	0.09	200000	
Mn	55	2	He	394.716	394.716	0.55	2405489	0.02	2000	
Co	59	2	He	5.716	5.716	0.85	67795	0.01	2000	
Ni	60	2	He	17.412	17.412	1.92	53850	0.03	2000	
Cu	63	2	He	1.682	1.682	2.77	14445	0.01	2000	
Zn	66	2	He	20.741	20.741	4.17	35450	0.06	2000	
Al	27	2	He	142.672	142.672	1.93	75578	0.19	2000	
B	11	1	No Gas	10.278	10.278	3.76	41670	0.02	2000	
Al	27	1	No Gas	139.509	139.509	1.44	2723997	0.01	2000	
Si	28	1	No Gas	18007.145	18007.145	1.70	181585251	0.01	2000	>LDR
Ag	107	1	No Gas	0.122	0.122	3.51	3484	0.00	2000	
Cd	111	1	No Gas	0.772	0.772	8.51	3551	0.02	2000	
Sr	88	1	No Gas	6702.808	6702.808	2.35	260535629	0.00	2000	>LDR
Mo	95	1	No Gas	0.220	0.220	12.79	2030	0.01	2000	
Sn	118	1	No Gas	0.259	0.259	1.26	5471	0.00	2000	
Sb	121	1	No Gas	0.202	0.202	1.48	4014	0.01	2000	
Ba	137	1	No Gas	22.115	22.115	1.78	138391	0.02	2000	
Tl	205	1	No Gas	0.907	0.907	44.65	31010	0.00	2000	
Tl	203	1	No Gas	0.879	0.879	44.39	12841	0.01	2000	
Pb	208	1	No Gas	0.585	0.585	0.96	29217	0.00	2000	
U	238	1	No Gas	6.783	6.783	2.21	301897	0.00	2000	
Ca	43	2	He	334275.985	334275.985	1.14	1002697	33.34	200000	>LDR
Sb	121	2	He	0.196	0.196	13.06	1587	0.01	2000	
Ti	47	2	He	5.691	5.691	7.65	1670	0.34	2000	
Cu	63	1	No Gas	3.395	3.395	3.22	62035	0.01	2000	
Zn	66	1	No Gas	21.124	21.124	0.57	109227	0.02	2000	
Se	82	1	No Gas	4.265	4.265	29.08	1720	0.25	2000	
Cd	111	2	He	0.749	0.749	16.31	1540	0.05	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1251542	0.38	1404381	89.12	70	120	
Ge	72	2	He	852478	0.34	1014645	84.02	70	120	
Ge	72	1	No Gas	3193126	0.10	3643991	87.63	70	120	
Bi	209	1	No Gas	2755896	0.64	3283973	83.92	70	120	

Sample Report

Sample Table

Sample Name	HS24051959-10
Data File Name	037SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061224A.b
Acq Date Time	2024-06-12T11:43:04-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 213215
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	31.305	31.305	4.22	614610	0.01	2000	
Be	9	1	No Gas	0.114	0.114	12.27	563	0.02	2000	
V	51	2	He	6.899	6.899	1.39	51579	0.01	2000	
Cr	52	2	He	2.617	2.617	2.87	30702	0.01	2000	
Fe	56	2	He	37880.152	37880.152	1.28	288923176	0.01	200000	
Se	78	2	He	0.566	0.566	26.22	232	0.24	2000	
As	75	2	He	8.945	8.945	1.53	12084	0.07	2000	
Ca	44	2	He	134940.795	134940.795	0.90	6953270	1.94	200000	
Na	23	2	He	934404.194	934404.194	0.98	1328385714	0.07	200000	>LDR
Mg	24	2	He	96022.023	96022.023	0.69	80797787	0.12	200000	
K	39	2	He	634.339	634.339	1.02	779175	0.08	200000	
Mn	55	2	He	3940.829	3940.829	0.82	24975332	0.02	2000	>LDR
Co	59	2	He	10.104	10.104	1.07	124590	0.01	2000	
Ni	60	2	He	7.914	7.914	1.86	25711	0.03	2000	
Cu	63	2	He	3.559	3.559	3.90	30314	0.01	2000	
Zn	66	2	He	8.792	8.792	2.63	16924	0.05	2000	
Al	27	2	He	37.720	37.720	0.73	22325	0.17	2000	
B	11	1	No Gas	63.594	63.594	3.38	185182	0.03	2000	
Al	27	1	No Gas	38.234	38.234	3.69	816976	0.00	2000	
Si	28	1	No Gas	15026.823	15026.823	1.01	155259218	0.01	2000	>LDR
Ag	107	1	No Gas	0.153	0.153	11.42	4271	0.00	2000	
Cd	111	1	No Gas	0.170	0.170	5.80	810	0.02	2000	
Sr	88	1	No Gas	2867.795	2867.795	1.44	114158715	0.00	2000	>LDR
Mo	95	1	No Gas	0.352	0.352	13.64	3214	0.01	2000	
Sn	118	1	No Gas	0.336	0.336	3.04	6625	0.01	2000	
Sb	121	1	No Gas	0.210	0.210	6.47	4254	0.00	2000	
Ba	137	1	No Gas	465.068	465.068	5.85	2929667	0.02	2000	
Tl	205	1	No Gas	0.093	0.093	12.60	3608	0.00	2000	
Tl	203	1	No Gas	0.094	0.094	12.82	1541	0.01	2000	
Pb	208	1	No Gas	0.562	0.562	2.28	28066	0.00	2000	
U	238	1	No Gas	0.431	0.431	3.81	19376	0.00	2000	
Ca	43	2	He	135920.001	135920.001	0.51	424414	32.03	200000	
Sb	121	2	He	0.203	0.203	2.76	1710	0.01	2000	
Ti	47	2	He	4.286	4.286	9.26	1317	0.33	2000	
Cu	63	1	No Gas	6.698	6.698	1.55	122364	0.01	2000	
Zn	66	1	No Gas	8.556	8.556	0.71	49066	0.02	2000	
Se	82	1	No Gas	9.508	9.508	12.71	3290	0.29	2000	
Cd	111	2	He	0.134	0.134	25.29	269	0.05	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1275671	0.99	1404381	90.84	70	120	
Ge	72	2	He	887139	0.48	1014645	87.43	70	120	
Ge	72	1	No Gas	3269911	1.12	3643991	89.73	70	120	
Bi	209	1	No Gas	2748697	2.34	3283973	83.70	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	039_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061224A.b
Acq Date Time	2024-06-12T11:47:15-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
n	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	98.902	2.935	1976772	0.35	100	98.9	90	110	
Be	9	1	No Gas	90.925	3.088	492052	0.90	100	90.9	90	110	
V	51	2	He	102.261	0.809	797983	1.02	100	102.3	90	110	
Cr	52	2	He	103.003	1.260	946193	0.54	100	103.0	90	110	
Fe	56	2	He	10181.781	1.357	84460579	0.33	10000	101.8	90	110	
Se	78	2	He	98.351	3.859	13860	3.19	100	98.4	90	110	
As	75	2	He	98.499	1.334	142645	0.91	100	98.5	90	110	
Ca	44	2	He	10009.907	2.159	564995	1.20	10000	100.1	90	110	
Na	23	2	He	10452.608	1.822	16549086	1.71	10000	104.5	90	110	
Mg	24	2	He	10303.338	2.899	9427976	2.08	10000	103.0	90	110	
K	39	2	He	10108.425	2.669	11453650	2.13	10000	101.1	90	110	
Mn	55	2	He	101.363	0.722	700629	0.77	100	101.4	90	110	
Co	59	2	He	105.650	1.731	1415058	2.25	100	105.7	90	110	
Ni	60	2	He	104.804	1.441	364372	0.87	100	104.8	90	110	
Cu	63	2	He	105.208	0.994	932795	1.52	100	105.2	90	110	
Zn	66	2	He	104.254	1.940	191822	1.04	100	104.3	90	110	
Al	27	2	He	100.015	3.124	60622	2.00	100	100.0	90	110	
B	11	1	No Gas	496.911	3.052	1491831	2.25	500	99.4	90	110	
Al	27	1	No Gas	100.868	0.177	2214910	1.05	100	100.9	90	110	
Si	28	1	No Gas	473.612	1.773	5824672	0.72	5000	9.5	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	103.902	1.648	2565638	0.80	100	103.9	90	110	
Cd	111	1	No Gas	101.663	1.138	529322	0.57	100	101.7	90	110	
Sr	88	1	No Gas	103.520	1.296	4492676	0.47	100	103.5	90	110	
Mo	95	1	No Gas	98.243	1.835	914412	1.27	100	98.2	90	110	
Sn	118	1	No Gas	106.775	1.942	1550993	2.07	100	106.8	90	110	
Sb	121	1	No Gas	103.302	2.638	2124808	1.73	100	103.3	90	110	
Ba	137	1	No Gas	98.579	1.171	699032	0.19	100	98.6	90	110	
Tl	205	1	No Gas	100.001	0.877	4026268	0.90	100	100.0	90	110	
Tl	203	1	No Gas	97.907	1.247	1685861	0.89	100	97.9	90	110	
Pb	208	1	No Gas	103.290	0.465	5836524	0.23	100	103.3	90	110	
U	238	1	No Gas	99.877	2.778	5313125	2.64	100	99.9	90	110	
Ca	43	2	He	9627.667	0.716	32890	0.39	10000	96.3	90	110	
Sb	121	2	He	98.867	1.656	839584	1.30	100	98.9	90	110	
Ti	47	2	He	96.999	3.337	31643	2.93	100	97.0	90	110	
Cu	63	1	No Gas	102.329	2.916	1984986	2.13	100	102.3	90	110	
Se	82	1	No Gas	100.738	3.052	32450	2.09	100	100.7	90	110	
Zr	90	2	He	83.361	2.211	941011	1.84	100	83.4	90	110	CCV Main CR1-2 Failed
Zr	90	1	No Gas	86.879	2.017	2461917	1.15	100	86.9	90	110	CCV Main CR1-2 Failed
Cd	111	2	He	101.480	2.039	236759	1.45	100	101.5	90	110	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1415050	2.48	1404381	100.76	70	120	
Ge	72	2	He	964712	1.10	1014645	95.08	70	120	
Ge	72	1	No Gas	3555694	0.92	3643991	97.58	70	120	
Bi	209	1	No Gas	3297104	0.38	3283973	100.40	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	040_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061224A.b
Acq Date Time	2024-06-12T11:49:02-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	0.250	32.8	89343	0.3	2.5	
Be	9	1	No Gas	0.006	7.3	42	6.9	2.5	
V	51	2	He	-0.145	-10.1	1340	9.2	2.5	
Cr	52	2	He	-0.406	-11.4	6132	6.8	2.5	
Fe	56	2	He	1.215	12.0	41875	3.1	250	
Se	78	2	He	0.038	82.6	186	2.8	5	
As	75	2	He	0.008	148.0	227	7.8	2.5	
Ca	44	2	He	-2.425	-272.5	4571	8.0	250	
Na	23	2	He	-85.451	-2.6	272983	1.7	250	
Mg	24	2	He	4.522	2.2	6368	1.0	250	
K	39	2	He	-1.614	-35.1	140647	0.9	250	
Mn	55	2	He	-0.019	-71.4	2107	4.3	2.5	
Co	59	2	He	0.002	199.8	207	31.1	2.5	
Ni	60	2	He	0.077	13.8	773	4.5	2.5	
Cu	63	2	He	-0.010	-67.2	1427	4.6	5	
Zn	66	2	He	0.409	28.6	3300	6.6	2.5	
Al	27	2	He	-0.416	-66.8	2100	7.7	2.5	
B	11	1	No Gas	1.795	25.8	22604	4.6	10	
Al	27	1	No Gas	-0.198	-21.0	76721	1.2	2.5	
Si	28	1	No Gas	-4.001	-9.2	491197	0.5	10	
Ag	107	1	No Gas	0.018	4.8	1357	1.9	2.5	
Cd	111	1	No Gas	0.004	23.5	47	12.4	2.5	
Sr	88	1	No Gas	0.056	24.7	15459	4.1	2.5	
Mo	95	1	No Gas	0.111	37.8	1283	30.8	2.5	
Sn	118	1	No Gas	0.124	5.8	4264	2.4	2.5	
Sb	121	1	No Gas	0.069	17.4	1790	14.1	2.5	
Ba	137	1	No Gas	-0.048	-27.7	583	15.9	2.5	
Tl	205	1	No Gas	0.678	42.5	28064	40.8	2.5	
Tl	203	1	No Gas	0.680	43.2	12002	41.6	2.5	
Pb	208	1	No Gas	0.002	51.5	2037	2.5	2.5	
U	238	1	No Gas	0.015	15.9	1107	10.5	2.5	
Ca	43	2	He	-5.848	-367.8	203	36.9	250	
Sb	121	2	He	0.063	28.5	697	22.5	2.5	
Ti	47	2	He	0.040	71.8	50	20.0	2.5	
Cu	63	1	No Gas	0.007	128.4	3577	5.6	2.5	
Se	82	1	No Gas	0.327	107.5	690	16.1	5	
Zr	90	2	He	0.152	11.7	2917	7.5	5	
Zr	90	1	No Gas	0.255	21.8	9167	17.4	5	
Cd	111	2	He	0.015	77.5	26	110.1	2.5	

Continuing Calibration Blank (CCB) Report

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1460001	1.95	1404381	103.96	70	120	
Ge	72	2	He	1002940	0.41	1014645	98.85	70	120	
Ge	72	1	No Gas	3669940	0.51	3643991	100.71	70	120	
Bi	209	1	No Gas	3325438	0.85	3283973	101.26	70	120	

Sample Report

Sample Table

Sample Name	HS24051959-11
Data File Name	041SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061224A.b
Acq Date Time	2024-06-12T11:51:19-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 213215
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	37.476	37.476	3.31	719538	0.01	2000	
Be	9	1	No Gas	0.038	0.038	25.49	192	0.02	2000	
V	51	2	He	3.891	3.891	0.99	29882	0.01	2000	
Cr	52	2	He	2.651	2.651	2.59	30808	0.01	2000	
Fe	56	2	He	65375.159	65375.159	0.91	495664473	0.01	200000	
Se	78	2	He	0.586	0.586	35.51	233	0.25	2000	
As	75	2	He	26.566	26.566	0.98	35311	0.08	2000	
Ca	44	2	He	333657.353	333657.353	1.21	17085373	1.95	200000	>LDR
Na	23	2	He	1051427.260	1051427.260	1.14	1485948565	0.07	200000	>LDR
Mg	24	2	He	275061.956	275061.956	0.82	230080257	0.12	200000	>LDR
K	39	2	He	590.810	590.810	0.58	730059	0.08	200000	
Mn	55	2	He	3979.642	3979.642	2.09	25072740	0.02	2000	>LDR
Co	59	2	He	10.143	10.143	2.08	124324	0.01	2000	
Ni	60	2	He	6.364	6.364	3.36	20640	0.03	2000	
Cu	63	2	He	3.416	3.416	3.38	28978	0.01	2000	
Zn	66	2	He	6.634	6.634	1.93	13240	0.05	2000	
Al	27	2	He	20.986	20.986	4.11	13267	0.16	2000	
B	11	1	No Gas	51.475	51.475	3.31	152382	0.03	2000	
Al	27	1	No Gas	20.911	20.911	4.03	477286	0.00	2000	
Si	28	1	No Gas	16193.459	16193.459	2.39	166499311	0.01	2000	>LDR
Ag	107	1	No Gas	0.080	0.080	15.94	2587	0.00	2000	
Cd	111	1	No Gas	0.156	0.156	5.03	723	0.02	2000	
Sr	88	1	No Gas	6726.849	6726.849	1.18	266542043	0.00	2000	>LDR
Mo	95	1	No Gas	0.179	0.179	11.95	1720	0.01	2000	
Sn	118	1	No Gas	0.196	0.196	2.48	4734	0.00	2000	
Sb	121	1	No Gas	0.202	0.202	5.02	4094	0.00	2000	
Ba	137	1	No Gas	230.934	230.934	2.47	1414085	0.02	2000	
Tl	205	1	No Gas	0.082	0.082	16.50	3126	0.00	2000	
Tl	203	1	No Gas	0.079	0.079	17.08	1278	0.01	2000	
Pb	208	1	No Gas	0.448	0.448	3.33	21991	0.00	2000	
U	238	1	No Gas	0.769	0.769	1.07	33296	0.00	2000	
Ca	43	2	He	347825.448	347825.448	2.28	1079437	32.22	200000	>LDR
Sb	121	2	He	0.184	0.184	8.22	1547	0.01	2000	
Ti	47	2	He	4.604	4.604	14.69	1403	0.33	2000	
Cu	63	1	No Gas	7.702	7.702	1.88	139601	0.01	2000	
Zn	66	1	No Gas	7.274	7.274	2.66	42470	0.02	2000	
Se	82	1	No Gas	11.056	11.056	7.22	3721	0.30	2000	
Cd	111	2	He	0.150	0.150	23.63	296	0.05	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1272766	1.45	1404381	90.63	70	120	
Ge	72	2	He	881914	0.40	1014645	86.92	70	120	
Ge	72	1	No Gas	3255302	0.91	3643991	89.33	70	120	
Bi	209	1	No Gas	2663264	0.36	3283973	81.10	70	120	

Sample Report

Sample Table

Sample Name	HS24051959-12
Data File Name	042SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061224A.b
Acq Date Time	2024-06-12T11:53:25-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 213215
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	46.199	46.199	4.02	992288	0.00	2000	
Be	9	1	No Gas	0.138	0.138	5.72	778	0.02	2000	
V	51	2	He	-0.034	-0.034	-141.62	2226	0.00	2000	
Cr	52	2	He	0.805	0.805	1.92	17438	0.00	2000	
Fe	56	2	He	34227.143	34227.143	1.71	292624236	0.01	200000	
Se	78	2	He	-0.037	-0.037	-301.48	173	-0.02	2000	
As	75	2	He	0.709	0.709	6.39	1269	0.06	2000	
Ca	44	2	He	44582.057	44582.057	2.73	2577555	1.73	200000	
Na	23	2	He	71521.466	71521.466	2.28	114331542	0.06	200000	
Mg	24	2	He	23653.590	23653.590	3.37	22309039	0.11	200000	
K	39	2	He	2656.168	2656.168	2.96	3207010	0.08	200000	
Mn	55	2	He	56.547	56.547	2.00	403831	0.01	2000	
Co	59	2	He	0.155	0.155	3.08	2310	0.01	2000	
Ni	60	2	He	5.540	5.540	2.44	20319	0.03	2000	
Cu	63	2	He	0.343	0.343	9.53	4638	0.01	2000	
Zn	66	2	He	7.912	7.912	1.58	17328	0.05	2000	
Al	27	2	He	12.399	12.399	6.11	9787	0.13	2000	
B	11	1	No Gas	110.018	110.018	2.47	352117	0.03	2000	
Al	27	1	No Gas	13.044	13.044	1.34	368897	0.00	2000	
Si	28	1	No Gas	14219.768	14219.768	2.37	166130621	0.01	2000	>LDR
Ag	107	1	No Gas	0.123	0.123	1.60	4054	0.00	2000	
Cd	111	1	No Gas	0.027	0.027	27.16	163	0.02	2000	
Sr	88	1	No Gas	1568.125	1568.125	2.36	70559959	0.00	2000	
Mo	95	1	No Gas	0.290	0.290	6.31	3030	0.01	2000	
Sn	118	1	No Gas	0.183	0.183	4.88	5181	0.00	2000	
Sb	121	1	No Gas	0.052	0.052	10.07	1443	0.00	2000	
Ba	137	1	No Gas	509.934	509.934	1.48	3629036	0.01	2000	
Tl	205	1	No Gas	0.020	0.020	21.79	1307	0.00	2000	
Tl	203	1	No Gas	0.021	0.021	33.30	546	0.00	2000	
Pb	208	1	No Gas	0.056	0.056	4.77	4814	0.00	2000	
U	238	1	No Gas	0.014	0.014	23.63	983	0.00	2000	
Ca	43	2	He	45389.298	45389.298	3.20	158960	28.55	200000	
Sb	121	2	He	0.066	0.066	8.64	710	0.01	2000	
Ti	47	2	He	1.768	1.768	27.56	630	0.28	2000	
Cu	63	1	No Gas	0.862	0.862	4.50	20830	0.00	2000	
Zn	66	1	No Gas	7.706	7.706	0.69	50672	0.02	2000	
Se	82	1	No Gas	0.167	0.167	160.38	643	0.03	2000	
Cd	111	2	He	0.037	0.037	29.89	78	0.05	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1451435	2.36	1404381	103.35	70	120	
Ge	72	2	He	994614	2.82	1014645	98.03	70	120	
Ge	72	1	No Gas	3696715	1.39	3643991	101.45	70	120	

Sample Report

Bi	209	1	No Gas	3124860	1.47	3283973	95.15	70	120	

Sample Report

Sample Table

Sample Name	HS24051959-15
Data File Name	043SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061224A.b
Acq Date Time	2024-06-12T11:55:25-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 213215
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	83.980	83.980	4.10	1600421	0.01	2000	
Be	9	1	No Gas	0.041	0.041	28.34	222	0.02	2000	
V	51	2	He	0.438	0.438	33.27	5768	0.01	2000	
Cr	52	2	He	15.265	15.265	0.96	147087	0.01	2000	
Fe	56	2	He	182.522	182.522	3.50	1529767	0.01	200000	
Se	78	2	He	0.084	0.084	166.91	183	0.05	2000	
As	75	2	He	0.364	0.364	13.52	726	0.05	2000	
Ca	44	2	He	79507.286	79507.286	2.67	4416168	1.80	200000	
Na	23	2	He	307167.669	307167.669	1.30	470894953	0.07	200000	>LDR
Mg	24	2	He	40534.539	40534.539	1.27	36760708	0.11	200000	
K	39	2	He	604.403	604.403	3.55	806325	0.07	200000	
Mn	55	2	He	146.004	146.004	1.26	999249	0.01	2000	
Co	59	2	He	0.801	0.801	4.65	10798	0.01	2000	
Ni	60	2	He	21.090	21.090	2.81	73049	0.03	2000	
Cu	63	2	He	1.284	1.284	2.56	12710	0.01	2000	
Zn	66	2	He	12.504	12.504	1.19	24933	0.05	2000	
Al	27	2	He	51.109	51.109	0.49	31813	0.16	2000	
B	11	1	No Gas	20.899	20.899	5.75	74406	0.03	2000	
Al	27	1	No Gas	52.966	52.966	2.62	1167081	0.00	2000	
Si	28	1	No Gas	17425.849	17425.849	2.12	190275051	0.01	2000	>LDR
Ag	107	1	No Gas	0.050	0.050	12.17	2044	0.00	2000	
Cd	111	1	No Gas	0.141	0.141	27.95	723	0.02	2000	
Sr	88	1	No Gas	1857.101	1857.101	1.36	78166296	0.00	2000	>LDR
Mo	95	1	No Gas	0.633	0.633	4.82	5935	0.01	2000	
Sn	118	1	No Gas	0.188	0.188	5.89	4914	0.00	2000	
Sb	121	1	No Gas	0.121	0.121	1.67	2737	0.00	2000	
Ba	137	1	No Gas	40.381	40.381	0.76	273095	0.01	2000	
Tl	205	1	No Gas	0.022	0.022	5.87	1319	0.00	2000	
Tl	203	1	No Gas	0.024	0.024	7.15	579	0.00	2000	
Pb	208	1	No Gas	0.130	0.130	3.22	8415	0.00	2000	
U	238	1	No Gas	1.163	1.163	1.11	56655	0.00	2000	
Ca	43	2	He	79641.908	79641.908	3.03	268052	29.71	200000	
Sb	121	2	He	0.113	0.113	20.46	1083	0.01	2000	
Ti	47	2	He	2.287	2.287	9.62	773	0.30	2000	
Cu	63	1	No Gas	2.296	2.296	1.55	46477	0.00	2000	
Zn	66	1	No Gas	12.639	12.639	2.34	73445	0.02	2000	
Se	82	1	No Gas	1.292	1.292	61.32	947	0.14	2000	
Cd	111	2	He	0.136	0.136	8.09	294	0.05	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1339675	2.91	1404381	95.39	70	120	
Ge	72	2	He	956267	2.43	1014645	94.25	70	120	
Ge	72	1	No Gas	3457491	0.68	3643991	94.88	70	120	
Bi	209	1	No Gas	3004191	0.56	3283973	91.48	70	120	

Sample Report

Sample Table

Sample Name	HS24051959-16
Data File Name	044SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061224A.b
Acq Date Time	2024-06-12T11:57:23-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 213215
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	83.474	83.474	3.55	1573421	0.01	2000	
Be	9	1	No Gas	0.041	0.041	11.76	215	0.02	2000	
V	51	2	He	0.362	0.362	74.68	5051	0.01	2000	
Cr	52	2	He	13.197	13.197	1.27	125088	0.01	2000	
Fe	56	2	He	167.885	167.885	1.53	1372909	0.01	200000	
Se	78	2	He	0.207	0.207	77.70	195	0.11	2000	
As	75	2	He	0.384	0.384	11.52	734	0.05	2000	
Ca	44	2	He	76356.752	76356.752	0.37	4131246	1.85	200000	
Na	23	2	He	298643.820	298643.820	0.98	445862847	0.07	200000	>LDR
Mg	24	2	He	39634.147	39634.147	0.31	35003529	0.11	200000	
K	39	2	He	591.087	591.087	0.04	771057	0.08	200000	
Mn	55	2	He	140.541	140.541	2.38	936779	0.02	2000	
Co	59	2	He	0.791	0.791	7.72	10391	0.01	2000	
Ni	60	2	He	20.833	20.833	1.52	70281	0.03	2000	
Cu	63	2	He	1.169	1.169	1.37	11398	0.01	2000	
Zn	66	2	He	11.462	11.462	2.29	22446	0.05	2000	
Al	27	2	He	44.791	44.791	1.55	27414	0.16	2000	
B	11	1	No Gas	19.888	19.888	4.98	70781	0.03	2000	
Al	27	1	No Gas	45.880	45.880	3.68	1020590	0.00	2000	
Si	28	1	No Gas	16457.698	16457.698	4.09	179624391	0.01	2000	>LDR
Ag	107	1	No Gas	0.028	0.028	24.02	1497	0.00	2000	
Cd	111	1	No Gas	0.135	0.135	7.00	690	0.02	2000	
Sr	88	1	No Gas	1784.997	1784.997	3.76	75083207	0.00	2000	
Mo	95	1	No Gas	0.614	0.614	12.94	5761	0.01	2000	
Sn	118	1	No Gas	0.158	0.158	11.83	4498	0.00	2000	
Sb	121	1	No Gas	0.098	0.098	5.18	2260	0.00	2000	
Ba	137	1	No Gas	38.629	38.629	1.40	260185	0.01	2000	
Tl	205	1	No Gas	0.016	0.016	16.82	1094	0.00	2000	
Tl	203	1	No Gas	0.016	0.016	7.08	440	0.00	2000	
Pb	208	1	No Gas	0.123	0.123	1.56	7904	0.00	2000	
U	238	1	No Gas	1.139	1.139	0.84	54375	0.00	2000	
Ca	43	2	He	78034.370	78034.370	0.89	255824	30.50	200000	
Sb	121	2	He	0.107	0.107	16.28	1003	0.01	2000	
Ti	47	2	He	2.415	2.415	6.70	793	0.30	2000	
Cu	63	1	No Gas	2.077	2.077	3.60	42330	0.00	2000	
Zn	66	1	No Gas	11.465	11.465	3.15	67217	0.02	2000	
Se	82	1	No Gas	1.443	1.443	15.49	993	0.15	2000	
Cd	111	2	He	0.153	0.153	34.56	329	0.05	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1324545	2.74	1404381	94.32	70	120	
Ge	72	2	He	931086	0.15	1014645	91.76	70	120	
Ge	72	1	No Gas	3455884	0.98	3643991	94.84	70	120	
Bi	209	1	No Gas	2943763	0.52	3283973	89.64	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	046_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061224A.b
Acq Date Time	2024-06-12T12:02:27-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
n	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	94.368	1.831	1935840	2.48	100	94.4	90	110	
Be	9	1	No Gas	88.074	1.568	488182	1.71	100	88.1	90	110	CCV Main CR1-2 Failed
V	51	2	He	97.862	3.498	790907	0.72	100	97.9	90	110	
Cr	52	2	He	101.793	4.626	968484	3.06	100	101.8	90	110	
Fe	56	2	He	9861.136	1.873	84743095	1.27	10000	98.6	90	110	
Se	78	2	He	94.126	4.352	13744	1.52	100	94.1	90	110	
As	75	2	He	95.205	2.039	142829	0.93	100	95.2	90	110	
Ca	44	2	He	9649.045	2.157	564386	1.27	10000	96.5	90	110	
Na	23	2	He	10141.969	2.230	16644816	0.90	10000	101.4	90	110	
Mg	24	2	He	10098.176	1.822	9573268	1.17	10000	101.0	90	110	
K	39	2	He	9620.808	1.865	11300011	0.99	10000	96.2	90	110	
Mn	55	2	He	98.150	2.406	702768	0.80	100	98.1	90	110	
Co	59	2	He	105.714	0.880	1466914	2.11	100	105.7	90	110	
Ni	60	2	He	101.807	1.902	366678	1.01	100	101.8	90	110	
Cu	63	2	He	102.856	1.820	944789	2.25	100	102.9	90	110	
Zn	66	2	He	100.552	1.314	191775	1.56	100	100.6	90	110	
Al	27	2	He	97.151	0.634	61091	2.31	100	97.2	90	110	
B	11	1	No Gas	485.478	3.075	1492852	2.53	500	97.1	90	110	
Al	27	1	No Gas	99.779	2.183	2218420	1.03	100	99.8	90	110	
Si	28	1	No Gas	472.964	3.366	5887839	1.54	5000	9.5	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	103.201	0.799	2579800	0.93	100	103.2	90	110	
Cd	111	1	No Gas	101.905	2.810	532907	1.36	100	101.9	90	110	
Sr	88	1	No Gas	103.284	2.589	4538432	3.36	100	103.3	90	110	
Mo	95	1	No Gas	99.414	2.229	937008	3.77	100	99.4	90	110	
Sn	118	1	No Gas	104.663	1.634	1538865	0.32	100	104.7	90	110	
Sb	121	1	No Gas	103.333	0.670	2152023	1.82	100	103.3	90	110	
Ba	137	1	No Gas	99.604	2.427	709403	0.43	100	99.6	90	110	
Tl	205	1	No Gas	98.109	2.001	3988239	0.11	100	98.1	90	110	
Tl	203	1	No Gas	96.016	3.230	1669099	1.59	100	96.0	90	110	
Pb	208	1	No Gas	101.335	1.722	5781706	0.74	100	101.3	90	110	
U	238	1	No Gas	99.685	2.778	5354039	1.60	100	99.7	90	110	
Ca	43	2	He	9362.315	5.084	33120	2.80	10000	93.6	90	110	
Sb	121	2	He	95.122	3.114	836605	0.80	100	95.1	90	110	
Ti	47	2	He	95.413	3.624	32238	1.90	100	95.4	90	110	
Cu	63	1	No Gas	101.677	1.510	1996706	0.64	100	101.7	90	110	
Se	82	1	No Gas	99.263	1.682	32379	1.37	100	99.3	90	110	
Zr	90	2	He	85.818	2.922	1003325	0.60	100	85.8	90	110	CCV Main CR1-2 Failed
Zr	90	1	No Gas	89.130	2.391	2556884	2.38	100	89.1	90	110	CCV Main CR1-2 Failed
Cd	111	2	He	99.220	2.257	238204	1.18	100	99.2	90	110	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1448654	0.76	1404381	103.15	70	120	
Ge	72	2	He	999634	2.85	1014645	98.52	70	120	
Ge	72	1	No Gas	3599520	1.55	3643991	98.78	70	120	
Bi	209	1	No Gas	3329848	2.09	3283973	101.40	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	047_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061224A.b
Acq Date Time	2024-06-12T12:04:15-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	0.243	66.4	89138	0.4	2.5	
Be	9	1	No Gas	0.011	17.8	72	16.1	2.5	
V	51	2	He	-0.123	-44.9	1371	42.4	2.5	
Cr	52	2	He	-0.294	-63.2	6098	5.3	2.5	
Fe	56	2	He	2.011	62.0	41400	1.7	250	
Se	78	2	He	0.338	106.3	195	4.2	5	
As	75	2	He	0.004	354.2	191	15.6	2.5	
Ca	44	2	He	3.303	649.8	4144	3.8	250	
Na	23	2	He	-67.622	-65.3	255641	0.3	250	
Mg	24	2	He	3.702	23.3	4801	8.8	250	
K	39	2	He	20.681	180.1	140721	2.6	250	
Mn	55	2	He	0.014	409.3	2007	7.5	2.5	
Co	59	2	He	0.011	46.7	280	15.6	2.5	
Ni	60	2	He	0.119	37.4	793	8.9	2.5	
Cu	63	2	He	0.010	545.6	1357	15.1	5	
Zn	66	2	He	1.052	40.3	3861	6.1	2.5	
Al	27	2	He	0.101	701.6	2064	6.1	2.5	
B	11	1	No Gas	1.148	36.2	20617	5.3	10	
Al	27	1	No Gas	-0.424	-25.1	74061	2.0	2.5	
Si	28	1	No Gas	-5.824	-15.9	485092	1.0	10	
Ag	107	1	No Gas	0.003	157.3	1007	15.1	2.5	
Cd	111	1	No Gas	0.007	55.1	63	32.9	2.5	
Sr	88	1	No Gas	-0.027	-9.8	12129	1.5	2.5	
Mo	95	1	No Gas	0.116	26.9	1377	21.4	2.5	
Sn	118	1	No Gas	0.088	21.5	3847	6.4	2.5	
Sb	121	1	No Gas	0.056	14.8	1553	11.1	2.5	
Ba	137	1	No Gas	-0.055	-21.4	543	15.7	2.5	
Tl	205	1	No Gas	0.662	43.3	28275	42.5	2.5	
Tl	203	1	No Gas	0.649	45.0	11835	44.2	2.5	
Pb	208	1	No Gas	0.000	1104.3	1990	7.9	2.5	
U	238	1	No Gas	0.015	13.6	1147	9.6	2.5	
Ca	43	2	He	9.342	138.9	220	9.1	250	
Sb	121	2	He	0.058	33.9	550	9.6	2.5	
Ti	47	2	He	-0.078	-65.4	7	173.2	2.5	
Cu	63	1	No Gas	0.002	503.0	3584	6.3	2.5	
Se	82	1	No Gas	-0.024	-1391.4	593	17.7	5	
Zr	90	2	He	0.155	13.1	2554	15.0	5	
Zr	90	1	No Gas	0.263	18.8	9717	14.4	5	
Cd	111	2	He	-0.004	-174.7	-16	-78.5	2.5	

Continuing Calibration Blank (CCB) Report

QC ISTD Table

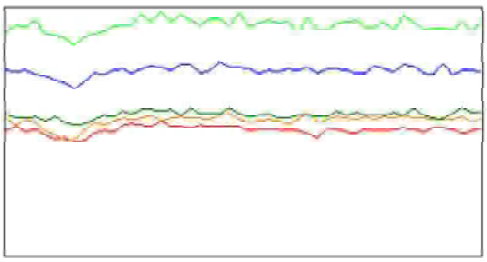
Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1459885	3.71	1404381	103.95	70	120	
Ge	72	2	He	880580	22.26	1014645	86.79	70	120	
Ge	72	1	No Gas	3787400	1.35	3643991	103.94	70	120	
Bi	209	1	No Gas	3425424	0.28	3283973	104.31	70	120	

Tune Check Report

Operator Name	ALSHS NoUser
Acq/Data Batch	C:\Agilent\ICPMH\1\DATA\061224A.b
Acq. Date-Time	6/12/2024 9:42:33 AM
Report Comment	---
Instrument Name	G8421A SG18523544

[No Gas]

Sensitivity



Sampling Period [sec]	0.514
Integration Time [sec]	0.1

Mass	Range	Count	Resp [cps/ug/l]	Resp (Required) [cps/ug/l]	Resp (Flag)
9	10000	5112	51117.39		
24	20000	18685	186851.61		
59	50000	37435	374348.82		
115	100000	54917	549172.48		
208	50000	28603	286025.23		

Mass	Resp Ratio	Resp Ratio (Required)	Resp Ratio (Flag)
9		-	
24		-	
59		-	
115		-	
208		-	

Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	3.272	5.000	
24	2.950	5.000	
59	2.613	5.000	
115	4.113	5.000	
208	2.694	5.000	

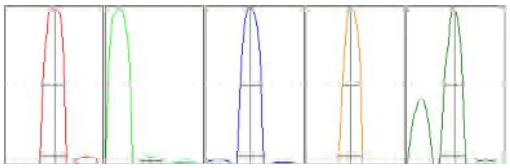
Mass	Background	Background (Required)	Background (Flag)
9	2.000		
24	0.700		
59	0.500		
115	0.600		
208	2.200		

Oxide/Doubly Charged Ratio

Oxide	156 / 140 1.007 %
Doubly Charged	70 / 140 1.010 %

Tune Check Report

Resolution/Axis



Integration Time [sec]	0.1
Acquisition Time [sec]	37.4
Y Axis	Linear

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	5131.71	9.05	8.90 - 9.10	
24	18642.61	23.90	23.90 - 24.10	
59	38196.75	58.90	58.90 - 59.10	
115	58077.46	114.90	114.90 - 115.10	
208	28498.96	208.00	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.67	0.789		
24	0.67	0.787		
59	0.62	0.784		
115	0.55	0.721		
208	0.57	0.773		

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.65 L/min	Dilution Gas	0.44 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	9.0 V	Deflect	16.0 V
Extract 2	-190.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-90 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	185 V		

QP Parameters

Mass Gain	130	Axis Gain	0.9994	QP Bias	-3.0 V
Mass Offset	125	Axis Offset	0.10		

Hardware Settings

Torch

Torch H	0.6 mm	Torch V	-0.1 mm

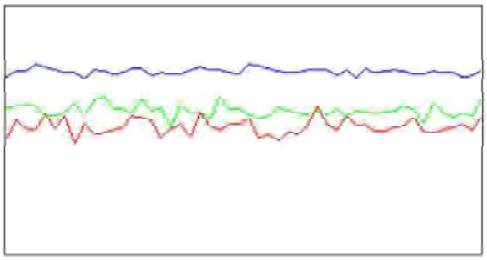
EM

Discriminator	4.5 mV	Analog HV	2162 V	Pulse HV	1064 V

[He]

Tune Check Report

Sensitivity



Sampling Period [sec]	0.306
Integration Time [sec]	0.1

Mass	Range	Count	Resp [cps/ug/l]	Resp (Required) [cps/ug/l]	Resp (Flag)
9	500	258	2575.63		
24	2000	1163	11633.42		
59	20000	14781	147811.35		

Mass	Resp Ratio	Resp Ratio (Required)	Resp Ratio (Flag)
9		-	
24		-	
59		-	

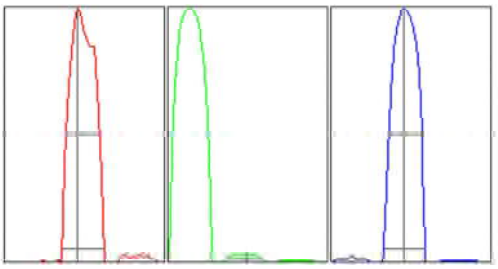
Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	6.179	5.000	Fail
24	4.206	5.000	
59	1.738	5.000	

Mass	Background	Background (Required)	Background (Flag)
9	0.300		
24	0.500		
59	0.100		

Oxide/Doubly Charged Ratio

Oxide	156 / 140 1.220 %
Doubly Charged	70 / 140 1.053 %

Resolution/Axis



Integration Time [sec]	0.1
Acquisition Time [sec]	22.24
Y Axis	Linear

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	260.28	8.90	8.90 - 9.10	
24	1187.55	24.00	23.90 - 24.10	
59	15169.37	58.90	58.90 - 59.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.64	0.787		
24	0.66	0.787		

Tune Check Report

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
59	0.61	0.780		

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.65 L/min	Dilution Gas	0.44 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	9.0 V	Deflect	1.4 V
Extract 2	-190.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-90 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	3.7 mL/min	OctP Bias	-15.0 V		
H2 Flow	0.0 mL/min	OctP RF	200 V		

QP Parameters

Mass Gain	130	Axis Gain	0.9994	QP Bias	-11.0 V
Mass Offset	125	Axis Offset	0.10		

Hardware Settings

Torch

Torch H	0.6 mm	Torch V	-0.1 mm		

EM

Discriminator	4.5 mV	Analog HV	2162 V	Pulse HV	1064 V

Prep Batch Report

Batch ID:	213215	**Init Sample Weight / Volume:**	10
Prep Code:	3010A	**Final Sample Volume:**	10
Start Date:	08 Jun 2024 11:00 AM	**Original Factor:**	1
End Date:	08 Jun 2024 03:00 PM	**Prep Unit Factor:**	1
Technician:	Dominique Mitchel	**Prep Unit:**	mL

Sample ID	Fraction	Matrix	pH	Initial Weight / Volume	Final Volume	Prep Factor	Spike Factor	Comments
HS24051959-05	B	Water	<2	10	10	1	1	DOD
HS24051959-05MS	A		<2	10	10	1	1	
HS24051959-05MSD	A		<2	10	10	1	1	
HS24051959-05PDS	A		<2	10	10	1	1	
HS24051959-05SD	A		<2	10	10	1	1	
HS24051959-06	B	Water	<2	10	10	1	1	
HS24051959-10	B	Water	<2	10	10	1	1	
HS24051959-11	B	Water	<2	10	10	1	1	
HS24051959-12	B	Water	<2	10	10	1	1	
HS24051959-15	B	Water	<2	10	10	1	1	
HS24051959-16	B	Water	<2	10	10	1	1	
LCS-213215	A			10	10	1	1	
MBLK-213215	A			10	10	1	1	

Prep Batch Report

Batch ID:	213215	**Init Sample Weight / Volume:**	10
Prep Code:	3010A	**Final Sample Volume:**	10
Start Date:	08 Jun 2024 11:00 AM	**Original Factor:**	1
End Date:	08 Jun 2024 03:00 PM	**Prep Unit Factor:**	1
Technician:	Dominique Mitchel	**Prep Unit:**	mL

Stage	Description	Value
3010A	Hot Block ID	HB5
3010A	Thermometer ID	W21973
3010A	Thermometer Location	E7
3010A	Dig. Cup ID	3111202421
3010A	FilterMate ID	NA
3010A	LCS/MS Spike ID	3111202408
3010A	LCS/MS Volume, mL	0.05
3010A	HNO3 ID	3111-202514
3010A	HCl ID	3111-202416
3010A	Method for HS-MET002 SOP (3010A)	Method SW3010A
3010A	Dig. Start Temp (U)	95
3010A	Dig. Start Temp (C)	95
3010A	Dig. End Temp (U)	95
3010A	Dig. End Temp (C)	95
3010A	pH Paper:	3111201820
MET	Pipette #3	ICP#10(0.05ML)
MET	Pipette #1	MP#11(10ML)/ICP#13 (1ML)