LONGHORN ARMY AMMUNITION PLANT KARNACK, TEXAS

ADMINISTRATIVE RECORD

Volume 5

2025

Bate Stamp Numbers
01295870 – 01297807

Prepared for

Department of the Army
Longhorn Army Ammunition Plant

1976–2025

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

VOLUME 5

2025

A. Title: (Cont'd) Report – Appendix C labs File 1 to Draft Quarterly Evaluation Report, 2nd Quarter (April–June) 2024 Groundwater Treatment Plant, Longhorn Army Ammunition Plant, Karnack, Texas
Author(s): PCI-Bhate JV
Recipient: Longhorn Army Ammunition Plant
Date: March 7, 2025
Bate Stamp: 01295870–01296759

B. Title: (Cont'd) Report – Appendix C labs File 2 to Draft Quarterly Evaluation Report, 2nd Quarter (April–June) 2024 Groundwater Treatment Plant, Longhorn Army Ammunition Plant, Karnack, Texas
Author(s): PCI-Bhate JV
Recipient: Longhorn Army Ammunition Plant
Date: March 7, 2025
Bate Stamp: 01296760–01297807

Form 8 - Internal Standard Area and RT Summary

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder HS24060694

EPA SW8260

VOA9_470169		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)	U62102.D	233200	#	4.82	#	326985	#	5.55	#	298373	#	8.19	#	168763	#	10.17	#
HS24060694-01	U62127.D	234371		4.81		331761		5.55		302325		8.19		160755		10.17	
HS24060694-02	U62128.D	219303		4.82		315570		5.55		288824		8.19		155025		10.17	
HS24060694-03	U62129.D	223578		4.82		318029		5.55		291300		8.19		153751		10.17	
HS24060694-04	U62130.D	182943		4.81		257019		5.55		232240		8.19		125498		10.17	
VBLKW-240621	U62106.D	231770		4.81		332936		5.55		298711		8.19		158104		10.17	
VLCSDW-240621	U62104.D	233940		4.82		327970		5.55		297960		8.19		169196		10.17	
VLCSW-240621	U62103.D	240309		4.81		337727		5.55		303393		8.19		167540		10.17	
MS-ZZZZZZMS	U62117.D	231811		4.81		327515		5.55		298467		8.19		170034		10.17	
ZZZZZZMSD	U62118.D	233942		4.82		331583		5.55		296863		8.19		167781		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 18 24

Workorder HS24060694

EPA SW8260

VOA9_470230		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)	U62202.D	235980	#	4.82	#	331039	#	5.55	#	303395	#	8.19	#	171616	#	10.17	#
HS24060694-05	U62216.D	241991		4.81		348621		5.55		318945		8.19		166810		10.17	
HS24060694-06	U62217.D	236565		4.82		335089		5.55		302083		8.19		160468		10.17	
HS24060694-07	U62218.D	227412		4.82		323173		5.55		292892		8.19		155979		10.17	
HS24060694-08	U62219.D	227530		4.81		324992		5.55		292251		8.19		157945		10.17	
HS24060694-09	U62231.D	226023		4.82		316060		5.55		283212		8.19		152681		10.17	
VBLKW-240622	U62206.D	239948		4.82		341369		5.55		305002		8.19		163422		10.17	
VLCSW-240622	U62203.D	240553		4.82		339197		5.55		307216		8.19		171856		10.17	
MS-ZZZZZZMS	U62222.D	232258		4.82		335976		5.55		289618		8.19		163687		10.17	
ZZZZZZMSD	U62223.D	234851		4.82		330055		5.55		296934		8.19		166314		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 18 24

Workorder HS24060694

EPA SW8260

VOA9_470367		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)	U62402.D	239809	#	4.82	#	339582	#	5.55	#	310203	#	8.19	#	174679	#	10.17	#
HS24060694-04	U62423.D	201629		4.81		292483		5.55		261818		8.19		132688		10.17	
VBLKW-240624	U62406.D	231699		4.82		335457		5.55		301738		8.19		156909		10.17	
VLCSDW-240624	U62404.D	234234		4.81		338497		5.55		303246		8.19		168940		10.17	
VLCSW-240624	U62403.D	242709		4.81		349686		5.55		310118		8.19		168863		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

right solutions.
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Analysis Run Log

Volatiles by EPA 8260C

Workorder

HS24060694

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

07/24/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

ALS Houston, US

Date: 24-Jul-24

FORM 8 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060694

Run ID:VOA9_470156
Instrument:VOA9
Start Date: 20-Jun-2024 End Date: 20-Jun-2024

Client Samp ID	Samp ID	D/F	Time	File ID
BFB	BFB	1	20-Jun-2024 11:02	U62001.D
VSTD00.25	VSTD00.25	1	20-Jun-2024 11:23	U62002.D
VSTD00.5	VSTD00.5	1	20-Jun-2024 11:44	U62003.D
VSTD001	VSTD001	1	20-Jun-2024 12:06	U62004.D
VSTD002	VSTD002	1	20-Jun-2024 12:27	U62005.D
VSTD005	VSTD005	1	20-Jun-2024 12:49	U62006.D
VSTD020	VSTD020	1	20-Jun-2024 13:10	U62007.D
VSTD050	VSTD050	1	20-Jun-2024 13:32	U62008.D
VSTD100	VSTD100	1	20-Jun-2024 13:53	U62009.D
VSTD150	VSTD150	1	20-Jun-2024 14:15	U62010.D
VSTD200	VSTD200	1	20-Jun-2024 14:36	U62011.D
BFB	BFB	1	20-Jun-2024 15:19	U62013.D
VSTD050	ICV	1	20-Jun-2024 15:40	U62014.D

ALS Houston, US

Date: 24-Jul-24

FORM 8 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060694

Run ID:VOA9_470169
Instrument:VOA9
Start Date: 21-Jun-2024 End Date: 21-Jun-2024

Client Samp ID	Samp ID	D/F	Time	File ID
BFB	BFB	1	21-Jun-2024 09:24	U62101.D
VSTD050	VSTD050	1	21-Jun-2024 09:46	U62102.D
VLCSW-240621	VLCSW-240621	1	21-Jun-2024 10:28	U62103.D
VLCSDW-240621	VLCSDW-240621	1	21-Jun-2024 10:50	U62104.D
VBLKW-240621	VBLKW-240621	1	21-Jun-2024 11:32	U62106.D
ZZZZZZZZZZ	HS24060747-08	1	21-Jun-2024 15:12	U62116.D
ZZZZZZMS	HS24060747-08MS	1	21-Jun-2024 15:34	U62117.D
ZZZZZZMSD	HS24060747-08MSD	1	21-Jun-2024 15:55	U62118.D
ZZZZZZZZZZ	HS24060747-07	1	21-Jun-2024 16:16	U62119.D
ZZZZZZZZZZ	HS24060747-09	1	21-Jun-2024 16:38	U62120.D
ZZZZZZZZZZ	HS24060747-03	10	21-Jun-2024 17:02	U62121.D
ZZZZZZZZZZ	HS24060747-01	100	21-Jun-2024 17:23	U62122.D
ZZZZZZZZZZ	HS24060747-02	100	21-Jun-2024 17:45	U62123.D
ZZZZZZZZZZ	HS24060747-04	100	21-Jun-2024 18:06	U62124.D
ZZZZZZZZZZ	HS24060747-05	500	21-Jun-2024 18:28	U62125.D
ZZZZZZZZZZ	HS24060747-06	100	21-Jun-2024 18:49	U62126.D
MW3_061124	HS24060694-01	1	21-Jun-2024 19:11	U62127.D
18CPTMW12SW_061124	HS24060694-02	1	21-Jun-2024 19:32	U62128.D
18CPTMW12DW_061124	HS24060694-03	1	21-Jun-2024 19:53	U62129.D
MW7_061124	HS24060694-04	1	21-Jun-2024 20:18	U62130.D
VSTD050	VSTD050	1	21-Jun-2024 20:39	U62142.D

ALS Houston, US

Date: 24-Jul-24

FORM 8 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060694

Run ID:VOA9_470230
Instrument:VOA9
Start Date: 22-Jun-2024 End Date: 23-Jun-2024

Client Samp ID	Samp ID	D/F	Time	File ID
BFB	BFB	1	22-Jun-2024 12:42	U62201.D
VSTD050	VSTD050	1	22-Jun-2024 13:24	U62202.D
VLCSW-240622	VLCSW-240622	1	22-Jun-2024 13:46	U62203.D
VBLKW-240622	VBLKW-240622	1	22-Jun-2024 14:50	U62206.D
18CPTMW26SW_061124	HS24060694-05	1	22-Jun-2024 18:51	U62216.D
130_061124	HS24060694-06	1	22-Jun-2024 19:13	U62217.D
18CPTMW19_061124	HS24060694-07	1	22-Jun-2024 19:34	U62218.D
18CPTMW19SW_061124	HS24060694-08	1	22-Jun-2024 19:56	U62219.D
ZZZZZZZZZZ	HS24060905-08	1	22-Jun-2024 20:41	U62221.D
ZZZZZZMS	HS24060905-08MS	1	22-Jun-2024 21:03	U62222.D
ZZZZZZMSD	HS24060905-08MSD	1	22-Jun-2024 21:24	U62223.D
Trip Blank	HS24060694-09	1	23-Jun-2024 00:11	U62231.D
VSTD050	VSTD050	1	23-Jun-2024 00:32	U62232.D

ALS Houston, US

Date: 24-Jul-24

FORM 8 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060694

Run ID:VOA9_470367
Instrument:VOA9
Start Date: 24-Jun-2024 End Date: 24-Jun-2024

Client Samp ID	Samp ID	D/F	Time	File ID
BFB	BFB	1	24-Jun-2024 10:43	U62401.D
VSTD050	VSTD050	1	24-Jun-2024 11:05	U62402.D
VLCSW-240624	VLCSW-240624	1	24-Jun-2024 12:32	U62403.D
VLCSDW-240624	VLCSDW-240624	1	24-Jun-2024 12:54	U62404.D
VBLKW-240624	VBLKW-240624	1	24-Jun-2024 13:37	U62406.D
MW7_061124	HS24060694-04	10	24-Jun-2024 19:45	U62423.D
ZZZZZZZZZZ	HS24060781-02	1	24-Jun-2024 20:07	U62424.D
ZZZZZZZZZZ	HS24060781-01	1	24-Jun-2024 20:29	U62425.D
ZZZZZZZZZZ	HS24060795-03	1	24-Jun-2024 21:12	U62427.D
VSTD050	VSTD050	1	24-Jun-2024 21:33	U62428.D

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RawData

Volatiles by EPA 8260C

Workorder

HS24060694

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

07/24/2024

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\U240620.b\U62001.D Page 1
Report Date: 20-Jun-2024 11:18

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240620.b\U62001.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 20-JUN-2024 11:02
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\U240620.b\8260C.m
Meth Date : 19-Jun-2024 08:59 Quant Type: ISTD
Cal Date : 18-JUN-2024 11:55 Cal File: U61803.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	4.815	4.811	(1.000)	257920	50.0000		
	2 Dichlorodifluoromethane	85	1.021	1.156	(0.212)	10702	8.10929		
	3 Chloromethane	50	1.014	1.291	(0.211)	9354	0.96322		
	5 Vinyl Chloride	62	1.014	1.374	(0.211)	17034	8.39072		
	15 Iodomethane	142	2.472	2.457	(0.513)	1232	6.21403		
$	30 Dibromofluoromethane	113	4.747	4.744	(0.986)	96395	58.7541		(R)
	33 1,2-Dichloroethane	62	5.553	5.171	(1.000)	13302	4.31972		
	34 Carbon Tetrachloride	117	4.815	4.905	(0.867)	24018	11.5765		
$	35 1,2-Dichloroethane-d4	65	5.096	5.093	(1.058)	120650	61.5919		(R)
*	36 1,4-Difluorobenzene	114	5.553	5.550	(1.000)	380982	50.0000		
	42 1,2-Dichloropropane	63	5.553	6.007	(1.000)	80286	43.2407		
	45 4-Methyl-2-Pentanone	43	6.922	6.851	(0.846)	1912	1.25232		
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	340517	50.0000		
$	48 Toluene-d8	98	6.922	6.922	(0.846)	378496	64.2655		(R)
	49 Ethyl Methacrylate	69	6.922	7.289	(1.246)	1297	0.13078		
	58 1-Chlorohexane	55	8.185	8.185	(1.474)	3665	0.21049		
$	69 4-Bromofluorobenzene	95	9.193	9.197	(1.123)	133571	59.2548		(R)
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	174698	50.0000		
	71 1,2,3-Trichloropropane	75	9.193	9.362	(0.904)	65984	34.2955		
	86 Benzyl Chloride	91	10.314	10.315	(1.260)	82137	36.5103		

141	Cyclohexane	56	4.815	4.811 (1.000)	4898	0.19936
166	1,2,3-Trimethylbenzene	105	10.314	10.236 (1.014)	1444	0.70121

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
203 2-Ethylhexyl Acrylate	55	11.979	12.046	(1.178)	1696	1.31708	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62002.D Page 1
Report Date: 09-Jul-2024 16:04

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62002.D
Lab Smp Id: VSTD00.25 Client Smp ID: VSTD00.25
Inj Date : 20-JUN-2024 11:23
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\U240620.b\8260C.m
Meth Date : 09-Jul-2024 16:04 VOA9.i Quant Type: ISTD
Cal Date : 20-JUN-2024 11:23 Cal File: U62002.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

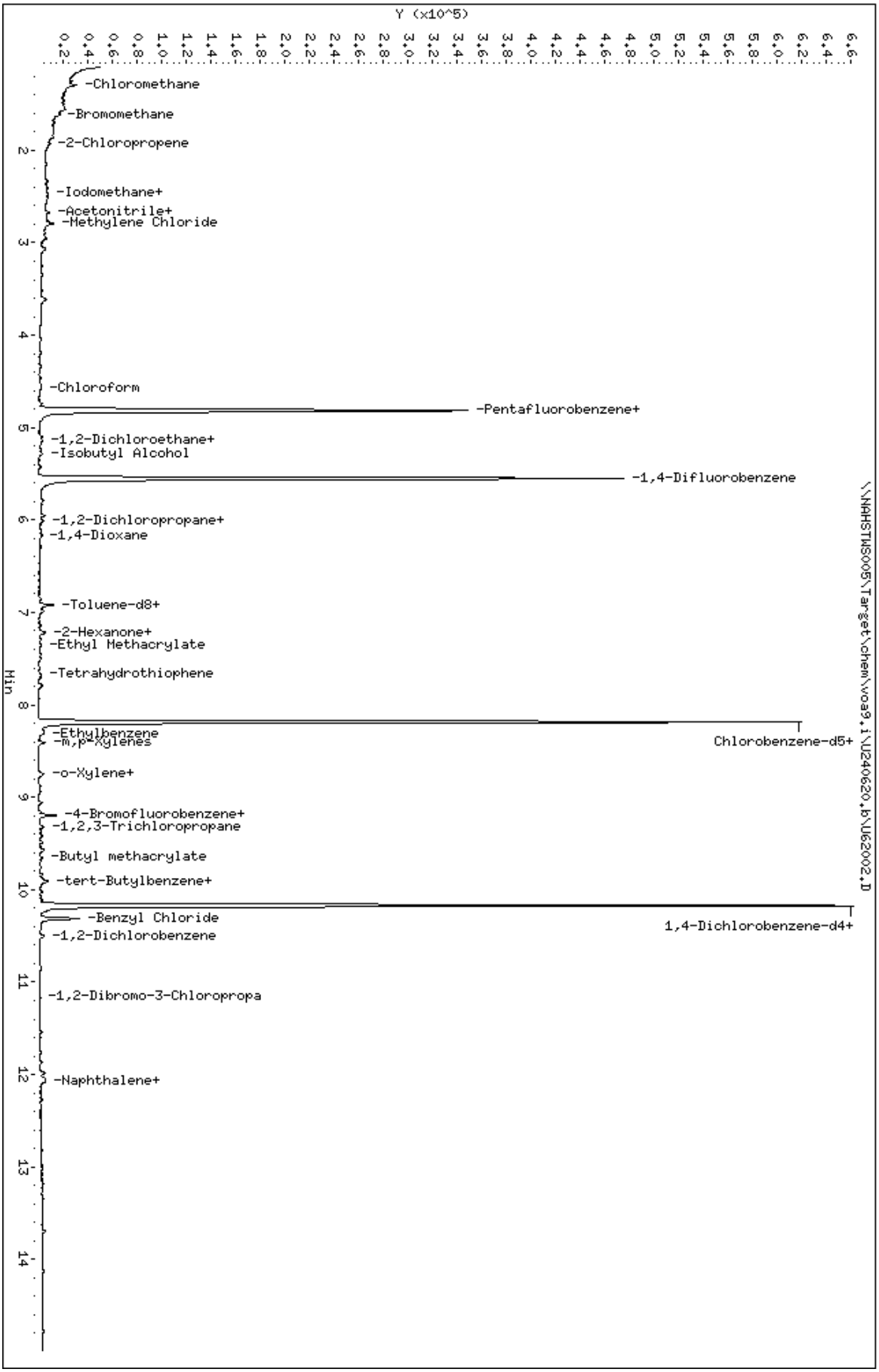
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Pentafluorobenzene	168	4.815	4.815	(1.000)	252013	50.0000	
	2 Dichlorodifluoromethane	85	1.037	1.037	(0.215)	1293	0.25000	0.71
	5 Vinyl Chloride	62	1.007	1.007	(0.209)	8422	0.25000	3.88
	12 Isobutyl Alcohol	43	5.288	5.288	(1.098)	1699	5.00000	6.82(Ta)
	13 Acetonitrile	39	2.667	2.667	(0.554)	870	2.50000	(a)
	14 Allyl Chloride	41	2.671	2.671	(0.555)	1866	0.25000	(a)
	15 Iodomethane	142	2.465	2.465	(0.512)	1069	0.50000	2.36(T)
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	1136	0.25000	0.67
	32 1,1-Dichloropropene	75	4.812	4.812	(0.867)	17943	0.25000	7.96
	34 Carbon Tetrachloride	117	4.815	4.815	(0.868)	23171	0.25000	12.27
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	1510	50.0000	0.70(T)
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	369287	50.0000	
	37 Benzene	78	5.141	5.141	(0.926)	2419	0.25000	0.31(a)
	42 1,2-Dichloropropane	63	6.004	6.004	(1.082)	656	0.25000	0.32(a)
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	325076	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	7499	50.0000	1.18(a)
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	690	0.25000	0.29(a)
	50 Toluene	91	6.982	6.982	(0.853)	2002	0.25000	0.27(a)
	58 1-Chlorohexane	55	8.185	8.185	(1.475)	3366	0.25000	1.66(a)
	61 Ethylbenzene	106	8.309	8.309	(1.015)	643	0.25000	0.28(a)

62 m,p-Xylenes	106	8.407	8.407 (1.027)	1224	0.50000	0.44(a)
63 o-Xylene	106	8.748	8.748 (1.069)	607	0.25000	0.22(a)

							AMOUNTS	
		QUANT SIG					CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
	64 Styrene	104	8.763	8.763	(1.071)	934	0.25000	0.20(a)
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	3971	50.0000	1.60(a)
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	164222	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	607	0.25000	1.11(a)
	78 tert-Butylbenzene	119	9.839	9.839	(0.967)	877	0.25000	0.20(Ta)
	79 1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	1067	0.25000	0.20(a)
	83 1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	909	0.25000	0.25(a)
	86 Benzyl Chloride	91	10.315	10.315	(1.260)	21955	0.25000	2.75(a)
	88 1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	961	0.25000	0.27(a)
	89 1,2-Dibromo-3-Chloropropane	155	11.162	11.162	(1.097)	23	0.25000	0.33(aM)
	92 Naphthalene	128	12.076	12.076	(1.187)	1179	0.25000	2.18(a)
	141 Cyclohexane	56	4.812	4.812	(0.999)	5136	0.25000	1.18(a)
	147 Methylcyclohexane	55	5.947	5.947	(1.072)	1403	0.25000	0.35(a)
	149 Isopropyl alcohol	45	2.559	2.559	(0.531)	1216	5.00000	(Ta)
	166 1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	1606	0.25000	0.34(a)
	151 4-Methyl-2-pentanol	45	7.218	7.218	(1.301)	3353	5.00000	6.58
	134 Cyclohexanone	55	9.156	9.156	(0.900)	662	5.00000	(Ta)
	203 2-Ethylhexyl Acrylate	55	12.046	12.046	(1.184)	1668	0.25000	2.21(a)
	204 Tetrahydrothiophene	60	7.672	7.672	(0.937)	799	0.25000	0.43(aA)
	205 sec-Butyl Ether	57	7.214	7.214	(0.881)	876	0.25000	0.24(aA)
	206 2-Chloropropene	41	1.925	1.925	(0.400)	1159	0.25000	0.44(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.
M - Compound response manually integrated.



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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

Page 1

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62002.D
Inj Date : 20-JUN-2024 11:23
InstruID : VOA9.i
LabSampID : VSTD00.25

1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

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29-Jun-2024
12:15
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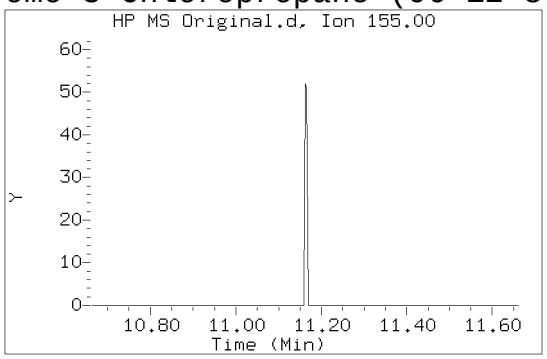

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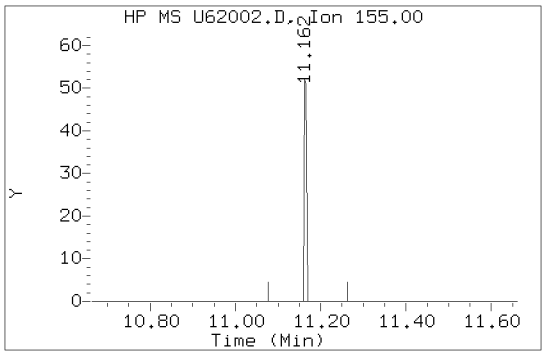

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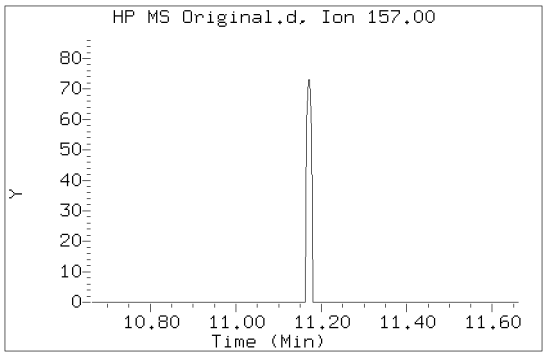

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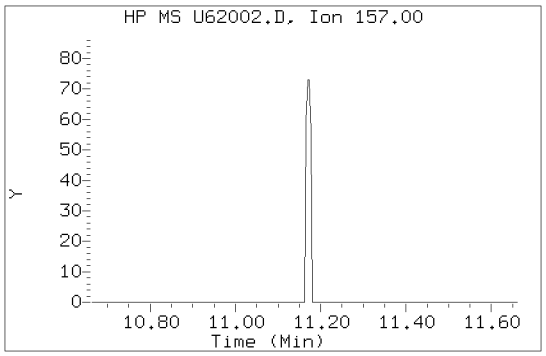

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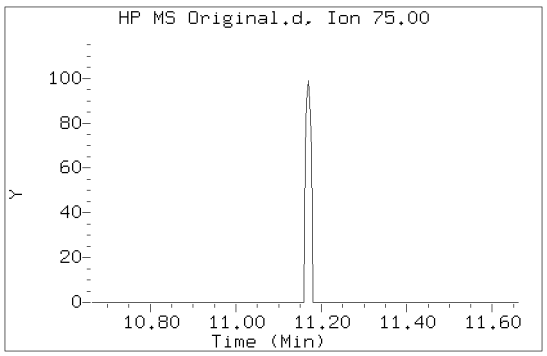

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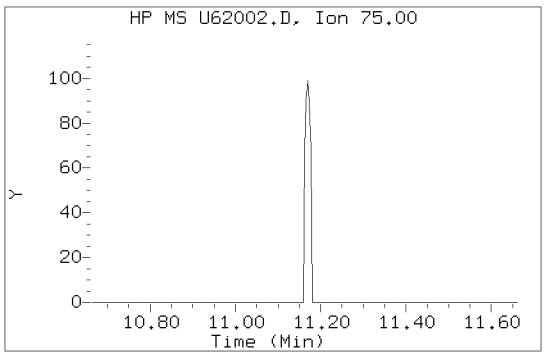

1,4-Dioxane ()

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12:15
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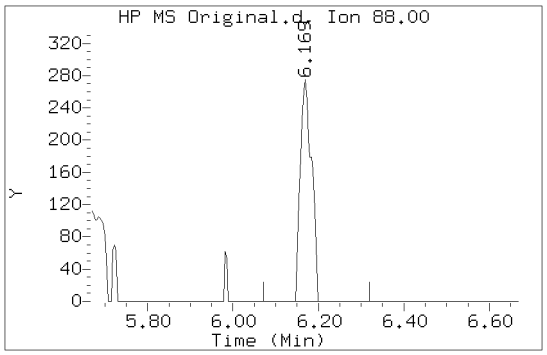

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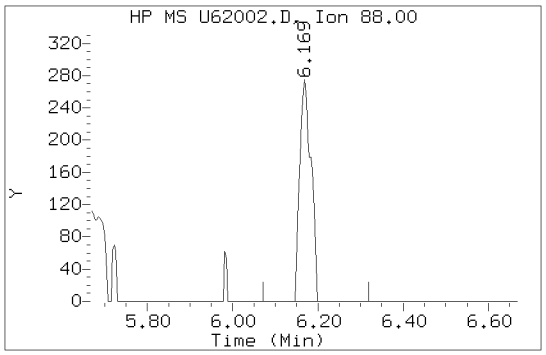

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Inj Date : 20-JUN-2024 11:23
InstruID : VOA9.i
LabSampID : VSTD00.25

1,4-Dioxane ()

Reason Code:

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29-Jun-2024
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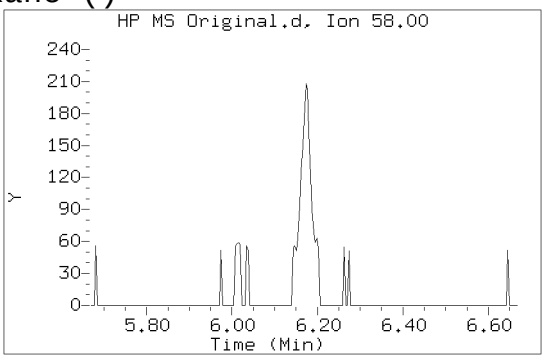

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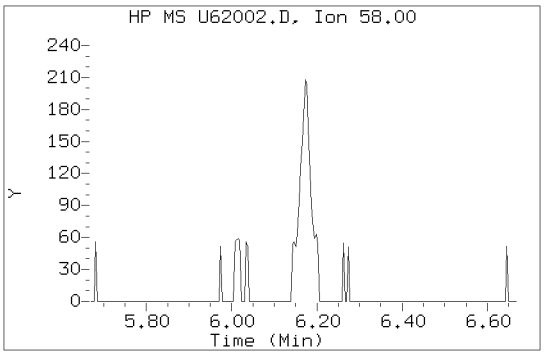

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62003.D Page 1
Report Date: 29-Jun-2024 12:19

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62003.D
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Inj Date : 20-JUN-2024 11:44
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\U240620.b\8260C.m
Meth Date : 29-Jun-2024 12:19 VOA9.i Quant Type: ISTD
Cal Date : 20-JUN-2024 14:36 Cal File: U62011.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: NAHSTW7014

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)	236632	50.0000	
2 Dichlorodifluoromethane	85	1.171	1.171	(0.243)	731	0.50000	0.43(aM)
3 Chloromethane	50	1.303	1.303	(0.271)	7597	0.50000	0.50
4 Propionitrile	54	4.343	4.343	(0.902)	1664	5.00000	0.96(aM)
5 Vinyl Chloride	62	1.385	1.385	(0.288)	1139	0.50000	0.66(M)
8 Trichlorofluoromethane	101	1.895	1.895	(0.394)	1012	0.50000	0.44(a)
11 1,1-Dichloroethene	96	2.333	2.333	(0.485)	717	0.50000	0.51(M)
12 Isobutyl Alcohol	43	5.287	5.287	(1.098)	2668	10.0000	11.42(a)
13 Acetonitrile	39	2.675	2.675	(0.555)	1086	5.00000	(a)
14 Allyl Chloride	41	2.675	2.675	(0.555)	3115	0.50000	0.24(a)
15 Iodomethane	142	2.472	2.472	(0.513)	1369	1.00000	3.09(T)
16 Acrylonitrile	53	3.072	3.072	(0.638)	1025	1.00000	1.27
17 Methylene Chloride	84	2.798	2.798	(0.581)	2895	0.50000	0.15(a)
18 Methyl tert-butyl ether	73	3.083	3.083	(0.640)	2745	0.50000	1.08
19 Carbon Disulfide	76	2.525	2.525	(0.524)	3918	1.00000	1.02
20 trans-1,2-Dichloroethene	96	3.061	3.061	(0.636)	1102	0.50000	0.14(Ta)
21 Vinyl Acetate	43	4.350	4.350	(0.903)	1114	1.00000	1.03(M)
23 Chloroprene	53	3.615	3.615	(0.751)	1330	0.50000	0.31(a)
24 2-Butanone	43	4.279	4.279	(0.889)	1392	1.00000	1.84(M)
25 Methacrylonitrile	41	4.500	4.500	(0.935)	715	0.50000	1.50(aM)

26 2,2-Dichloropropane	77	4.182	4.182 (0.868)	1204	0.50000	1.10(M)
27 cis-1,2-Dichloroethene	96	4.197	4.197 (0.872)	1138	0.50000	0.29(a)

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62003.D Page 2
Report Date: 29-Jun-2024 12:19

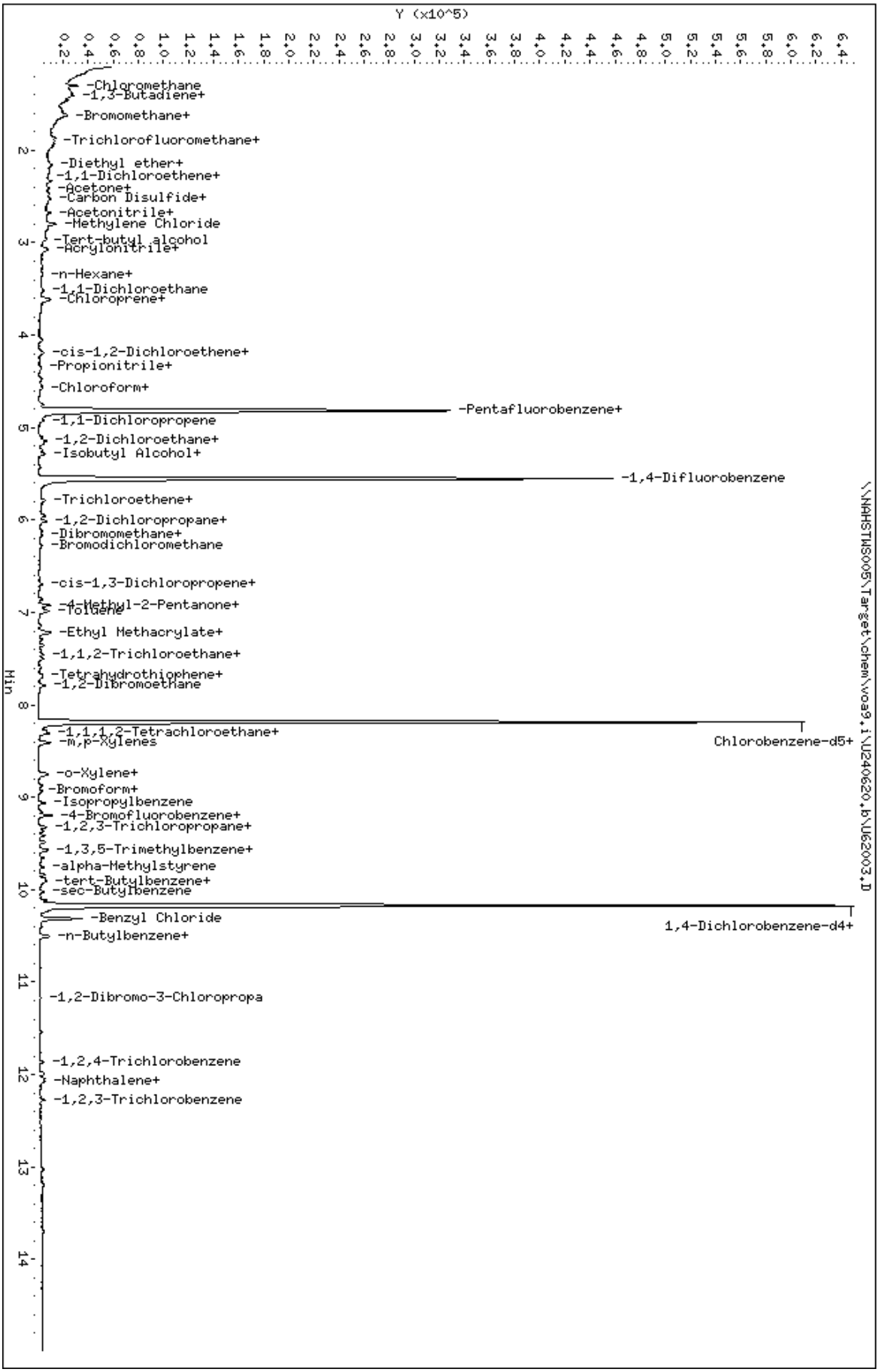
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
29	Bromochloromethane	128	4.474	4.474	(0.929)	578	0.50000	0.61(M)
$ 30	Dibromofluoromethane	113	4.751	4.751	(0.987)	1351	0.50000	0.85
31	1,1,1-Trichloroethane	97	4.744	4.744	(0.985)	1050	0.50000	0.47(a)
32	1,1-Dichloropropene	75	4.924	4.924	(0.887)	1295	0.50000	0.60(M)
34	Carbon Tetrachloride	117	4.909	4.909	(0.884)	853	0.50000	0.47(aM)
$ 35	1,2-Dichloroethane-d4	65	5.100	5.100	(1.059)	1847	0.50000	0.92(T)
* 36	1,4-Difluorobenzene	114	5.554	5.554	(1.000)	349852	50.0000	
37	Benzene	78	5.141	5.141	(0.926)	4827	0.50000	0.67
38	Trichloroethene	130	5.790	5.790	(1.043)	987	0.50000	0.56(aM)
39	Bromodichloromethane	83	6.281	6.281	(1.131)	1081	0.50000	0.53(aM)
40	Methyl Methacrylate	41	5.835	5.835	(1.212)	269	0.50000	0.43(aM)
42	1,2-Dichloropropane	63	6.011	6.011	(1.082)	1221	0.50000	0.64(a)
44	Dibromomethane	93	6.116	6.116	(1.101)	723	0.50000	0.64(a)
45	4-Methyl-2-Pentanone	43	6.854	6.854	(0.837)	2018	1.00000	1.15(a)
46	cis-1,3-Dichloropropene	75	6.689	6.689	(1.205)	1255	0.50000	0.52(aM)
* 47	Chlorobenzene-d5	117	8.185	8.185	(1.000)	315910	50.0000	
$ 48	Toluene-d8	98	6.922	6.922	(0.846)	5908	0.50000	0.96(a)
49	Ethyl Methacrylate	69	7.293	7.293	(1.313)	1395	0.50000	0.62(a)
50	Toluene	91	6.982	6.982	(0.853)	4147	0.50000	0.57(a)
51	trans-1,3-Dichloropropene	75	7.203	7.203	(1.297)	864	0.50000	2.59(a)
52	2-Hexanone	43	7.218	7.218	(0.882)	2202	1.00000	1.02(a)
53	1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	876	0.50000	0.62(a)
54	1,3-Dichloropropane	76	7.499	7.499	(0.916)	1760	0.50000	0.60(a)
55	Dibromochloromethane	129	7.690	7.690	(0.940)	629	0.50000	0.43(aM)
56	Tetrachloroethene	164	7.458	7.458	(0.911)	635	0.50000	0.47(a)
57	1,2-Dibromoethane	107	7.788	7.788	(0.951)	917	0.50000	0.59(a)
58	1-Chlorohexane	55	8.185	8.185	(1.474)	3858	0.50000	2.17(a)
60	1,1,1,2-Tetrachloroethane	131	8.286	8.286	(1.012)	868	0.50000	0.56(a)
61	Ethylbenzene	106	8.309	8.309	(1.015)	1196	0.50000	0.53(a)
62	m,p-Xylenes	106	8.410	8.410	(1.027)	2596	1.00000	0.97(a)
63	o-Xylene	106	8.751	8.751	(1.069)	1290	0.50000	0.49(a)
64	Styrene	104	8.762	8.762	(1.071)	2162	0.50000	0.49(a)
66	Bromoform	173	8.916	8.916	(1.089)	363	0.50000	1.32(aM)
67	Isopropylbenzene	105	9.062	9.062	(1.107)	2892	0.50000	0.44(a)
68	1,1,2,2-Tetrachloroethane	83	9.332	9.332	(0.917)	1485	0.50000	0.41(aM)
$ 69	4-Bromofluorobenzene	95	9.197	9.197	(1.124)	3166	0.50000	1.31(a)
* 70	1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	162478	50.0000	
71	1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	1417	0.50000	1.50(a)
72	trans-1,4-Dichloro-2-butene	53	9.381	9.381	(1.146)	303	0.50000	0.68(aM)
73	n-Propylbenzene	91	9.411	9.411	(0.925)	3129	0.50000	0.44(a)
74	Bromobenzene	156	9.321	9.321	(0.916)	1148	0.50000	0.60(a)
75	1,3,5-Trimethylbenzene	105	9.565	9.565	(0.940)	2304	0.50000	2.10(a)
76	2-Chlorotoluene	91	9.486	9.486	(0.933)	2815	0.50000	0.59(a)
77	4-Chlorotoluene	91	9.580	9.580	(0.942)	2972	0.50000	0.55(a)
78	tert-Butylbenzene	119	9.838	9.838	(0.967)	1816	0.50000	0.42(a)
79	1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	2487	0.50000	0.48(aM)
81	sec-Butylbenzene	105	10.022	10.022	(0.985)	2503	0.50000	0.43(a)
82	p-Isopropyltoluene	119	10.149	10.149	(0.998)	2165	0.50000	2.02(a)
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	2314	0.50000	0.65(a)
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	2680	0.50000	0.17(a)
86	Benzyl Chloride	91	10.314	10.314	(1.260)	22557	0.50000	3.22(a)
87	n-Butylbenzene	91	10.494	10.494	(1.032)	1966	0.50000	1.75(a)

88 1,2-Dichlorobenzene	146	10.509	10.509 (1.033)	2385	0.50000	0.68(a)
89 1,2-Dibromo-3-Chloropropane	155	11.177	11.177 (1.099)	119	0.50000	0.73(aM)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
90	1,2,4-Trichlorobenzene	180	11.863	11.863	(1.166)	1239	0.50000	0.58(aM)
91	Hexachlorobutadiene	225	12.001	12.001	(1.180)	463	0.50000	0.49(aM)
92	Naphthalene	128	12.076	12.076	(1.187)	2273	0.50000	2.40(a)
93	1,2,3-Trichlorobenzene	180	12.275	12.275	(1.207)	1018	0.50000	0.52(aM)
146	Methyl acetate	43	2.720	2.720	(0.565)	1084	0.50000	(aM)
141	Cyclohexane	56	4.815	4.815	(1.000)	5248	0.50000	1.37(a)
147	Methylcyclohexane	55	5.947	5.947	(1.071)	2050	0.50000	0.55(a)
132	n-Butanol	56	5.835	5.835	(1.212)	741	10.0000	16.35(aM)
136	n-Hexane	57	3.346	3.346	(0.695)	702	0.50000	0.46(Ta)
148	Tert-butyl alcohol	59	2.971	2.971	(0.617)	2276	10.0000	4.43(a)
149	Isopropyl alcohol	45	2.570	2.570	(0.534)	1890	10.0000	3.08(Ta)
156	Diisopropyl ether	45	3.619	3.619	(0.752)	3700	0.50000	0.64(aM)
162	Butyl acrylate	55	8.740	8.740	(1.068)	1564	0.50000	0.53(a)
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	4384	0.50000	0.62(Ta)
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	2690	0.50000	0.57(a)
167	Ethanol	45	2.086	2.086	(0.433)	318	10.0000	(aM)
172	tert-Butyl formate	59	5.242	5.242	(1.089)	1751	1.00000	0.55(aM)
151	4-Methyl-2-pentanol	45	7.218	7.218	(1.300)	6075	10.0000	12.59
140	1,3-Butadiene	54	1.407	1.407	(0.292)	944	0.50000	0.46(a)
182	Epichlorohydrin	57	6.637	6.637	(1.195)	129	2.00000	7.01(M)
M 94	1,2-Dichloroethylene (total)	96				2240	1.00000	(a)
130	Ethyl Acetate	43	4.534	4.534	(0.942)	659	0.50000	(aM)
131	Methyl Acrylate	55	4.380	4.380	(0.910)	1242	0.50000	0.63(aM)
189	n-Butyl acetate	43	7.709	7.709	(0.942)	1281	0.50000	0.50(aM)
134	Cyclohexanone	55	9.156	9.156	(0.900)	1334	10.0000	7.91(Ta)
185	Isoprene	39	2.157	2.157	(0.448)	195	0.50000	0.56(aM)
188	Isopropyl acetate	43	5.287	5.287	(0.952)	2814	0.50000	0.60(aM)
150	Allyl alcohol	57	3.346	3.346	(0.695)	702	10.0000	9.25
200	Dimethyl Disulfide	94	6.749	6.749	(0.825)	387	0.50000	1.63(aM)
133	Ethyl Acrylate	55	5.947	5.947	(1.235)	2148	0.50000	0.57(aM)
203	2-Ethylhexyl Acrylate	55	12.046	12.046	(1.184)	1065	0.50000	1.86(a)
204	Tetrahydrothiophene	60	7.675	7.675	(0.938)	1037	0.50000	0.57(aA)
205	sec-Butyl Ether	57	7.214	7.214	(0.881)	2158	0.50000	0.61(aAM)
187	n-Amyl acetate	43	8.935	8.935	(1.092)	1387	0.50000	0.49(aM)
206	2-Chloropropene	41	1.929	1.929	(0.401)	1472	0.50000	0.60(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

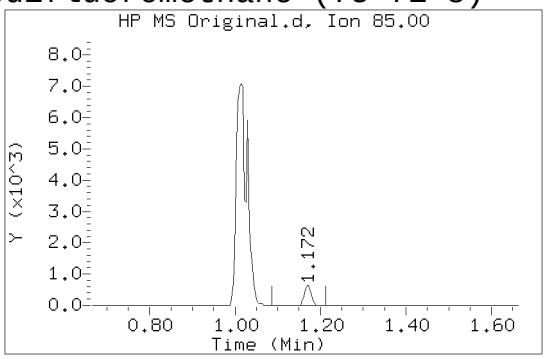
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62003.D
Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Dichlorodifluoromethane (75-71-8)

Reason Code:

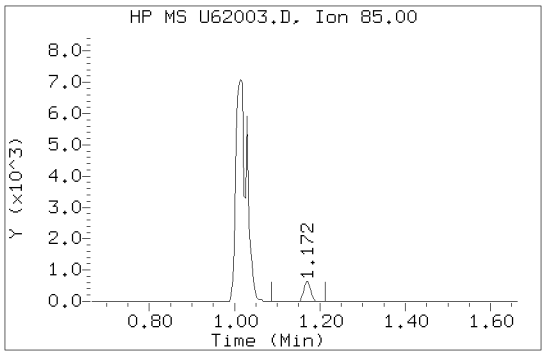
BEFORE

MASS
85
AREA
731
HEIGHT
640
29-Jun-2024
12:15
s
zaid



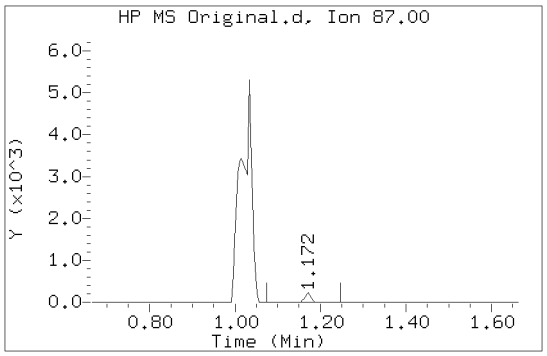
AFTER

MASS
85
AREA
731
HEIGHT
640
29-Jun-2024
12:18
s
zaid



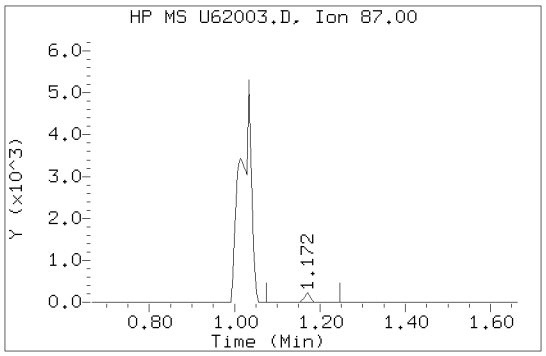
BEFORE

MASS
87
AREA
221
HEIGHT
225
29-Jun-2024
12:15
s
zaid



AFTER

MASS
87
AREA
221
HEIGHT
225
29-Jun-2024
12:18
s
zaid

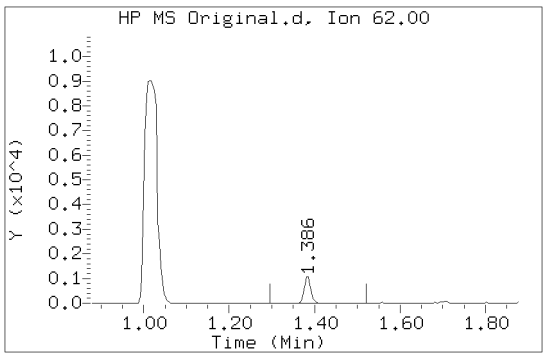


Vinyl Chloride (75-01-4)

Reason Code:

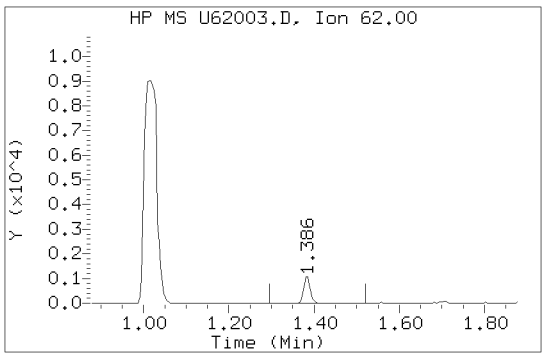
BEFORE

MASS
62
AREA
1139
HEIGHT
1063
29-Jun-2024
12:15
s
zaid



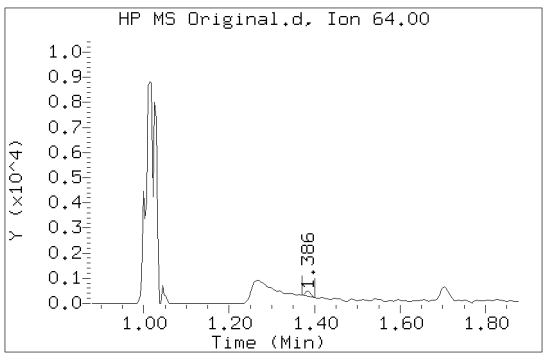
AFTER

MASS
62
AREA
1139
HEIGHT
1063
29-Jun-2024
12:18
s
zaid



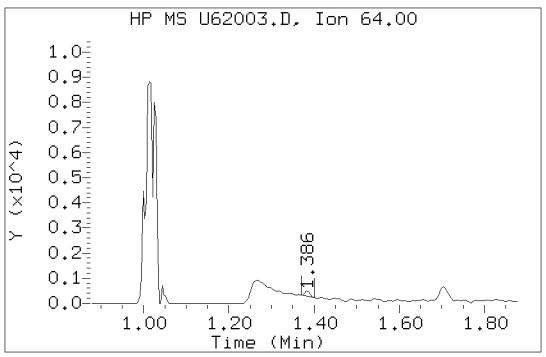
BEFORE

MASS
64
AREA
184
HEIGHT
220
29-Jun-2024
12:15
s
zaid



AFTER

MASS
64
AREA
184
HEIGHT
220
29-Jun-2024
12:18
s
zaid

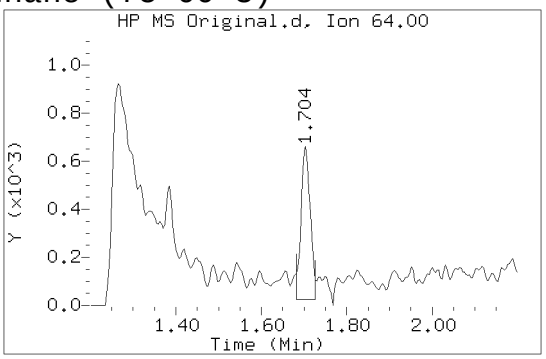


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62003.D
Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

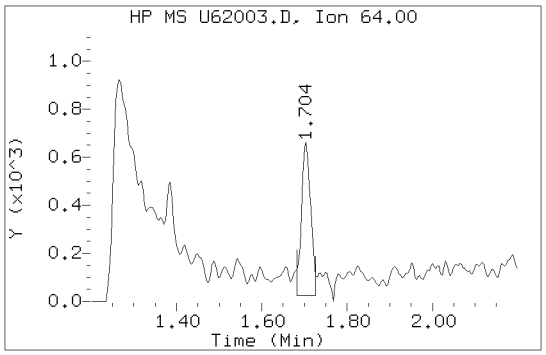
Chloroethane (75-00-3)

Reason Code:

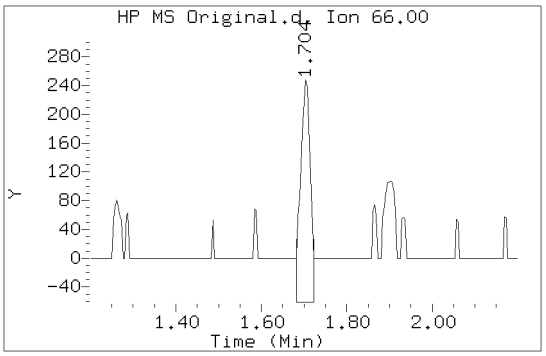
BEFORE
MASS
64
AREA
989
HEIGHT
639
29-Jun-2024
12:15
s
zaid



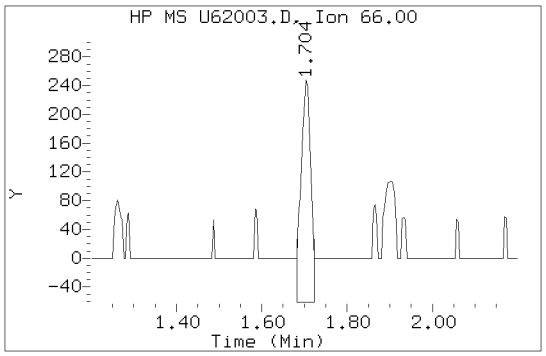
AFTER
MASS
64
AREA
989
HEIGHT
639
29-Jun-2024
12:18
s
zaid



BEFORE
MASS
66
AREA
505
HEIGHT
309
29-Jun-2024
12:15
s
zaid



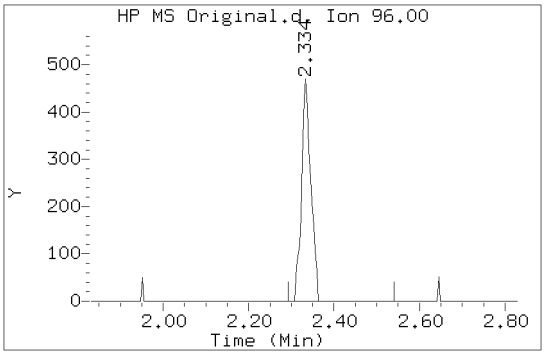
AFTER
MASS
66
AREA
505
HEIGHT
309
29-Jun-2024
12:18
s
zaid



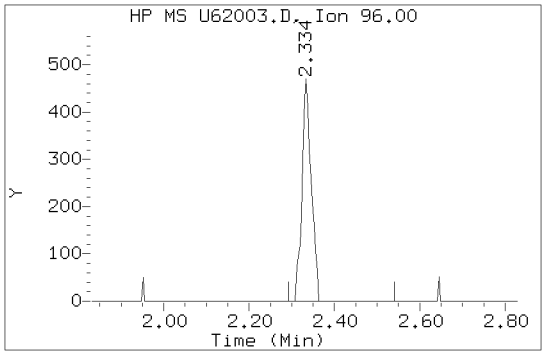
1,1-Dichloroethene (75-35-4)

Reason Code:

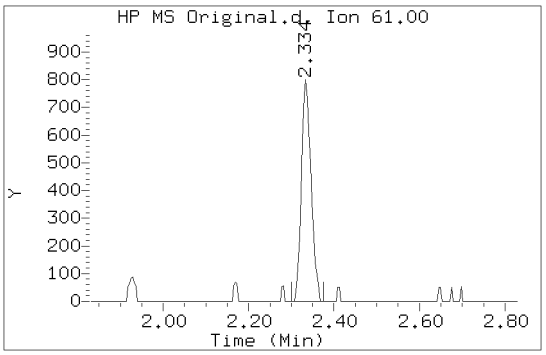
BEFORE
MASS
96
AREA
717
HEIGHT
470
29-Jun-2024
12:15
s
zaid



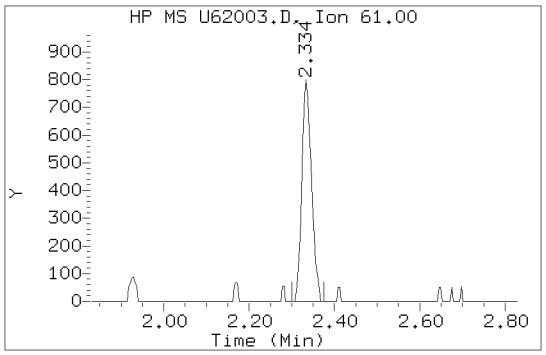
AFTER
MASS
96
AREA
717
HEIGHT
470
29-Jun-2024
12:18
s
zaid



BEFORE
MASS
61
AREA
1267
HEIGHT
800
29-Jun-2024
12:15
s
zaid



AFTER
MASS
61
AREA
1267
HEIGHT
800
29-Jun-2024
12:18
s
zaid



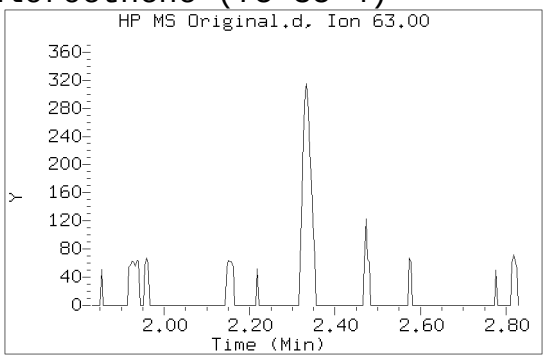
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62003.D
Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

1,1-Dichloroethene (75-35-4)

Reason Code:

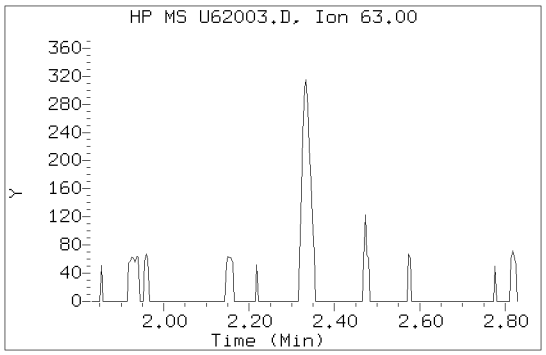
BEFORE

MASS
63
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
63
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid

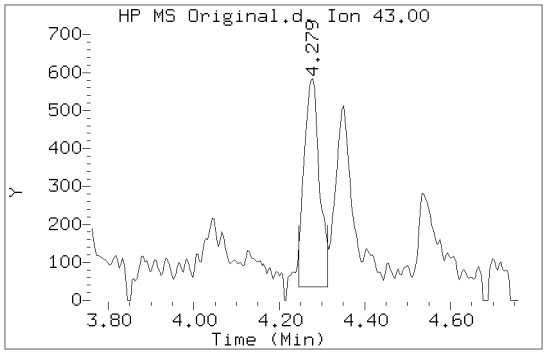


2-Butanone (78-93-3)

Reason Code:

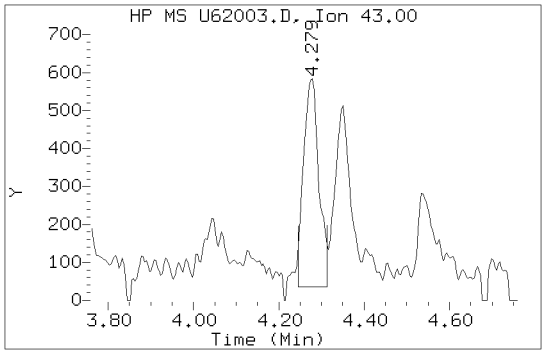
BEFORE

MASS
43
AREA
1392
HEIGHT
548
29-Jun-2024
12:15
s
zaid



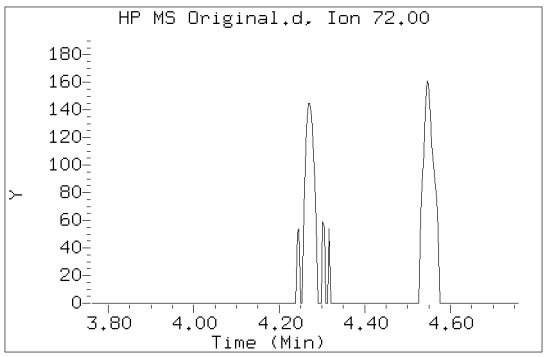
AFTER

MASS
43
AREA
1392
HEIGHT
548
29-Jun-2024
12:18
s
zaid



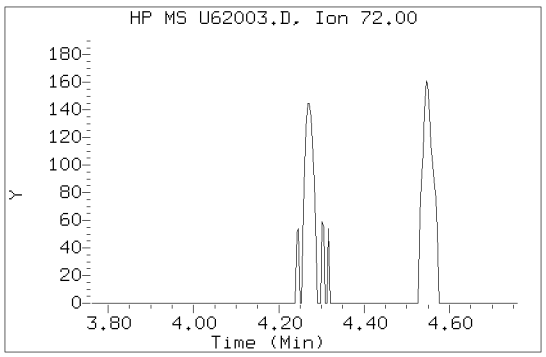
BEFORE

MASS
72
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
72
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid

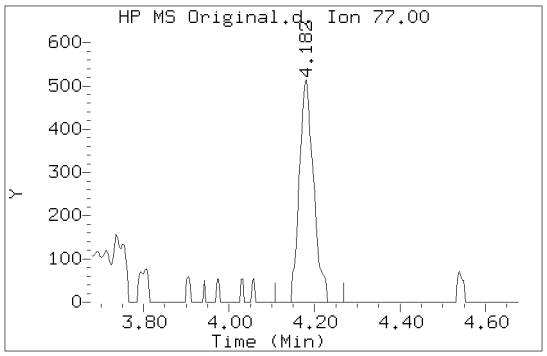


2,2-Dichloropropane (594-20-7)

Reason Code:

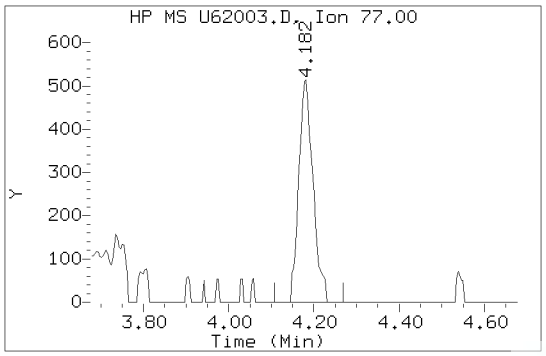
BEFORE

MASS
77
AREA
1204
HEIGHT
514
29-Jun-2024
12:15
s
zaid



AFTER

MASS
77
AREA
1204
HEIGHT
514
29-Jun-2024
12:18
s
zaid



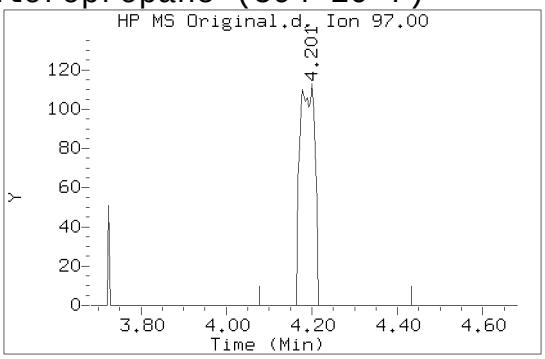
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62003.D
Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

2,2-Dichloropropane (594-20-7)

Reason Code:

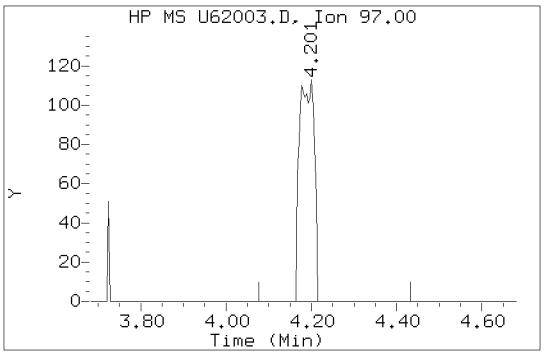
BEFORE

MASS
97
AREA
274
HEIGHT
113
29-Jun-2024
12:15
s
zaid



AFTER

MASS
97
AREA
274
HEIGHT
113
29-Jun-2024
12:18
s
zaid

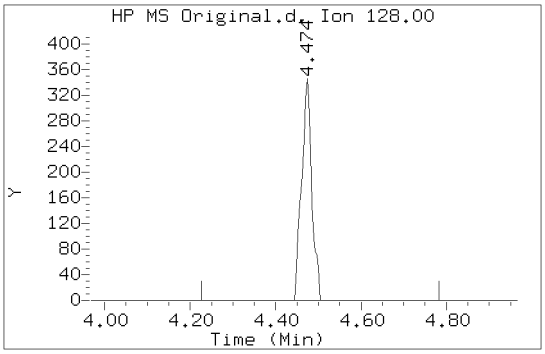


Bromochloromethane (74-97-5)

Reason Code:

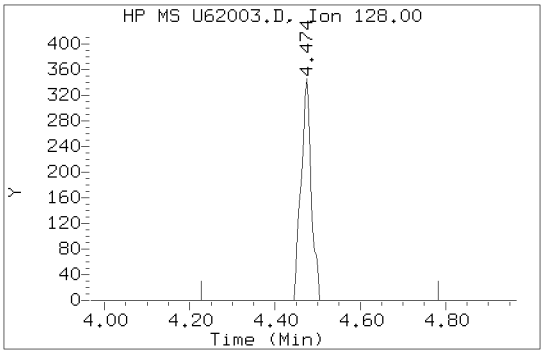
BEFORE

MASS
128
AREA
578
HEIGHT
346
29-Jun-2024
12:15
s
zaid



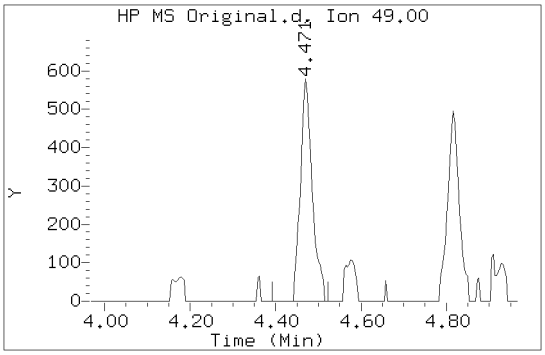
AFTER

MASS
128
AREA
578
HEIGHT
346
29-Jun-2024
12:18
s
zaid



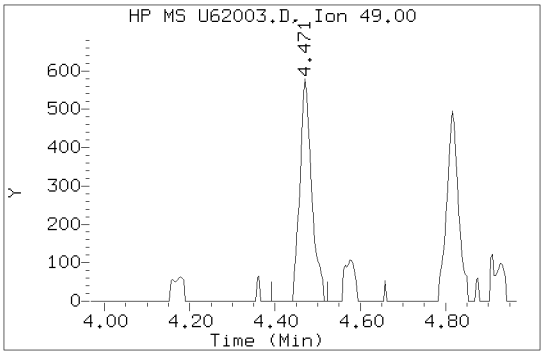
BEFORE

MASS
49
AREA
1131
HEIGHT
579
29-Jun-2024
12:15
s
zaid



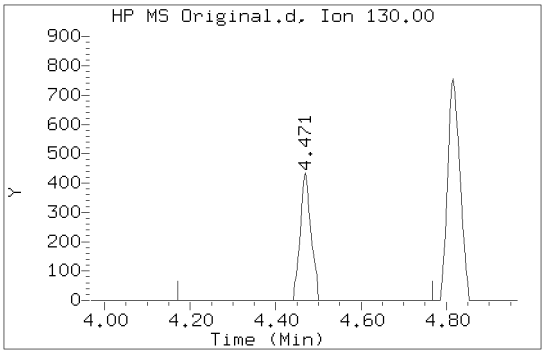
AFTER

MASS
49
AREA
1131
HEIGHT
579
29-Jun-2024
12:18
s
zaid



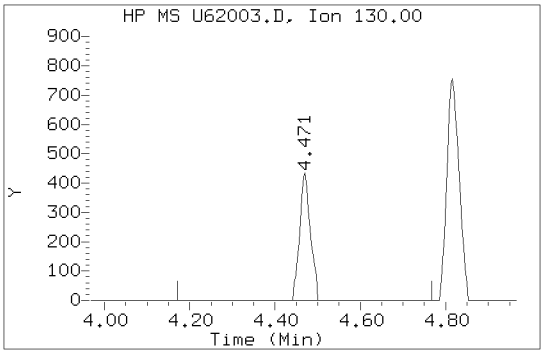
BEFORE

MASS
130
AREA
775
HEIGHT
434
29-Jun-2024
12:15
s
zaid



AFTER

MASS
130
AREA
775
HEIGHT
434
29-Jun-2024
12:18
s
zaid



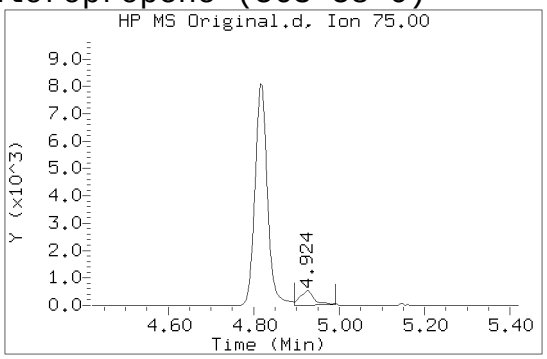
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62003.D
Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

1,1-Dichloropropene (563-58-6)

Reason Code:

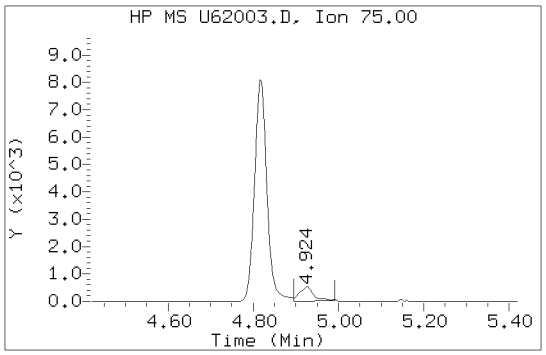
BEFORE

MASS
75
AREA
1295
HEIGHT
533
29-Jun-2024
12:15
s
zaid



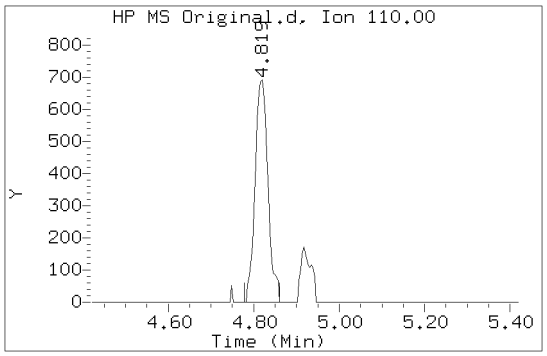
AFTER

MASS
75
AREA
1295
HEIGHT
533
29-Jun-2024
12:18
s
zaid



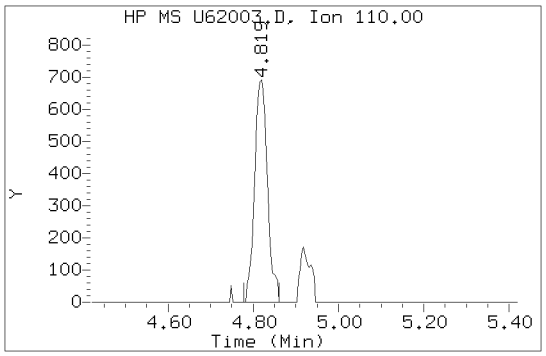
BEFORE

MASS
110
AREA
1447
HEIGHT
691
29-Jun-2024
12:15
s
zaid



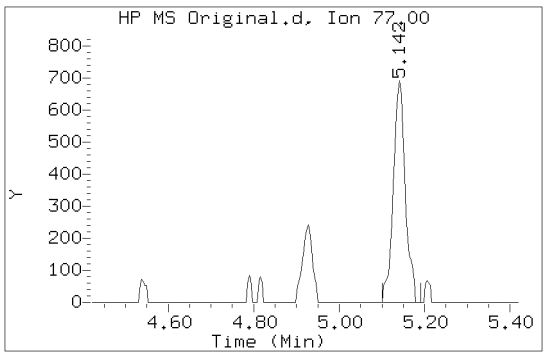
AFTER

MASS
110
AREA
1447
HEIGHT
691
29-Jun-2024
12:18
s
zaid



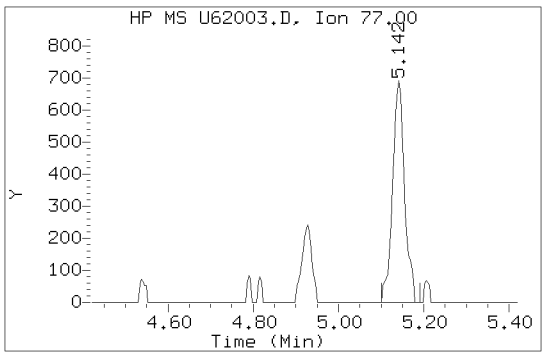
BEFORE

MASS
77
AREA
1342
HEIGHT
691
29-Jun-2024
12:15
s
zaid



AFTER

MASS
77
AREA
1342
HEIGHT
691
29-Jun-2024
12:18
s
zaid

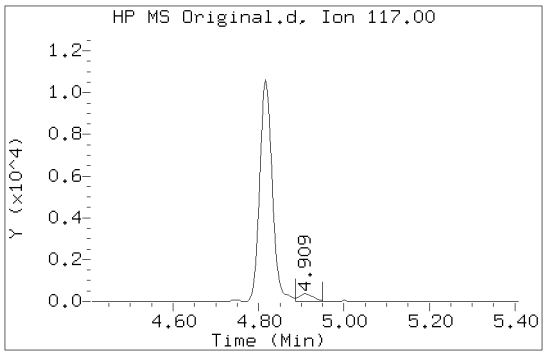


Carbon Tetrachloride (56-23-5)

Reason Code:

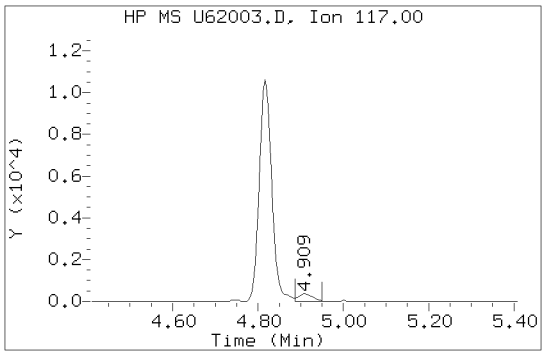
BEFORE

MASS
117
AREA
853
HEIGHT
364
29-Jun-2024
12:15
s
zaid



AFTER

MASS
117
AREA
853
HEIGHT
364
29-Jun-2024
12:18
s
zaid



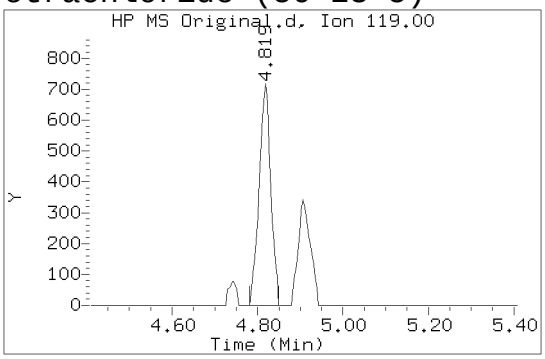
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62003.D
Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Carbon Tetrachloride (56-23-5)

Reason Code:

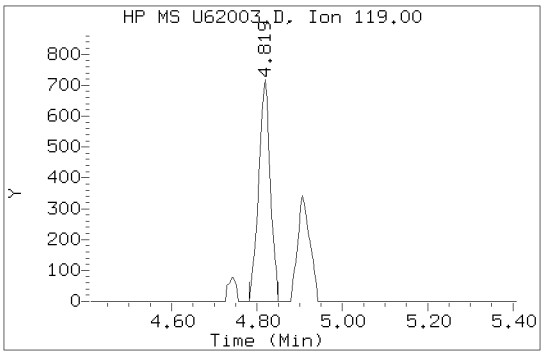
BEFORE

MASS
119
AREA
1353
HEIGHT
718
29-Jun-2024
12:15
s
zaid



AFTER

MASS
119
AREA
1353
HEIGHT
718
29-Jun-2024
12:18
s
zaid

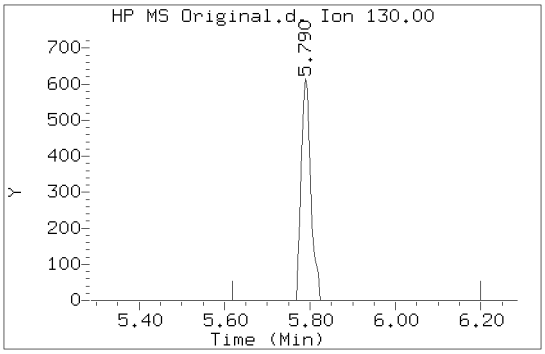


Trichloroethene (79-01-6)

Reason Code:

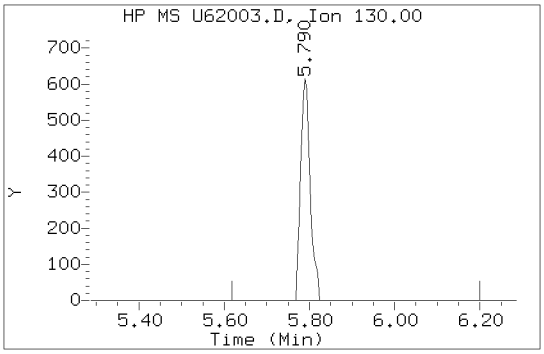
BEFORE

MASS
130
AREA
987
HEIGHT
615
29-Jun-2024
12:15
s
zaid



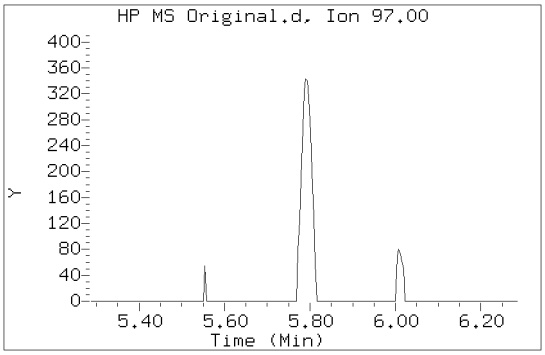
AFTER

MASS
130
AREA
987
HEIGHT
615
29-Jun-2024
12:18
s
zaid



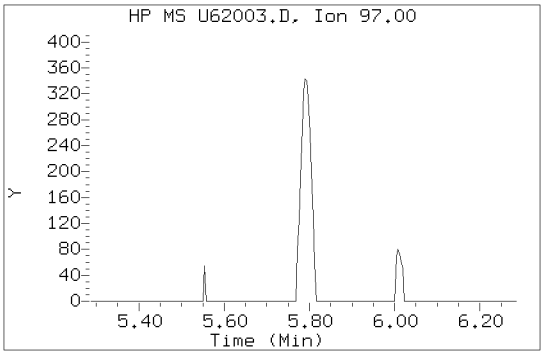
BEFORE

MASS
97
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



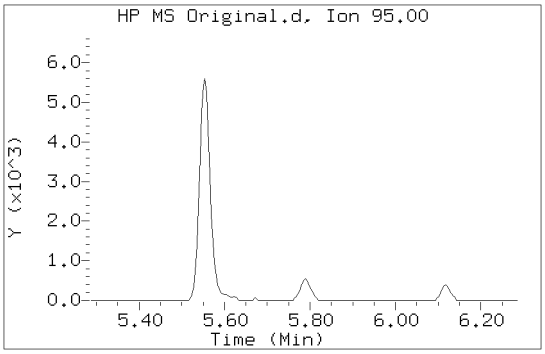
AFTER

MASS
97
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



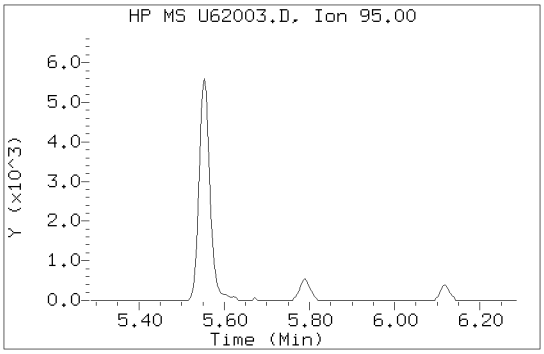
BEFORE

MASS
95
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
95
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



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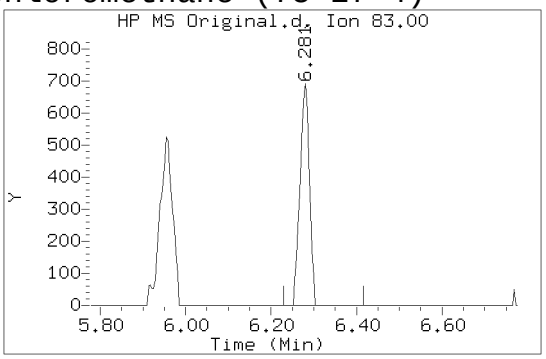
Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

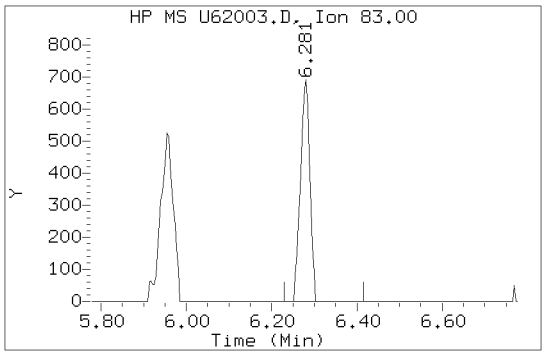
Bromodichloromethane (75-27-4)

Reason Code:

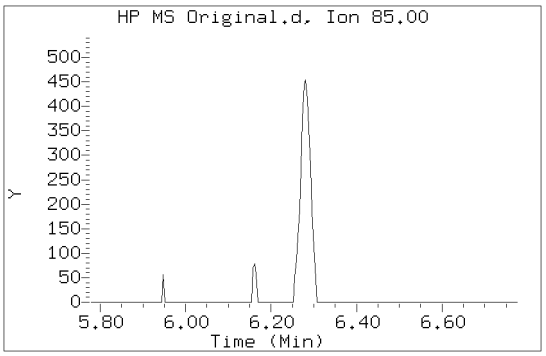
BEFORE
MASS
83
AREA
1081
HEIGHT
691
29-Jun-2024
12:15
s
zaid



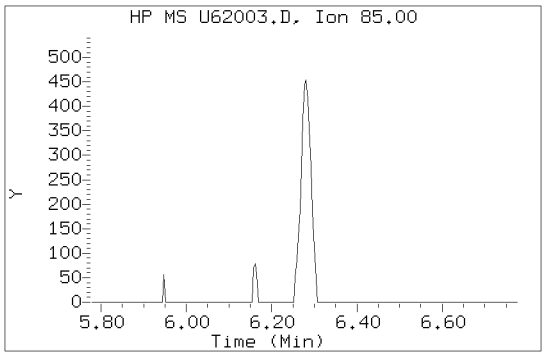
AFTER
MASS
83
AREA
1081
HEIGHT
691
29-Jun-2024
12:18
s
zaid



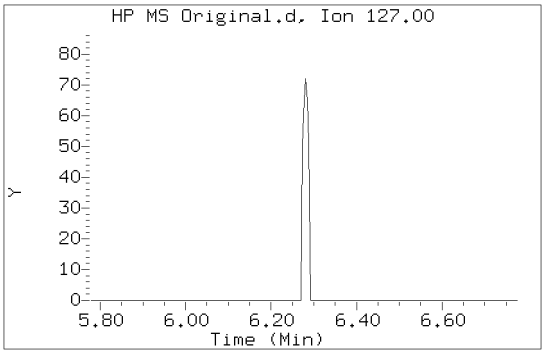
BEFORE
MASS
85
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



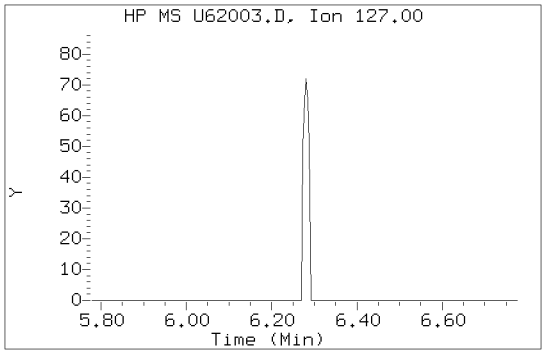
AFTER
MASS
85
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



BEFORE
MASS
127
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



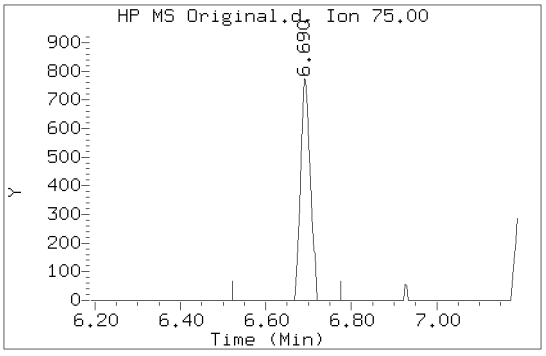
AFTER
MASS
127
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



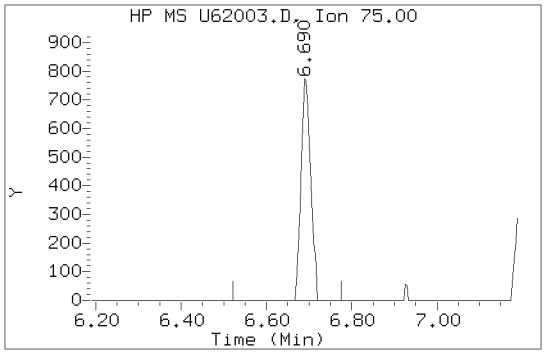
cis-1,3-Dichloropropene (10061-01-5)

Reason Code:

BEFORE
MASS
75
AREA
1255
HEIGHT
774
29-Jun-2024
12:15
s
zaid



AFTER
MASS
75
AREA
1255
HEIGHT
774
29-Jun-2024
12:18
s
zaid



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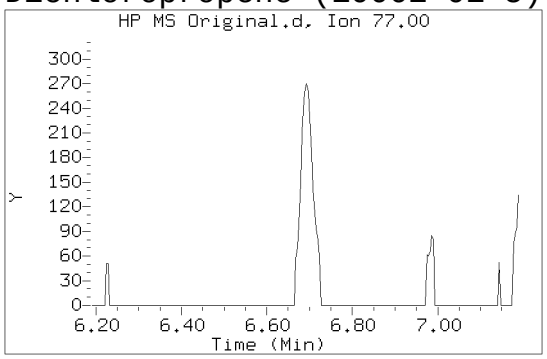
Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

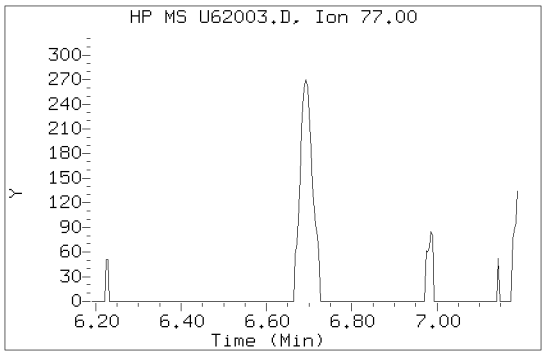
cis-1,3-Dichloropropene (10061-01-5)

Reason Code:

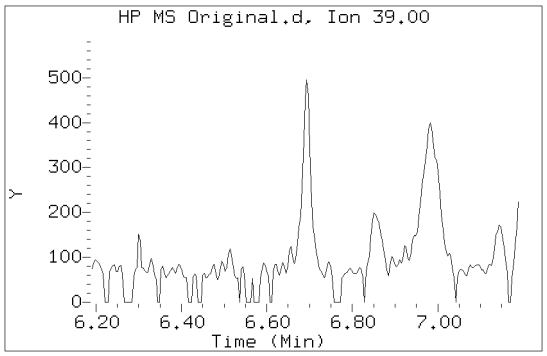
BEFORE
MASS
77
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



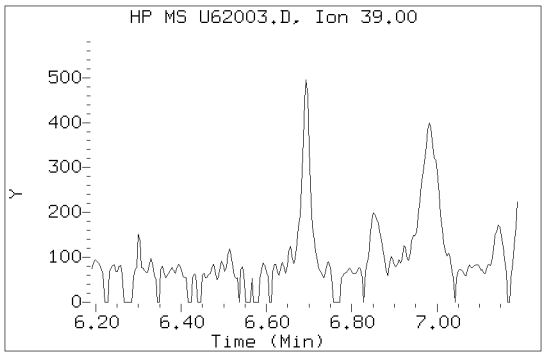
AFTER
MASS
77
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



BEFORE
MASS
39
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



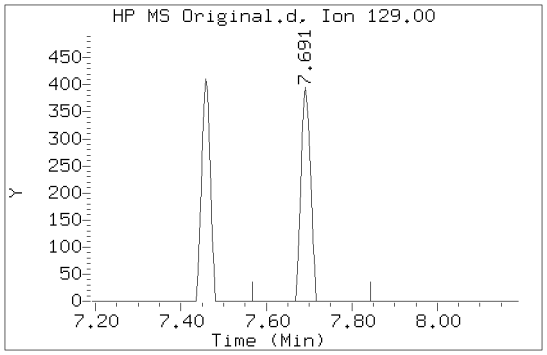
AFTER
MASS
39
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



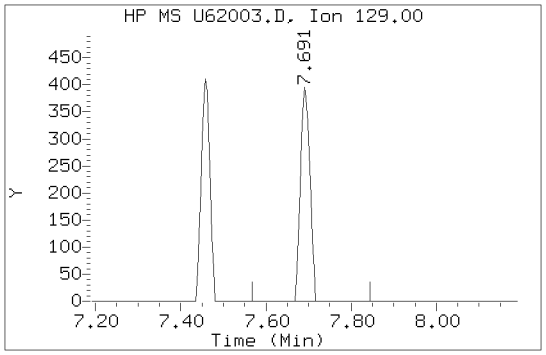
Dibromochloromethane (124-48-1)

Reason Code:

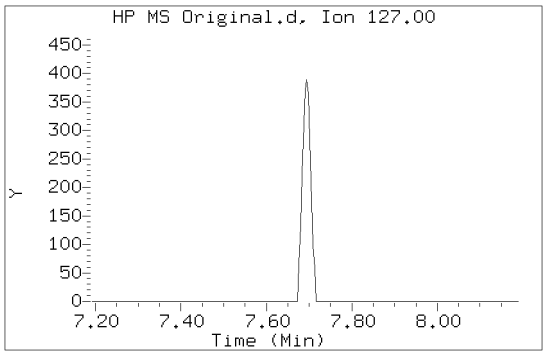
BEFORE
MASS
129
AREA
629
HEIGHT
396
29-Jun-2024
12:15
s
zaid



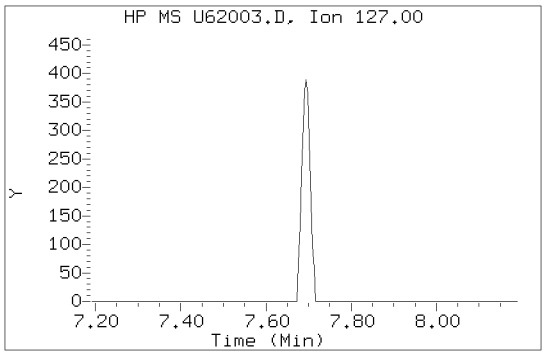
AFTER
MASS
129
AREA
629
HEIGHT
396
29-Jun-2024
12:18
s
zaid



BEFORE
MASS
127
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER
MASS
127
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



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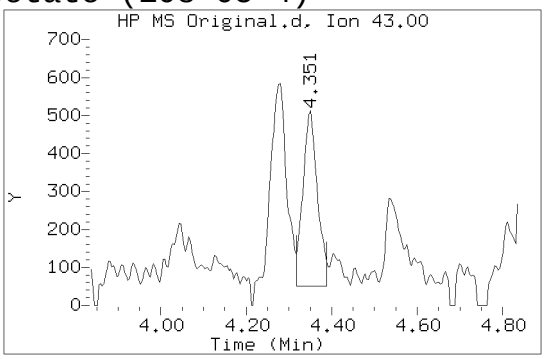
Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Vinyl Acetate (108-05-4)

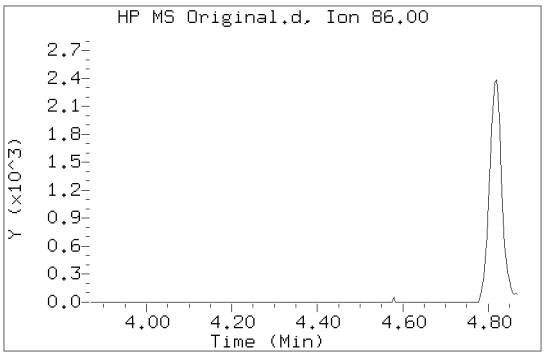
BEFORE

MASS
43
AREA
1114
HEIGHT
462
29-Jun-2024
12:15
s
zaid



BEFORE

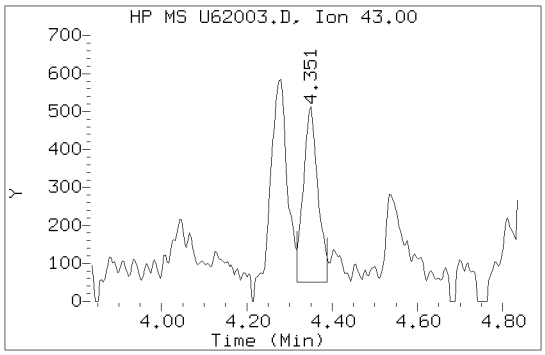
MASS
86
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



Reason Code:

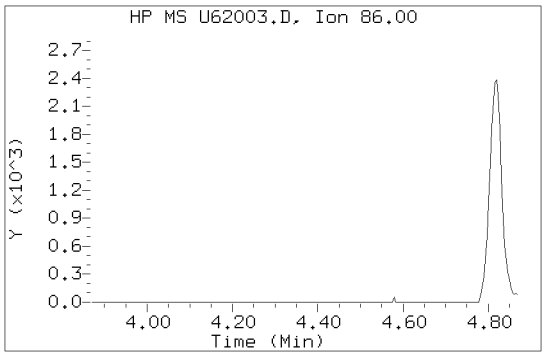
AFTER

MASS
43
AREA
1114
HEIGHT
462
29-Jun-2024
12:18
s
zaid



AFTER

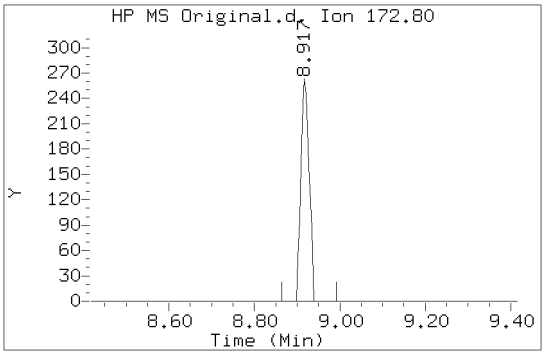
MASS
86
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



Bromoform (75-25-2)

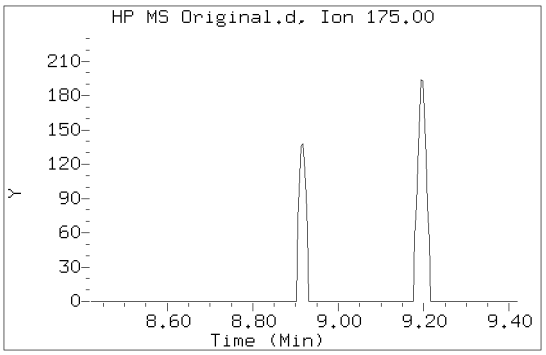
BEFORE

MASS
172.8
AREA
363
HEIGHT
263
29-Jun-2024
12:15
s
zaid



BEFORE

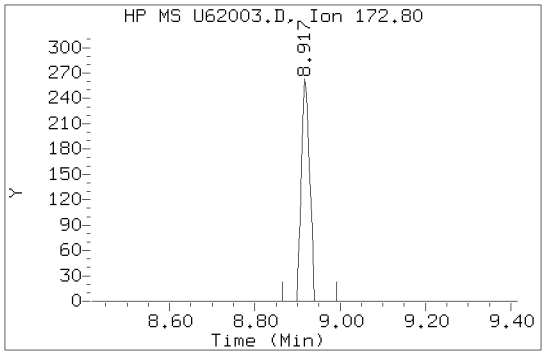
MASS
175
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



Reason Code:

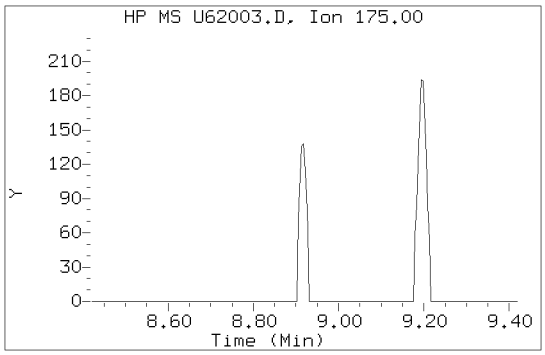
AFTER

MASS
172.8
AREA
363
HEIGHT
263
29-Jun-2024
12:18
s
zaid



AFTER

MASS
175
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



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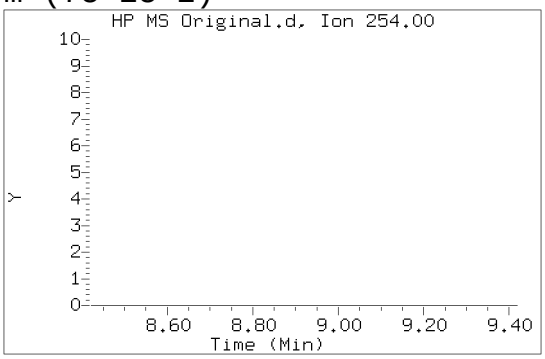
Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Bromoform (75-25-2)

Reason Code:

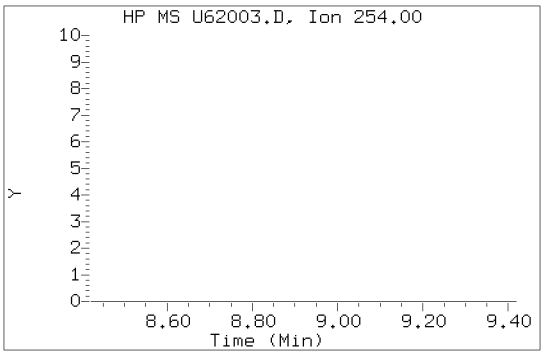
BEFORE

MASS
254
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
254
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid

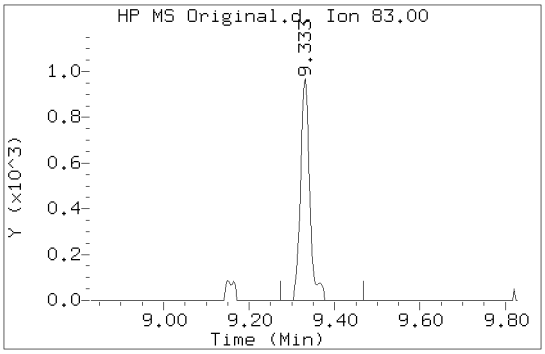


1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

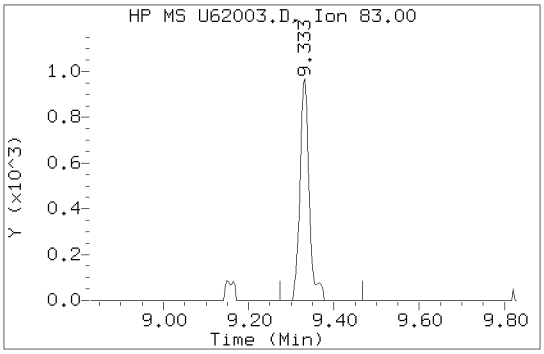
BEFORE

MASS
83
AREA
1485
HEIGHT
969
29-Jun-2024
12:15
s
zaid



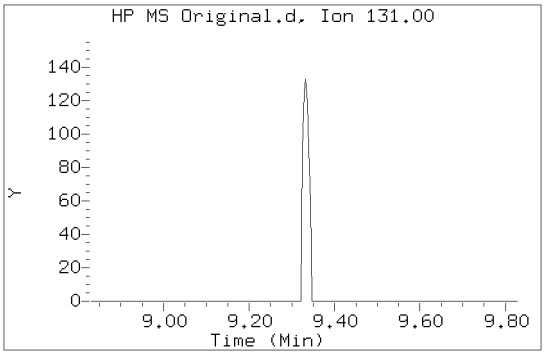
AFTER

MASS
83
AREA
1485
HEIGHT
969
29-Jun-2024
12:18
s
zaid



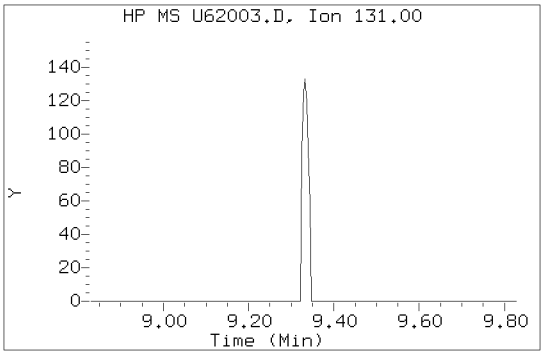
BEFORE

MASS
131
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



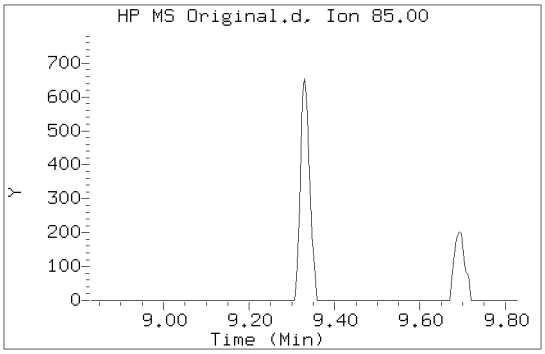
AFTER

MASS
131
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



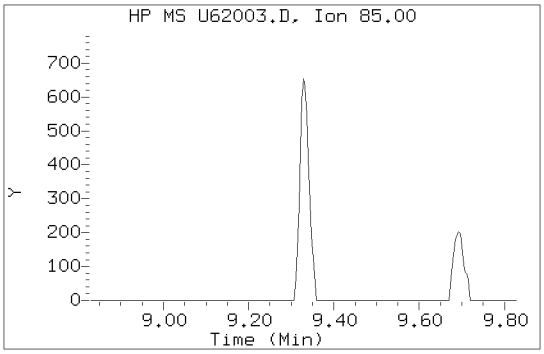
BEFORE

MASS
85
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
85
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



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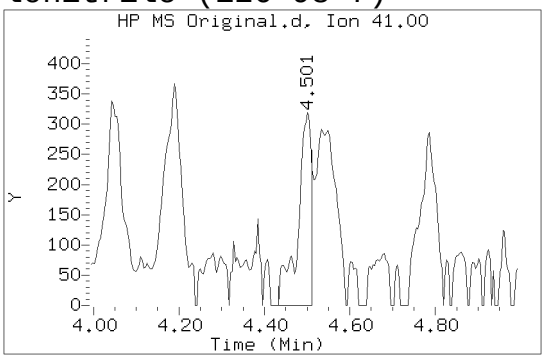
Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Methacrylonitrile (126-98-7)

Reason Code:

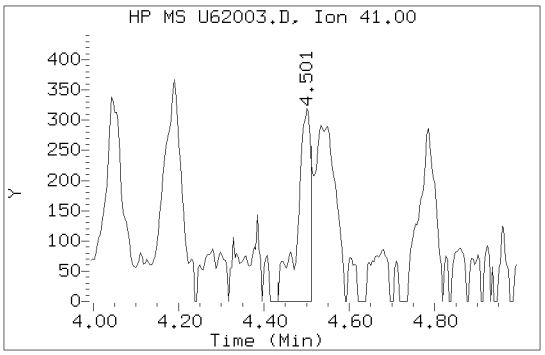
BEFORE

MASS
41
AREA
715
HEIGHT
319
29-Jun-2024
12:15
s
zaid



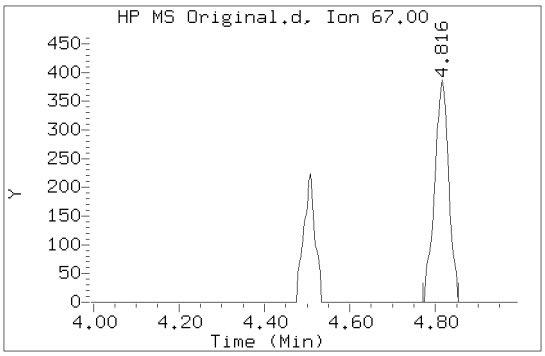
AFTER

MASS
41
AREA
715
HEIGHT
319
29-Jun-2024
12:18
s
zaid



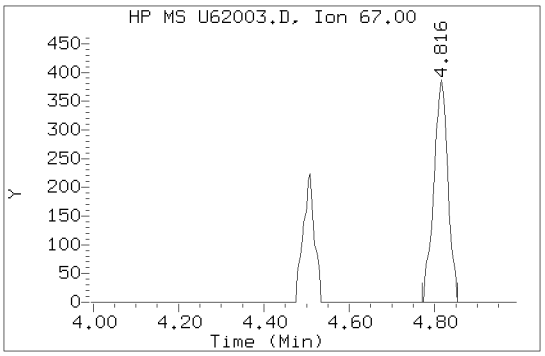
BEFORE

MASS
67
AREA
885
HEIGHT
387
29-Jun-2024
12:15
s
zaid



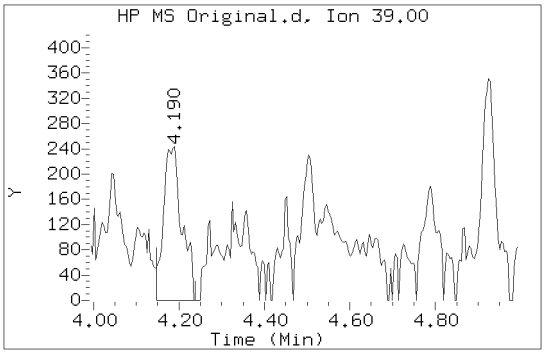
AFTER

MASS
67
AREA
885
HEIGHT
387
29-Jun-2024
12:18
s
zaid



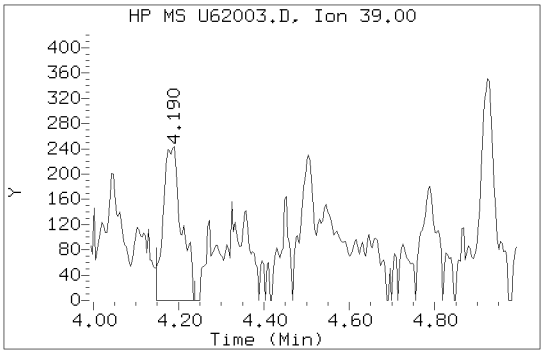
BEFORE

MASS
39
AREA
729
HEIGHT
244
29-Jun-2024
12:15
s
zaid



AFTER

MASS
39
AREA
729
HEIGHT
244
29-Jun-2024
12:18
s
zaid

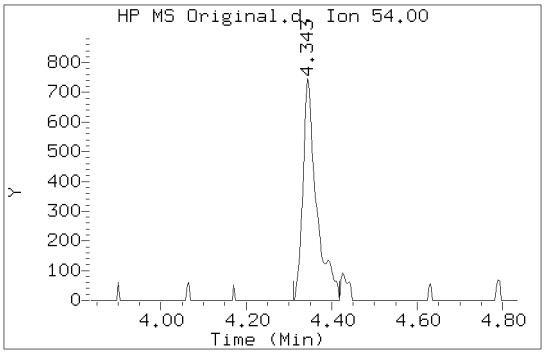


Propionitrile (107-12-0)

Reason Code:

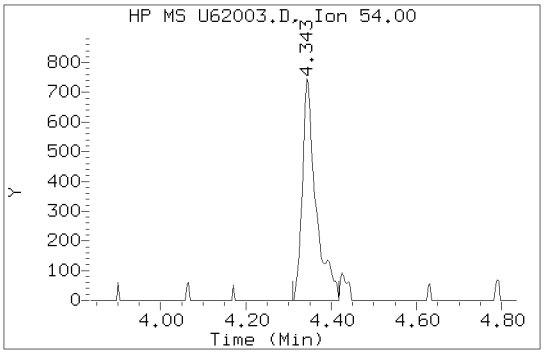
BEFORE

MASS
54
AREA
1664
HEIGHT
746
29-Jun-2024
12:15
s
zaid



AFTER

MASS
54
AREA
1664
HEIGHT
746
29-Jun-2024
12:18
s
zaid



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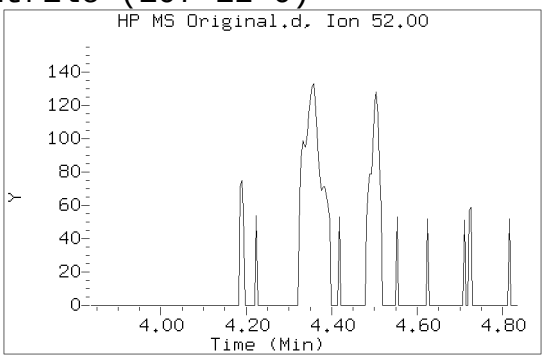
Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Propionitrile (107-12-0)

Reason Code:

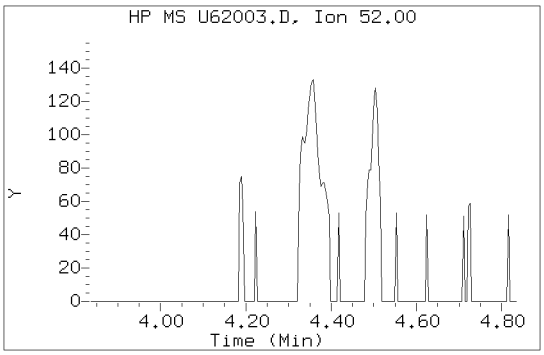
BEFORE

MASS
52
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



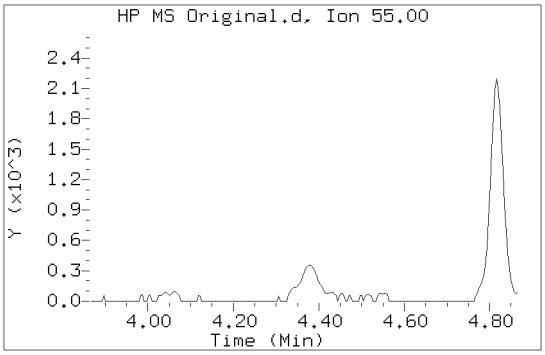
AFTER

MASS
52
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



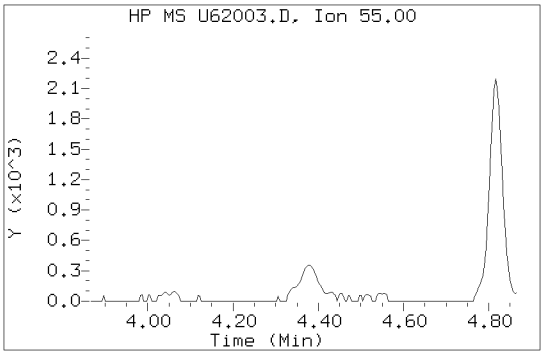
BEFORE

MASS
55
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
55
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid

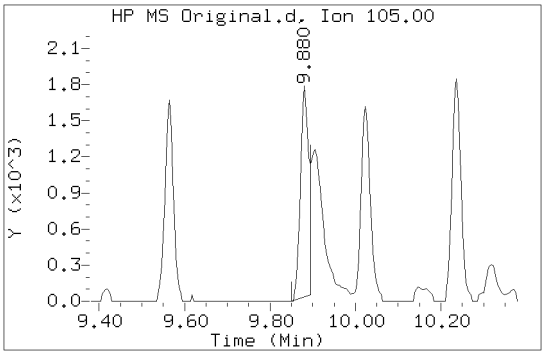


1,2,4-Trimethylbenzene (95-63-6)

Reason Code:

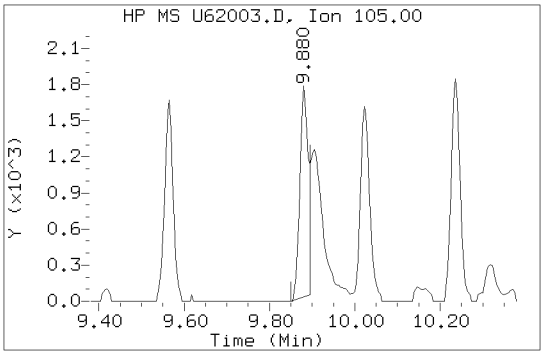
BEFORE

MASS
105
AREA
2487
HEIGHT
1755
29-Jun-2024
12:15
s
zaid



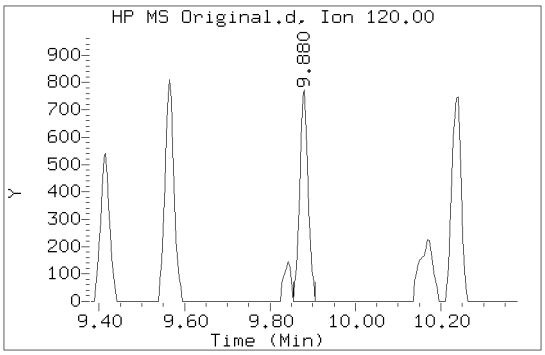
AFTER

MASS
105
AREA
2487
HEIGHT
1755
29-Jun-2024
12:18
s
zaid



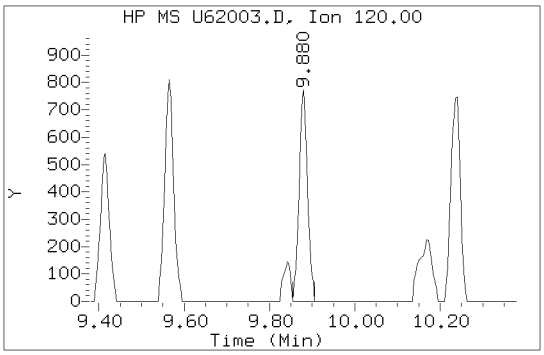
BEFORE

MASS
120
AREA
1086
HEIGHT
773
29-Jun-2024
12:15
s
zaid



AFTER

MASS
120
AREA
1086
HEIGHT
773
29-Jun-2024
12:18
s
zaid



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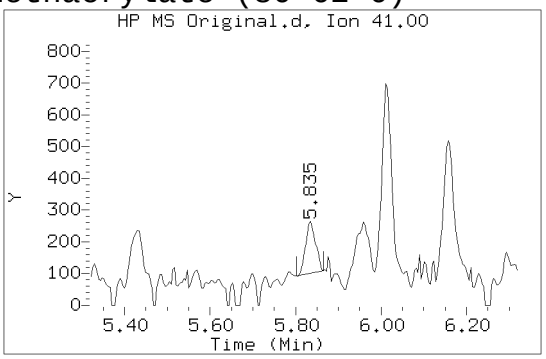
Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

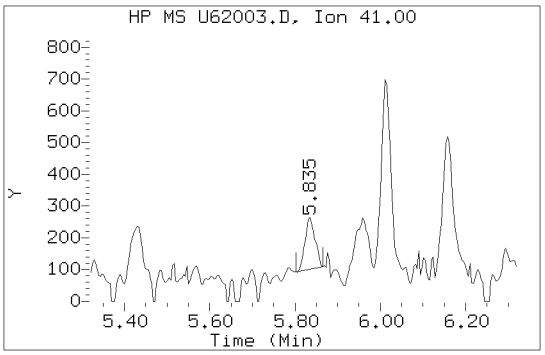
Methyl Methacrylate (80-62-6)

Reason Code:

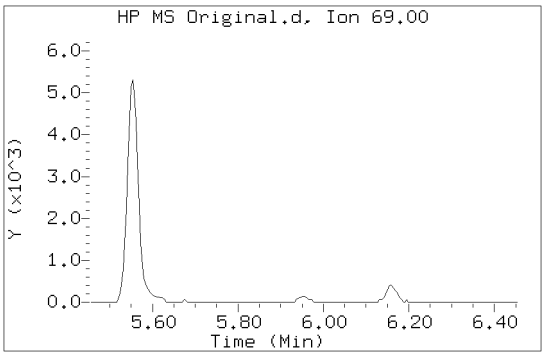
BEFORE
MASS
41
AREA
269
HEIGHT
164
29-Jun-2024
12:15
s
zaid



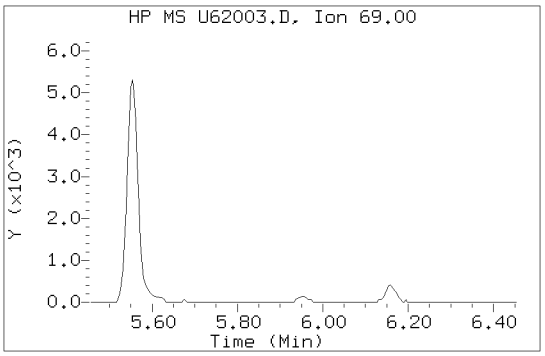
AFTER
MASS
41
AREA
269
HEIGHT
164
29-Jun-2024
12:18
s
zaid



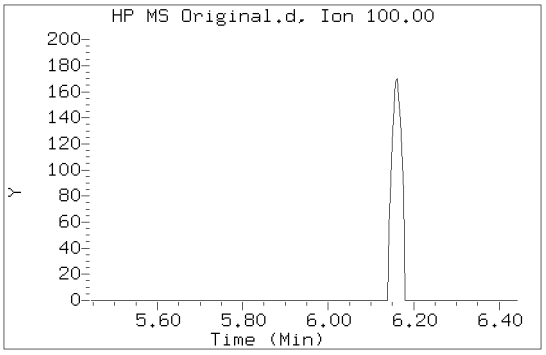
BEFORE
MASS
69
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



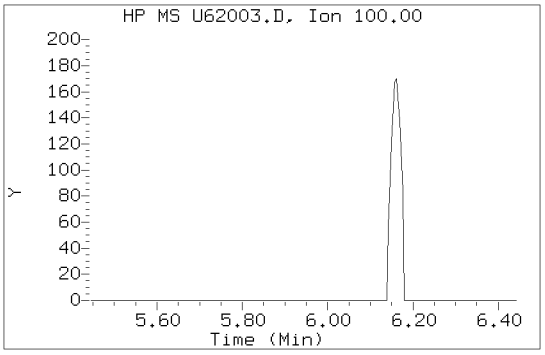
AFTER
MASS
69
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



BEFORE
MASS
100
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



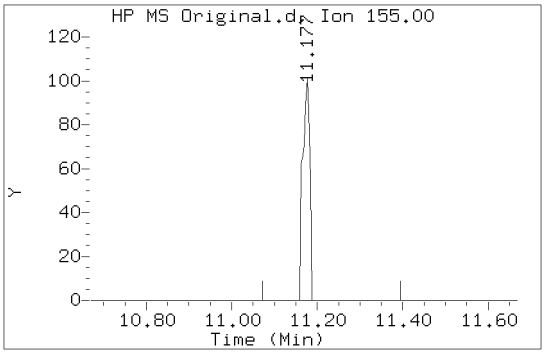
AFTER
MASS
100
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



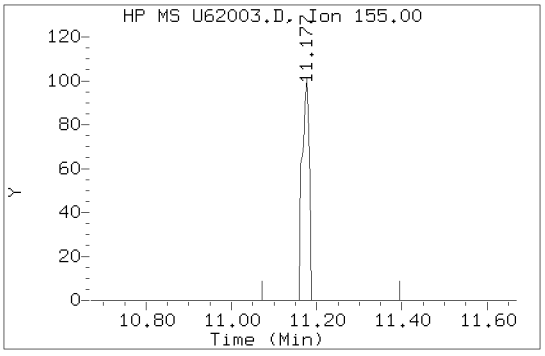
1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

BEFORE
MASS
155
AREA
119
HEIGHT
101
29-Jun-2024
12:15
s
zaid



AFTER
MASS
155
AREA
119
HEIGHT
101
29-Jun-2024
12:18
s
zaid

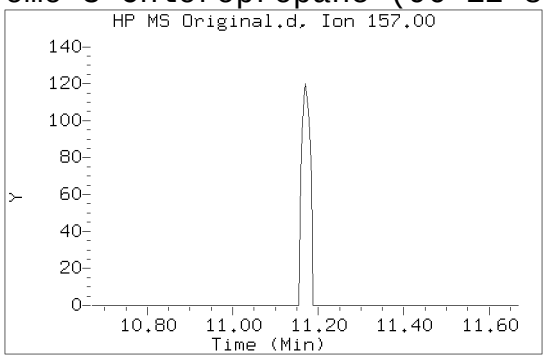


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62003.D
Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

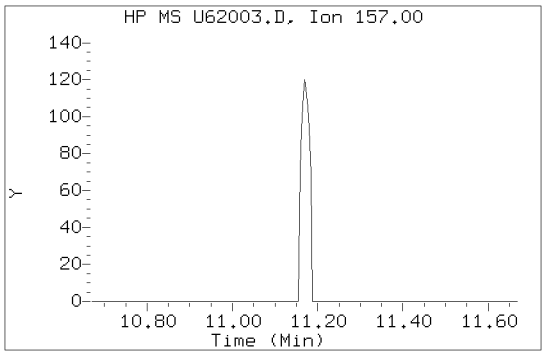
1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

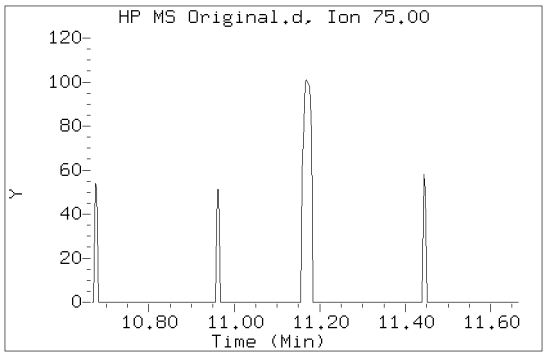
BEFORE
MASS
157
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



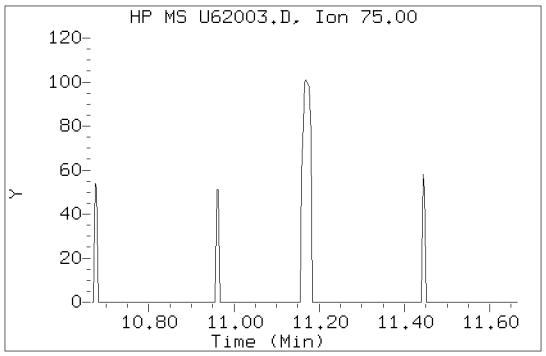
AFTER
MASS
157
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



BEFORE
MASS
75
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



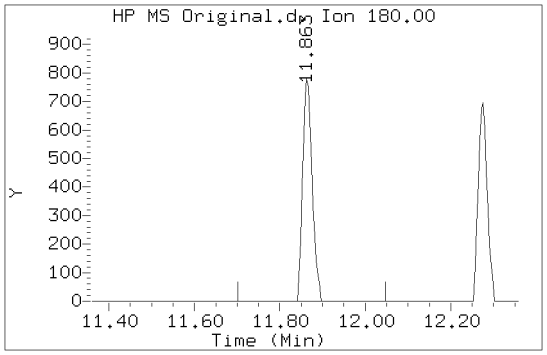
AFTER
MASS
75
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



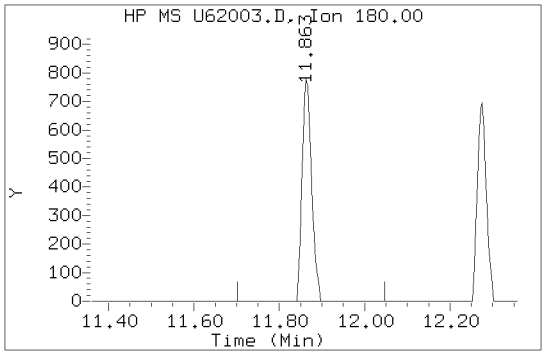
1,2,4-Trichlorobenzene (120-82-1)

Reason Code:

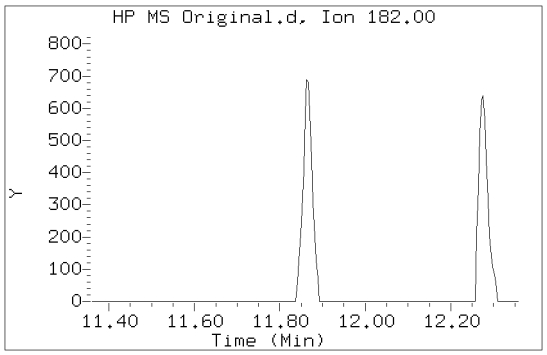
BEFORE
MASS
180
AREA
1239
HEIGHT
779
29-Jun-2024
12:15
s
zaid



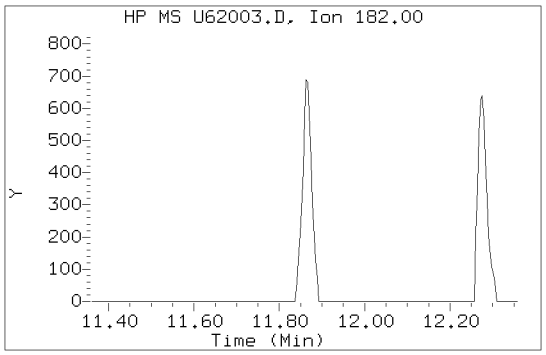
AFTER
MASS
180
AREA
1239
HEIGHT
779
29-Jun-2024
12:18
s
zaid



BEFORE
MASS
182
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER
MASS
182
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



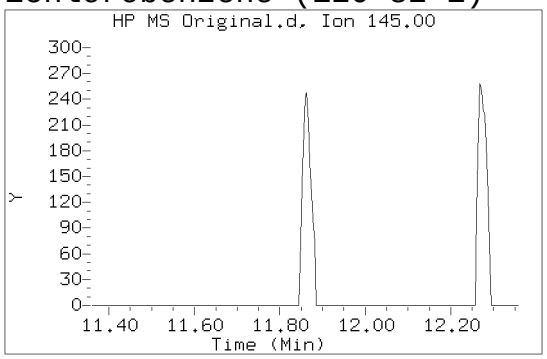
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62003.D
Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

1,2,4-Trichlorobenzene (120-82-1)

Reason Code:

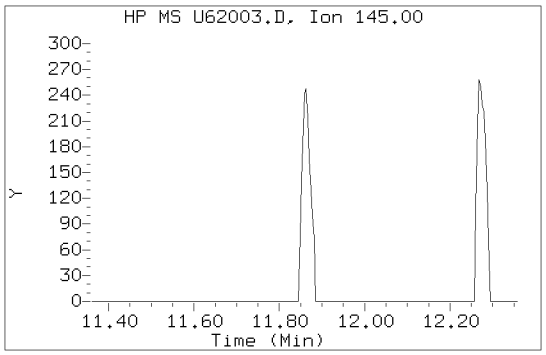
BEFORE

MASS
145
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
145
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid

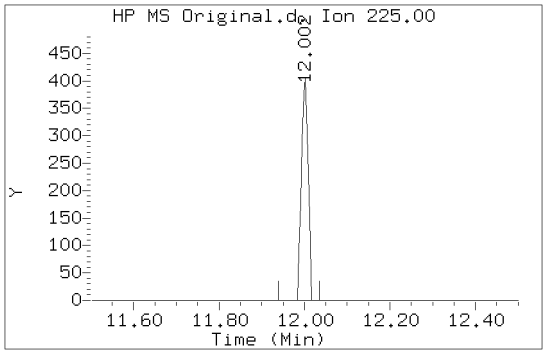


Hexachlorobutadiene (87-68-3)

Reason Code:

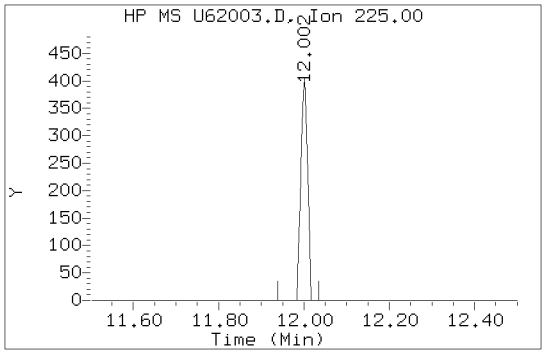
BEFORE

MASS
225
AREA
463
HEIGHT
404
29-Jun-2024
12:15
s
zaid



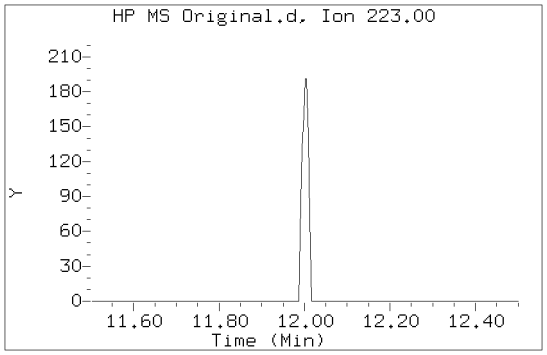
AFTER

MASS
225
AREA
463
HEIGHT
404
29-Jun-2024
12:18
s
zaid



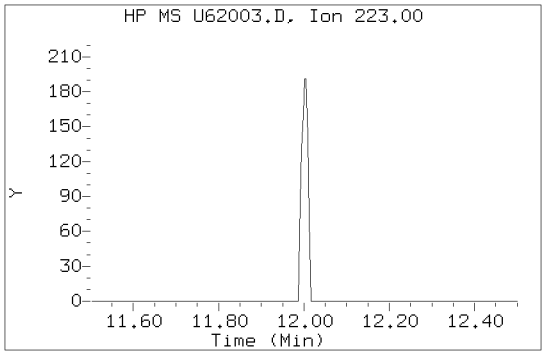
BEFORE

MASS
223
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



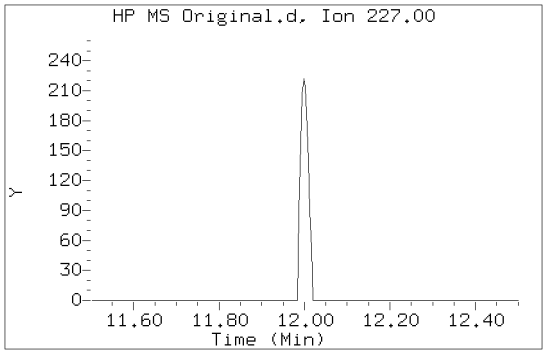
AFTER

MASS
223
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



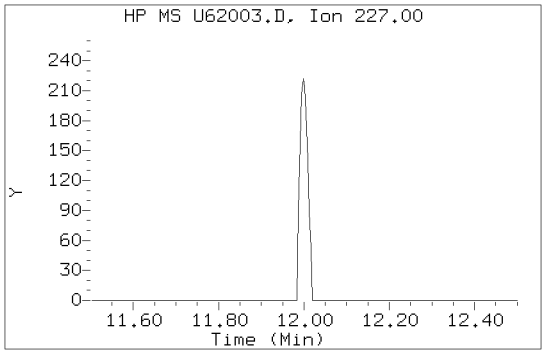
BEFORE

MASS
227
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
227
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



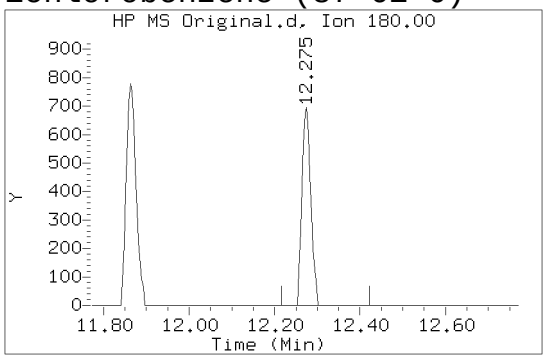
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62003.D
Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

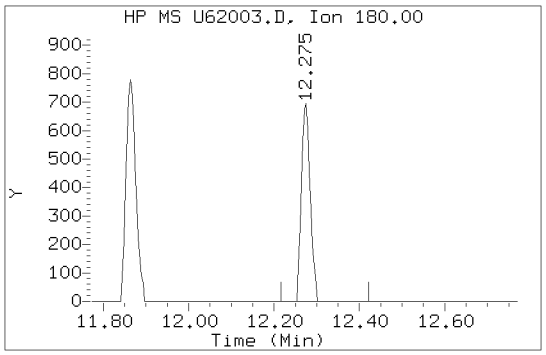
BEFORE

MASS
180
AREA
1018
HEIGHT
697
29-Jun-2024
12:15
s
zaid



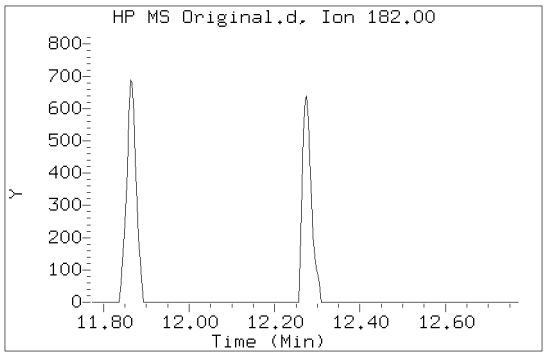
AFTER

MASS
180
AREA
1018
HEIGHT
697
29-Jun-2024
12:18
s
zaid



BEFORE

MASS
182
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
182
AREA
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HEIGHT
0
29-Jun-2024
12:18
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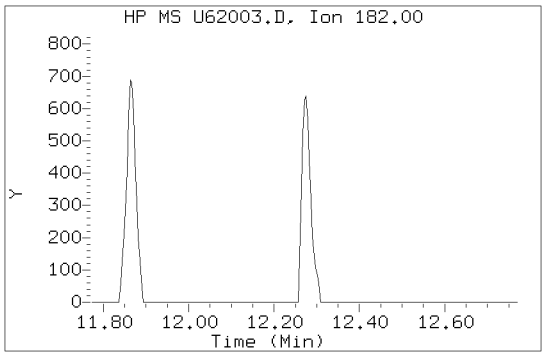
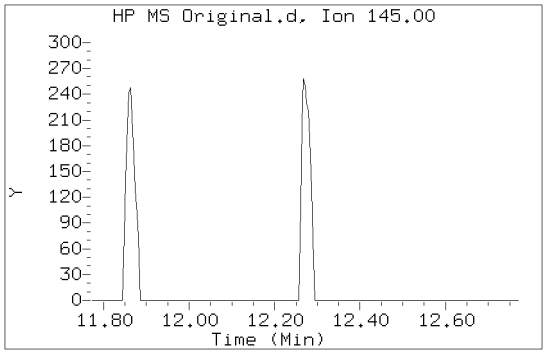
zaid



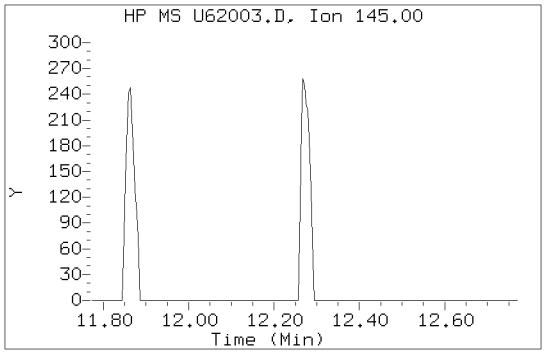
BEFORE

MASS
145
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
145
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid

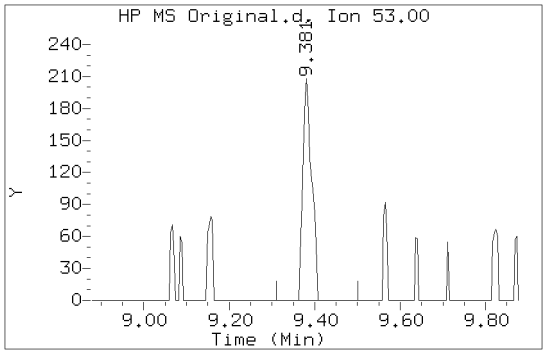


trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

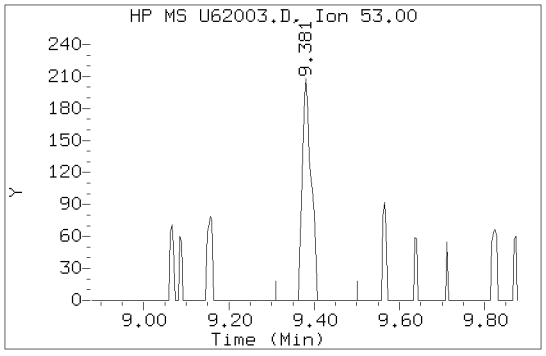
BEFORE

MASS
53
AREA
303
HEIGHT
208
29-Jun-2024
12:15
s
zaid



AFTER

MASS
53
AREA
303
HEIGHT
208
29-Jun-2024
12:18
s
zaid

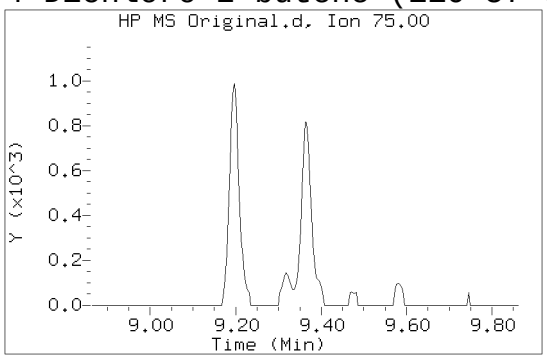


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62003.D
Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

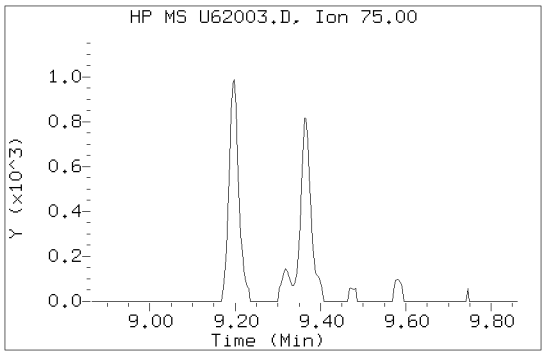
trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

BEFORE
MASS
75
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



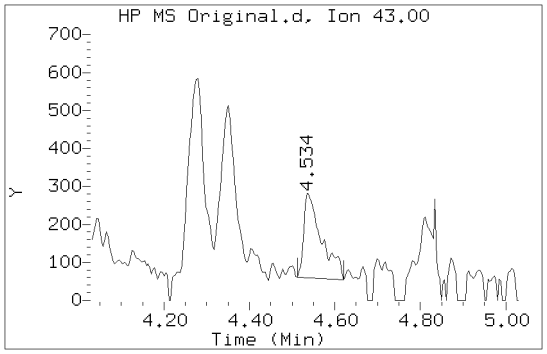
AFTER
MASS
75
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



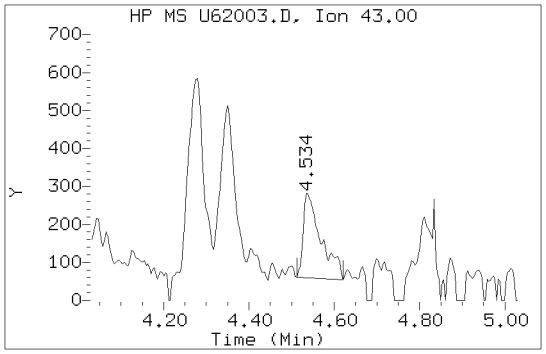
Ethyl Acetate (141-78-6)

Reason Code:

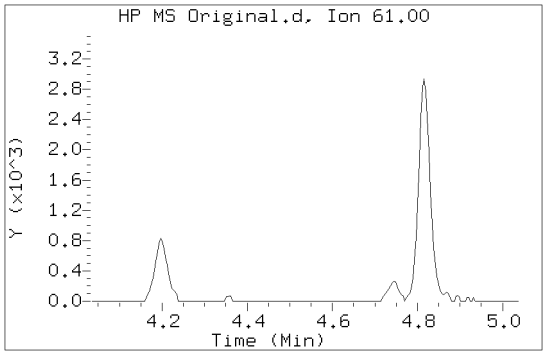
BEFORE
MASS
43
AREA
659
HEIGHT
223
29-Jun-2024
12:15
s
zaid



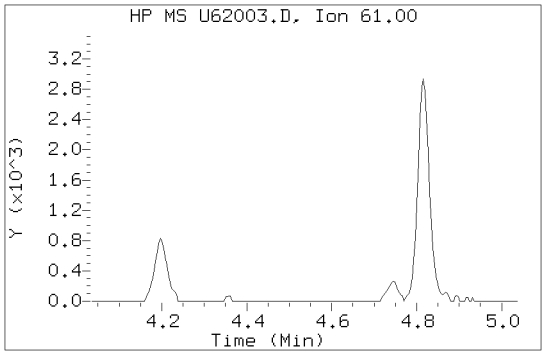
AFTER
MASS
43
AREA
659
HEIGHT
223
29-Jun-2024
12:18
s
zaid



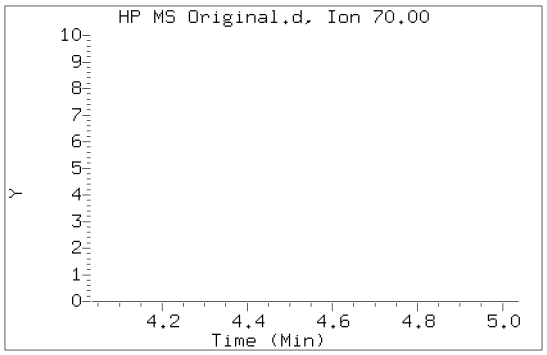
BEFORE
MASS
61
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



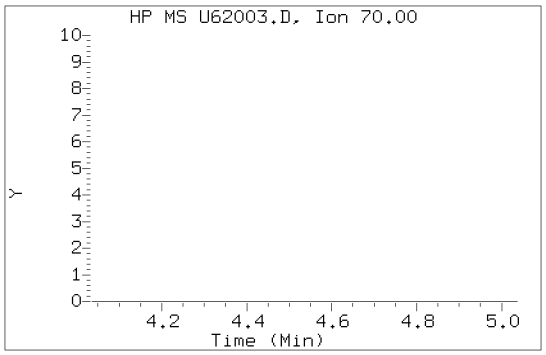
AFTER
MASS
61
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



BEFORE
MASS
70
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



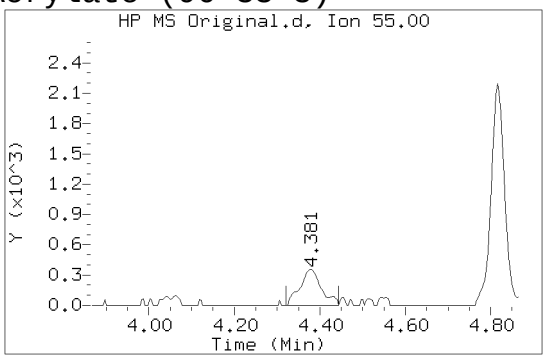
AFTER
MASS
70
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62003.D
Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

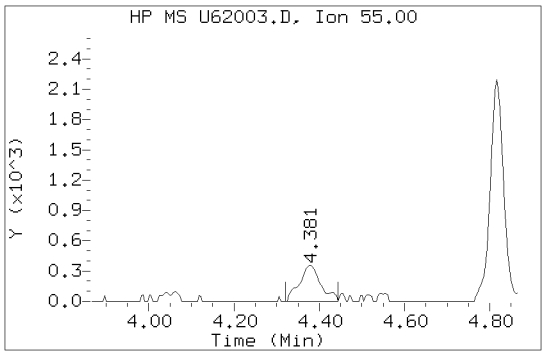
Methyl Acrylate (96-33-3)

BEFORE
MASS
55
AREA
1242
HEIGHT
358
29-Jun-2024
12:15
s
zaid

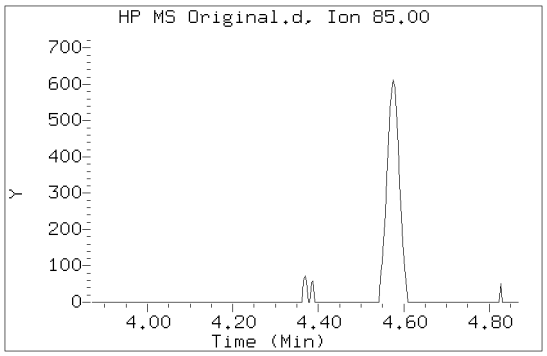


Reason Code:

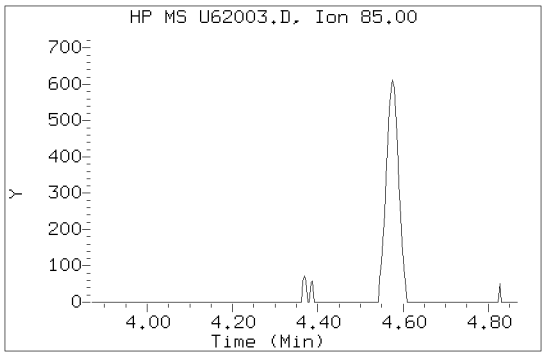
AFTER
MASS
55
AREA
1242
HEIGHT
358
29-Jun-2024
12:18
s
zaid



BEFORE
MASS
85
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid

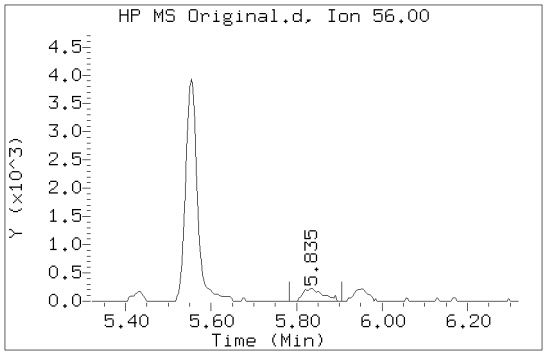


AFTER
MASS
85
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



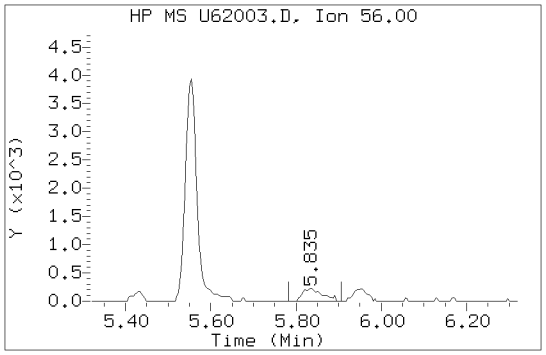
n-Butanol (71-36-3)

BEFORE
MASS
56
AREA
741
HEIGHT
233
29-Jun-2024
12:15
s
zaid

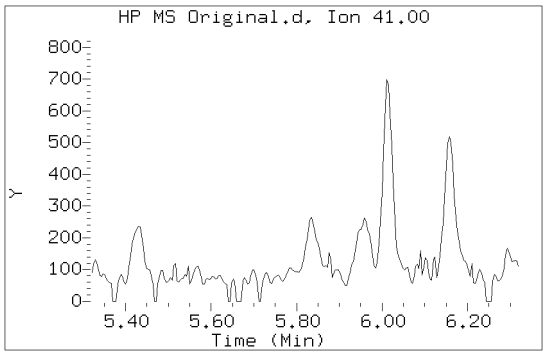


Reason Code:

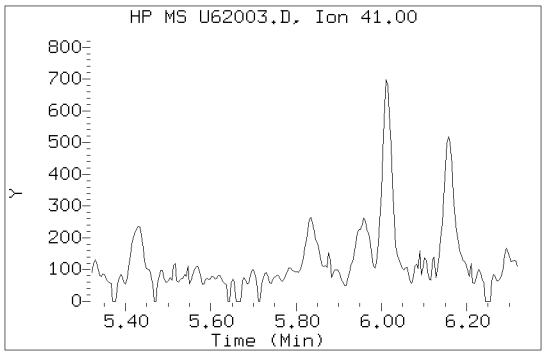
AFTER
MASS
56
AREA
741
HEIGHT
233
29-Jun-2024
12:18
s
zaid



BEFORE
MASS
41
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER
MASS
41
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



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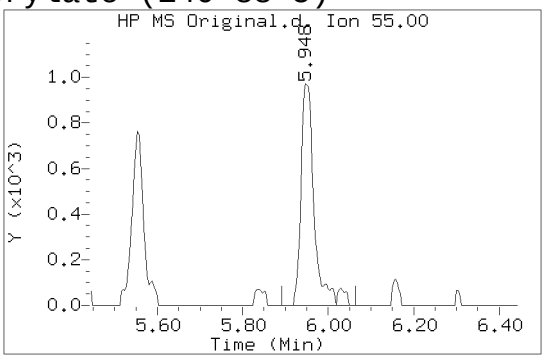
Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Ethyl Acrylate (140-88-5)

Reason Code:

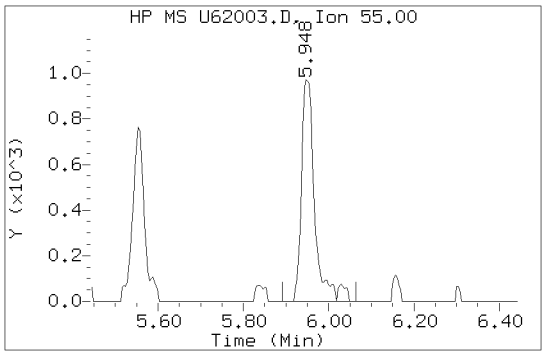
BEFORE

MASS
55
AREA
2148
HEIGHT
972
29-Jun-2024
12:15
s
zaid



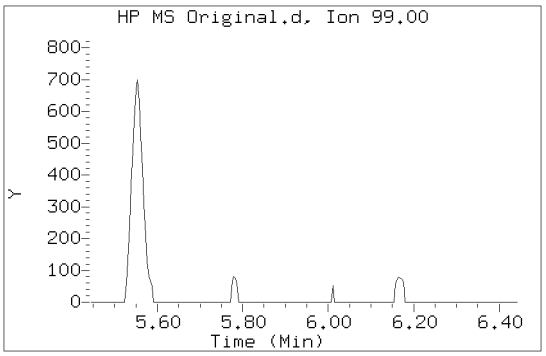
AFTER

MASS
55
AREA
2148
HEIGHT
972
29-Jun-2024
12:18
s
zaid



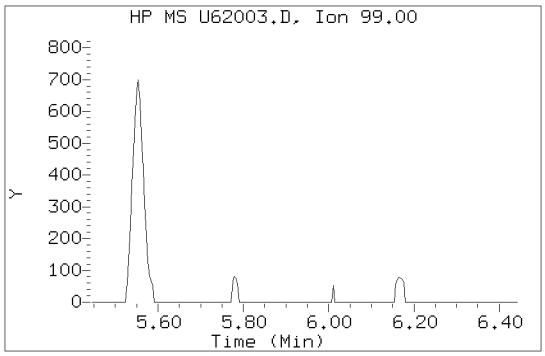
BEFORE

MASS
99
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
99
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid

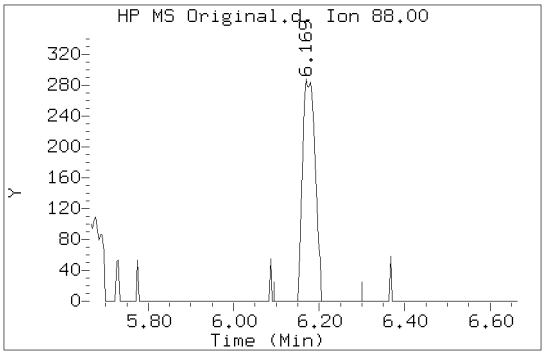


1,4-Dioxane ()

Reason Code:

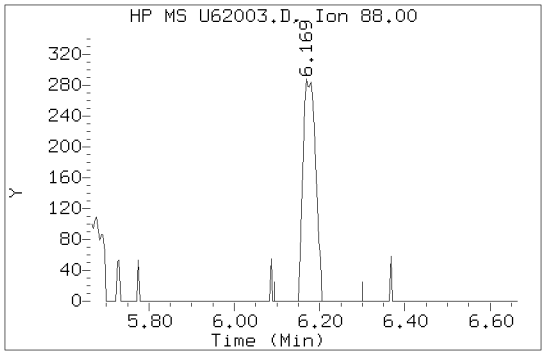
BEFORE

MASS
88
AREA
604
HEIGHT
288
29-Jun-2024
12:15
s
zaid



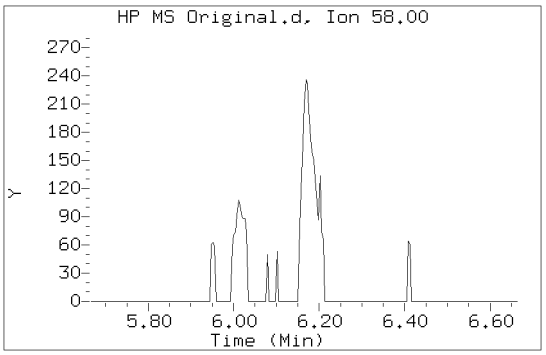
AFTER

MASS
88
AREA
604
HEIGHT
288
29-Jun-2024
12:18
s
zaid



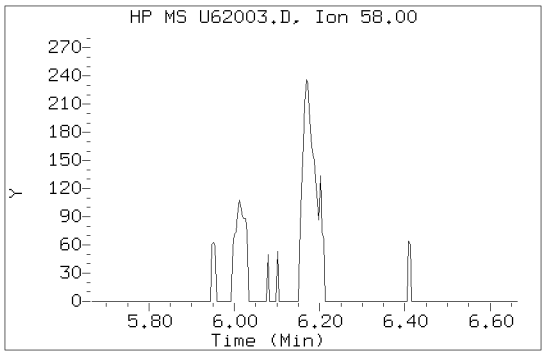
BEFORE

MASS
58
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
58
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



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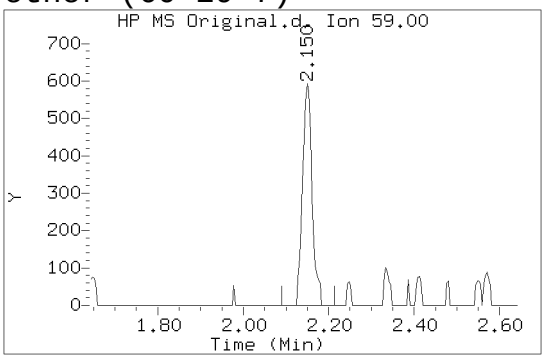
Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

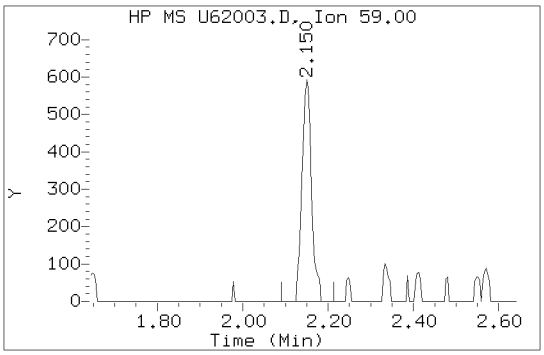
Diethyl ether (60-29-7)

Reason Code:

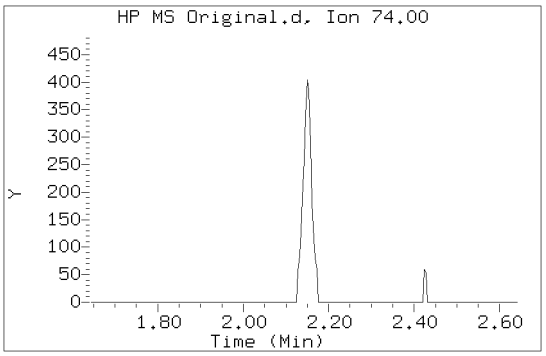
BEFORE
MASS
59
AREA
928
HEIGHT
593
29-Jun-2024
12:15
s
zaid



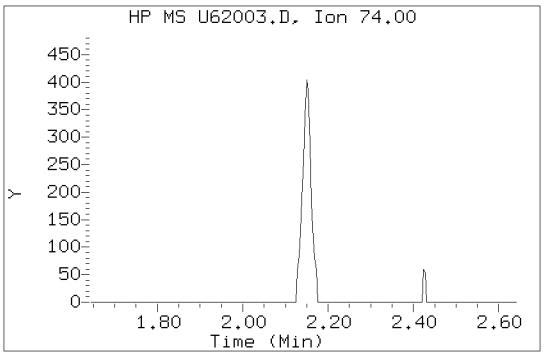
AFTER
MASS
59
AREA
928
HEIGHT
593
29-Jun-2024
12:18
s
zaid



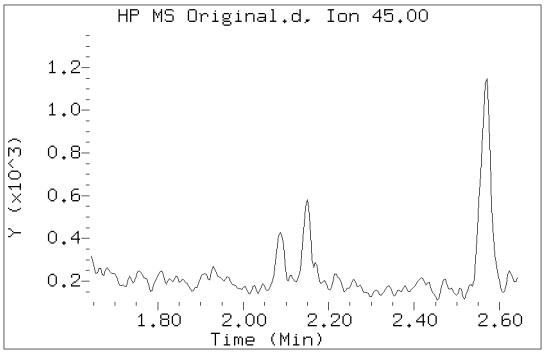
BEFORE
MASS
74
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



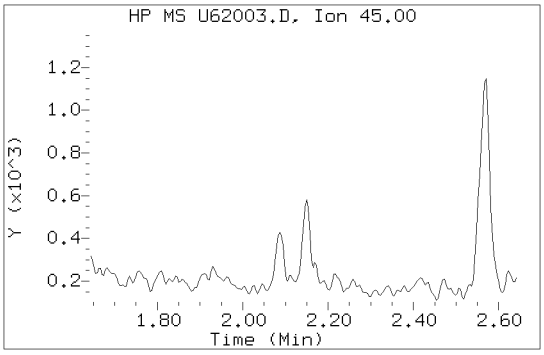
AFTER
MASS
74
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



BEFORE
MASS
45
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



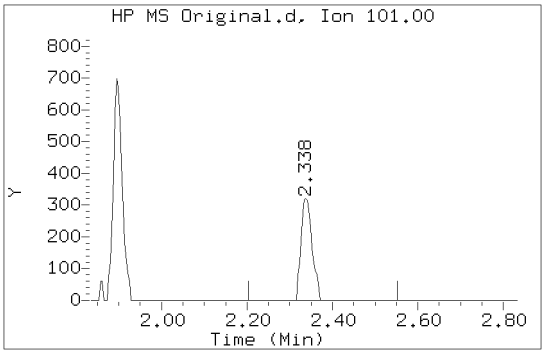
AFTER
MASS
45
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



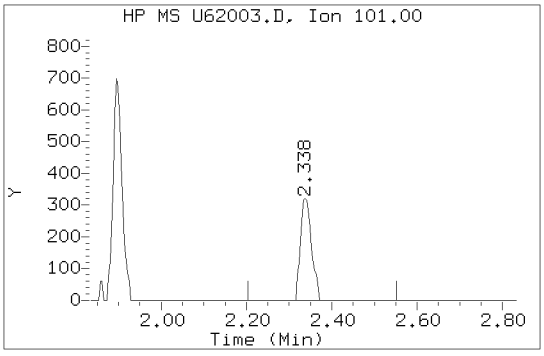
Freon TF (76-13-1)

Reason Code:

BEFORE
MASS
101
AREA
592
HEIGHT
320
29-Jun-2024
12:15
s
zaid



AFTER
MASS
101
AREA
592
HEIGHT
320
29-Jun-2024
12:18
s
zaid



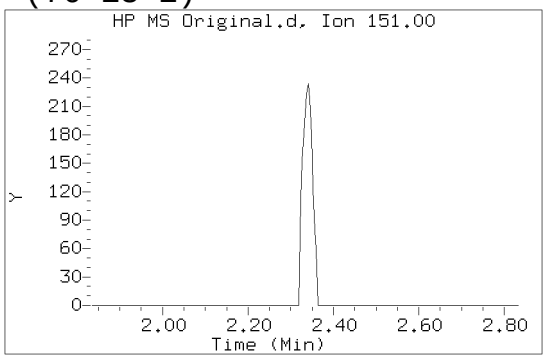
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62003.D
Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Freon TF (76-13-1)

Reason Code:

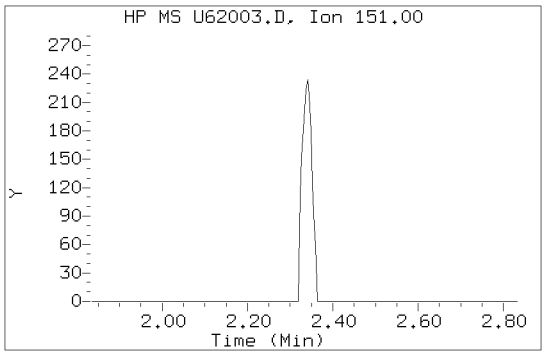
BEFORE

MASS
151
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
151
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid

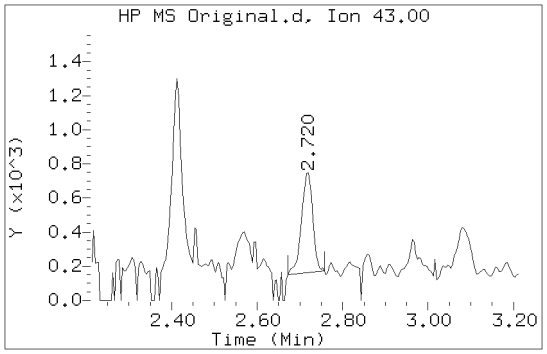


Methyl acetate (79-20-9)

Reason Code:

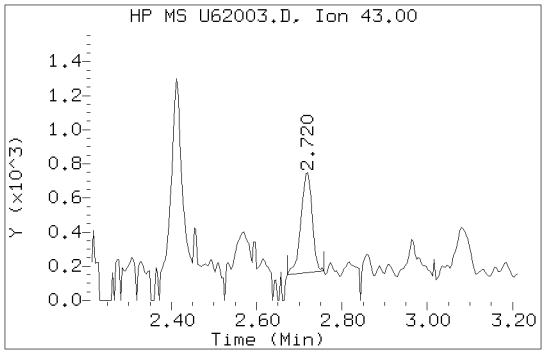
BEFORE

MASS
43
AREA
1084
HEIGHT
582
29-Jun-2024
12:15
s
zaid



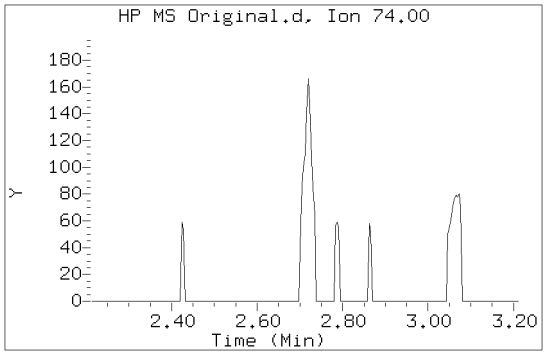
AFTER

MASS
43
AREA
1084
HEIGHT
582
29-Jun-2024
12:18
s
zaid



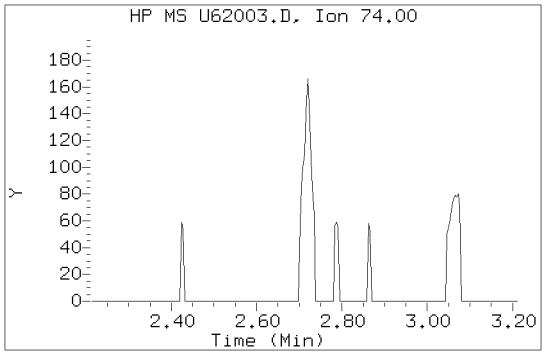
BEFORE

MASS
74
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
74
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid

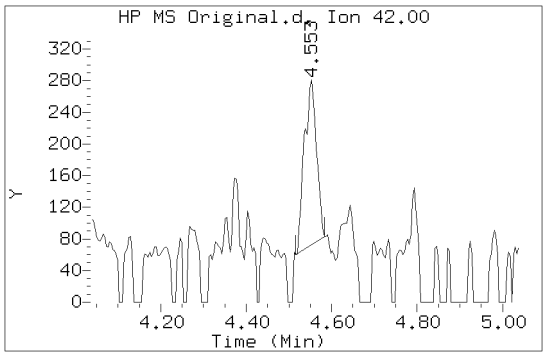


Tetrahydrofuran (109-99-9)

Reason Code:

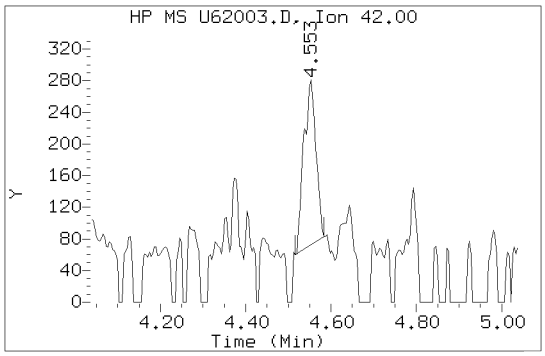
BEFORE

MASS
42
AREA
418
HEIGHT
208
29-Jun-2024
12:15
s
zaid



AFTER

MASS
42
AREA
418
HEIGHT
208
29-Jun-2024
12:18
s
zaid



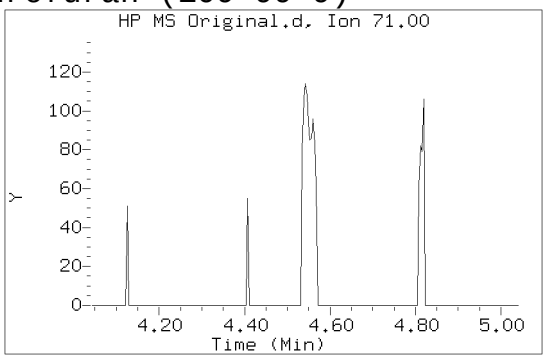
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62003.D
Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Tetrahydrofuran (109-99-9)

Reason Code:

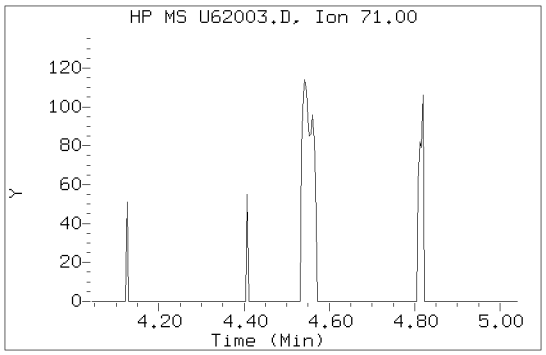
BEFORE

MASS
71
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
71
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid

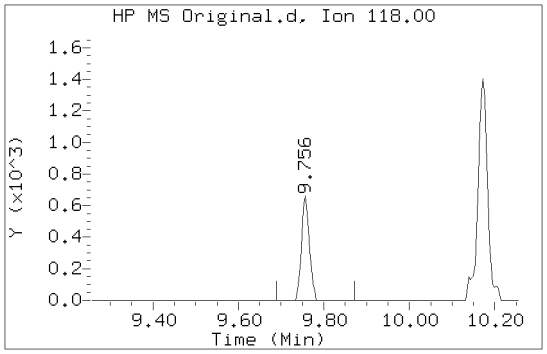


alpha-Methylstyrene (98-83-9)

Reason Code:

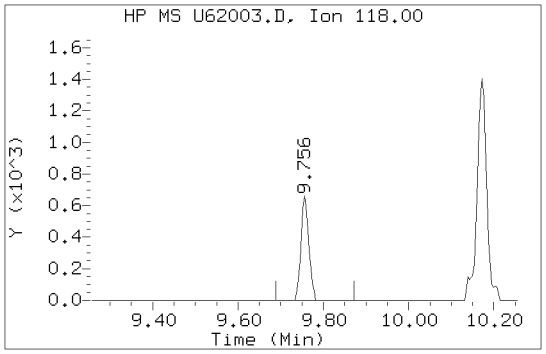
BEFORE

MASS
118
AREA
862
HEIGHT
660
29-Jun-2024
12:15
s
zaid



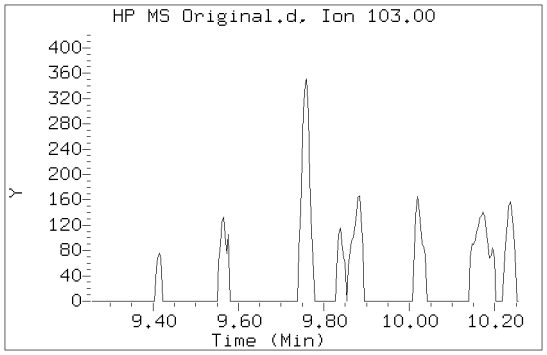
AFTER

MASS
118
AREA
862
HEIGHT
660
29-Jun-2024
12:18
s
zaid



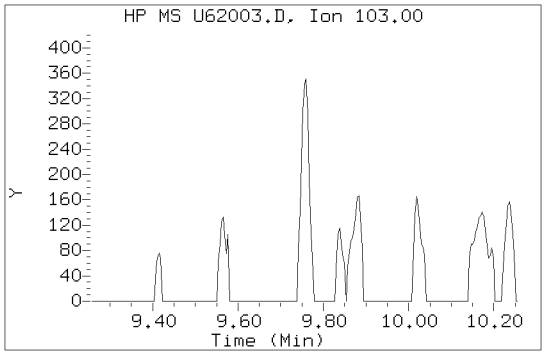
BEFORE

MASS
103
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
103
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid

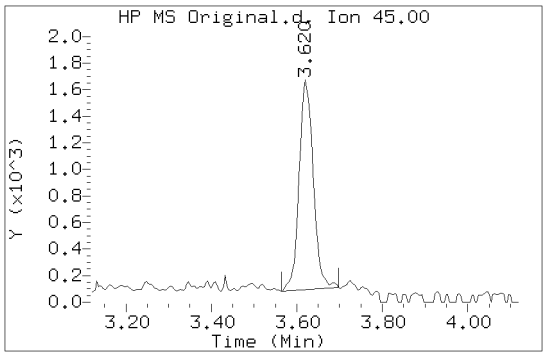


Diisopropyl ether (108-20-3)

Reason Code:

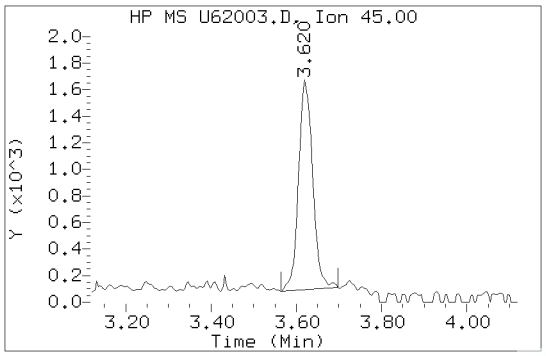
BEFORE

MASS
45
AREA
3700
HEIGHT
1578
29-Jun-2024
12:15
s
zaid



AFTER

MASS
45
AREA
3700
HEIGHT
1578
29-Jun-2024
12:18
s
zaid



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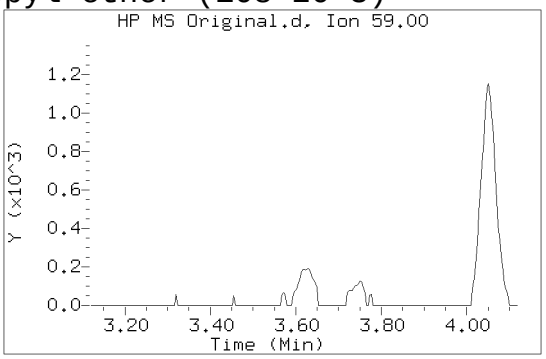
Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

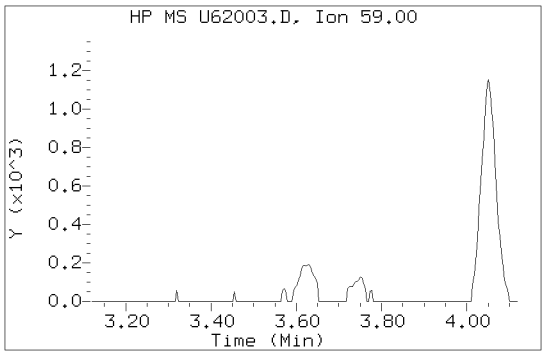
Diisopropyl ether (108-20-3)

Reason Code:

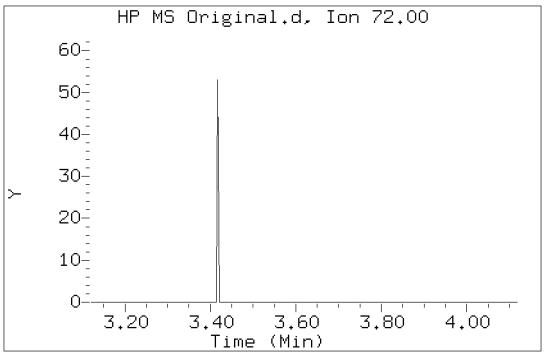
BEFORE
MASS
59
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



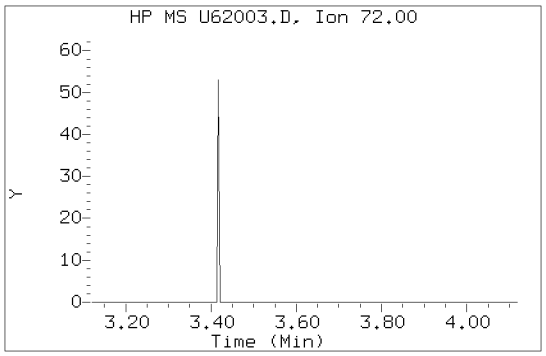
AFTER
MASS
59
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



BEFORE
MASS
72
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



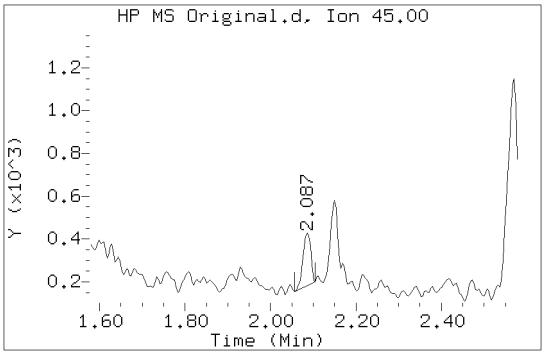
AFTER
MASS
72
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



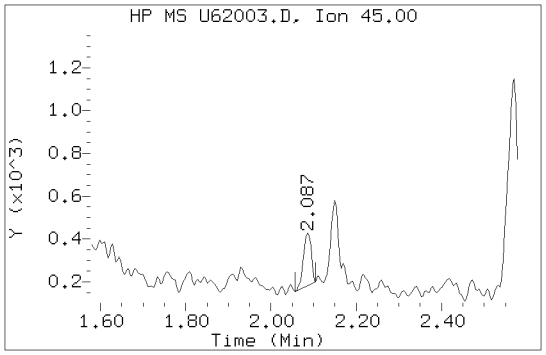
Ethanol (64-17-5)

Reason Code:

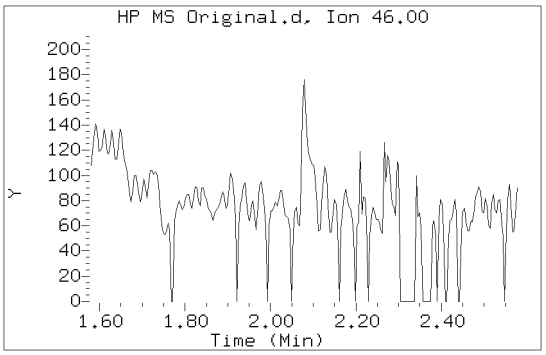
BEFORE
MASS
45
AREA
318
HEIGHT
245
29-Jun-2024
12:15
s
zaid



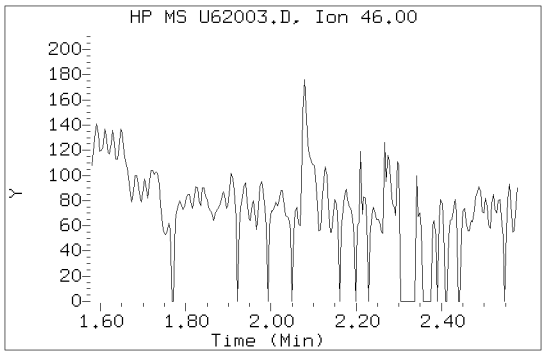
AFTER
MASS
45
AREA
318
HEIGHT
245
29-Jun-2024
12:18
s
zaid



BEFORE
MASS
46
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER
MASS
46
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



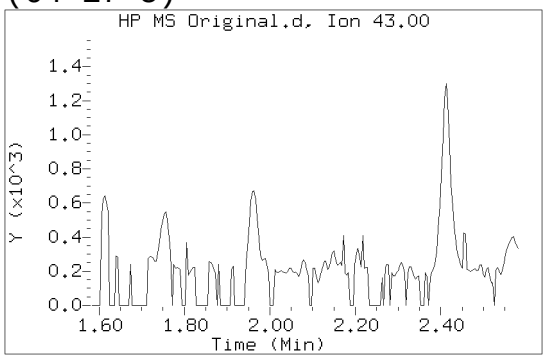
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62003.D
Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Ethanol (64-17-5)

Reason Code:

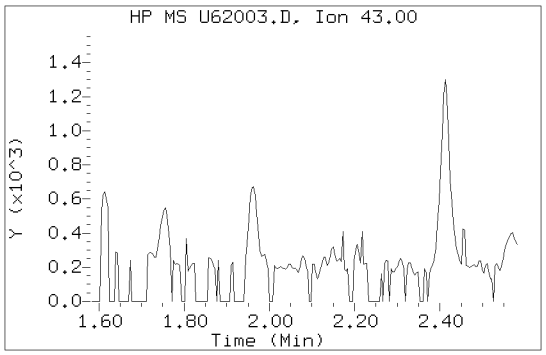
BEFORE

MASS
43
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
43
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid

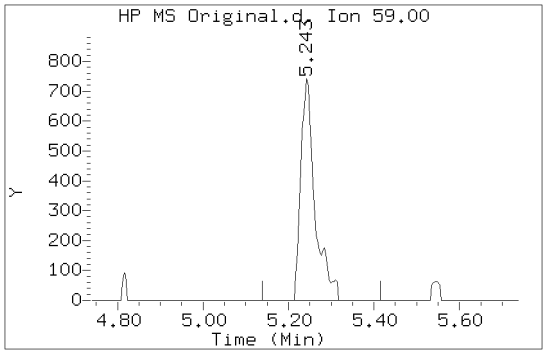


tert-Butyl formate (762-75-4)

Reason Code:

BEFORE

MASS
59
AREA
1751
HEIGHT
742
29-Jun-2024
12:15
s
zaid



AFTER

MASS
59
AREA
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HEIGHT
742
29-Jun-2024
12:18
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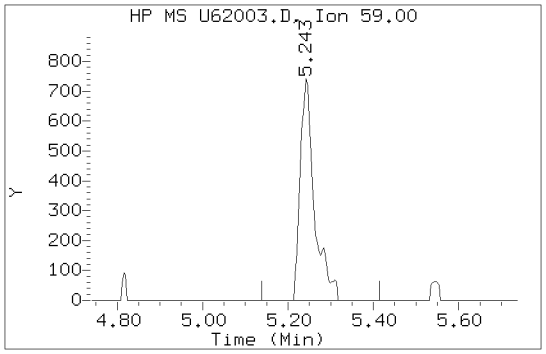
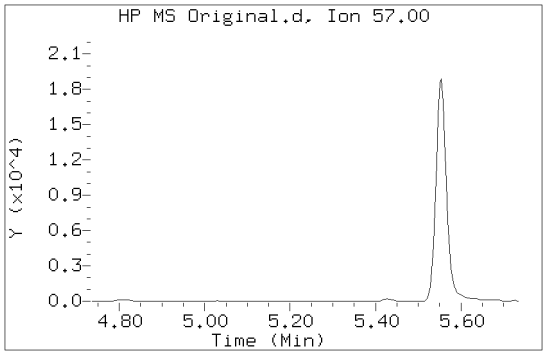
zaid



BEFORE

MASS
57
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
57
AREA
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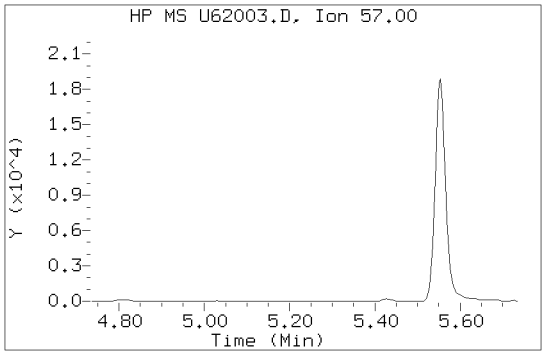
HEIGHT
0
29-Jun-2024
12:18
s
zaid



BEFORE

MASS
41
AREA
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HEIGHT
0
29-Jun-2024
12:15
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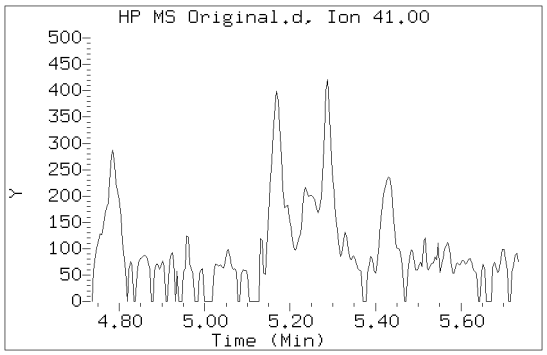
zaid



AFTER

MASS
41
AREA
0
HEIGHT
0
29-Jun-2024
12:18
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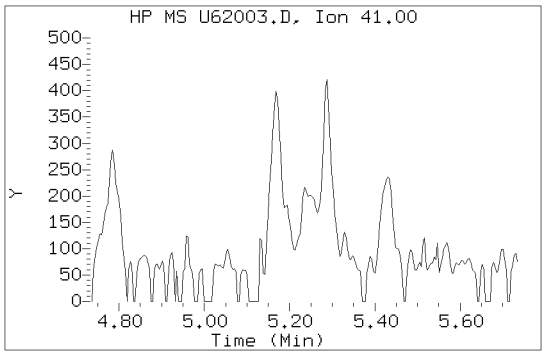
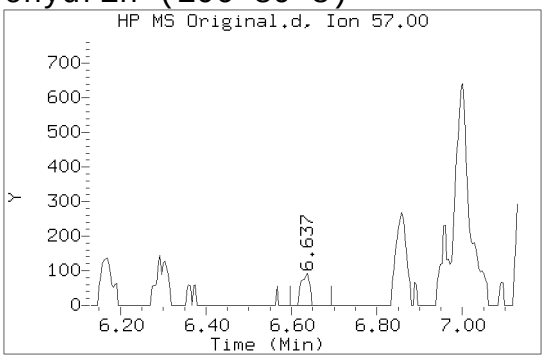
zaid



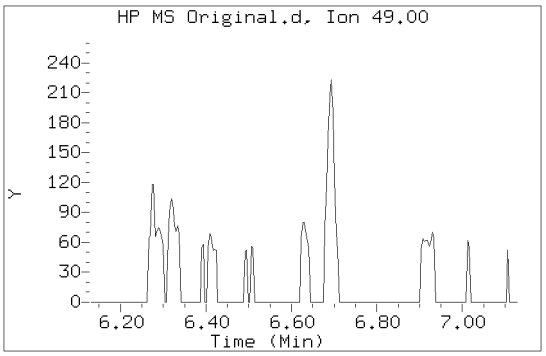
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62003.D
Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Epichlorohydrin (106-89-8)

BEFORE
MASS
57
AREA
129
HEIGHT
92
29-Jun-2024
12:15
s
zaid



BEFORE
MASS
49
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



Reason Code:

AFTER
MASS
57
AREA
129
HEIGHT
92
29-Jun-2024
12:18
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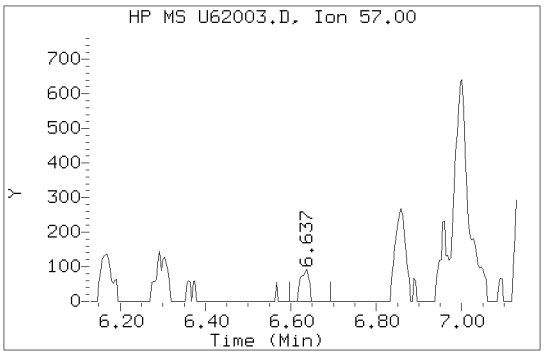
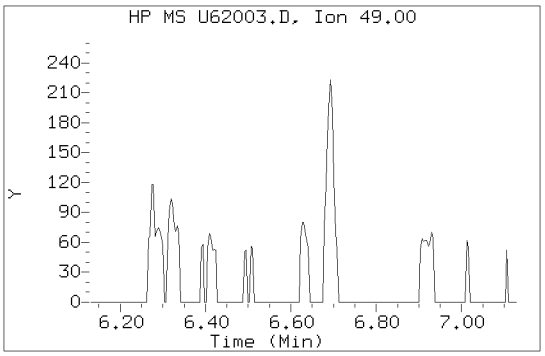
zaid

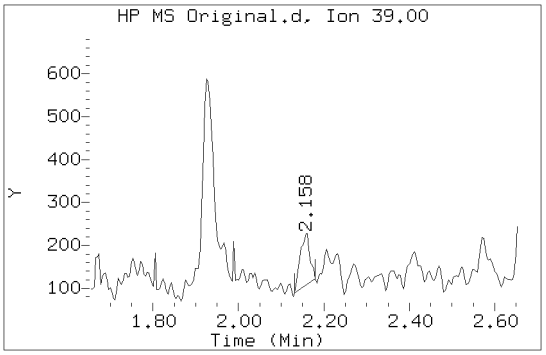


AFTER
MASS
49
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid

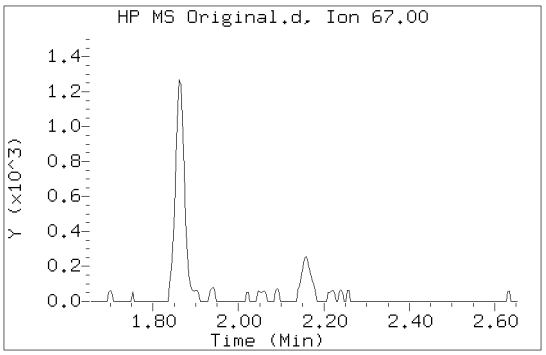


Isoprene (78-79-5)

BEFORE
MASS
39
AREA
195
HEIGHT
120
29-Jun-2024
12:15
s
zaid

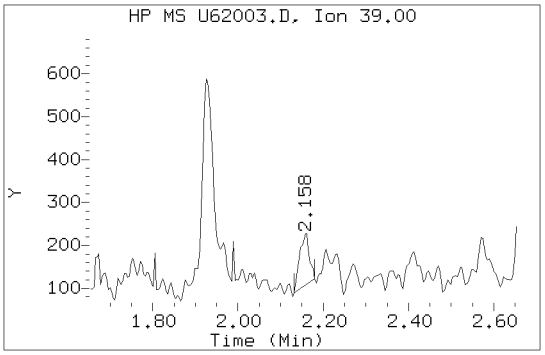


BEFORE
MASS
67
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid

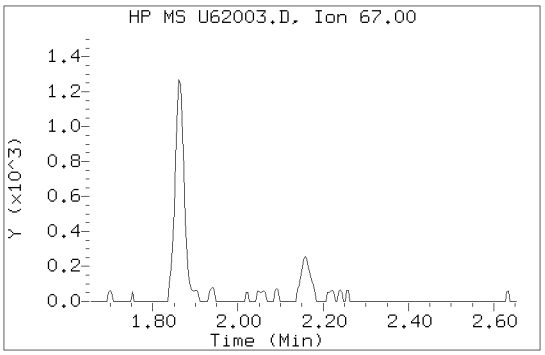


Reason Code:

AFTER
MASS
39
AREA
195
HEIGHT
120
29-Jun-2024
12:18
s
zaid



AFTER
MASS
67
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



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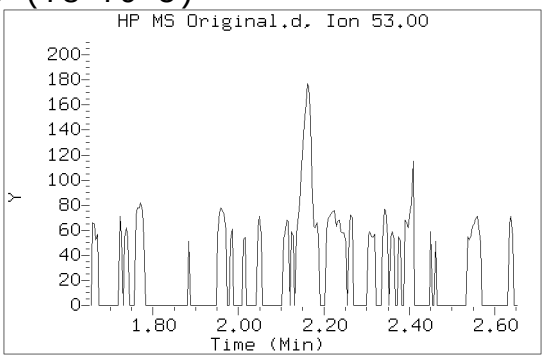
Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Isoprene (78-79-5)

BEFORE

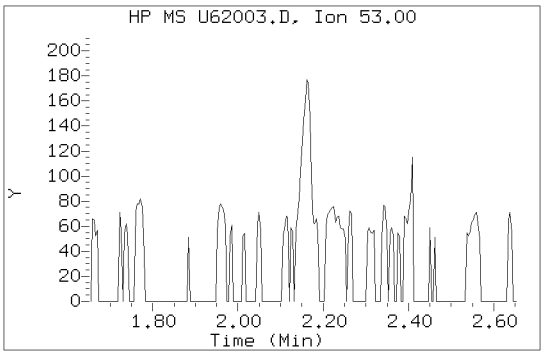
MASS
53
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
53
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid

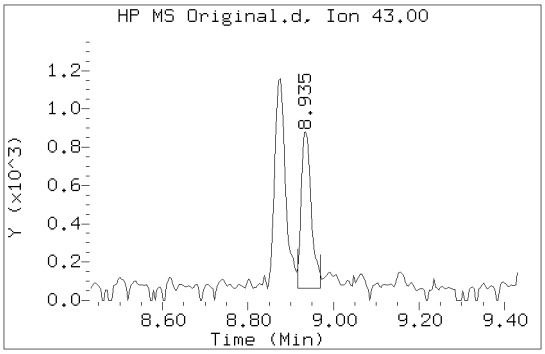
Reason Code:



n-Amyl acetate (628-63-7)

BEFORE

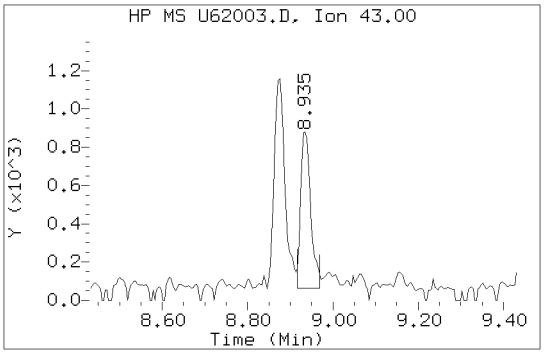
MASS
43
AREA
1387
HEIGHT
818
29-Jun-2024
12:15
s
zaid



AFTER

MASS
43
AREA
1387
HEIGHT
818
29-Jun-2024
12:18
s
zaid

Reason Code:



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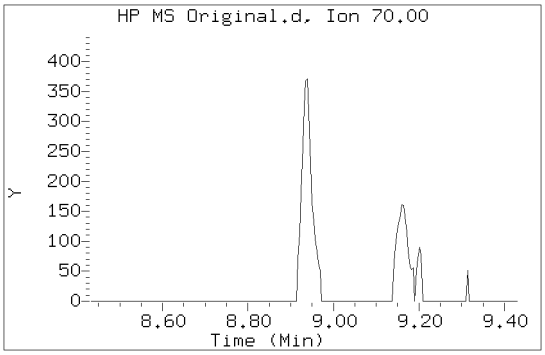

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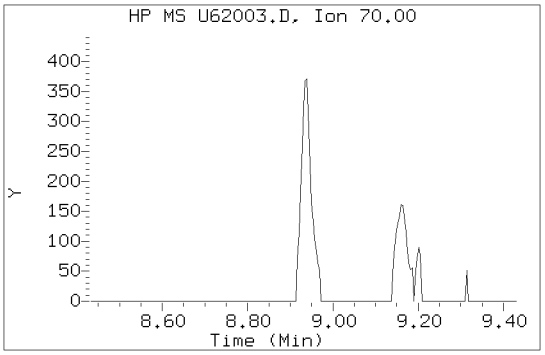

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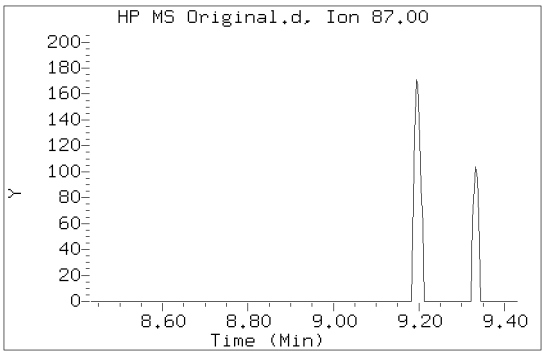

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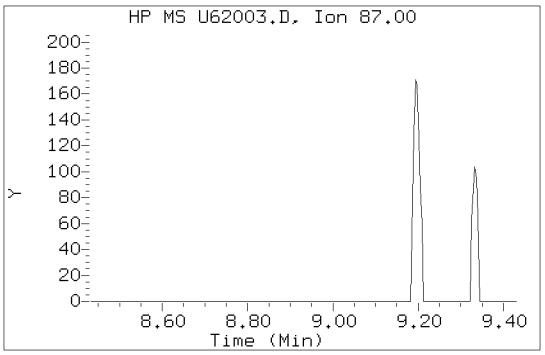

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Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Isopropyl acetate (108-21-4)

Reason Code:

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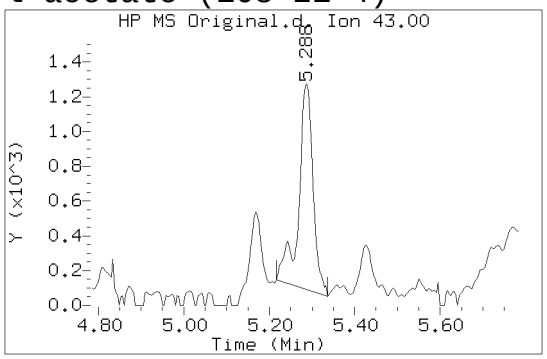

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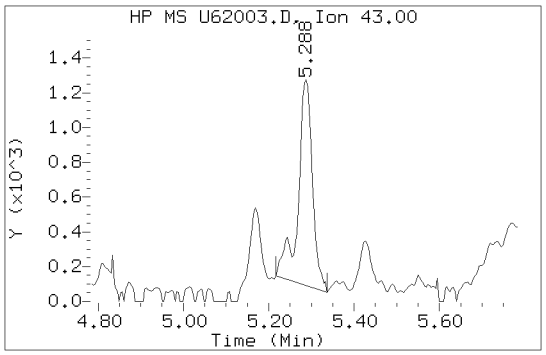

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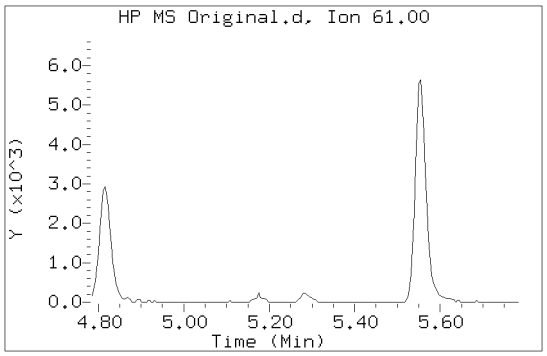

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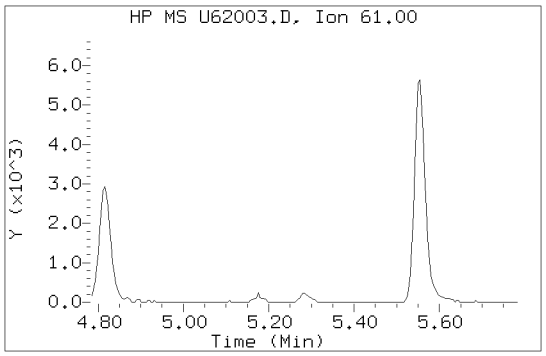

n-Butyl acetate (123-86-4)

Reason Code:

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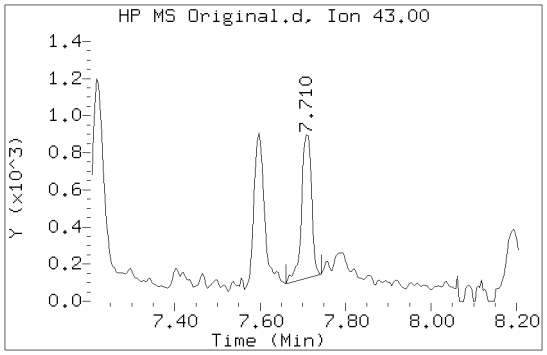

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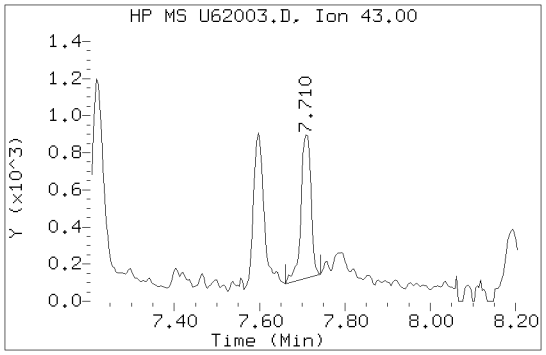

BEFORE

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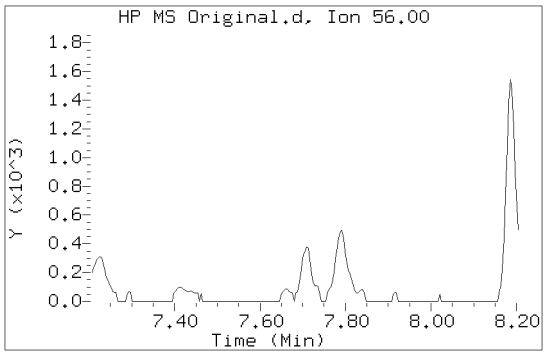

AFTER

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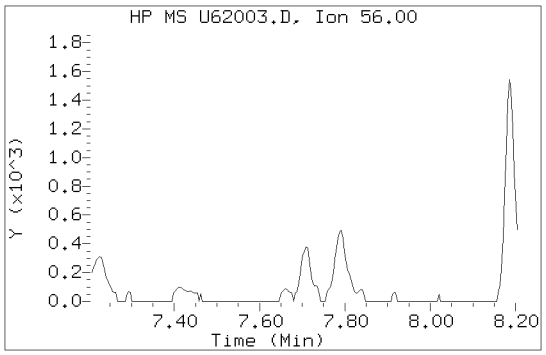

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Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

n-Butyl acetate (123-86-4)

Reason Code:

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29-Jun-2024
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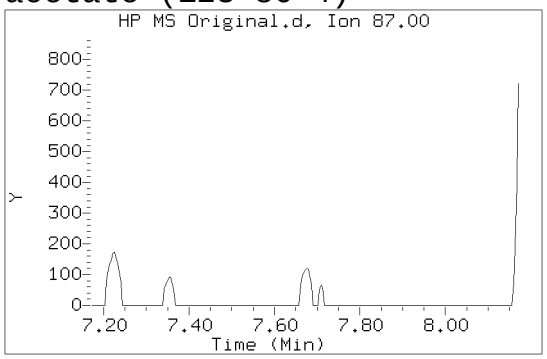

AFTER

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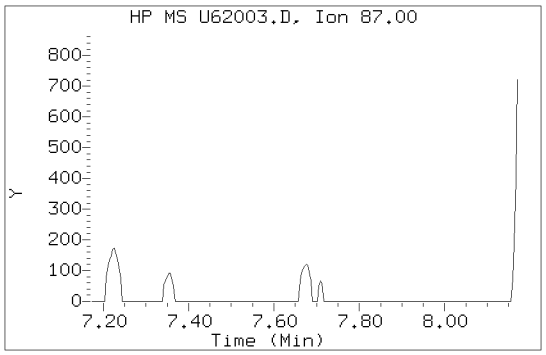

Dimethyl Disulfide (624-92-0)

Reason Code:

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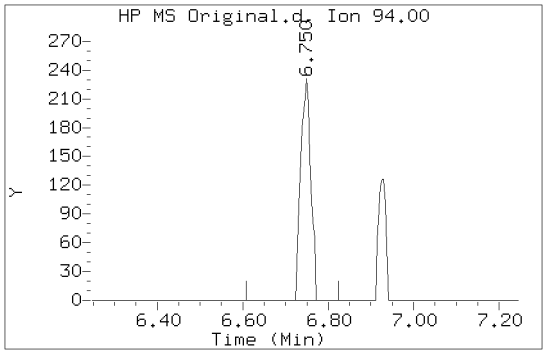

AFTER

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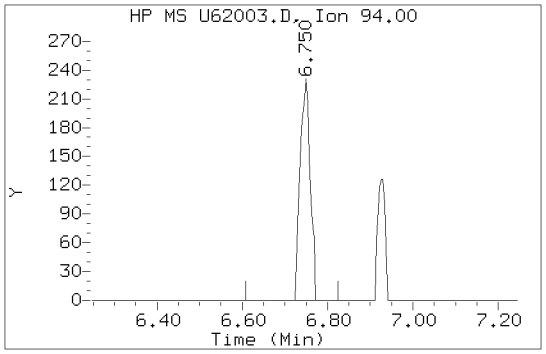

BEFORE

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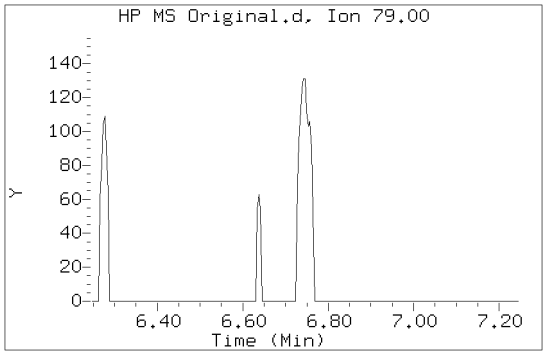

AFTER

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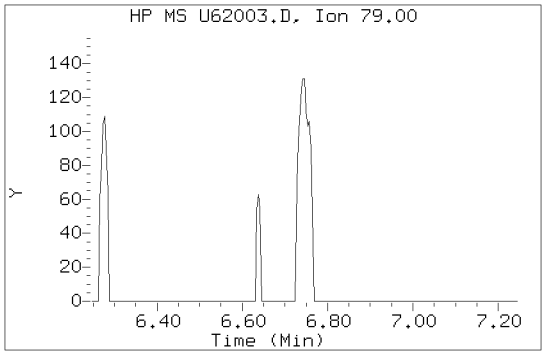

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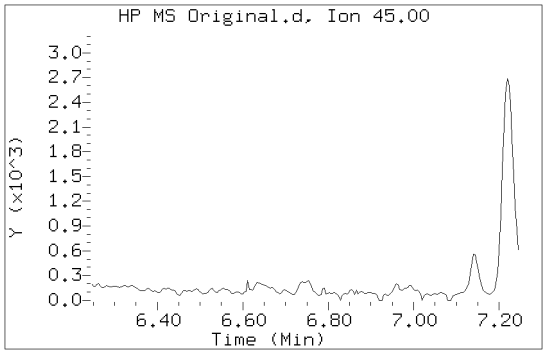

AFTER

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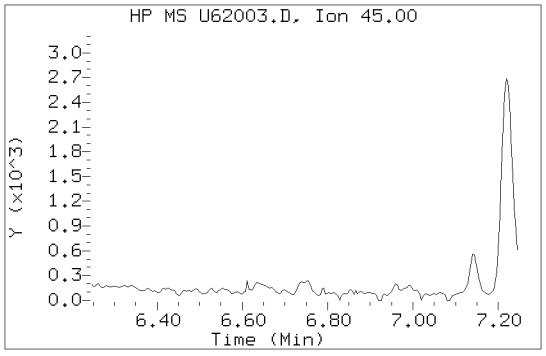

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Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

sec-Butyl Ether (6863-58-7)

Reason Code:

BEFORE

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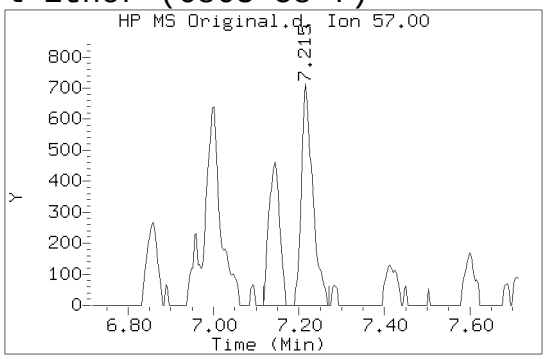

AFTER

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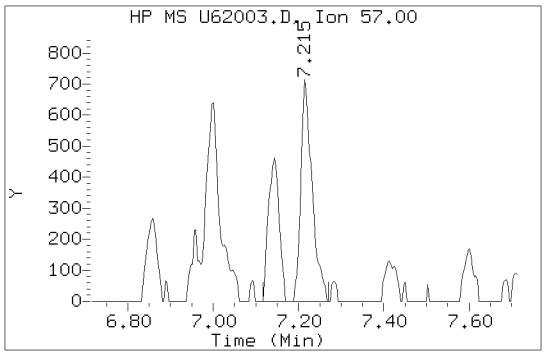

2-Chloropropene (557-98-2)

Reason Code:

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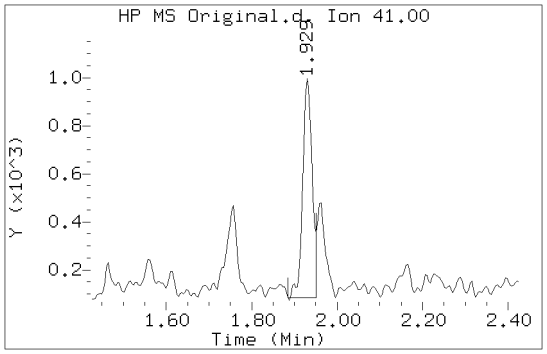

AFTER

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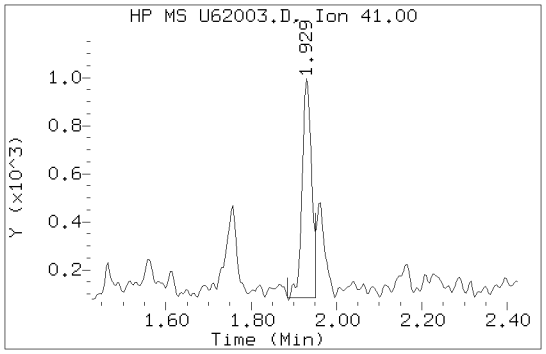

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62004.D Page 1
Report Date: 29-Jun-2024 12:15

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62004.D
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Inj Date : 20-JUN-2024 12:06
Operator : TS Inst ID: VOA9.i
Smp Info : VSTD001;VSTD001;1;3
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240620.b\8260C.m
Meth Date : 29-Jun-2024 12:15 VOA9.i Quant Type: ISTD
Cal Date : 20-JUN-2024 11:44 Cal File: U62003.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: NAHSTW7014

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)	237223	50.0000	
2 Dichlorodifluoromethane	85	1.164	1.164	(0.242)	1213	1.00000	0.71(M)
3 Chloromethane	50	1.295	1.295	(0.269)	8737	1.00000	0.80
4 Propionitrile	54	4.343	4.343	(0.902)	2871	10.0000	6.62(aM)
5 Vinyl Chloride	62	1.378	1.378	(0.286)	1918	1.00000	1.03(M)
6 Bromomethane	94	1.618	1.618	(0.336)	1849	1.00000	0.15(a)
7 Chloroethane	64	1.700	1.700	(0.353)	1738	1.00000	0.64
8 Trichlorofluoromethane	101	1.895	1.895	(0.394)	1563	1.00000	0.68
9 Acrolein	56	2.259	2.259	(0.469)	371	2.00000	(aM)
11 1,1-Dichloroethene	96	2.334	2.334	(0.485)	1203	1.00000	0.86
12 Isobutyl Alcohol	43	5.284	5.284	(1.097)	5036	20.0000	21.50(a)
13 Acetonitrile	39	2.671	2.671	(0.555)	1990	10.0000	0.76(a)
14 Allyl Chloride	41	2.671	2.671	(0.555)	5257	1.00000	0.74(a)
15 Iodomethane	142	2.465	2.465	(0.512)	1546	2.00000	3.43(T)
16 Acrylonitrile	53	3.065	3.065	(0.636)	1767	2.00000	2.55
17 Methylene Chloride	84	2.791	2.791	(0.580)	3728	1.00000	0.64
18 Methyl tert-butyl ether	73	3.080	3.080	(0.640)	4855	1.00000	1.59
19 Carbon Disulfide	76	2.517	2.517	(0.523)	6497	2.00000	1.70(M)
20 trans-1,2-Dichloroethene	96	3.057	3.057	(0.635)	1556	1.00000	0.46(a)
21 Vinyl Acetate	43	4.343	4.343	(0.902)	2234	2.00000	2.38(M)

22 1,1-Dichloroethane	63	3.511	3.511 (0.729)	3062	1.00000	0.33(Ta)
23 Chloroprene	53	3.608	3.608 (0.749)	2091	1.00000	0.64(a)

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62004.D Page 2
Report Date: 29-Jun-2024 12:15

			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)	2089	2.00000	2.68(M)
	25	Methacrylonitrile	41	4.500	4.500	(0.935)	1366	1.00000	2.12(aM)
	26	2,2-Dichloropropane	77	4.178	4.178	(0.868)	1823	1.00000	1.38(M)
	27	cis-1,2-Dichloroethene	96	4.193	4.193	(0.871)	1910	1.00000	0.74
	28	Chloroform	83	4.568	4.568	(0.949)	3088	1.00000	0.23(a)
	29	Bromochloromethane	128	4.467	4.467	(0.928)	942	1.00000	0.99
$	30	Dibromofluoromethane	113	4.748	4.748	(0.986)	1342	1.00000	0.85
	31	1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	1578	1.00000	0.71
	32	1,1-Dichloropropene	75	4.920	4.920	(0.887)	1570	1.00000	0.72(M)
	34	Carbon Tetrachloride	117	4.909	4.909	(0.885)	1323	1.00000	0.73(M)
$	35	1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	1907	1.00000	0.94(T)
*	36	1,4-Difluorobenzene	114	5.550	5.550	(1.000)	354258	50.0000	
	37	Benzene	78	5.138	5.138	(0.926)	7178	1.00000	0.98
	38	Trichloroethene	130	5.790	5.790	(1.043)	1551	1.00000	0.87(a)
	39	Bromodichloromethane	83	6.273	6.273	(1.130)	1865	1.00000	0.90(aM)
	40	Methyl Methacrylate	41	5.827	5.827	(1.210)	587	1.00000	0.94(aM)
	42	1,2-Dichloropropane	63	6.007	6.007	(1.082)	1860	1.00000	0.96(a)
	43	2-Nitropropane	43	6.510	6.510	(1.352)	357	1.00000	0.95(aM)
	44	Dibromomethane	93	6.120	6.120	(1.103)	1078	1.00000	0.95(a)
	45	4-Methyl-2-Pentanone	43	6.854	6.854	(0.837)	3187	2.00000	1.82(a)
	46	cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	2008	1.00000	0.83(a)
*	47	Chlorobenzene-d5	117	8.185	8.185	(1.000)	316055	50.0000	
$	48	Toluene-d8	98	6.922	6.922	(0.846)	5525	1.00000	0.90(a)
	49	Ethyl Methacrylate	69	7.293	7.293	(1.314)	1885	1.00000	0.83(a)
	50	Toluene	91	6.982	6.982	(0.853)	6432	1.00000	0.89(a)
	51	trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	1381	1.00000	2.81(aM)
	52	2-Hexanone	43	7.218	7.218	(0.882)	3306	2.00000	1.97(a)
	53	1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	1411	1.00000	1.01(a)
	54	1,3-Dichloropropane	76	7.499	7.499	(0.916)	2872	1.00000	0.98(a)
	55	Dibromochloromethane	129	7.690	7.690	(0.940)	1224	1.00000	0.84(a)
	56	Tetrachloroethene	164	7.458	7.458	(0.911)	1175	1.00000	0.87(a)
	57	1,2-Dibromoethane	107	7.784	7.784	(0.951)	1379	1.00000	0.89(a)
	58	1-Chlorohexane	55	8.185	8.185	(1.475)	4107	1.00000	2.31(a)
	59	Chlorobenzene	112	8.208	8.208	(1.003)	4783	1.00000	0.32(a)
	60	1,1,1,2-Tetrachloroethane	131	8.286	8.286	(1.012)	1412	1.00000	0.91(a)
	61	Ethylbenzene	106	8.305	8.305	(1.015)	1810	1.00000	0.81(a)
	62	m,p-Xylenes	106	8.410	8.410	(1.027)	4030	2.00000	1.51(a)
	63	o-Xylene	106	8.751	8.751	(1.069)	2119	1.00000	0.80(a)
	64	Styrene	104	8.763	8.763	(1.071)	3240	1.00000	0.73(a)
	66	Bromoform	173	8.920	8.920	(1.090)	774	1.00000	1.74(aM)
	67	Isopropylbenzene	105	9.062	9.062	(1.107)	4712	1.00000	0.72(a)
	68	1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	2063	1.00000	0.70(aM)
$	69	4-Bromofluorobenzene	95	9.194	9.194	(1.123)	2909	1.00000	1.20(a)
*	70	1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	163582	50.0000	
	71	1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	2095	1.00000	1.82(a)
	72	trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	399	1.00000	0.90(aM)
	73	n-Propylbenzene	91	9.415	9.415	(0.926)	5205	1.00000	0.73(a)
	74	Bromobenzene	156	9.317	9.317	(0.916)	1758	1.00000	0.91(a)
	75	1,3,5-Trimethylbenzene	105	9.565	9.565	(0.940)	3570	1.00000	2.33(a)
	76	2-Chlorotoluene	91	9.486	9.486	(0.933)	4277	1.00000	0.89(a)
	77	4-Chlorotoluene	91	9.576	9.576	(0.941)	4871	1.00000	0.89(a)
	78	tert-Butylbenzene	119	9.838	9.838	(0.967)	3275	1.00000	0.75(a)

79 1,2,4-Trimethylbenzene	105	9.880	9.880 (0.971)	6112	1.00000	1.17(aM)
81 sec-Butylbenzene	105	10.022	10.022 (0.985)	4360	1.00000	0.75(a)

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62004.D Page 3
Report Date: 29-Jun-2024 12:15

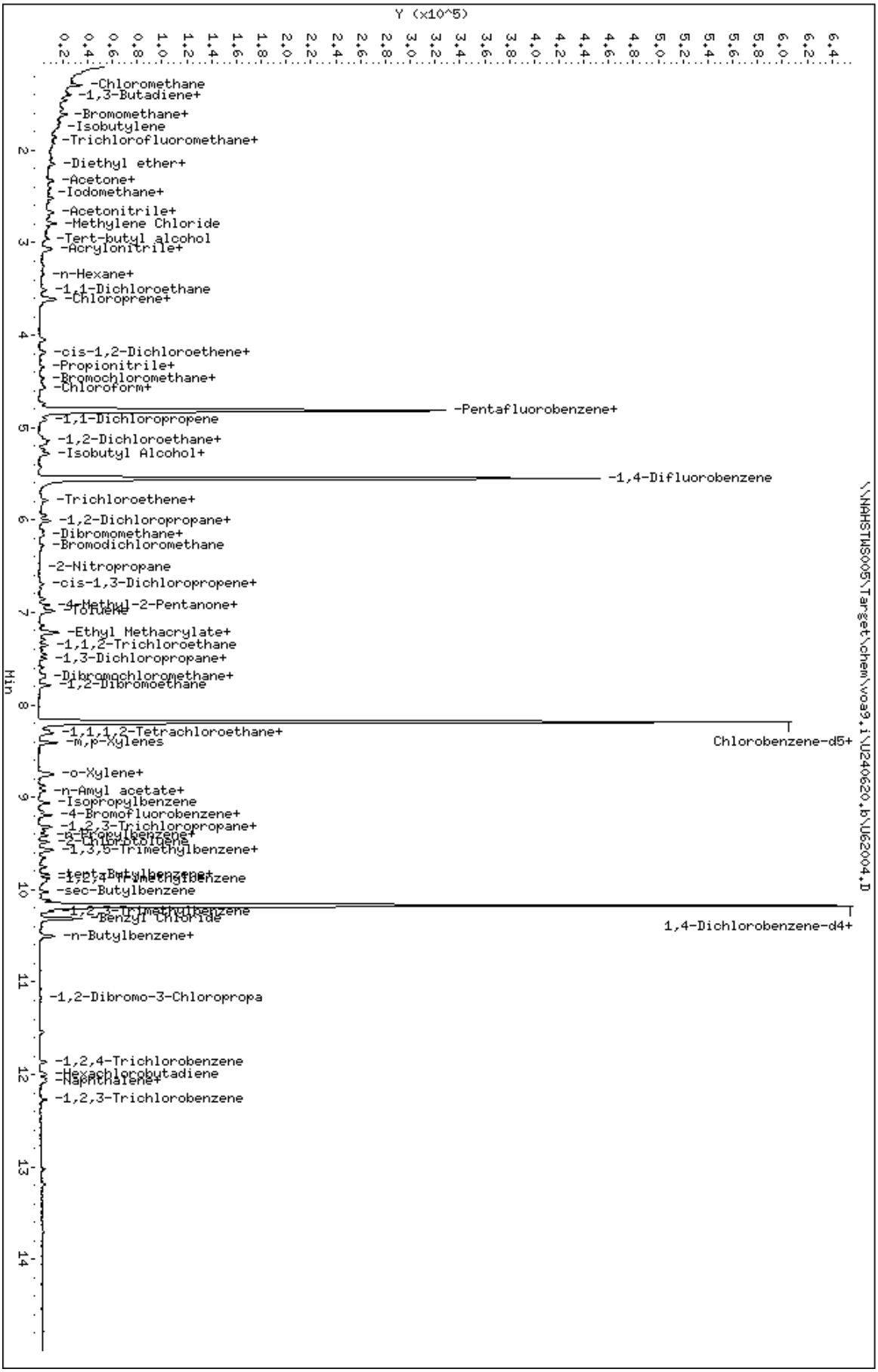
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
82	p-Isopropyltoluene	119	10.150	10.150	(0.998)	3438	1.00000	2.24(a)
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	3343	1.00000	0.94(a)
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	3940	1.00000	0.54(a)
86	Benzyl Chloride	91	10.315	10.315	(1.260)	23420	1.00000	3.55(a)
87	n-Butylbenzene	91	10.494	10.494	(1.032)	2847	1.00000	1.92(a)
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	3460	1.00000	0.98(a)
89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	163	1.00000	0.91(aM)
90	1,2,4-Trichlorobenzene	180	11.863	11.863	(1.166)	1929	1.00000	0.90(aM)
91	Hexachlorobutadiene	225	11.998	11.998	(1.179)	909	1.00000	0.96(aM)
92	Naphthalene	128	12.073	12.073	(1.187)	3393	1.00000	2.61(a)
93	1,2,3-Trichlorobenzene	180	12.275	12.275	(1.207)	1793	1.00000	0.91(aM)
146	Methyl acetate	43	2.708	2.708	(0.563)	1432	1.00000	(aM)
141	Cyclohexane	56	4.815	4.815	(1.000)	5426	1.00000	1.45(a)
142	Tetrahydrofuran	42	4.549	4.549	(0.945)	580	2.00000	2.06(aM)
147	Methylcyclohexane	55	5.947	5.947	(1.072)	3011	1.00000	0.80(a)
135	1,4-Dioxane	88	6.172	6.172	(1.282)	731	20.0000	3.54(aM)
132	n-Butanol	56	5.831	5.831	(1.211)	943	20.0000	21.17(a)
136	n-Hexane	57	3.342	3.342	(0.694)	1023	1.00000	0.67(Ta)
139	Diethyl ether	59	2.142	2.142	(0.445)	1489	1.00000	0.33(a)
148	Tert-butyl alcohol	59	2.963	2.963	(0.615)	3648	20.0000	14.62
149	Isopropyl alcohol	45	2.562	2.562	(0.532)	2486	20.0000	8.83(T)
156	Diisopropyl ether	45	3.619	3.619	(0.752)	6473	1.00000	1.13(Ta)
162	Butyl acrylate	55	8.736	8.736	(1.067)	2642	1.00000	0.90(a)
164	Dicyclopentadiene	66	10.202	10.202	(1.003)	6874	1.00000	0.97(a)
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	4790	1.00000	1.02(a)
167	Ethanol	45	2.079	2.079	(0.432)	748	20.0000	14.58
172	tert-Butyl formate	59	5.239	5.239	(1.088)	2782	2.00000	1.54(aM)
151	4-Methyl-2-pentanol	45	7.218	7.218	(1.301)	8799	20.0000	18.01
140	1,3-Butadiene	54	1.404	1.404	(0.292)	1536	1.00000	0.75(a)
182	Epichlorohydrin	57	6.630	6.630	(1.195)	188	4.00000	7.99(M)
M 94	1,2-Dichloroethylene (total)	96				3466	2.00000	(a)
130	Ethyl Acetate	43	4.534	4.534	(0.942)	903	1.00000	(aM)
131	Methyl Acrylate	55	4.377	4.377	(0.909)	2131	1.00000	1.08(aM)
189	n-Butyl acetate	43	7.709	7.709	(0.942)	2103	1.00000	0.83(aM)
134	Cyclohexanone	55	9.156	9.156	(0.900)	2164	20.0000	17.93(Ta)
185	Isoprene	39	2.146	2.146	(0.446)	260	1.00000	0.75(aM)
188	Isopropyl acetate	43	5.284	5.284	(0.952)	4316	1.00000	0.91(aM)
150	Allyl alcohol	57	3.342	3.342	(0.694)	1023	20.0000	13.45
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	761	1.00000	1.99(aM)
202	Isobutylene	41	1.745	1.745	(0.362)	329	1.00000	1.71(aM)
133	Ethyl Acrylate	55	5.947	5.947	(1.235)	3253	1.00000	0.87(aM)
163	Butyl methacrylate	41	9.651	9.651	(0.949)	2158	1.00000	0.70(a)
178	Ethylene oxide	44	1.606	1.606	(0.334)	2844	2.00000	1.61(aM)
203	2-Ethylhexyl Acrylate	55	12.046	12.046	(1.184)	1803	1.00000	2.29(a)
204	Tetrahydrothiophene	60	7.675	7.675	(0.938)	1763	1.00000	0.98(aA)
205	sec-Butyl Ether	57	7.218	7.218	(0.882)	3683	1.00000	1.04(aAM)
187	n-Amyl acetate	43	8.935	8.935	(1.092)	2778	1.00000	0.99(aM)
206	2-Chloropropene	41	1.925	1.925	(0.400)	1854	1.00000	0.76(aAM)

QC Flag Legend

T - Target compound detected outside RT window.
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.
M - Compound response manually integrated.



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Client ID: VSTD001
Sample Info: VSTD001;VSTD001;1;3
Purge Volume: 5.0
Column phase: DB624

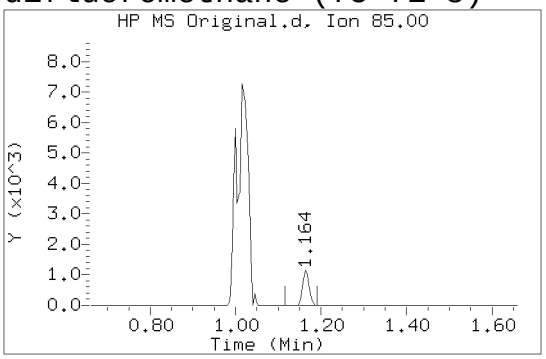
Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62004.D
Inj Date : 20-JUN-2024 12:06
InstruID : VOA9.i
LabSampID : VSTD001

Dichlorodifluoromethane (75-71-8)

Reason Code:

BEFORE
MASS
85
AREA
1213
HEIGHT
1152
29-Jun-2024
12:15
s
zaid



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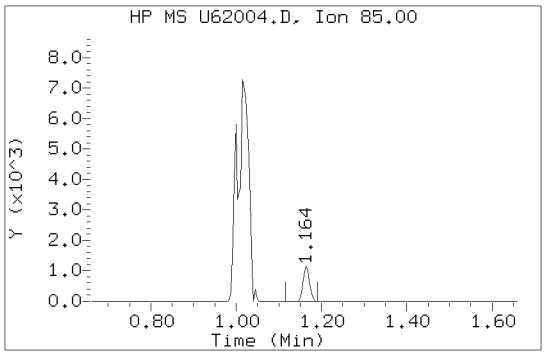

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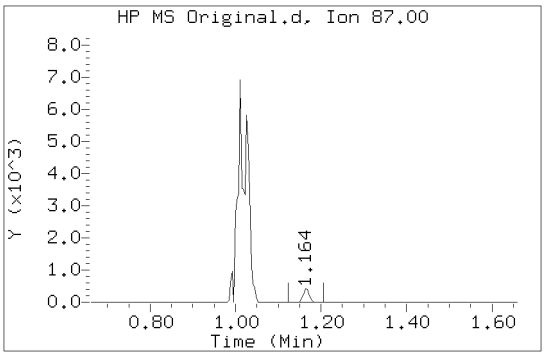

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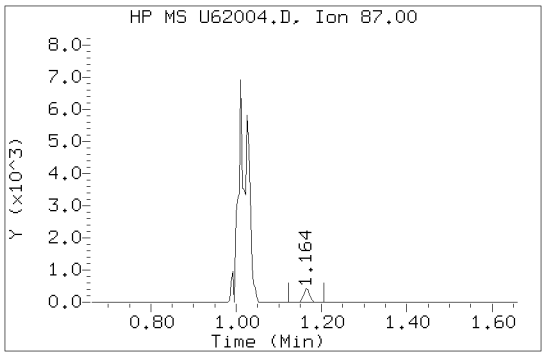

Vinyl Chloride (75-01-4)

Reason Code:

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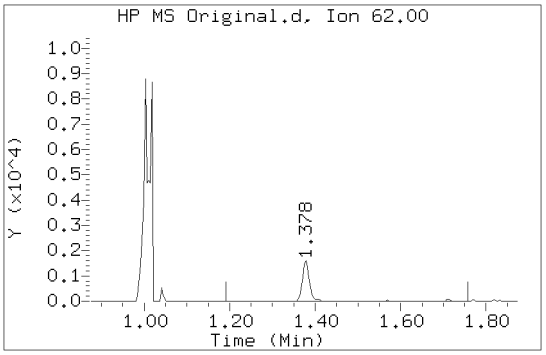

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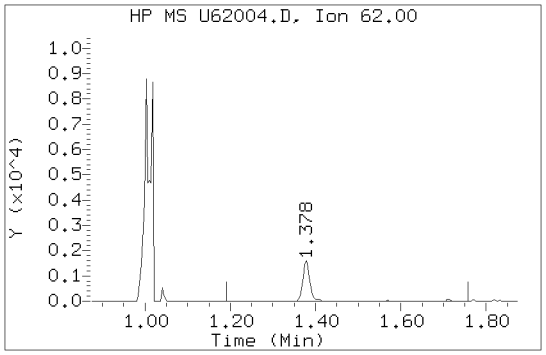

BEFORE
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383
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12:15
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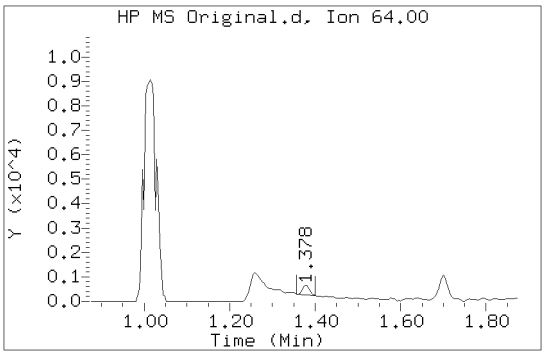

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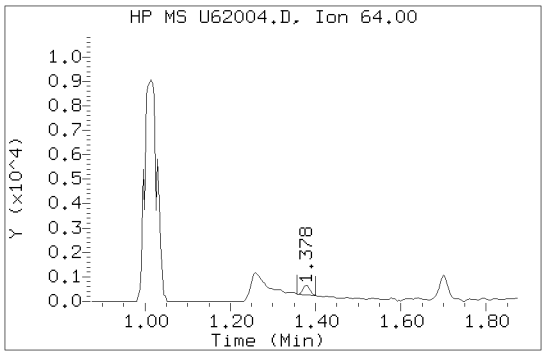

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Inj Date : 20-JUN-2024 12:06
InstruID : VOA9.i
LabSampID : VSTD001

Carbon Disulfide (75-15-0)

Reason Code:

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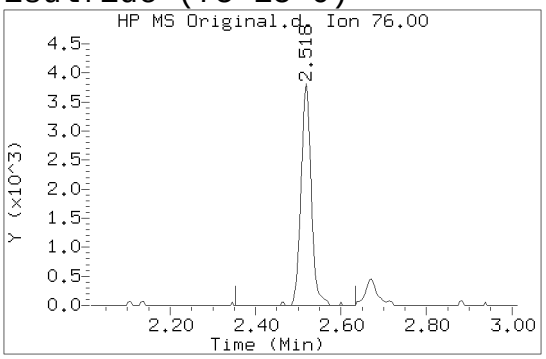

AFTER

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29-Jun-2024
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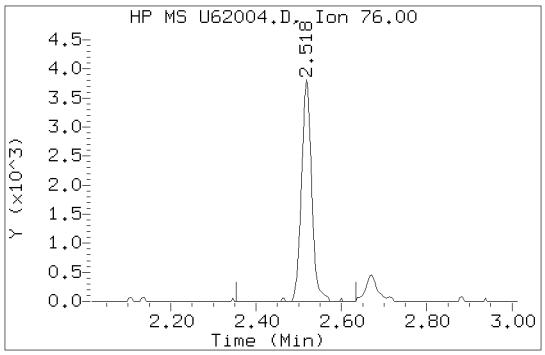

BEFORE

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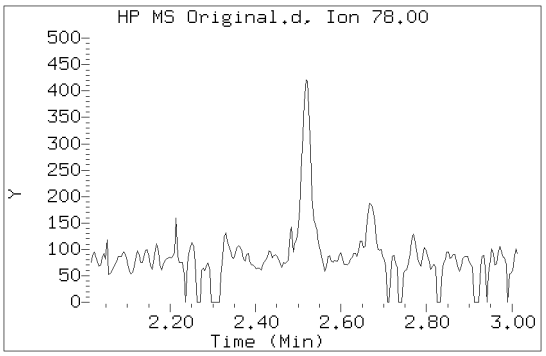

AFTER

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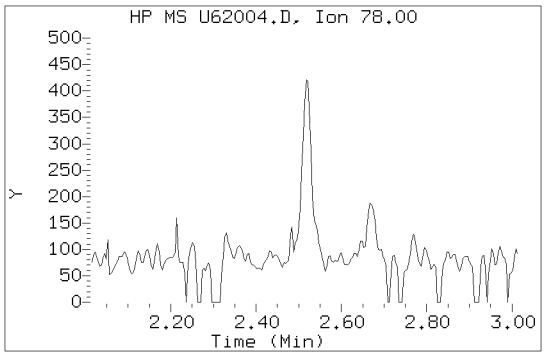

2-Butanone (78-93-3)

Reason Code:

BEFORE

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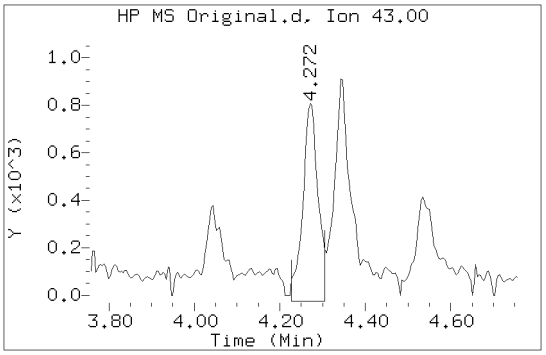

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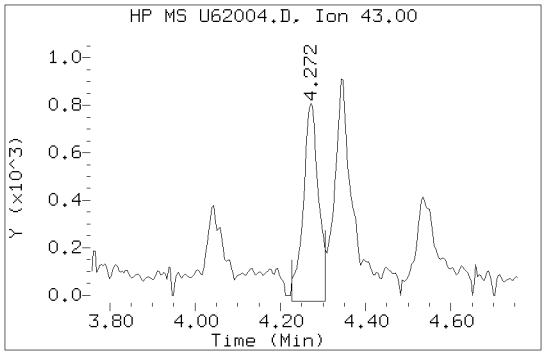

BEFORE

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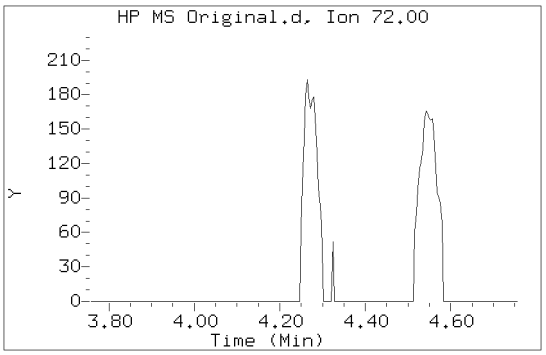

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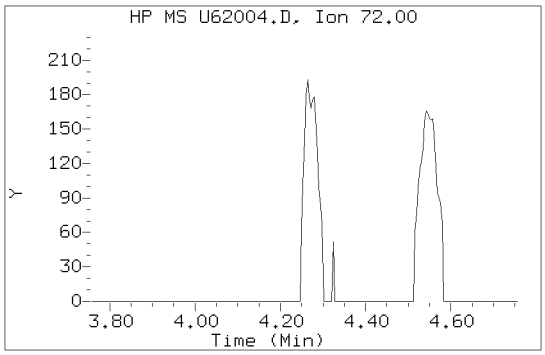

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Inj Date : 20-JUN-2024 12:06
InstruID : VOA9.i
LabSampID : VSTD001

2,2-Dichloropropane (594-20-7)

Reason Code:

BEFORE

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AREA
1823
HEIGHT
743
29-Jun-2024
12:15
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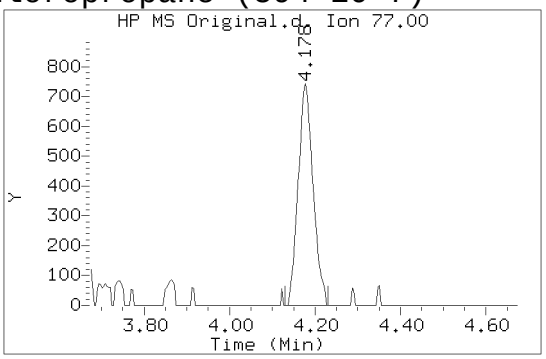
zaid



AFTER

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29-Jun-2024
12:15
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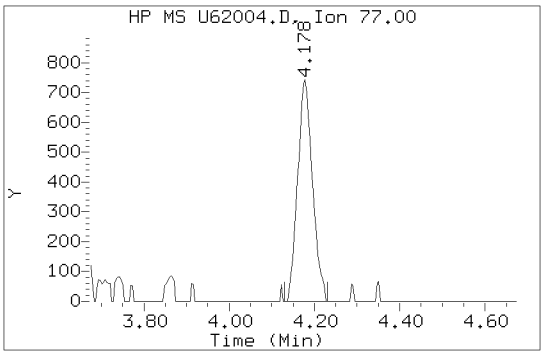

BEFORE

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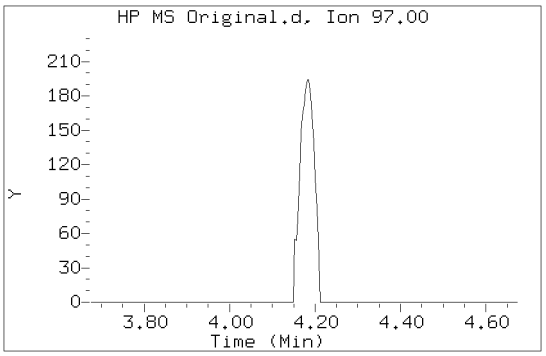

AFTER

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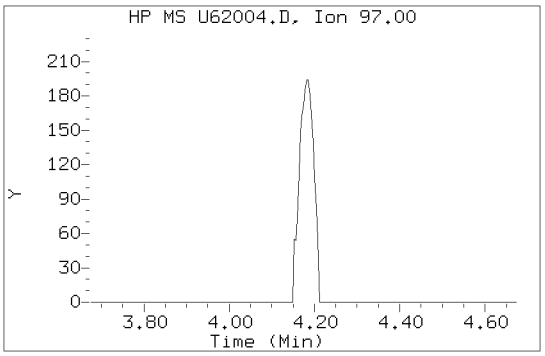

1,1-Dichloropropene (563-58-6)

Reason Code:

BEFORE

MASS
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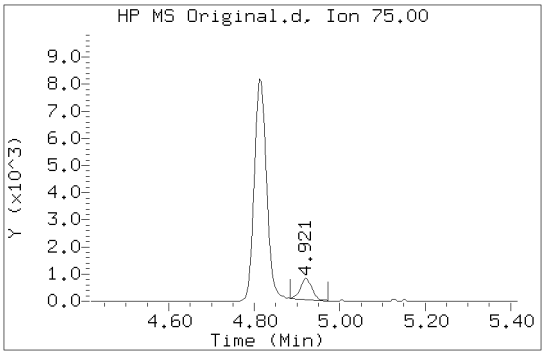
AREA
1570
HEIGHT
807
29-Jun-2024
12:15
s
zaid



AFTER

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12:15
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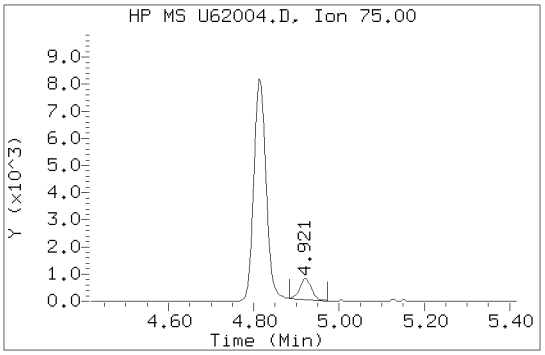

BEFORE

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29-Jun-2024
12:15
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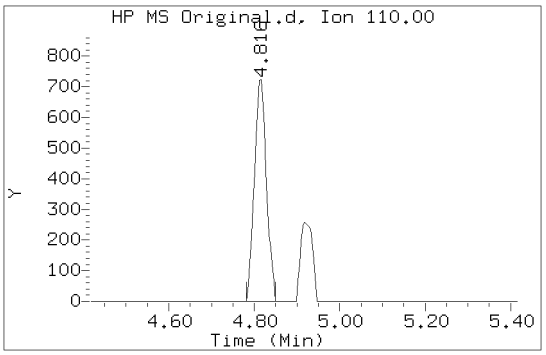

AFTER

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29-Jun-2024
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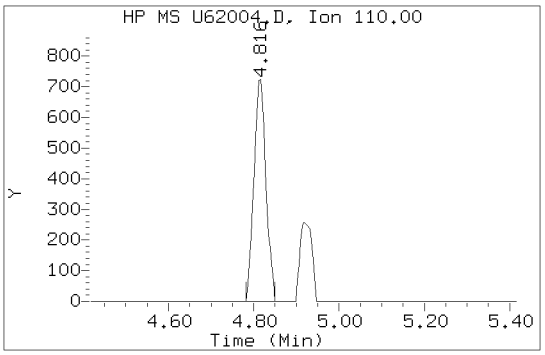

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Inj Date : 20-JUN-2024 12:06
InstruID : VOA9.i
LabSampID : VSTD001

1,1-Dichloropropene (563-58-6)

Reason Code:

BEFORE

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HEIGHT
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29-Jun-2024
12:15
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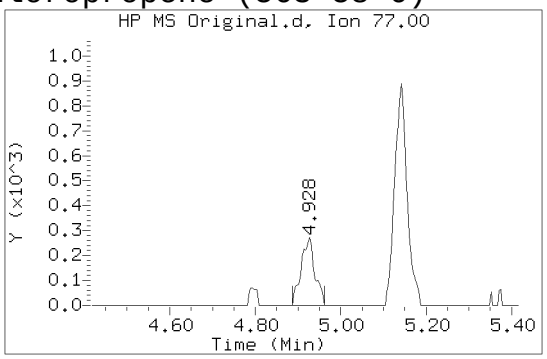

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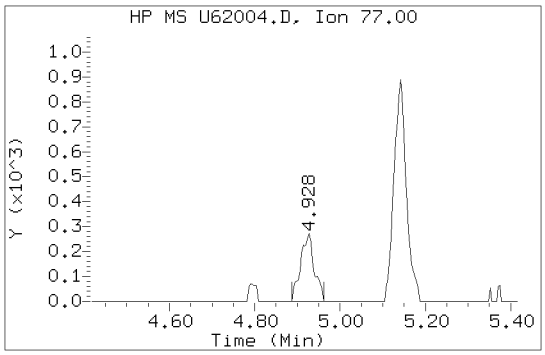

Carbon Tetrachloride (56-23-5)

Reason Code:

BEFORE

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AREA
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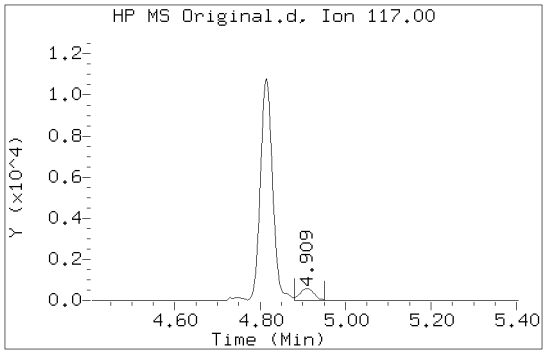
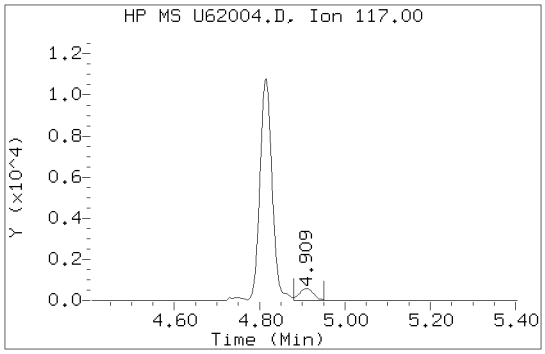
29-Jun-2024
12:15
s
zaid



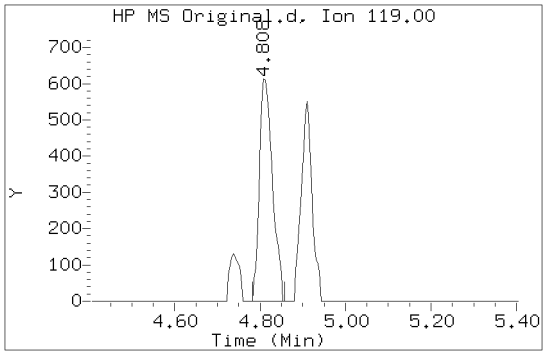
AFTER

MASS
117
AREA
1323
HEIGHT
565
29-Jun-2024
12:15
s
zaid



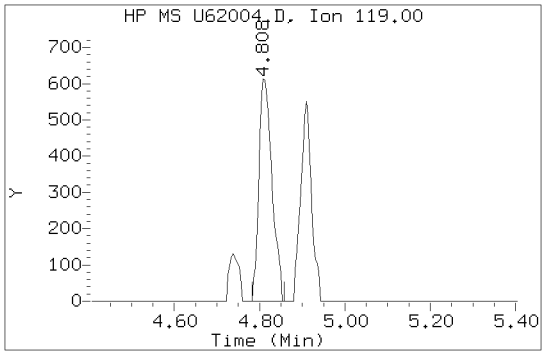
BEFORE

MASS
119
AREA
1306
HEIGHT
613
29-Jun-2024
12:15
s
zaid



AFTER

MASS
119
AREA
1306
HEIGHT
613
29-Jun-2024
12:15
s
zaid

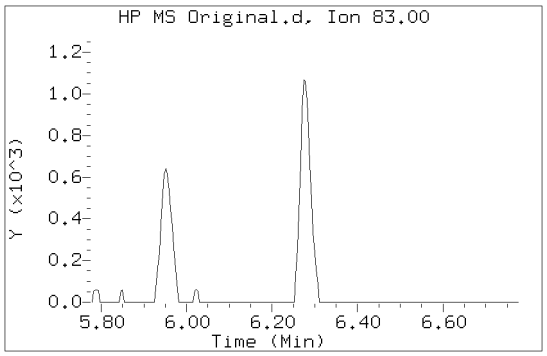


Bromodichloromethane (75-27-4)

Reason Code:

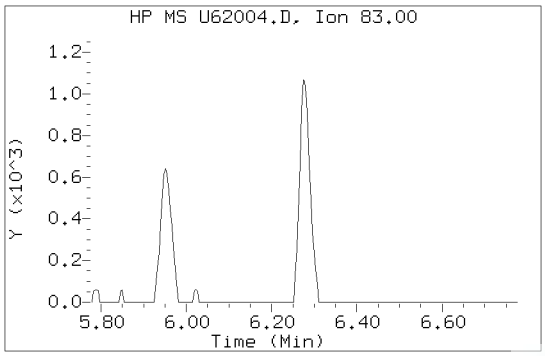
BEFORE

MASS
83
AREA
1865
HEIGHT
1067
29-Jun-2024
12:15
s
zaid



AFTER

MASS
83
AREA
1865
HEIGHT
1067
29-Jun-2024
12:15
s
zaid



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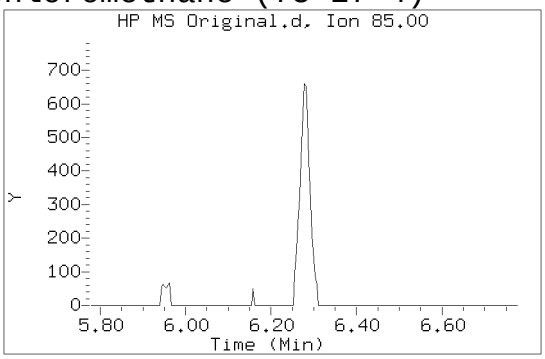
Inj Date : 20-JUN-2024 12:06
InstruID : VOA9.i
LabSampID : VSTD001

Bromodichloromethane (75-27-4)

Reason Code:

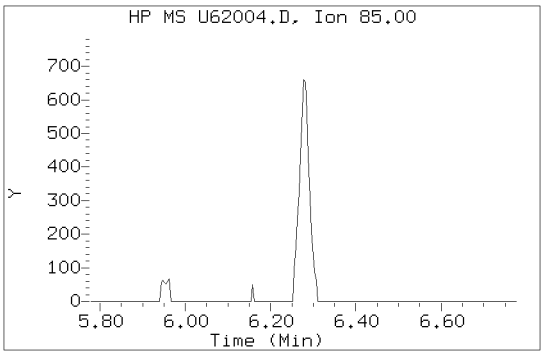
BEFORE

MASS
85
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



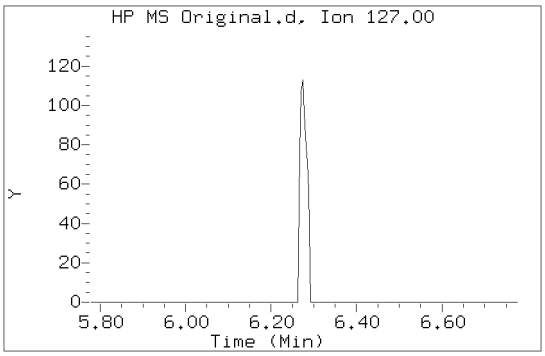
AFTER

MASS
85
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



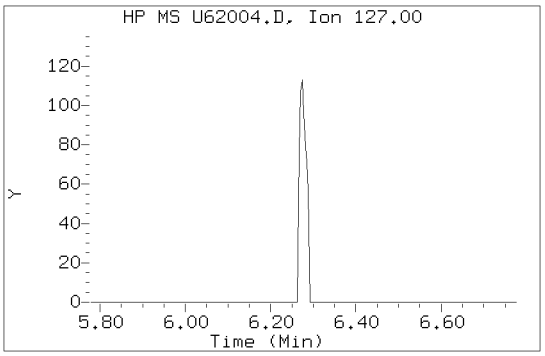
BEFORE

MASS
127
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
127
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid

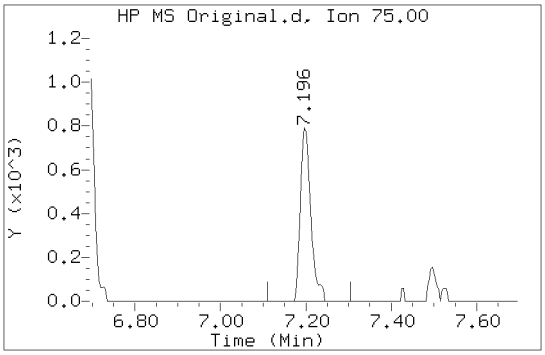


trans-1,3-Dichloropropene (10061-02-6)

Reason Code:

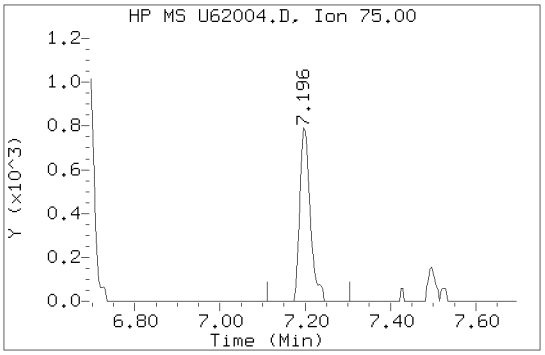
BEFORE

MASS
75
AREA
1381
HEIGHT
791
29-Jun-2024
12:15
s
zaid



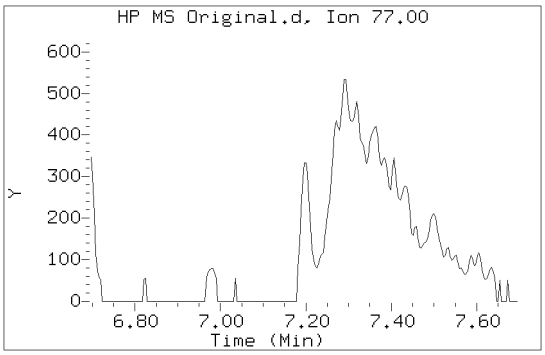
AFTER

MASS
75
AREA
1381
HEIGHT
791
29-Jun-2024
12:15
s
zaid



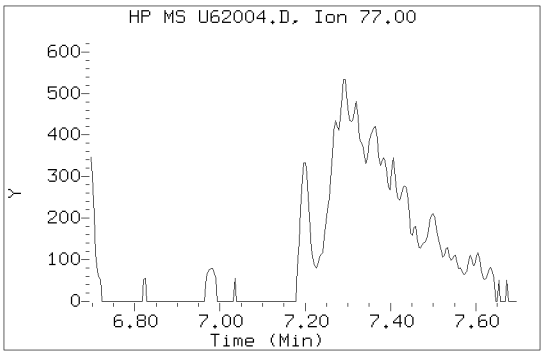
BEFORE

MASS
77
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
77
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



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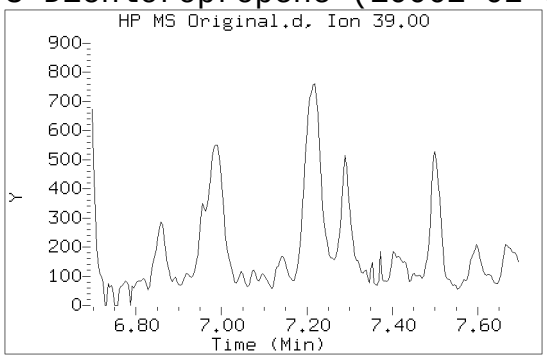
Inj Date : 20-JUN-2024 12:06
InstruID : VOA9.i
LabSampID : VSTD001

trans-1,3-Dichloropropene (10061-02-6)

Reason Code:

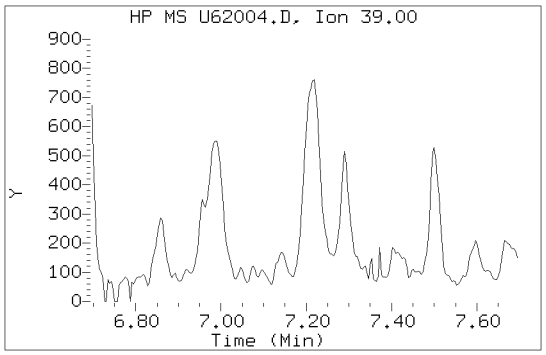
BEFORE

MASS
39
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
39
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid

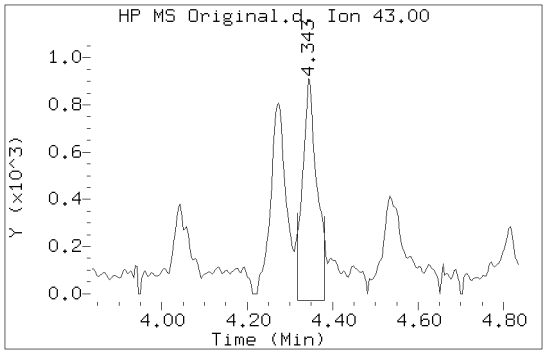


Vinyl Acetate (108-05-4)

Reason Code:

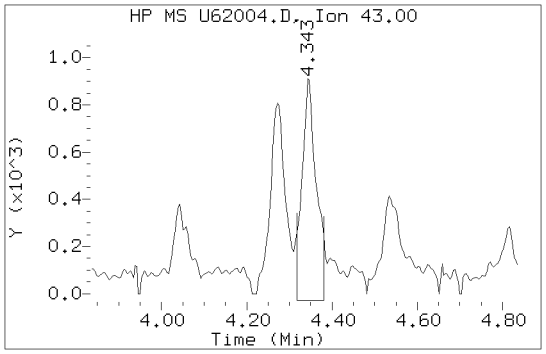
BEFORE

MASS
43
AREA
2234
HEIGHT
939
29-Jun-2024
12:15
s
zaid



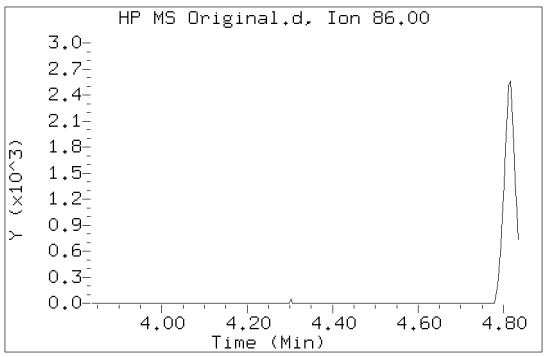
AFTER

MASS
43
AREA
2234
HEIGHT
939
29-Jun-2024
12:15
s
zaid



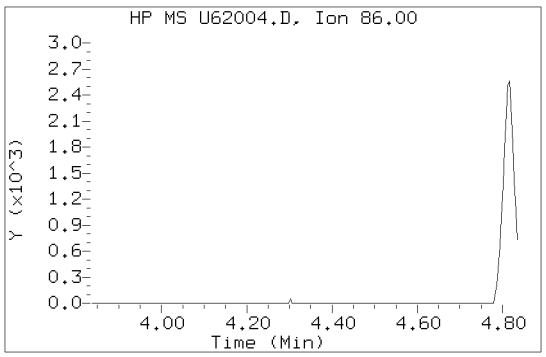
BEFORE

MASS
86
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
86
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid

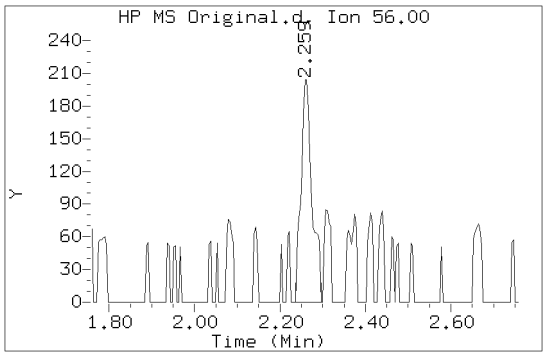


Acrolein (107-02-8)

Reason Code:

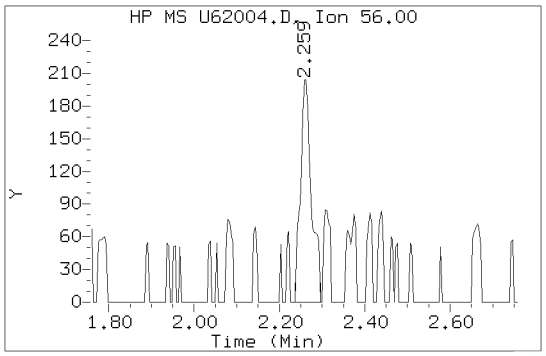
BEFORE

MASS
56
AREA
371
HEIGHT
204
29-Jun-2024
12:15
s
zaid



AFTER

MASS
56
AREA
371
HEIGHT
204
29-Jun-2024
12:15
s
zaid



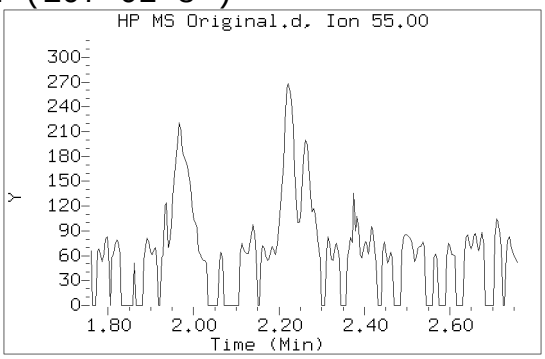
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62004.D
Inj Date : 20-JUN-2024 12:06
InstruID : VOA9.i
LabSampID : VSTD001

Acrolein (107-02-8)

Reason Code:

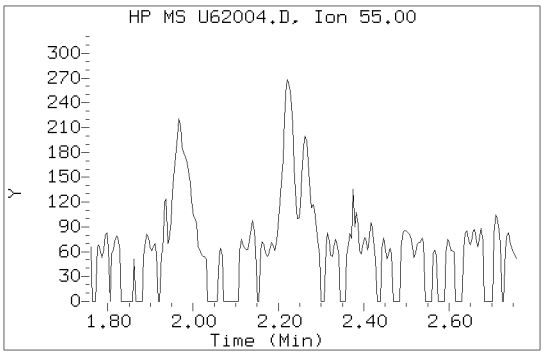
BEFORE

MASS
55
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
55
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid

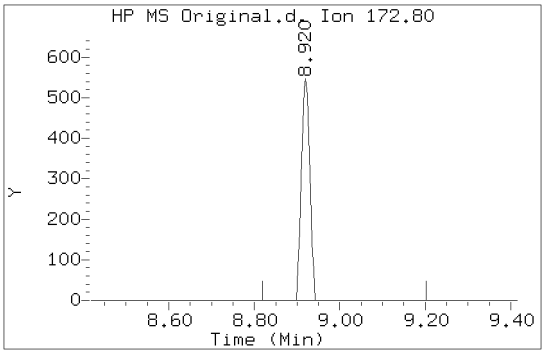


Bromoform (75-25-2)

Reason Code:

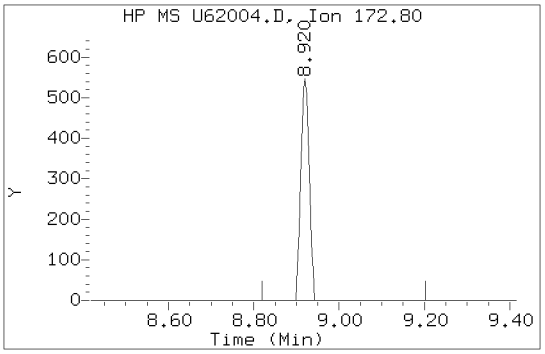
BEFORE

MASS
172.8
AREA
774
HEIGHT
547
29-Jun-2024
12:15
s
zaid



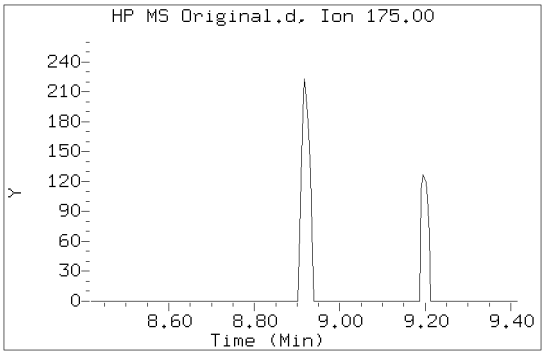
AFTER

MASS
172.8
AREA
774
HEIGHT
547
29-Jun-2024
12:15
s
zaid



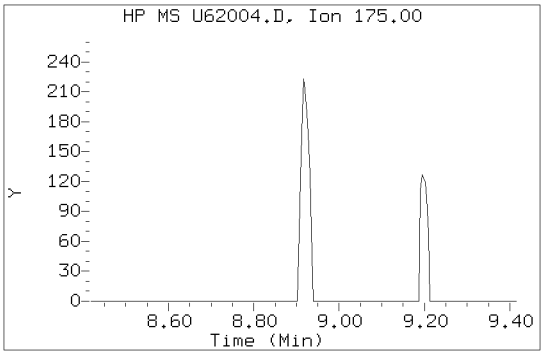
BEFORE

MASS
175
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



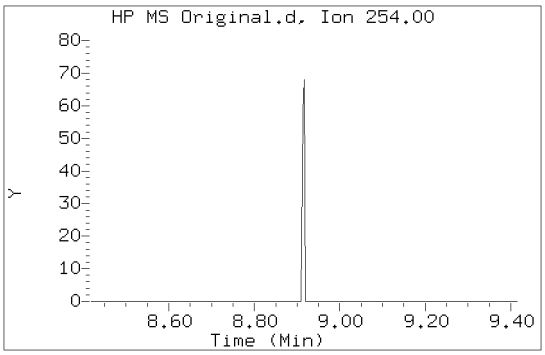
AFTER

MASS
175
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



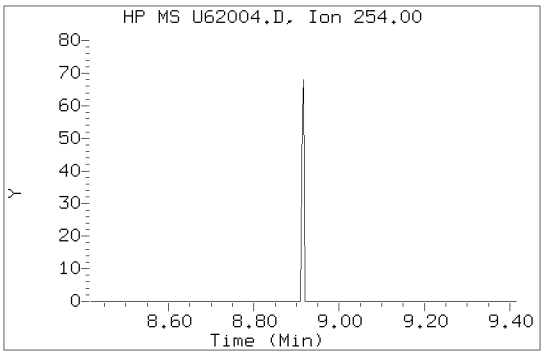
BEFORE

MASS
254
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
254
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid

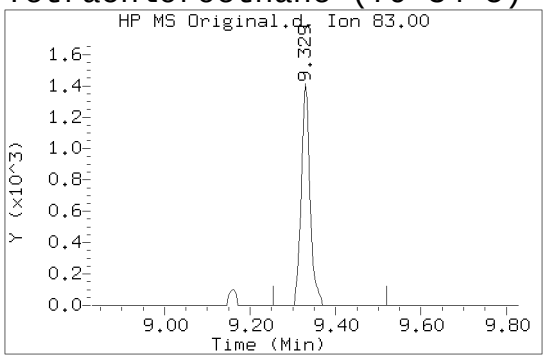


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62004.D
Inj Date : 20-JUN-2024 12:06
InstruID : VOA9.i
LabSampID : VSTD001

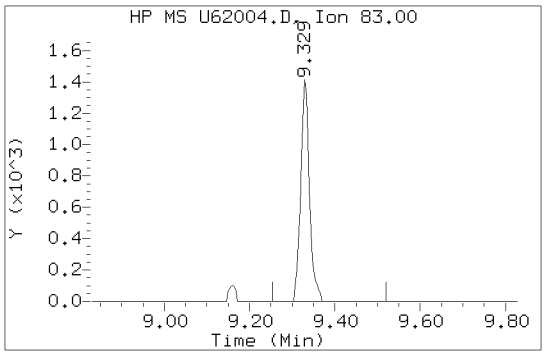
1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

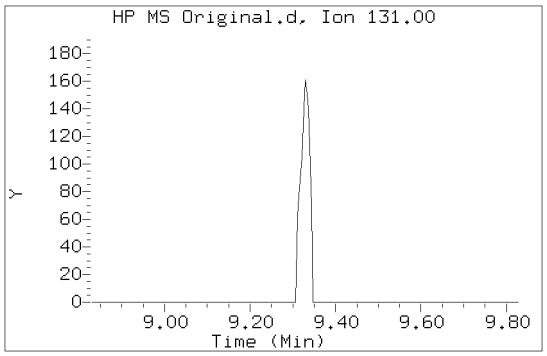
BEFORE
MASS
83
AREA
2063
HEIGHT
1414
29-Jun-2024
12:15
s
zaid



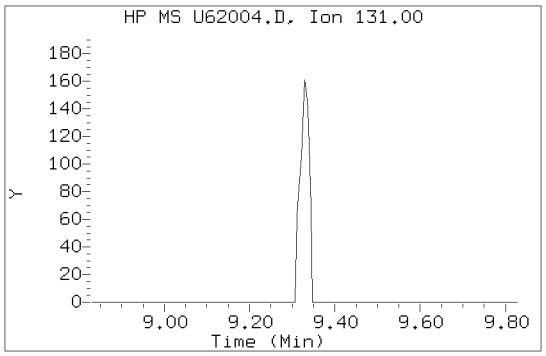
AFTER
MASS
83
AREA
2063
HEIGHT
1414
29-Jun-2024
12:15
s
zaid



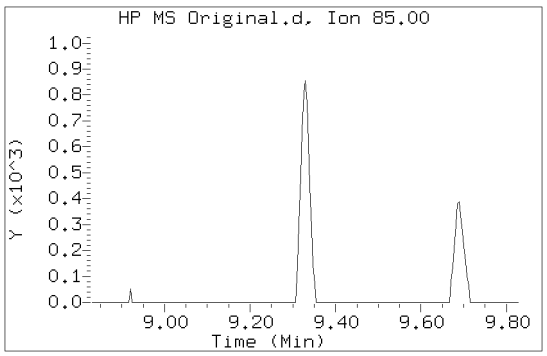
BEFORE
MASS
131
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



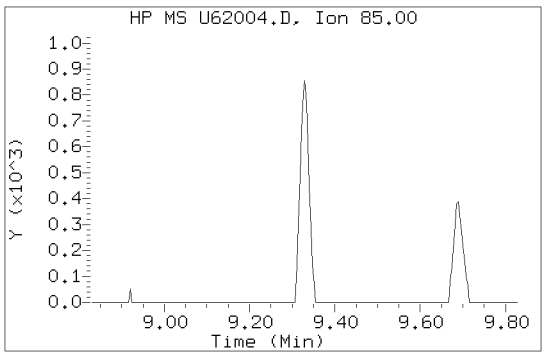
AFTER
MASS
131
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



BEFORE
MASS
85
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



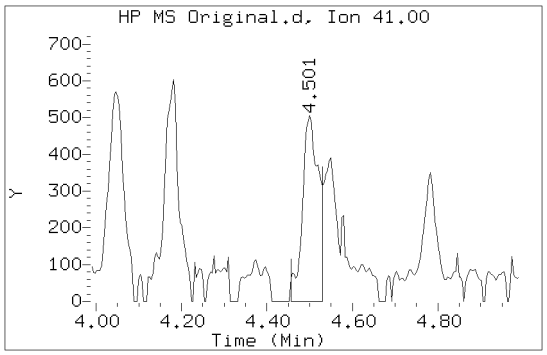
AFTER
MASS
85
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



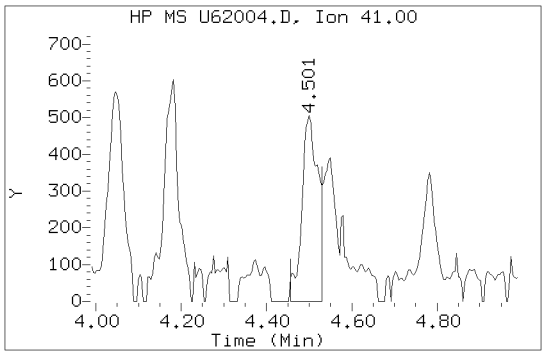
Methacrylonitrile (126-98-7)

Reason Code:

BEFORE
MASS
41
AREA
1366
HEIGHT
505
29-Jun-2024
12:15
s
zaid



AFTER
MASS
41
AREA
1366
HEIGHT
505
29-Jun-2024
12:15
s
zaid



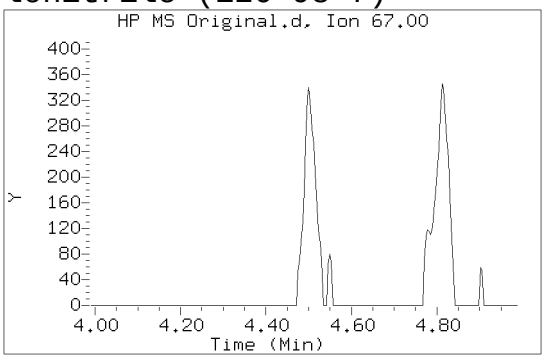
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62004.D
Inj Date : 20-JUN-2024 12:06
InstruID : VOA9.i
LabSampID : VSTD001

Methacrylonitrile (126-98-7)

Reason Code:

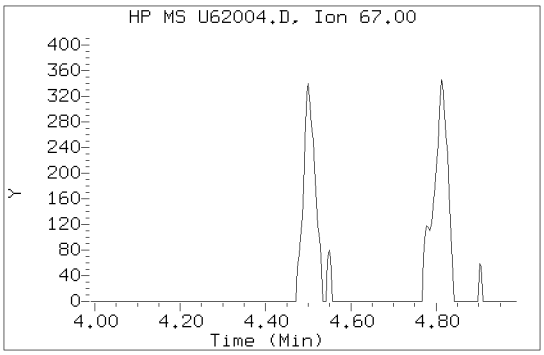
BEFORE

MASS
67
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



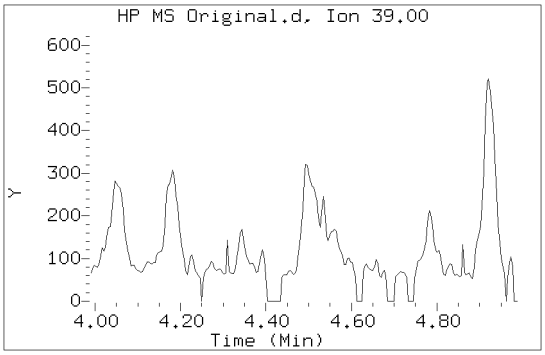
AFTER

MASS
67
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



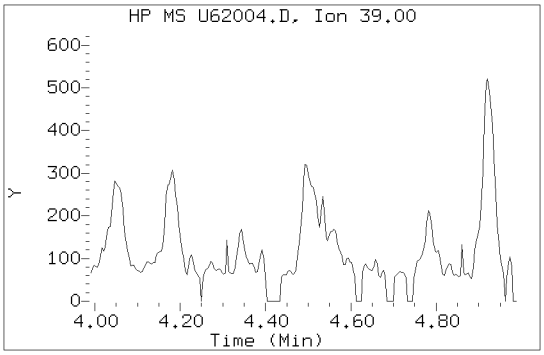
BEFORE

MASS
39
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
39
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid

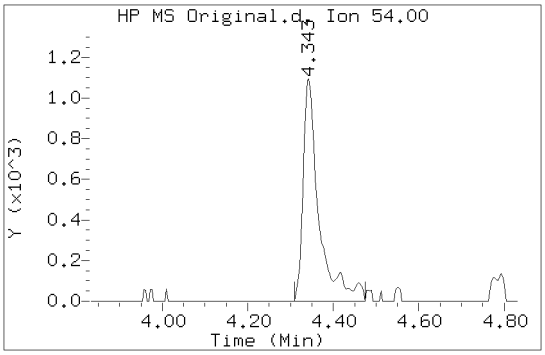


Propionitrile (107-12-0)

Reason Code:

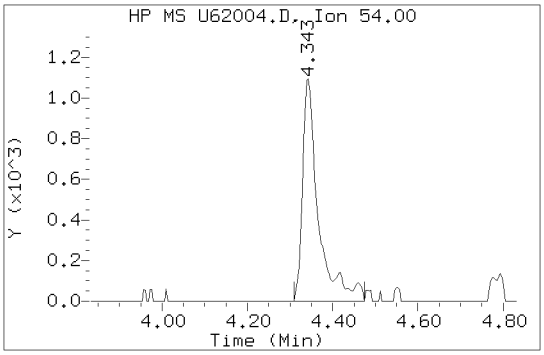
BEFORE

MASS
54
AREA
2871
HEIGHT
1094
29-Jun-2024
12:15
s
zaid



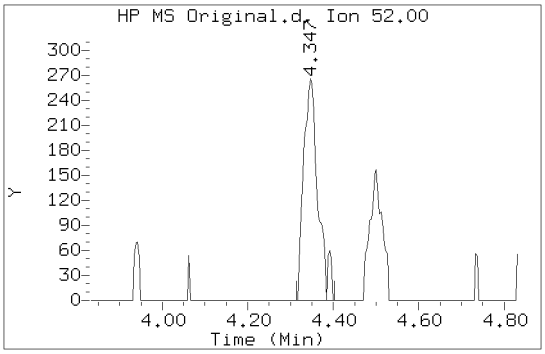
AFTER

MASS
54
AREA
2871
HEIGHT
1094
29-Jun-2024
12:15
s
zaid



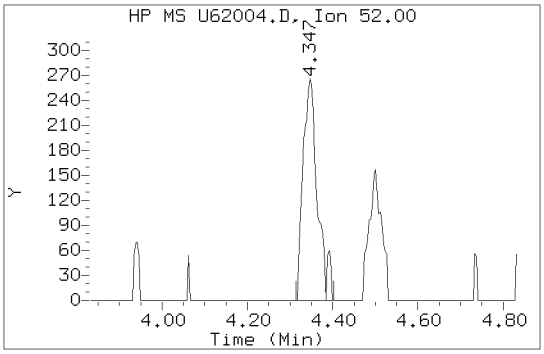
BEFORE

MASS
52
AREA
637
HEIGHT
266
29-Jun-2024
12:15
s
zaid



AFTER

MASS
52
AREA
637
HEIGHT
266
29-Jun-2024
12:15
s
zaid



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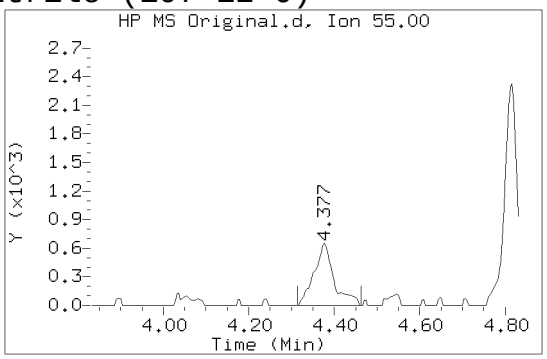
Inj Date : 20-JUN-2024 12:06
InstruID : VOA9.i
LabSampID : VSTD001

Propionitrile (107-12-0)

Reason Code:

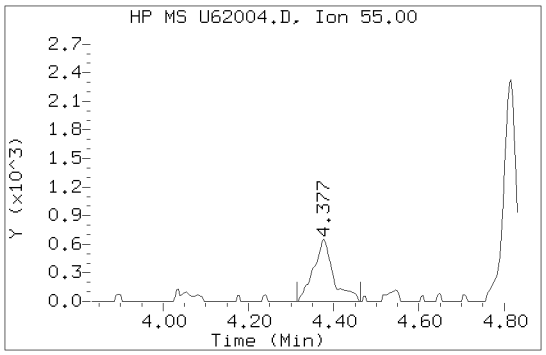
BEFORE

MASS
55
AREA
2106
HEIGHT
650
29-Jun-2024
12:15
s
zaid



AFTER

MASS
55
AREA
2106
HEIGHT
650
29-Jun-2024
12:15
s
zaid

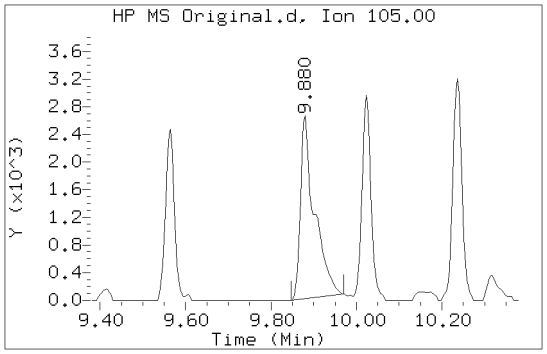


1,2,4-Trimethylbenzene (95-63-6)

Reason Code:

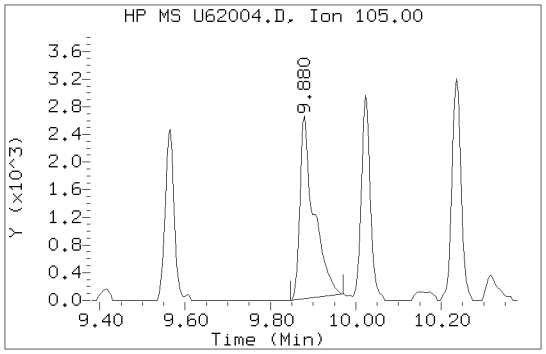
BEFORE

MASS
105
AREA
6112
HEIGHT
2642
29-Jun-2024
12:15
s
zaid



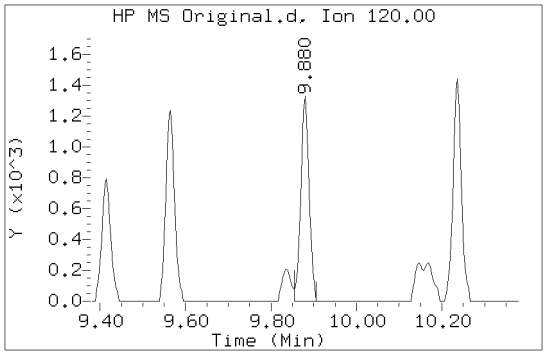
AFTER

MASS
105
AREA
6112
HEIGHT
2642
29-Jun-2024
12:15
s
zaid



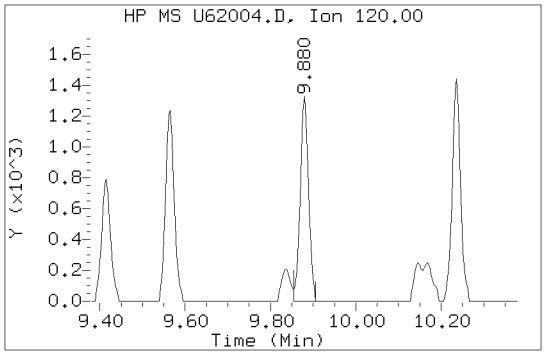
BEFORE

MASS
120
AREA
1844
HEIGHT
1329
29-Jun-2024
12:15
s
zaid



AFTER

MASS
120
AREA
1844
HEIGHT
1329
29-Jun-2024
12:15
s
zaid

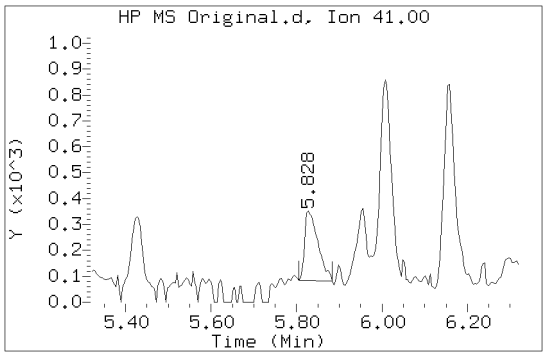


Methyl Methacrylate (80-62-6)

Reason Code:

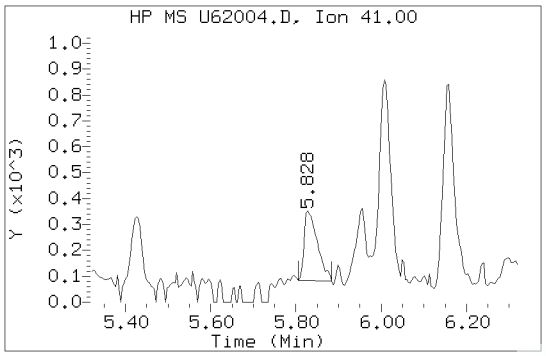
BEFORE

MASS
41
AREA
587
HEIGHT
268
29-Jun-2024
12:15
s
zaid



AFTER

MASS
41
AREA
587
HEIGHT
268
29-Jun-2024
12:15
s
zaid



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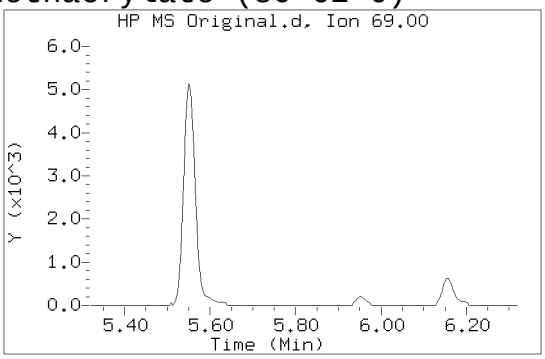
Inj Date : 20-JUN-2024 12:06
InstruID : VOA9.i
LabSampID : VSTD001

Methyl Methacrylate (80-62-6)

Reason Code:

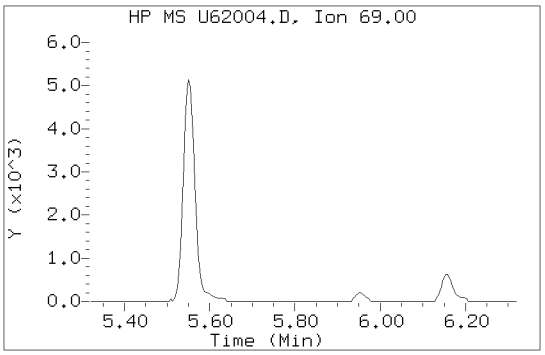
BEFORE

MASS
69
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



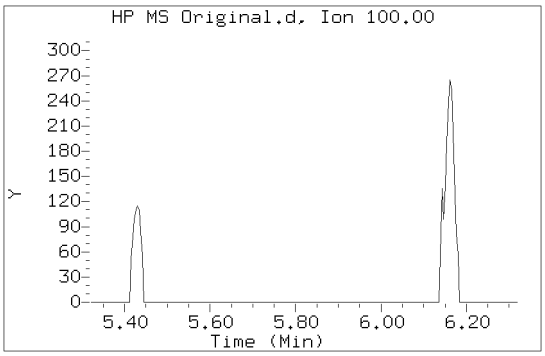
AFTER

MASS
69
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



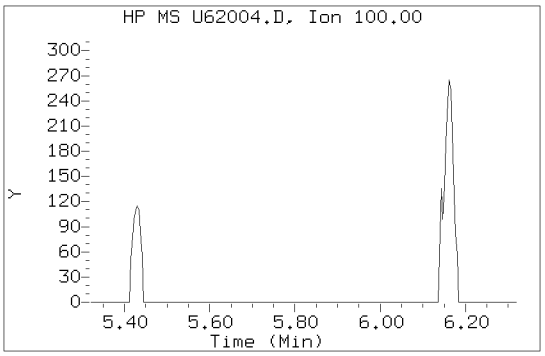
BEFORE

MASS
100
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
100
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid

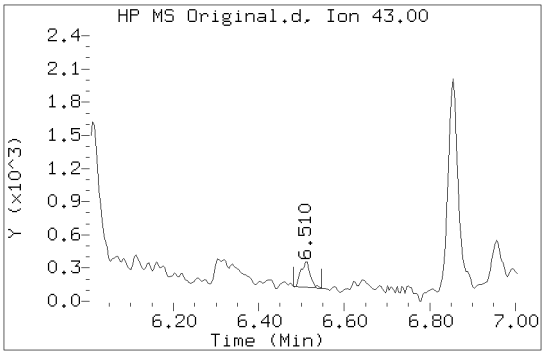


2-Nitropropane (79-46-9)

Reason Code:

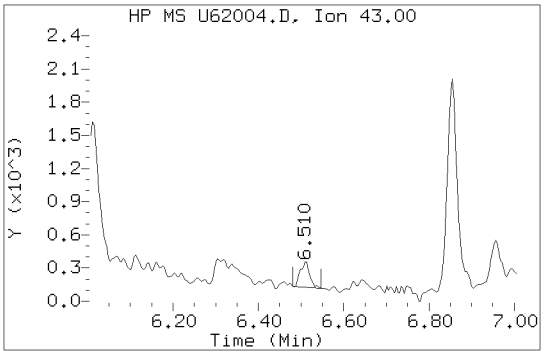
BEFORE

MASS
43
AREA
357
HEIGHT
231
29-Jun-2024
12:15
s
zaid



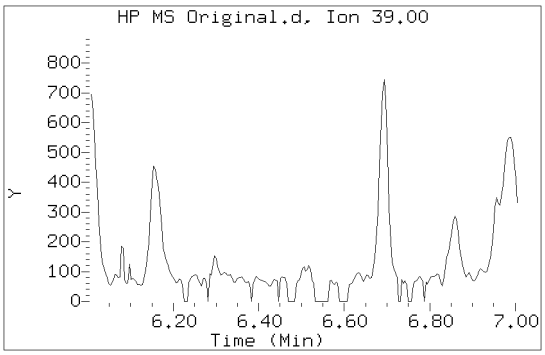
AFTER

MASS
43
AREA
357
HEIGHT
231
29-Jun-2024
12:15
s
zaid



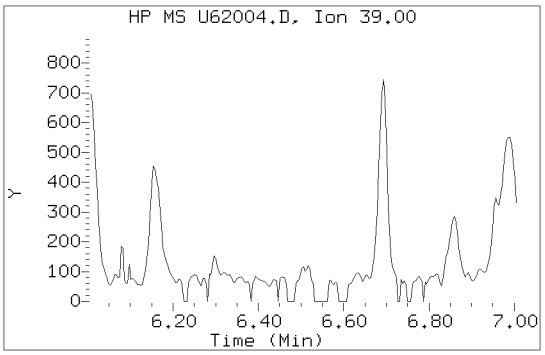
BEFORE

MASS
39
AREA
1379
HEIGHT
471
29-Jun-2024
12:15
s
zaid



AFTER

MASS
39
AREA
1379
HEIGHT
471
29-Jun-2024
12:15
s
zaid

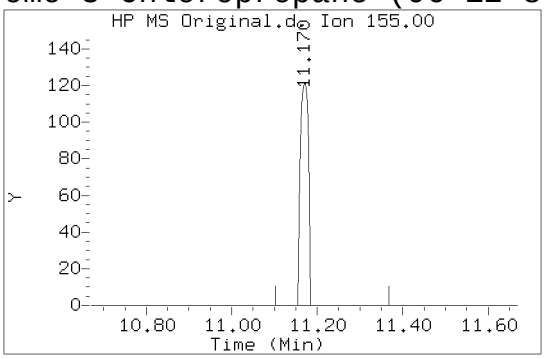


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62004.D
Inj Date : 20-JUN-2024 12:06
InstruID : VOA9.i
LabSampID : VSTD001

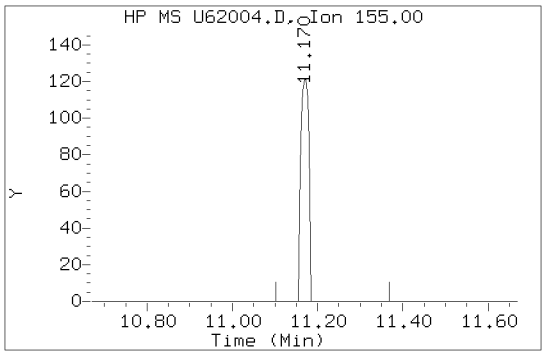
1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

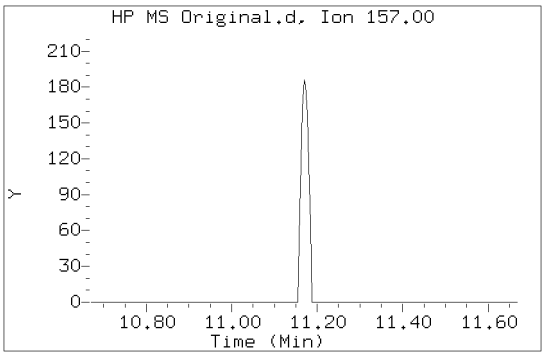
BEFORE
MASS
155
AREA
163
HEIGHT
121
29-Jun-2024
12:15
s
zaid



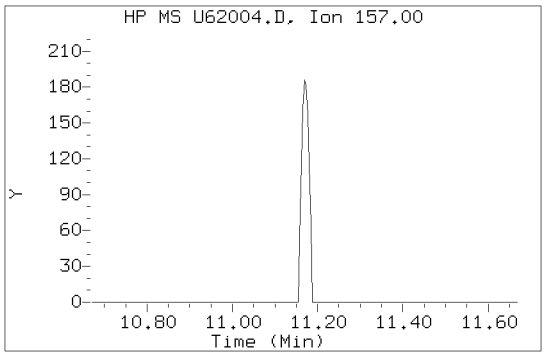
AFTER
MASS
155
AREA
163
HEIGHT
121
29-Jun-2024
12:15
s
zaid



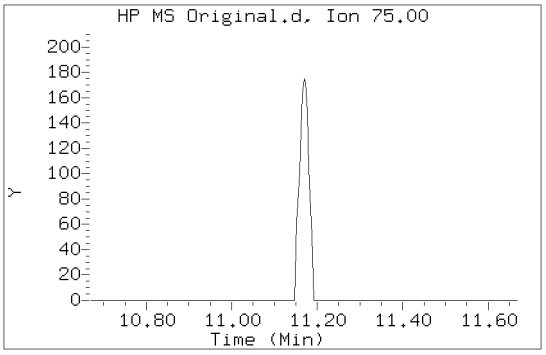
BEFORE
MASS
157
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



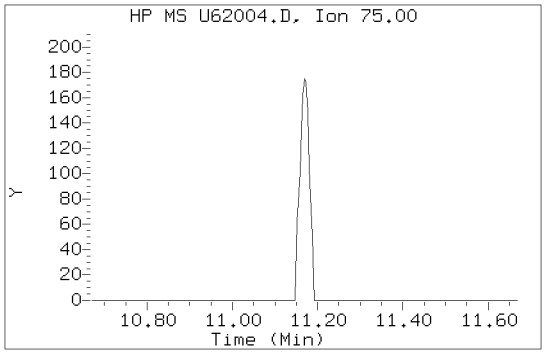
AFTER
MASS
157
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



BEFORE
MASS
75
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



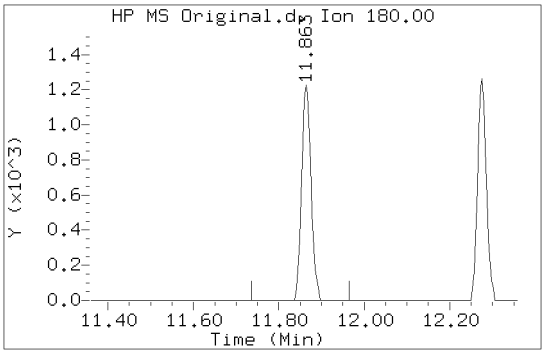
AFTER
MASS
75
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



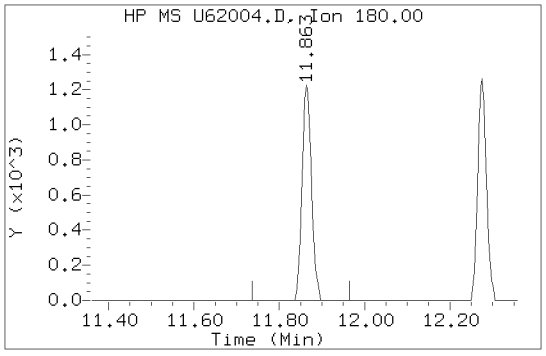
1,2,4-Trichlorobenzene (120-82-1)

Reason Code:

BEFORE
MASS
180
AREA
1929
HEIGHT
1227
29-Jun-2024
12:15
s
zaid



AFTER
MASS
180
AREA
1929
HEIGHT
1227
29-Jun-2024
12:15
s
zaid

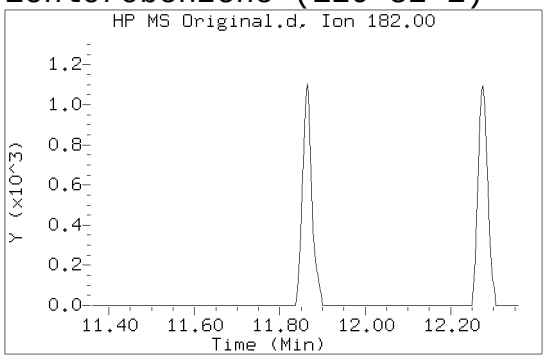


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62004.D
Inj Date : 20-JUN-2024 12:06
InstruID : VOA9.i
LabSampID : VSTD001

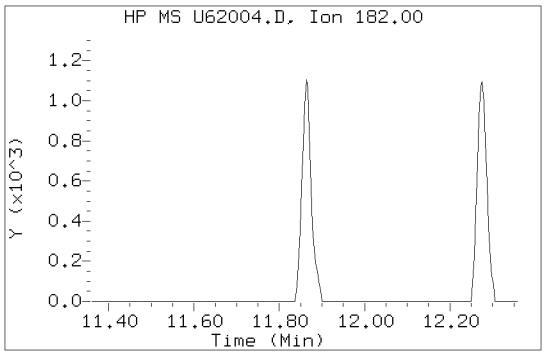
1,2,4-Trichlorobenzene (120-82-1)

Reason Code:

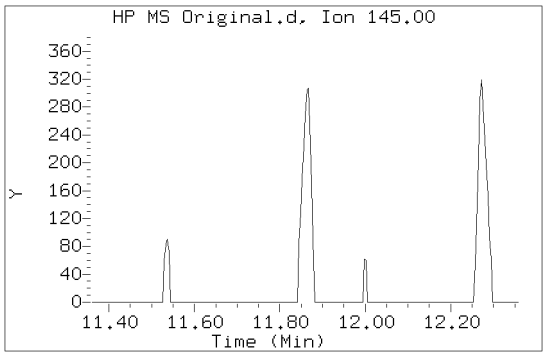
BEFORE
MASS
182
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



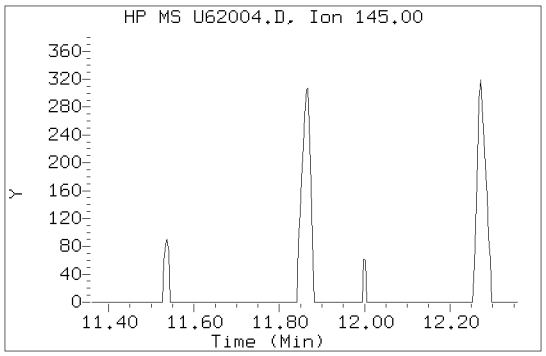
AFTER
MASS
182
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



BEFORE
MASS
145
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



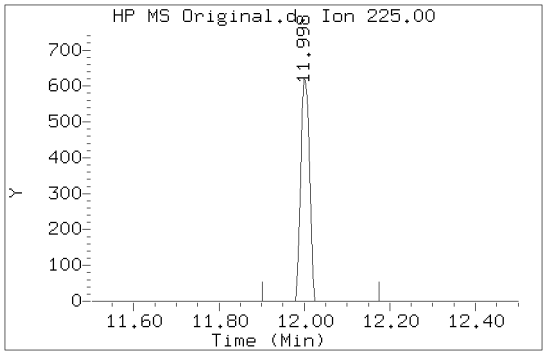
AFTER
MASS
145
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



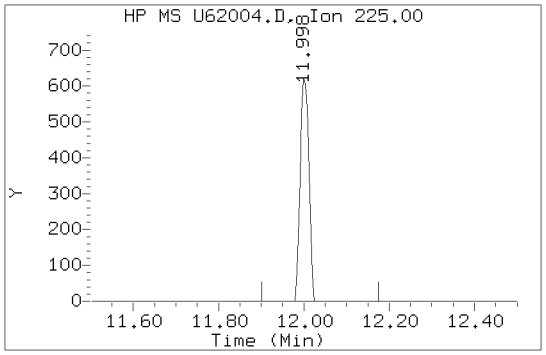
Hexachlorobutadiene (87-68-3)

Reason Code:

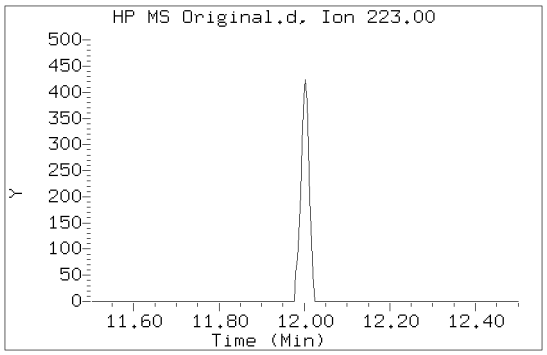
BEFORE
MASS
225
AREA
909
HEIGHT
620
29-Jun-2024
12:15
s
zaid



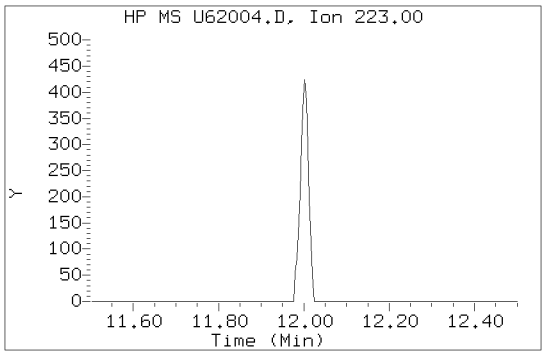
AFTER
MASS
225
AREA
909
HEIGHT
620
29-Jun-2024
12:15
s
zaid



BEFORE
MASS
223
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER
MASS
223
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



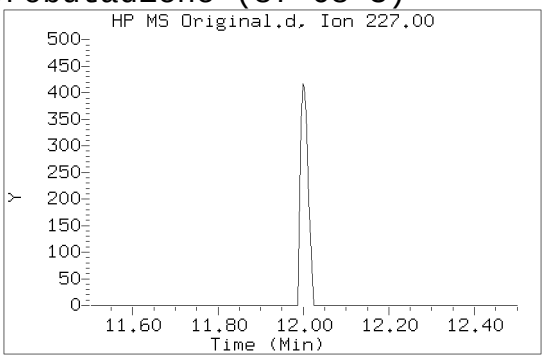
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62004.D
Inj Date : 20-JUN-2024 12:06
InstruID : VOA9.i
LabSampID : VSTD001

Hexachlorobutadiene (87-68-3)

Reason Code:

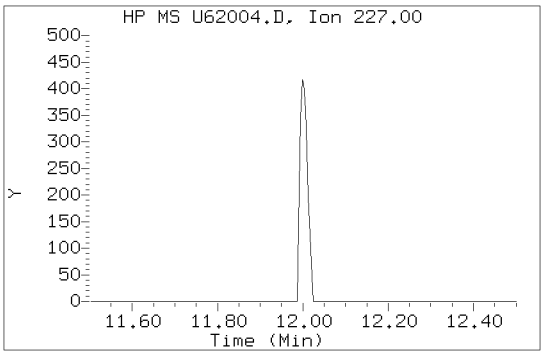
BEFORE

MASS
227
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
227
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid

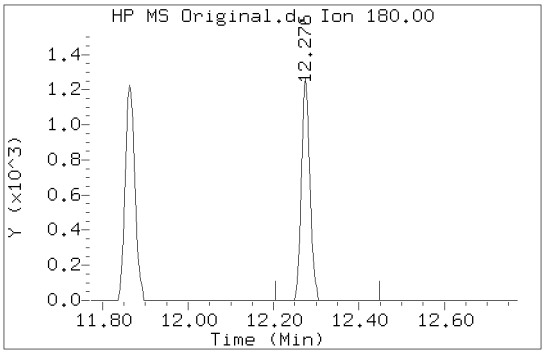


1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

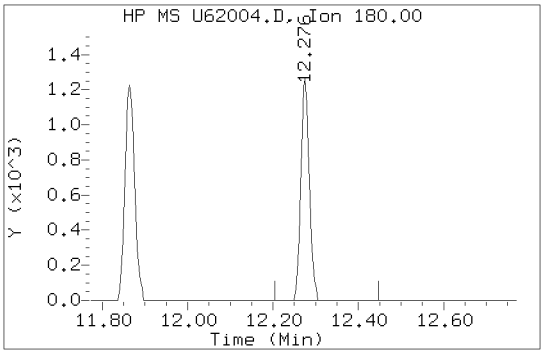
BEFORE

MASS
180
AREA
1793
HEIGHT
1263
29-Jun-2024
12:15
s
zaid



AFTER

MASS
180
AREA
1793
HEIGHT
1263
29-Jun-2024
12:15
s
zaid



BEFORE

MASS
182
AREA
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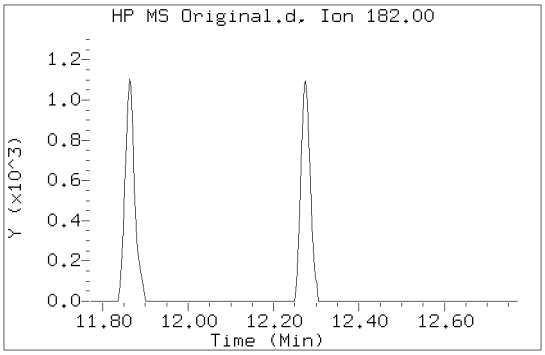
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
182
AREA
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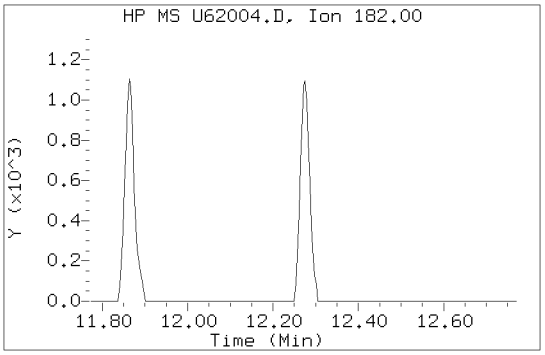
HEIGHT
0
29-Jun-2024
12:15
s
zaid



BEFORE

MASS
145
AREA
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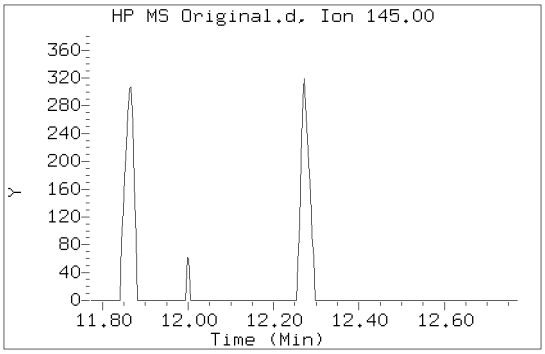
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
145
AREA
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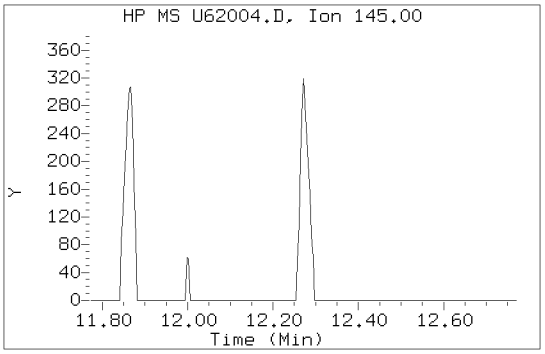
HEIGHT
0
29-Jun-2024
12:15
s
zaid



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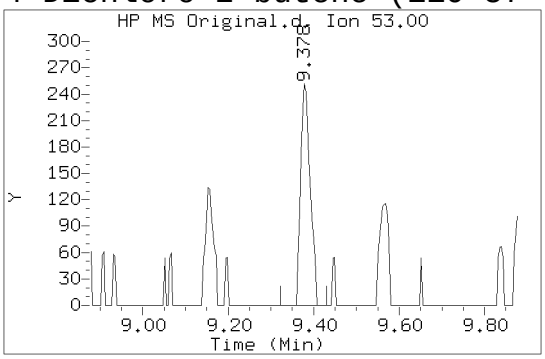
Inj Date : 20-JUN-2024 12:06
InstruID : VOA9.i
LabSampID : VSTD001

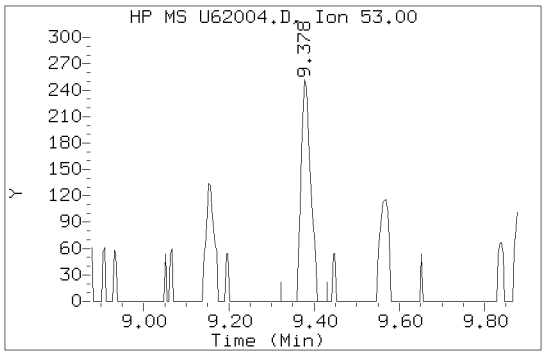
trans-1,4-Dichloro-2-butene (110-57-6)

BEFORE
MASS
53
AREA
399
HEIGHT
252
29-Jun-2024
12:15
s
zaid



Reason Code:

AFTER
MASS
53
AREA
399
HEIGHT
252
29-Jun-2024
12:15
s
zaid



BEFORE
MASS
75
AREA
0
HEIGHT
0
29-Jun-2024
12:15
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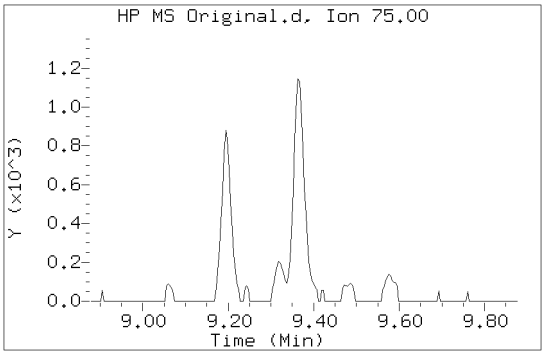
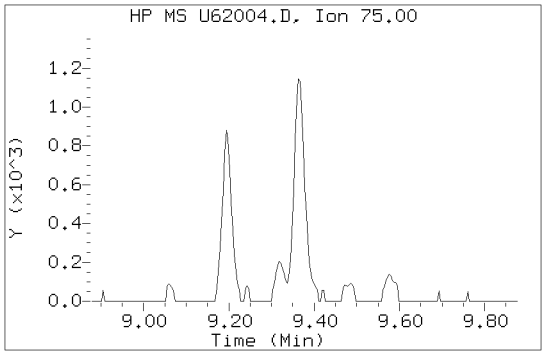
zaid

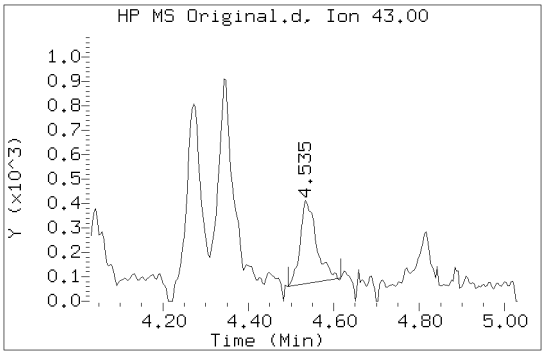


AFTER
MASS
75
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



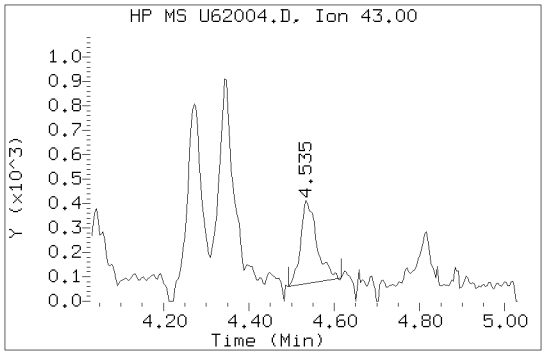
Ethyl Acetate (141-78-6)

BEFORE
MASS
43
AREA
903
HEIGHT
341
29-Jun-2024
12:15
s
zaid

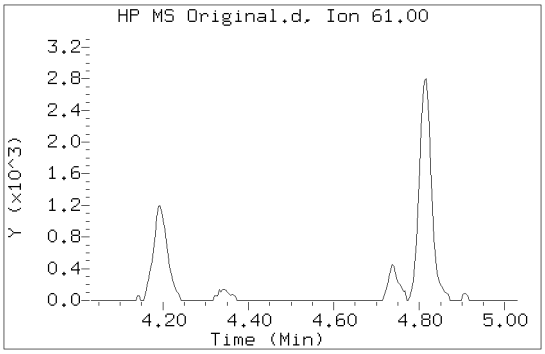


Reason Code:

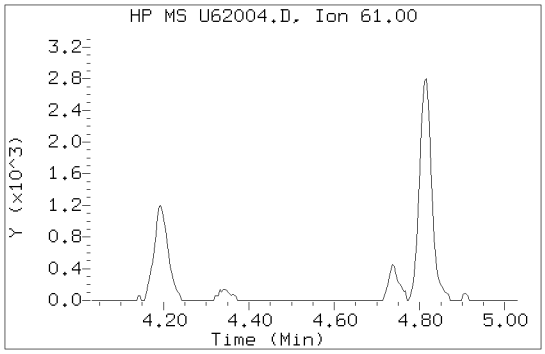
AFTER
MASS
43
AREA
903
HEIGHT
341
29-Jun-2024
12:15
s
zaid



BEFORE
MASS
61
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER
MASS
61
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



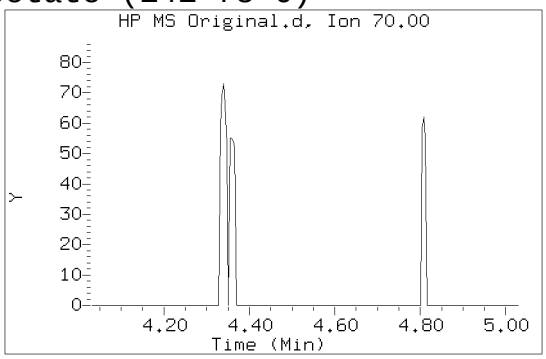
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62004.D
Inj Date : 20-JUN-2024 12:06
InstruID : VOA9.i
LabSampID : VSTD001

Ethyl Acetate (141-78-6)

Reason Code:

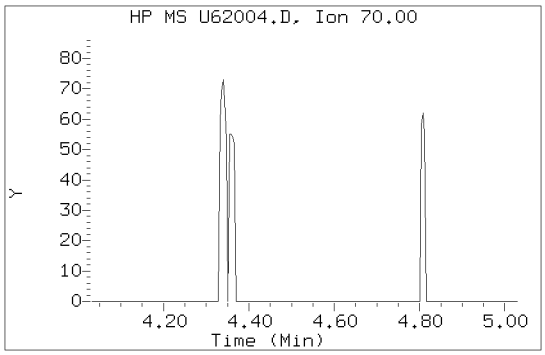
BEFORE

MASS
70
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
70
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid

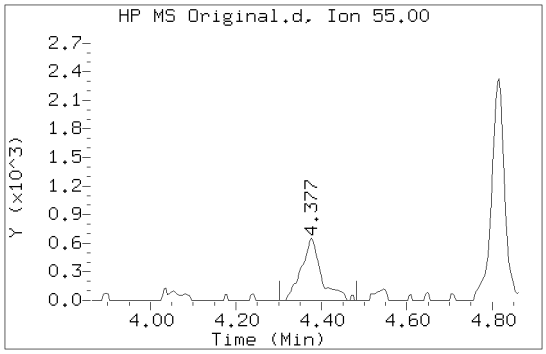


Methyl Acrylate (96-33-3)

Reason Code:

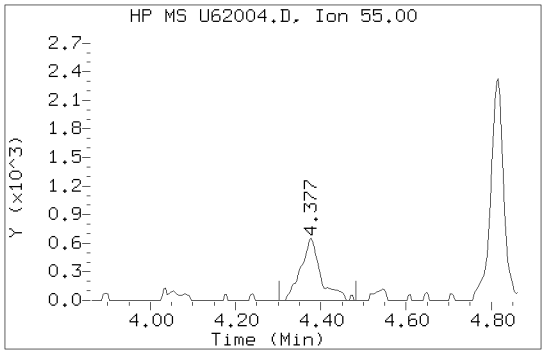
BEFORE

MASS
55
AREA
2131
HEIGHT
650
29-Jun-2024
12:15
s
zaid



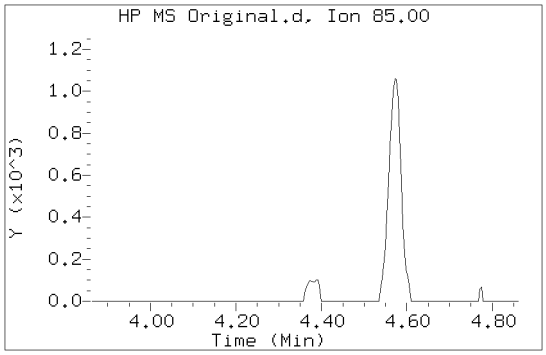
AFTER

MASS
55
AREA
2131
HEIGHT
650
29-Jun-2024
12:15
s
zaid



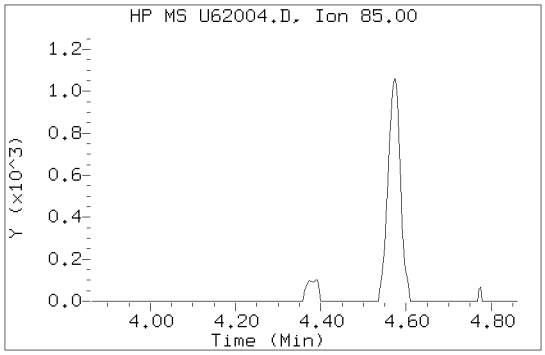
BEFORE

MASS
85
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
85
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid

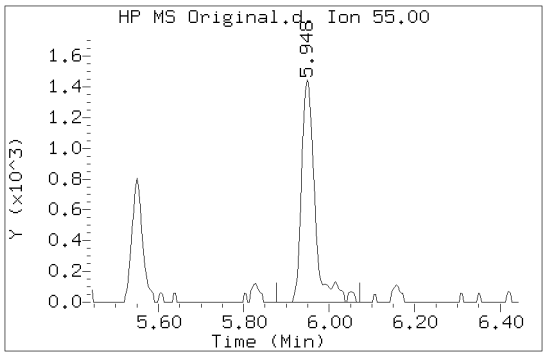


Ethyl Acrylate (140-88-5)

Reason Code:

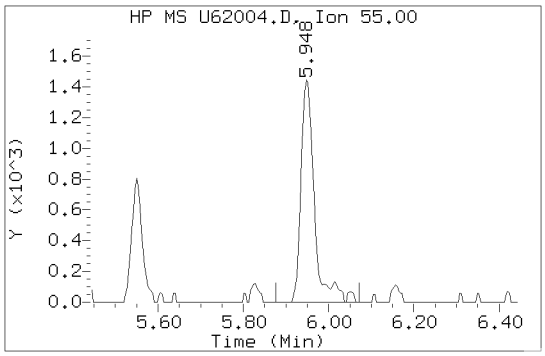
BEFORE

MASS
55
AREA
3253
HEIGHT
1445
29-Jun-2024
12:15
s
zaid



AFTER

MASS
55
AREA
3253
HEIGHT
1445
29-Jun-2024
12:15
s
zaid



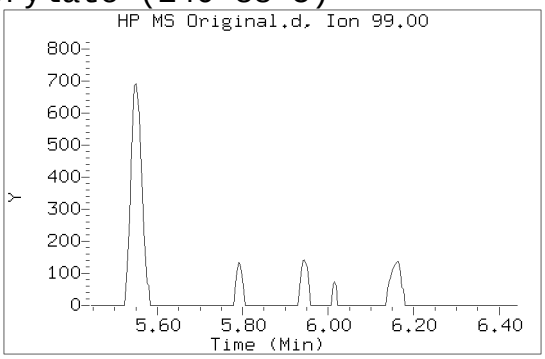
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62004.D
Inj Date : 20-JUN-2024 12:06
InstruID : VOA9.i
LabSampID : VSTD001

Ethyl Acrylate (140-88-5)

Reason Code:

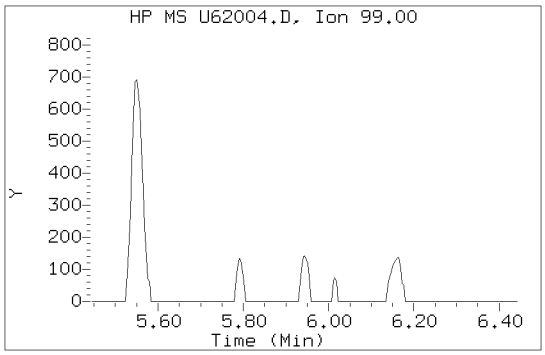
BEFORE

MASS
99
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
99
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid

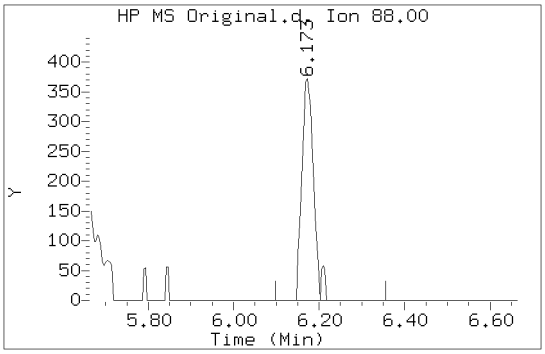


1,4-Dioxane ()

Reason Code:

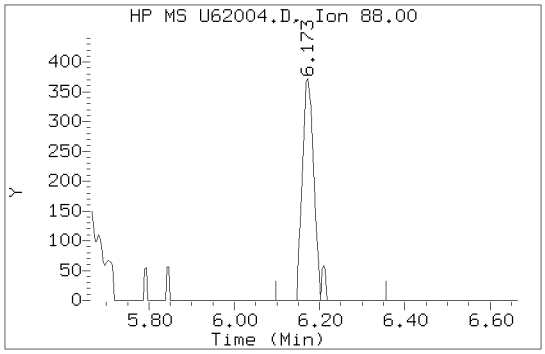
BEFORE

MASS
88
AREA
731
HEIGHT
372
29-Jun-2024
12:15
s
zaid



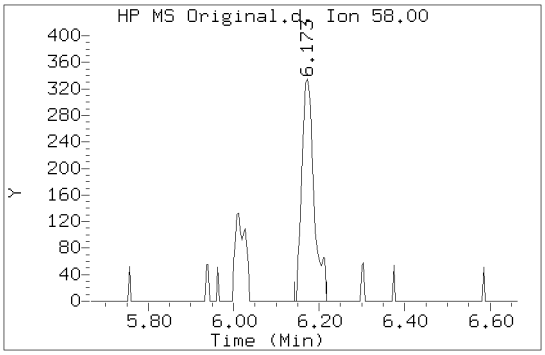
AFTER

MASS
88
AREA
731
HEIGHT
372
29-Jun-2024
12:15
s
zaid



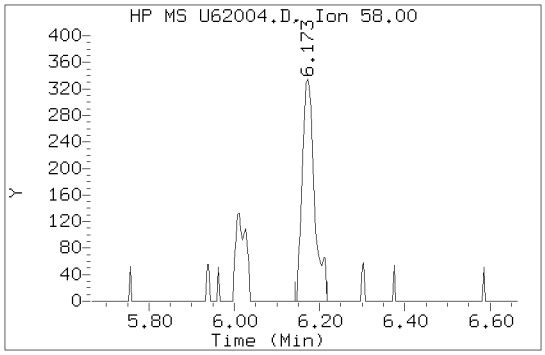
BEFORE

MASS
58
AREA
671
HEIGHT
335
29-Jun-2024
12:15
s
zaid



AFTER

MASS
58
AREA
671
HEIGHT
335
29-Jun-2024
12:15
s
zaid

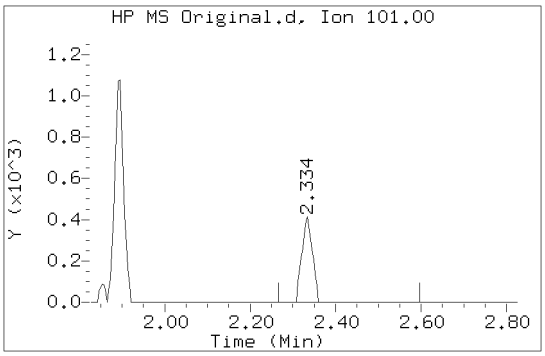


Freon TF (76-13-1)

Reason Code:

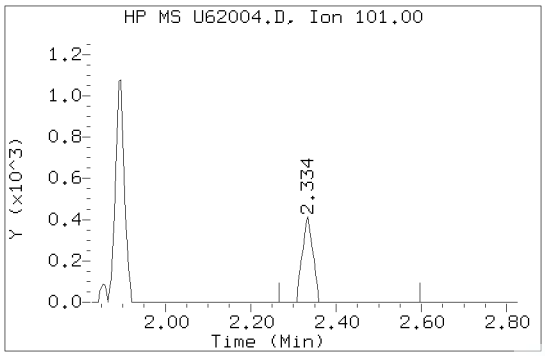
BEFORE

MASS
101
AREA
725
HEIGHT
414
29-Jun-2024
12:15
s
zaid



AFTER

MASS
101
AREA
725
HEIGHT
414
29-Jun-2024
12:15
s
zaid



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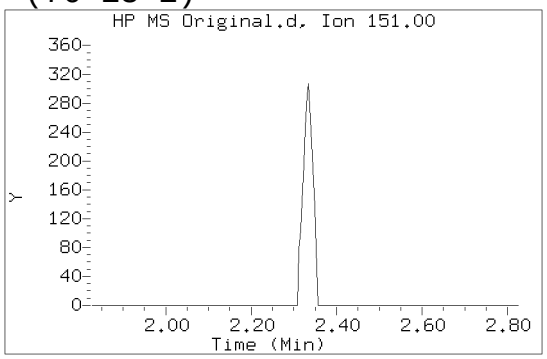
Inj Date : 20-JUN-2024 12:06
InstruID : VOA9.i
LabSampID : VSTD001

Freon TF (76-13-1)

Reason Code:

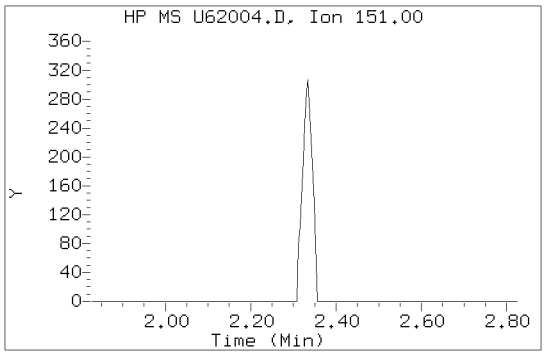
BEFORE

MASS
151
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
151
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid

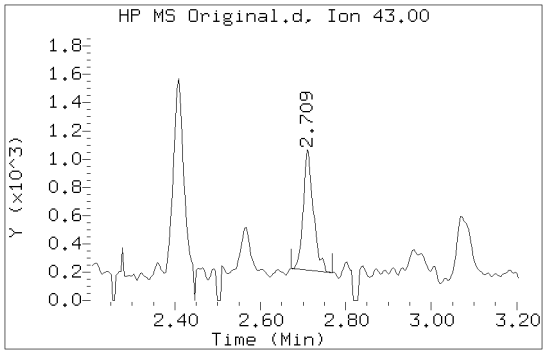


Methyl acetate (79-20-9)

Reason Code:

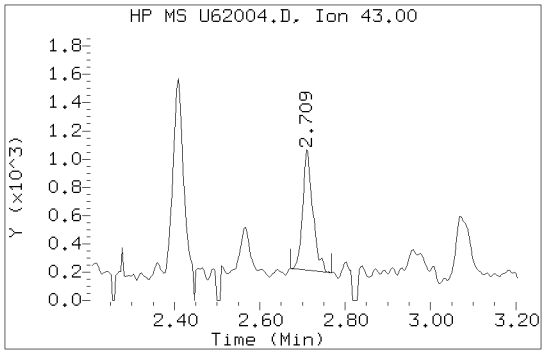
BEFORE

MASS
43
AREA
1432
HEIGHT
850
29-Jun-2024
12:15
s
zaid



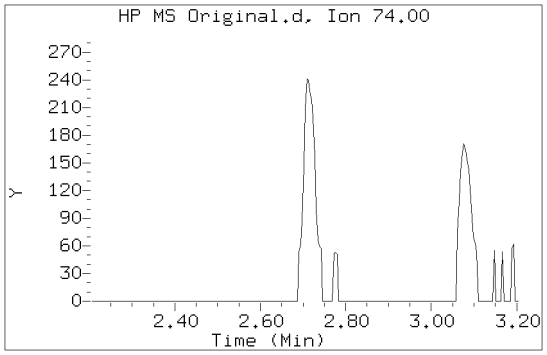
AFTER

MASS
43
AREA
1432
HEIGHT
850
29-Jun-2024
12:15
s
zaid



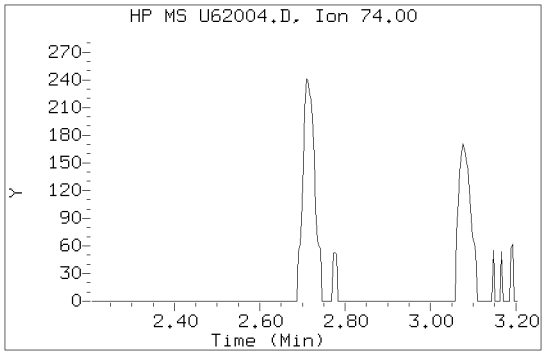
BEFORE

MASS
74
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
74
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid

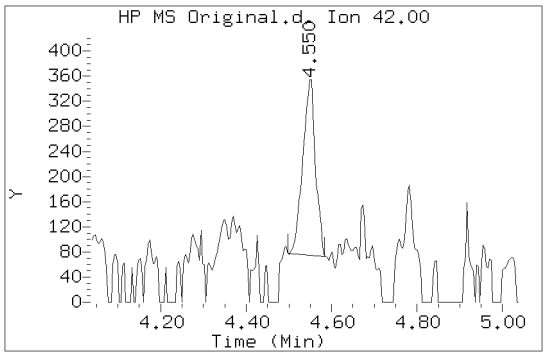


Tetrahydrofuran (109-99-9)

Reason Code:

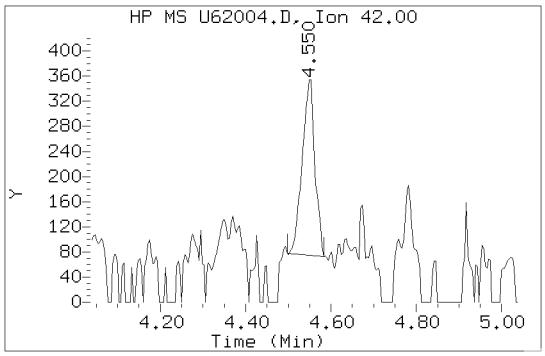
BEFORE

MASS
42
AREA
580
HEIGHT
279
29-Jun-2024
12:15
s
zaid



AFTER

MASS
42
AREA
580
HEIGHT
279
29-Jun-2024
12:15
s
zaid



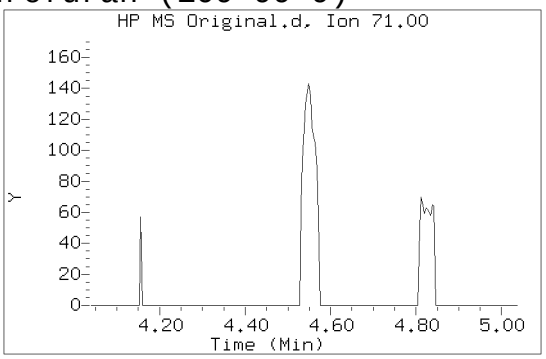
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62004.D
Inj Date : 20-JUN-2024 12:06
InstruID : VOA9.i
LabSampID : VSTD001

Tetrahydrofuran (109-99-9)

Reason Code:

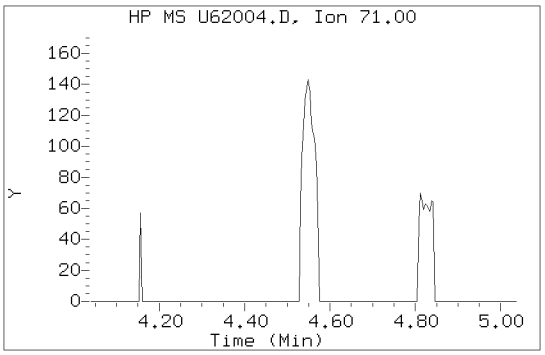
BEFORE

MASS
71
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
71
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid

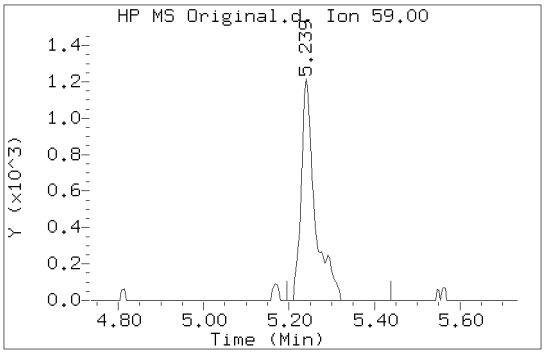


tert-Butyl formate (762-75-4)

Reason Code:

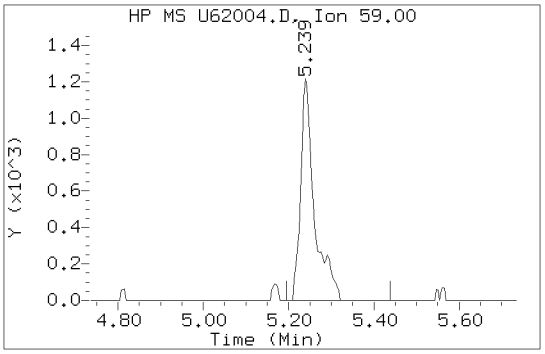
BEFORE

MASS
59
AREA
2782
HEIGHT
1217
29-Jun-2024
12:15
s
zaid



AFTER

MASS
59
AREA
2782
HEIGHT
1217
29-Jun-2024
12:15
s
zaid



BEFORE

MASS
57
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
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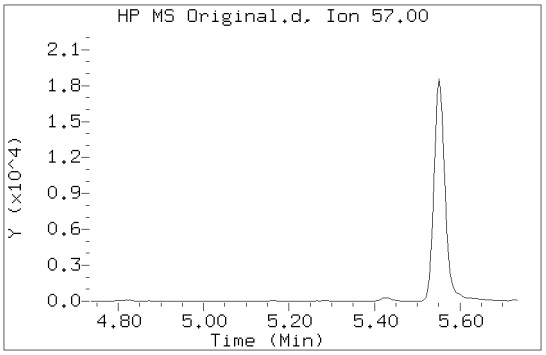

AFTER

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57
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HEIGHT
0
29-Jun-2024
12:15
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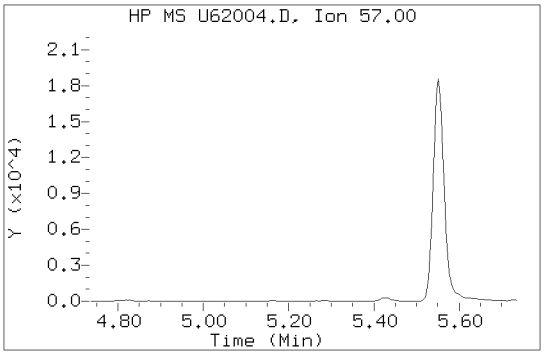

BEFORE

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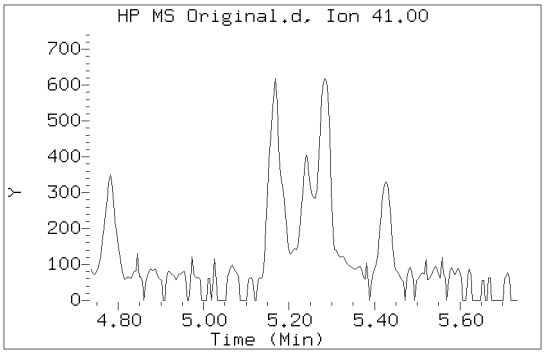

AFTER

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29-Jun-2024
12:15
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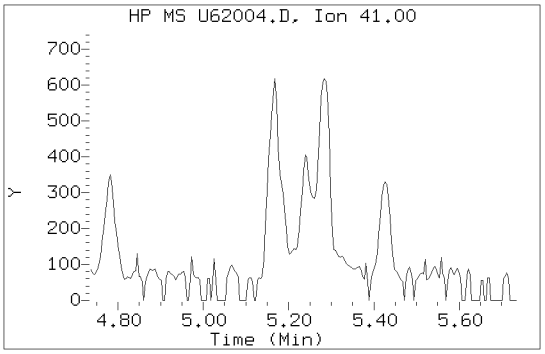

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Inj Date : 20-JUN-2024 12:06
InstruID : VOA9.i
LabSampID : VSTD001

Ethylene oxide (75-21-8)

Reason Code:

BEFORE

MASS
44
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2844
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3414
29-Jun-2024
12:15
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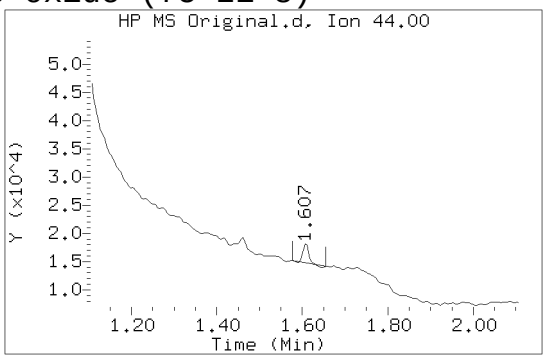
zaid



AFTER

MASS
44
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2844
HEIGHT
3414
29-Jun-2024
12:15
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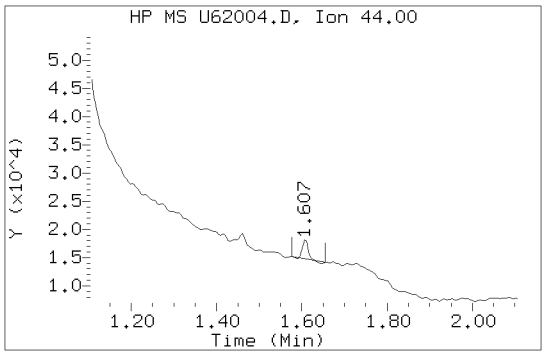

Epichlorohydrin (106-89-8)

Reason Code:

BEFORE

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57
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188
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117
29-Jun-2024
12:15
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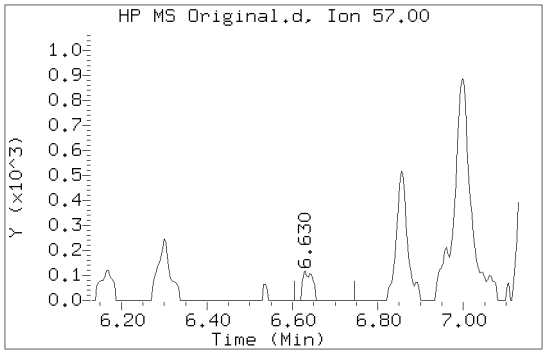
zaid



AFTER

MASS
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AREA
188
HEIGHT
117
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12:15
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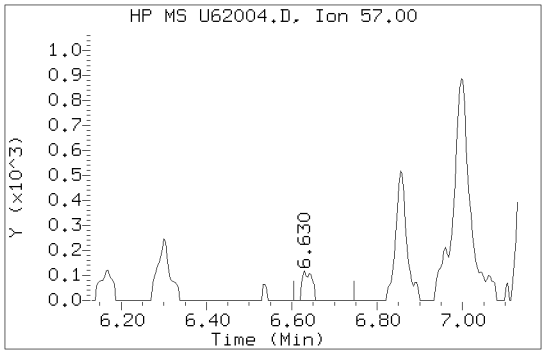
zaid



BEFORE

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49
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HEIGHT
0
29-Jun-2024
12:15
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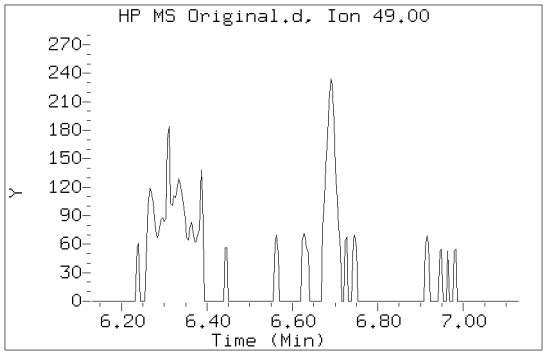

AFTER

MASS
49
AREA
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HEIGHT
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29-Jun-2024
12:15
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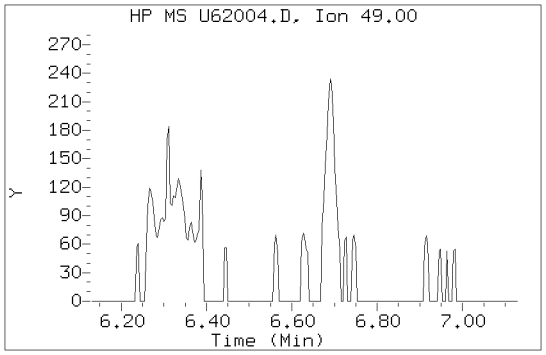
zaid



Isoprene (78-79-5)

Reason Code:

BEFORE

MASS
39
AREA
260
HEIGHT
134
29-Jun-2024
12:15
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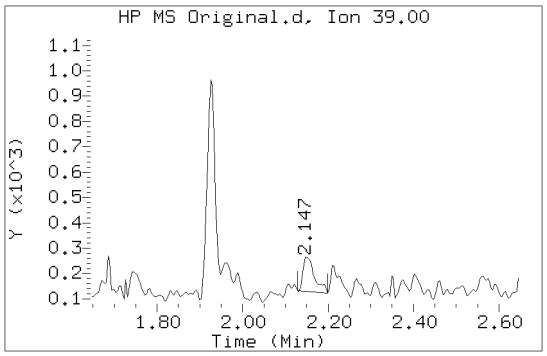
zaid



AFTER

MASS
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AREA
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HEIGHT
134
29-Jun-2024
12:15
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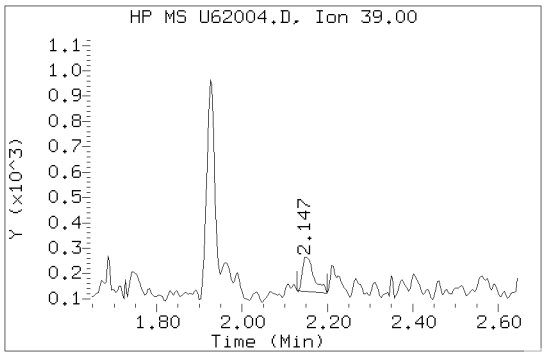
zaid



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Inj Date : 20-JUN-2024 12:06
InstruID : VOA9.i
LabSampID : VSTD001

Isoprene (78-79-5)

Reason Code:

BEFORE

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67
AREA
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HEIGHT
0
29-Jun-2024
12:15
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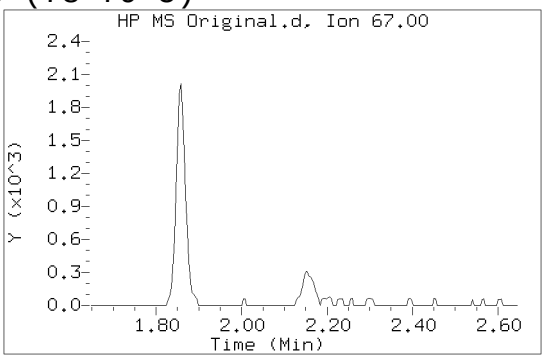
zaid



AFTER

MASS
67
AREA
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HEIGHT
0
29-Jun-2024
12:15
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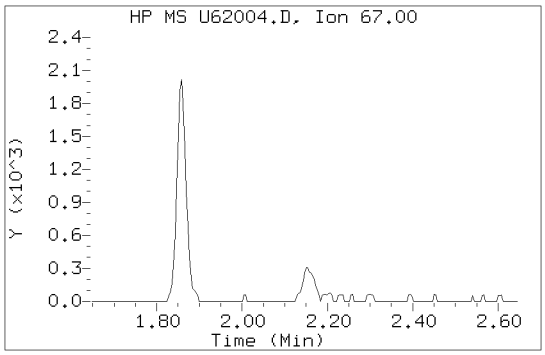
zaid



BEFORE

MASS
53
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HEIGHT
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29-Jun-2024
12:15
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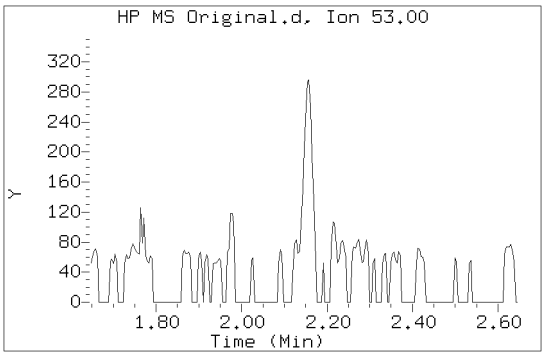
zaid



AFTER

MASS
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HEIGHT
0
29-Jun-2024
12:15
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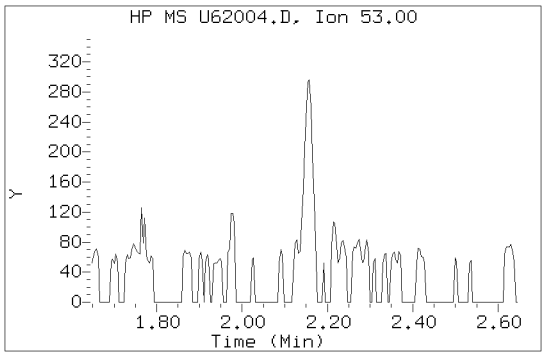
zaid



n-Amyl acetate (628-63-7)

Reason Code:

BEFORE

MASS
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AREA
2778
HEIGHT
1462
29-Jun-2024
12:15
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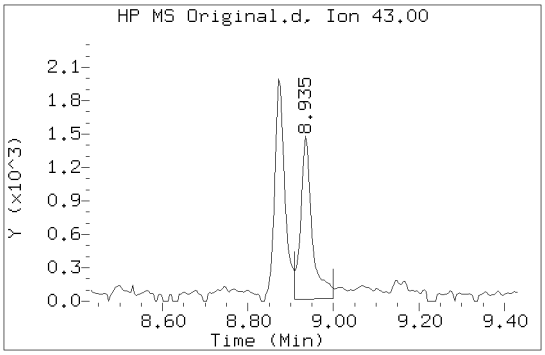
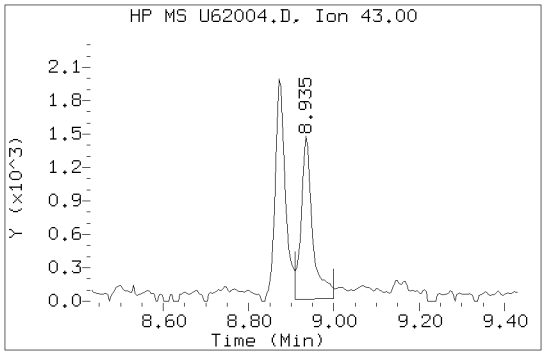
zaid



AFTER

MASS
43
AREA
2778
HEIGHT
1462
29-Jun-2024
12:15
s
zaid



BEFORE

MASS
70
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HEIGHT
0
29-Jun-2024
12:15
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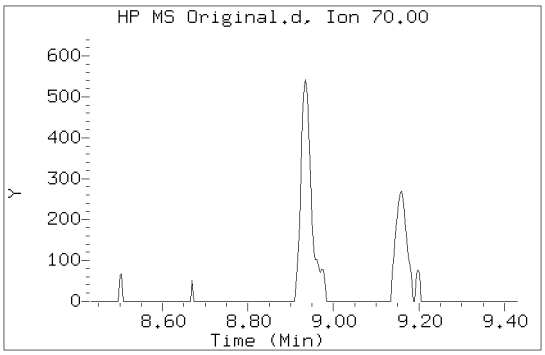

AFTER

MASS
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AREA
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HEIGHT
0
29-Jun-2024
12:15
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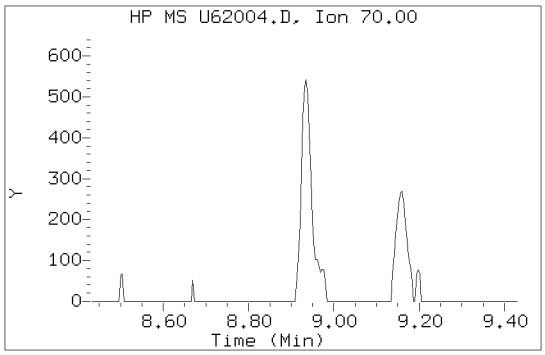
zaid



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Inj Date : 20-JUN-2024 12:06
InstruID : VOA9.i
LabSampID : VSTD001

n-Amyl acetate (628-63-7)

Reason Code:

BEFORE

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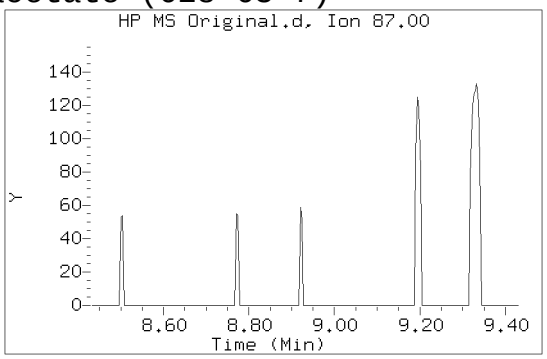
87
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
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HEIGHT
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29-Jun-2024
12:15
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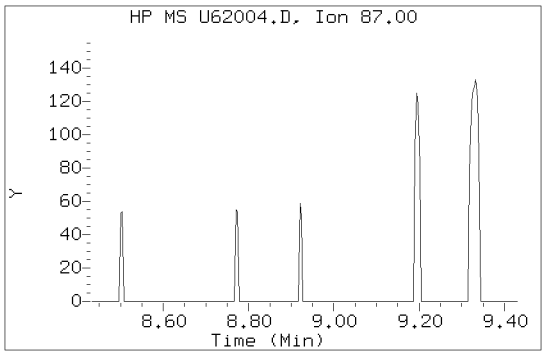
zaid



Isopropyl acetate (108-21-4)

Reason Code:

BEFORE

MASS
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AREA
4316
HEIGHT
2215
29-Jun-2024
12:15
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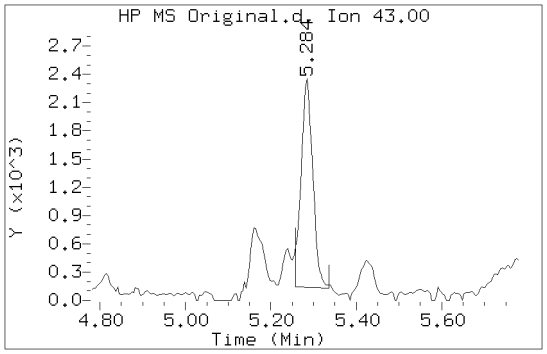

AFTER

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HEIGHT
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29-Jun-2024
12:15
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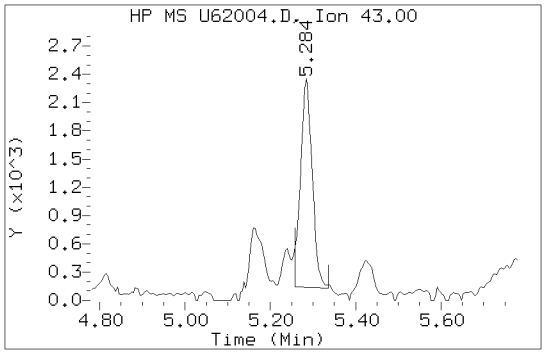

BEFORE

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HEIGHT
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12:15
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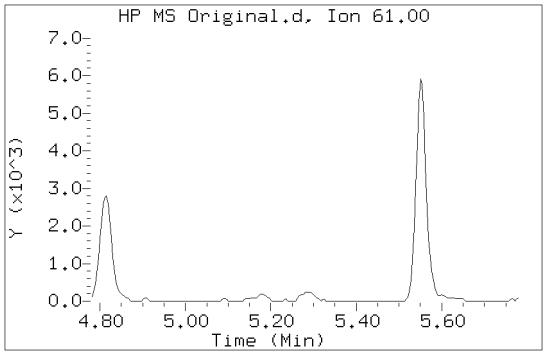

AFTER

MASS
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AREA
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HEIGHT
0
29-Jun-2024
12:15
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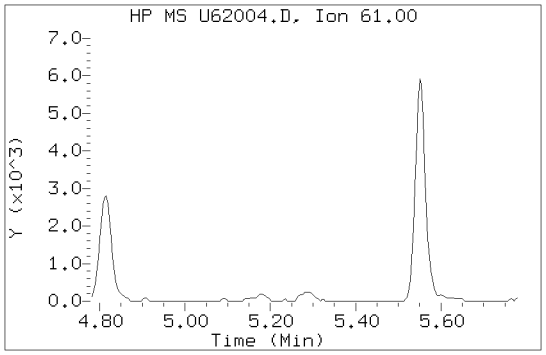
zaid



n-Butyl acetate (123-86-4)

Reason Code:

BEFORE

MASS
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AREA
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HEIGHT
1328
29-Jun-2024
12:15
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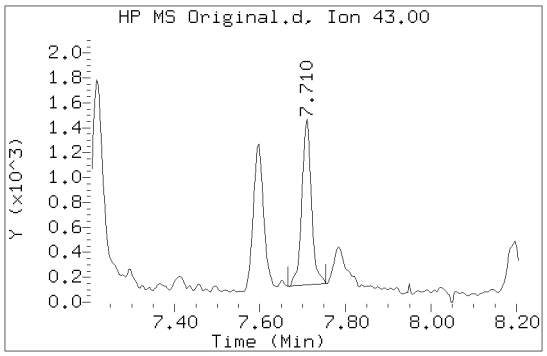

AFTER

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1328
29-Jun-2024
12:15
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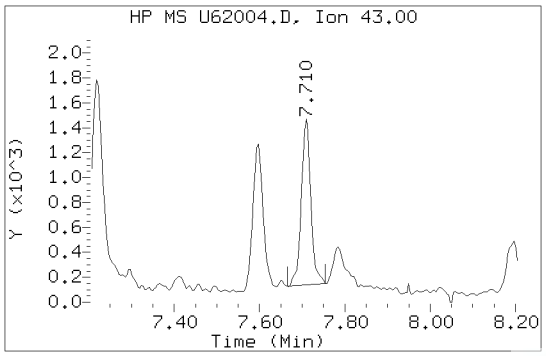

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Inj Date : 20-JUN-2024 12:06
InstruID : VOA9.i
LabSampID : VSTD001

n-Butyl acetate (123-86-4)

BEFORE
MASS
56
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HEIGHT
0
29-Jun-2024
12:15
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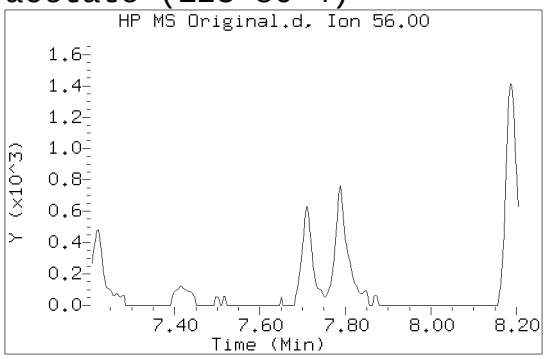
zaid



Reason Code:

AFTER
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56
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HEIGHT
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29-Jun-2024
12:15
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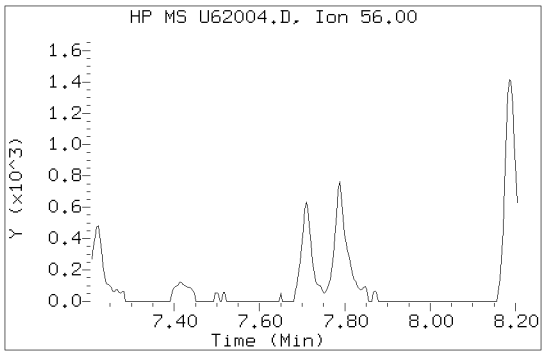

BEFORE
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87
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HEIGHT
0
29-Jun-2024
12:15
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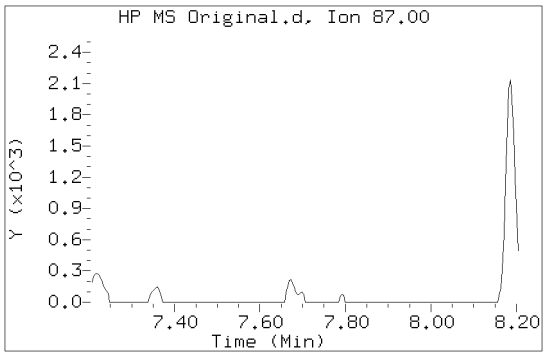

AFTER
MASS
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AREA
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HEIGHT
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29-Jun-2024
12:15
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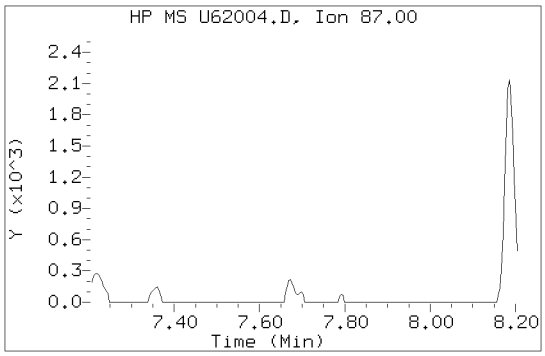

Dimethyl Disulfide (624-92-0)

BEFORE
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761
HEIGHT
513
29-Jun-2024
12:15
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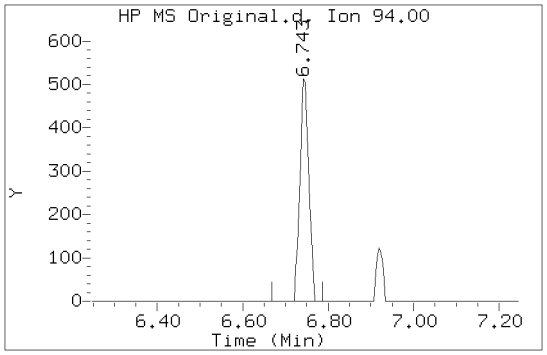
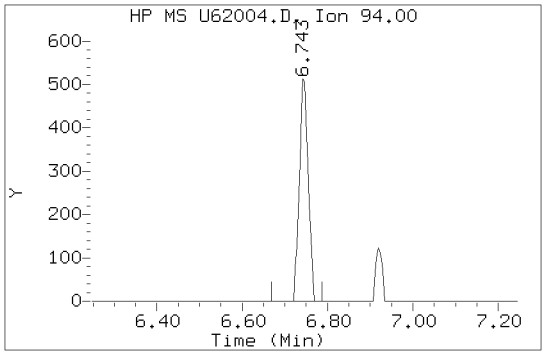
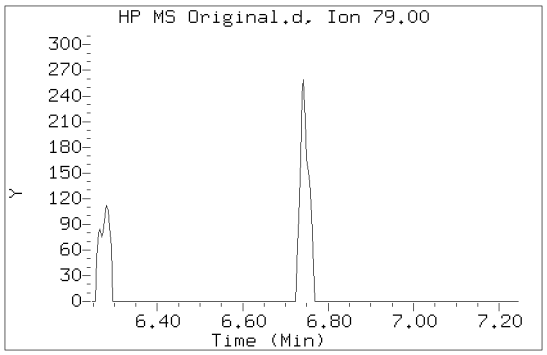


Reason Code:

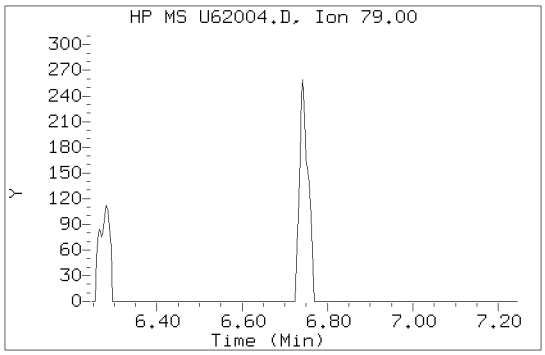
AFTER
MASS
94
AREA
761
HEIGHT
513
29-Jun-2024
12:15
s
zaid



BEFORE
MASS
79
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER
MASS
79
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



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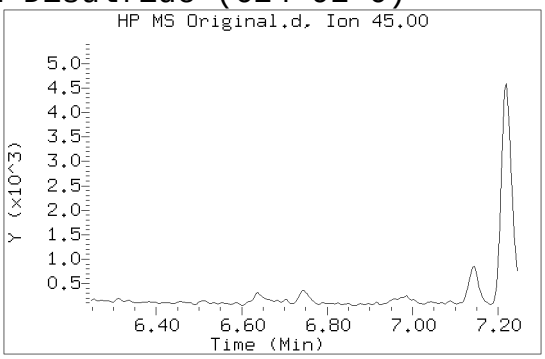
Inj Date : 20-JUN-2024 12:06
InstruID : VOA9.i
LabSampID : VSTD001

Dimethyl Disulfide (624-92-0)

Reason Code:

BEFORE

MASS
45
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
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AREA
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HEIGHT
0
29-Jun-2024
12:15
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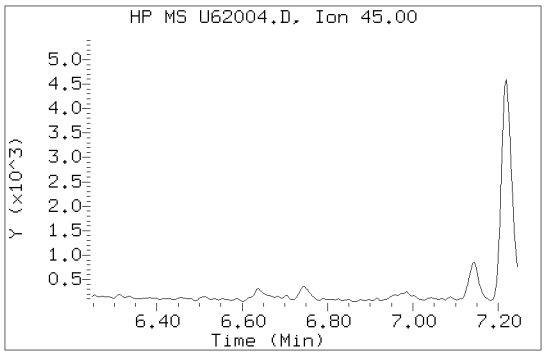
zaid

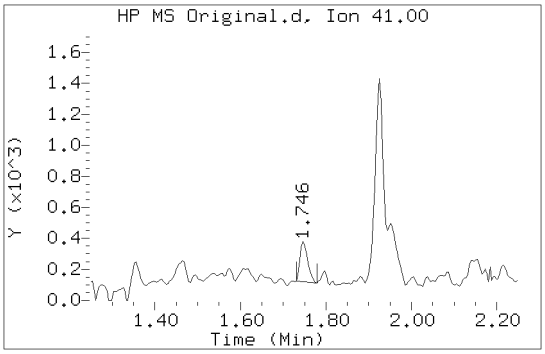


Isobutylene (115-11-7)

Reason Code:

BEFORE

MASS
41
AREA
329
HEIGHT
258
29-Jun-2024
12:15
s
zaid



AFTER

MASS
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AREA
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HEIGHT
258
29-Jun-2024
12:15
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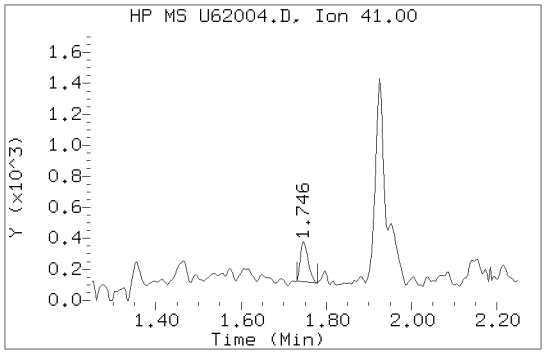
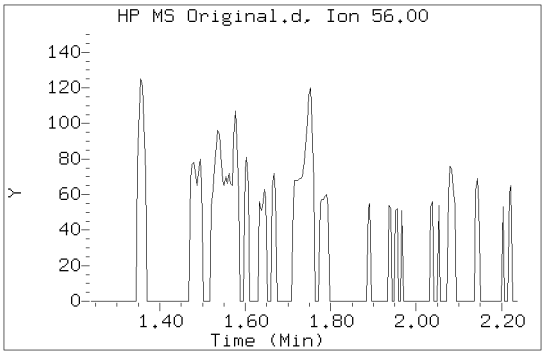
zaid



BEFORE

MASS
56
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
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AREA
0
HEIGHT
0
29-Jun-2024
12:15
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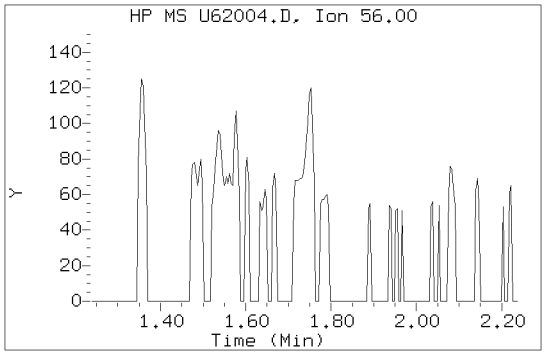

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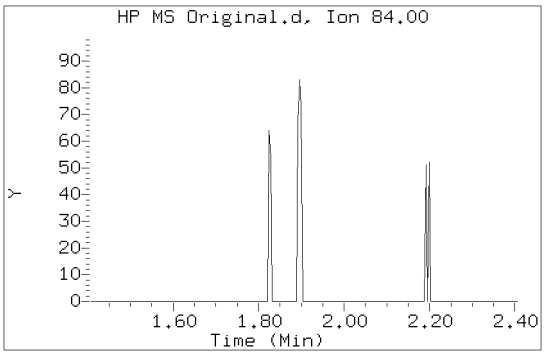

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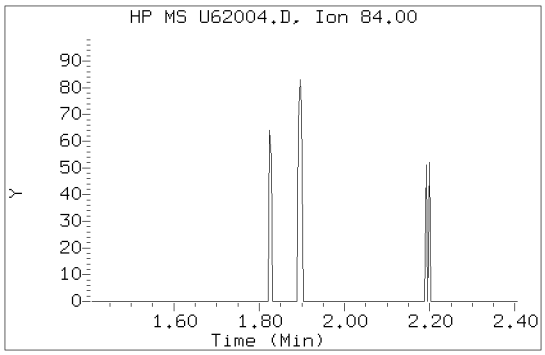

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Inj Date : 20-JUN-2024 12:06
InstruID : VOA9.i
LabSampID : VSTD001

sec-Butyl Ether (6863-58-7)

Reason Code:

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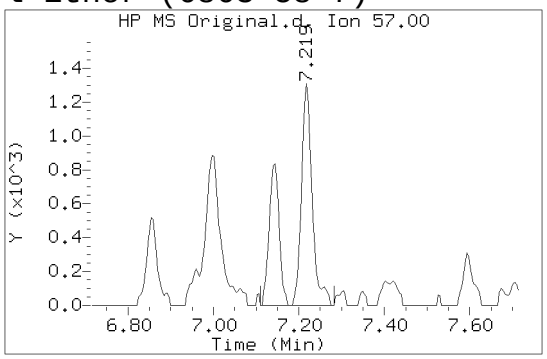

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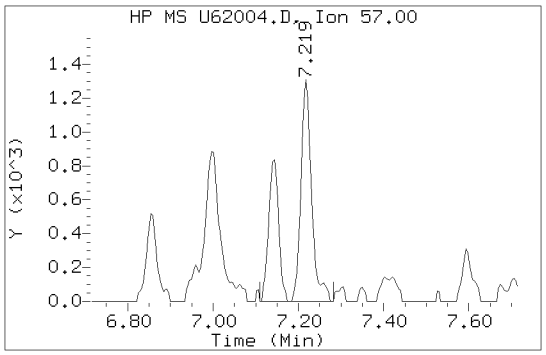

2-Chloropropene (557-98-2)

Reason Code:

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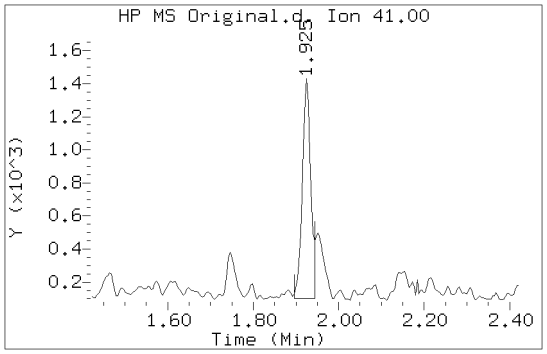

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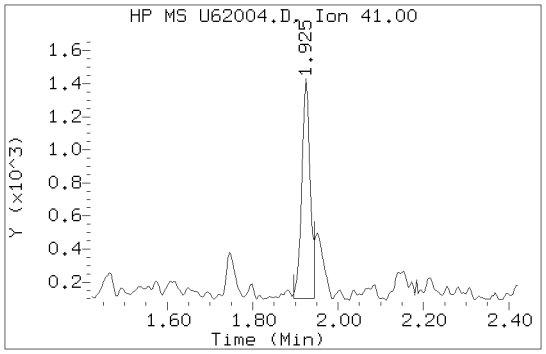

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Report Date: 29-Jun-2024 12:15

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62005.D
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Inj Date : 20-JUN-2024 12:27
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\U240620.b\8260C.m
Meth Date : 29-Jun-2024 12:15 VOA9.i Quant Type: ISTD
Cal Date : 20-JUN-2024 12:06 Cal File: U62004.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: NAHSTW7014

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)	239778	50.0000	
2 Dichlorodifluoromethane	85	1.160	1.160	(0.241)	3605	2.00000	2.10(M)
3 Chloromethane	50	1.291	1.291	(0.268)	13423	2.00000	2.01
4 Propionitrile	54	4.335	4.335	(0.901)	5919	20.0000	20.64(aM)
5 Vinyl Chloride	62	1.374	1.374	(0.286)	4934	2.00000	2.44(M)
6 Bromomethane	94	1.614	1.614	(0.335)	2855	2.00000	1.48
7 Chloroethane	64	1.696	1.696	(0.353)	3881	2.00000	2.23
8 Trichlorofluoromethane	101	1.887	1.887	(0.392)	4839	2.00000	2.10
9 Acrolein	56	2.255	2.255	(0.469)	728	4.00000	3.82(a)
10 Acetone	43	2.405	2.405	(0.500)	5656	4.00000	2.13
11 1,1-Dichloroethene	96	2.326	2.326	(0.483)	3341	2.00000	2.38
12 Isobutyl Alcohol	43	5.284	5.284	(1.098)	9925	40.0000	41.92(a)
13 Acetonitrile	39	2.663	2.663	(0.554)	4085	20.0000	12.31(a)
14 Allyl Chloride	41	2.667	2.667	(0.554)	9919	2.00000	1.80(a)
15 Iodomethane	142	2.457	2.457	(0.511)	2557	4.00000	5.38(T)
16 Acrylonitrile	53	3.061	3.061	(0.636)	3090	4.00000	4.79
17 Methylene Chloride	84	2.787	2.787	(0.579)	6118	2.00000	2.05
18 Methyl tert-butyl ether	73	3.076	3.076	(0.639)	9527	2.00000	2.71
19 Carbon Disulfide	76	2.513	2.513	(0.522)	16568	4.00000	4.29
20 trans-1,2-Dichloroethene	96	3.049	3.049	(0.634)	3775	2.00000	1.98

21 Vinyl Acetate	43	4.339	4.339 (0.902)	3669	4.00000	4.08(M)
22 1,1-Dichloroethane	63	3.503	3.503 (0.728)	7303	2.00000	1.87

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62005.D Page 2
Report Date: 29-Jun-2024 12:15

	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)	5563	2.00000	2.09(a)
	24 2-Butanone	43	4.264	4.264	(0.886)	3511	4.00000	4.36
	25 Methacrylonitrile	41	4.489	4.489	(0.933)	1915	2.00000	2.61(aM)
	26 2,2-Dichloropropane	77	4.178	4.178	(0.868)	4589	2.00000	2.61
	27 cis-1,2-Dichloroethene	96	4.189	4.189	(0.871)	4314	2.00000	2.12
	28 Chloroform	83	4.568	4.568	(0.949)	7659	2.00000	1.86
	29 Bromochloromethane	128	4.463	4.463	(0.928)	2408	2.00000	2.50
$	30 Dibromofluoromethane	113	4.740	4.740	(0.985)	3969	2.00000	2.49
	31 1,1,1-Trichloroethane	97	4.736	4.736	(0.984)	4663	2.00000	2.09
	32 1,1-Dichloropropene	75	4.920	4.920	(0.887)	4266	2.00000	1.97(M)
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	6181	2.00000	1.60
	34 Carbon Tetrachloride	117	4.905	4.905	(0.884)	3503	2.00000	1.93(M)
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.059)	5111	2.00000	2.51
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	354520	50.0000	
	37 Benzene	78	5.134	5.134	(0.925)	16431	2.00000	2.25
	38 Trichloroethene	130	5.786	5.786	(1.043)	4026	2.00000	2.27(a)
	39 Bromodichloromethane	83	6.273	6.273	(1.130)	4250	2.00000	2.06(aM)
	40 Methyl Methacrylate	41	5.823	5.823	(1.210)	1372	2.00000	2.18(a)
	41 2-Chloroethylvinyl ether	63	6.562	6.562	(1.182)	106	4.00000	11.28(M)
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	4418	2.00000	2.28(a)
	43 2-Nitropropane	43	6.506	6.506	(1.352)	735	2.00000	1.93(aM)
	44 Dibromomethane	93	6.116	6.116	(1.102)	2427	2.00000	2.15(a)
	45 4-Methyl-2-Pentanone	43	6.854	6.854	(0.837)	7395	4.00000	4.21(a)
	46 cis-1,3-Dichloropropene	75	6.689	6.689	(1.205)	4560	2.00000	1.89(a)
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	318620	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	14829	2.00000	2.39(a)
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	4523	2.00000	2.00(a)
	50 Toluene	91	6.978	6.978	(0.853)	16068	2.00000	2.21(a)
	51 trans-1,3-Dichloropropene	75	7.195	7.195	(1.297)	3367	2.00000	3.68(a)
	52 2-Hexanone	43	7.218	7.218	(0.882)	6913	4.00000	5.03
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	3147	2.00000	2.24(a)
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	6566	2.00000	2.22(a)
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	2756	2.00000	1.88(a)
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	2962	2.00000	2.18(a)
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	3156	2.00000	2.03(a)
	58 1-Chlorohexane	55	8.189	8.189	(1.475)	5605	2.00000	3.43(a)
	59 Chlorobenzene	112	8.208	8.208	(1.003)	10976	2.00000	1.74(a)
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	3175	2.00000	2.03(a)
	61 Ethylbenzene	106	8.305	8.305	(1.015)	4702	2.00000	2.09(a)
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	10364	4.00000	3.86(a)
	63 o-Xylene	106	8.747	8.747	(1.069)	4864	2.00000	1.84(a)
	64 Styrene	104	8.762	8.762	(1.071)	8610	2.00000	1.94(a)
	66 Bromoform	173	8.920	8.920	(1.090)	1781	2.00000	2.76(Ta)
	67 Isopropylbenzene	105	9.062	9.062	(1.107)	12729	2.00000	1.94(a)
	68 1,1,2,2-Tetrachloroethane	83	9.328	9.328	(0.917)	4977	2.00000	2.08(aM)
$	69 4-Bromofluorobenzene	95	9.193	9.193	(1.123)	5815	2.00000	2.39(a)
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	168373	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	4881	2.00000	3.08(a)
	72 trans-1,4-Dichloro-2-butene	53	9.381	9.381	(1.146)	809	2.00000	1.81(a)
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	14357	2.00000	1.97(a)
	74 Bromobenzene	156	9.317	9.317	(0.916)	4522	2.00000	2.28(a)
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	8809	2.00000	3.22(a)

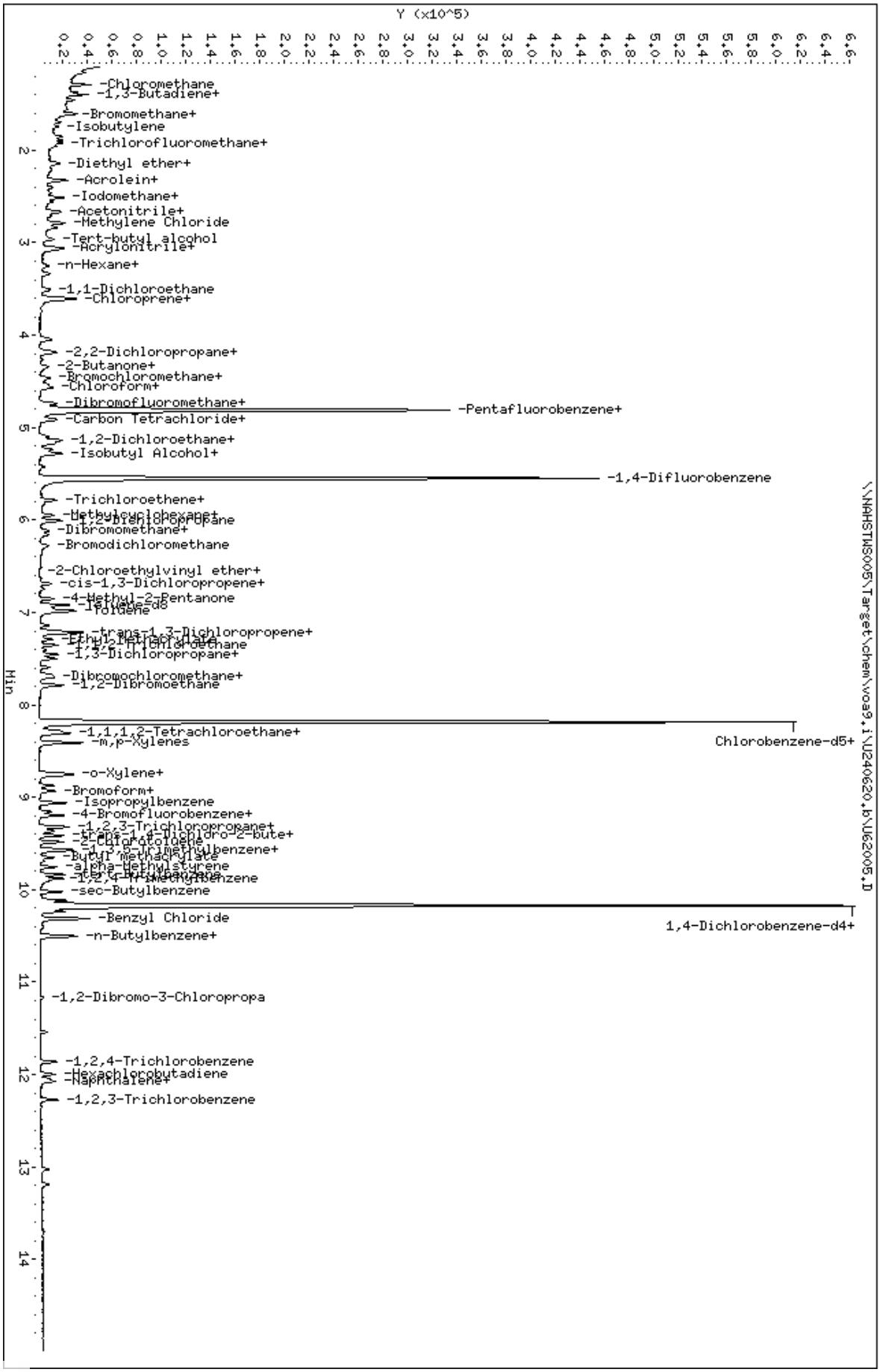
76	2-Chlorotoluene	91	9.482	9.482 (0.932)	10080	2.00000	2.04(a)
77	4-Chlorotoluene	91	9.576	9.576 (0.941)	11347	2.00000	2.02(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.838	9.838	(0.967)	8524	2.00000	1.92(a)
79	1,2,4-Trimethylbenzene	105	9.879	9.879	(0.971)	12188	2.00000	2.27(aM)
81	sec-Butylbenzene	105	10.022	10.022	(0.985)	11025	2.00000	1.86(a)
82	p-Isopropyltoluene	119	10.146	10.146	(0.997)	8854	2.00000	3.15(a)
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	8094	2.00000	2.22(a)
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	8802	2.00000	1.92(a)
86	Benzyl Chloride	91	10.311	10.311	(1.260)	26630	2.00000	4.69(a)
87	n-Butylbenzene	91	10.494	10.494	(1.032)	7724	2.00000	2.84(a)
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	7893	2.00000	2.17(a)
89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	571	2.00000	2.52(aM)
90	1,2,4-Trichlorobenzene	180	11.863	11.863	(1.166)	4136	2.00000	1.88(a)
91	Hexachlorobutadiene	225	12.001	12.001	(1.180)	1995	2.00000	2.05(a)
92	Naphthalene	128	12.072	12.072	(1.187)	8058	2.00000	3.47(a)
93	1,2,3-Trichlorobenzene	180	12.275	12.275	(1.207)	4185	2.00000	2.08(a)
146	Methyl acetate	43	2.708	2.708	(0.563)	3673	2.00000	0.52(a)
138	Freon TF	101	2.326	2.326	(0.483)	2577	2.00000	1.49(a)
141	Cyclohexane	56	4.811	4.811	(1.000)	8326	2.00000	2.70(a)
142	Tetrahydrofuran	42	4.545	4.545	(0.945)	1103	4.00000	3.88(aM)
147	Methylcyclohexane	55	5.943	5.943	(1.071)	6323	2.00000	1.67(a)
135	1,4-Dioxane	88	6.168	6.168	(1.282)	1106	40.0000	25.23
132	n-Butanol	56	5.827	5.827	(1.211)	2050	40.0000	47.27(a)
136	n-Hexane	57	3.334	3.334	(0.693)	3145	2.00000	2.04(a)
139	Diethyl ether	59	2.138	2.138	(0.445)	2804	2.00000	1.46(a)
148	Tert-butyl alcohol	59	2.963	2.963	(0.616)	7130	40.0000	40.02
149	Isopropyl alcohol	45	2.558	2.558	(0.532)	5605	40.0000	38.57
156	Diisopropyl ether	45	3.615	3.615	(0.751)	12472	2.00000	2.15(Ta)
162	Butyl acrylate	55	8.736	8.736	(1.067)	5640	2.00000	1.92(a)
164	Dicyclopentadiene	66	10.202	10.202	(1.003)	12710	2.00000	1.74(a)
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	9488	2.00000	1.97(a)
167	Ethanol	45	2.075	2.075	(0.431)	951	40.0000	24.42(M)
172	tert-Butyl formate	59	5.235	5.235	(1.088)	6189	4.00000	4.73(aM)
151	4-Methyl-2-pentanol	45	7.218	7.218	(1.301)	18311	40.0000	37.45
140	1,3-Butadiene	54	1.396	1.396	(0.290)	4560	2.00000	2.21(a)
182	Epichlorohydrin	57	6.633	6.633	(1.195)	356	8.00000	10.84(M)
M 94	1,2-Dichloroethylene (total)	96				8089	4.00000	(a)
130	Ethyl Acetate	43	4.534	4.534	(0.942)	1723	2.00000	1.04(aM)
131	Methyl Acrylate	55	4.369	4.369	(0.908)	4100	2.00000	2.06(aM)
189	n-Butyl acetate	43	7.705	7.705	(0.941)	5338	2.00000	2.10(a)
134	Cyclohexanone	55	9.156	9.156	(0.900)	3987	40.0000	38.78(a)
185	Isoprene	39	2.153	2.153	(0.448)	718	2.00000	2.06(a)
188	Isopropyl acetate	43	5.284	5.284	(0.952)	9833	2.00000	2.07(a)
150	Allyl alcohol	57	3.334	3.334	(0.693)	3145	40.0000	40.91
194	Acetaldehyde	44	1.456	1.456	(0.303)	3065	8.00000	7.64(M)
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	1413	2.00000	2.59(a)
202	Isobutylene	41	1.745	1.745	(0.363)	1008	2.00000	2.53(aM)
133	Ethyl Acrylate	55	5.943	5.943	(1.235)	6440	2.00000	1.70(aM)
163	Butyl methacrylate	41	9.651	9.651	(0.949)	3224	2.00000	1.30(a)
178	Ethylene oxide	44	1.602	1.602	(0.333)	7361	4.00000	4.13(aM)
203	2-Ethylhexyl Acrylate	55	12.046	12.046	(1.184)	3095	2.00000	2.99(a)
204	Tetrahydrothiophene	60	7.672	7.672	(0.937)	3699	2.00000	2.04(aA)
205	sec-Butyl Ether	57	7.214	7.214	(0.881)	7764	2.00000	2.18(aAM)
187	n-Amyl acetate	43	8.931	8.931	(1.091)	5895	2.00000	2.09(aM)

206 2-Chloropropene	41	1.917	1.917 (0.399)	4413	2.00000	1.79(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: WSTD002
Sample Info: WSTD002;WSTD002;1;4
Purge Volume: 5.0
Column phase: DB624

Instrument: WOA9.i
Operator: TS
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62005.D
Inj Date : 20-JUN-2024 12:27
InstruID : VOA9.i
LabSampID : VSTD002

Dichlorodifluoromethane (75-71-8)

Reason Code:

BEFORE

MASS
85
AREA
3605
HEIGHT
3383
29-Jun-2024
12:15
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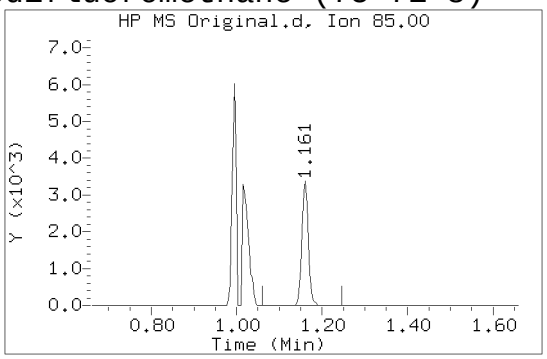
zaid



AFTER

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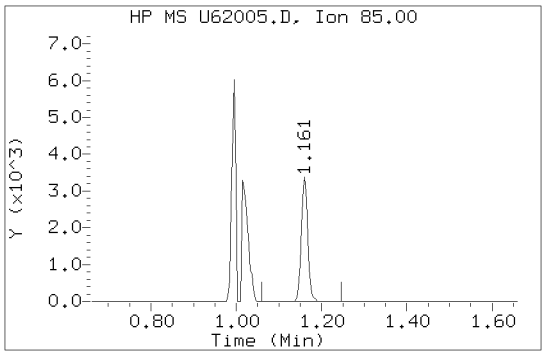

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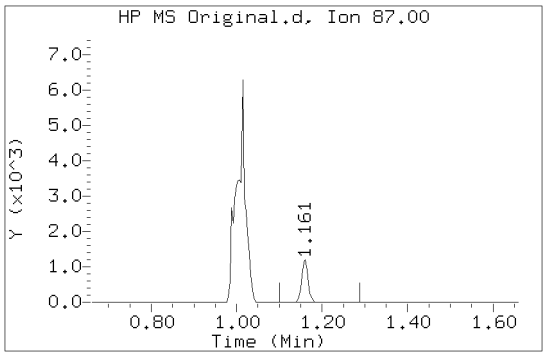

AFTER

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29-Jun-2024
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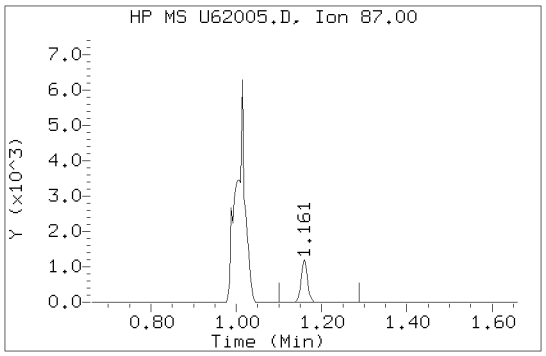
s
zaid

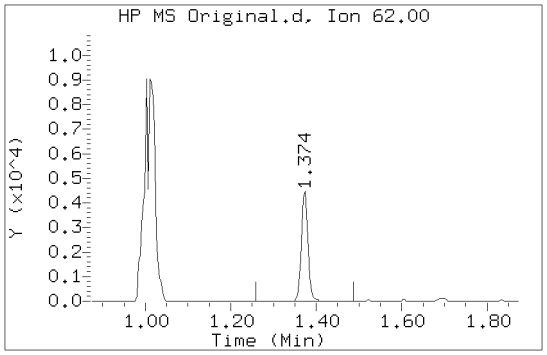


Vinyl Chloride (75-01-4)

Reason Code:

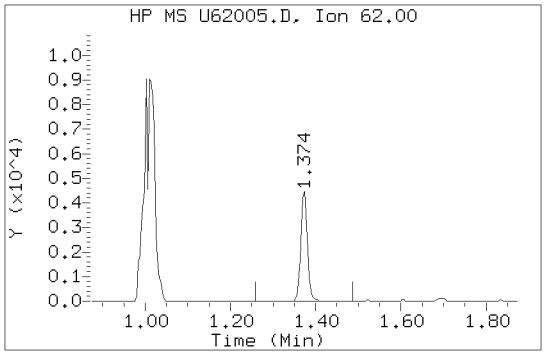
BEFORE

MASS
62
AREA
4934
HEIGHT
4475
29-Jun-2024
12:15
s
zaid



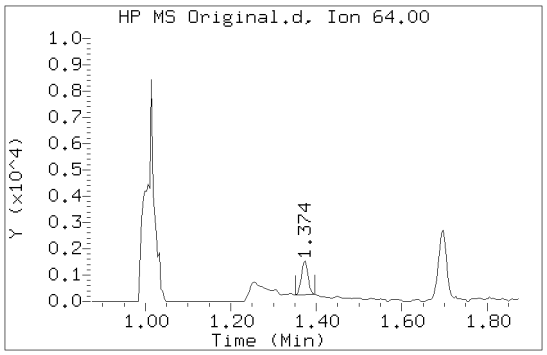
AFTER

MASS
62
AREA
4934
HEIGHT
4475
29-Jun-2024
12:15
s
zaid



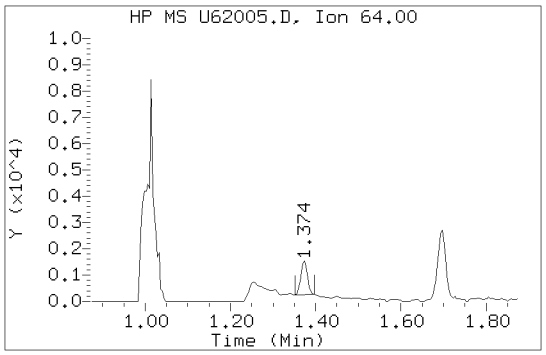
BEFORE

MASS
64
AREA
1390
HEIGHT
1276
29-Jun-2024
12:15
s
zaid



AFTER

MASS
64
AREA
1390
HEIGHT
1276
29-Jun-2024
12:15
s
zaid



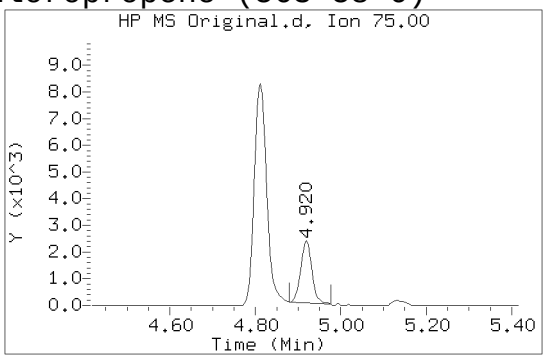
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62005.D
Inj Date : 20-JUN-2024 12:27
InstruID : VOA9.i
LabSampID : VSTD002

1,1-Dichloropropene (563-58-6)

Reason Code:

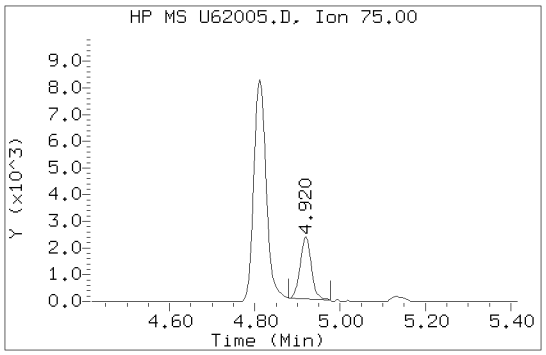
BEFORE

MASS
75
AREA
4266
HEIGHT
2318
29-Jun-2024
12:15
s
zaid



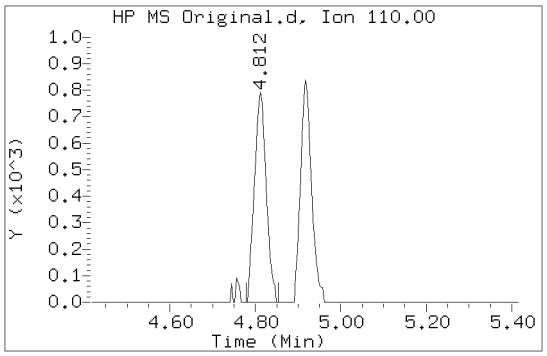
AFTER

MASS
75
AREA
4266
HEIGHT
2318
29-Jun-2024
12:15
s
zaid



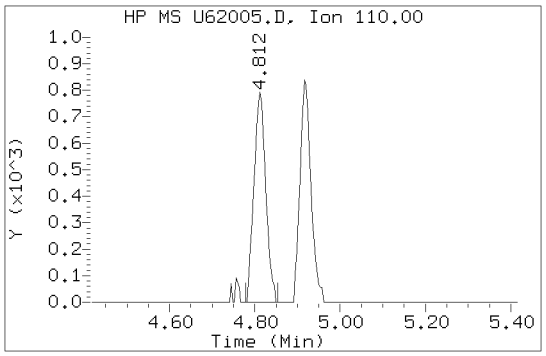
BEFORE

MASS
110
AREA
1522
HEIGHT
793
29-Jun-2024
12:15
s
zaid



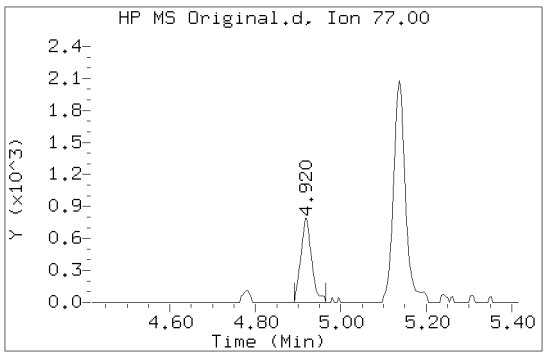
AFTER

MASS
110
AREA
1522
HEIGHT
793
29-Jun-2024
12:15
s
zaid



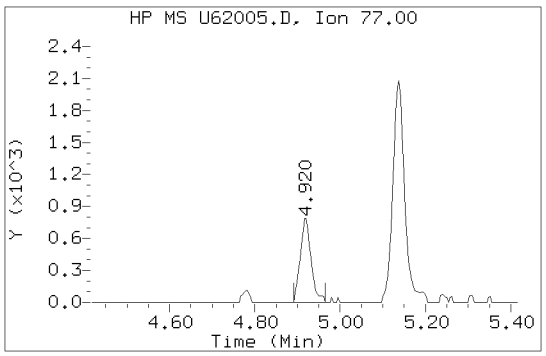
BEFORE

MASS
77
AREA
1423
HEIGHT
790
29-Jun-2024
12:15
s
zaid



AFTER

MASS
77
AREA
1423
HEIGHT
790
29-Jun-2024
12:15
s
zaid

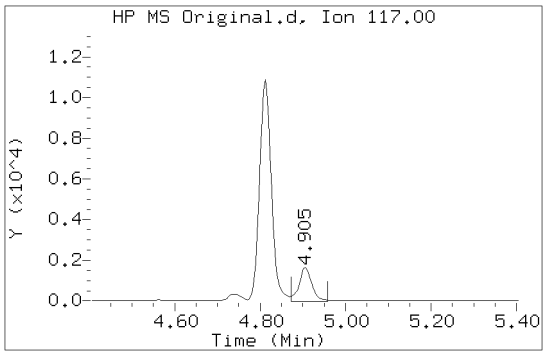


Carbon Tetrachloride (56-23-5)

Reason Code:

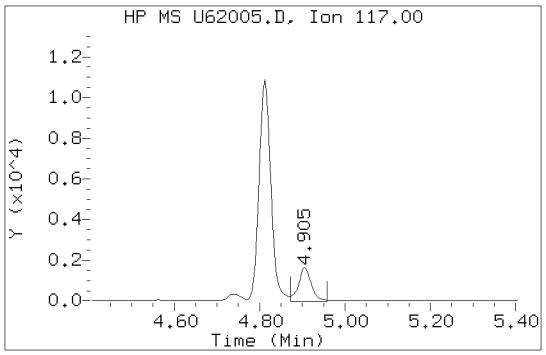
BEFORE

MASS
117
AREA
3503
HEIGHT
1676
29-Jun-2024
12:15
s
zaid



AFTER

MASS
117
AREA
3503
HEIGHT
1676
29-Jun-2024
12:15
s
zaid



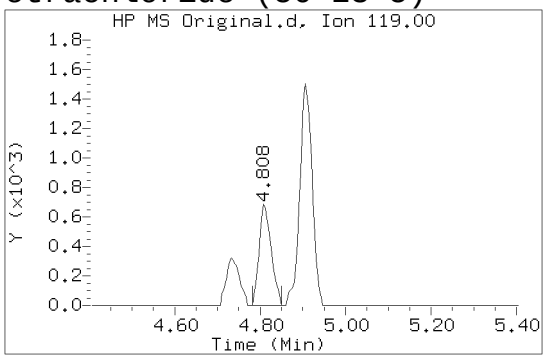
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62005.D
Inj Date : 20-JUN-2024 12:27
InstruID : VOA9.i
LabSampID : VSTD002

Carbon Tetrachloride (56-23-5)

Reason Code:

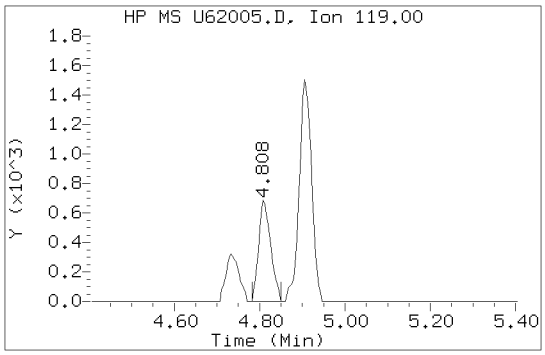
BEFORE

MASS
119
AREA
1345
HEIGHT
686
29-Jun-2024
12:15
s
zaid



AFTER

MASS
119
AREA
1345
HEIGHT
686
29-Jun-2024
12:15
s
zaid

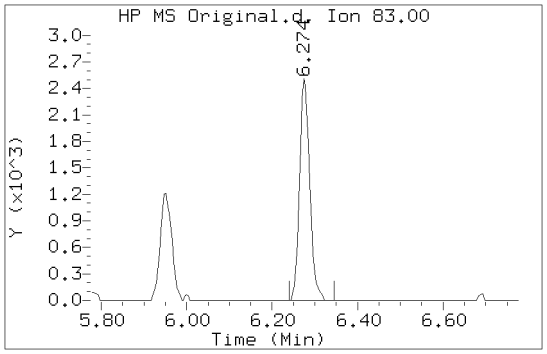


Bromodichloromethane (75-27-4)

Reason Code:

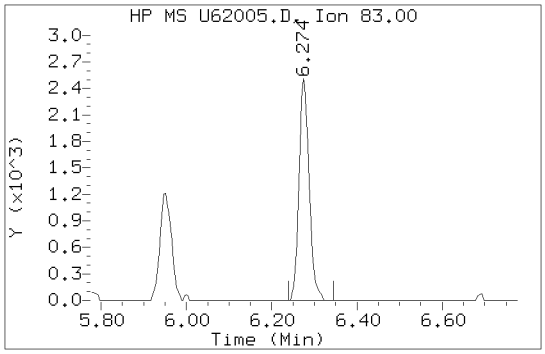
BEFORE

MASS
83
AREA
4250
HEIGHT
2510
29-Jun-2024
12:15
s
zaid



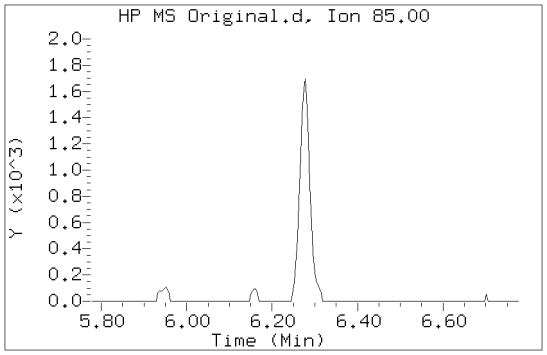
AFTER

MASS
83
AREA
4250
HEIGHT
2510
29-Jun-2024
12:15
s
zaid



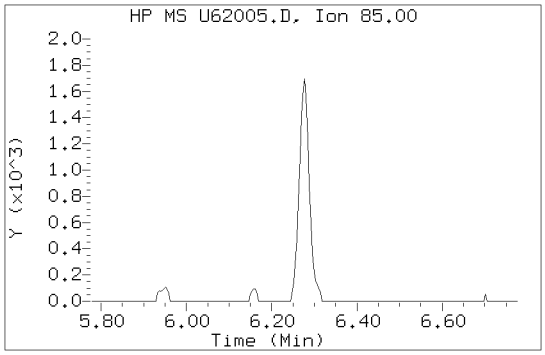
BEFORE

MASS
85
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



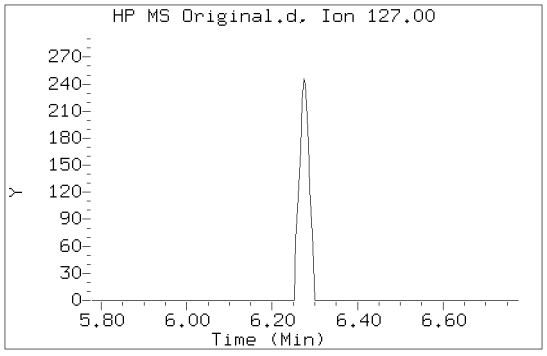
AFTER

MASS
85
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



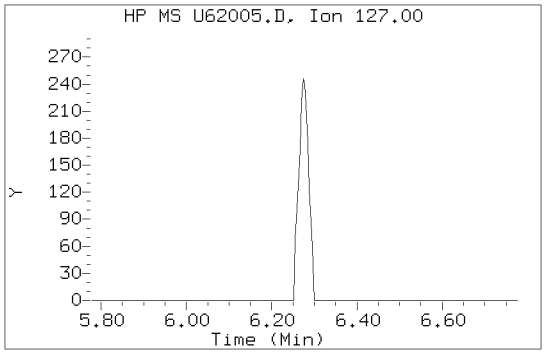
BEFORE

MASS
127
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
127
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



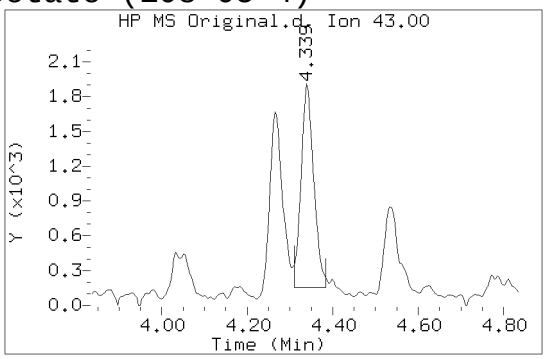
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62005.D
Inj Date : 20-JUN-2024 12:27
InstruID : VOA9.i
LabSampID : VSTD002

Vinyl Acetate (108-05-4)

Reason Code:

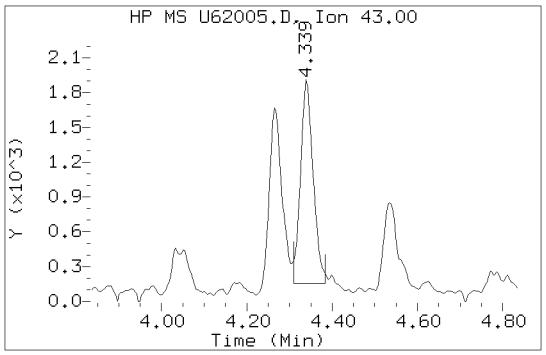
BEFORE

MASS
43
AREA
3669
HEIGHT
1757
29-Jun-2024
12:15
s
zaid



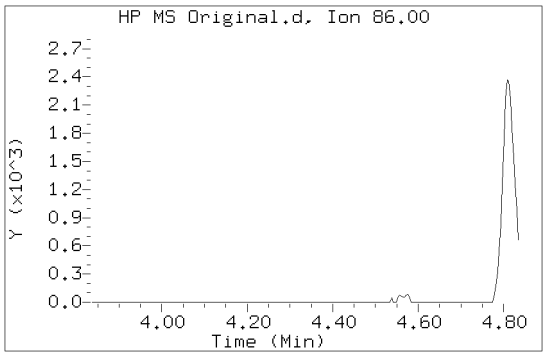
AFTER

MASS
43
AREA
3669
HEIGHT
1757
29-Jun-2024
12:15
s
zaid



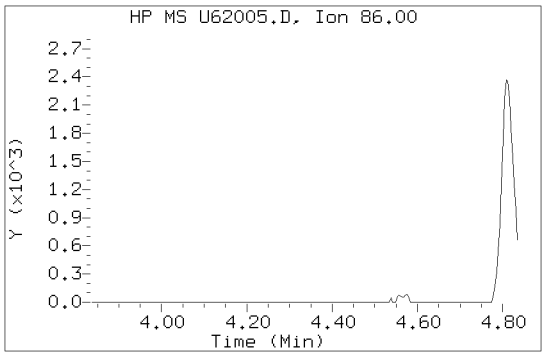
BEFORE

MASS
86
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
86
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid

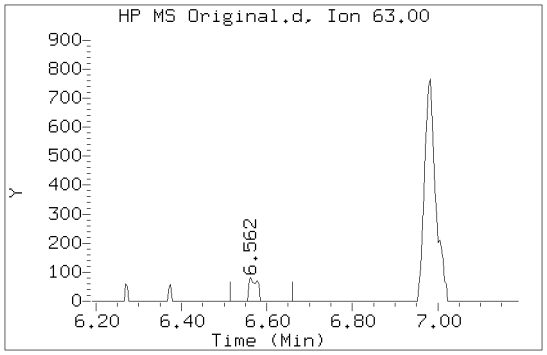


2-Chloroethylvinyl ether (110-75-8)

Reason Code:

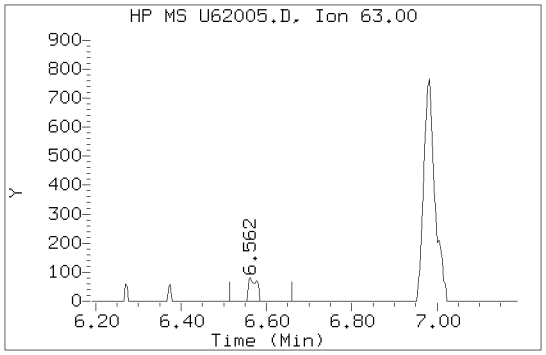
BEFORE

MASS
63
AREA
106
HEIGHT
81
29-Jun-2024
12:15
s
zaid



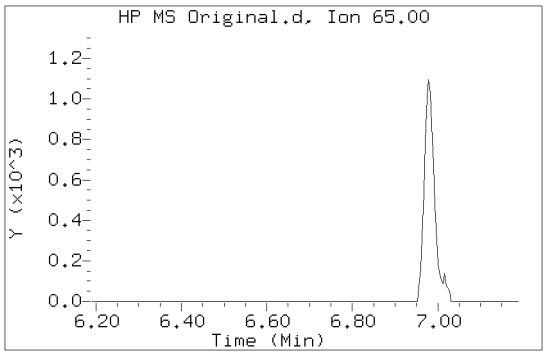
AFTER

MASS
63
AREA
106
HEIGHT
81
29-Jun-2024
12:15
s
zaid



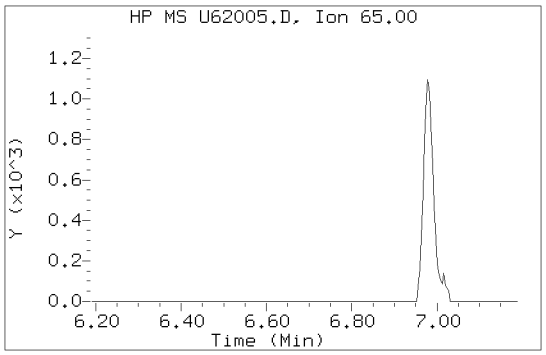
BEFORE

MASS
65
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
65
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



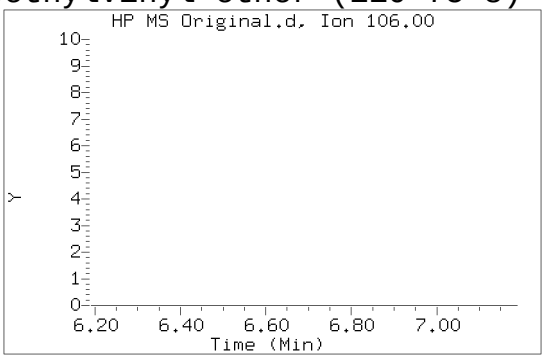
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62005.D
Inj Date : 20-JUN-2024 12:27
InstruID : VOA9.i
LabSampID : VSTD002

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

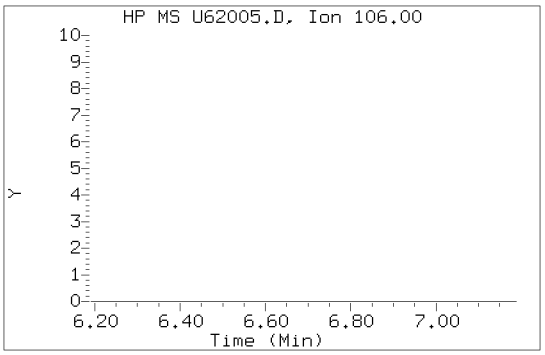
BEFORE

MASS
106
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
106
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid

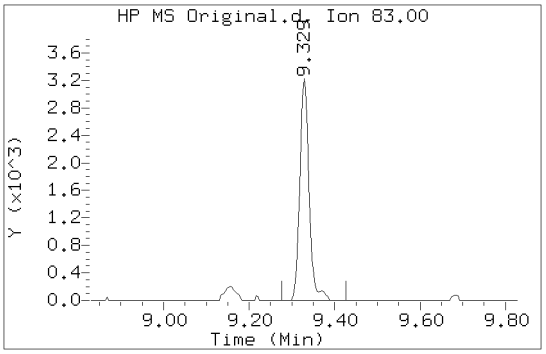


1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

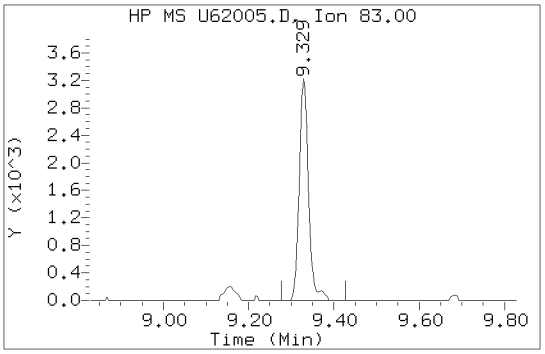
BEFORE

MASS
83
AREA
4977
HEIGHT
3225
29-Jun-2024
12:15
s
zaid



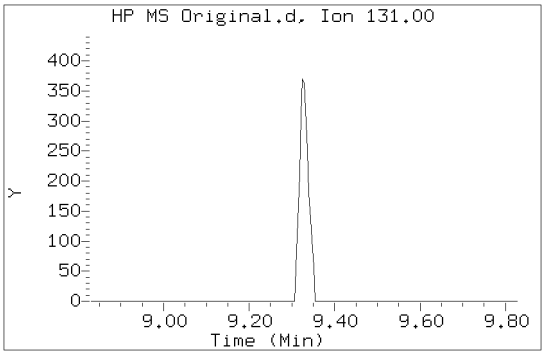
AFTER

MASS
83
AREA
4977
HEIGHT
3225
29-Jun-2024
12:15
s
zaid



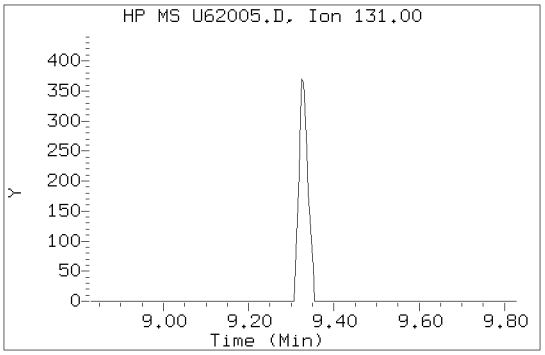
BEFORE

MASS
131
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



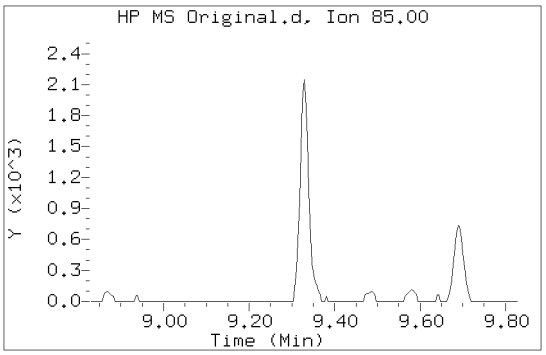
AFTER

MASS
131
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



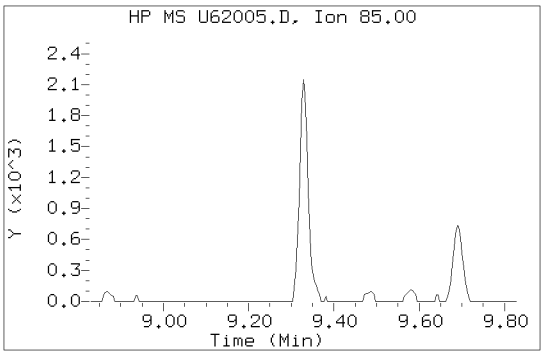
BEFORE

MASS
85
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
85
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



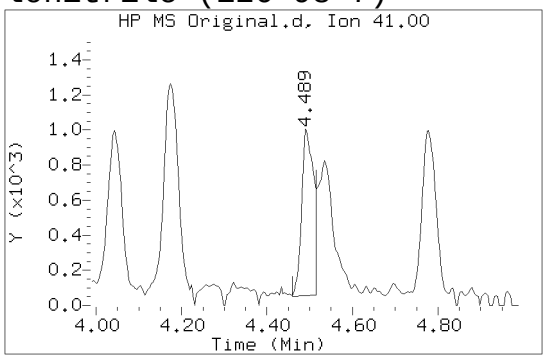
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62005.D
Inj Date : 20-JUN-2024 12:27
InstruID : VOA9.i
LabSampID : VSTD002

Methacrylonitrile (126-98-7)

Reason Code:

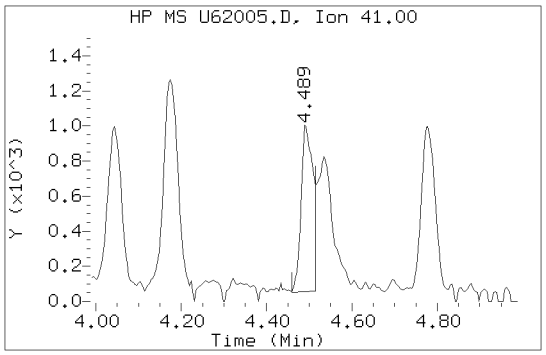
BEFORE

MASS
41
AREA
1915
HEIGHT
950
29-Jun-2024
12:15
s
zaid



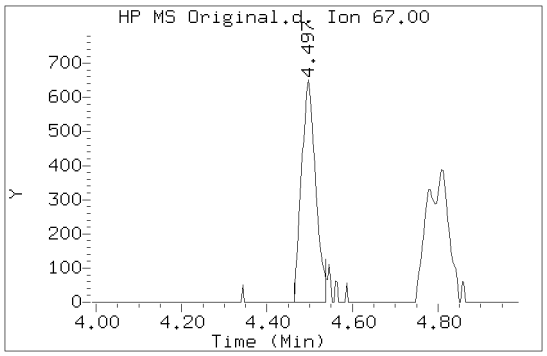
AFTER

MASS
41
AREA
1915
HEIGHT
950
29-Jun-2024
12:15
s
zaid



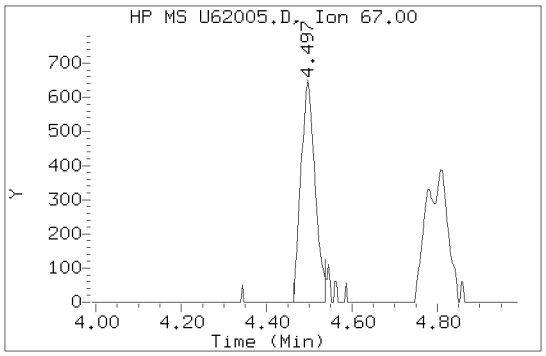
BEFORE

MASS
67
AREA
1515
HEIGHT
651
29-Jun-2024
12:15
s
zaid



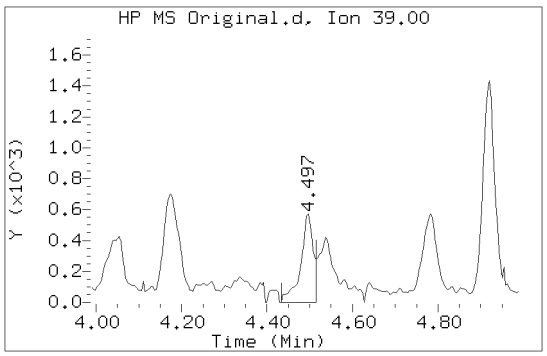
AFTER

MASS
67
AREA
1515
HEIGHT
651
29-Jun-2024
12:15
s
zaid



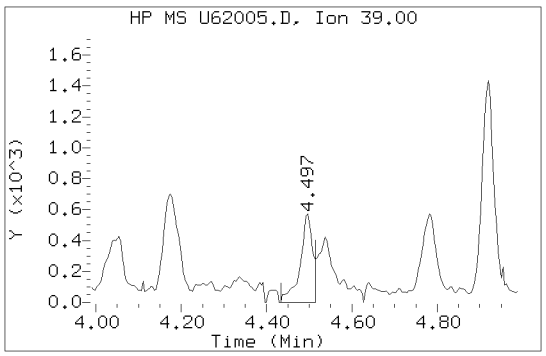
BEFORE

MASS
39
AREA
1205
HEIGHT
571
29-Jun-2024
12:15
s
zaid



AFTER

MASS
39
AREA
1205
HEIGHT
571
29-Jun-2024
12:15
s
zaid

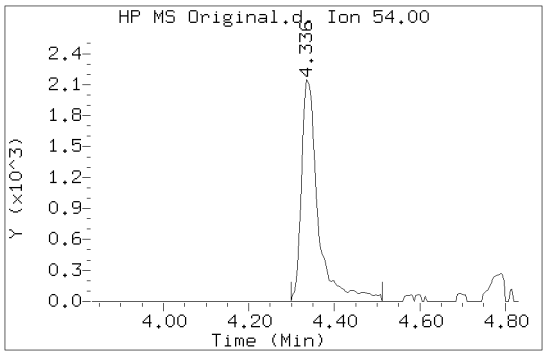


Propionitrile (107-12-0)

Reason Code:

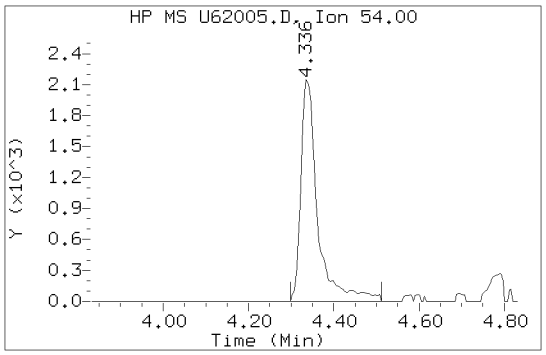
BEFORE

MASS
54
AREA
5919
HEIGHT
2148
29-Jun-2024
12:15
s
zaid



AFTER

MASS
54
AREA
5919
HEIGHT
2148
29-Jun-2024
12:15
s
zaid



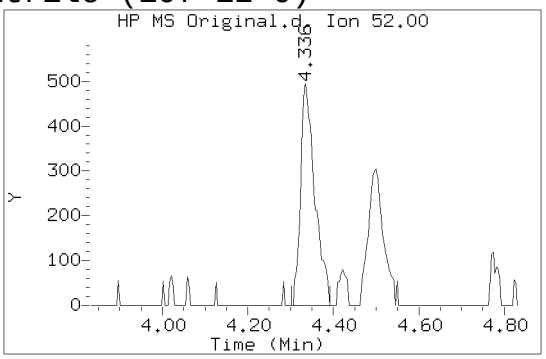
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62005.D
Inj Date : 20-JUN-2024 12:27
InstruID : VOA9.i
LabSampID : VSTD002

Propionitrile (107-12-0)

Reason Code:

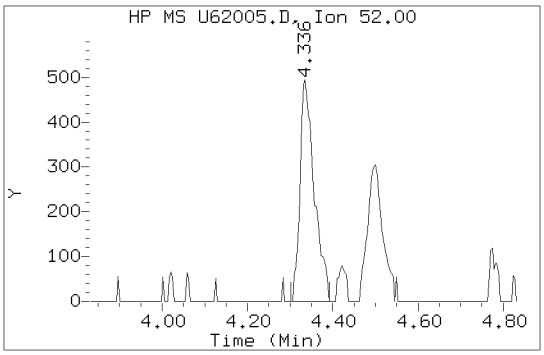
BEFORE

MASS
52
AREA
1158
HEIGHT
495
29-Jun-2024
12:15
s
zaid



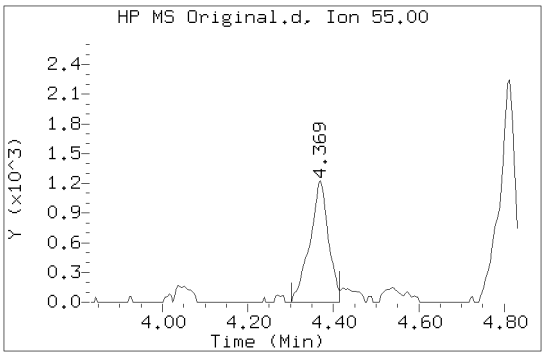
AFTER

MASS
52
AREA
1158
HEIGHT
495
29-Jun-2024
12:15
s
zaid



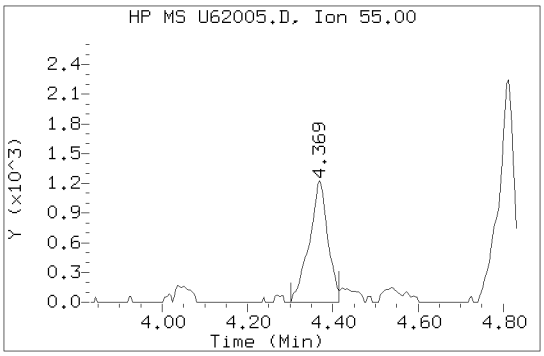
BEFORE

MASS
55
AREA
3718
HEIGHT
1225
29-Jun-2024
12:15
s
zaid



AFTER

MASS
55
AREA
3718
HEIGHT
1225
29-Jun-2024
12:15
s
zaid

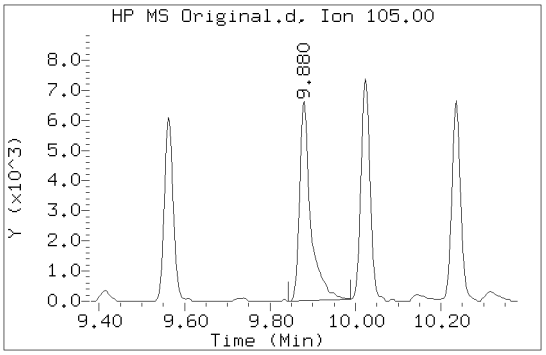


1,2,4-Trimethylbenzene (95-63-6)

Reason Code:

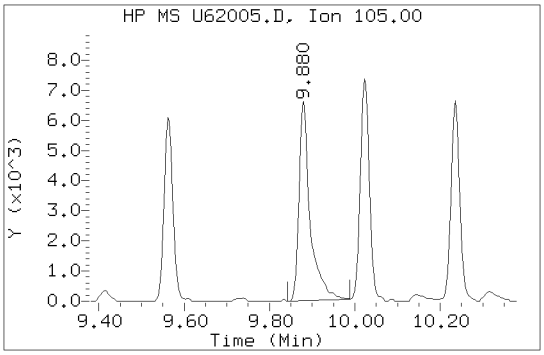
BEFORE

MASS
105
AREA
12188
HEIGHT
6618
29-Jun-2024
12:15
s
zaid



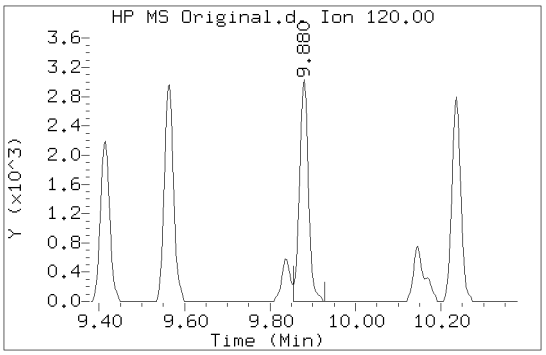
AFTER

MASS
105
AREA
12188
HEIGHT
6618
29-Jun-2024
12:15
s
zaid



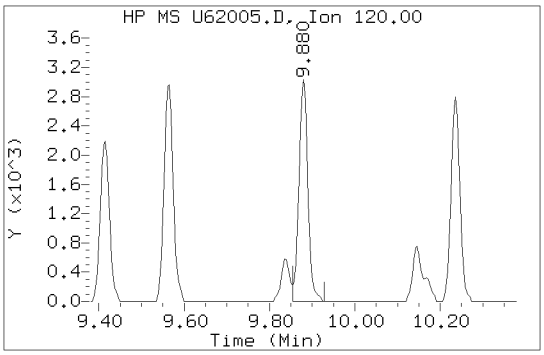
BEFORE

MASS
120
AREA
4522
HEIGHT
3032
29-Jun-2024
12:15
s
zaid



AFTER

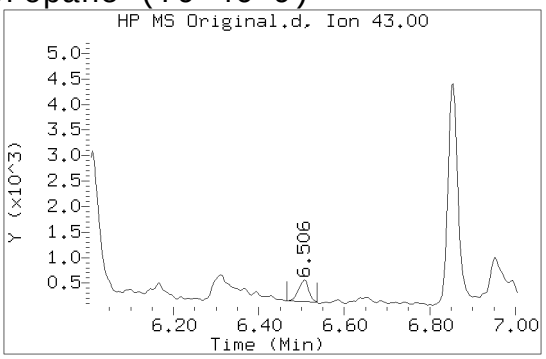
MASS
120
AREA
4522
HEIGHT
3032
29-Jun-2024
12:15
s
zaid



Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62005.D
Inj Date : 20-JUN-2024 12:27
InstruID : VOA9.i
LabSampID : VSTD002

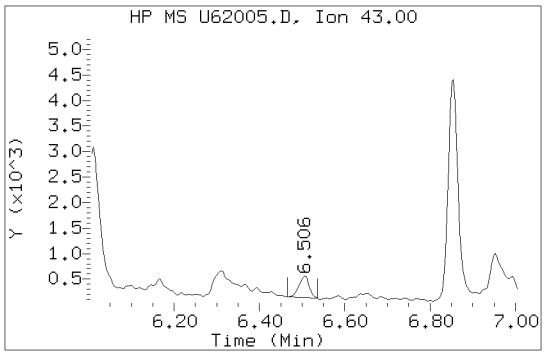
2-Nitropropane (79-46-9)

BEFORE
MASS
43
AREA
735
HEIGHT
436
29-Jun-2024
12:15
s
zaid

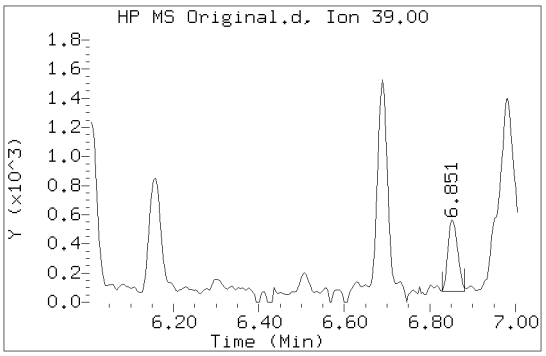


Reason Code:

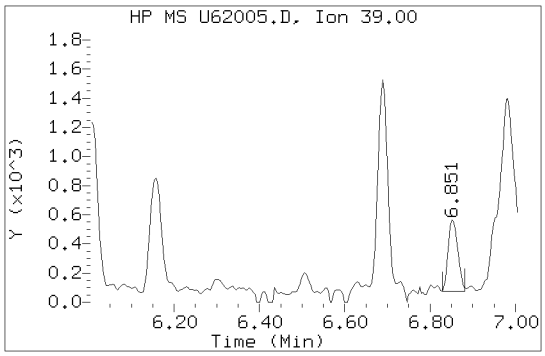
AFTER
MASS
43
AREA
735
HEIGHT
436
29-Jun-2024
12:15
s
zaid



BEFORE
MASS
39
AREA
775
HEIGHT
488
29-Jun-2024
12:15
s
zaid

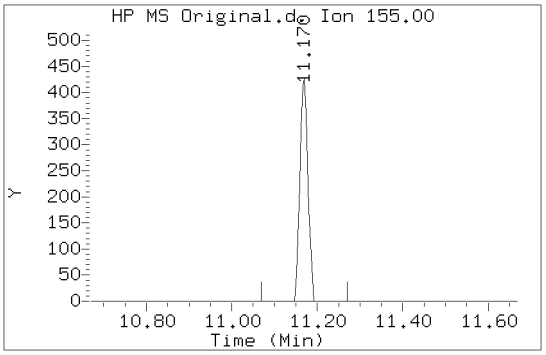


AFTER
MASS
39
AREA
775
HEIGHT
488
29-Jun-2024
12:15
s
zaid



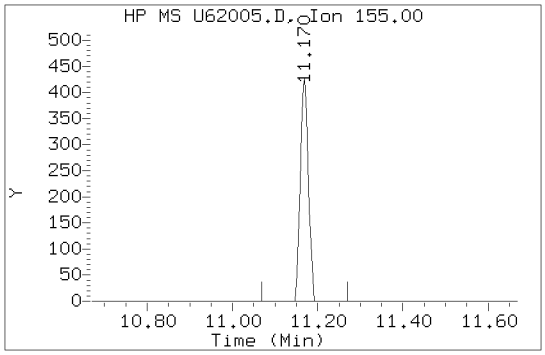
1,2-Dibromo-3-Chloropropane (96-12-8)

BEFORE
MASS
155
AREA
571
HEIGHT
426
29-Jun-2024
12:15
s
zaid

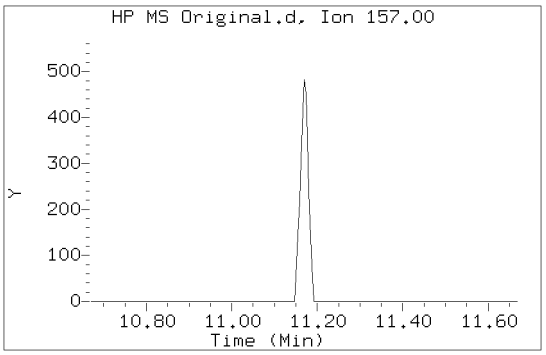


Reason Code:

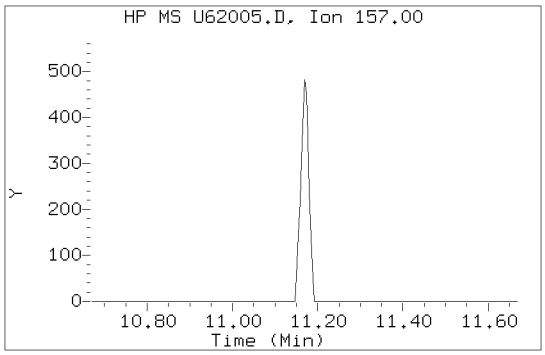
AFTER
MASS
155
AREA
571
HEIGHT
426
29-Jun-2024
12:15
s
zaid



BEFORE
MASS
157
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER
MASS
157
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



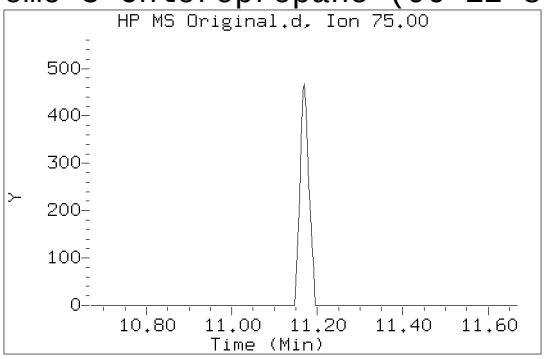
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62005.D
Inj Date : 20-JUN-2024 12:27
InstruID : VOA9.i
LabSampID : VSTD002

1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

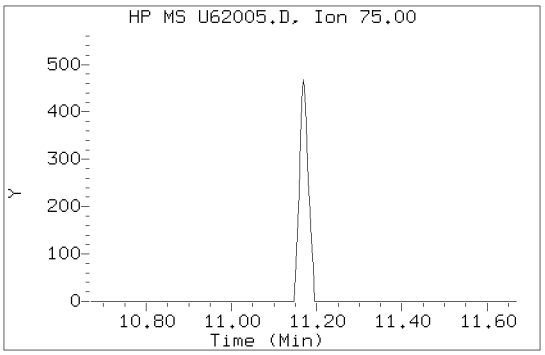
BEFORE

MASS
75
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
75
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid

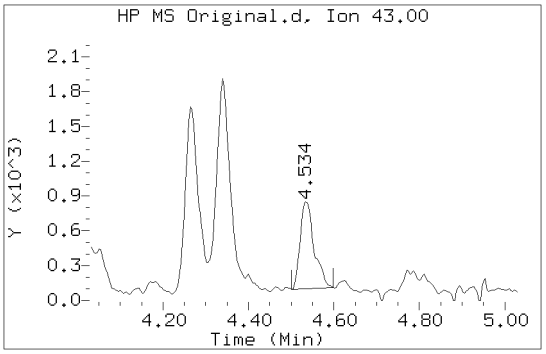


Ethyl Acetate (141-78-6)

Reason Code:

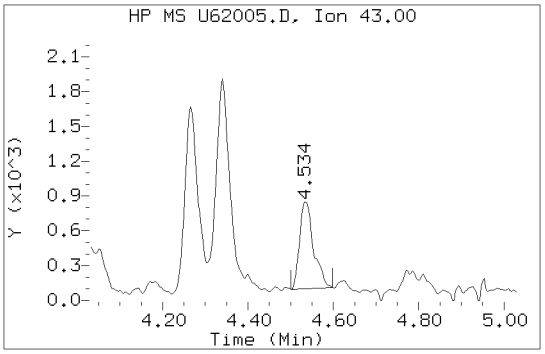
BEFORE

MASS
43
AREA
1723
HEIGHT
754
29-Jun-2024
12:15
s
zaid



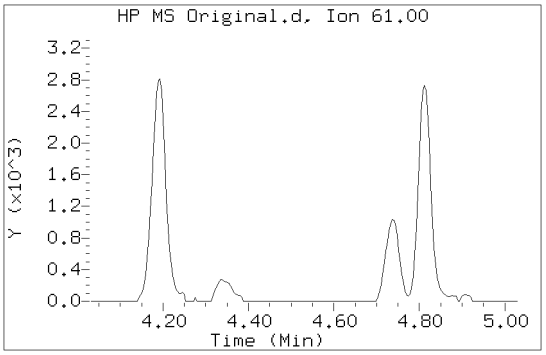
AFTER

MASS
43
AREA
1723
HEIGHT
754
29-Jun-2024
12:15
s
zaid



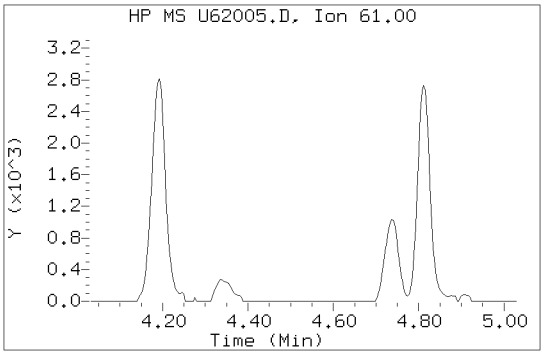
BEFORE

MASS
61
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



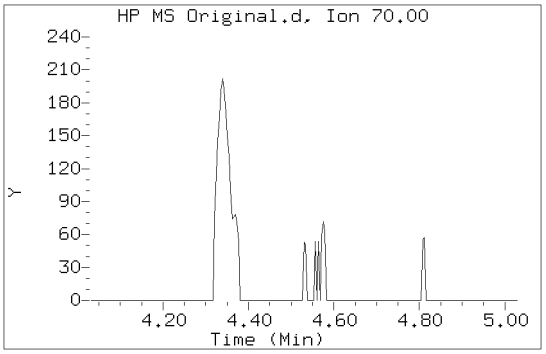
AFTER

MASS
61
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



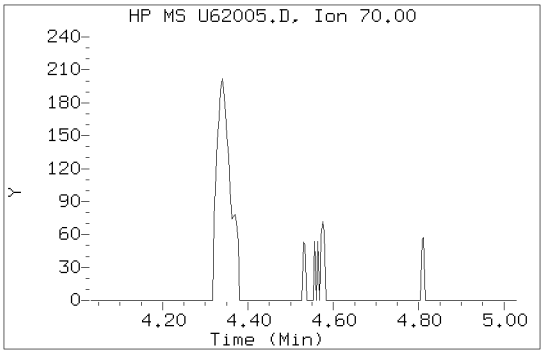
BEFORE

MASS
70
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
70
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



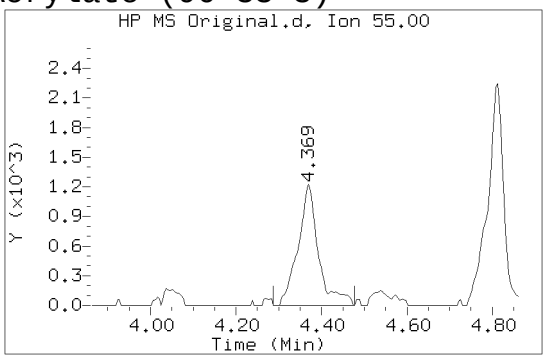
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62005.D
Inj Date : 20-JUN-2024 12:27
InstruID : VOA9.i
LabSampID : VSTD002

Methyl Acrylate (96-33-3)

Reason Code:

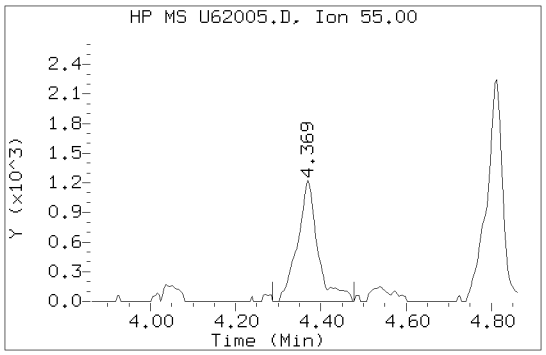
BEFORE

MASS
55
AREA
4100
HEIGHT
1225
29-Jun-2024
12:15
s
zaid



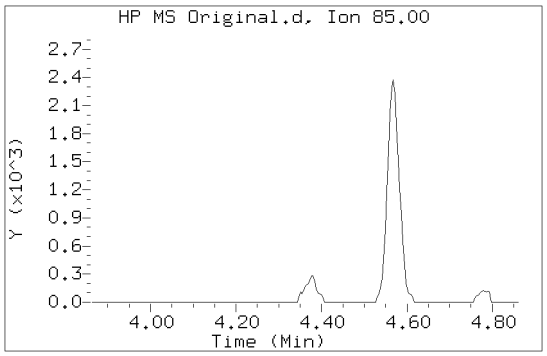
AFTER

MASS
55
AREA
4100
HEIGHT
1225
29-Jun-2024
12:15
s
zaid



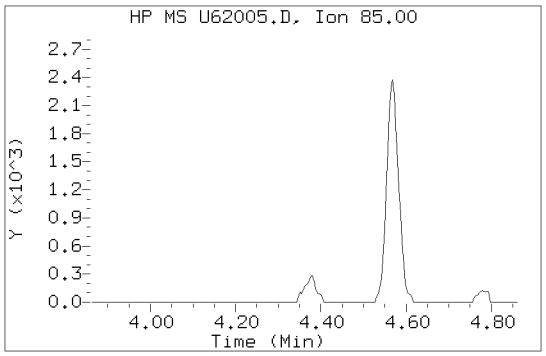
BEFORE

MASS
85
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
85
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid

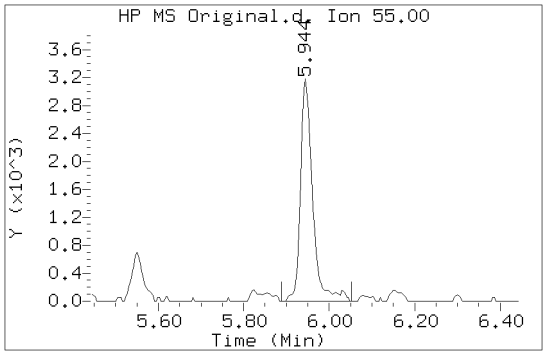


Ethyl Acrylate (140-88-5)

Reason Code:

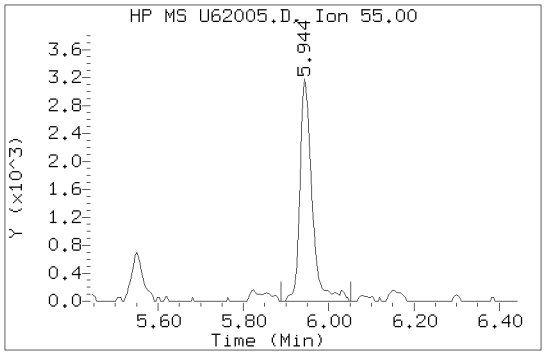
BEFORE

MASS
55
AREA
6440
HEIGHT
3181
29-Jun-2024
12:15
s
zaid



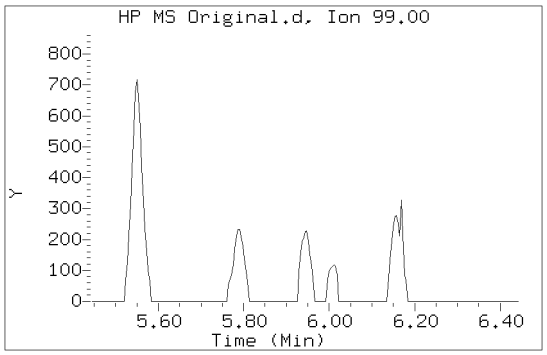
AFTER

MASS
55
AREA
6440
HEIGHT
3181
29-Jun-2024
12:15
s
zaid



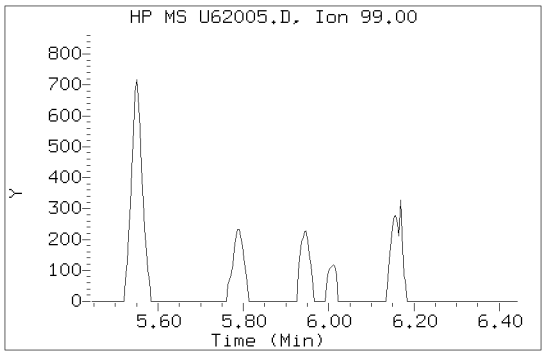
BEFORE

MASS
99
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
99
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid

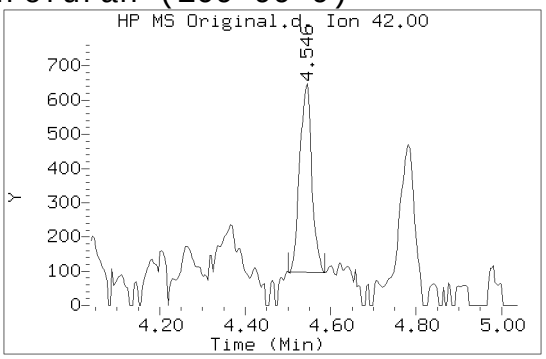


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62005.D
Inj Date : 20-JUN-2024 12:27
InstruID : VOA9.i
LabSampID : VSTD002

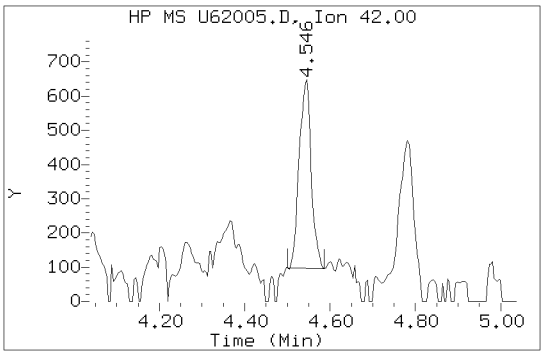
Tetrahydrofuran (109-99-9)

Reason Code:

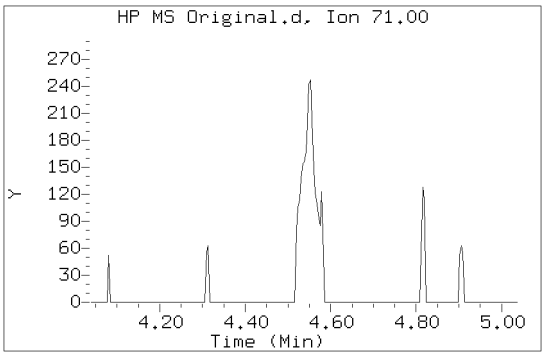
BEFORE
MASS
42
AREA
1103
HEIGHT
552
29-Jun-2024
12:15
s
zaid



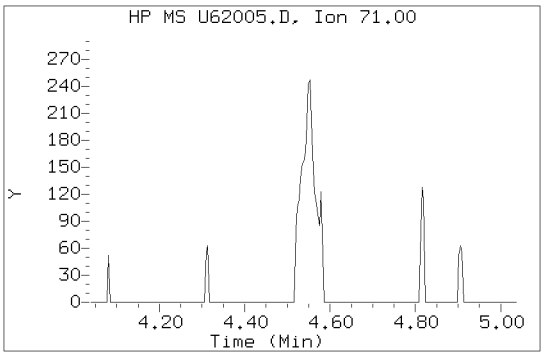
AFTER
MASS
42
AREA
1103
HEIGHT
552
29-Jun-2024
12:15
s
zaid



BEFORE
MASS
71
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



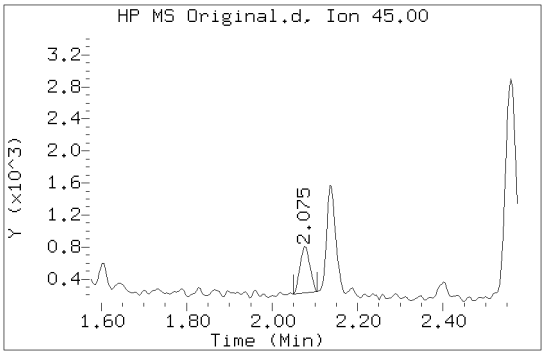
AFTER
MASS
71
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



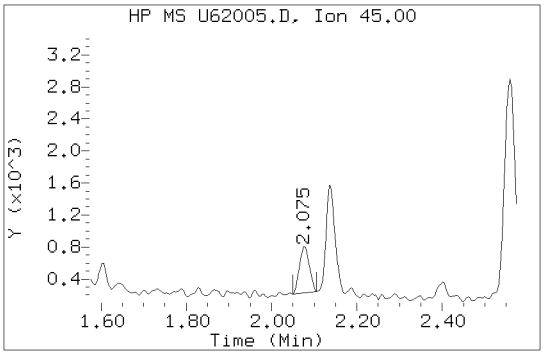
Ethanol (64-17-5)

Reason Code:

BEFORE
MASS
45
AREA
951
HEIGHT
577
29-Jun-2024
12:15
s
zaid



AFTER
MASS
45
AREA
951
HEIGHT
577
29-Jun-2024
12:15
s
zaid



BEFORE
MASS
46
AREA
0
HEIGHT
0
29-Jun-2024
12:15
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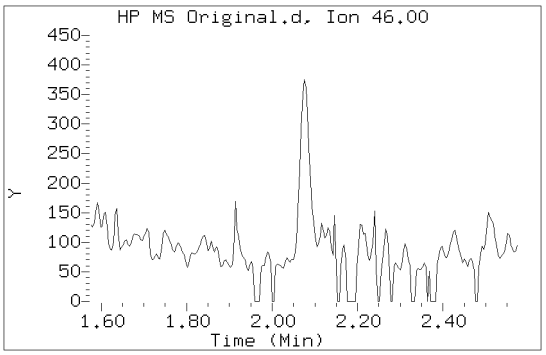
zaid



AFTER
MASS
46
AREA
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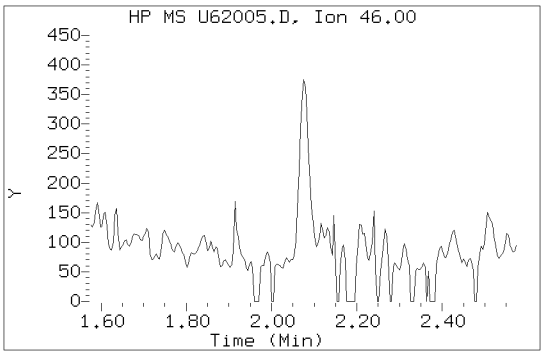
HEIGHT
0
29-Jun-2024
12:15
s
zaid



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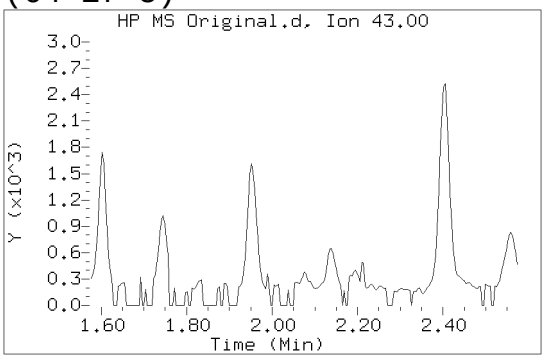
Inj Date : 20-JUN-2024 12:27
InstruID : VOA9.i
LabSampID : VSTD002

Ethanol (64-17-5)

Reason Code:

BEFORE

MASS
43
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
43
AREA
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HEIGHT
0
29-Jun-2024
12:15
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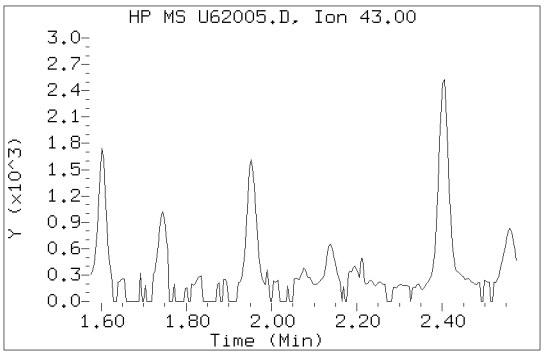
zaid

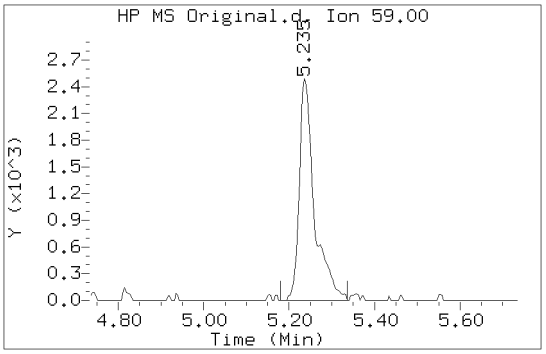


tert-Butyl formate (762-75-4)

Reason Code:

BEFORE

MASS
59
AREA
6189
HEIGHT
2490
29-Jun-2024
12:15
s
zaid



AFTER

MASS
59
AREA
6189
HEIGHT
2490
29-Jun-2024
12:15
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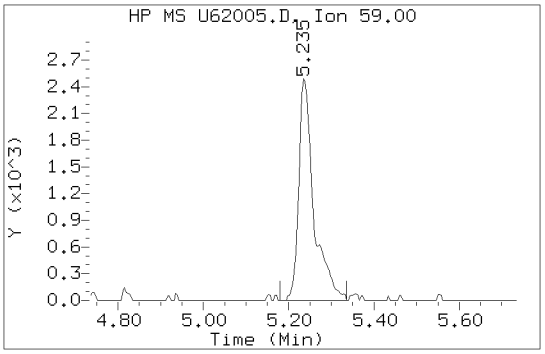
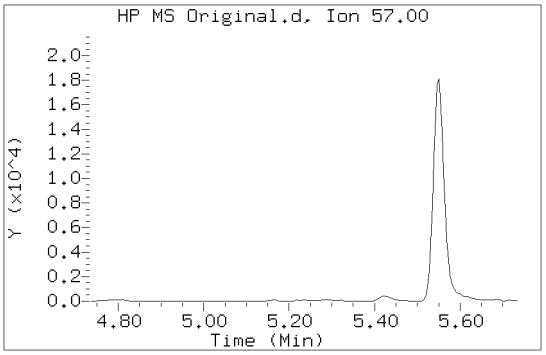
zaid



BEFORE

MASS
57
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
57
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HEIGHT
0
29-Jun-2024
12:15
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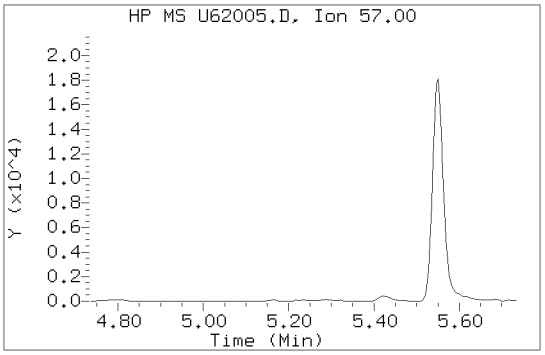
zaid



BEFORE

MASS
41
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HEIGHT
0
29-Jun-2024
12:15
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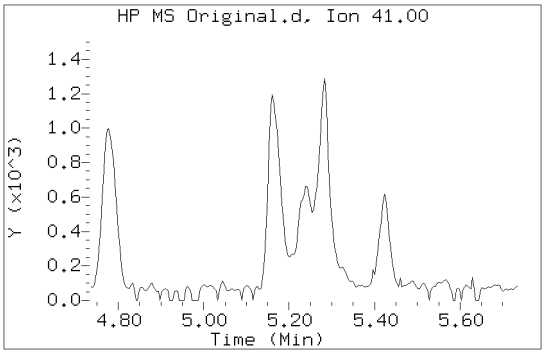
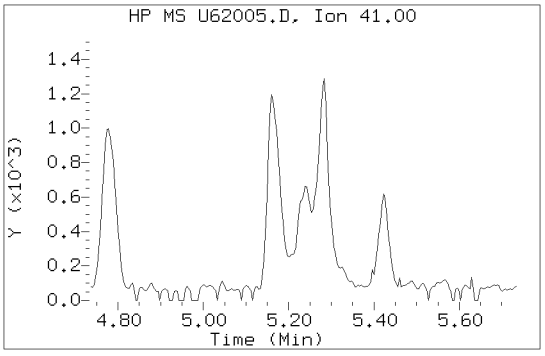
zaid



AFTER

MASS
41
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



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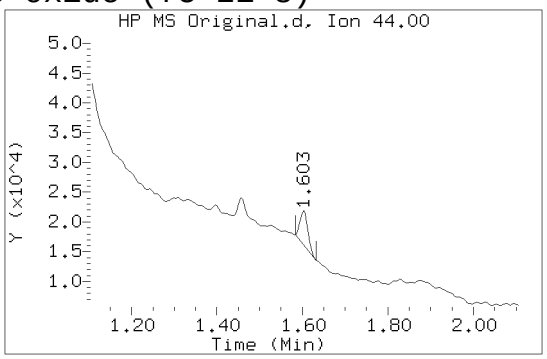
Inj Date : 20-JUN-2024 12:27
InstruID : VOA9.i
LabSampID : VSTD002

Ethylene oxide (75-21-8)

Reason Code:

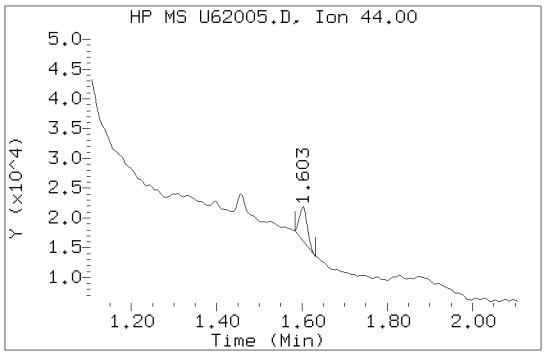
BEFORE

MASS
44
AREA
7361
HEIGHT
5698
29-Jun-2024
12:15
s
zaid



AFTER

MASS
44
AREA
7361
HEIGHT
5698
29-Jun-2024
12:15
s
zaid

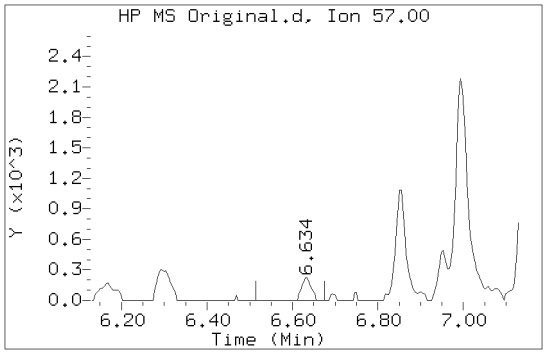


Epichlorohydrin (106-89-8)

Reason Code:

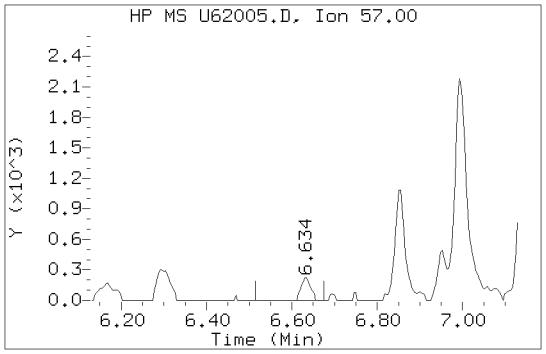
BEFORE

MASS
57
AREA
356
HEIGHT
225
29-Jun-2024
12:15
s
zaid



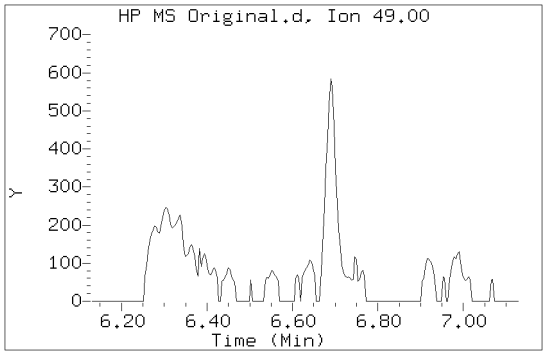
AFTER

MASS
57
AREA
356
HEIGHT
225
29-Jun-2024
12:15
s
zaid



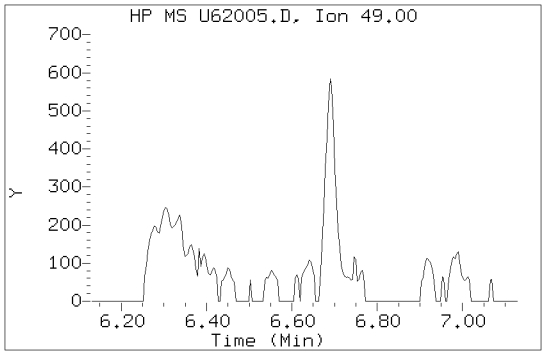
BEFORE

MASS
49
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
49
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid

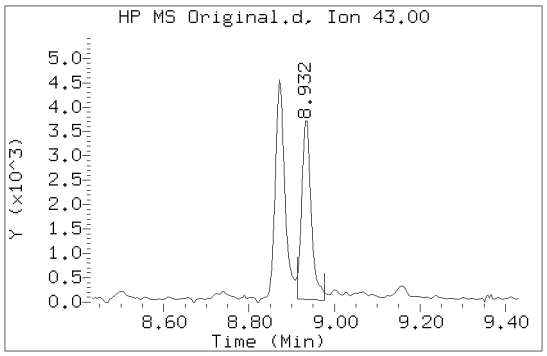


n-Amyl acetate (628-63-7)

Reason Code:

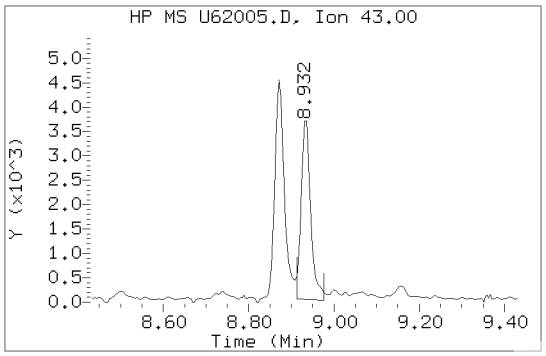
BEFORE

MASS
43
AREA
5895
HEIGHT
3656
29-Jun-2024
12:15
s
zaid



AFTER

MASS
43
AREA
5895
HEIGHT
3656
29-Jun-2024
12:15
s
zaid



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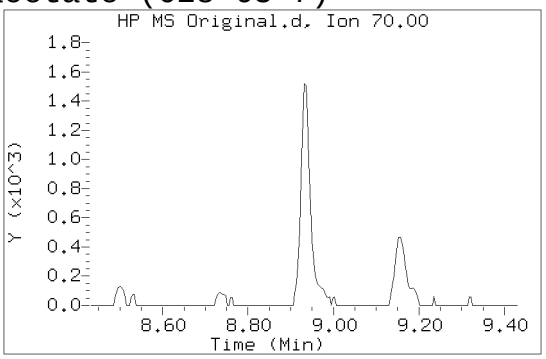
Inj Date : 20-JUN-2024 12:27
InstruID : VOA9.i
LabSampID : VSTD002

n-Amyl acetate (628-63-7)

Reason Code:

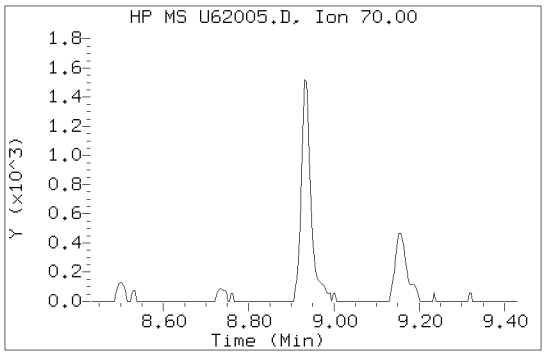
BEFORE

MASS
70
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



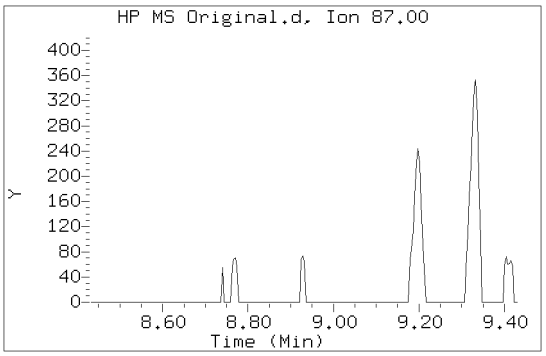
AFTER

MASS
70
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



BEFORE

MASS
87
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
87
AREA
0
HEIGHT
0
29-Jun-2024
12:15
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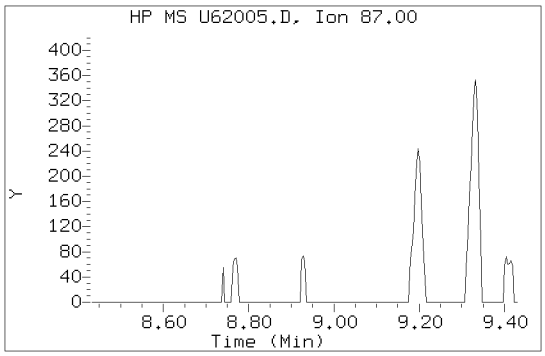
zaid



Acetaldehyde (75-07-0)

Reason Code:

BEFORE

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AREA
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HEIGHT
3083
29-Jun-2024
12:15
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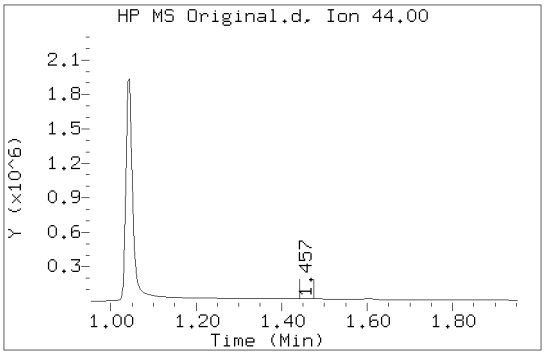
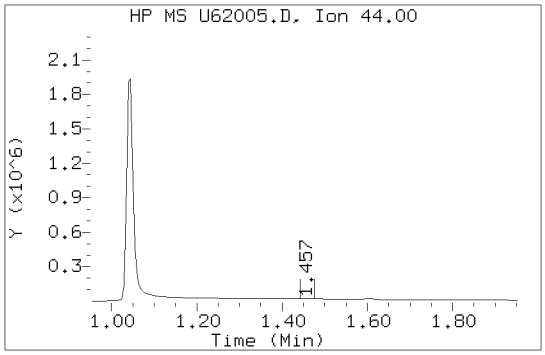
zaid



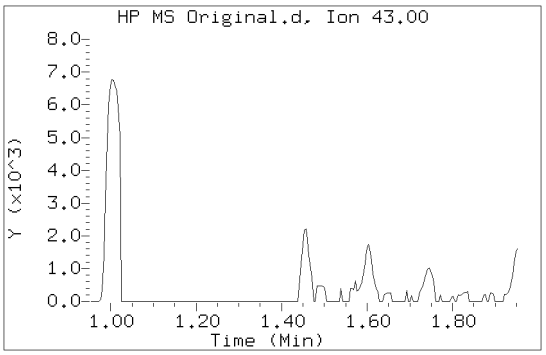
AFTER

MASS
44
AREA
3065
HEIGHT
3083
29-Jun-2024
12:15
s
zaid



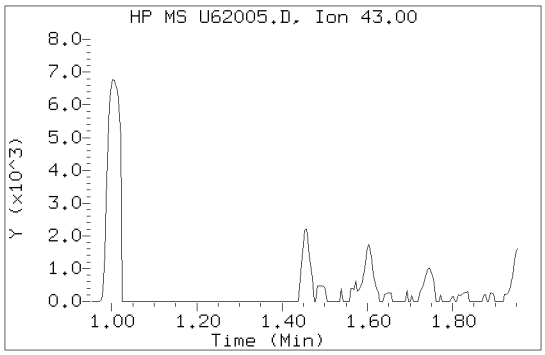
BEFORE

MASS
43
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
43
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62005.D
Inj Date : 20-JUN-2024 12:27
InstruID : VOA9.i
LabSampID : VSTD002

Acetaldehyde (75-07-0)

Reason Code:

BEFORE

MASS
42
AREA
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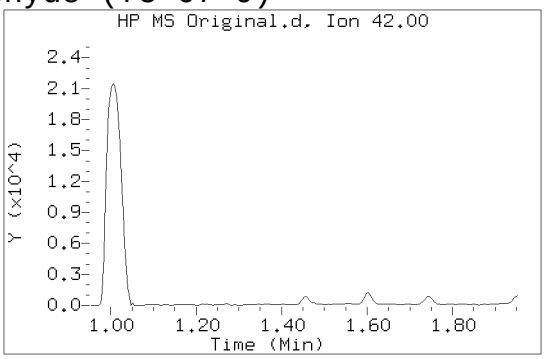
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
42
AREA
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HEIGHT
0
29-Jun-2024
12:15
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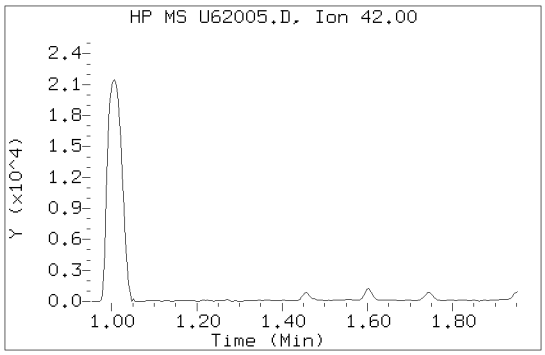
zaid

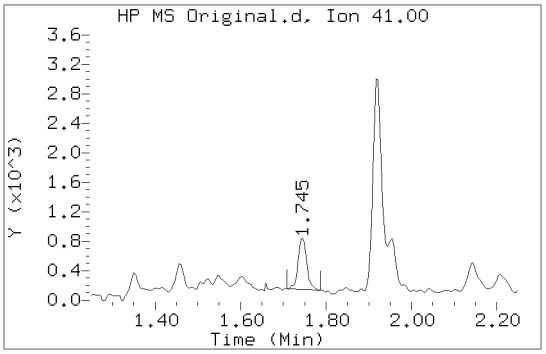


Isobutylene (115-11-7)

Reason Code:

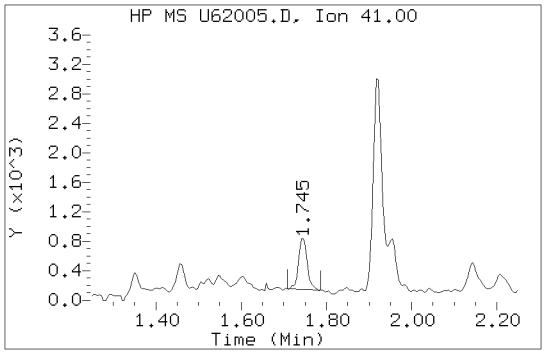
BEFORE

MASS
41
AREA
1008
HEIGHT
688
29-Jun-2024
12:15
s
zaid



AFTER

MASS
41
AREA
1008
HEIGHT
688
29-Jun-2024
12:15
s
zaid



BEFORE

MASS
56
AREA
0
HEIGHT
0
29-Jun-2024
12:15
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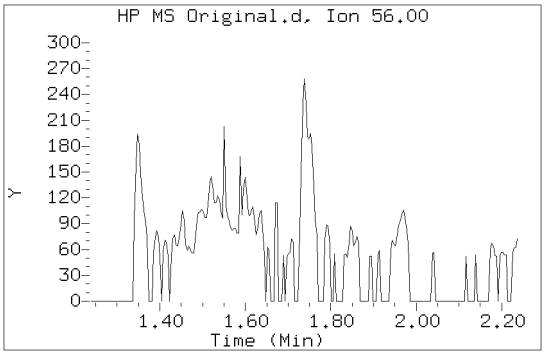
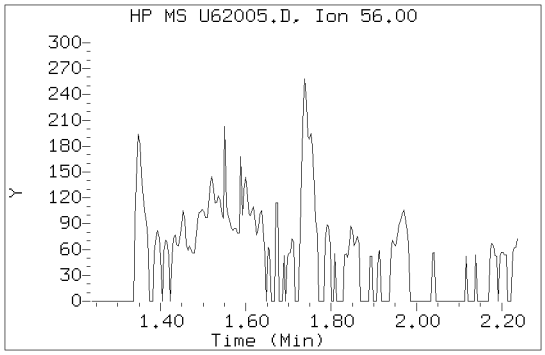
zaid



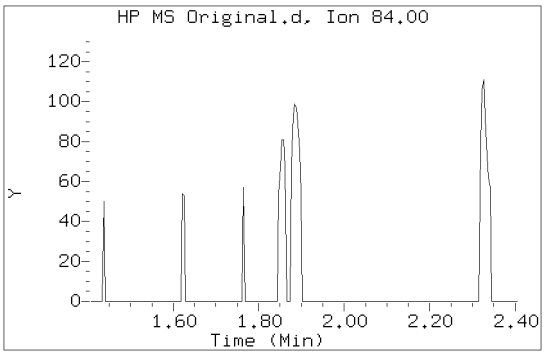
AFTER

MASS
56
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



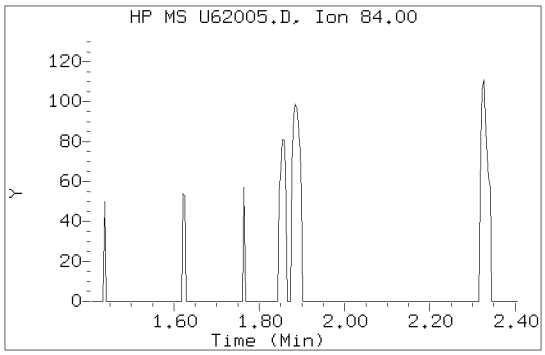
BEFORE

MASS
84
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
84
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



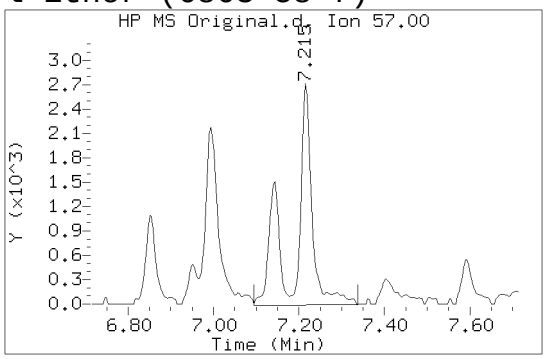
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62005.D
Inj Date : 20-JUN-2024 12:27
InstruID : VOA9.i
LabSampID : VSTD002

sec-Butyl Ether (6863-58-7)

Reason Code:

BEFORE

MASS
57
AREA
7764
HEIGHT
2727
29-Jun-2024
12:15
s
zaid



AFTER

MASS
57
AREA
7764
HEIGHT
2727
29-Jun-2024
12:15
s
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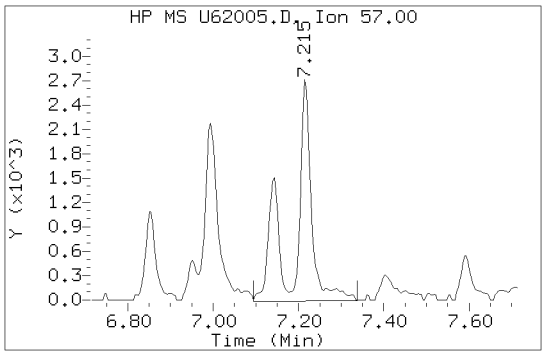
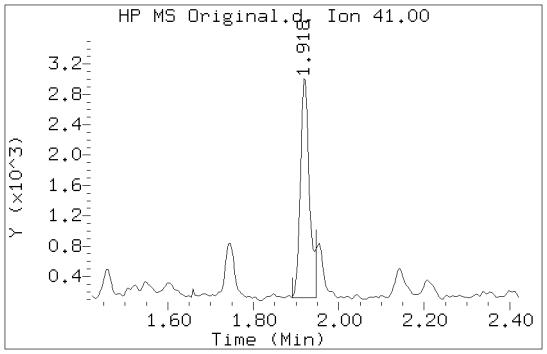


2-Chloropropene (557-98-2)

Reason Code:

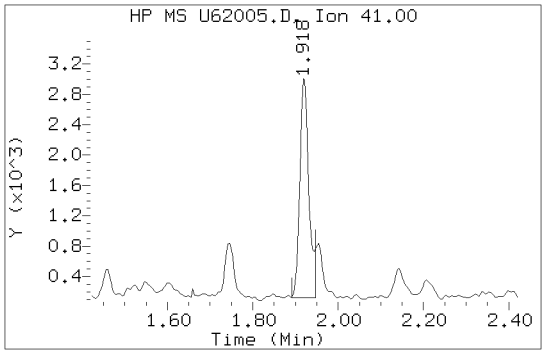
BEFORE

MASS
41
AREA
4413
HEIGHT
2889
29-Jun-2024
12:15
s
zaid



AFTER

MASS
41
AREA
4413
HEIGHT
2889
29-Jun-2024
12:15
s
zaid



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62006.D Page 1
Report Date: 29-Jun-2024 12:15

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62006.D
Lab Smp Id: VSTD005 Client Smp ID: VSTD005
Inj Date : 20-JUN-2024 12:49
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\U240620.b\8260C.m
Meth Date : 29-Jun-2024 12:15 VOA9.i Quant Type: ISTD
Cal Date : 20-JUN-2024 12:27 Cal File: U62005.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: NAHSTW7014

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)	235440	50.0000	
2	Dichlorodifluoromethane	85	1.171	1.171	(0.243)	9738	5.00000	5.79(M)
3	Chloromethane	50	1.303	1.303	(0.270)	23869	5.00000	4.90
4	Propionitrile	54	4.343	4.343	(0.901)	10856	50.0000	44.48(a)
5	Vinyl Chloride	62	1.385	1.385	(0.288)	11209	5.00000	5.48(M)
6	Bromomethane	94	1.625	1.625	(0.337)	5361	5.00000	4.99
7	Chloroethane	64	1.708	1.708	(0.354)	7341	5.00000	4.94
8	Trichlorofluoromethane	101	1.899	1.899	(0.394)	12979	5.00000	5.75
9	Acrolein	56	2.266	2.266	(0.470)	1238	10.0000	11.77(aM)
10	Acetone	43	2.416	2.416	(0.501)	8644	10.0000	7.66
11	1,1-Dichloroethene	96	2.337	2.337	(0.485)	7483	5.00000	5.44
12	Isobutyl Alcohol	43	5.288	5.288	(1.097)	21139	100.000	90.94(a)
13	Acetonitrile	39	2.675	2.675	(0.555)	9127	50.0000	41.35(a)
14	Allyl Chloride	41	2.678	2.678	(0.556)	21197	5.00000	4.51(a)
15	Iodomethane	142	2.472	2.472	(0.513)	4981	10.0000	10.28
16	Acrylonitrile	53	3.072	3.072	(0.638)	6082	10.0000	10.13
17	Methylene Chloride	84	2.798	2.798	(0.581)	11392	5.00000	5.33
18	Methyl tert-butyl ether	73	3.083	3.083	(0.640)	19601	5.00000	5.21
19	Carbon Disulfide	76	2.525	2.525	(0.524)	38596	10.0000	10.19
20	trans-1,2-Dichloroethene	96	3.061	3.061	(0.635)	8011	5.00000	5.02

21 Vinyl Acetate	43	4.347	4.347 (0.902)	8018	10.0000	9.47(M)
22 1,1-Dichloroethane	63	3.514	3.514 (0.729)	15421	5.00000	4.95

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62006.D Page 2
Report Date: 29-Jun-2024 12:15

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	3.616	3.616	(0.750)	12911	5.00000	5.30
	24 2-Butanone	43	4.272	4.272	(0.886)	7854	10.0000	9.75
	25 Methacrylonitrile	41	4.500	4.500	(0.934)	4226	5.00000	4.84(a)
	26 2,2-Dichloropropane	77	4.182	4.182	(0.868)	10989	5.00000	5.57
	27 cis-1,2-Dichloroethene	96	4.200	4.200	(0.872)	9100	5.00000	5.01
	28 Chloroform	83	4.575	4.575	(0.949)	15346	5.00000	4.72
	29 Bromochloromethane	128	4.470	4.470	(0.928)	4848	5.00000	5.14
$	30 Dibromofluoromethane	113	4.751	4.751	(0.986)	7835	5.00000	5.00
	31 1,1,1-Trichloroethane	97	4.744	4.744	(0.984)	11492	5.00000	5.25
	32 1,1-Dichloropropene	75	4.924	4.924	(0.887)	10630	5.00000	4.99(M)
	33 1,2-Dichloroethane	62	5.179	5.179	(0.933)	12903	5.00000	4.68
	34 Carbon Tetrachloride	117	4.913	4.913	(0.885)	8999	5.00000	5.04(M)
$	35 1,2-Dichloroethane-d4	65	5.100	5.100	(1.058)	10343	5.00000	5.18
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	349034	50.0000	
	37 Benzene	78	5.141	5.141	(0.926)	34656	5.00000	4.82
	38 Trichloroethene	130	5.790	5.790	(1.043)	8866	5.00000	5.08
	39 Bromodichloromethane	83	6.277	6.277	(1.130)	9345	5.00000	4.60(a)
	40 Methyl Methacrylate	41	5.827	5.827	(1.209)	2768	5.00000	4.49(a)
	41 2-Chloroethylvinyl ether	63	6.577	6.577	(1.184)	225	10.0000	13.73(M)
	42 1,2-Dichloropropane	63	6.011	6.011	(1.082)	9205	5.00000	4.83(a)
	43 2-Nitropropane	43	6.510	6.510	(1.351)	1402	5.00000	3.76(aM)
	44 Dibromomethane	93	6.120	6.120	(1.102)	5487	5.00000	4.94(a)
	45 4-Methyl-2-Pentanone	43	6.854	6.854	(0.837)	16328	10.0000	9.37
	46 cis-1,3-Dichloropropene	75	6.693	6.693	(1.205)	10122	5.00000	4.26(a)
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	316123	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	29821	5.00000	4.86(a)
	49 Ethyl Methacrylate	69	7.289	7.289	(1.312)	9665	5.00000	4.36(a)
	50 Toluene	91	6.982	6.982	(0.853)	35567	5.00000	4.94(a)
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	7790	5.00000	5.67
	52 2-Hexanone	43	7.218	7.218	(0.882)	14994	10.0000	12.04
	53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	6986	5.00000	5.01
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	14375	5.00000	4.91(a)
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	6171	5.00000	4.24(a)
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	7122	5.00000	5.28
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	7426	5.00000	4.83(a)
	58 1-Chlorohexane	55	8.193	8.193	(1.475)	9239	5.00000	6.24
	59 Chlorobenzene	112	8.212	8.212	(1.003)	24286	5.00000	4.85(a)
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	7220	5.00000	4.66(a)
	61 Ethylbenzene	106	8.305	8.305	(1.015)	10793	5.00000	4.84(a)
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	24956	10.0000	9.38(a)
	63 o-Xylene	106	8.748	8.748	(1.069)	12227	5.00000	4.66(a)
	64 Styrene	104	8.763	8.763	(1.071)	19523	5.00000	4.45(a)
	66 Bromoform	173	8.920	8.920	(1.090)	3703	5.00000	4.75(Ta)
	67 Isopropylbenzene	105	9.062	9.062	(1.107)	32202	5.00000	4.95(a)
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	11238	5.00000	5.01
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	11651	5.00000	4.83(a)
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	171538	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	10668	5.00000	5.67
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	1932	5.00000	4.37(a)
	73 n-Propylbenzene	91	9.415	9.415	(0.926)	35088	5.00000	4.73(a)
	74 Bromobenzene	156	9.321	9.321	(0.916)	9708	5.00000	4.81(a)
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	19300	5.00000	4.99(a)

76	2-Chlorotoluene	91	9.482	9.482 (0.932)	25019	5.00000	4.98(a)
77	4-Chlorotoluene	91	9.576	9.576 (0.941)	26961	5.00000	4.73(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.838	9.838	(0.967)	22592	5.00000	4.99(a)
79	1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	23144	5.00000	4.23(aM)
81	sec-Butylbenzene	105	10.022	10.022	(0.985)	28993	5.00000	4.81(a)
82	p-Isopropyltoluene	119	10.146	10.146	(0.997)	22757	5.00000	5.44
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	17997	5.00000	4.85(a)
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	19458	5.00000	4.91(a)
86	Benzyl Chloride	91	10.311	10.311	(1.260)	34406	5.00000	7.76
87	n-Butylbenzene	91	10.494	10.494	(1.032)	22522	5.00000	5.61
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	17903	5.00000	4.84(a)
89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	1208	5.00000	4.96(a)
90	1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	10011	5.00000	4.48(a)
91	Hexachlorobutadiene	225	12.001	12.001	(1.180)	4937	5.00000	4.98(a)
92	Naphthalene	128	12.073	12.073	(1.187)	17811	5.00000	5.24
93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	9533	5.00000	4.66(a)
146	Methyl acetate	43	2.720	2.720	(0.564)	7064	5.00000	3.51(a)
138	Freon TF	101	2.337	2.337	(0.485)	7208	5.00000	5.23
141	Cyclohexane	56	4.785	4.785	(0.993)	15051	5.00000	5.79
142	Tetrahydrofuran	42	4.545	4.545	(0.943)	2459	10.0000	8.81
147	Methylcyclohexane	55	5.951	5.951	(1.072)	16598	5.00000	4.47(a)
135	1,4-Dioxane	88	6.168	6.168	(1.280)	2383	100.000	103.05
132	n-Butanol	56	5.831	5.831	(1.210)	4104	100.000	97.79(a)
136	n-Hexane	57	3.346	3.346	(0.694)	8771	5.00000	5.81
139	Diethyl ether	59	2.150	2.150	(0.446)	5732	5.00000	4.13(a)
148	Tert-butyl alcohol	59	2.975	2.975	(0.617)	14781	100.000	98.48
149	Isopropyl alcohol	45	2.570	2.570	(0.533)	10801	100.000	90.46(T)
156	Diisopropyl ether	45	3.623	3.623	(0.752)	25524	5.00000	4.49(Ta)
162	Butyl acrylate	55	8.736	8.736	(1.067)	12122	5.00000	4.16(a)
164	Dicyclopentadiene	66	10.202	10.202	(1.003)	35810	5.00000	4.82(a)
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	20377	5.00000	4.15(a)
167	Ethanol	45	2.086	2.086	(0.433)	1968	100.000	77.53
172	tert-Butyl formate	59	5.243	5.243	(1.088)	11690	10.0000	10.09(M)
151	4-Methyl-2-pentanol	45	7.218	7.218	(1.300)	40067	100.000	83.23
140	1,3-Butadiene	54	1.408	1.408	(0.292)	11141	5.00000	5.51
182	Epichlorohydrin	57	6.630	6.630	(1.194)	777	20.0000	18.19(M)
M 94	1,2-Dichloroethylene (total)	96				17111	10.0000	(a)
130	Ethyl Acetate	43	4.534	4.534	(0.941)	3383	5.00000	4.22(aM)
131	Methyl Acrylate	55	4.373	4.373	(0.907)	8952	5.00000	4.58(a)
189	n-Butyl acetate	43	7.705	7.705	(0.941)	12041	5.00000	4.77(a)
134	Cyclohexanone	55	9.156	9.156	(0.900)	8867	100.000	94.58(a)
185	Isoprene	39	2.161	2.161	(0.449)	1836	5.00000	5.37
188	Isopropyl acetate	43	5.288	5.288	(0.952)	21512	5.00000	4.60(a)
150	Allyl alcohol	57	3.346	3.346	(0.694)	8771	100.000	116.20
194	Acetaldehyde	44	1.468	1.468	(0.305)	9309	20.0000	23.65(M)
200	Dimethyl Disulfide	94	6.746	6.746	(0.824)	3175	5.00000	4.27(a)
202	Isobutylene	41	1.756	1.756	(0.364)	3625	5.00000	5.80(M)
133	Ethyl Acrylate	55	5.951	5.951	(1.235)	16566	5.00000	4.47(a)
163	Butyl methacrylate	41	9.651	9.651	(0.949)	7663	5.00000	3.85(a)
159	Propylene oxide	43	2.206	2.206	(0.458)	1225	10.0000	11.38
178	Ethylene oxide	44	1.614	1.614	(0.335)	17289	10.0000	9.89(M)
203	2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	5299	5.00000	4.17(a)
204	Tetrahydrothiophene	60	7.675	7.675	(0.938)	7905	5.00000	4.40(aA)
205	sec-Butyl Ether	57	7.218	7.218	(0.882)	15623	5.00000	4.42(aAM)

187 n-Amyl acetate	43	8.931	8.931 (1.091)	13473	5.00000	4.81(aM)
206 2-Chloropropene	41	1.932	1.932 (0.401)	11837	5.00000	4.89(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.

Data File: \\NAHSTMS005\Target\chem\voa9.i\U240620.b\U62006.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: TS
Column diameter: 0.18

Page 1

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62006.D
Inj Date : 20-JUN-2024 12:49
InstruID : VOA9.i
LabSampID : VSTD005

Dichlorodifluoromethane (75-71-8)

Reason Code:

BEFORE

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29-Jun-2024
12:15
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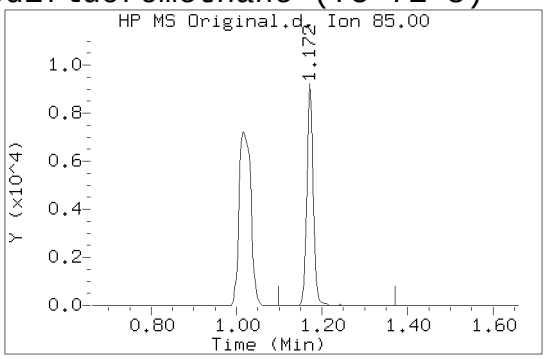

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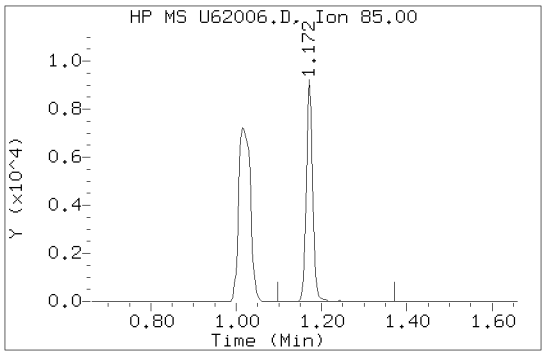

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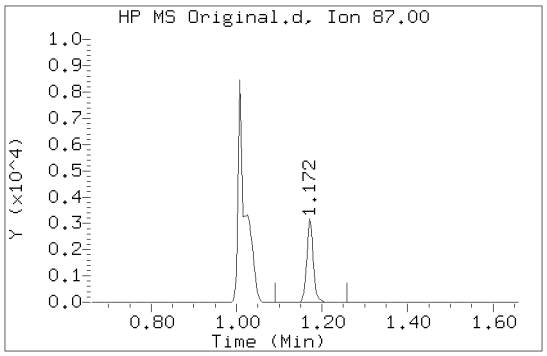

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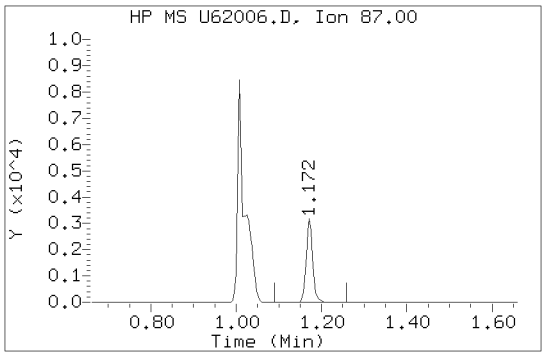

Vinyl Chloride (75-01-4)

Reason Code:

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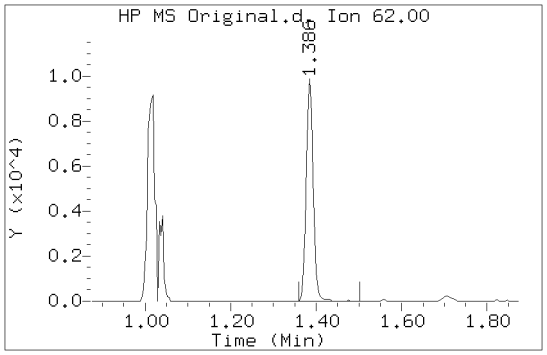

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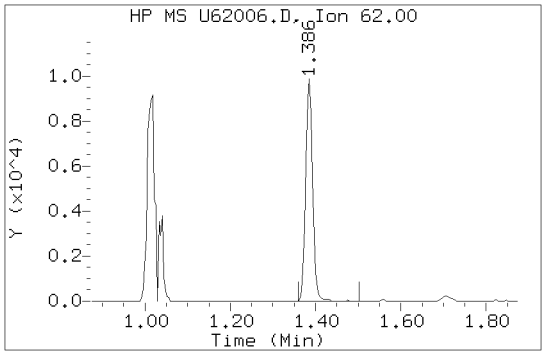

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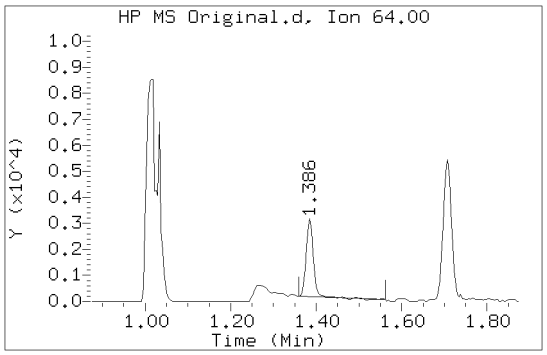

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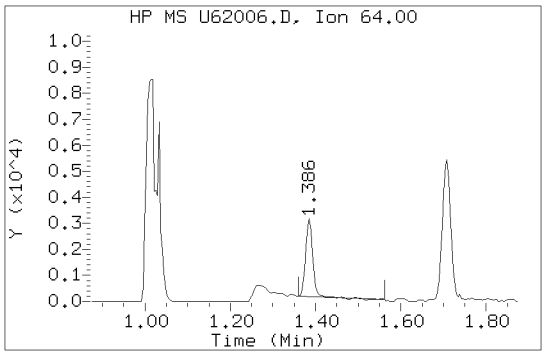

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Inj Date : 20-JUN-2024 12:49
InstruID : VOA9.i
LabSampID : VSTD005

1,1-Dichloropropene (563-58-6)

Reason Code:

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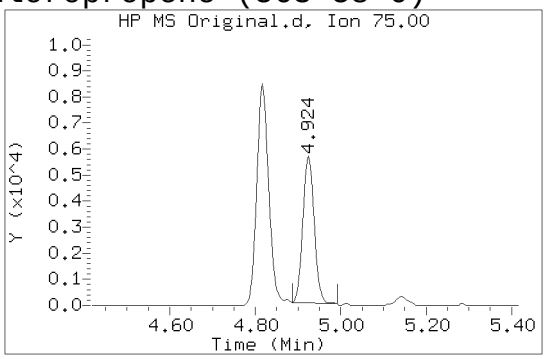

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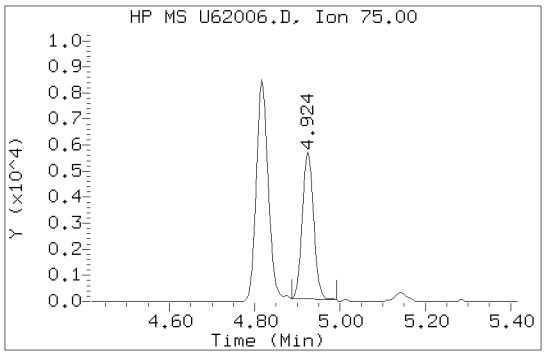

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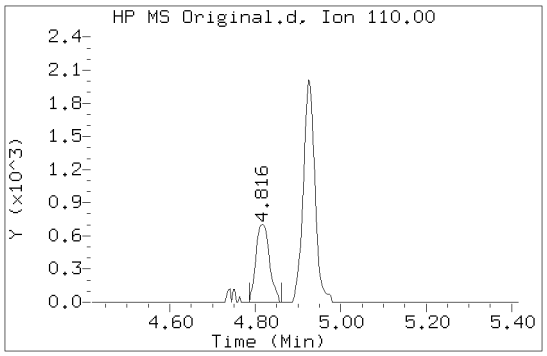

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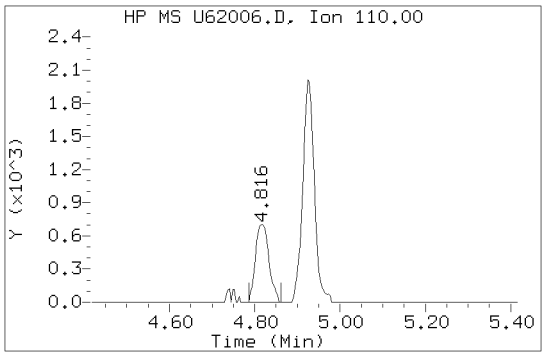

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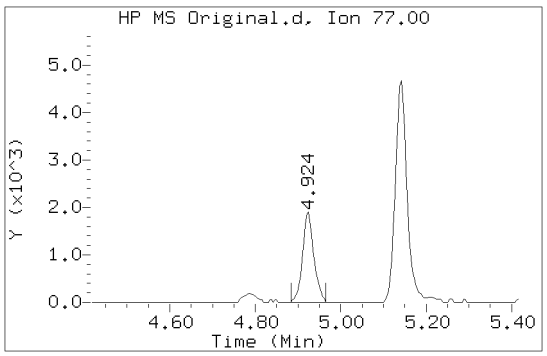

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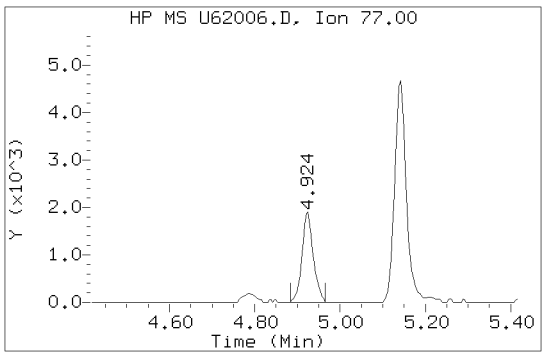
zaid

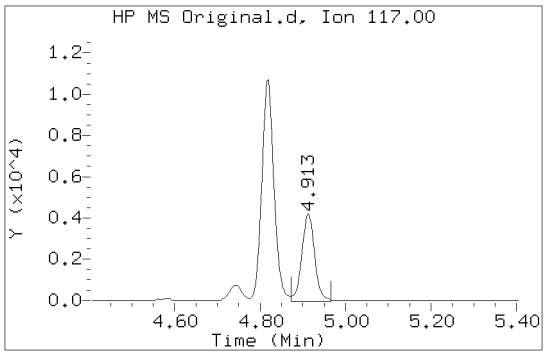


Carbon Tetrachloride (56-23-5)

Reason Code:

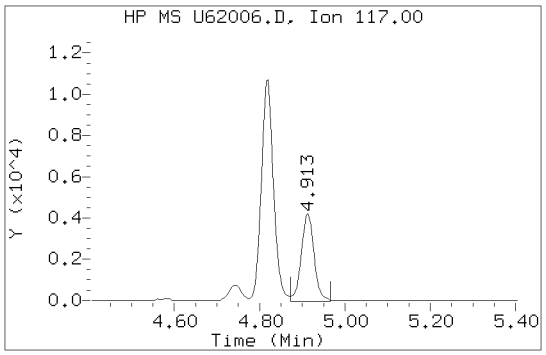
BEFORE

MASS
117
AREA
8999
HEIGHT
4266
29-Jun-2024
12:15
s
zaid



AFTER

MASS
117
AREA
8999
HEIGHT
4266
29-Jun-2024
12:15
s
zaid



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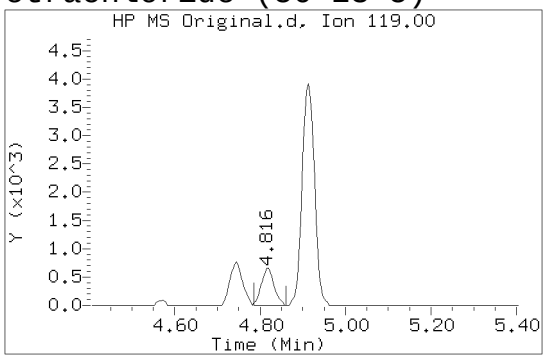
Inj Date : 20-JUN-2024 12:49
InstruID : VOA9.i
LabSampID : VSTD005

Carbon Tetrachloride (56-23-5)

BEFORE

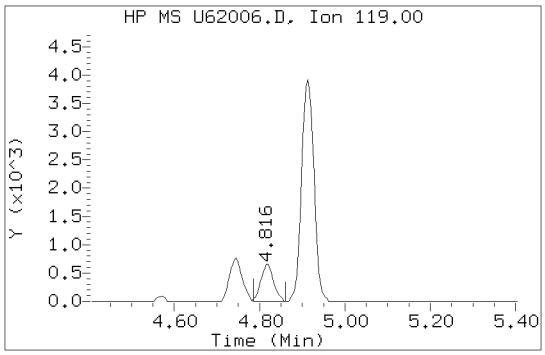
MASS
119
AREA
1350
HEIGHT
652
29-Jun-2024
12:15
s
zaid



Reason Code:

AFTER

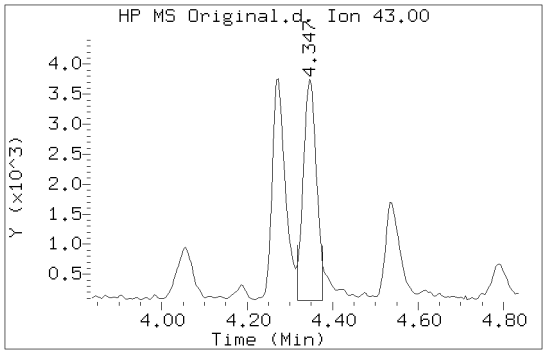
MASS
119
AREA
1350
HEIGHT
652
29-Jun-2024
12:15
s
zaid



Vinyl Acetate (108-05-4)

BEFORE

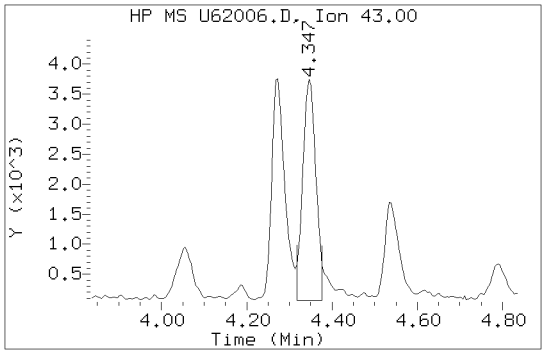
MASS
43
AREA
8018
HEIGHT
3684
29-Jun-2024
12:15
s
zaid



Reason Code:

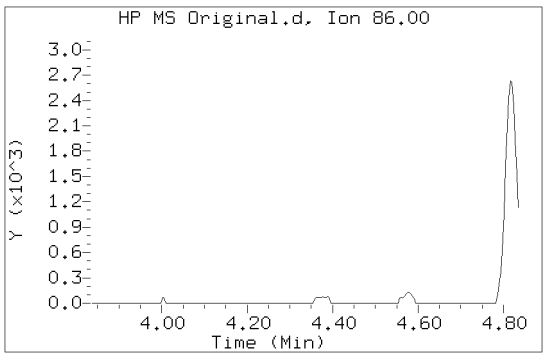
AFTER

MASS
43
AREA
8018
HEIGHT
3684
29-Jun-2024
12:15
s
zaid



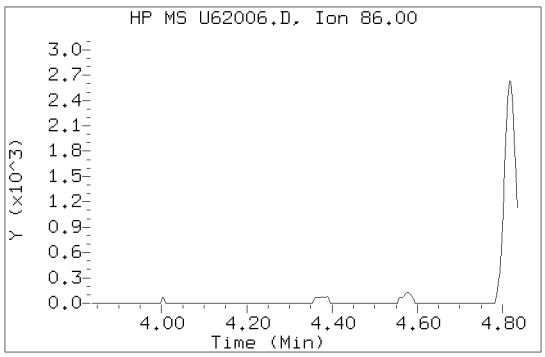
BEFORE

MASS
86
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

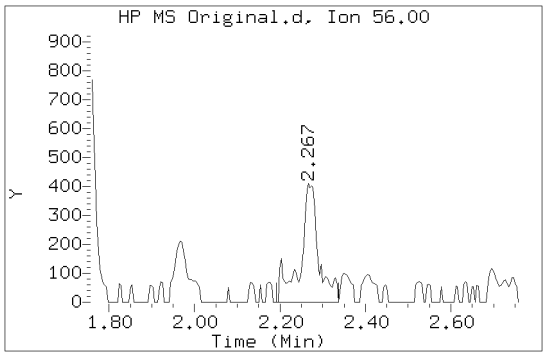
MASS
86
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



Acrolein (107-02-8)

BEFORE

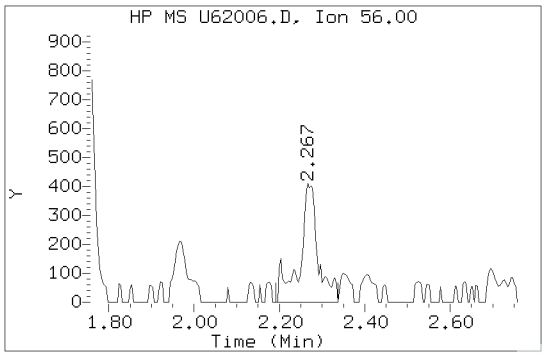
MASS
56
AREA
1238
HEIGHT
412
29-Jun-2024
12:15
s
zaid



Reason Code:

AFTER

MASS
56
AREA
1238
HEIGHT
412
29-Jun-2024
12:15
s
zaid



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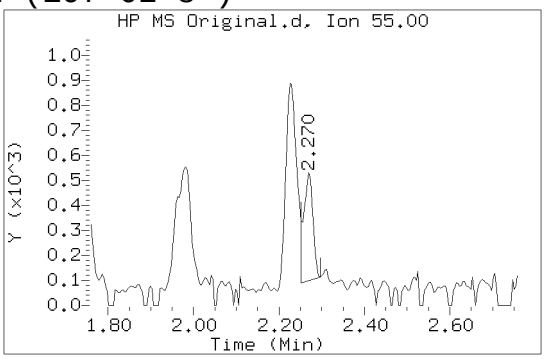
Inj Date : 20-JUN-2024 12:49
InstruID : VOA9.i
LabSampID : VSTD005

Acrolein (107-02-8)

Reason Code:

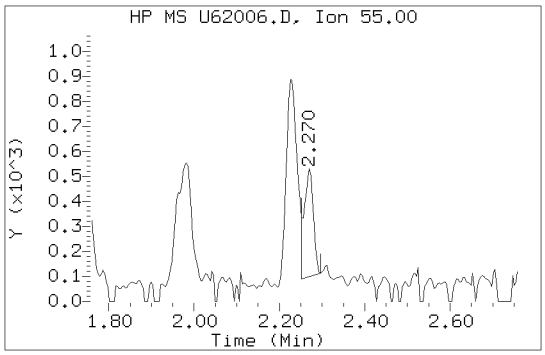
BEFORE

MASS
55
AREA
677
HEIGHT
430
29-Jun-2024
12:15
s
zaid



AFTER

MASS
55
AREA
677
HEIGHT
430
29-Jun-2024
12:15
s
zaid

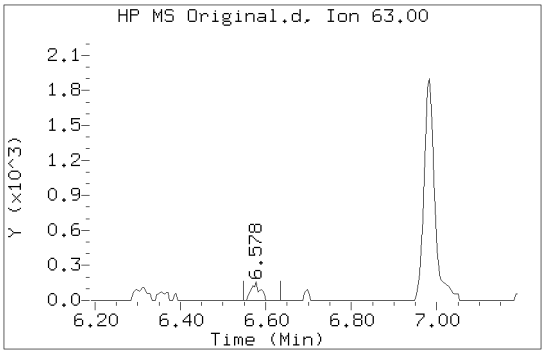


2-Chloroethylvinyl ether (110-75-8)

Reason Code:

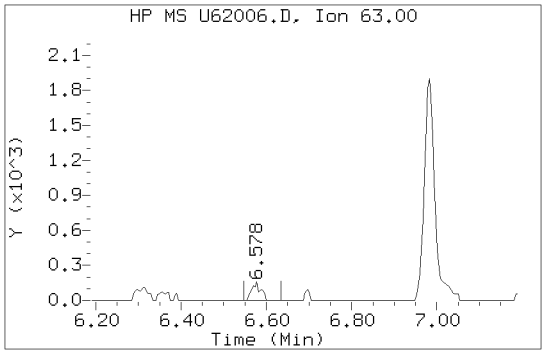
BEFORE

MASS
63
AREA
225
HEIGHT
162
29-Jun-2024
12:15
s
zaid



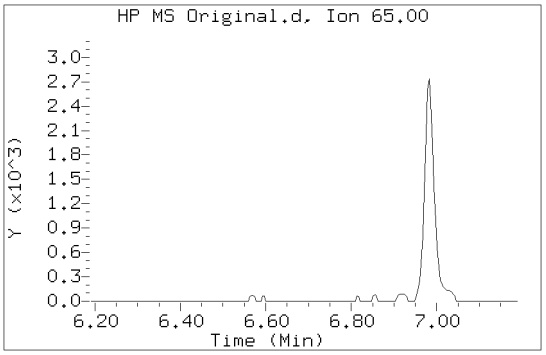
AFTER

MASS
63
AREA
225
HEIGHT
162
29-Jun-2024
12:15
s
zaid



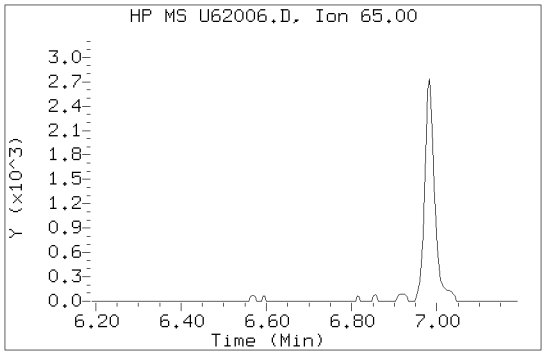
BEFORE

MASS
65
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



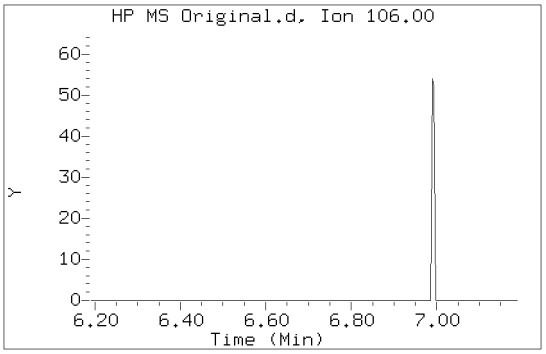
AFTER

MASS
65
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



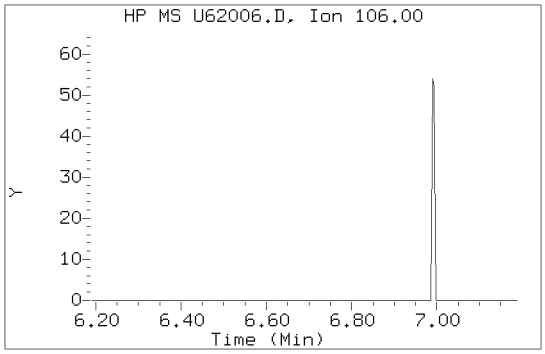
BEFORE

MASS
106
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
106
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



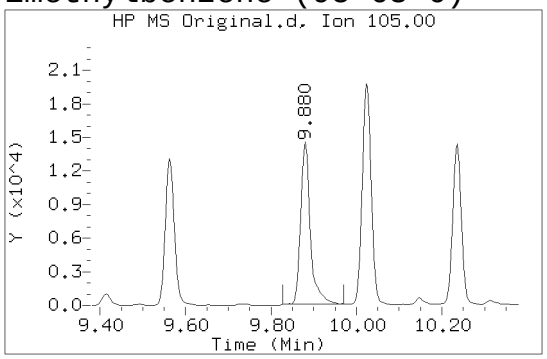
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62006.D
Inj Date : 20-JUN-2024 12:49
InstruID : VOA9.i
LabSampID : VSTD005

1,2,4-Trimethylbenzene (95-63-6)

Reason Code:

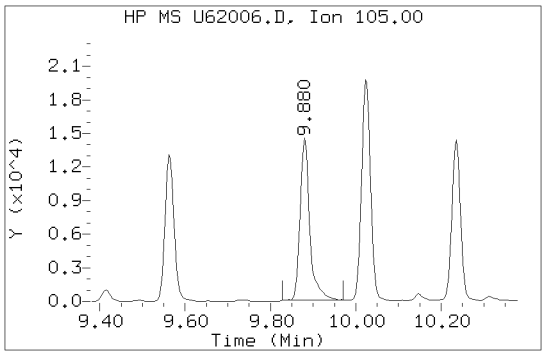
BEFORE

MASS
105
AREA
23144
HEIGHT
14484
29-Jun-2024
12:15
s
zaid



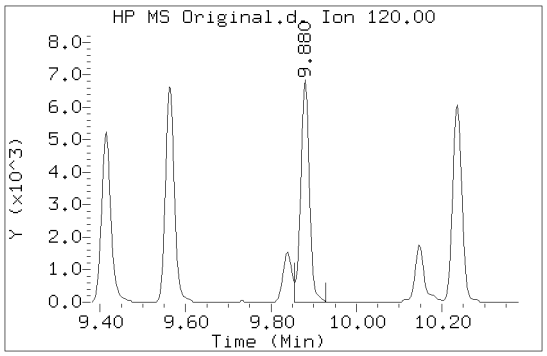
AFTER

MASS
105
AREA
23144
HEIGHT
14484
29-Jun-2024
12:15
s
zaid



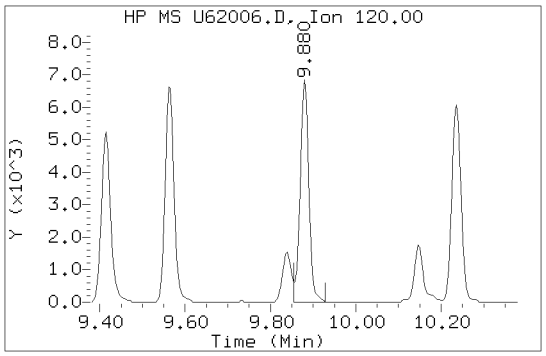
BEFORE

MASS
120
AREA
9913
HEIGHT
6845
29-Jun-2024
12:15
s
zaid



AFTER

MASS
120
AREA
9913
HEIGHT
6845
29-Jun-2024
12:15
s
zaid

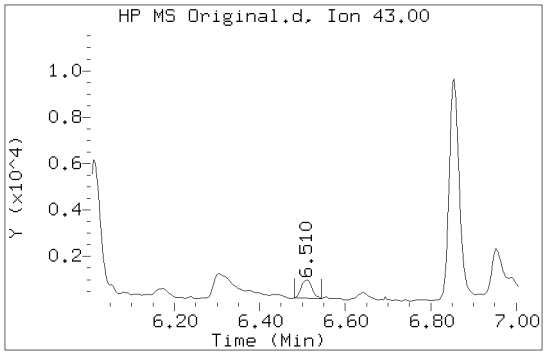


2-Nitropropane (79-46-9)

Reason Code:

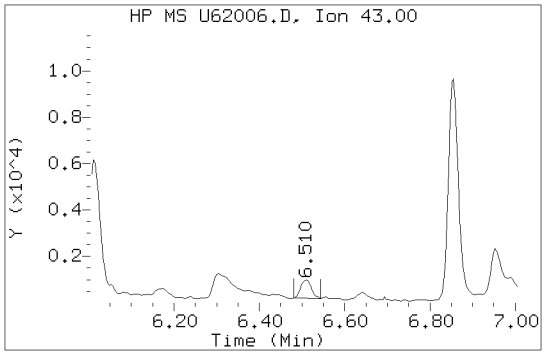
BEFORE

MASS
43
AREA
1402
HEIGHT
775
29-Jun-2024
12:15
s
zaid



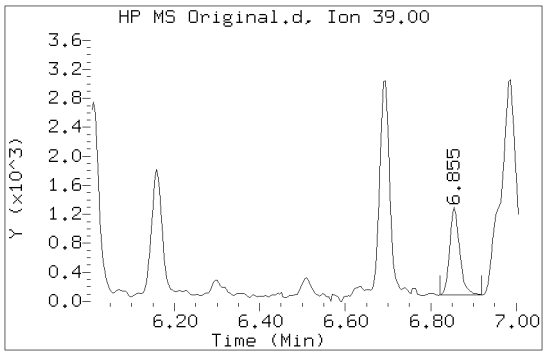
AFTER

MASS
43
AREA
1402
HEIGHT
775
29-Jun-2024
12:15
s
zaid



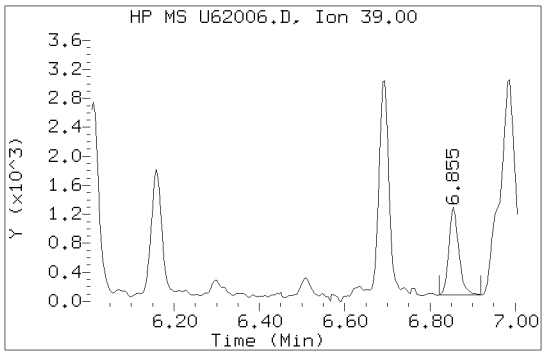
BEFORE

MASS
39
AREA
1960
HEIGHT
1216
29-Jun-2024
12:15
s
zaid



AFTER

MASS
39
AREA
1960
HEIGHT
1216
29-Jun-2024
12:15
s
zaid



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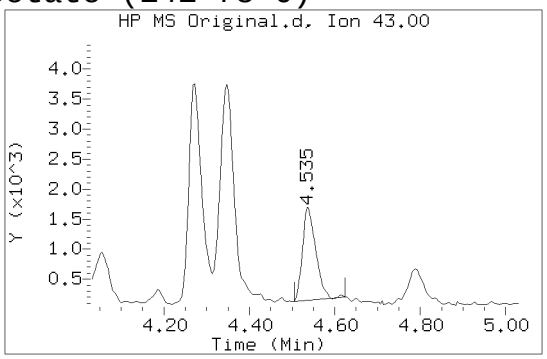
Inj Date : 20-JUN-2024 12:49
InstruID : VOA9.i
LabSampID : VSTD005

Ethyl Acetate (141-78-6)

Reason Code:

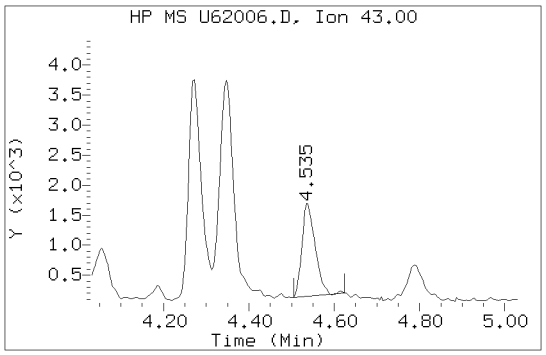
BEFORE

MASS
43
AREA
3383
HEIGHT
1548
29-Jun-2024
12:15
s
zaid



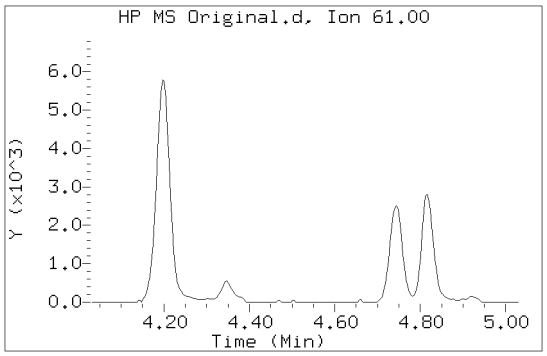
AFTER

MASS
43
AREA
3383
HEIGHT
1548
29-Jun-2024
12:15
s
zaid



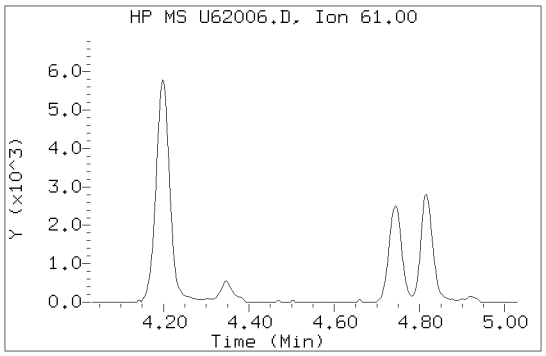
BEFORE

MASS
61
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



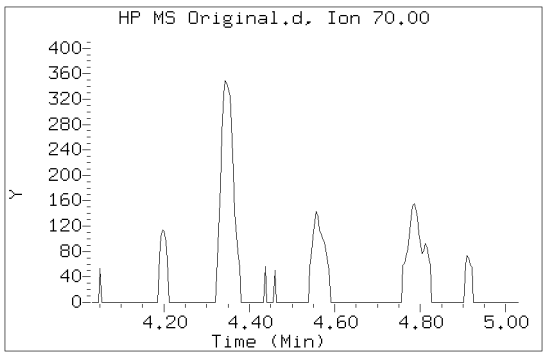
AFTER

MASS
61
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



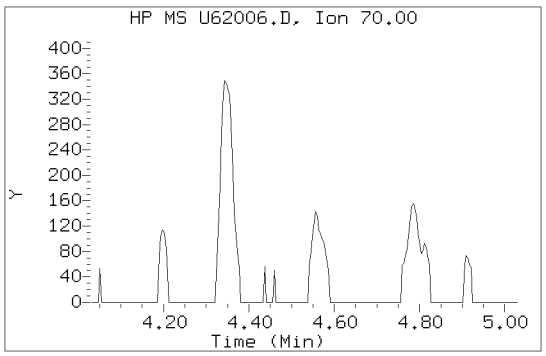
BEFORE

MASS
70
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
70
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid

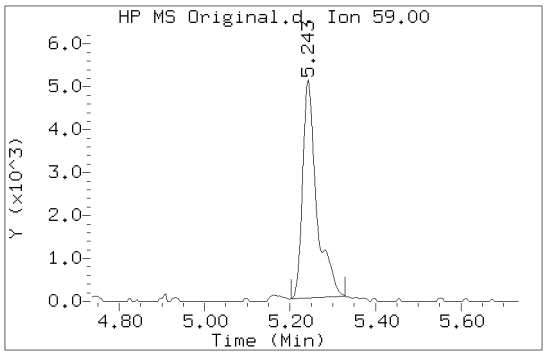


tert-Butyl formate (762-75-4)

Reason Code:

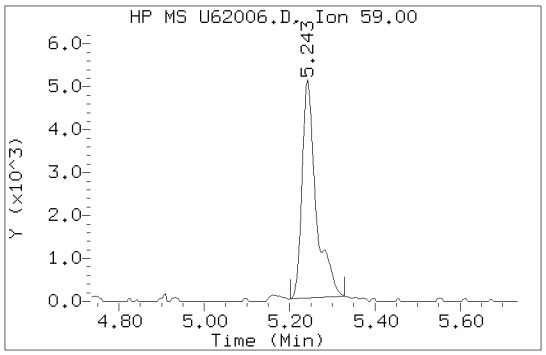
BEFORE

MASS
59
AREA
11690
HEIGHT
5087
29-Jun-2024
12:15
s
zaid



AFTER

MASS
59
AREA
11690
HEIGHT
5087
29-Jun-2024
12:15
s
zaid



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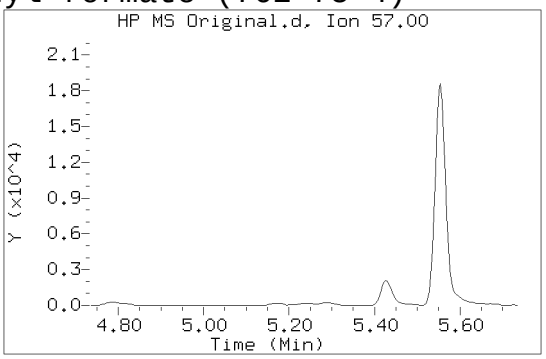
Inj Date : 20-JUN-2024 12:49
InstruID : VOA9.i
LabSampID : VSTD005

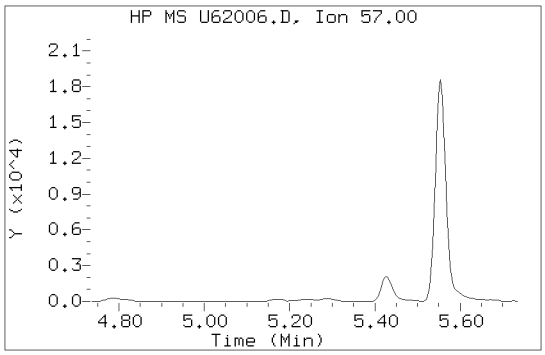
tert-Butyl formate (762-75-4)

Reason Code:

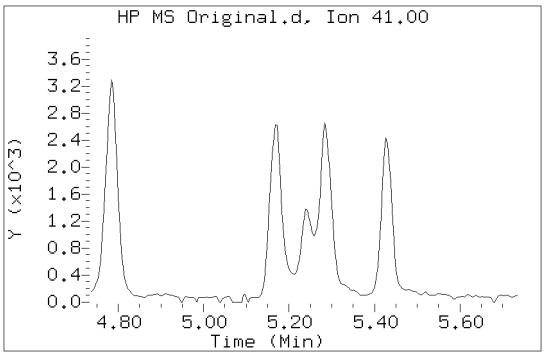
BEFORE
MASS
57
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



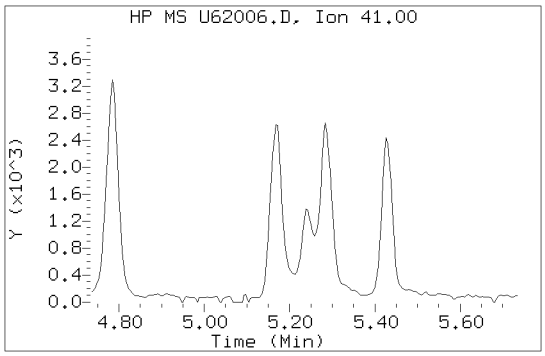
AFTER
MASS
57
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



BEFORE
MASS
41
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



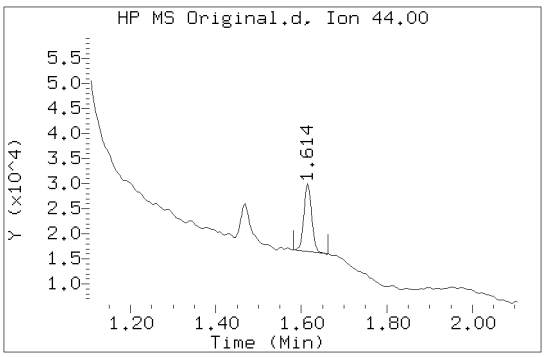
AFTER
MASS
41
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



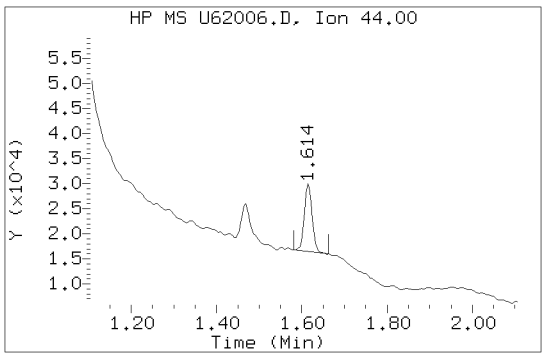
Ethylene oxide (75-21-8)

Reason Code:

BEFORE
MASS
44
AREA
17289
HEIGHT
13619
29-Jun-2024
12:15
s
zaid



AFTER
MASS
44
AREA
17289
HEIGHT
13619
29-Jun-2024
12:15
s
zaid



Epichlorohydrin (106-89-8)

Reason Code:

BEFORE
MASS
57
AREA
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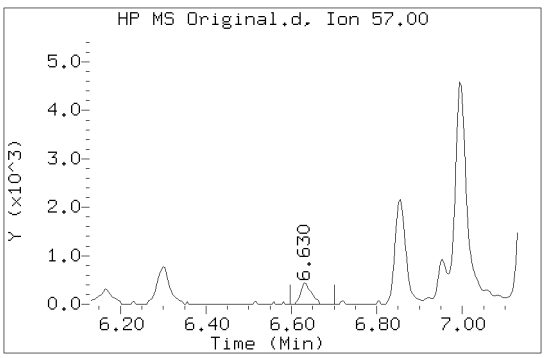

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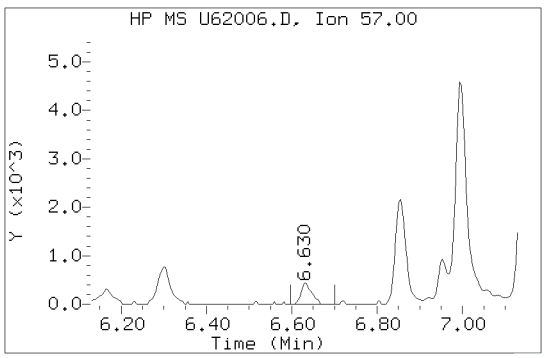

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LabSampID : VSTD005

Epichlorohydrin (106-89-8)

Reason Code:

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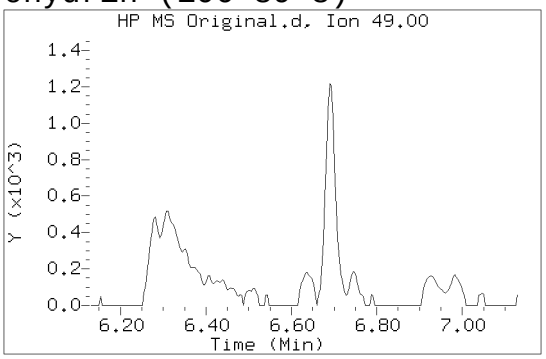

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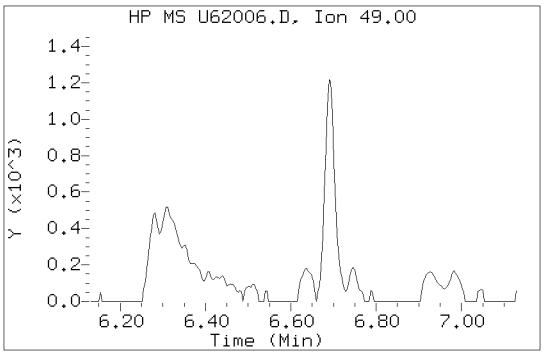

n-Amyl acetate (628-63-7)

Reason Code:

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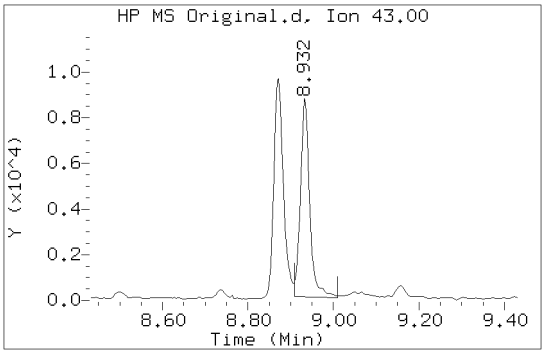

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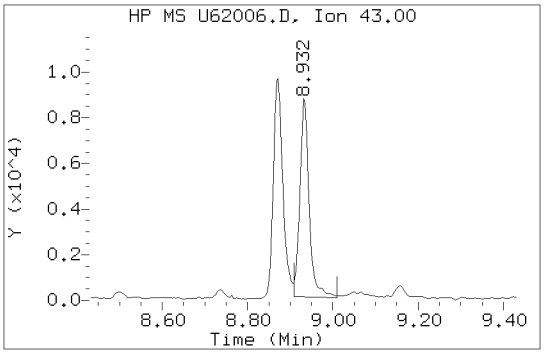

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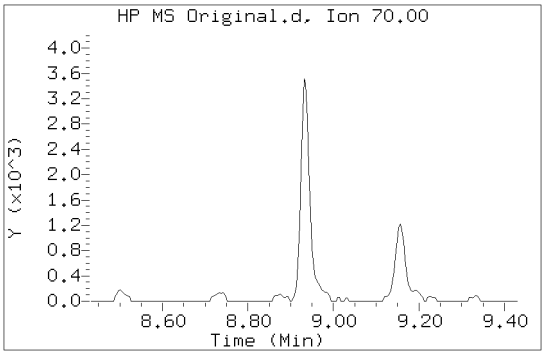

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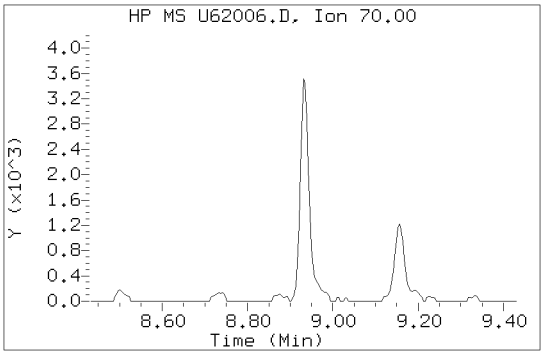

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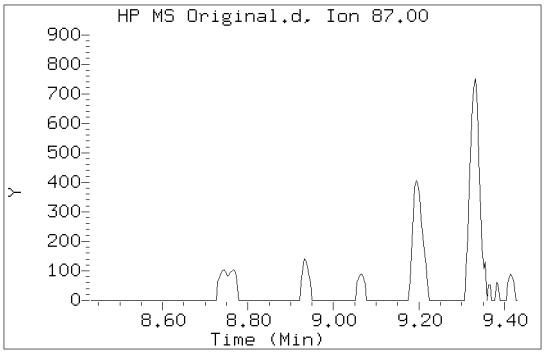

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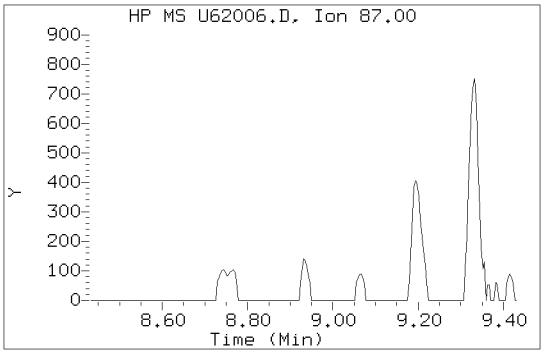

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InstruID : VOA9.i
LabSampID : VSTD005

Acetaldehyde (75-07-0)

Reason Code:

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12:15
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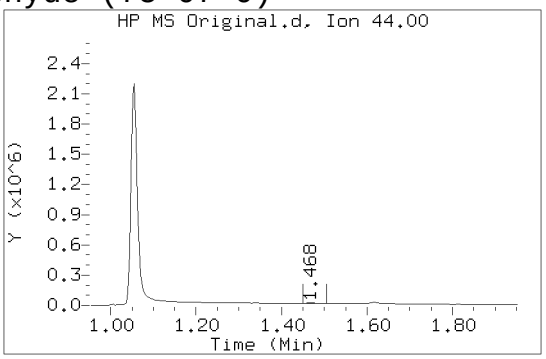

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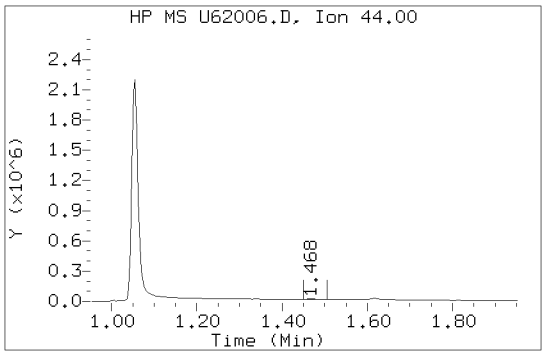

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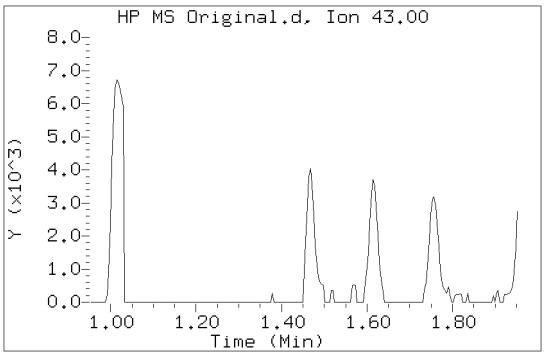

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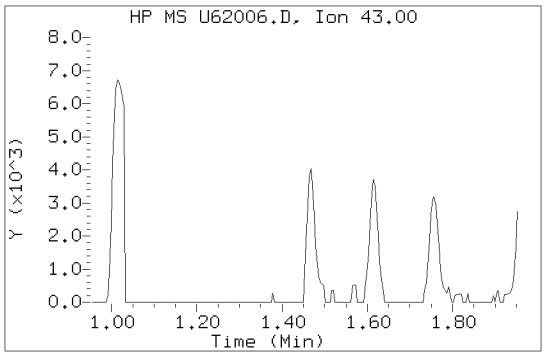

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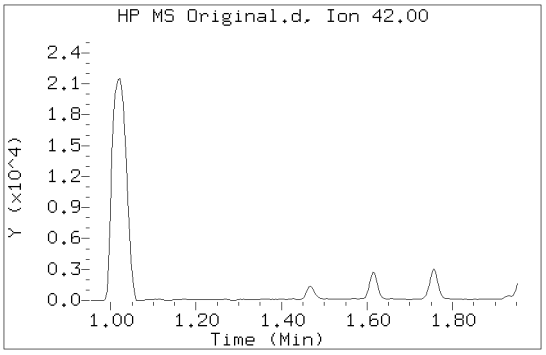

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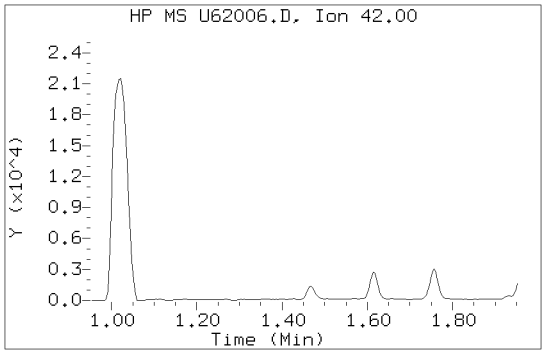

Isobutylene (115-11-7)

Reason Code:

BEFORE
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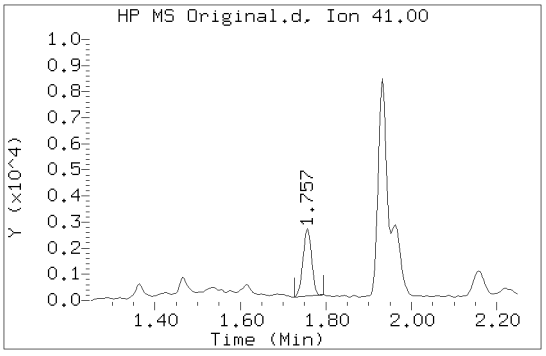

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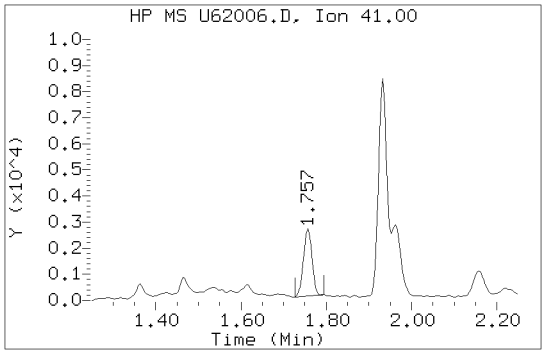

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Inj Date : 20-JUN-2024 12:49
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LabSampID : VSTD005

Isobutylene (115-11-7)

Reason Code:

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12:15
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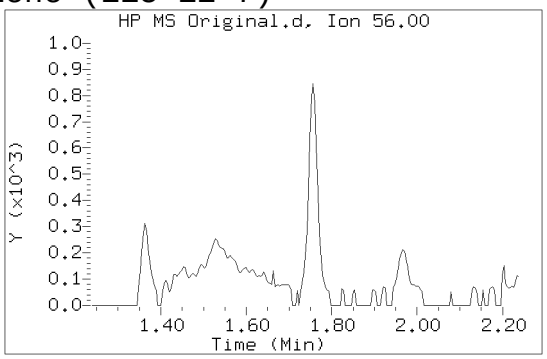

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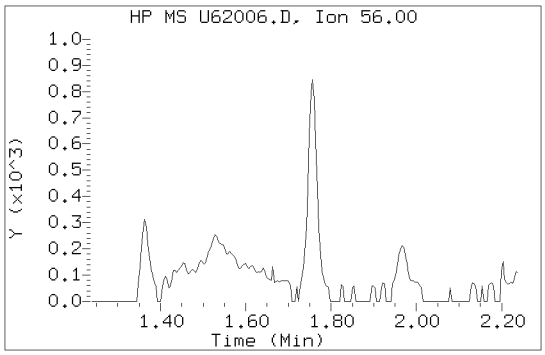

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12:15
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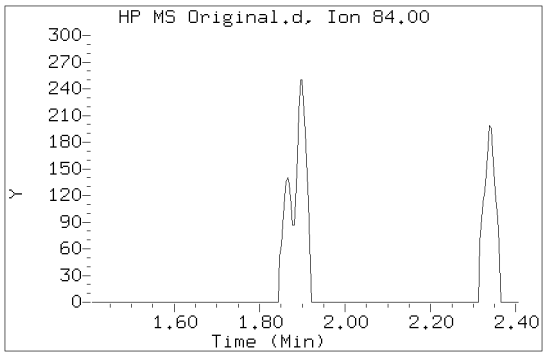

AFTER
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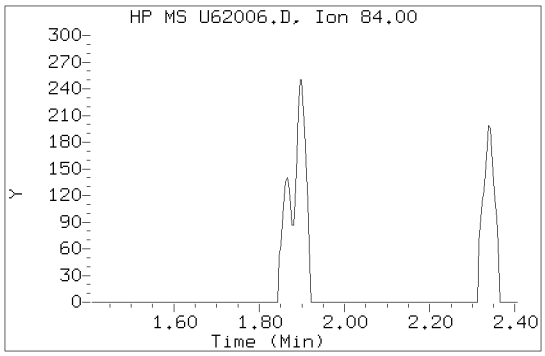

sec-Butyl Ether (6863-58-7)

Reason Code:

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12:15
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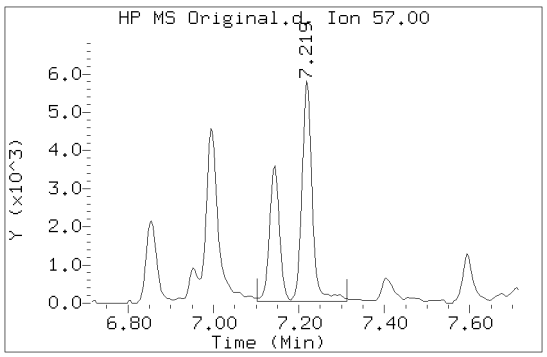

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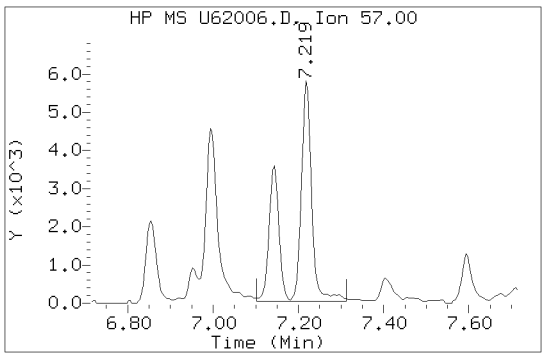

2-Chloropropene (557-98-2)

Reason Code:

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29-Jun-2024
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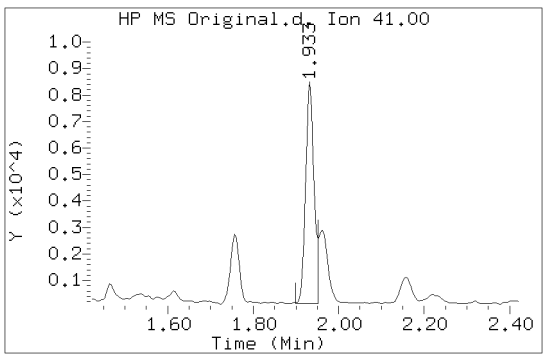

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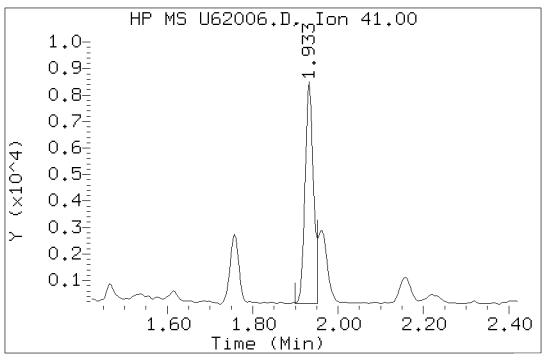

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Report Date: 29-Jun-2024 12:19

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62007.D
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Inj Date : 20-JUN-2024 13:10
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\U240620.b\8260C.m
Meth Date : 29-Jun-2024 12:19 VOA9.i Quant Type: ISTD
Cal Date : 20-JUN-2024 11:44 Cal File: U62003.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: NAHSTW7014

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)	254049	50.0000	
2 Dichlorodifluoromethane	85	1.168	1.168	(0.243)	38140	20.0000	21.02(M)
3 Chloromethane	50	1.299	1.299	(0.270)	86062	20.0000	20.28
4 Propionitrile	54	4.335	4.335	(0.900)	47549	200.000	200.52(a)
5 Vinyl Chloride	62	1.382	1.382	(0.287)	45157	20.0000	20.12(M)
6 Bromomethane	94	1.618	1.618	(0.336)	19198	20.0000	21.90
7 Chloroethane	64	1.700	1.700	(0.353)	29401	20.0000	20.22
8 Trichlorofluoromethane	101	1.895	1.895	(0.394)	52599	20.0000	21.61
9 Acrolein	56	2.262	2.262	(0.470)	3234	40.0000	38.14
10 Acetone	43	2.409	2.409	(0.500)	28441	40.0000	39.38
11 1,1-Dichloroethene	96	2.334	2.334	(0.485)	30061	20.0000	20.28
12 Isobutyl Alcohol	43	5.284	5.284	(1.097)	92132	400.000	367.35(a)
13 Acetonitrile	39	2.671	2.671	(0.555)	39916	200.000	199.51(a)
14 Allyl Chloride	41	2.671	2.671	(0.555)	93616	20.0000	20.04(a)
15 Iodomethane	142	2.465	2.465	(0.512)	20114	40.0000	36.74
16 Acrylonitrile	53	3.065	3.065	(0.636)	25226	40.0000	40.39
17 Methylene Chloride	84	2.795	2.795	(0.580)	38417	20.0000	20.28
18 Methyl tert-butyl ether	73	3.080	3.080	(0.640)	87519	20.0000	20.28
19 Carbon Disulfide	76	2.521	2.521	(0.524)	163219	40.0000	39.96
20 trans-1,2-Dichloroethene	96	3.057	3.057	(0.635)	32296	20.0000	20.46

21 Vinyl Acetate	43	4.339	4.339 (0.901)	34793	40.0000	39.07
22 1,1-Dichloroethane	63	3.511	3.511 (0.729)	62083	20.0000	20.65

	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)	51433	20.0000	20.26
	24 2-Butanone	43	4.264	4.264	(0.886)	33931	40.0000	38.62
	25 Methacrylonitrile	41	4.493	4.493	(0.933)	19125	20.0000	17.69(aM)
	26 2,2-Dichloropropane	77	4.182	4.182	(0.868)	44921	20.0000	19.54
	27 cis-1,2-Dichloroethene	96	4.193	4.193	(0.871)	36622	20.0000	19.71
	28 Chloroform	83	4.572	4.572	(0.949)	62582	20.0000	20.32
	29 Bromochloromethane	128	4.467	4.467	(0.928)	19233	20.0000	18.91
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	33666	20.0000	19.95
	31 1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	48589	20.0000	20.60
	32 1,1-Dichloropropene	75	4.920	4.920	(0.887)	45303	20.0000	20.23(M)
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	51020	20.0000	20.77
	34 Carbon Tetrachloride	117	4.909	4.909	(0.885)	37608	20.0000	20.03(M)
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	42857	20.0000	19.91
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	367092	50.0000	
	37 Benzene	78	5.138	5.138	(0.926)	141532	20.0000	18.73
	38 Trichloroethene	130	5.786	5.786	(1.043)	35944	20.0000	19.60
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	40094	20.0000	18.77
	40 Methyl Methacrylate	41	5.820	5.820	(1.209)	12994	20.0000	19.54(a)
	41 2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	1519	40.0000	37.98(M)
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	37404	20.0000	18.69
	43 2-Nitropropane	43	6.506	6.506	(1.351)	7117	20.0000	17.71(M)
	44 Dibromomethane	93	6.116	6.116	(1.102)	22269	20.0000	19.06
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	68344	40.0000	37.63
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	46931	20.0000	18.81
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	329541	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	125647	20.0000	19.64
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	44580	20.0000	19.12(a)
	50 Toluene	91	6.978	6.978	(0.853)	150132	20.0000	20.00
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	38067	20.0000	18.30
	52 2-Hexanone	43	7.214	7.214	(0.881)	53773	40.0000	43.58
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	27714	20.0000	19.10
	54 1,3-Dichloropropane	76	7.496	7.496	(0.916)	58809	20.0000	19.28
	55 Dibromochloromethane	129	7.691	7.691	(0.940)	29986	20.0000	19.80
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	29084	20.0000	20.71
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	31039	20.0000	19.38
	58 1-Chlorohexane	55	8.197	8.197	(1.477)	28802	20.0000	19.94
	59 Chlorobenzene	112	8.208	8.208	(1.003)	96445	20.0000	20.69
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	31402	20.0000	19.48
	61 Ethylbenzene	106	8.305	8.305	(1.015)	47392	20.0000	20.40
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	118342	40.0000	42.68
	63 o-Xylene	106	8.748	8.748	(1.069)	58330	20.0000	21.35
	64 Styrene	104	8.763	8.763	(1.071)	93490	20.0000	20.46
	66 Bromoform	173	8.920	8.920	(1.090)	17069	20.0000	17.63
	67 Isopropylbenzene	105	9.063	9.063	(1.107)	145388	20.0000	21.44
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	46115	20.0000	20.31
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	47575	20.0000	18.93
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	182323	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	43891	20.0000	19.62
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	8831	20.0000	19.17(a)
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	167474	20.0000	21.24
	74 Bromobenzene	156	9.318	9.318	(0.916)	40710	20.0000	19.00
	75 1,3,5-Trimethylbenzene	105	9.565	9.565	(0.940)	101450	20.0000	18.00

76	2-Chlorotoluene	91	9.482	9.482 (0.932)	105758	20.0000	19.82
77	4-Chlorotoluene	91	9.576	9.576 (0.941)	122560	20.0000	20.24

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62007.D Page 3
Report Date: 29-Jun-2024 12:19

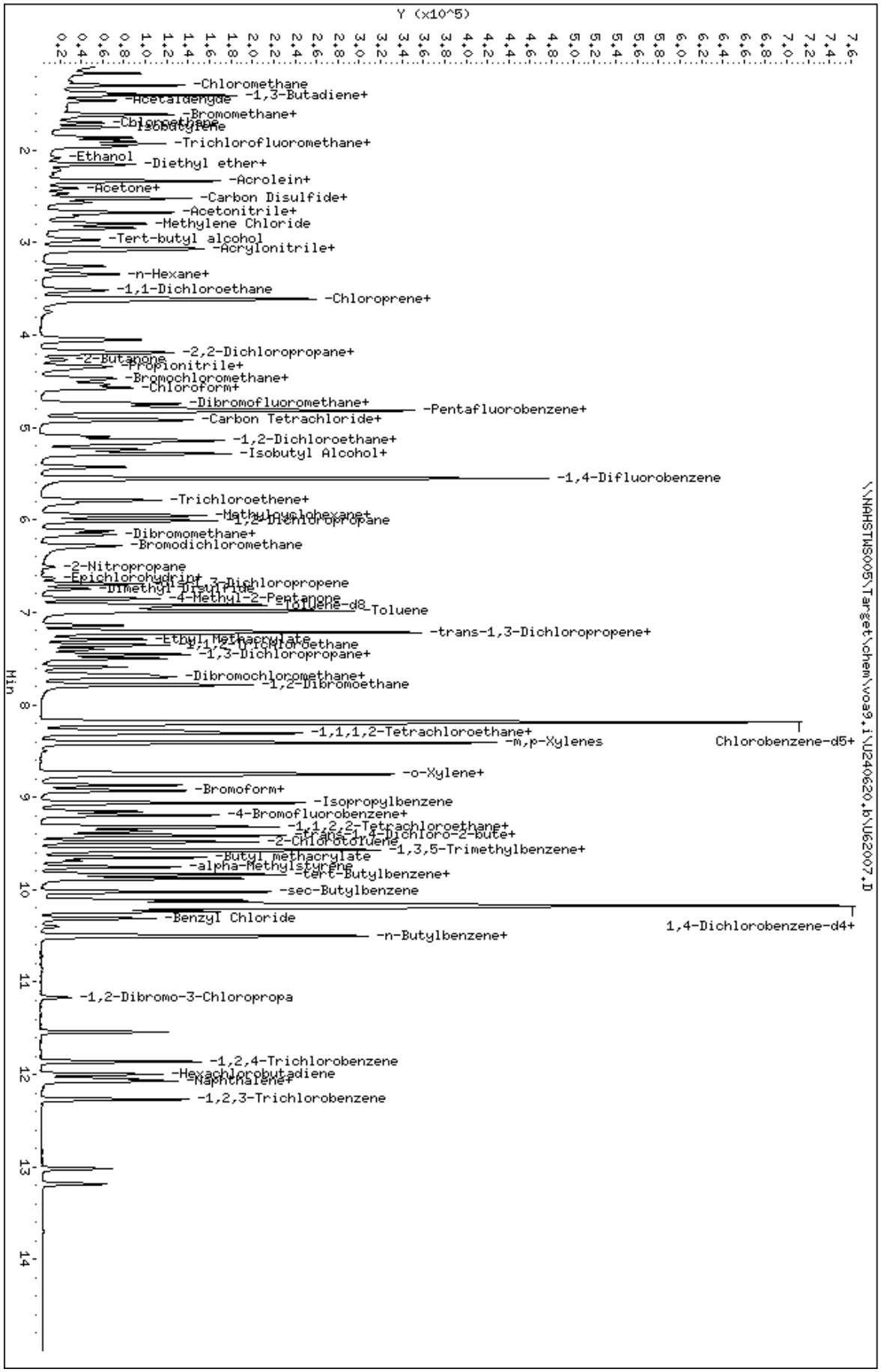
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.839	9.839	(0.967)	102979	20.0000	21.43
79	1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	96167	20.0000	16.57(M)
81	sec-Butylbenzene	105	10.022	10.022	(0.985)	135005	20.0000	21.09
82	p-Isopropyltoluene	119	10.146	10.146	(0.997)	106929	20.0000	18.41
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	73042	20.0000	18.53
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	78002	20.0000	20.29
86	Benzyl Chloride	91	10.311	10.311	(1.260)	69765	20.0000	20.22
87	n-Butylbenzene	91	10.495	10.495	(1.032)	99934	20.0000	19.10
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	73575	20.0000	18.74
89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	5187	20.0000	19.09
90	1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	44801	20.0000	18.86
91	Hexachlorobutadiene	225	11.998	11.998	(1.179)	20604	20.0000	19.57
92	Naphthalene	128	12.069	12.069	(1.186)	87164	20.0000	17.07
93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	41467	20.0000	19.07
146	Methyl acetate	43	2.712	2.712	(0.563)	28405	20.0000	20.14
138	Freon TF	101	2.334	2.334	(0.485)	28842	20.0000	20.84
141	Cyclohexane	56	4.782	4.782	(0.993)	50211	20.0000	19.92
142	Tetrahydrofuran	42	4.542	4.542	(0.943)	11599	40.0000	38.55
147	Methylcyclohexane	55	5.947	5.947	(1.072)	76325	20.0000	19.58
135	1,4-Dioxane	88	6.169	6.169	(1.281)	8369	400.000	421.83
132	n-Butanol	56	5.824	5.824	(1.209)	17102	400.000	377.93(a)
136	n-Hexane	57	3.342	3.342	(0.694)	34407	20.0000	21.12(T)
139	Diethyl ether	59	2.146	2.146	(0.446)	25476	20.0000	20.10
148	Tert-butyl alcohol	59	2.967	2.967	(0.616)	60372	400.000	407.83
149	Isopropyl alcohol	45	2.562	2.562	(0.532)	48459	400.000	424.55(T)
156	Diisopropyl ether	45	3.619	3.619	(0.752)	112384	20.0000	18.34(T)
162	Butyl acrylate	55	8.733	8.733	(1.067)	58370	20.0000	19.24
164	Dicyclopentadiene	66	10.202	10.202	(1.003)	152026	20.0000	19.25
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	87899	20.0000	16.85
167	Ethanol	45	2.083	2.083	(0.433)	9302	400.000	419.20
172	tert-Butyl formate	59	5.239	5.239	(1.088)	47930	40.0000	40.22
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	193343	400.000	381.90
140	1,3-Butadiene	54	1.404	1.404	(0.292)	44943	20.0000	20.60
182	Epichlorohydrin	57	6.630	6.630	(1.195)	4024	80.0000	69.51
M 94	1,2-Dichloroethylene (total)	96				68918	40.0000	(a)
145	alpha-Methylstyrene	118	9.756	9.756	(0.959)	36586	20.0000	18.30
130	Ethyl Acetate	43	4.530	4.530	(0.941)	14253	20.0000	22.69(M)
131	Methyl Acrylate	55	4.369	4.369	(0.907)	37588	20.0000	17.85
189	n-Butyl acetate	43	7.706	7.706	(0.941)	52879	20.0000	20.12
134	Cyclohexanone	55	9.153	9.153	(0.900)	37033	400.000	394.04(a)
185	Isoprene	39	2.158	2.158	(0.448)	7678	20.0000	20.81
188	Isopropyl acetate	43	5.284	5.284	(0.952)	92557	20.0000	18.85
150	Allyl alcohol	57	3.342	3.342	(0.694)	34407	400.000	422.44
194	Acetaldehyde	44	1.464	1.464	(0.304)	34408	80.0000	81.02(M)
200	Dimethyl Disulfide	94	6.746	6.746	(0.824)	17763	20.0000	16.88
202	Isobutylene	41	1.753	1.753	(0.364)	16468	20.0000	20.24(M)
133	Ethyl Acrylate	55	5.947	5.947	(1.235)	76325	20.0000	19.09
163	Butyl methacrylate	41	9.651	9.651	(0.949)	41093	20.0000	21.89
159	Propylene oxide	43	2.202	2.202	(0.457)	4192	40.0000	36.11
178	Ethylene oxide	44	1.610	1.610	(0.334)	73276	40.0000	38.85(M)
203	2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	29847	20.0000	16.54
204	Tetrahydrothiophene	60	7.672	7.672	(0.937)	36596	20.0000	19.54(A)

205 sec-Butyl Ether	57	7.214	7.214 (0.881)	68567	20.0000	18.62(AM)
187 n-Amyl acetate	43	8.931	8.931 (1.091)	58869	20.0000	20.19

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
206 2-Chloropropene	41	1.925	1.925	(0.400)	53299	20.0000	20.43(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: WSTD020;WSTD020;1;6
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

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Inj Date : 20-JUN-2024 13:10
InstruID : VOA9.i
LabSampID : VSTD020

Dichlorodifluoromethane (75-71-8)

Reason Code:

BEFORE

MASS
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29-Jun-2024
12:15
s
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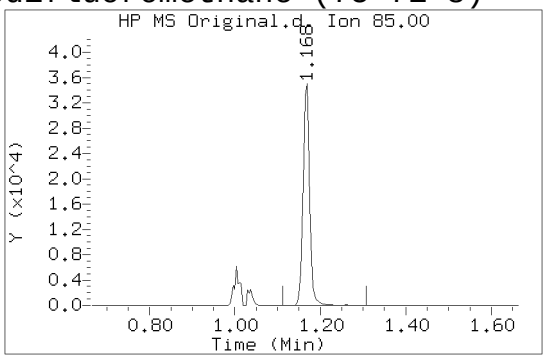

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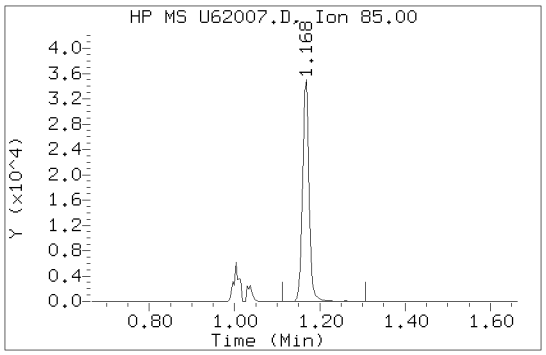

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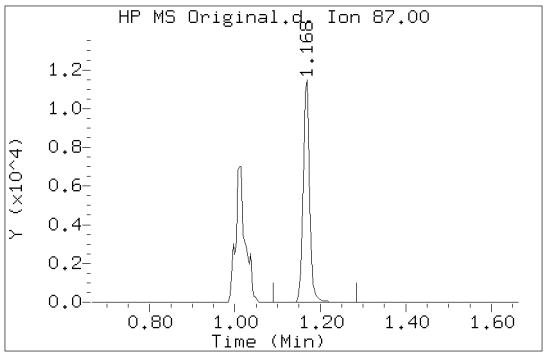

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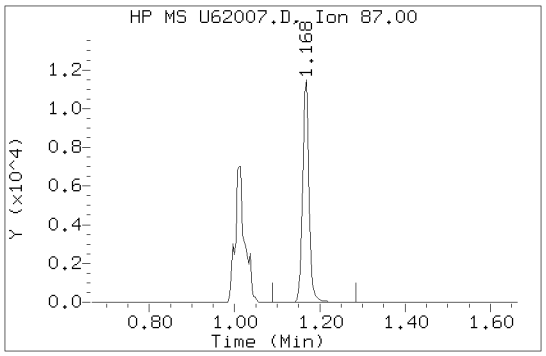

Vinyl Chloride (75-01-4)

Reason Code:

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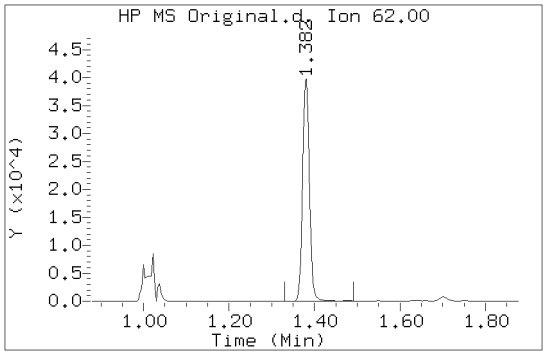

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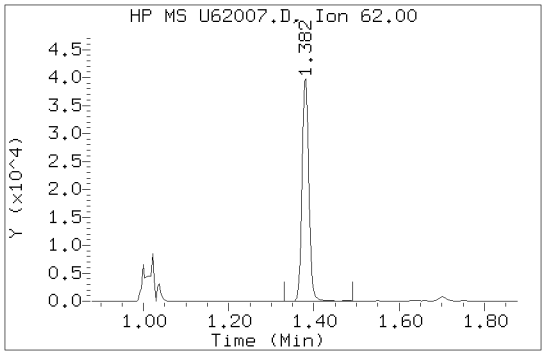

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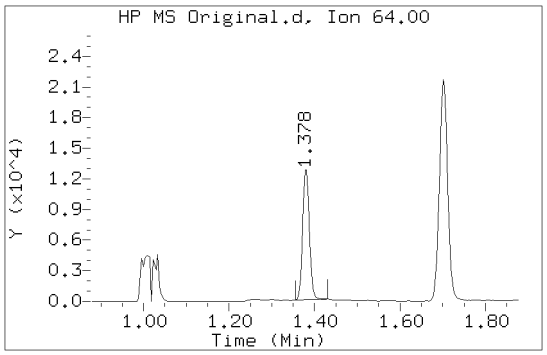

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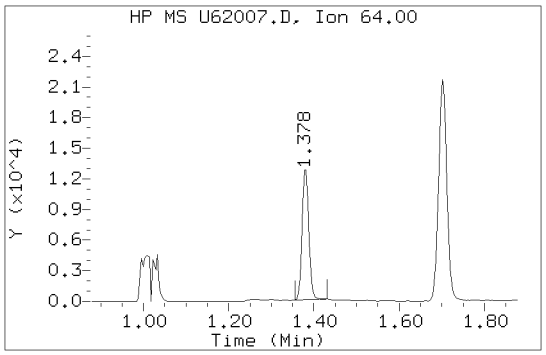

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Inj Date : 20-JUN-2024 13:10
InstruID : VOA9.i
LabSampID : VSTD020

1,1-Dichloropropene (563-58-6)

Reason Code:

BEFORE

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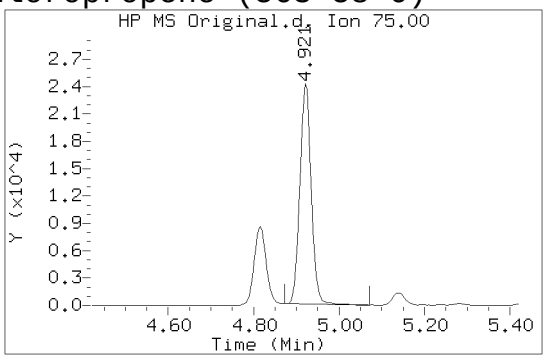

AFTER

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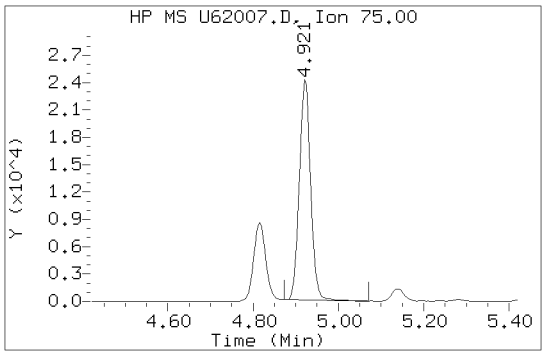

BEFORE

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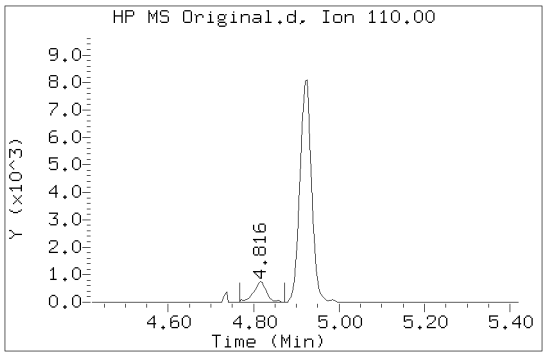

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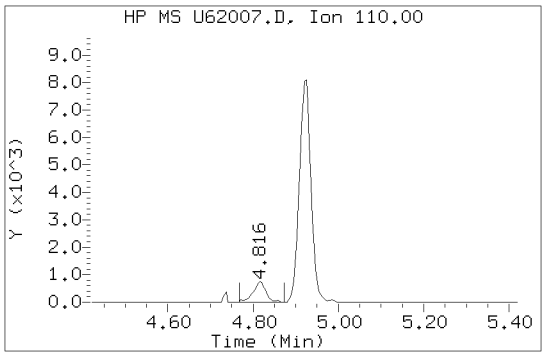

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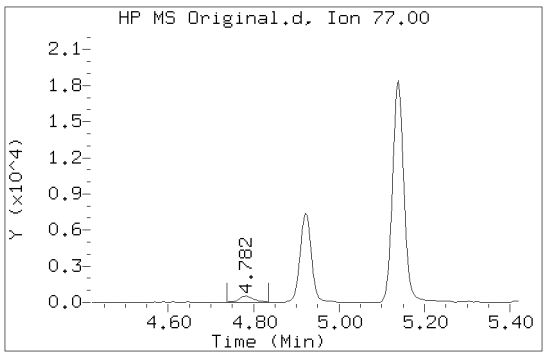

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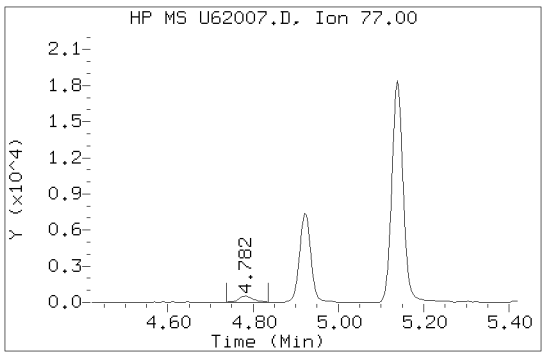

Carbon Tetrachloride (56-23-5)

Reason Code:

BEFORE

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18524
29-Jun-2024
12:15
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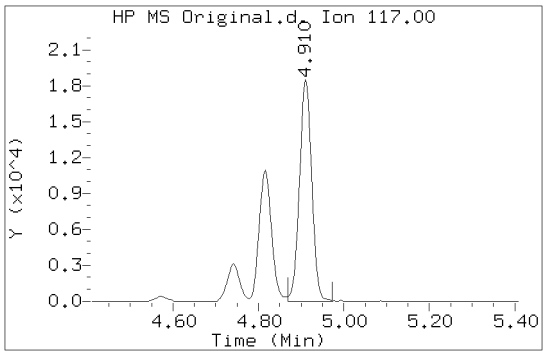

AFTER

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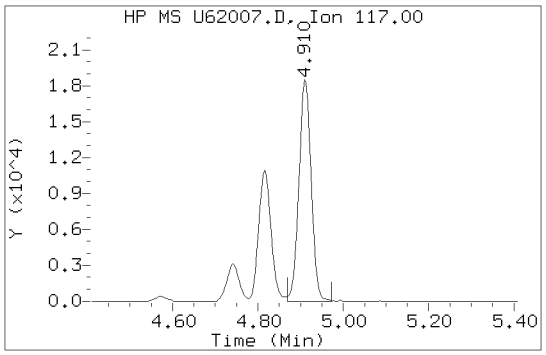

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Inj Date : 20-JUN-2024 13:10
InstruID : VOA9.i
LabSampID : VSTD020

Carbon Tetrachloride (56-23-5)

Reason Code:

BEFORE

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12:15
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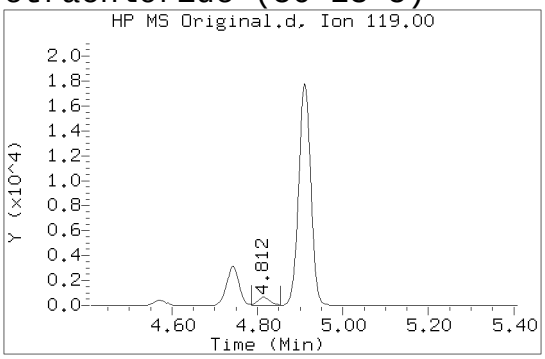

AFTER

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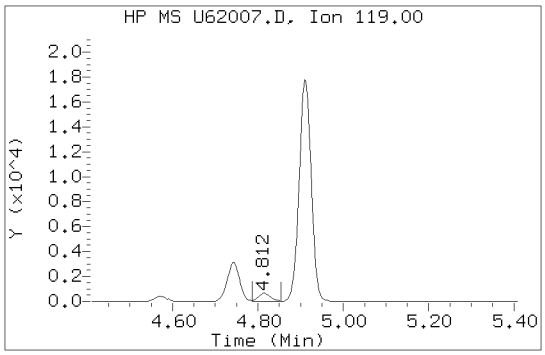

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

BEFORE

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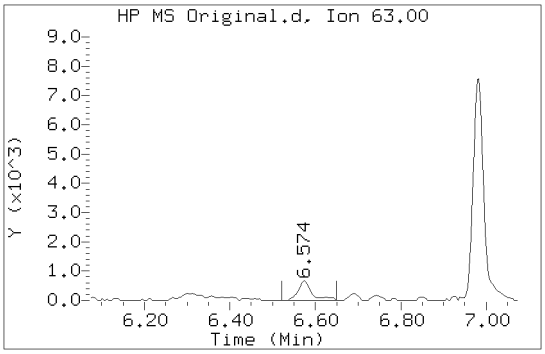

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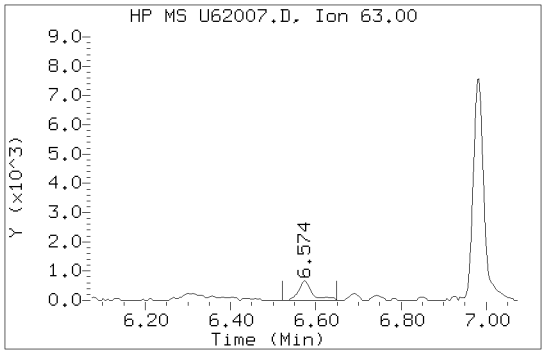

BEFORE

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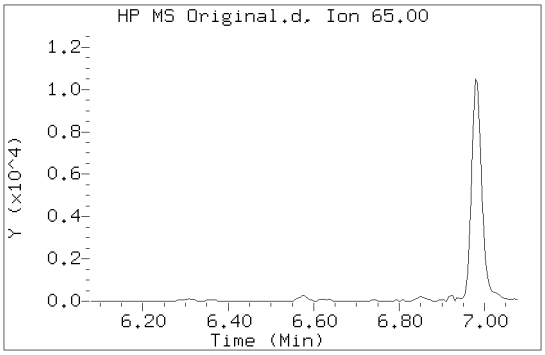

AFTER

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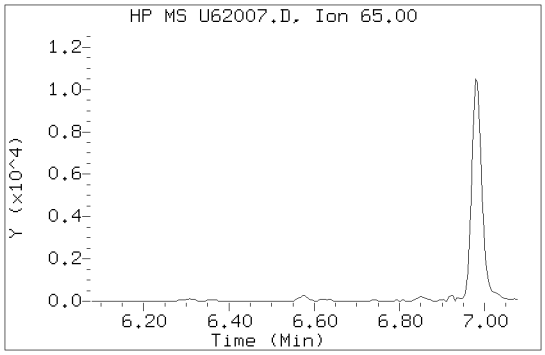

BEFORE

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29-Jun-2024
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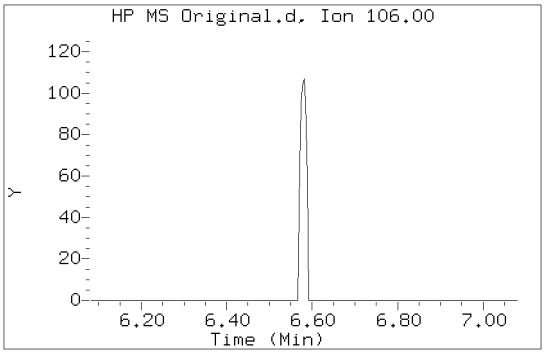

AFTER

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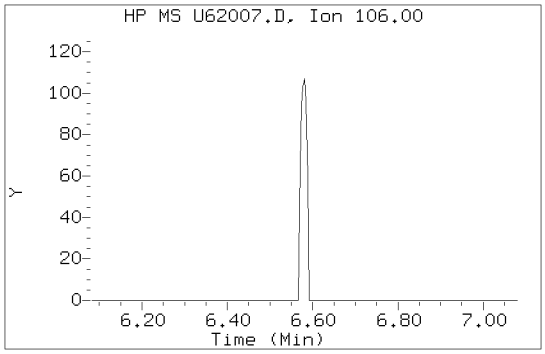

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Inj Date : 20-JUN-2024 13:10
InstruID : VOA9.i
LabSampID : VSTD020

Methacrylonitrile (126-98-7)

Reason Code:

BEFORE

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29-Jun-2024
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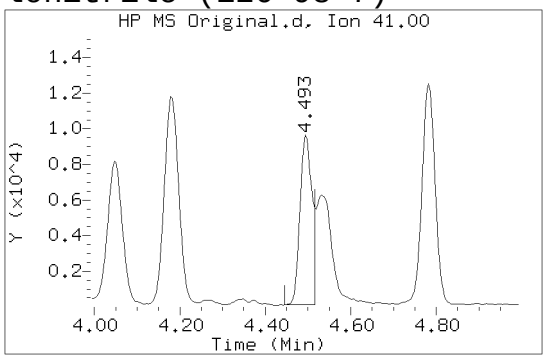

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12:18
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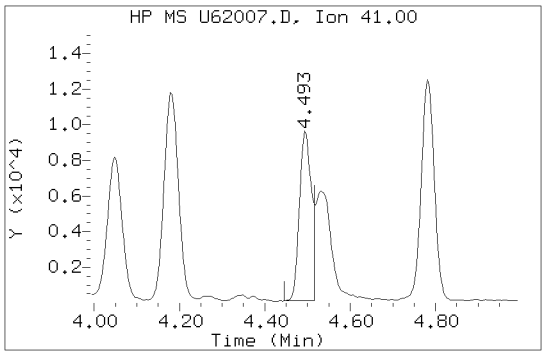
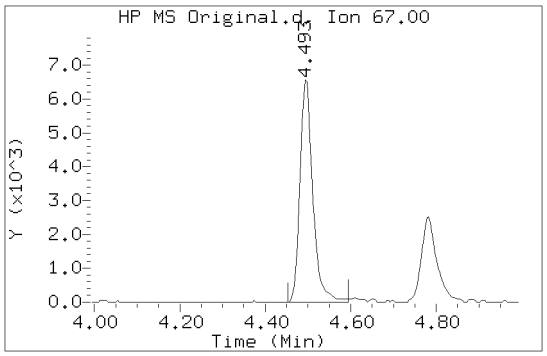


BEFORE

MASS
67
AREA
14029
HEIGHT
6564
29-Jun-2024
12:15
s
zaid



AFTER

MASS
67
AREA
14029
HEIGHT
6564
29-Jun-2024
12:18
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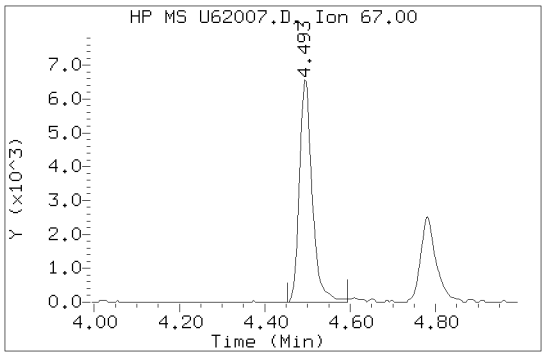

BEFORE

MASS
39
AREA
16364
HEIGHT
5002
29-Jun-2024
12:15
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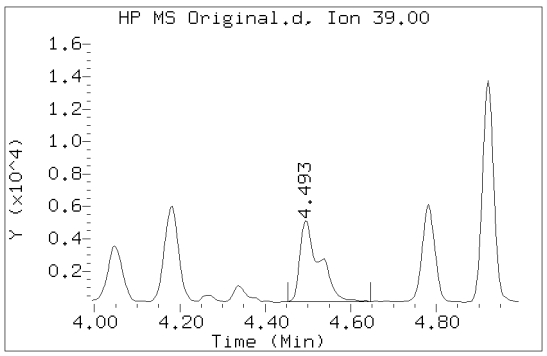
zaid



AFTER

MASS
39
AREA
16364
HEIGHT
5002
29-Jun-2024
12:18
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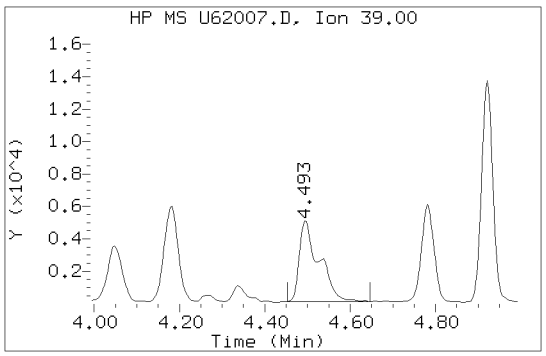
zaid

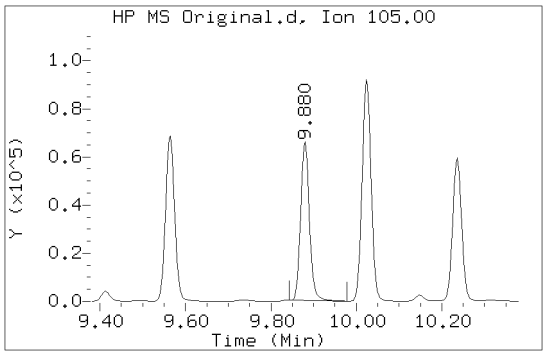


1,2,4-Trimethylbenzene (95-63-6)

Reason Code:

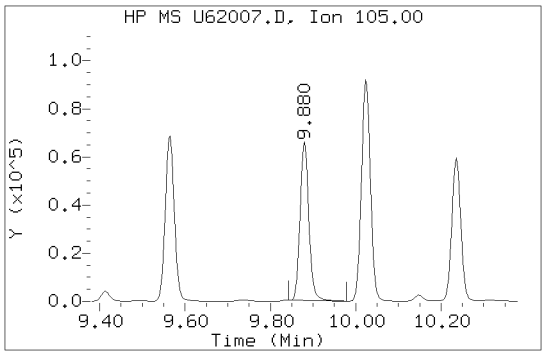
BEFORE

MASS
105
AREA
96167
HEIGHT
66051
29-Jun-2024
12:15
s
zaid



AFTER

MASS
105
AREA
96167
HEIGHT
66051
29-Jun-2024
12:18
s
zaid



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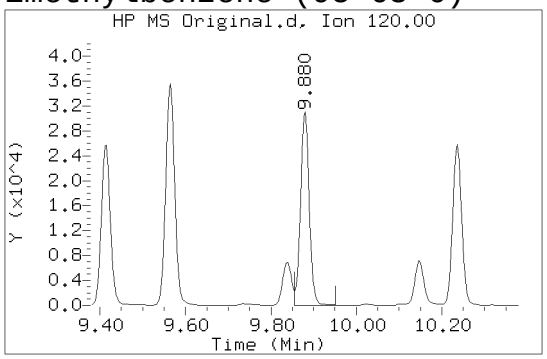
Inj Date : 20-JUN-2024 13:10
InstruID : VOA9.i
LabSampID : VSTD020

1,2,4-Trimethylbenzene (95-63-6)

Reason Code:

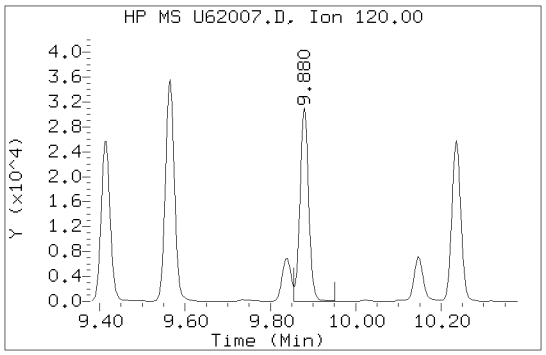
BEFORE

MASS
120
AREA
45066
HEIGHT
31104
29-Jun-2024
12:15
s
zaid



AFTER

MASS
120
AREA
45066
HEIGHT
31104
29-Jun-2024
12:18
s
zaid

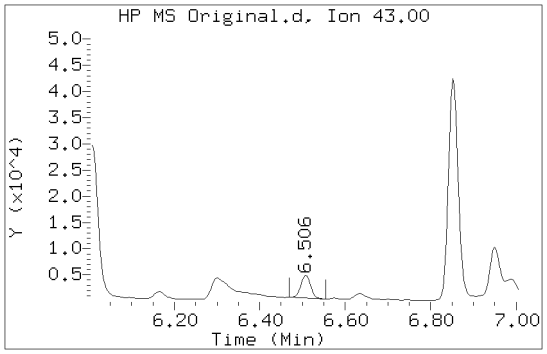


2-Nitropropane (79-46-9)

Reason Code:

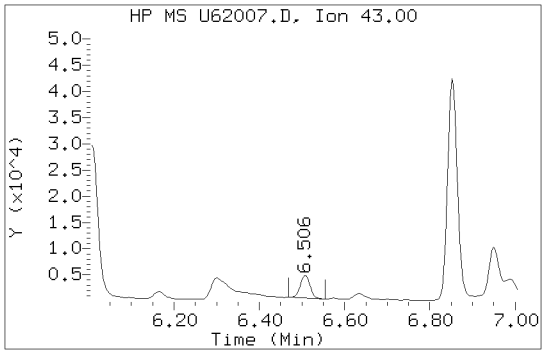
BEFORE

MASS
43
AREA
7117
HEIGHT
4328
29-Jun-2024
12:15
s
zaid



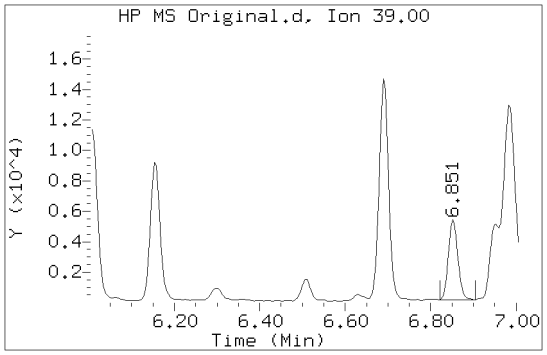
AFTER

MASS
43
AREA
7117
HEIGHT
4328
29-Jun-2024
12:18
s
zaid



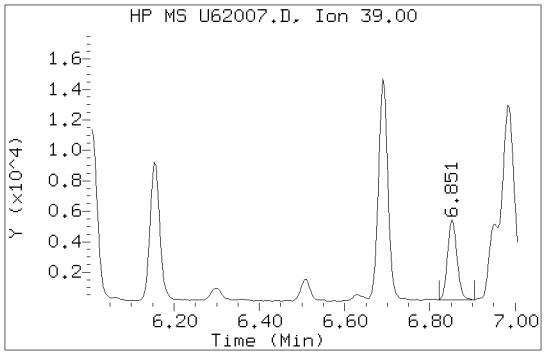
BEFORE

MASS
39
AREA
8125
HEIGHT
5287
29-Jun-2024
12:15
s
zaid



AFTER

MASS
39
AREA
8125
HEIGHT
5287
29-Jun-2024
12:18
s
zaid

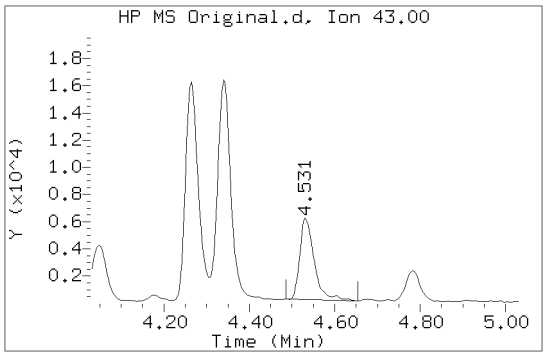


Ethyl Acetate (141-78-6)

Reason Code:

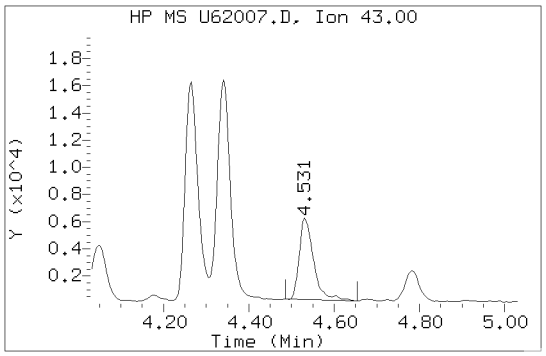
BEFORE

MASS
43
AREA
14253
HEIGHT
5999
29-Jun-2024
12:15
s
zaid



AFTER

MASS
43
AREA
14253
HEIGHT
5999
29-Jun-2024
12:18
s
zaid



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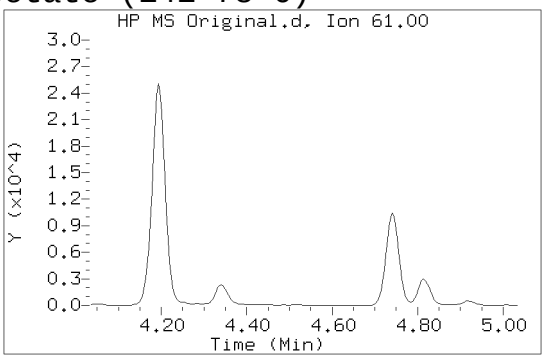
Inj Date : 20-JUN-2024 13:10
InstruID : VOA9.i
LabSampID : VSTD020

Ethyl Acetate (141-78-6)

Reason Code:

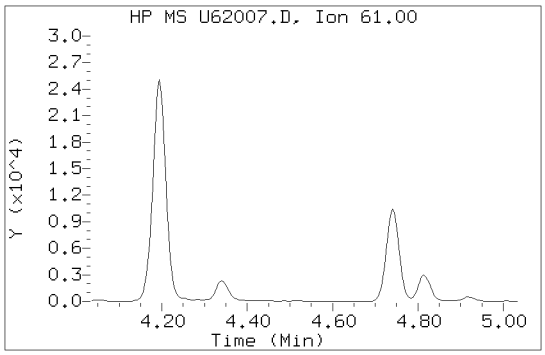
BEFORE

MASS
61
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
61
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



BEFORE

MASS
70
AREA
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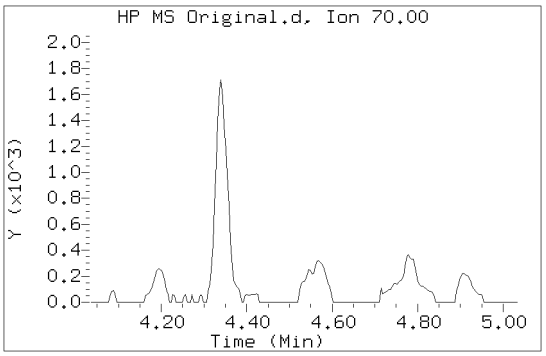
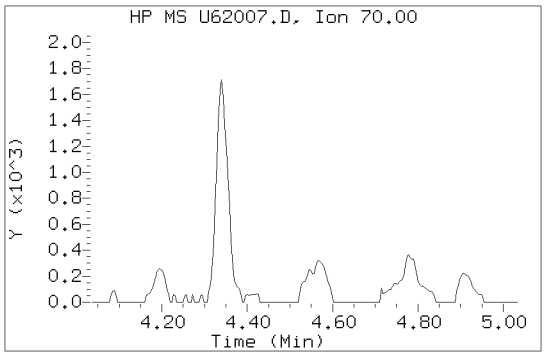
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
70
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid

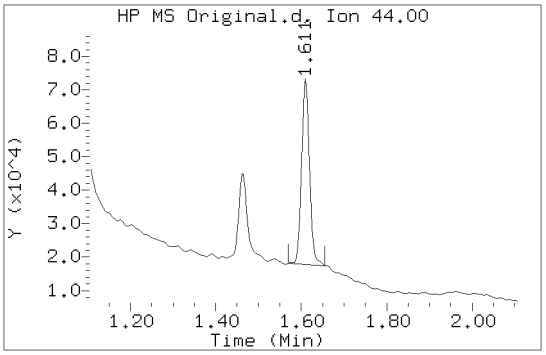


Ethylene oxide (75-21-8)

Reason Code:

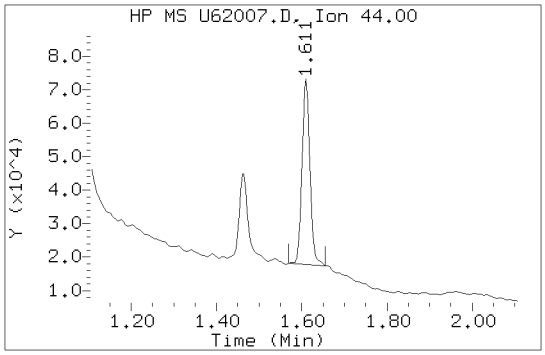
BEFORE

MASS
44
AREA
73276
HEIGHT
55420
29-Jun-2024
12:15
s
zaid



AFTER

MASS
44
AREA
73276
HEIGHT
55420
29-Jun-2024
12:18
s
zaid



Acetaldehyde (75-07-0)

Reason Code:

BEFORE

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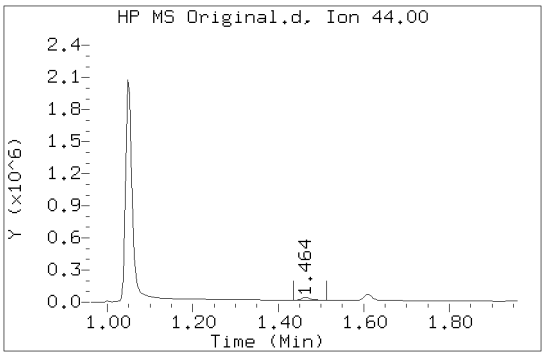
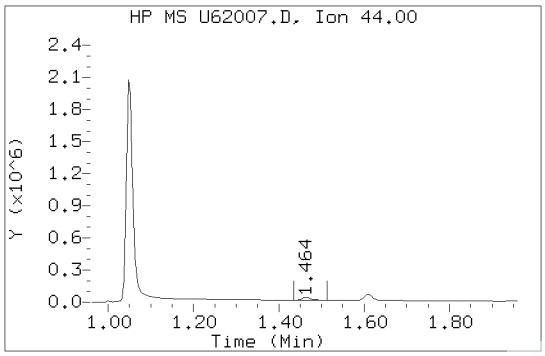
44
AREA
34408
HEIGHT
24991
29-Jun-2024
12:15
s
zaid



AFTER

MASS
44
AREA
34408
HEIGHT
24991
29-Jun-2024
12:18
s
zaid



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Inj Date : 20-JUN-2024 13:10
InstruID : VOA9.i
LabSampID : VSTD020

Acetaldehyde (75-07-0)

Reason Code:

BEFORE
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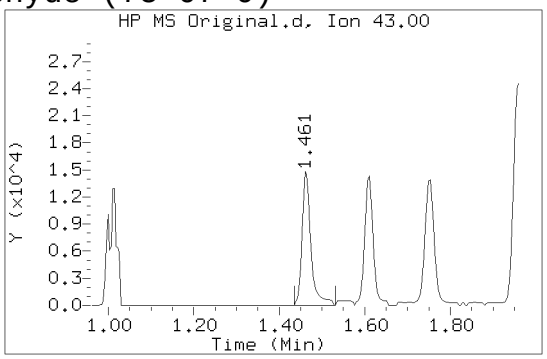
AREA
22041
HEIGHT
14854
29-Jun-2024
12:15
s
zaid



AFTER
MASS
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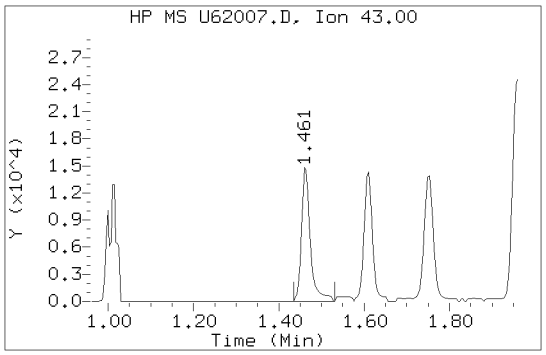
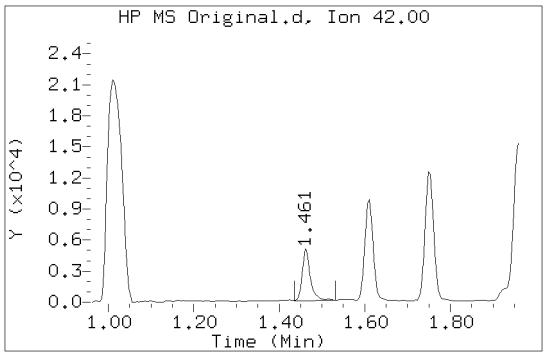
AREA
22041
HEIGHT
14854
29-Jun-2024
12:18
s
zaid



BEFORE
MASS
42
AREA
6820
HEIGHT
4989
29-Jun-2024
12:15
s
zaid



AFTER
MASS
42
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HEIGHT
4989
29-Jun-2024
12:18
s
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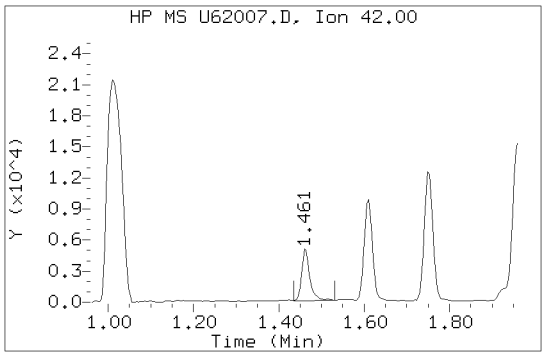

Isobutylene (115-11-7)

Reason Code:

BEFORE
MASS
41
AREA
16468
HEIGHT
11485
29-Jun-2024
12:15
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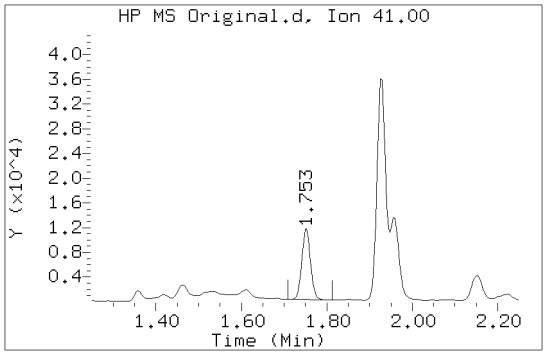
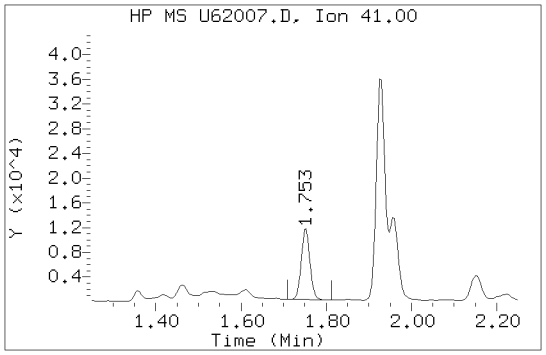
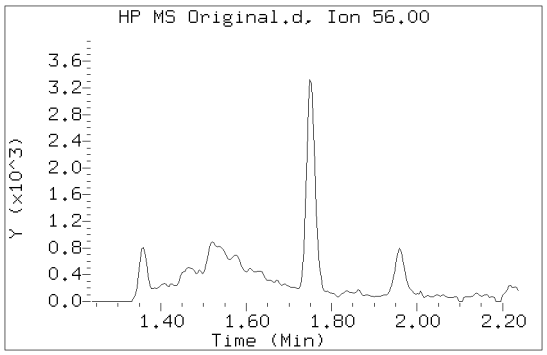
zaid



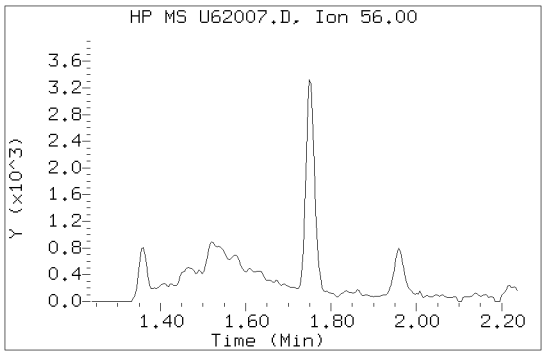
AFTER
MASS
41
AREA
16468
HEIGHT
11485
29-Jun-2024
12:18
s
zaid



BEFORE
MASS
56
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER
MASS
56
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



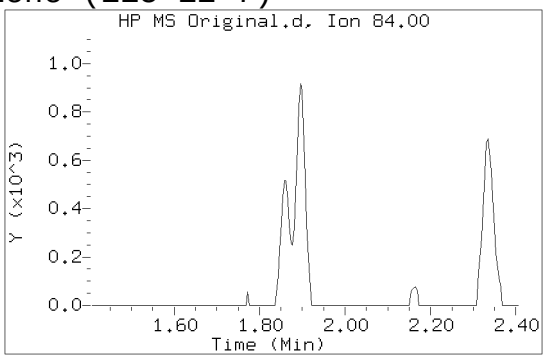
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62007.D
Inj Date : 20-JUN-2024 13:10
InstruID : VOA9.i
LabSampID : VSTD020

Isobutylene (115-11-7)

Reason Code:

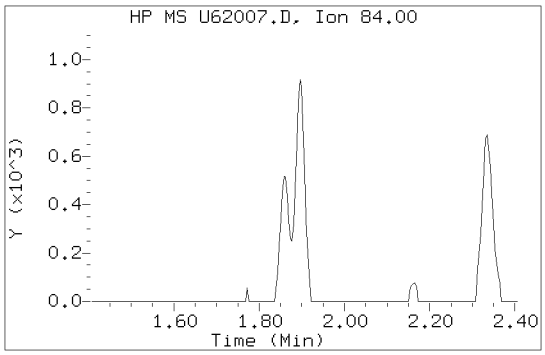
BEFORE

MASS
84
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
84
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid

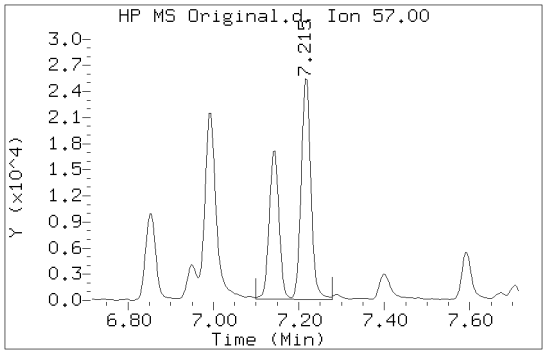


sec-Butyl Ether (6863-58-7)

Reason Code:

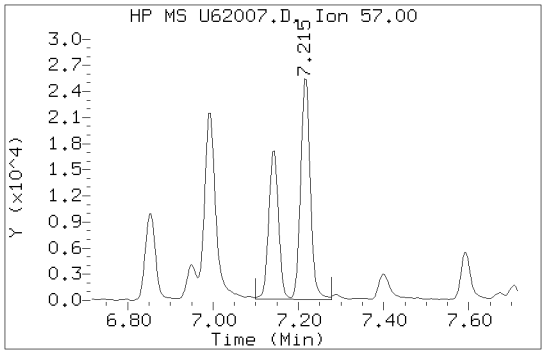
BEFORE

MASS
57
AREA
68567
HEIGHT
25357
29-Jun-2024
12:15
s
zaid



AFTER

MASS
57
AREA
68567
HEIGHT
25357
29-Jun-2024
12:18
s
zaid

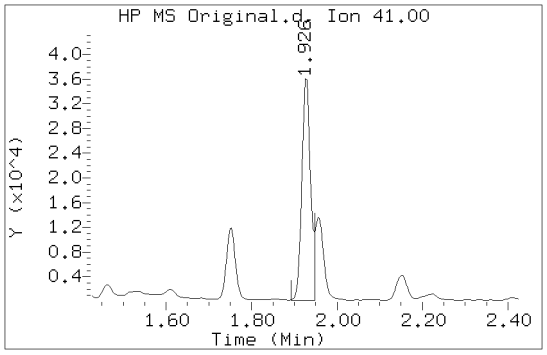


2-Chloropropene (557-98-2)

Reason Code:

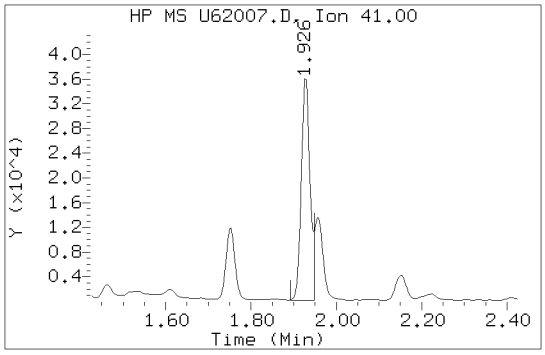
BEFORE

MASS
41
AREA
53299
HEIGHT
35859
29-Jun-2024
12:15
s
zaid



AFTER

MASS
41
AREA
53299
HEIGHT
35859
29-Jun-2024
12:18
s
zaid



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62008.D Page 1
Report Date: 29-Jun-2024 12:15

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62008.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 20-JUN-2024 13:32
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\U240620.b\8260C.m
Meth Date : 29-Jun-2024 12:15 VOA9.i Quant Type: ISTD
Cal Date : 20-JUN-2024 13:10 Cal File: U62007.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: NAHSTW7014

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)	251533	50.0000	
2	Dichlorodifluoromethane	85	1.160	1.160	(0.241)	95581	50.0000	53.20(M)
3	Chloromethane	50	1.292	1.292	(0.268)	198562	50.0000	50.71
4	Propionitrile	54	4.332	4.332	(0.900)	121156	500.000	521.11
5	Vinyl Chloride	62	1.374	1.374	(0.286)	112466	50.0000	50.43(M)
6	Bromomethane	94	1.610	1.610	(0.335)	44204	50.0000	53.17
7	Chloroethane	64	1.693	1.693	(0.352)	72630	50.0000	51.70
8	Trichlorofluoromethane	101	1.888	1.888	(0.392)	126506	50.0000	52.51
9	Acrolein	56	2.259	2.259	(0.469)	8374	100.000	108.06
10	Acetone	43	2.401	2.401	(0.499)	68845	100.000	107.56
11	1,1-Dichloroethene	96	2.326	2.326	(0.484)	72215	50.0000	49.21
12	Isobutyl Alcohol	43	5.280	5.280	(1.097)	241560	1000.00	972.80
13	Acetonitrile	39	2.664	2.664	(0.554)	103396	500.000	538.86
14	Allyl Chloride	41	2.664	2.664	(0.554)	235927	50.0000	52.10
15	Iodomethane	142	2.461	2.461	(0.512)	56866	100.000	98.83
16	Acrylonitrile	53	3.057	3.057	(0.635)	63044	100.000	102.75
17	Methylene Chloride	84	2.787	2.787	(0.579)	91024	50.0000	51.80
18	Methyl tert-butyl ether	73	3.072	3.072	(0.639)	217335	50.0000	50.23
19	Carbon Disulfide	76	2.514	2.514	(0.522)	417910	100.000	103.34
20	trans-1,2-Dichloroethene	96	3.053	3.053	(0.635)	79342	50.0000	51.68

21 Vinyl Acetate	43	4.335	4.335 (0.901)	90820	100.000	103.53
22 1,1-Dichloroethane	63	3.507	3.507 (0.729)	151105	50.0000	51.94

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62008.D Page 2
Report Date: 29-Jun-2024 12:15

	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)	127812	50.0000	51.23
	24 2-Butanone	43	4.257	4.257	(0.885)	88567	100.000	101.57
	25 Methacrylonitrile	41	4.489	4.489	(0.933)	53283	50.0000	48.43(a)
	26 2,2-Dichloropropane	77	4.174	4.174	(0.868)	116047	50.0000	50.08
	27 cis-1,2-Dichloroethene	96	4.189	4.189	(0.871)	94216	50.0000	51.83
	28 Chloroform	83	4.568	4.568	(0.949)	156020	50.0000	52.50
	29 Bromochloromethane	128	4.463	4.463	(0.928)	46511	50.0000	46.18
$	30 Dibromofluoromethane	113	4.744	4.744	(0.986)	83337	50.0000	49.87
	31 1,1,1-Trichloroethane	97	4.737	4.737	(0.984)	123401	50.0000	52.84
	32 1,1-Dichloropropene	75	4.916	4.916	(0.886)	113090	50.0000	50.81(M)
	33 1,2-Dichloroethane	62	5.171	5.171	(0.932)	124711	50.0000	52.77
	34 Carbon Tetrachloride	117	4.905	4.905	(0.884)	97926	50.0000	52.49(M)
$	35 1,2-Dichloroethane-d4	65	5.093	5.093	(1.058)	104164	50.0000	48.87
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	364835	50.0000	
	37 Benzene	78	5.134	5.134	(0.925)	353922	50.0000	47.13
	38 Trichloroethene	130	5.786	5.786	(1.043)	88882	50.0000	48.77
	39 Bromodichloromethane	83	6.274	6.274	(1.130)	110174	50.0000	51.91
	40 Methyl Methacrylate	41	5.816	5.816	(1.209)	33074	50.0000	50.24
	41 2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	4138	100.000	84.69
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	94773	50.0000	47.65
	43 2-Nitropropane	43	6.506	6.506	(1.352)	20359	50.0000	51.19(M)
	44 Dibromomethane	93	6.116	6.116	(1.102)	55849	50.0000	48.11
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	180902	100.000	99.97
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	131407	50.0000	52.99
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	328344	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.845)	316762	50.0000	49.70
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	111847	50.0000	48.27
	50 Toluene	91	6.978	6.978	(0.853)	382286	50.0000	51.13
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	107819	50.0000	48.06
	52 2-Hexanone	43	7.214	7.214	(0.881)	120971	100.000	99.51
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	69697	50.0000	48.21
	54 1,3-Dichloropropane	76	7.496	7.496	(0.916)	150157	50.0000	49.42
	55 Dibromochloromethane	129	7.691	7.691	(0.940)	84122	50.0000	55.77
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	73011	50.0000	52.18
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	82175	50.0000	51.49
	58 1-Chlorohexane	55	8.197	8.197	(1.477)	67624	50.0000	48.11
	59 Chlorobenzene	112	8.208	8.208	(1.003)	241338	50.0000	53.15
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	82559	50.0000	51.40
	61 Ethylbenzene	106	8.305	8.305	(1.015)	121960	50.0000	52.71
	62 m,p-Xylenes	106	8.407	8.407	(1.027)	308644	100.000	111.73
	63 o-Xylene	106	8.748	8.748	(1.069)	153135	50.0000	56.25
	64 Styrene	104	8.763	8.763	(1.071)	252469	50.0000	55.47
	66 Bromoform	173	8.916	8.916	(1.089)	51889	50.0000	50.56
	67 Isopropylbenzene	105	9.063	9.063	(1.107)	377003	50.0000	55.82
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	117242	50.0000	52.52
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	118236	50.0000	47.21
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	181042	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	113449	50.0000	49.75
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	23395	50.0000	50.98
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	444263	50.0000	56.74
	74 Bromobenzene	156	9.317	9.317	(0.916)	105687	50.0000	49.68
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	297172	50.0000	49.81

76	2-Chlorotoluene	91	9.482	9.482 (0.932)	271684	50.0000	51.28
77	4-Chlorotoluene	91	9.576	9.576 (0.941)	314925	50.0000	52.37

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62008.D Page 3
Report Date: 29-Jun-2024 12:15

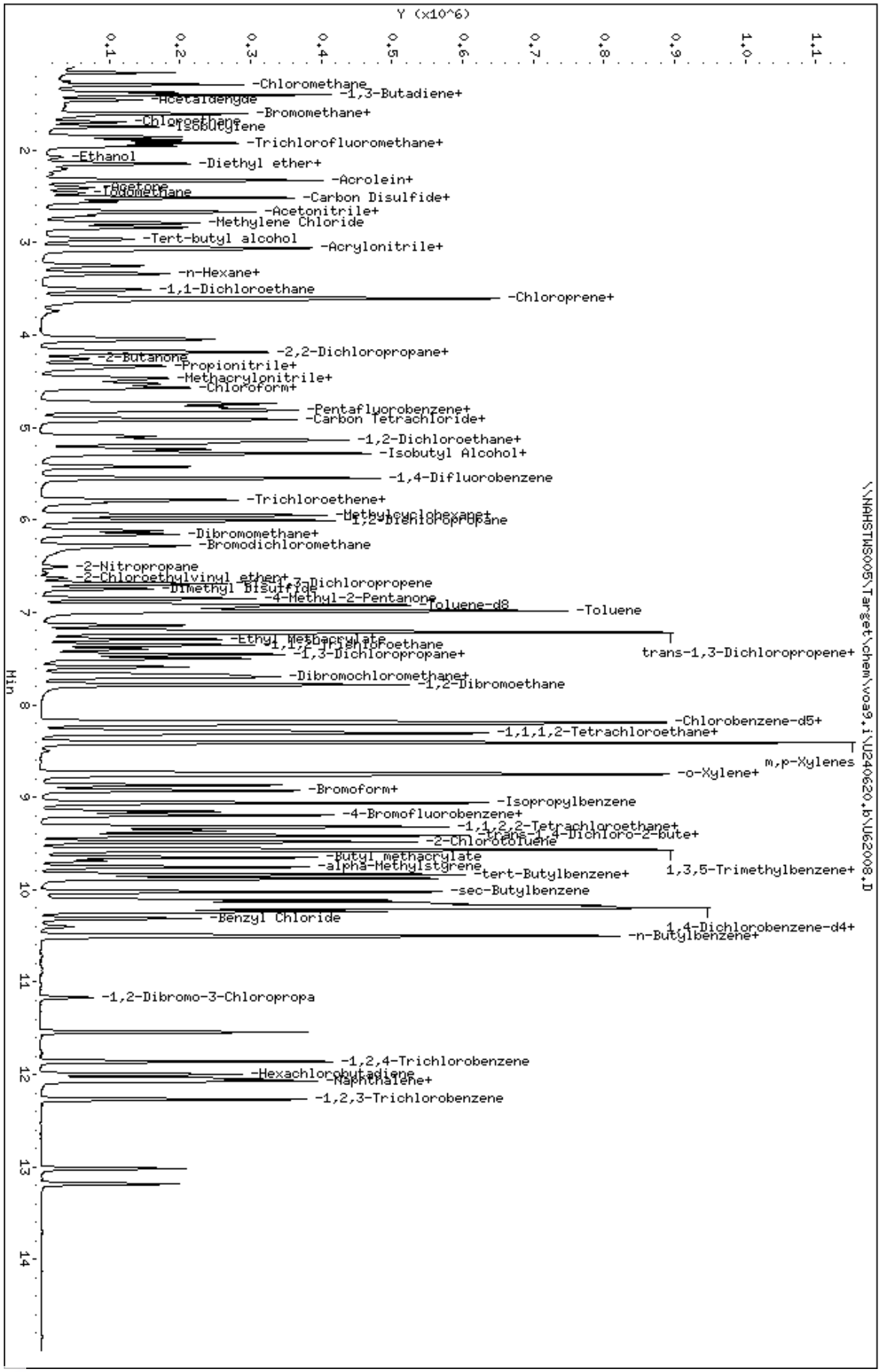
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.839	9.839	(0.967)	268164	50.0000	56.20
79	1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	283362	50.0000	49.18(M)
81	sec-Butylbenzene	105	10.022	10.022	(0.985)	355249	50.0000	55.90
82	p-Isopropyltoluene	119	10.146	10.146	(0.997)	303882	50.0000	49.64
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	191762	50.0000	48.99
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	197609	50.0000	52.76
86	Benzyl Chloride	91	10.311	10.311	(1.260)	146462	50.0000	48.63
87	n-Butylbenzene	91	10.495	10.495	(1.032)	267172	50.0000	49.12
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	187552	50.0000	48.12
89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	14223	50.0000	50.85
90	1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	120231	50.0000	50.99
91	Hexachlorobutadiene	225	12.002	12.002	(1.180)	52536	50.0000	50.25
92	Naphthalene	128	12.069	12.069	(1.186)	267603	50.0000	48.70
93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	111038	50.0000	51.43
146	Methyl acetate	43	2.705	2.705	(0.562)	69683	50.0000	53.74
138	Freon TF	101	2.330	2.330	(0.484)	69509	50.0000	51.49
141	Cyclohexane	56	4.778	4.778	(0.993)	121140	50.0000	49.94
142	Tetrahydrofuran	42	4.534	4.534	(0.942)	32150	100.000	107.92
147	Methylcyclohexane	55	5.944	5.944	(1.071)	204304	50.0000	52.73
135	1,4-Dioxane	88	6.165	6.165	(1.281)	20352	1000.00	1072.95
132	n-Butanol	56	5.816	5.816	(1.209)	46172	1000.00	1006.85
136	n-Hexane	57	3.335	3.335	(0.693)	86543	50.0000	53.65
139	Diethyl ether	59	2.139	2.139	(0.445)	64595	50.0000	53.02
148	Tert-butyl alcohol	59	2.960	2.960	(0.615)	146048	1000.00	1014.63
149	Isopropyl alcohol	45	2.555	2.555	(0.531)	113863	1000.00	1028.60
156	Diisopropyl ether	45	3.612	3.612	(0.751)	286139	50.0000	47.16
162	Butyl acrylate	55	8.733	8.733	(1.067)	149657	50.0000	49.51
164	Dicyclopentadiene	66	10.202	10.202	(1.003)	387581	50.0000	49.44
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	254707	50.0000	49.19
167	Ethanol	45	2.075	2.075	(0.431)	22141	1000.00	1040.84
172	tert-Butyl formate	59	5.235	5.235	(1.088)	124383	100.000	99.82
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	488444	1000.00	970.78
140	1,3-Butadiene	54	1.396	1.396	(0.290)	110594	50.0000	51.20
182	Epichlorohydrin	57	6.630	6.630	(1.195)	12486	200.000	196.27
M 94	1,2-Dichloroethylene (total)	96				173558	100.000	(a)
145	alpha-Methylstyrene	118	9.756	9.756	(0.959)	103865	50.0000	49.71
130	Ethyl Acetate	43	4.527	4.527	(0.941)	32325	50.0000	54.72(M)
131	Methyl Acrylate	55	4.362	4.362	(0.907)	98161	50.0000	47.08
189	n-Butyl acetate	43	7.702	7.702	(0.941)	134988	50.0000	51.56
134	Cyclohexanone	55	9.153	9.153	(0.900)	95172	1000.00	1019.59
185	Isoprene	39	2.150	2.150	(0.447)	18948	50.0000	51.88
188	Isopropyl acetate	43	5.280	5.280	(0.951)	241206	50.0000	49.44
150	Allyl alcohol	57	3.335	3.335	(0.693)	86543	1000.00	1073.18
194	Acetaldehyde	44	1.456	1.456	(0.303)	84508	200.000	200.98(M)
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	62950	50.0000	51.26
202	Isobutylene	41	1.745	1.745	(0.363)	41377	50.0000	49.35(M)
133	Ethyl Acrylate	55	5.944	5.944	(1.235)	204304	50.0000	51.63
163	Butyl methacrylate	41	9.647	9.647	(0.948)	101877	50.0000	55.58
159	Propylene oxide	43	2.195	2.195	(0.456)	10837	100.000	94.30
178	Ethylene oxide	44	1.603	1.603	(0.333)	193428	100.000	103.58(M)
203	2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	98009	50.0000	49.81
204	Tetrahydrothiophene	60	7.672	7.672	(0.937)	94568	50.0000	50.68(A)

205 sec-Butyl Ether	57	7.214	7.214 (0.881)	172514	50.0000	47.02(AM)
187 n-Amyl acetate	43	8.931	8.931 (1.091)	145610	50.0000	50.12

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
206 2-Chloropropene	41	1.921	1.921	(0.399)	131745	50.0000	51.02(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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Sample Info: VSTD050;VSTD050;1;7
Purge Volume: 5.0
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Operator: TS
Column diameter: 0.18

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Inj Date : 20-JUN-2024 13:32
InstruID : VOA9.i
LabSampID : VSTD050

Dichlorodifluoromethane (75-71-8)

BEFORE

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29-Jun-2024
12:15
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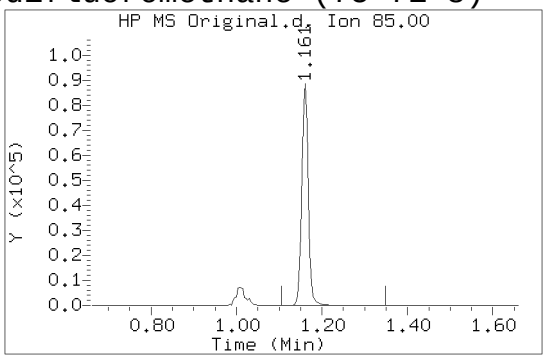

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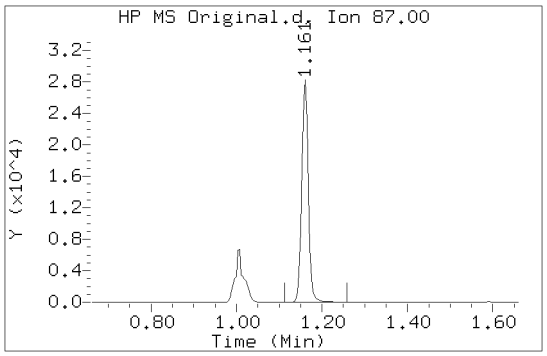

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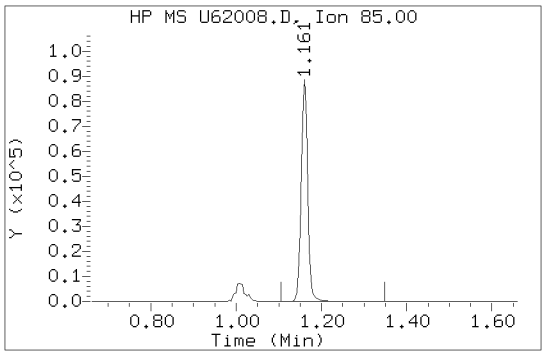

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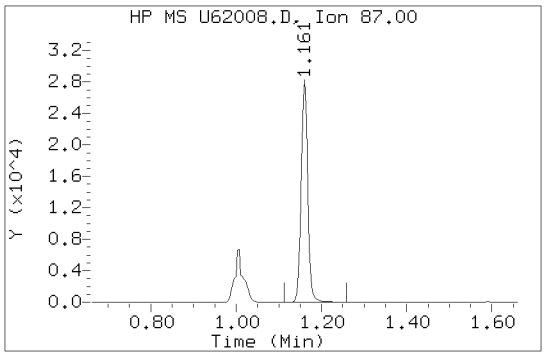

Vinyl Chloride (75-01-4)

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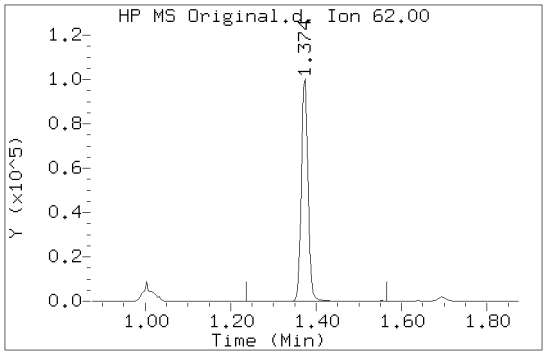

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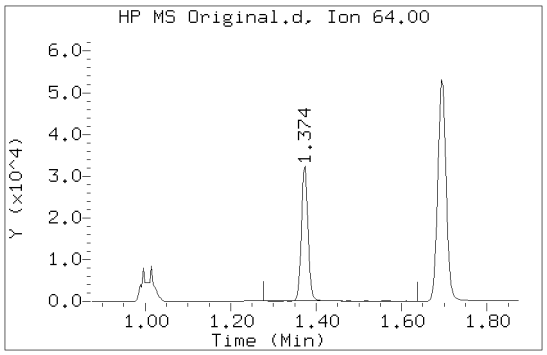

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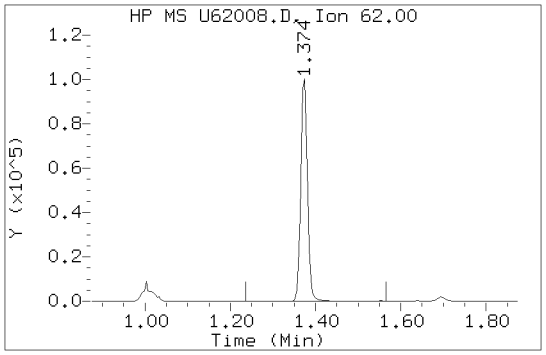

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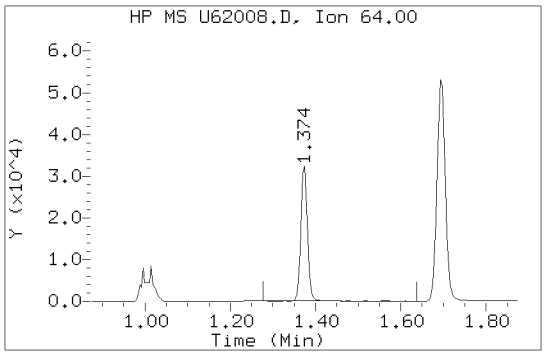

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LabSampID : VSTD050

1,1-Dichloropropene (563-58-6)

Reason Code:

BEFORE

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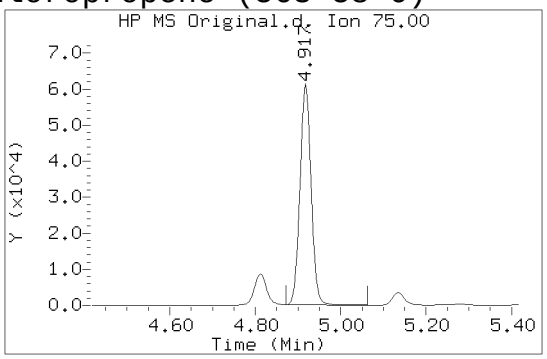

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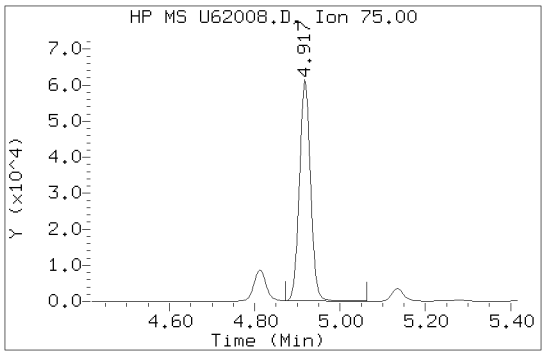

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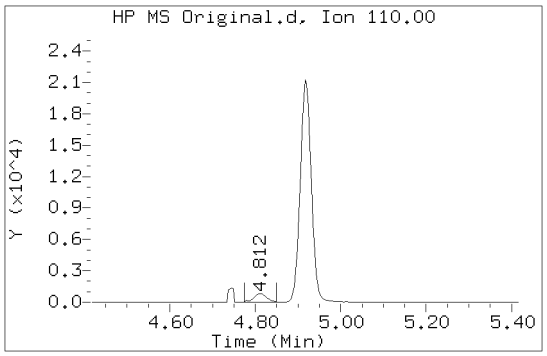

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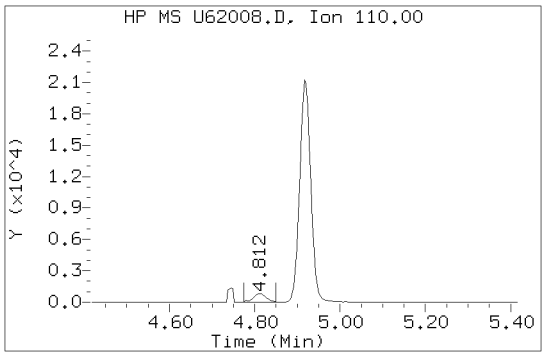

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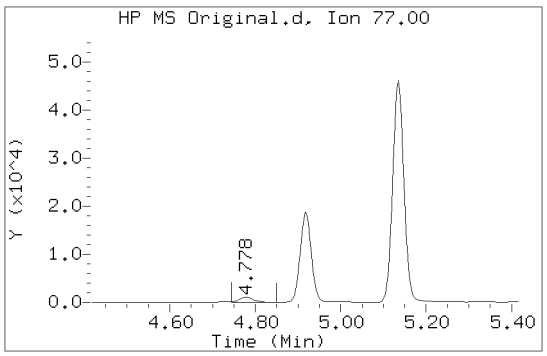

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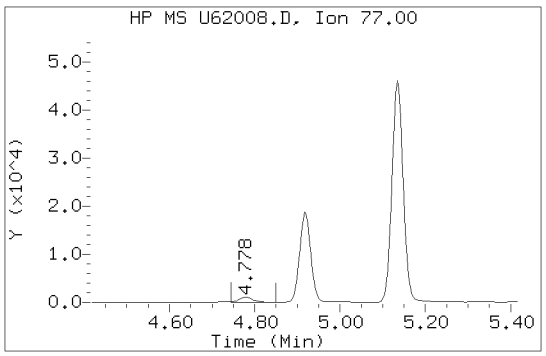

Carbon Tetrachloride (56-23-5)

Reason Code:

BEFORE

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12:15
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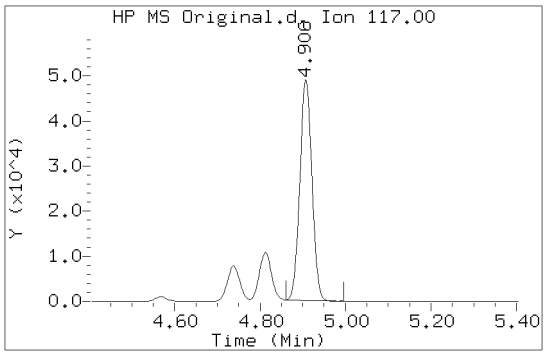
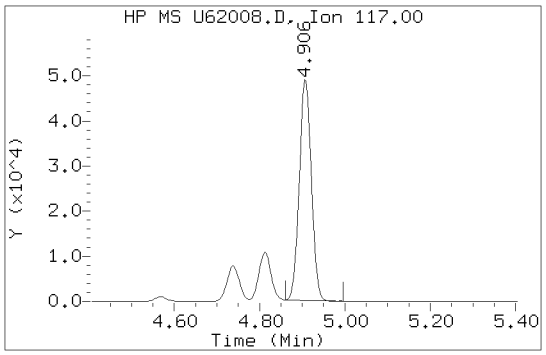
zaid



AFTER

MASS
117
AREA
97926
HEIGHT
48968
29-Jun-2024
12:15
s
zaid



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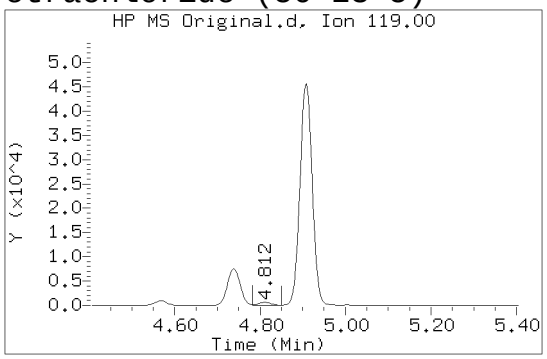
Inj Date : 20-JUN-2024 13:32
InstruID : VOA9.i
LabSampID : VSTD050

Carbon Tetrachloride (56-23-5)

Reason Code:

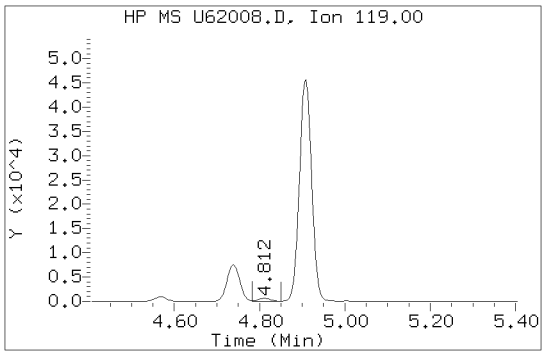
BEFORE

MASS
119
AREA
1223
HEIGHT
612
29-Jun-2024
12:15
s
zaid



AFTER

MASS
119
AREA
1223
HEIGHT
612
29-Jun-2024
12:15
s
zaid

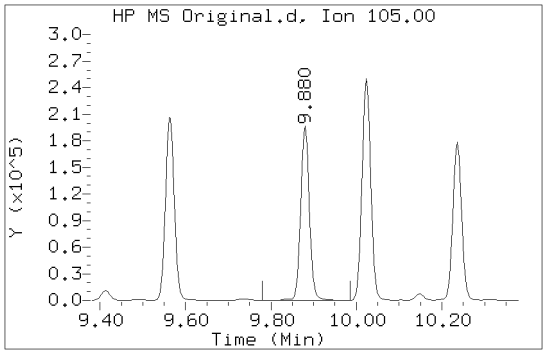


1,2,4-Trimethylbenzene (95-63-6)

Reason Code:

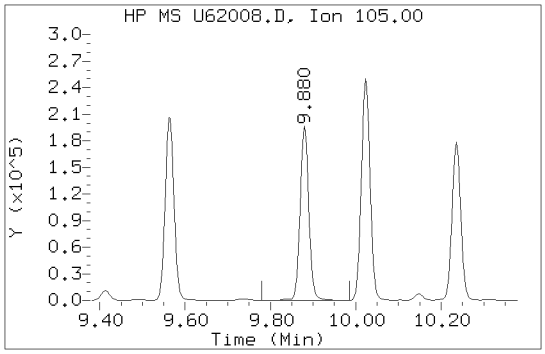
BEFORE

MASS
105
AREA
283362
HEIGHT
196556
29-Jun-2024
12:15
s
zaid



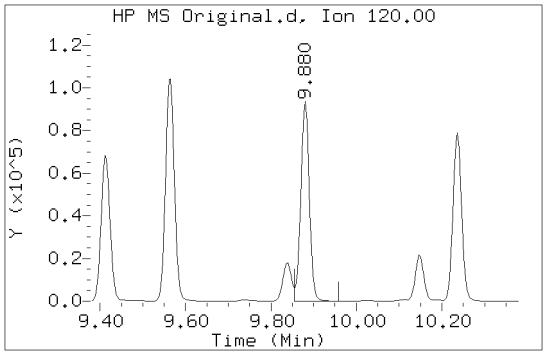
AFTER

MASS
105
AREA
283362
HEIGHT
196556
29-Jun-2024
12:15
s
zaid



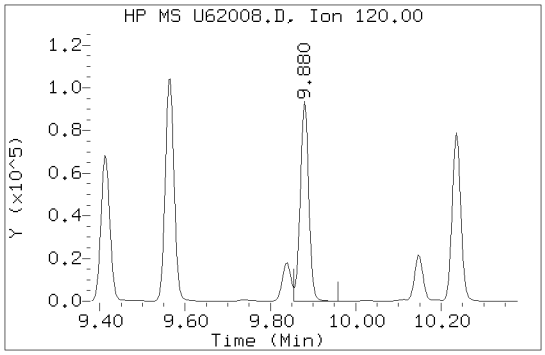
BEFORE

MASS
120
AREA
132987
HEIGHT
93592
29-Jun-2024
12:15
s
zaid



AFTER

MASS
120
AREA
132987
HEIGHT
93592
29-Jun-2024
12:15
s
zaid

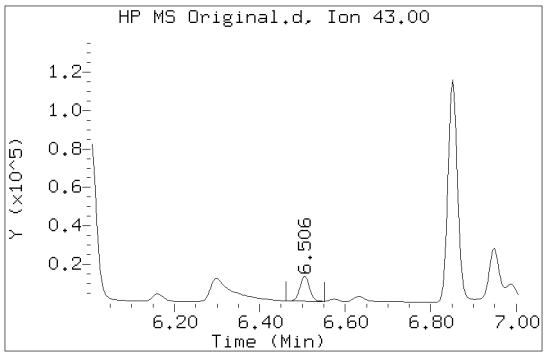


2-Nitropropane (79-46-9)

Reason Code:

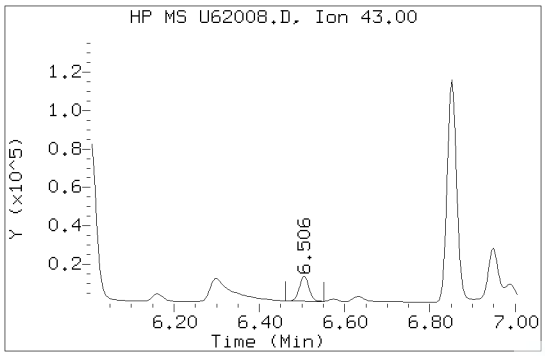
BEFORE

MASS
43
AREA
20359
HEIGHT
12940
29-Jun-2024
12:15
s
zaid



AFTER

MASS
43
AREA
20359
HEIGHT
12940
29-Jun-2024
12:15
s
zaid



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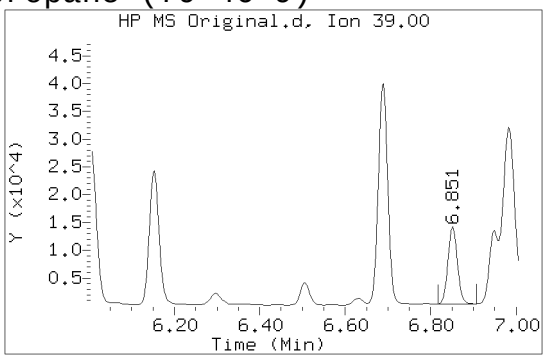
Inj Date : 20-JUN-2024 13:32
InstruID : VOA9.i
LabSampID : VSTD050

2-Nitropropane (79-46-9)

Reason Code:

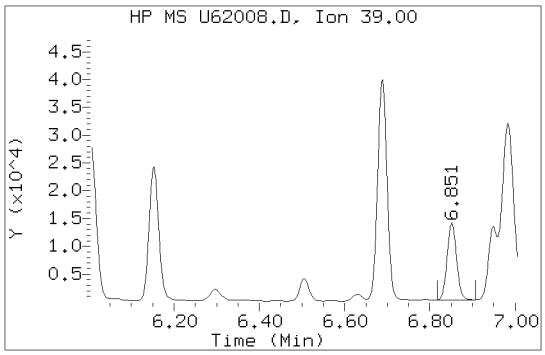
BEFORE

MASS
39
AREA
21437
HEIGHT
13970
29-Jun-2024
12:15
s
zaid



AFTER

MASS
39
AREA
21437
HEIGHT
13970
29-Jun-2024
12:15
s
zaid

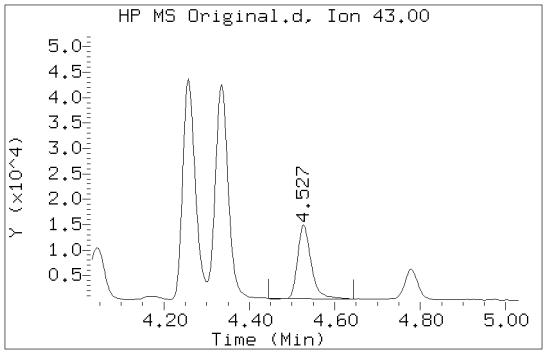


Ethyl Acetate (141-78-6)

Reason Code:

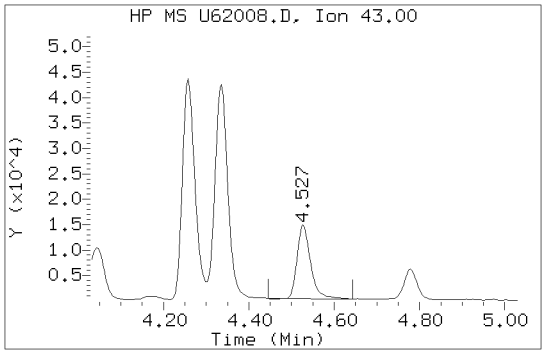
BEFORE

MASS
43
AREA
32325
HEIGHT
14524
29-Jun-2024
12:15
s
zaid



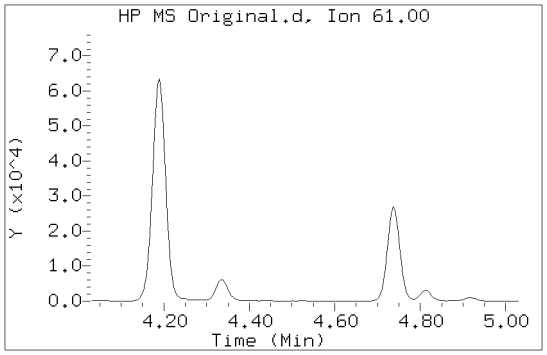
AFTER

MASS
43
AREA
32325
HEIGHT
14524
29-Jun-2024
12:15
s
zaid



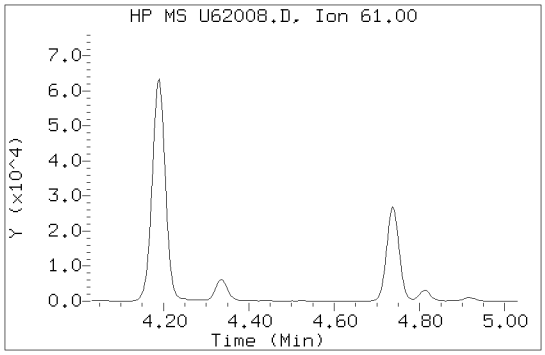
BEFORE

MASS
61
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
61
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



BEFORE

MASS
70
AREA
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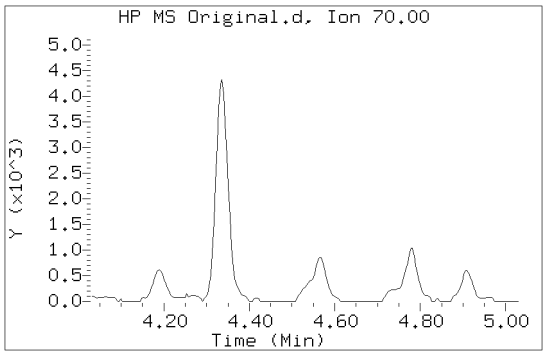
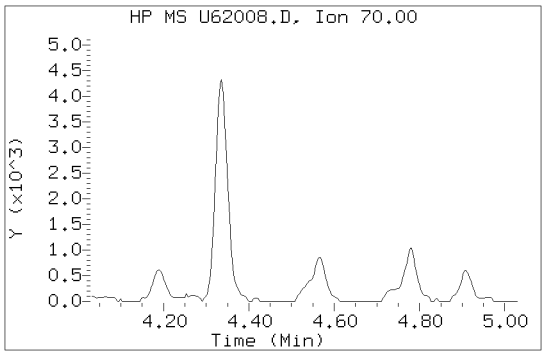
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
70
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



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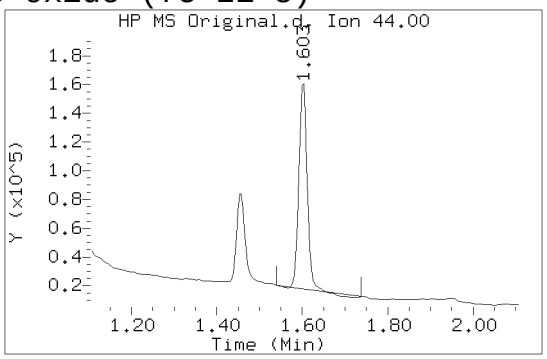
Inj Date : 20-JUN-2024 13:32
InstruID : VOA9.i
LabSampID : VSTD050

Ethylene oxide (75-21-8)

Reason Code:

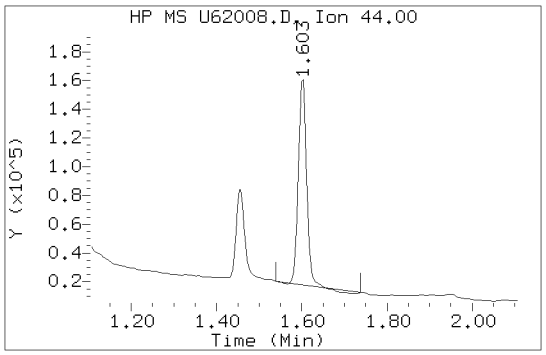
BEFORE

MASS
44
AREA
193428
HEIGHT
142755
29-Jun-2024
12:15
s
zaid



AFTER

MASS
44
AREA
193428
HEIGHT
142755
29-Jun-2024
12:15
s
zaid

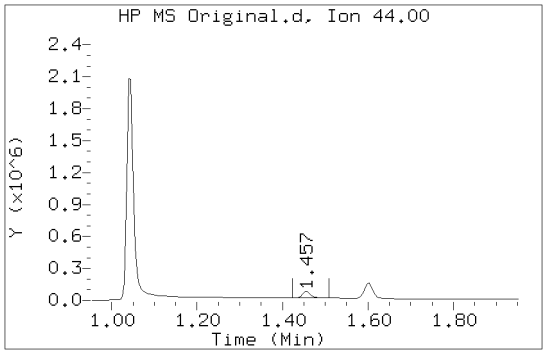


Acetaldehyde (75-07-0)

Reason Code:

BEFORE

MASS
44
AREA
84508
HEIGHT
61527
29-Jun-2024
12:15
s
zaid



AFTER

MASS
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AREA
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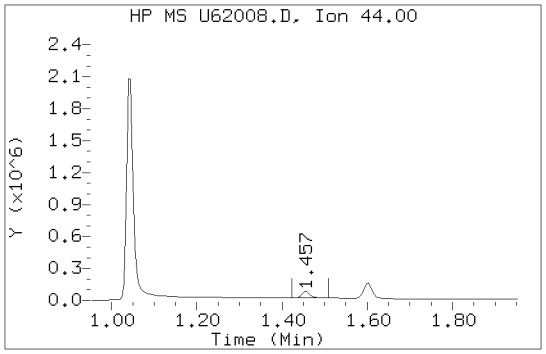
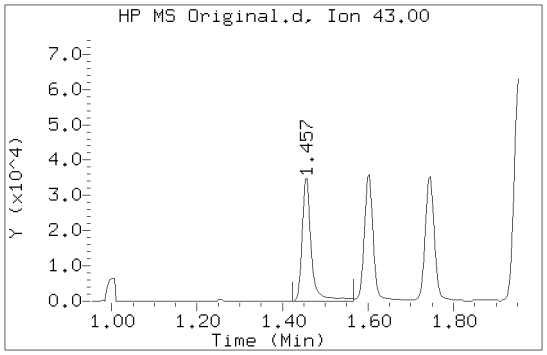
HEIGHT
61527
29-Jun-2024
12:15
s
zaid



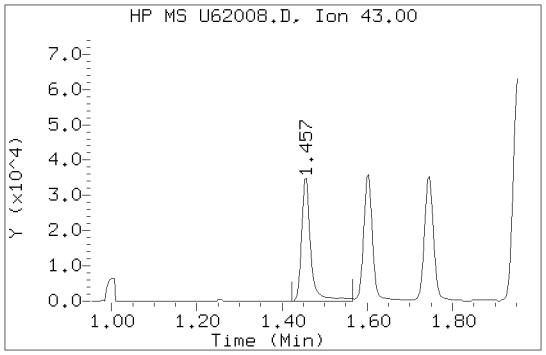
BEFORE

MASS
43
AREA
53691
HEIGHT
34856
29-Jun-2024
12:15
s
zaid



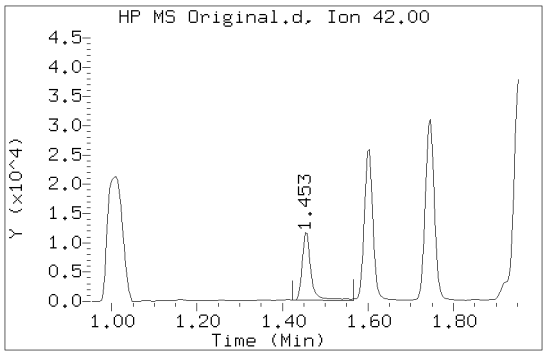
AFTER

MASS
43
AREA
53691
HEIGHT
34856
29-Jun-2024
12:15
s
zaid



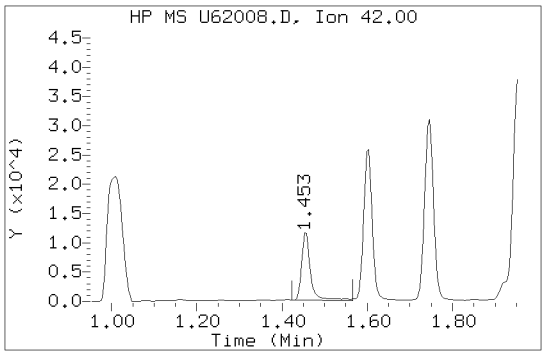
BEFORE

MASS
42
AREA
17055
HEIGHT
11495
29-Jun-2024
12:15
s
zaid



AFTER

MASS
42
AREA
17055
HEIGHT
11495
29-Jun-2024
12:15
s
zaid



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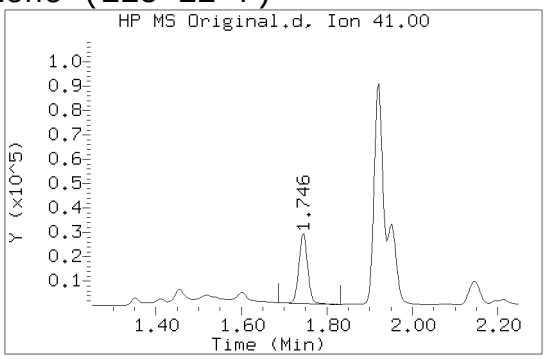
Inj Date : 20-JUN-2024 13:32
InstruID : VOA9.i
LabSampID : VSTD050

Isobutylene (115-11-7)

Reason Code:

BEFORE

MASS
41
AREA
41377
HEIGHT
28761
29-Jun-2024
12:15
s
zaid



AFTER

MASS
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AREA
41377
HEIGHT
28761
29-Jun-2024
12:15
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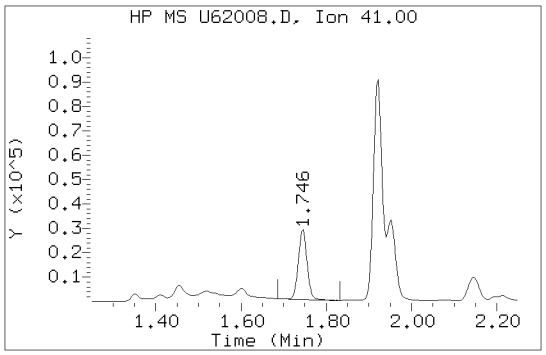
zaid



BEFORE

MASS
56
AREA
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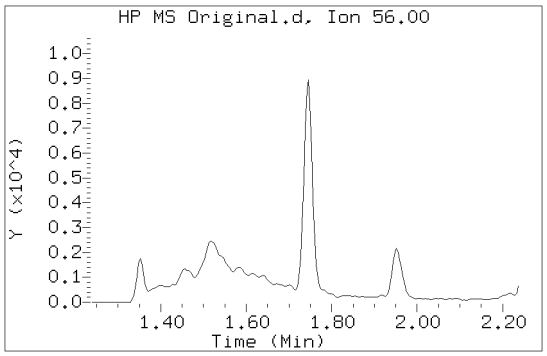
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
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AREA
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HEIGHT
0
29-Jun-2024
12:15
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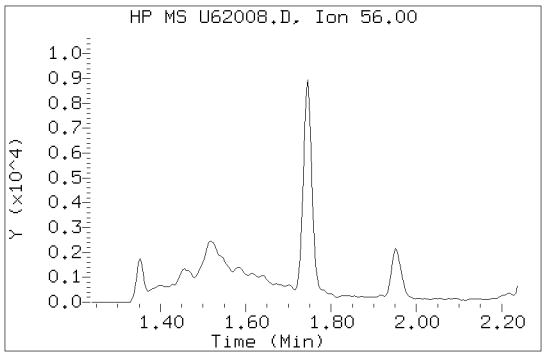
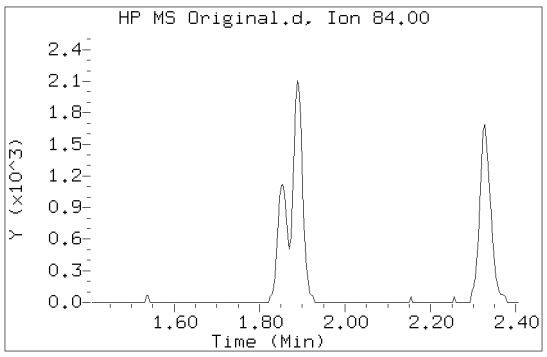
zaid



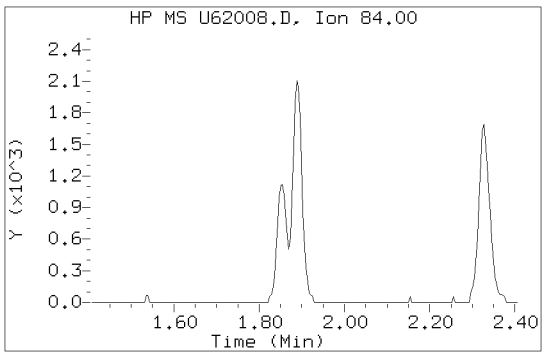
BEFORE

MASS
84
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
84
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid

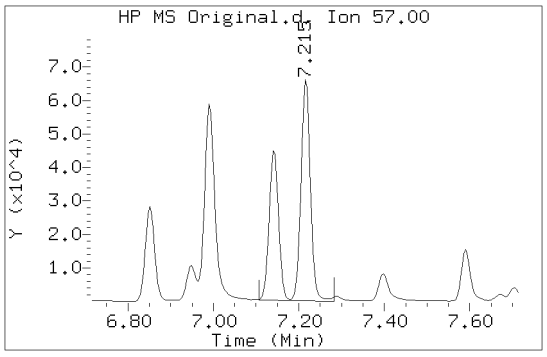


sec-Butyl Ether (6863-58-7)

Reason Code:

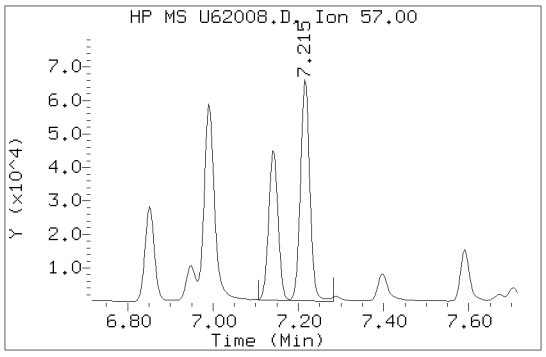
BEFORE

MASS
57
AREA
172514
HEIGHT
66021
29-Jun-2024
12:15
s
zaid



AFTER

MASS
57
AREA
172514
HEIGHT
66021
29-Jun-2024
12:15
s
zaid



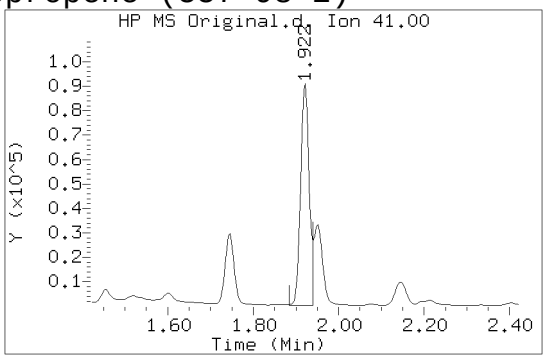
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62008.D
Inj Date : 20-JUN-2024 13:32
InstruID : VOA9.i
LabSampID : VSTD050

2-Chloropropene (557-98-2)

Reason Code:

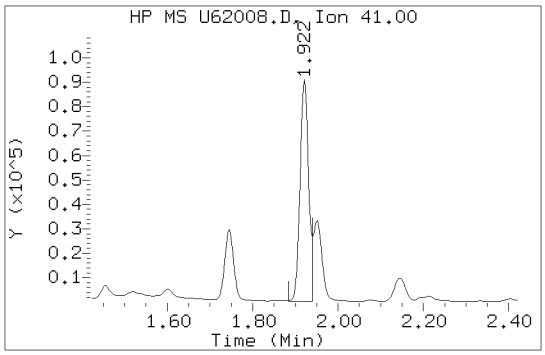
BEFORE

MASS
41
AREA
131745
HEIGHT
90667
29-Jun-2024
12:15
s
zaid



AFTER

MASS
41
AREA
131745
HEIGHT
90667
29-Jun-2024
12:15
s
zaid



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62009.D Page 1
Report Date: 29-Jun-2024 12:19

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62009.D
Lab Smp Id: VSTD100 Client Smp ID: VSTD100
Inj Date : 20-JUN-2024 13:53
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\U240620.b\8260C.m
Meth Date : 29-Jun-2024 12:19 VOA9.i Quant Type: ISTD
Cal Date : 20-JUN-2024 13:10 Cal File: U62007.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: NAHSTW7014

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)	247855	50.0000	
2	Dichlorodifluoromethane	85	1.171	1.171	(0.243)	176654	100.000	99.79(M)
3	Chloromethane	50	1.303	1.303	(0.270)	359325	100.000	98.24
4	Propionitrile	54	4.339	4.339	(0.900)	233070	1000.00	1006.44
5	Vinyl Chloride	62	1.385	1.385	(0.287)	214186	100.000	97.35(M)
6	Bromomethane	94	1.621	1.621	(0.337)	79022	100.000	96.02
7	Chloroethane	64	1.704	1.704	(0.354)	133622	100.000	97.72
8	Trichlorofluoromethane	101	1.902	1.902	(0.395)	240632	100.000	101.36
9	Acrolein	56	2.270	2.270	(0.471)	15190	200.000	196.94
10	Acetone	43	2.412	2.412	(0.501)	133780	200.000	219.71
11	1,1-Dichloroethene	96	2.337	2.337	(0.485)	136391	100.000	94.32
12	Isobutyl Alcohol	43	5.284	5.284	(1.096)	467797	2000.00	1911.86
13	Acetonitrile	39	2.675	2.675	(0.555)	192653	1000.00	1028.24
14	Allyl Chloride	41	2.678	2.678	(0.556)	444263	100.000	100.98
15	Iodomethane	142	2.472	2.472	(0.513)	128699	200.000	201.75
16	Acrylonitrile	53	3.068	3.068	(0.637)	118455	200.000	196.39
17	Methylene Chloride	84	2.798	2.798	(0.581)	159588	100.000	95.92
18	Methyl tert-butyl ether	73	3.087	3.087	(0.641)	417535	100.000	97.54
19	Carbon Disulfide	76	2.525	2.525	(0.524)	796100	200.000	199.79
20	trans-1,2-Dichloroethene	96	3.064	3.064	(0.636)	147881	100.000	98.28

21 Vinyl Acetate	43	4.343	4.343 (0.901)	169891	200.000	196.83
22 1,1-Dichloroethane	63	3.518	3.518 (0.730)	280383	100.000	98.51

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62009.D Page 2
Report Date: 29-Jun-2024 12:19

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	3.616	3.616	(0.750)	239330	100.000	97.58
	24 2-Butanone	43	4.264	4.264	(0.885)	168677	200.000	196.19
	25 Methacrylonitrile	41	4.496	4.496	(0.933)	109481	100.000	100.62(a)
	26 2,2-Dichloropropane	77	4.185	4.185	(0.869)	221563	100.000	96.52
	27 cis-1,2-Dichloroethene	96	4.200	4.200	(0.872)	175084	100.000	98.06
	28 Chloroform	83	4.575	4.575	(0.949)	287623	100.000	99.00
	29 Bromochloromethane	128	4.470	4.470	(0.928)	87433	100.000	88.11
$	30 Dibromofluoromethane	113	4.751	4.751	(0.986)	159953	100.000	97.15
	31 1,1,1-Trichloroethane	97	4.744	4.744	(0.984)	234507	100.000	101.90
	32 1,1-Dichloropropene	75	4.924	4.924	(0.887)	215500	100.000	98.16(M)
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	229280	100.000	99.34
	34 Carbon Tetrachloride	117	4.913	4.913	(0.885)	192077	100.000	104.39(M)
$	35 1,2-Dichloroethane-d4	65	5.100	5.100	(1.058)	196850	100.000	93.74
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	359862	50.0000	
	37 Benzene	78	5.141	5.141	(0.926)	650901	100.000	87.88
	38 Trichloroethene	130	5.790	5.790	(1.043)	168252	100.000	93.61
	39 Bromodichloromethane	83	6.277	6.277	(1.130)	209279	100.000	99.97
	40 Methyl Methacrylate	41	5.820	5.820	(1.208)	67419	100.000	103.94
	41 2-Chloroethylvinyl ether	63	6.577	6.577	(1.184)	12610	200.000	206.99
	42 1,2-Dichloropropane	63	6.011	6.011	(1.082)	176759	100.000	90.10
	43 2-Nitropropane	43	6.510	6.510	(1.351)	41085	100.000	104.84(M)
	44 Dibromomethane	93	6.120	6.120	(1.102)	103281	100.000	90.19
	45 4-Methyl-2-Pentanone	43	6.854	6.854	(0.837)	350768	200.000	192.85
	46 cis-1,3-Dichloropropene	75	6.689	6.689	(1.205)	257388	100.000	105.24
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	330032	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	607305	100.000	94.80
	49 Ethyl Methacrylate	69	7.289	7.289	(1.312)	223942	100.000	97.98
	50 Toluene	91	6.982	6.982	(0.853)	703496	100.000	93.61
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	213403	100.000	94.22
	52 2-Hexanone	43	7.218	7.218	(0.882)	232489	200.000	191.07
	53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	128815	100.000	88.65
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	275864	100.000	90.33
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	165169	100.000	108.95
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	135713	100.000	96.49
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	153863	100.000	95.92
	58 1-Chlorohexane	55	8.196	8.196	(1.476)	128328	100.000	93.24
	59 Chlorobenzene	112	8.211	8.211	(1.003)	439831	100.000	97.00
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	157278	100.000	97.42
	61 Ethylbenzene	106	8.309	8.309	(1.015)	227251	100.000	97.72
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	574673	200.000	206.97
	63 o-Xylene	106	8.747	8.747	(1.069)	281173	100.000	102.76
	64 Styrene	104	8.762	8.762	(1.071)	484409	100.000	105.89
	66 Bromoform	173	8.920	8.920	(1.090)	106443	100.000	98.15
	67 Isopropylbenzene	105	9.062	9.062	(1.107)	716163	100.000	105.50
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	217556	100.000	97.15
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	230325	100.000	91.51
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	182129	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	220140	100.000	95.20
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	45120	100.000	97.83
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	817929	100.000	103.85
	74 Bromobenzene	156	9.317	9.317	(0.916)	197434	100.000	92.26
	75 1,3,5-Trimethylbenzene	105	9.565	9.565	(0.940)	586805	100.000	96.15

76	2-Chlorotoluene	91	9.482	9.482 (0.932)	502095	100.000	94.20
77	4-Chlorotoluene	91	9.576	9.576 (0.941)	587704	100.000	97.15

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62009.D Page 3
Report Date: 29-Jun-2024 12:19

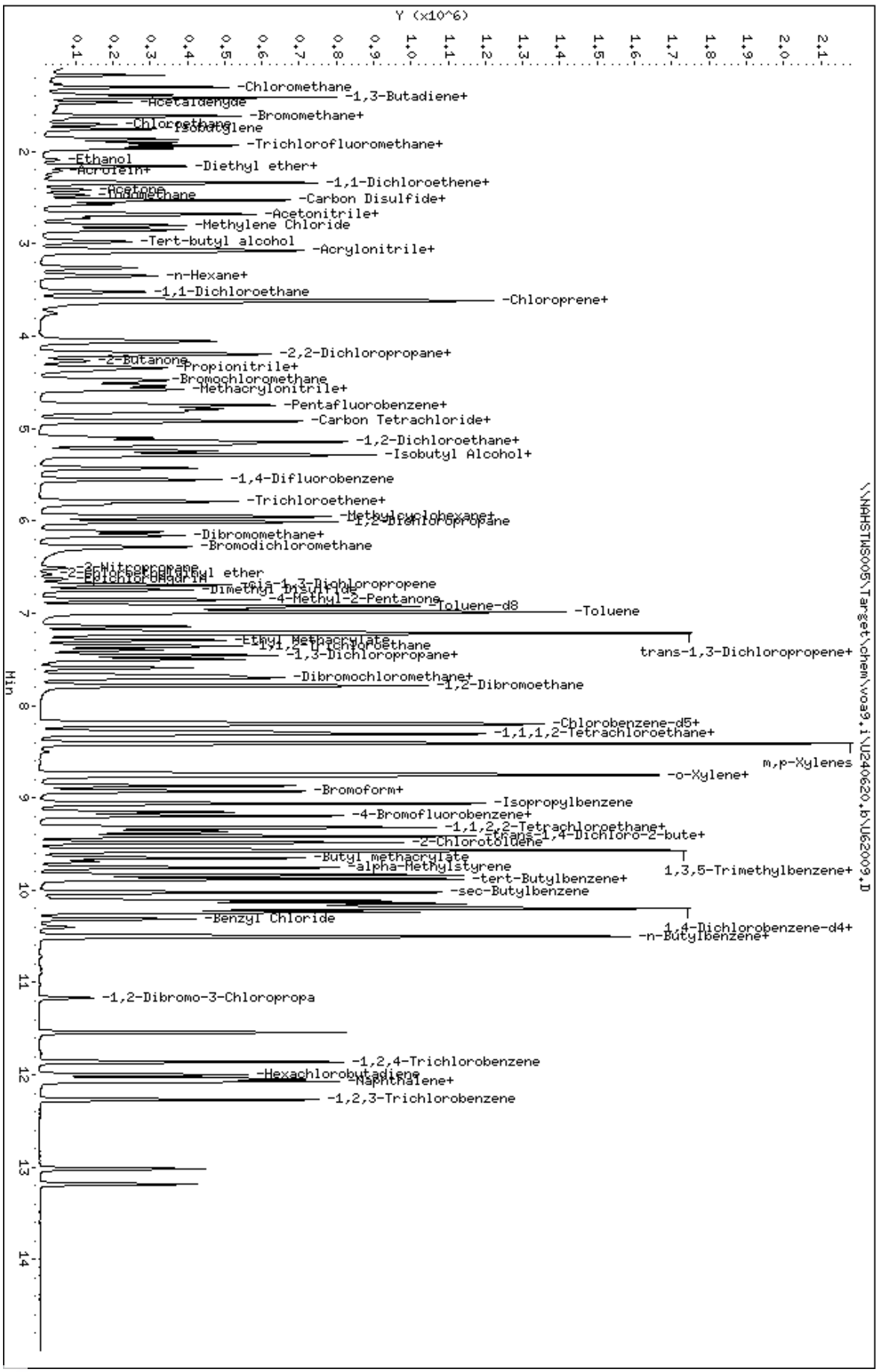
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.838	9.838	(0.967)	505818	100.000	105.37
79	1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	557088	100.000	96.12(M)
81	sec-Butylbenzene	105	10.022	10.022	(0.985)	683448	100.000	106.91
82	p-Isopropyltoluene	119	10.146	10.146	(0.997)	597283	100.000	95.41
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	354480	100.000	90.03
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	365510	100.000	97.54
86	Benzyl Chloride	91	10.311	10.311	(1.260)	265629	100.000	92.12
87	n-Butylbenzene	91	10.494	10.494	(1.032)	534334	100.000	96.31
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	347261	100.000	88.58
89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	29112	100.000	98.40
90	1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	238981	100.000	100.76
91	Hexachlorobutadiene	225	12.001	12.001	(1.180)	103114	100.000	98.05
92	Naphthalene	128	12.069	12.069	(1.186)	549668	100.000	97.40
93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	216756	100.000	99.81
146	Methyl acetate	43	2.720	2.720	(0.564)	129001	100.000	103.24
138	Freon TF	101	2.341	2.341	(0.486)	132225	100.000	99.90
141	Cyclohexane	56	4.785	4.785	(0.993)	228460	100.000	96.47
142	Tetrahydrofuran	42	4.541	4.541	(0.942)	61276	200.000	208.74
147	Methylcyclohexane	55	5.947	5.947	(1.071)	403390	100.000	105.56(A)
135	1,4-Dioxane	88	6.168	6.168	(1.280)	38441	2000.00	2029.31
132	n-Butanol	56	5.824	5.824	(1.208)	94987	2000.00	2009.25
136	n-Hexane	57	3.346	3.346	(0.694)	155405	100.000	97.78
139	Diethyl ether	59	2.150	2.150	(0.446)	123190	100.000	103.55
148	Tert-butyl alcohol	59	2.974	2.974	(0.617)	280071	2000.00	1986.51
149	Isopropyl alcohol	45	2.570	2.570	(0.533)	219355	2000.00	2025.63
156	Diisopropyl ether	45	3.623	3.623	(0.752)	539937	100.000	90.31
162	Butyl acrylate	55	8.732	8.732	(1.067)	305461	100.000	100.54
164	Dicyclopentadiene	66	10.202	10.202	(1.003)	755744	100.000	95.83
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	527417	100.000	101.24
167	Ethanol	45	2.090	2.090	(0.434)	42645	2000.00	2056.96
172	tert-Butyl formate	59	5.242	5.242	(1.088)	292643	200.000	200.02(A)
151	4-Methyl-2-pentanol	45	7.218	7.218	(1.300)	983232	2000.00	1981.17
140	1,3-Butadiene	54	1.411	1.411	(0.293)	214164	100.000	100.62
182	Epichlorohydrin	57	6.629	6.629	(1.194)	28979	400.000	405.67
M 94	1,2-Dichloroethylene (total)	96				322965	200.000	(a)
145	alpha-Methylstyrene	118	9.756	9.756	(0.959)	219549	100.000	99.22
130	Ethyl Acetate	43	4.534	4.534	(0.941)	57395	100.000	100.32(M)
131	Methyl Acrylate	55	4.369	4.369	(0.907)	191883	100.000	93.41
189	n-Butyl acetate	43	7.705	7.705	(0.941)	264922	100.000	100.67
134	Cyclohexanone	55	9.152	9.152	(0.900)	194238	2000.00	2030.58
185	Isoprene	39	2.161	2.161	(0.449)	35974	100.000	99.96
188	Isopropyl acetate	43	5.284	5.284	(0.951)	467903	100.000	97.23
150	Allyl alcohol	57	3.346	3.346	(0.694)	155405	2000.00	1955.71
194	Acetaldehyde	44	1.468	1.468	(0.305)	154867	400.000	373.78(M)
200	Dimethyl Disulfide	94	6.746	6.746	(0.824)	167585	100.000	99.85
202	Isobutylene	41	1.756	1.756	(0.364)	81097	100.000	96.86(M)
133	Ethyl Acrylate	55	5.947	5.947	(1.234)	403390	100.000	103.46
163	Butyl methacrylate	41	9.651	9.651	(0.949)	177629	100.000	96.77
159	Propylene oxide	43	2.206	2.206	(0.458)	23265	200.000	205.46(A)
178	Ethylene oxide	44	1.610	1.610	(0.334)	427784	200.000	232.48
203	2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	219028	100.000	101.22
204	Tetrahydrothiophene	60	7.672	7.672	(0.937)	181629	100.000	96.84(A)

205 sec-Butyl Ether	57	7.218	7.218 (0.882)	339960	100.000	92.19(AM)
187 n-Amyl acetate	43	8.931	8.931 (1.091)	277181	100.000	94.93

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
206 2-Chloropropene	41	1.932	1.932	(0.401)	261855	100.000	102.91(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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Sample Info: VSTD100;VSTD100;1;8
Purge Volume: 5.0
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Instrument: VOA9,i
Operator: TS
Column diameter: 0.18

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Inj Date : 20-JUN-2024 13:53
InstruID : VOA9.i
LabSampID : VSTD100

Dichlorodifluoromethane (75-71-8)

Reason Code:

BEFORE

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29-Jun-2024
12:15
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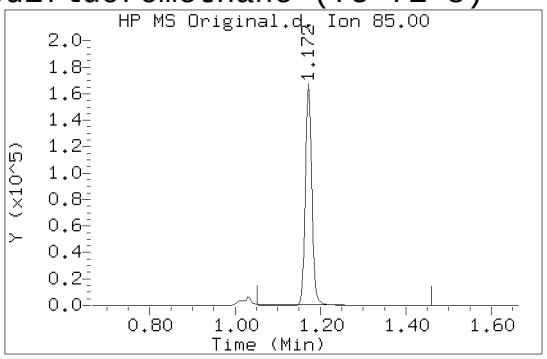

AFTER

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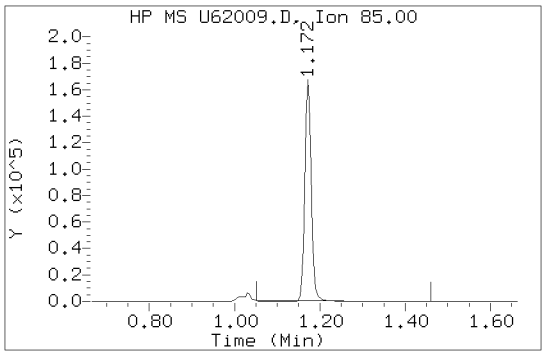

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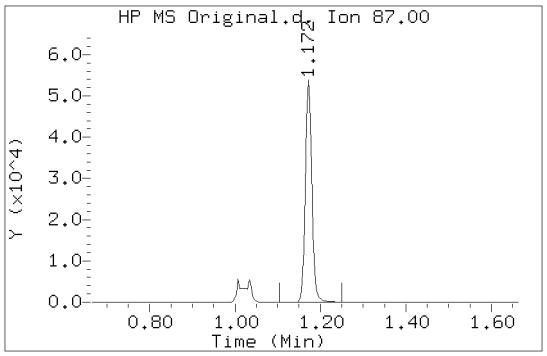

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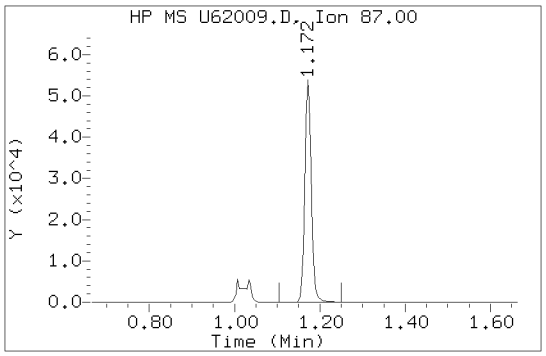

Vinyl Chloride (75-01-4)

Reason Code:

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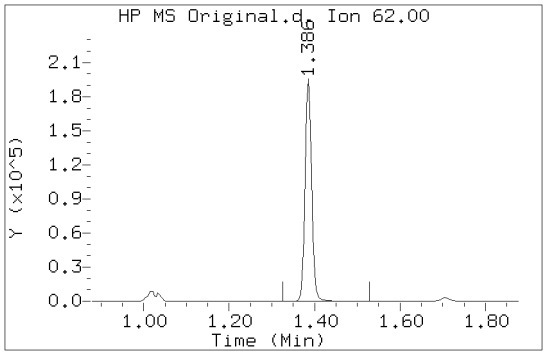

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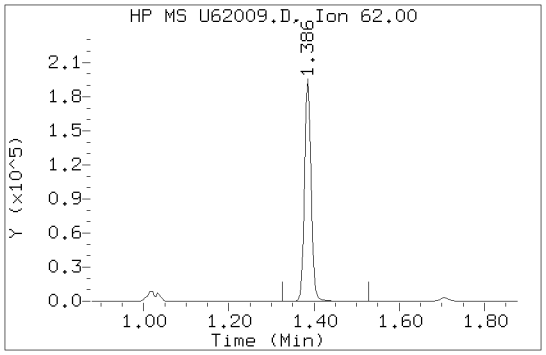

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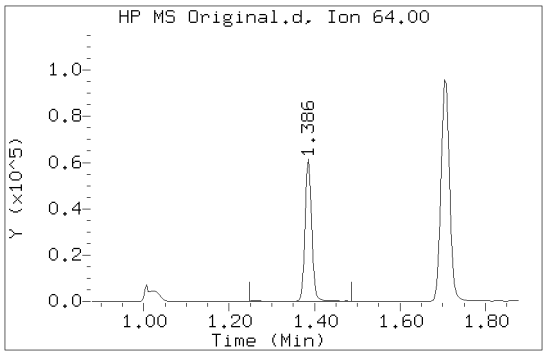

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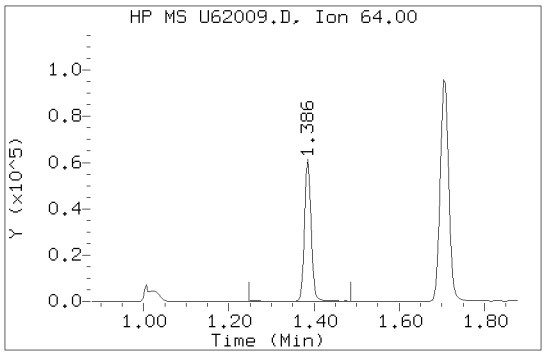

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Inj Date : 20-JUN-2024 13:53
InstruID : VOA9.i
LabSampID : VSTD100

1,1-Dichloropropene (563-58-6)

Reason Code:

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29-Jun-2024
12:15
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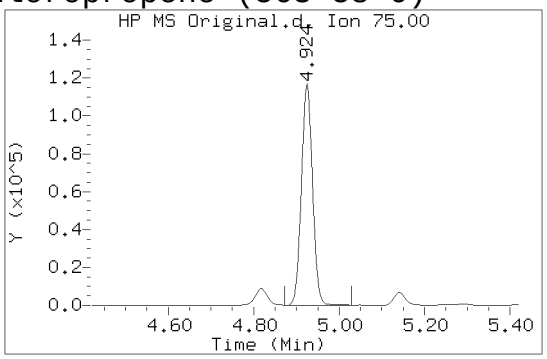

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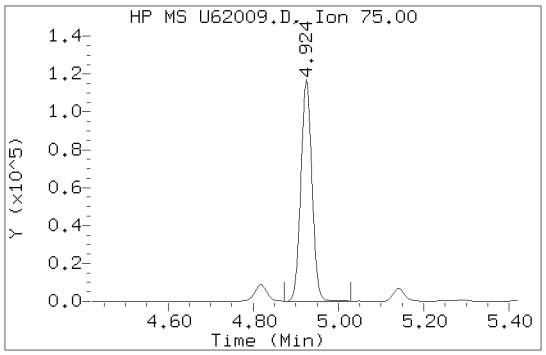

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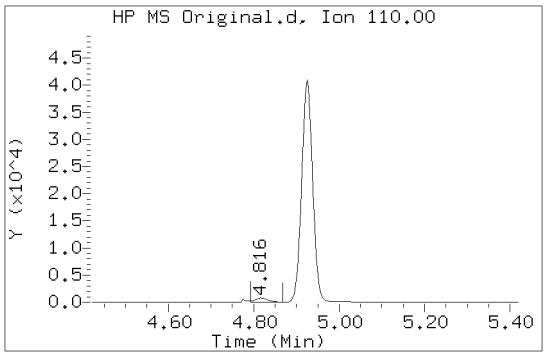

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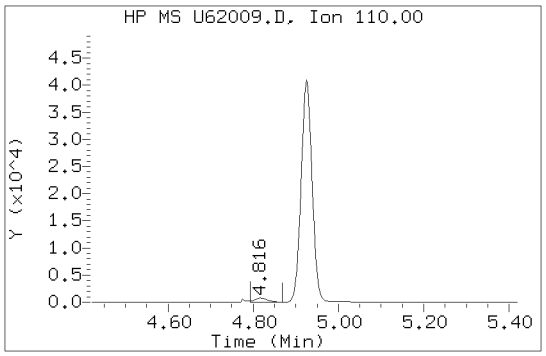

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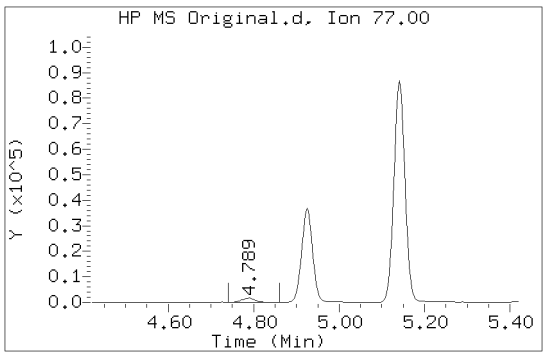

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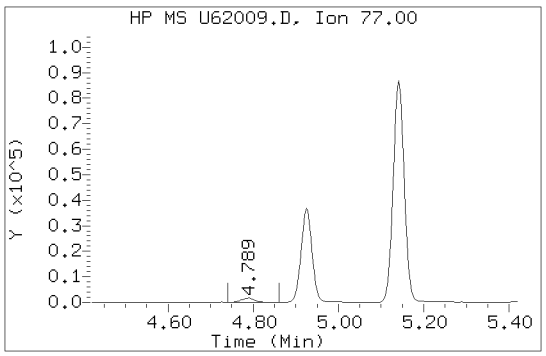

Carbon Tetrachloride (56-23-5)

Reason Code:

BEFORE
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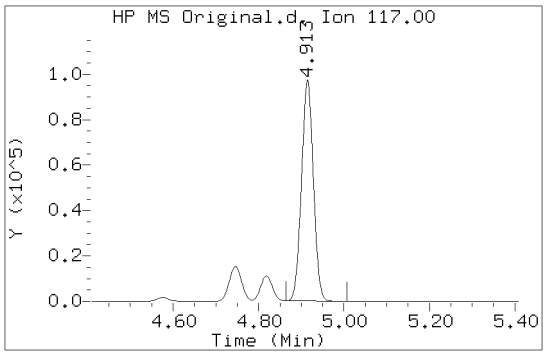
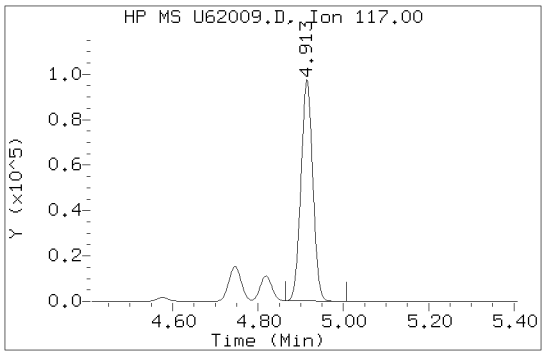
zaid



AFTER
MASS
117
AREA
192077
HEIGHT
97460
29-Jun-2024
12:18
s
zaid



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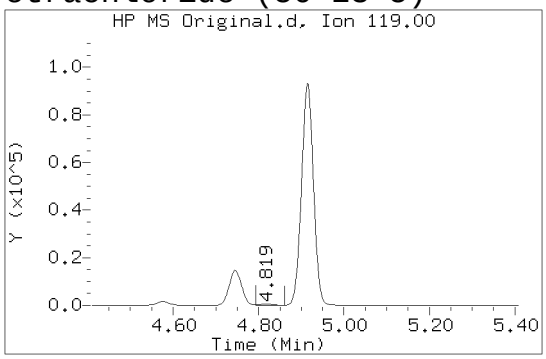
Inj Date : 20-JUN-2024 13:53
InstruID : VOA9.i
LabSampID : VSTD100

Carbon Tetrachloride (56-23-5)

Reason Code:

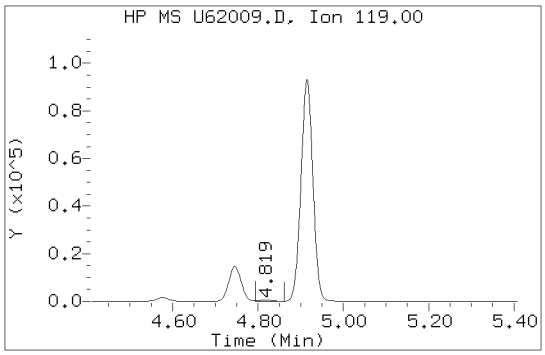
BEFORE

MASS
119
AREA
1221
HEIGHT
595
29-Jun-2024
12:15
s
zaid



AFTER

MASS
119
AREA
1221
HEIGHT
595
29-Jun-2024
12:18
s
zaid

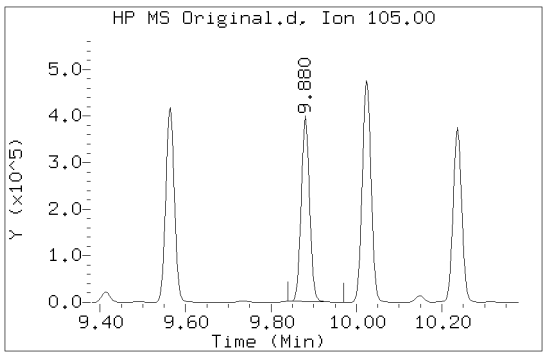


1,2,4-Trimethylbenzene (95-63-6)

Reason Code:

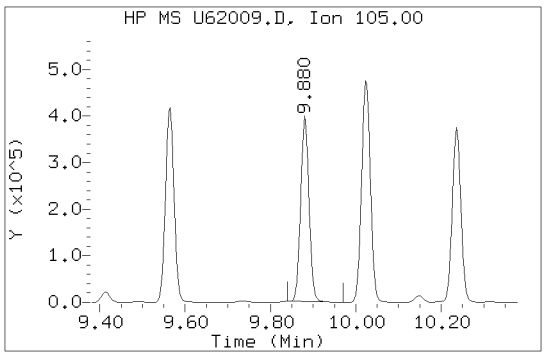
BEFORE

MASS
105
AREA
557088
HEIGHT
398984
29-Jun-2024
12:15
s
zaid



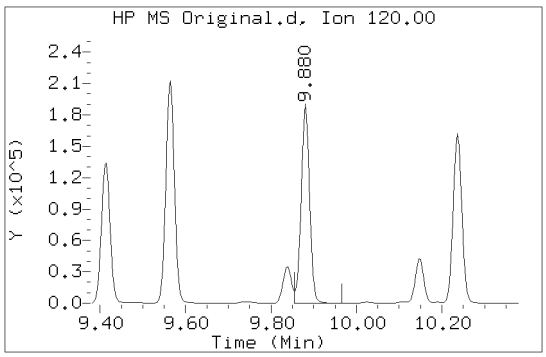
AFTER

MASS
105
AREA
557088
HEIGHT
398984
29-Jun-2024
12:18
s
zaid



BEFORE

MASS
120
AREA
268404
HEIGHT
190428
29-Jun-2024
12:15
s
zaid



AFTER

MASS
120
AREA
268404
HEIGHT
190428
29-Jun-2024
12:18
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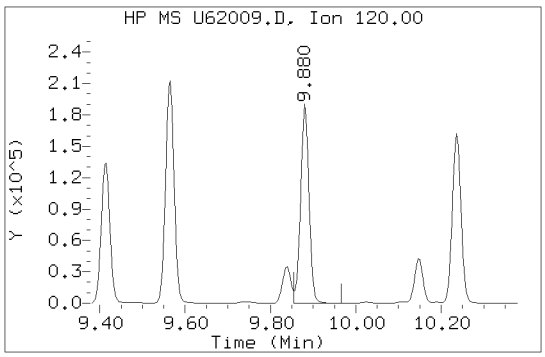
zaid



2-Nitropropane (79-46-9)

Reason Code:

BEFORE

MASS
43
AREA
41085
HEIGHT
26681
29-Jun-2024
12:15
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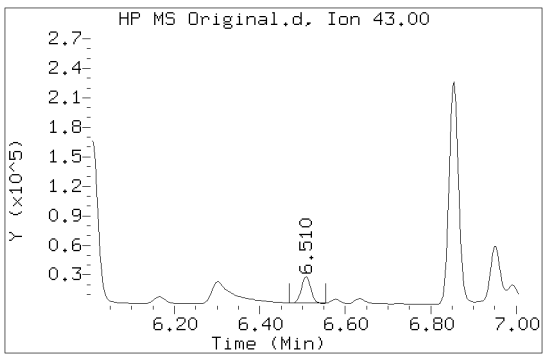
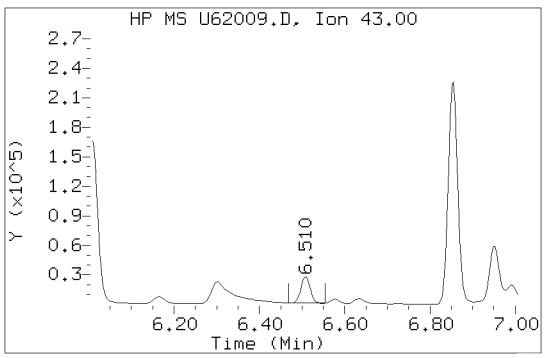
zaid



AFTER

MASS
43
AREA
41085
HEIGHT
26681
29-Jun-2024
12:18
s
zaid



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Inj Date : 20-JUN-2024 13:53
InstruID : VOA9.i
LabSampID : VSTD100

2-Nitropropane (79-46-9)

Reason Code:

BEFORE

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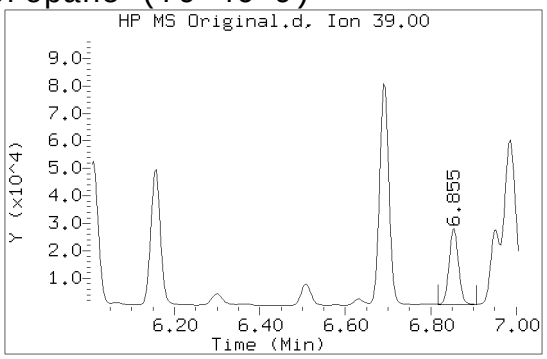
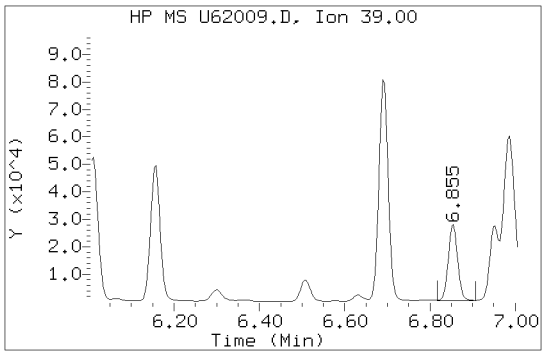
39
AREA
41726
HEIGHT
27752
29-Jun-2024
12:15
s
zaid



AFTER

MASS
39
AREA
41726
HEIGHT
27752
29-Jun-2024
12:18
s
zaid

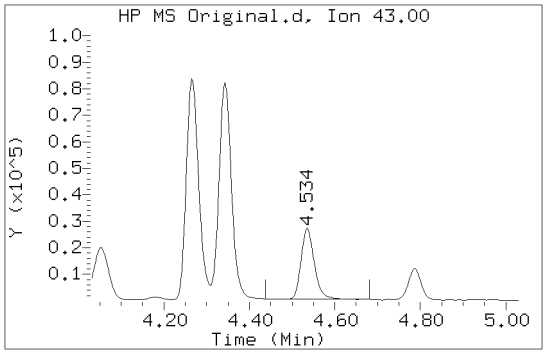


Ethyl Acetate (141-78-6)

Reason Code:

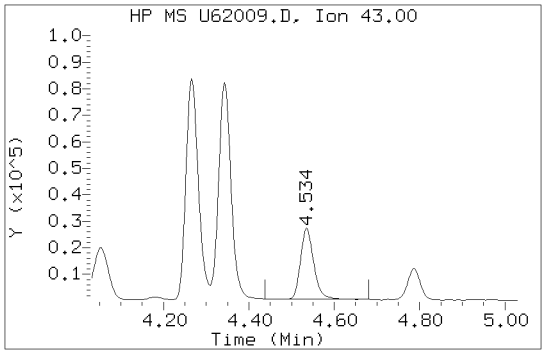
BEFORE

MASS
43
AREA
57395
HEIGHT
26781
29-Jun-2024
12:15
s
zaid



AFTER

MASS
43
AREA
57395
HEIGHT
26781
29-Jun-2024
12:18
s
zaid



BEFORE

MASS
61
AREA
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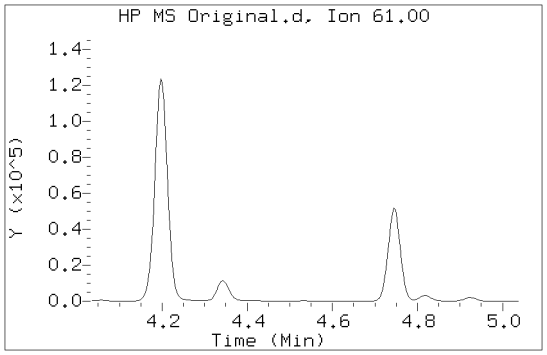
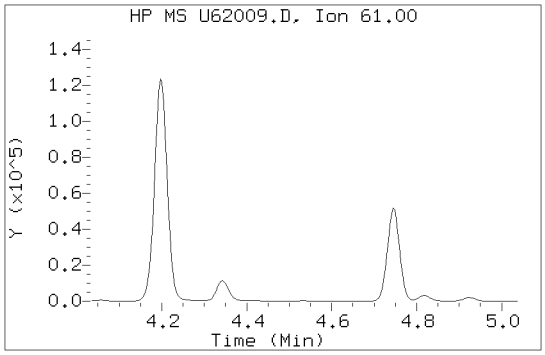
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
61
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



BEFORE

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AREA
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HEIGHT
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29-Jun-2024
12:15
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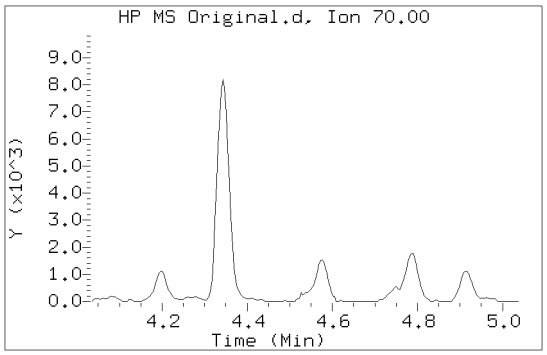
zaid



AFTER

MASS
70
AREA
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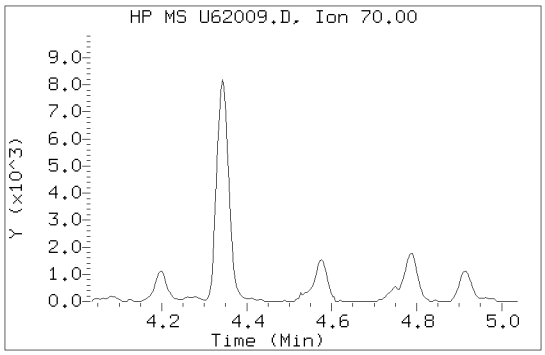
HEIGHT
0
29-Jun-2024
12:18
s
zaid



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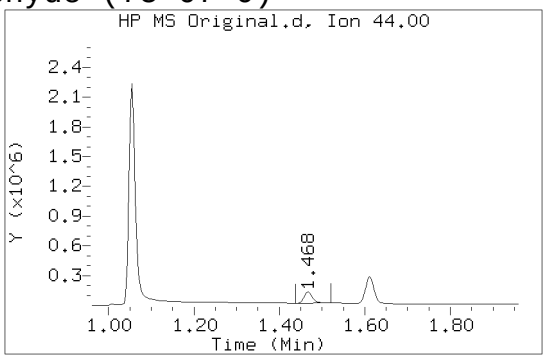
Inj Date : 20-JUN-2024 13:53
InstruID : VOA9.i
LabSampID : VSTD100

Acetaldehyde (75-07-0)

Reason Code:

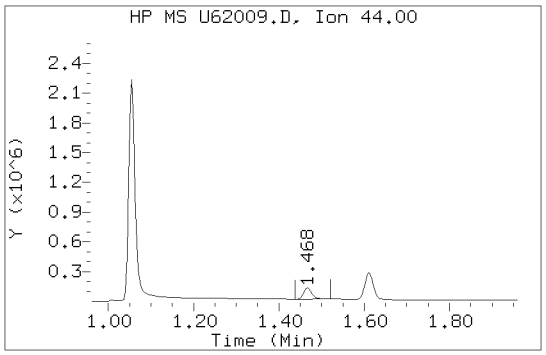
BEFORE

MASS
44
AREA
154867
HEIGHT
112500
29-Jun-2024
12:15
s
zaid



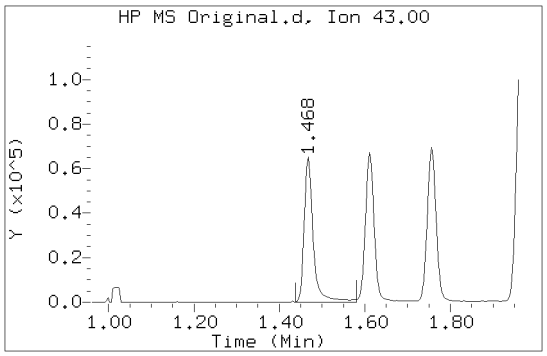
AFTER

MASS
44
AREA
154867
HEIGHT
112500
29-Jun-2024
12:18
s
zaid



BEFORE

MASS
43
AREA
97376
HEIGHT
65128
29-Jun-2024
12:15
s
zaid



AFTER

MASS
43
AREA
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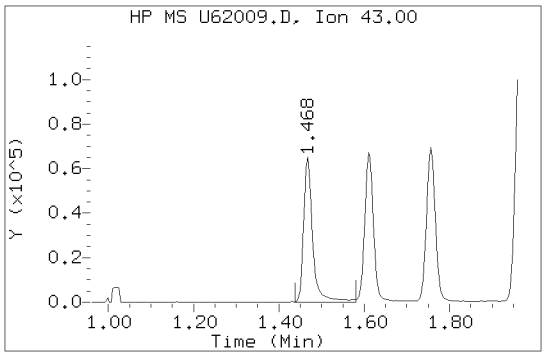
HEIGHT
65128
29-Jun-2024
12:18
s
zaid



BEFORE

MASS
42
AREA
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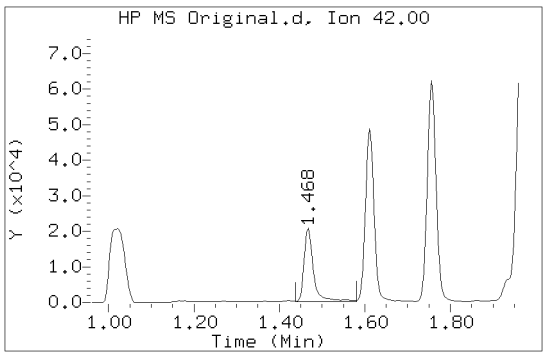
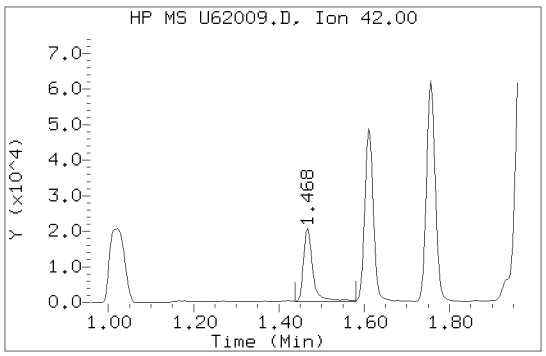
HEIGHT
20638
29-Jun-2024
12:15
s
zaid



AFTER

MASS
42
AREA
31537
HEIGHT
20638
29-Jun-2024
12:18
s
zaid

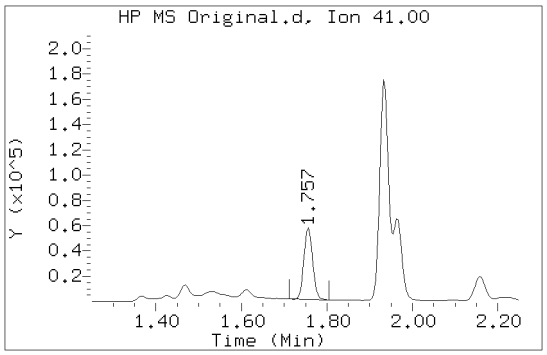


Isobutylene (115-11-7)

Reason Code:

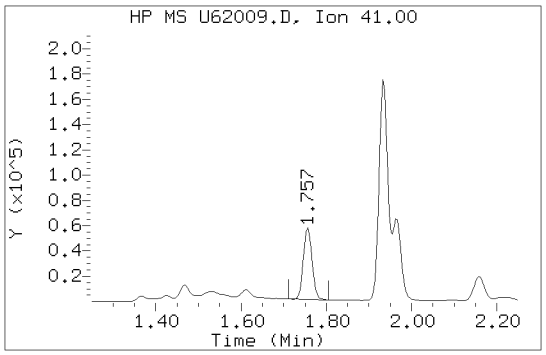
BEFORE

MASS
41
AREA
81097
HEIGHT
56878
29-Jun-2024
12:15
s
zaid



AFTER

MASS
41
AREA
81097
HEIGHT
56878
29-Jun-2024
12:18
s
zaid



Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62009.D
Inj Date : 20-JUN-2024 13:53
InstruID : VOA9.i
LabSampID : VSTD100

Isobutylene (115-11-7)

Reason Code:

BEFORE
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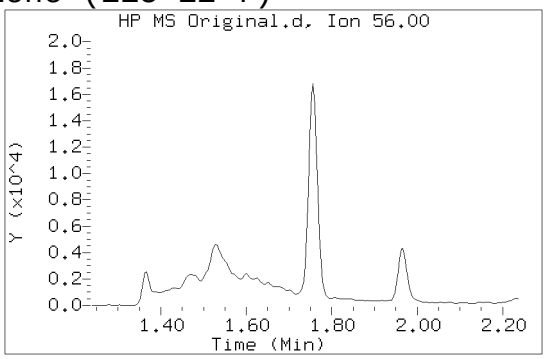
56
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER
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AREA
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HEIGHT
0
29-Jun-2024
12:18
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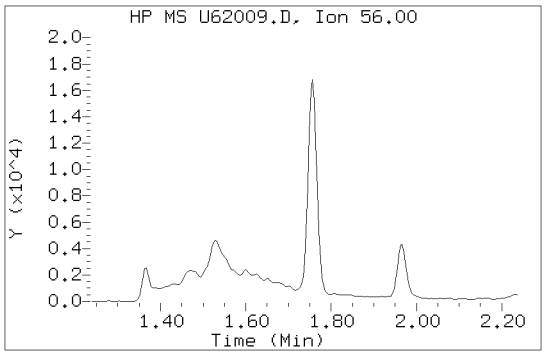
zaid



BEFORE
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AREA
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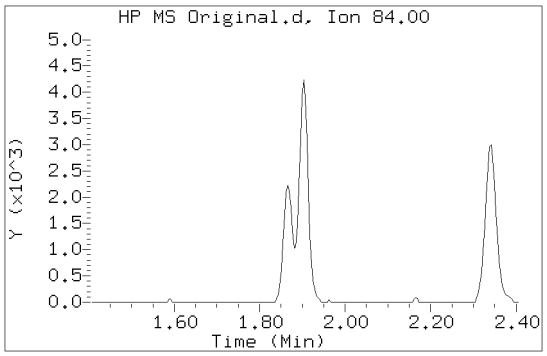
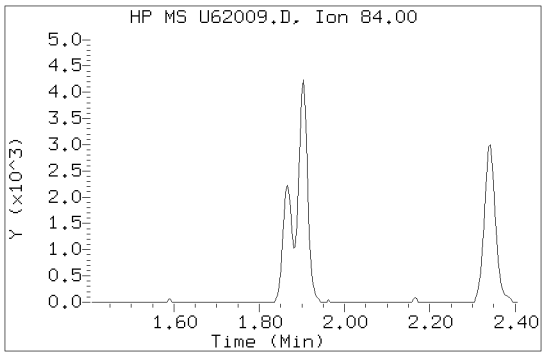
HEIGHT
0
29-Jun-2024
12:15
s
zaid



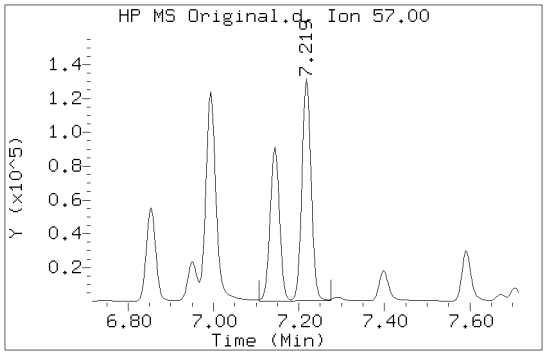
AFTER
MASS
84
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



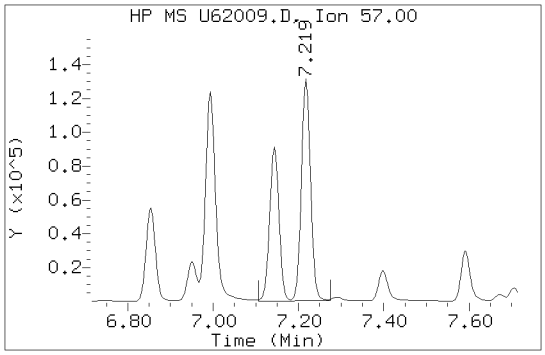
sec-Butyl Ether (6863-58-7)

Reason Code:

BEFORE
MASS
57
AREA
339960
HEIGHT
131250
29-Jun-2024
12:15
s
zaid



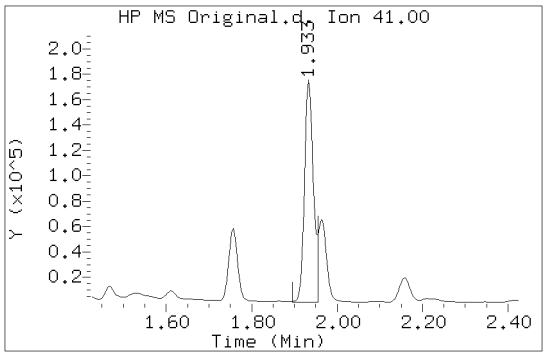
AFTER
MASS
57
AREA
339960
HEIGHT
131250
29-Jun-2024
12:18
s
zaid



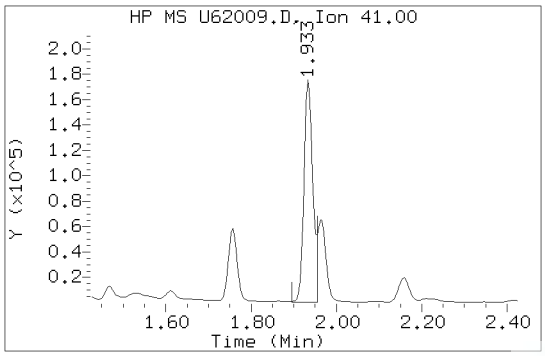
2-Chloropropene (557-98-2)

Reason Code:

BEFORE
MASS
41
AREA
261855
HEIGHT
174930
29-Jun-2024
12:15
s
zaid



AFTER
MASS
41
AREA
261855
HEIGHT
174930
29-Jun-2024
12:18
s
zaid



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62010.D Page 1
Report Date: 29-Jun-2024 12:15

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62010.D
Lab Smp Id: VSTD150 Client Smp ID: VSTD150
Inj Date : 20-JUN-2024 14:15
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\U240620.b\8260C.m
Meth Date : 29-Jun-2024 12:15 VOA9.i Quant Type: ISTD
Cal Date : 20-JUN-2024 13:53 Cal File: U62009.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: NAHSTW7014

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)	252939	50.0000	
2 Dichlorodifluoromethane	85	1.168	1.168	(0.243)	283969	150.000	157.20
3 Chloromethane	50	1.299	1.299	(0.270)	541083	150.000	151.57
4 Propionitrile	54	4.335	4.335	(0.900)	353474	1500.00	1473.16
5 Vinyl Chloride	62	1.378	1.378	(0.286)	335402	150.000	149.31
6 Bromomethane	94	1.610	1.610	(0.334)	130142	150.000	151.18
7 Chloroethane	64	1.696	1.696	(0.352)	208991	150.000	151.18
8 Trichlorofluoromethane	101	1.895	1.895	(0.394)	380170	150.000	156.92
9 Acrolein	56	2.266	2.266	(0.471)	24292	300.000	297.17
10 Acetone	43	2.409	2.409	(0.500)	182887	300.000	296.98
11 1,1-Dichloroethene	96	2.334	2.334	(0.485)	206596	150.000	140.01
12 Isobutyl Alcohol	43	5.284	5.284	(1.097)	730148	3000.00	2924.09
13 Acetonitrile	39	2.671	2.671	(0.555)	280872	1500.00	1473.43
14 Allyl Chloride	41	2.671	2.671	(0.555)	651842	150.000	146.67
15 Iodomethane	142	2.469	2.469	(0.513)	236209	300.000	299.54
16 Acrylonitrile	53	3.065	3.065	(0.636)	179501	300.000	291.87
17 Methylene Chloride	84	2.795	2.795	(0.580)	251424	150.000	153.74
18 Methyl tert-butyl ether	73	3.080	3.080	(0.640)	637081	150.000	145.64
19 Carbon Disulfide	76	2.521	2.521	(0.524)	1214971	300.000	298.78
20 trans-1,2-Dichloroethene	96	3.057	3.057	(0.635)	230456	150.000	150.34

21 Vinyl Acetate	43	4.339	4.339 (0.901)	263548	300.000	299.37
22 1,1-Dichloroethane	63	3.511	3.511 (0.729)	435781	150.000	150.45

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62010.D Page 2
Report Date: 29-Jun-2024 12:15

	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)	377420	150.000	150.94
	24 2-Butanone	43	4.260	4.260	(0.885)	264601	300.000	301.50
	25 Methacrylonitrile	41	4.493	4.493	(0.933)	168016	150.000	151.66(a)
	26 2,2-Dichloropropane	77	4.182	4.182	(0.868)	352166	150.000	150.02
	27 cis-1,2-Dichloroethene	96	4.197	4.197	(0.872)	274517	150.000	150.84
	28 Chloroform	83	4.572	4.572	(0.949)	445066	150.000	150.57
	29 Bromochloromethane	128	4.470	4.470	(0.928)	133328	150.000	131.66
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	242663	150.000	144.43
	31 1,1,1-Trichloroethane	97	4.744	4.744	(0.985)	372467	150.000	158.60
	32 1,1-Dichloropropene	75	4.920	4.920	(0.887)	342907	150.000	154.82(M)
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	348168	150.000	150.10
	34 Carbon Tetrachloride	117	4.913	4.913	(0.885)	311762	150.000	167.94(M)
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	298227	150.000	139.16
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	363077	50.0000	
	37 Benzene	78	5.138	5.138	(0.926)	1025192	150.000	137.19
	38 Trichloroethene	130	5.786	5.786	(1.043)	264607	150.000	145.91
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	331544	150.000	156.98
	40 Methyl Methacrylate	41	5.820	5.820	(1.209)	104765	150.000	158.27
	41 2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	35270	300.000	299.30
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	276191	150.000	139.54
	43 2-Nitropropane	43	6.506	6.506	(1.351)	67540	150.000	168.88(M)
	44 Dibromomethane	93	6.116	6.116	(1.102)	161146	150.000	139.48
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	557840	300.000	302.19
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	414270	150.000	167.89
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	334950	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	933941	150.000	143.65
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	352864	150.000	153.03
	50 Toluene	91	6.982	6.982	(0.853)	1093938	150.000	143.44
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	345365	150.000	149.80
	52 2-Hexanone	43	7.218	7.218	(0.882)	364859	300.000	295.93
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	199777	150.000	135.47
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	434843	150.000	140.30
	55 Dibromochloromethane	129	7.691	7.691	(0.940)	264746	150.000	172.07
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	213245	150.000	149.40
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	238860	150.000	146.73
	58 1-Chlorohexane	55	8.197	8.197	(1.477)	205637	150.000	148.53
	59 Chlorobenzene	112	8.208	8.208	(1.003)	691759	150.000	150.76
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	249048	150.000	152.00
	61 Ethylbenzene	106	8.305	8.305	(1.015)	362809	150.000	153.72
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	906456	300.000	321.68
	63 o-Xylene	106	8.748	8.748	(1.069)	445348	150.000	160.37
	64 Styrene	104	8.763	8.763	(1.071)	772219	150.000	166.33
	66 Bromoform	173	8.920	8.920	(1.090)	177855	150.000	152.53
	67 Isopropylbenzene	105	9.063	9.063	(1.107)	1133559	150.000	164.53
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	337416	150.000	148.50
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	350901	150.000	137.36
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	185008	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	349375	150.000	148.28
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	68780	150.000	146.95
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	1299196	150.000	162.39
	74 Bromobenzene	156	9.317	9.317	(0.916)	307931	150.000	141.66
	75 1,3,5-Trimethylbenzene	105	9.565	9.565	(0.940)	932820	150.000	149.51

76	2-Chlorotoluene	91	9.482	9.482 (0.932)	781832	150.000	144.40
77	4-Chlorotoluene	91	9.576	9.576 (0.941)	918518	150.000	149.48

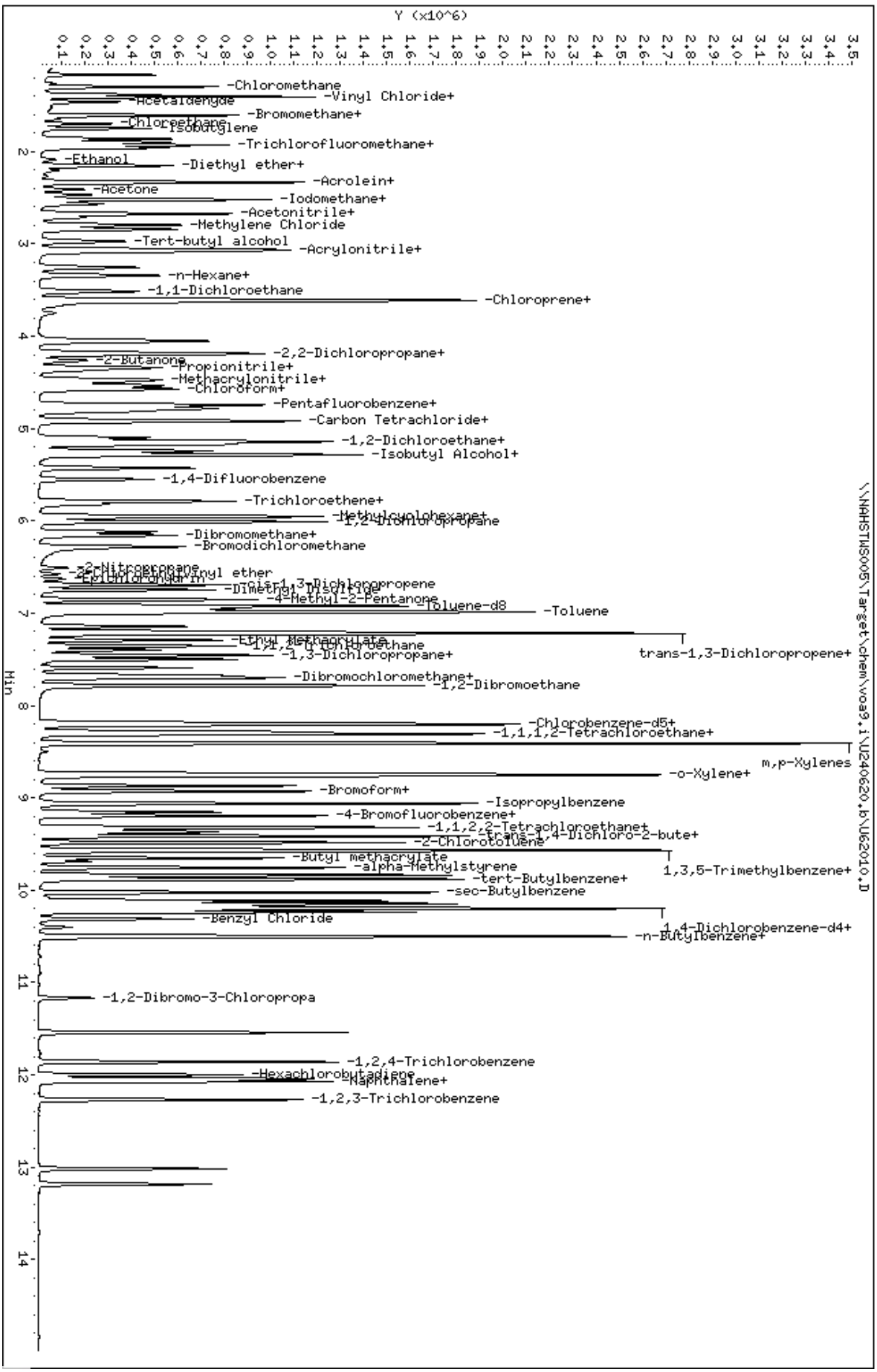
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.839	9.839	(0.967)	791680	150.000	162.36
79	1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	918786	150.000	156.06(M)
81	sec-Butylbenzene	105	10.022	10.022	(0.985)	1076201	150.000	165.73
82	p-Isopropyltoluene	119	10.146	10.146	(0.997)	955586	150.000	149.33
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	551926	150.000	137.99
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	567963	150.000	149.54
86	Benzyl Chloride	91	10.311	10.311	(1.260)	428103	150.000	149.48
87	n-Butylbenzene	91	10.495	10.495	(1.032)	845811	150.000	149.33
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	538275	150.000	135.17
89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	48564	150.000	151.47
90	1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	378110	150.000	156.94
91	Hexachlorobutadiene	225	12.001	12.001	(1.180)	163770	150.000	153.30
92	Naphthalene	128	12.069	12.069	(1.186)	862491	150.000	149.39
93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	339635	150.000	153.96
146	Methyl acetate	43	2.712	2.712	(0.563)	195904	150.000	154.89
138	Freon TF	101	2.334	2.334	(0.485)	202073	150.000	149.86
141	Cyclohexane	56	4.785	4.785	(0.994)	361451	150.000	150.10
142	Tetrahydrofuran	42	4.542	4.542	(0.943)	92392	300.000	308.42
147	Methylcyclohexane	55	5.944	5.944	(1.071)	635742	150.000	164.89(A)
135	1,4-Dioxane	88	6.165	6.165	(1.280)	57382	3000.00	2896.08
132	n-Butanol	56	5.820	5.820	(1.209)	152062	3000.00	2990.95
136	n-Hexane	57	3.342	3.342	(0.694)	255546	150.000	157.56
139	Diethyl ether	59	2.146	2.146	(0.446)	175770	150.000	145.18
148	Tert-butyl alcohol	59	2.971	2.971	(0.617)	431407	3000.00	3004.82
149	Isopropyl alcohol	45	2.566	2.566	(0.533)	317765	3000.00	2881.85
156	Diisopropyl ether	45	3.619	3.619	(0.752)	824738	150.000	135.18
162	Butyl acrylate	55	8.733	8.733	(1.067)	502445	150.000	162.96
164	Dicyclopentadiene	66	10.202	10.202	(1.003)	1174799	150.000	146.66
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	831618	150.000	157.16
167	Ethanol	45	2.086	2.086	(0.433)	62069	3000.00	2943.72
172	tert-Butyl formate	59	5.243	5.243	(1.089)	463523	300.000	252.25(A)
151	4-Methyl-2-pentanol	45	7.218	7.218	(1.301)	1567700	3000.00	3130.89
140	1,3-Butadiene	54	1.408	1.408	(0.292)	332150	150.000	152.92
182	Epichlorohydrin	57	6.630	6.630	(1.195)	52054	600.000	598.48
M 94	1,2-Dichloroethylene (total)	96				504973	300.000	(a)
145	alpha-Methylstyrene	118	9.756	9.756	(0.959)	361012	150.000	151.71
130	Ethyl Acetate	43	4.534	4.534	(0.942)	84064	150.000	144.91(M)
131	Methyl Acrylate	55	4.369	4.369	(0.907)	295559	150.000	140.99
189	n-Butyl acetate	43	7.706	7.706	(0.941)	413098	150.000	154.68
134	Cyclohexanone	55	9.152	9.152	(0.900)	292482	3000.00	2948.40
185	Isoprene	39	2.157	2.157	(0.448)	54150	150.000	147.44
188	Isopropyl acetate	43	5.284	5.284	(0.952)	711670	150.000	146.58
150	Allyl alcohol	57	3.342	3.342	(0.694)	255546	3000.00	3151.30
194	Acetaldehyde	44	1.460	1.460	(0.303)	235556	600.000	557.10(M)
200	Dimethyl Disulfide	94	6.746	6.746	(0.824)	313794	150.000	98.42
202	Isobutylene	41	1.749	1.749	(0.363)	128344	150.000	149.50(M)
133	Ethyl Acrylate	55	5.944	5.944	(1.234)	635742	150.000	159.78
163	Butyl methacrylate	41	9.647	9.647	(0.948)	269158	150.000	144.66
159	Propylene oxide	43	2.199	2.199	(0.457)	33334	300.000	288.46(A)
178	Ethylene oxide	44	1.603	1.603	(0.333)	617399	300.000	328.79
203	2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	363161	150.000	149.57
204	Tetrahydrothiophene	60	7.672	7.672	(0.937)	279468	150.000	146.82(A)

205 sec-Butyl Ether	57	7.218	7.218 (0.882)	541394	150.000	144.66(AM)
187 n-Amyl acetate	43	8.931	8.931 (1.091)	451445	150.000	152.35

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
206 2-Chloropropene	41	1.929	1.929	(0.401)	403173	150.000	155.26(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
Column diameter: 0.18

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LabSampID : VSTD150

1,1-Dichloropropene (563-58-6)

Reason Code:

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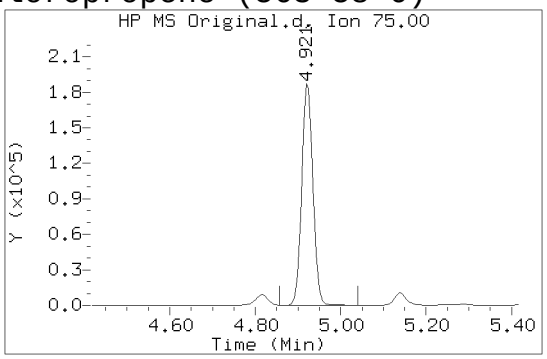

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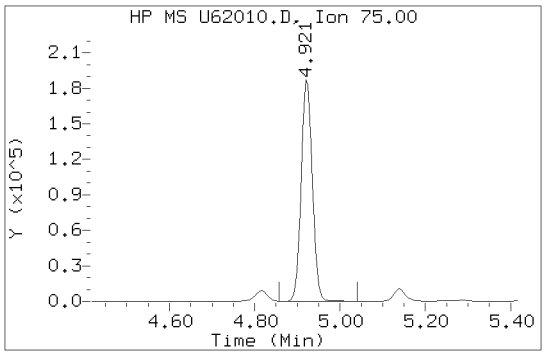

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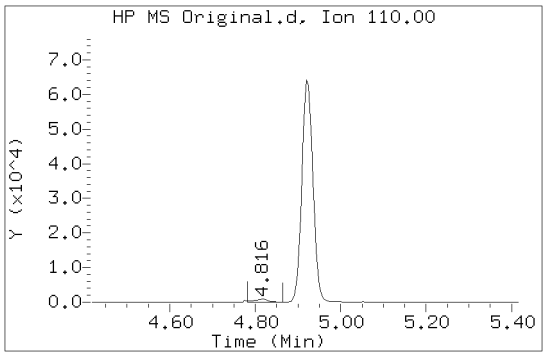

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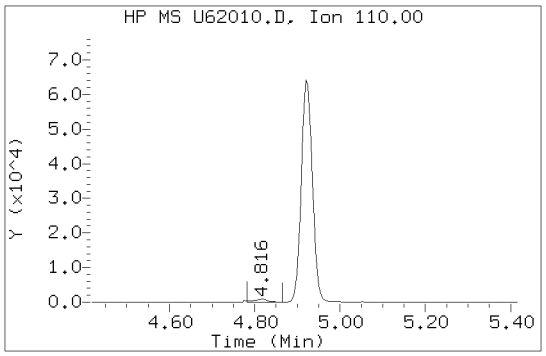

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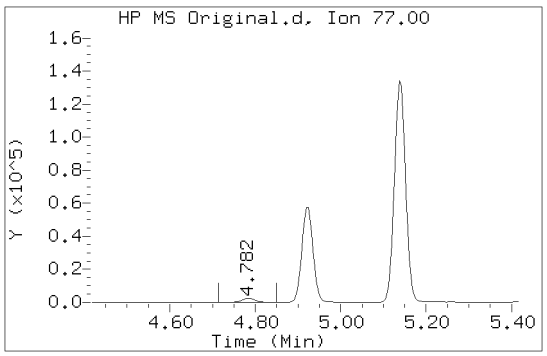

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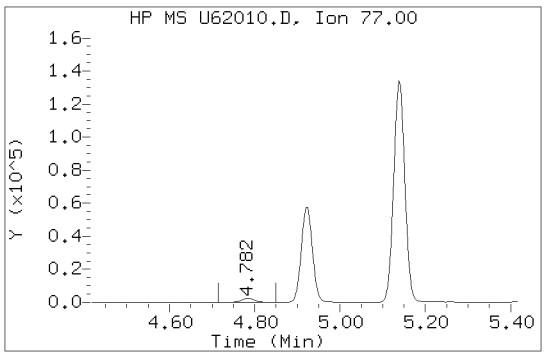

Carbon Tetrachloride (56-23-5)

Reason Code:

BEFORE

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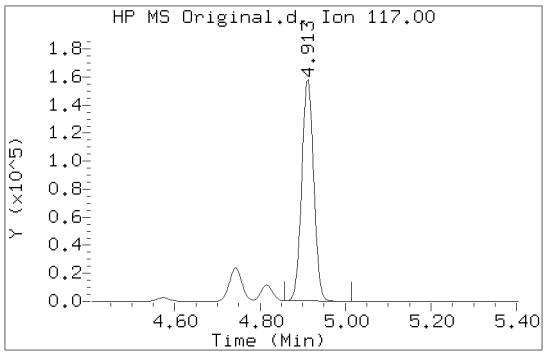

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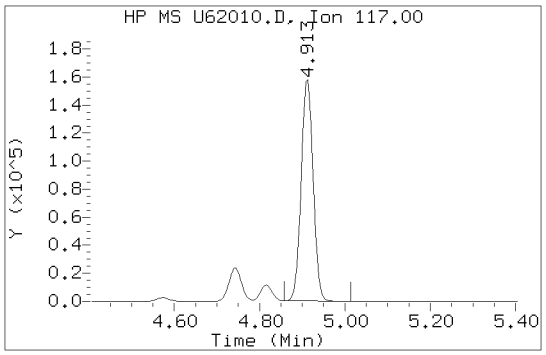

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LabSampID : VSTD150

Carbon Tetrachloride (56-23-5)

Reason Code:

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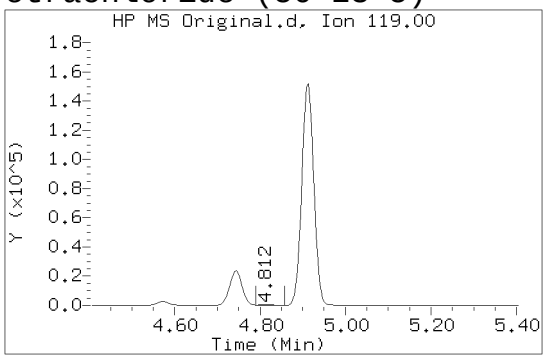

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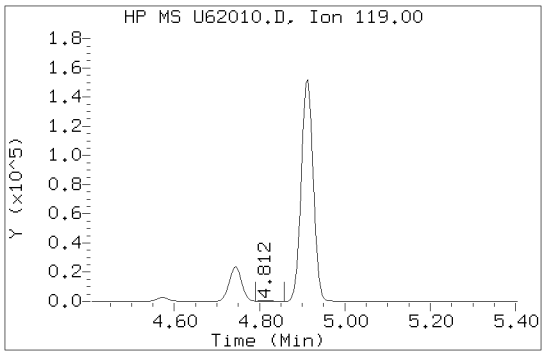

1,2,4-Trimethylbenzene (95-63-6)

Reason Code:

BEFORE

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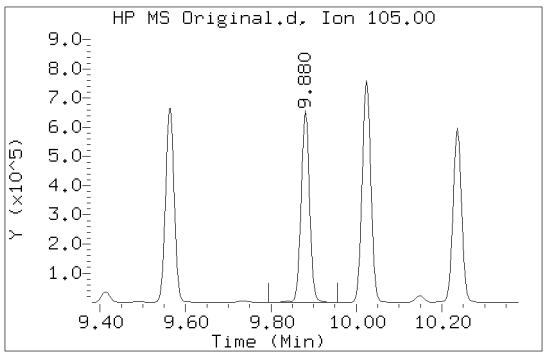

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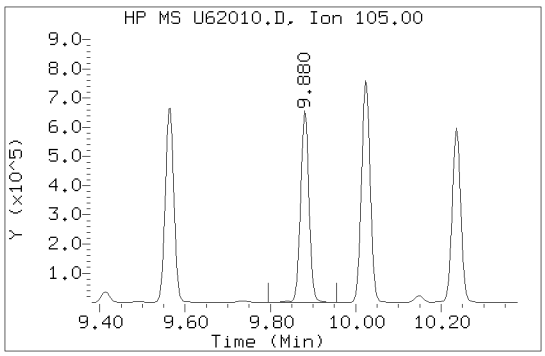

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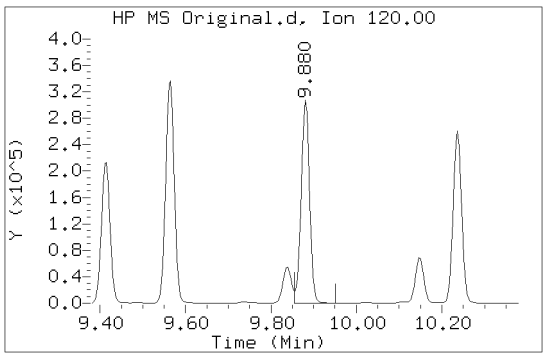

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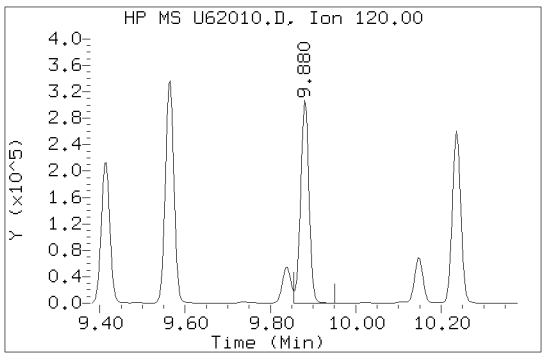

2-Nitropropane (79-46-9)

Reason Code:

BEFORE

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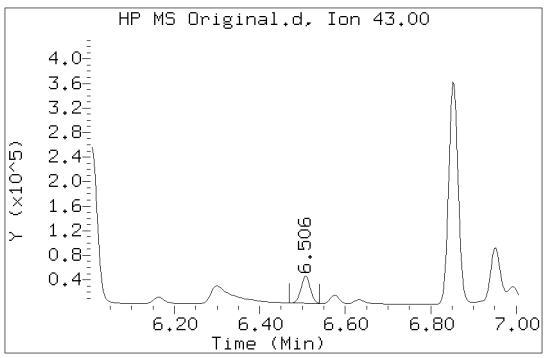

AFTER

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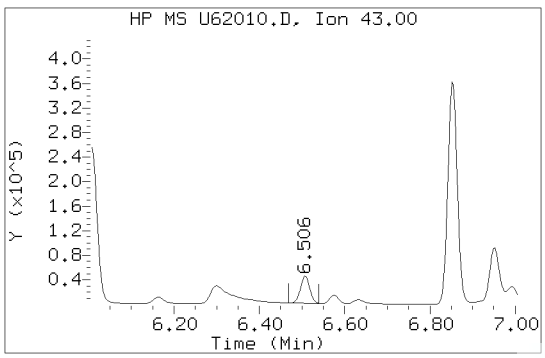

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LabSampID : VSTD150

2-Nitropropane (79-46-9)

Reason Code:

BEFORE

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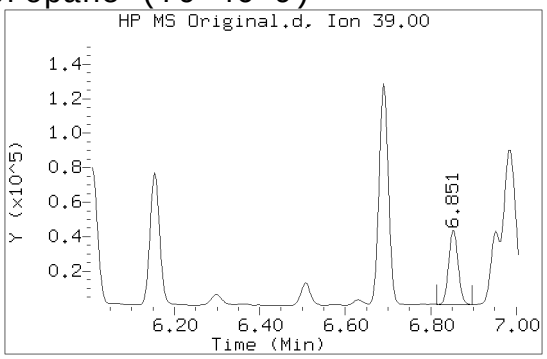

AFTER

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29-Jun-2024
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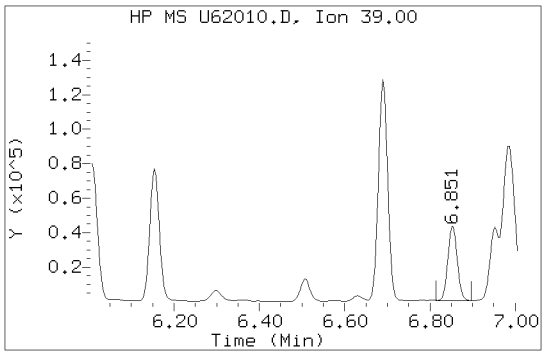

Ethyl Acetate (141-78-6)

Reason Code:

BEFORE

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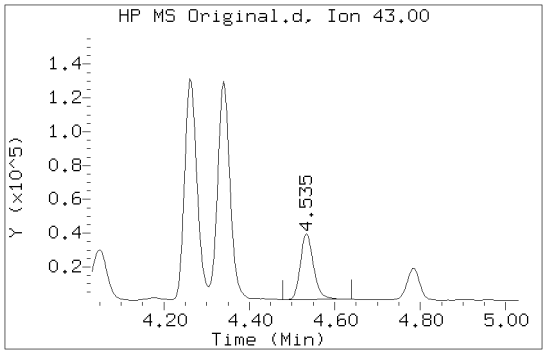

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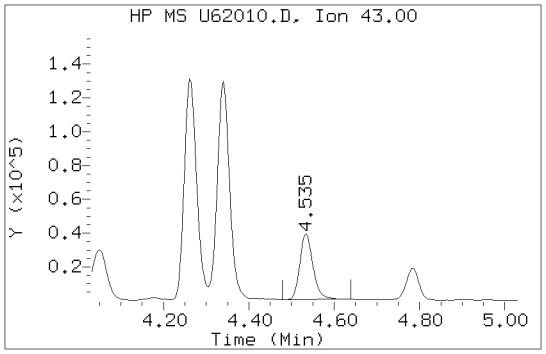

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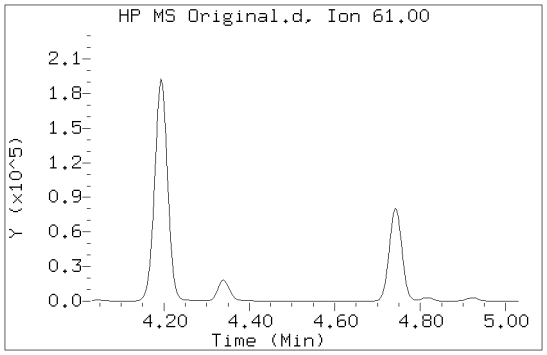

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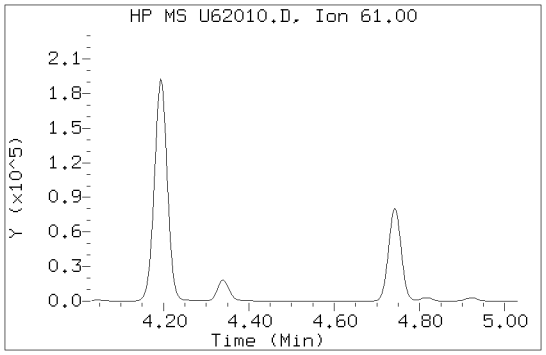

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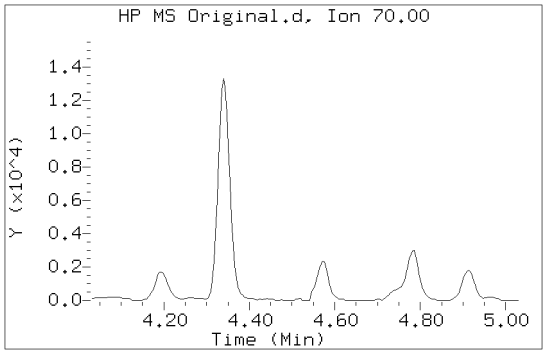

AFTER

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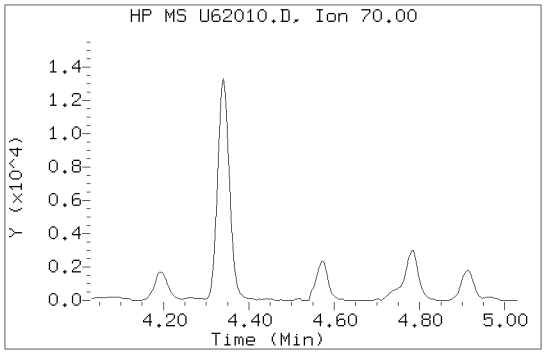

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Inj Date : 20-JUN-2024 14:15
InstruID : VOA9.i
LabSampID : VSTD150

Acetaldehyde (75-07-0)

Reason Code:

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29-Jun-2024
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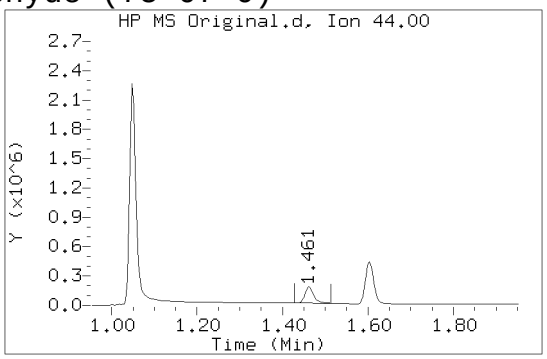

AFTER

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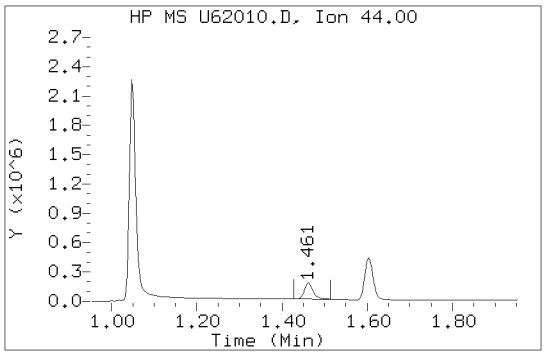

BEFORE

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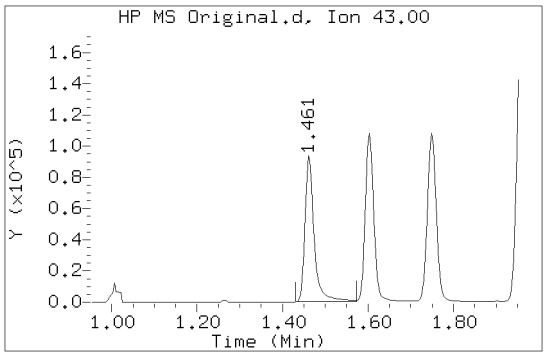

AFTER

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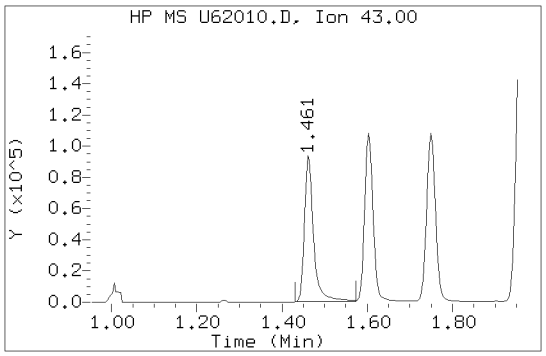

BEFORE

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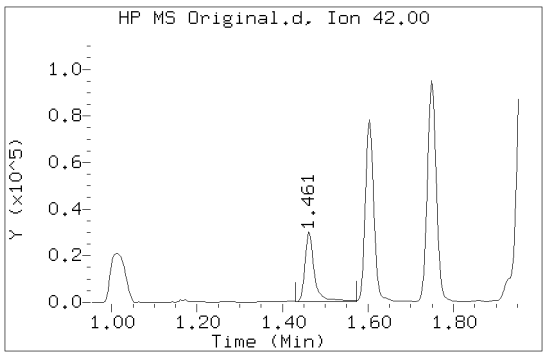

AFTER

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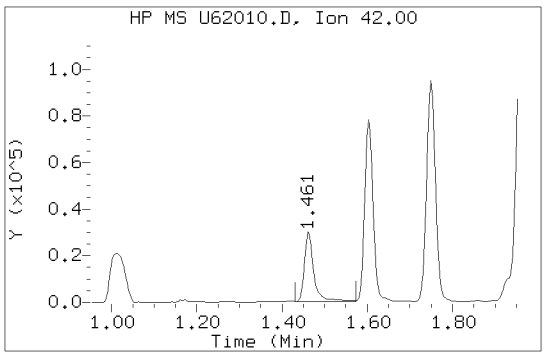

Isobutylene (115-11-7)

Reason Code:

BEFORE

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88820
29-Jun-2024
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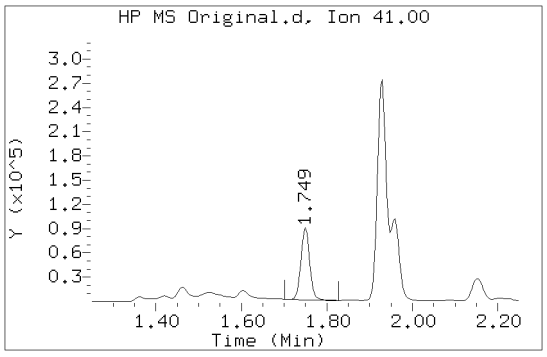

AFTER

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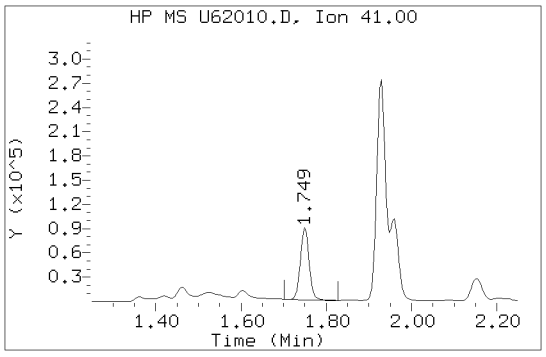

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Inj Date : 20-JUN-2024 14:15
InstruID : VOA9.i
LabSampID : VSTD150

Isobutylene (115-11-7)

Reason Code:

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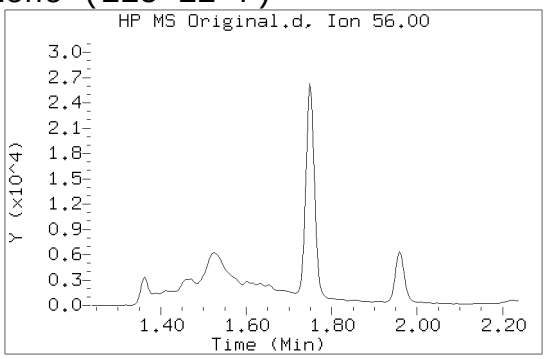

AFTER

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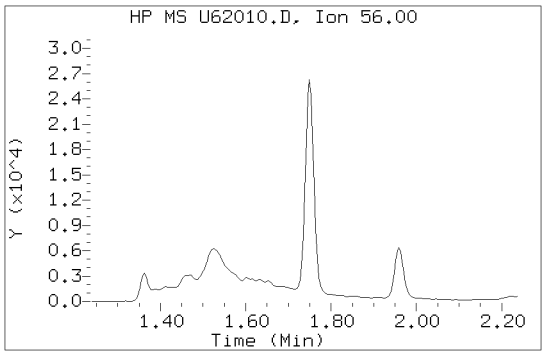

BEFORE

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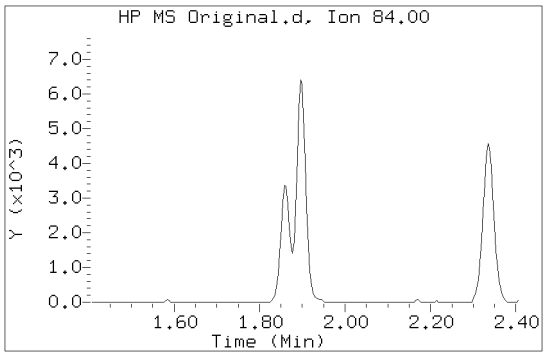

AFTER

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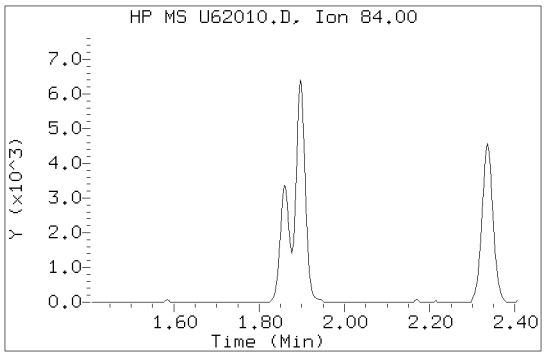

sec-Butyl Ether (6863-58-7)

Reason Code:

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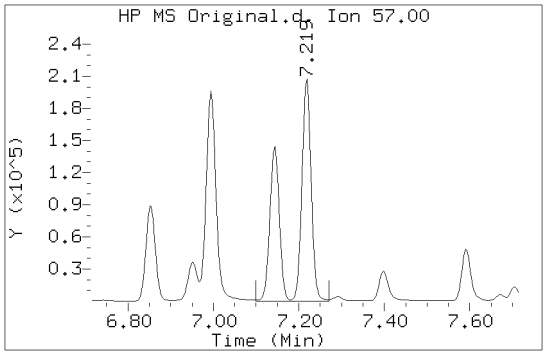

AFTER

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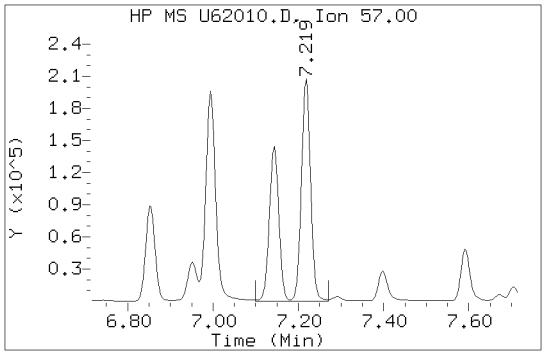

2-Chloropropene (557-98-2)

Reason Code:

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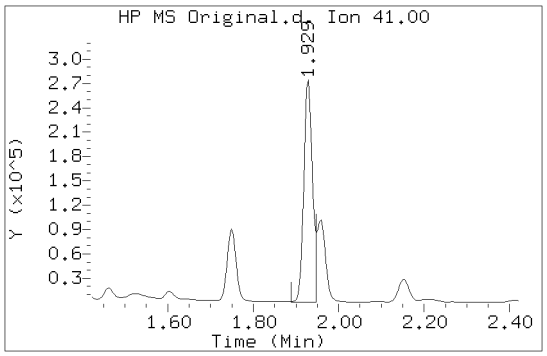

AFTER

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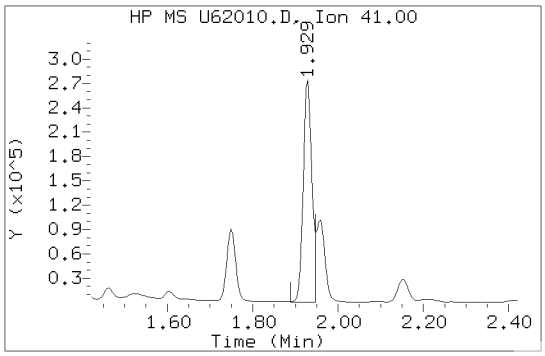


Data File: \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62011.D Page 1
Report Date: 29-Jun-2024 12:29

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62011.D
Lab Smp Id: VSTD200 Client Smp ID: VSTD200
Inj Date : 20-JUN-2024 14:36
Operator : TS Inst ID: VOA9.i
Smp Info : VSTD200;VSTD200;1;10
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240620.b\8260C.m
Meth Date : 29-Jun-2024 12:29 VOA9.i Quant Type: ISTD
Cal Date : 20-JUN-2024 14:36 Cal File: U62011.D
Als bottle: 11 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7014

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)	265522	50.0000	
2 Dichlorodifluoromethane	85	1.160	1.160	(0.241)	397011	50.0000	209.36(A)
3 Chloromethane	50	1.291	1.291	(0.268)	722213	50.0000	199.45
4 Propionitrile	54	4.335	4.335	(0.901)	516743	500.000	2011.03(A)
5 Vinyl Chloride	62	1.374	1.374	(0.286)	475593	50.0000	201.64(A)
6 Bromomethane	94	1.602	1.602	(0.333)	186065	50.0000	199.96
7 Chloroethane	64	1.692	1.692	(0.352)	287756	50.0000	199.74
8 Trichlorofluoromethane	101	1.891	1.891	(0.393)	520606	50.0000	204.70(A)
9 Acrolein	56	2.258	2.258	(0.469)	36445	100.000	401.53(A)
10 Acetone	43	2.404	2.404	(0.500)	250030	100.000	389.13
11 1,1-Dichloroethene	96	2.326	2.326	(0.483)	289014	50.0000	186.58
12 Isobutyl Alcohol	43	5.283	5.283	(1.098)	1051743	1000.00	4012.41(A)
13 Acetonitrile	39	2.667	2.667	(0.554)	398444	500.000	1994.82
14 Allyl Chloride	41	2.667	2.667	(0.554)	929291	50.0000	201.39(A)
15 Iodomethane	142	2.461	2.461	(0.512)	377703	100.000	342.96
16 Acrylonitrile	53	3.060	3.060	(0.636)	262510	100.000	406.81(A)
17 Methylene Chloride	84	2.787	2.787	(0.579)	332519	50.0000	198.56
18 Methyl tert-butyl ether	73	3.075	3.075	(0.639)	938308	50.0000	204.17(A)
19 Carbon Disulfide	76	2.513	2.513	(0.522)	1701816	100.000	398.67
20 trans-1,2-Dichloroethene	96	3.053	3.053	(0.635)	321804	50.0000	200.10(A)

21 Vinyl Acetate	43	4.335	4.335 (0.901)	370669	100.000	401.20(A)
22 1,1-Dichloroethane	63	3.507	3.507 (0.729)	606734	50.0000	199.81

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62011.D Page 2
Report Date: 29-Jun-2024 12:29

	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)	525056	50.0000	200.11(A)
	24 2-Butanone	43	4.256	4.256	(0.885)	368971	100.000	400.45(A)
	25 Methacrylonitrile	41	4.489	4.489	(0.933)	230621	50.0000	198.97(a)
	26 2,2-Dichloropropane	77	4.178	4.178	(0.868)	497369	50.0000	201.64(A)
	27 cis-1,2-Dichloroethene	96	4.189	4.189	(0.871)	381674	50.0000	199.86
	28 Chloroform	83	4.567	4.567	(0.949)	617716	50.0000	199.37
	29 Bromochloromethane	128	4.466	4.466	(0.928)	186385	50.0000	175.33
$	30 Dibromofluoromethane	113	4.744	4.744	(0.986)	342479	50.0000	194.17
	31 1,1,1-Trichloroethane	97	4.740	4.740	(0.985)	525362	50.0000	213.11(A)
	32 1,1-Dichloropropene	75	4.920	4.920	(0.887)	481801	50.0000	206.69(AM)
	33 1,2-Dichloroethane	62	5.171	5.171	(0.932)	485948	50.0000	199.43
	34 Carbon Tetrachloride	117	4.909	4.909	(0.885)	439845	50.0000	225.12(AM)
$	35 1,2-Dichloroethane-d4	65	5.092	5.092	(1.058)	412883	50.0000	183.54
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	382123	50.0000	
	37 Benzene	78	5.137	5.137	(0.926)	1432681	50.0000	182.17
	38 Trichloroethene	130	5.786	5.786	(1.043)	372108	50.0000	194.97
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	470315	50.0000	211.59(A)
	40 Methyl Methacrylate	41	5.823	5.823	(1.210)	155212	50.0000	223.38(A)
	41 2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	71631	100.000	(a)
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	386076	50.0000	185.34
	43 2-Nitropropane	43	6.506	6.506	(1.352)	104236	50.0000	248.29(AM)
	44 Dibromomethane	93	6.116	6.116	(1.102)	226978	50.0000	186.68
	45 4-Methyl-2-Pentanone	43	6.854	6.854	(0.837)	798331	100.000	409.56(A)
	46 cis-1,3-Dichloropropene	75	6.689	6.689	(1.205)	591195	50.0000	227.65(A)
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	353689	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	1300358	50.0000	189.41
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	537937	50.0000	221.66
	50 Toluene	91	6.982	6.982	(0.853)	1516812	50.0000	188.35
	51 trans-1,3-Dichloropropene	75	7.195	7.195	(1.297)	495274	50.0000	203.32(A)
	52 2-Hexanone	43	7.218	7.218	(0.882)	529191	100.000	406.81(A)
	53 1,1,2-Trichloroethane	83	7.356	7.356	(0.899)	277712	50.0000	178.34
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	605942	50.0000	185.15
	55 Dibromochloromethane	129	7.694	7.694	(0.940)	375582	50.0000	231.17(A)
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	300156	50.0000	199.15
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	338729	50.0000	197.06
	58 1-Chlorohexane	55	8.196	8.196	(1.477)	297557	50.0000	204.49(A)
	59 Chlorobenzene	112	8.211	8.211	(1.003)	967685	50.0000	199.97
	60 1,1,1,2-Tetrachloroethane	131	8.282	8.282	(1.012)	353341	50.0000	204.23(A)
	61 Ethylbenzene	106	8.309	8.309	(1.015)	508284	50.0000	203.94(A)
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	1271908	100.000	427.46(A)
	63 o-Xylene	106	8.747	8.747	(1.069)	623283	50.0000	212.56(A)
	64 Styrene	104	8.762	8.762	(1.071)	1084513	50.0000	221.22(A)
	66 Bromoform	173	8.920	8.920	(1.090)	259431	50.0000	199.01
	67 Isopropylbenzene	105	9.062	9.062	(1.107)	1574813	50.0000	216.47(A)
	68 1,1,2,2-Tetrachloroethane	83	9.328	9.328	(0.917)	472868	50.0000	201.78(A)
$	69 4-Bromofluorobenzene	95	9.193	9.193	(1.123)	489967	50.0000	181.64
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	190932	50.0000	
	71 1,2,3-Trichloropropane	75	9.366	9.366	(0.921)	495644	50.0000	203.53(AM)
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	99224	50.0000	200.76(A)
	73 n-Propylbenzene	91	9.415	9.415	(0.926)	1854754	50.0000	224.64(A)
	74 Bromobenzene	156	9.317	9.317	(0.916)	432960	50.0000	193.00
	75 1,3,5-Trimethylbenzene	105	9.564	9.564	(0.940)	1306821	50.0000	202.35(A)

76	2-Chlorotoluene	91	9.482	9.482 (0.932)	1096591	50.0000	196.26
77	4-Chlorotoluene	91	9.576	9.576 (0.941)	1284912	50.0000	202.62(A)

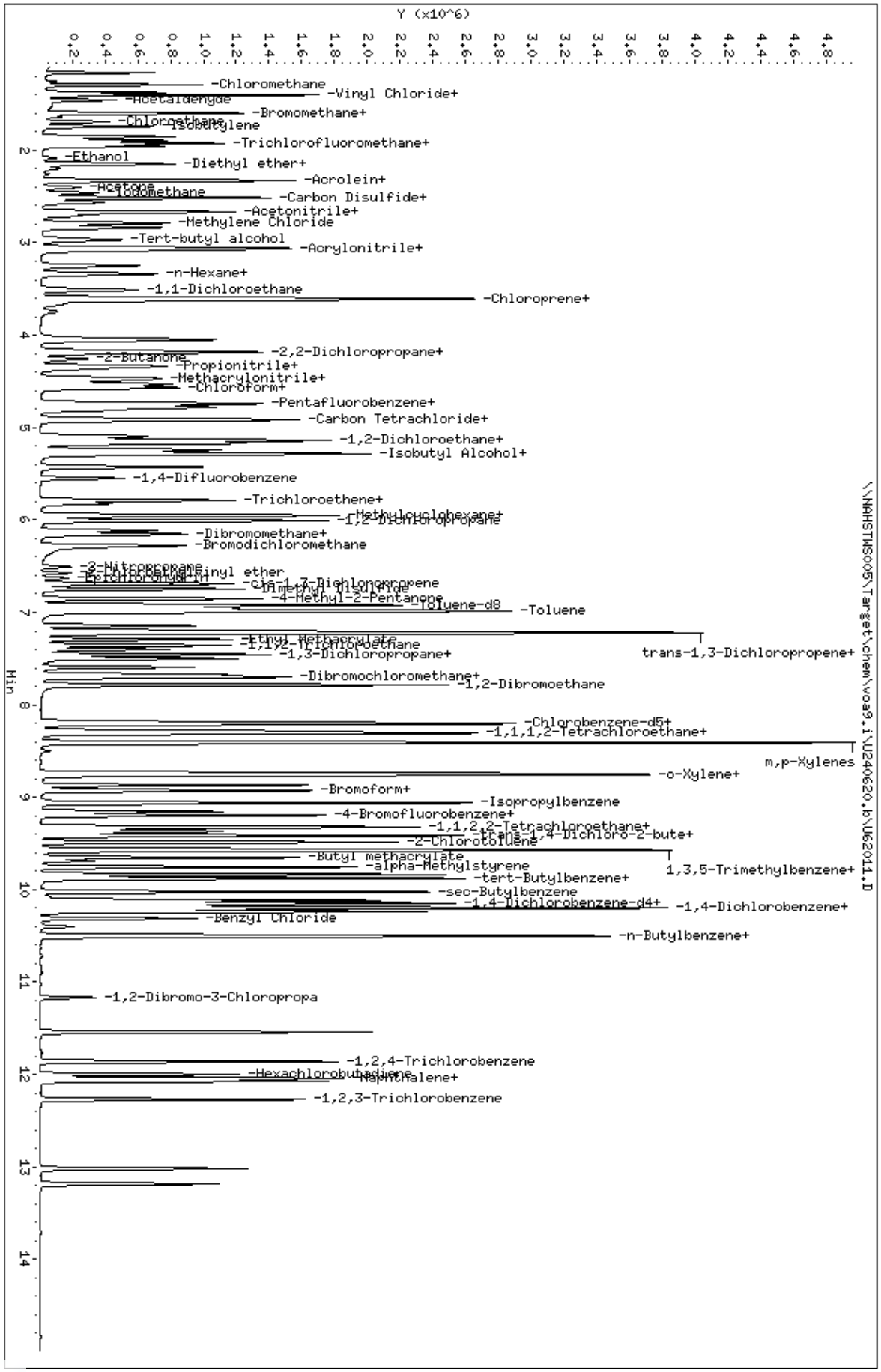
Data File: \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62011.D Page 3
Report Date: 29-Jun-2024 12:29

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.838	9.838	(0.967)	1107572	50.0000	220.10(A)
79	1,2,4-Trimethylbenzene	105	9.879	9.879	(0.971)	1293282	50.0000	212.85(AM)
81	sec-Butylbenzene	105	10.026	10.026	(0.986)	1501256	50.0000	224.01(A)
82	p-Isopropyltoluene	119	10.149	10.149	(0.998)	1343308	50.0000	202.81(A)
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	765965	50.0000	185.57
84	1,4-Dichlorobenzene	146	10.190	10.190	(1.002)	786101	50.0000	200.77(A)
86	Benzyl Chloride	91	10.310	10.310	(1.260)	611338	50.0000	204.06(A)
87	n-Butylbenzene	91	10.494	10.494	(1.032)	1186519	50.0000	202.49(A)
88	1,2-Dichlorobenzene	146	10.505	10.505	(1.033)	746049	50.0000	181.53
89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	71040	50.0000	199.52
90	1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	530312	50.0000	213.28(A)
91	Hexachlorobutadiene	225	12.001	12.001	(1.180)	229632	50.0000	208.28(A)
92	Naphthalene	128	12.069	12.069	(1.186)	1208773	50.0000	202.17(A)
93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	477354	50.0000	209.67(A)
146	Methyl acetate	43	2.708	2.708	(0.563)	255797	50.0000	193.30
138	Freon TF	101	2.329	2.329	(0.484)	282375	50.0000	199.67
141	Cyclohexane	56	4.781	4.781	(0.994)	508774	50.0000	201.59(A)
142	Tetrahydrofuran	42	4.537	4.537	(0.943)	135317	100.000	430.31(A)
147	Methylcyclohexane	55	5.943	5.943	(1.071)	950834	50.0000	234.33(A)
135	1,4-Dioxane	88	6.164	6.164	(1.281)	87547	1000.00	4038.10(A)
132	n-Butanol	56	5.823	5.823	(1.210)	228205	1000.00	4002.40(A)
136	n-Hexane	57	3.338	3.338	(0.694)	360842	50.0000	211.94(A)
139	Diethyl ether	59	2.138	2.138	(0.445)	254790	50.0000	200.85(A)
148	Tert-butyl alcohol	59	2.967	2.967	(0.617)	602022	1000.00	3998.62
149	Isopropyl alcohol	45	2.566	2.566	(0.533)	469393	1000.00	4061.48(A)
156	Diisopropyl ether	45	3.615	3.615	(0.751)	1191529	50.0000	186.05
162	Butyl acrylate	55	8.732	8.732	(1.067)	766568	50.0000	235.45(A)
164	Dicyclopentadiene	66	10.202	10.202	(1.003)	1750976	50.0000	211.80(A)
166	1,2,3-Trimethylbenzene	105	10.235	10.235	(1.006)	1218639	50.0000	223.15(A)
167	Ethanol	45	2.082	2.082	(0.433)	87256	1000.00	3950.13
172	tert-Butyl formate	59	5.242	5.242	(1.090)	696379	100.000	259.47(A)
151	4-Methyl-2-pentanol	45	7.218	7.218	(1.301)	2343873	1000.00	4447.69(A)
140	1,3-Butadiene	54	1.400	1.400	(0.291)	468459	50.0000	205.46(A)
182	Epichlorohydrin	57	6.629	6.629	(1.195)	84999	200.000	691.58
M 94	1,2-Dichloroethylene (total)	96				703478	100.000	(a)
145	alpha-Methylstyrene	118	9.756	9.756	(0.959)	520152	50.0000	199.29
130	Ethyl Acetate	43	4.534	4.534	(0.942)	122455	50.0000	201.91(A)
131	Methyl Acrylate	55	4.365	4.365	(0.907)	436403	50.0000	198.32
189	n-Butyl acetate	43	7.705	7.705	(0.941)	601505	50.0000	213.30(A)
134	Cyclohexanone	55	9.152	9.152	(0.900)	422606	1000.00	4018.17(A)
185	Isoprene	39	2.150	2.150	(0.447)	72752	50.0000	188.71
188	Isopropyl acetate	43	5.283	5.283	(0.952)	1068675	50.0000	209.14(A)
150	Allyl alcohol	57	3.338	3.338	(0.694)	360842	1000.00	4238.91(A)
194	Acetaldehyde	44	1.456	1.456	(0.303)	348283	200.000	784.67(M)
202	Isobutylene	41	1.741	1.741	(0.362)	182427	50.0000	201.96(AM)
133	Ethyl Acrylate	55	5.943	5.943	(1.235)	950834	50.0000	227.65(A)
163	Butyl methacrylate	41	9.651	9.651	(0.949)	390507	50.0000	203.62(A)
159	Propylene oxide	43	2.195	2.195	(0.456)	49793	100.000	410.48(A)
178	Ethylene oxide	44	1.595	1.595	(0.332)	810765	100.000	411.30(A)
203	2-Ethylhexyl Acrylate	55	12.042	12.042	(1.184)	565939	50.0000	195.66
204	Tetrahydrothiophene	60	7.671	7.671	(0.937)	411483	50.0000	204.72(A)
205	sec-Butyl Ether	57	7.218	7.218	(0.882)	791396	50.0000	200.26(AM)

187 n-Amyl acetate	43	8.931	8.931 (1.091)	642970	50.0000	205.48(A)
206 2-Chloropropene	41	1.921	1.921 (0.399)	569361	50.0000	208.87(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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Min
1 2 3 4 5 6 7 8 9 10 11 12 13 14
-Chloromethane
-Vinyl Chloride+
-Acetaldehyde
-Bromomethane+
-Chloroethane
-Isobutylene
-Trichlorofluoromethane+
-Ethanol
-Diethyl ether+
-Acrolein+
-Acetone
-Iodomethane
-Carbon Disulfide+
-Acetonitrile+
-Methylene Chloride
-Tert-butyl alcohol
-Acrylonitrile+
-n-Hexane+
-1,1-Dichloroethane
-Chloroprene+
-2,2-Dichloropropane+
-2-Butanone
-Propionitrile+
-Methacrylonitrile+
-Chloroform+
-Pentafluorobenzene+
-Carbon Tetrachloride+
-1,2-Dichloroethane+
-Isobutyl Alcohol+
-1,4-Difluorobenzene
-Trichloroethene+
-Methylcyclohexane+
-1,2-Dichloropropane
-Dibromomethane+
-Bromodichloromethane
-3-Nitropropane
-Trichloroallyl
-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+
-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+
-1,4-Dichlorobenzene+
-Benzyl Chloride
-n-Butylbenzene+
-1,2-Dibromo-3-Chloropropa
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene+
-1,2,3-Trichlorobenzene
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Column phase: DB624
Instrument: VOA9,i
Operator: TS
Column diameter: 0.18
Page 1

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LabSampID : VSTD200

1,1-Dichloropropene (563-58-6)

Reason Code:

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29-Jun-2024
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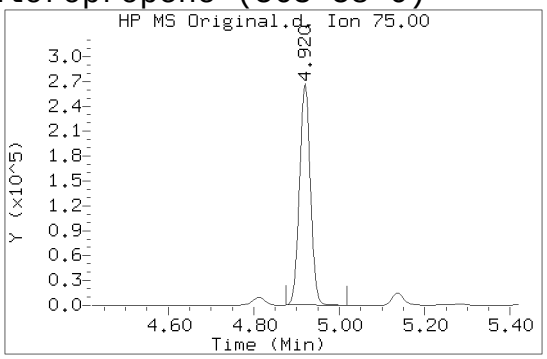

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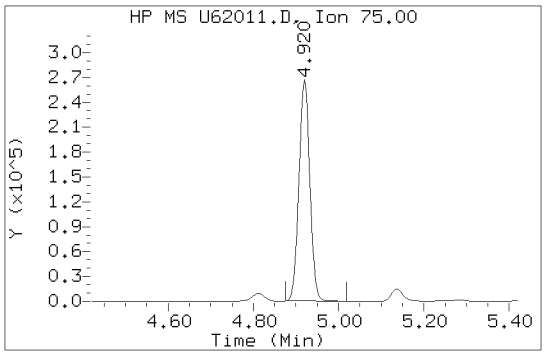

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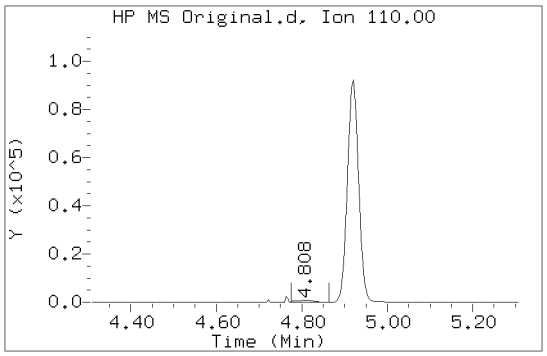

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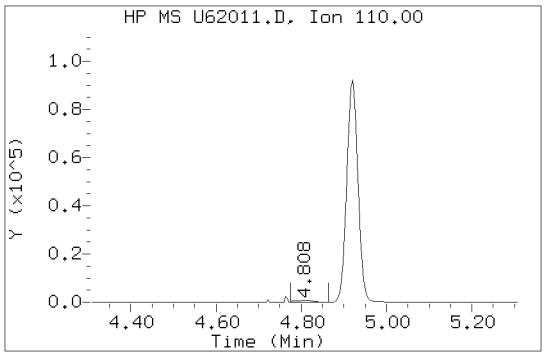

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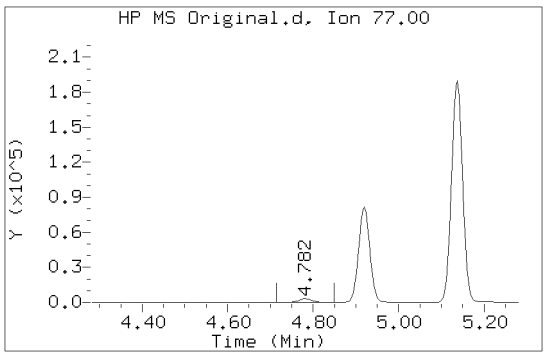

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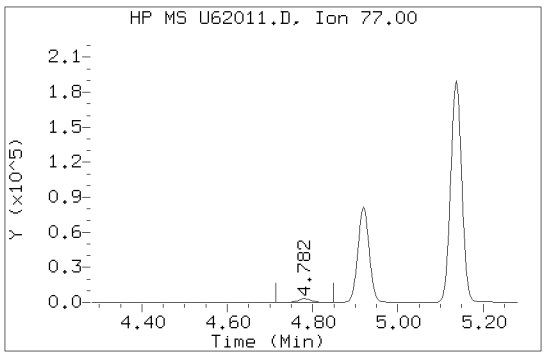

Carbon Tetrachloride (56-23-5)

Reason Code:

BEFORE

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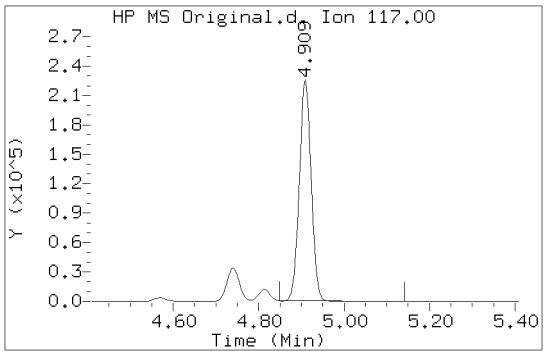

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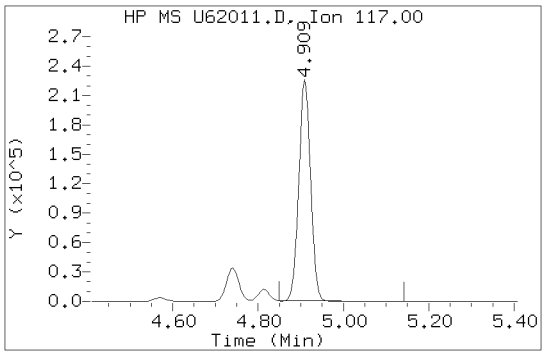

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InstruID : VOA9.i
LabSampID : VSTD200

Carbon Tetrachloride (56-23-5)

Reason Code:

BEFORE

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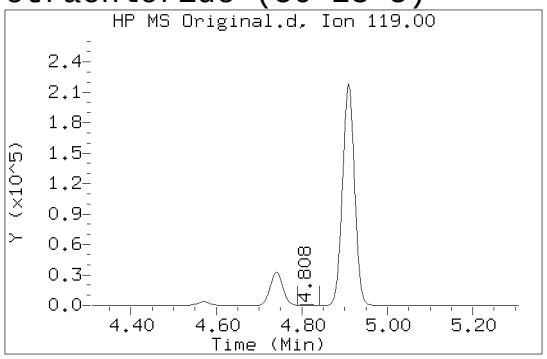

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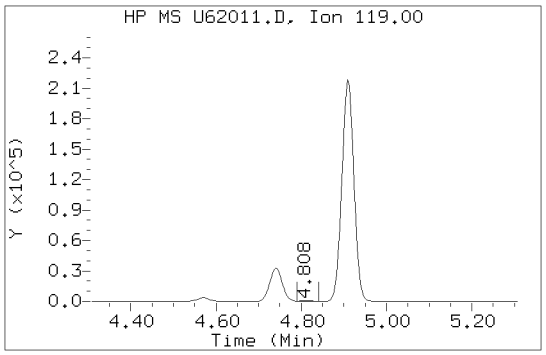

1,2,3-Trichloropropane (96-18-4)

Reason Code:

BEFORE

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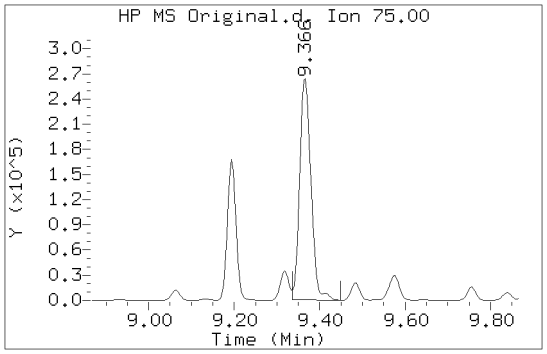

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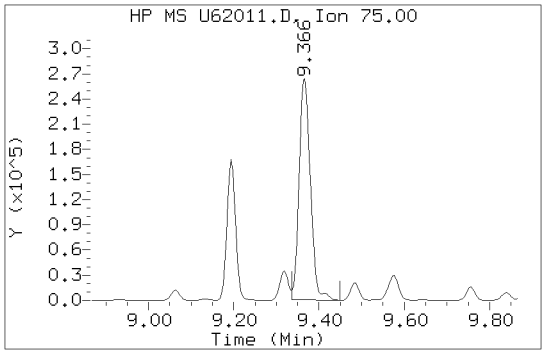

BEFORE

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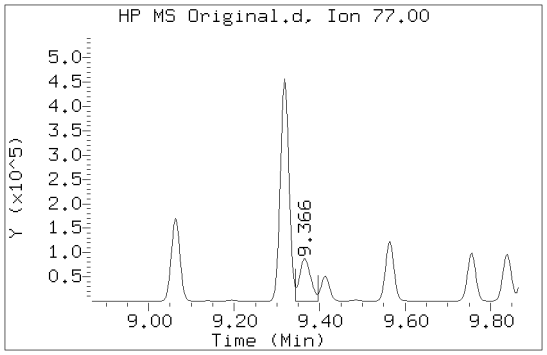

AFTER

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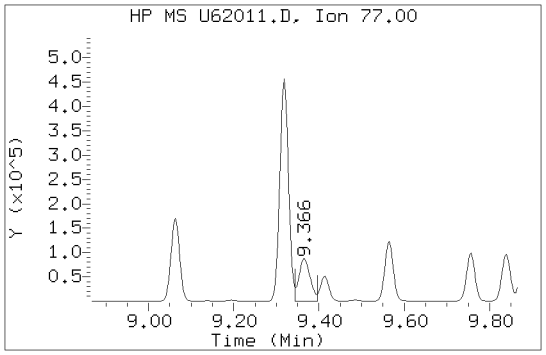

1,2,4-Trimethylbenzene (95-63-6)

Reason Code:

BEFORE

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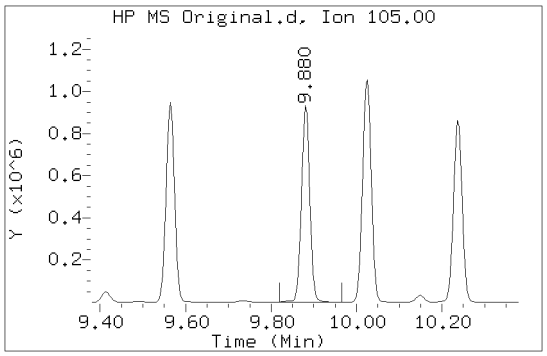

AFTER

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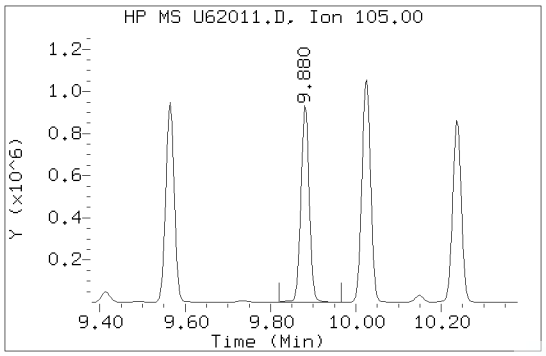

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Inj Date : 20-JUN-2024 14:36
InstruID : VOA9.i
LabSampID : VSTD200

1,2,4-Trimethylbenzene (95-63-6)

Reason Code:

BEFORE

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435520
29-Jun-2024
12:18
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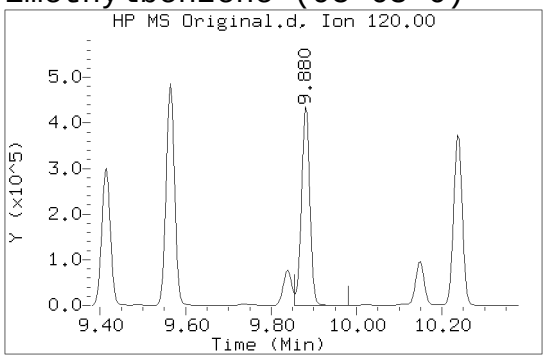

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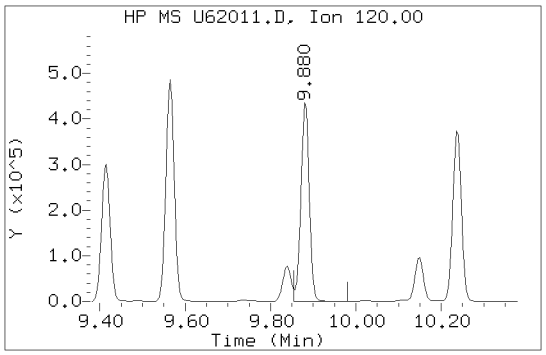

2-Nitropropane (79-46-9)

Reason Code:

BEFORE

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29-Jun-2024
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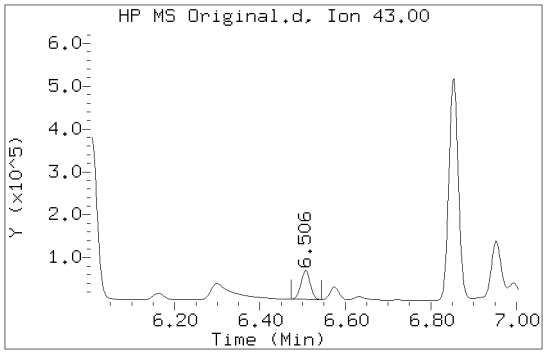

AFTER

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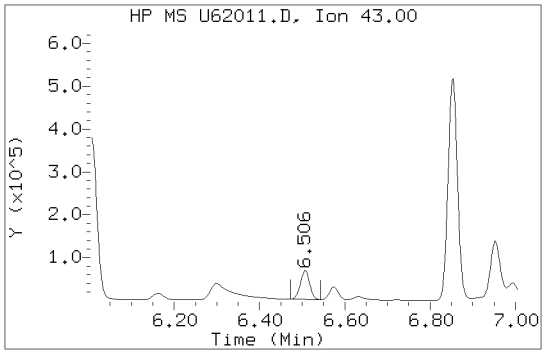

BEFORE

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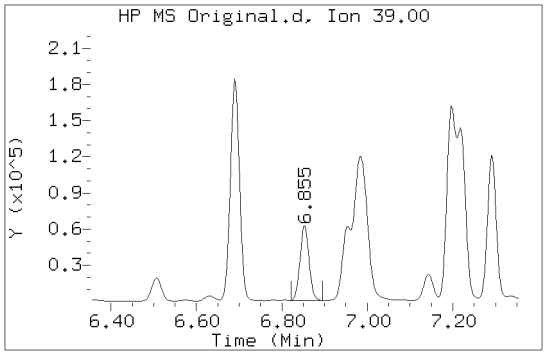

AFTER

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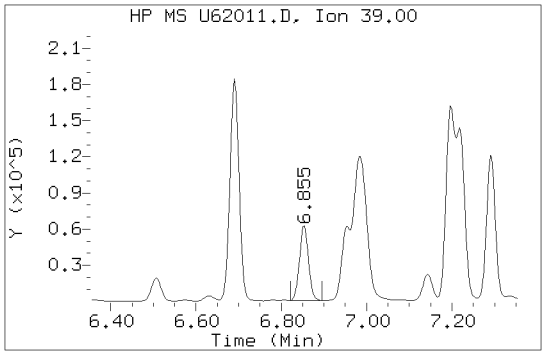

Acetaldehyde (75-07-0)

Reason Code:

BEFORE

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29-Jun-2024
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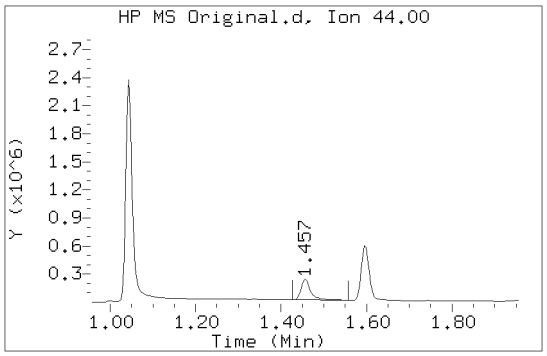

AFTER

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29-Jun-2024
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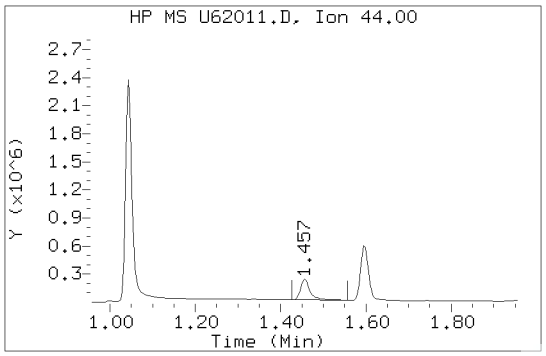

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Inj Date : 20-JUN-2024 14:36
InstruID : VOA9.i
LabSampID : VSTD200

Acetaldehyde (75-07-0)

Reason Code:

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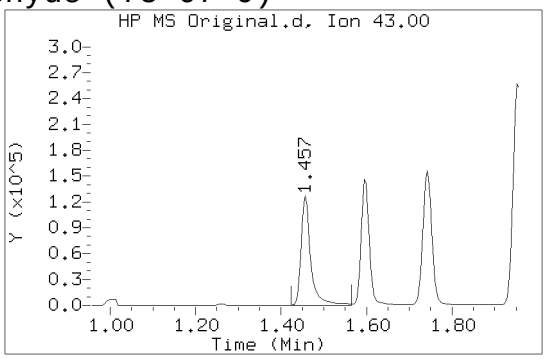

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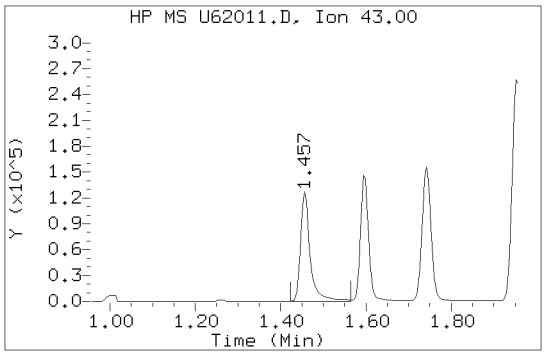

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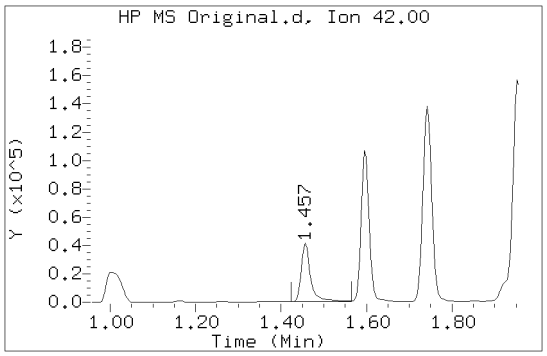

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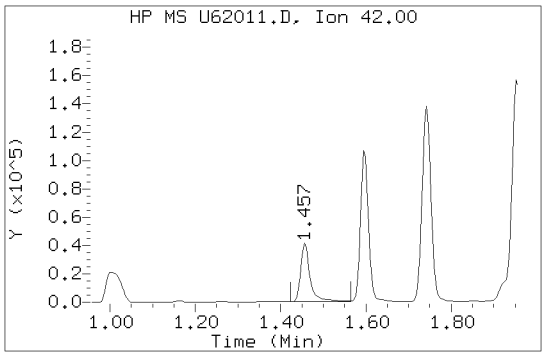

Isobutylene (115-11-7)

Reason Code:

BEFORE

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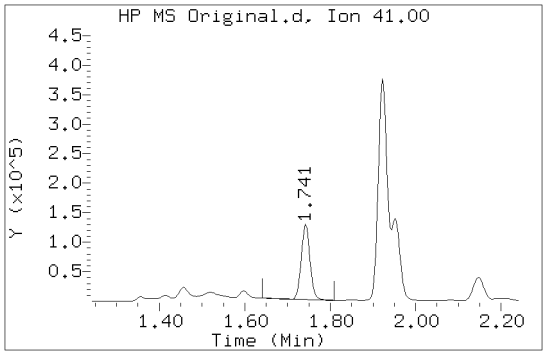

AFTER

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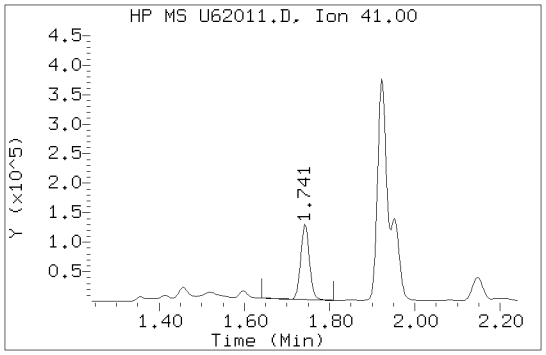

BEFORE

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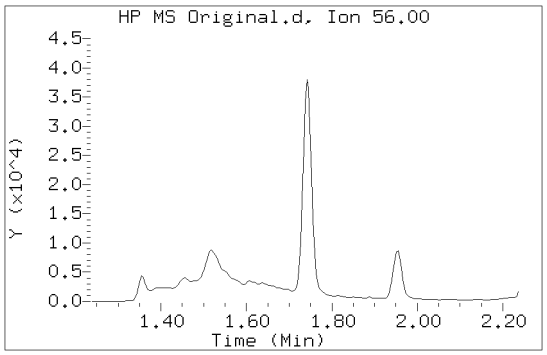

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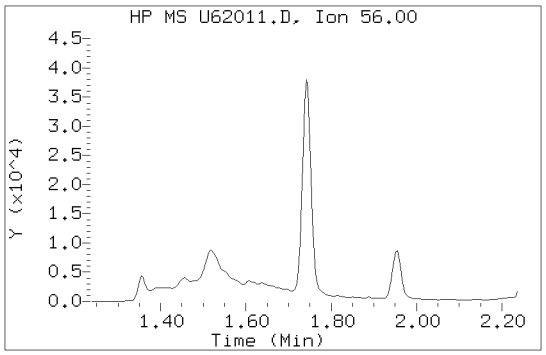

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Inj Date : 20-JUN-2024 14:36
InstruID : VOA9.i
LabSampID : VSTD200

Isobutylene (115-11-7)

Reason Code:

BEFORE

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12:18
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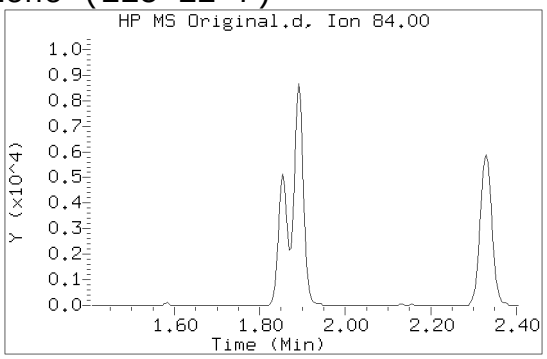

AFTER

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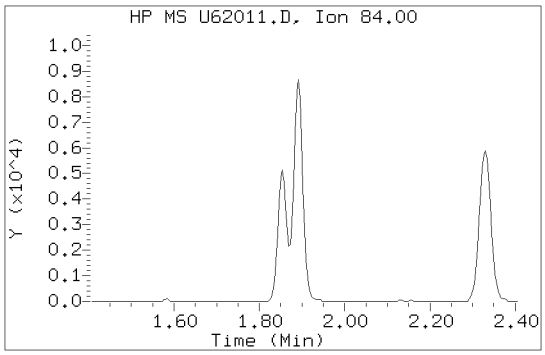
zaid



sec-Butyl Ether (6863-58-7)

Reason Code:

BEFORE

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12:18
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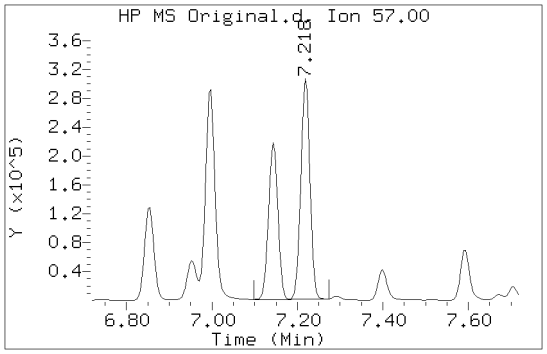
zaid



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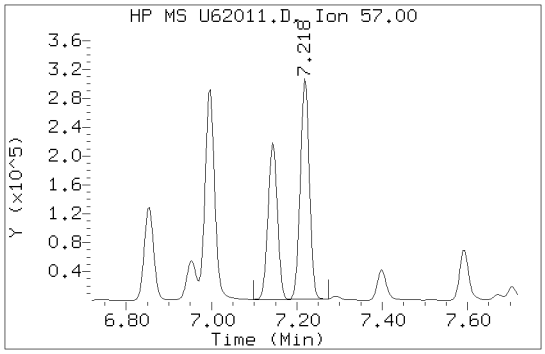

2-Chloropropene (557-98-2)

Reason Code:

BEFORE

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29-Jun-2024
12:18
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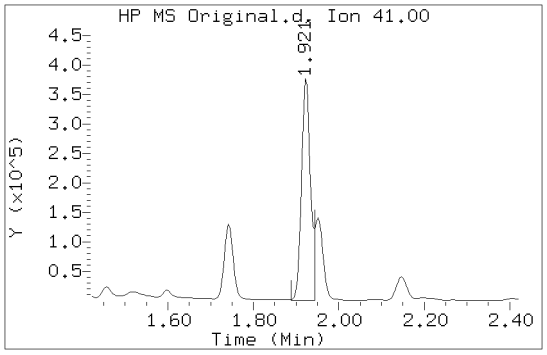

AFTER

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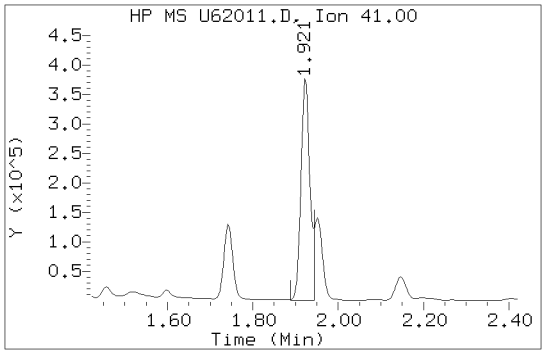

Data File: \\nahstws005\Target\chem\voa9.i\U240620.b\U62013.D Page 1
Report Date: 21-Jun-2024 17:18

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240620.b\U62013.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 20-JUN-2024 15:19
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\U240620.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)	CONCENTRATIONS FINAL (ug/l)		
RT	EXP RT	REL RT	MASS	RESPONSE			TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
9.193	9.180	(0.000)	95	63128			0.00- 100.00	100.00
9.193	9.180	(0.000)	50	12493			15.00- 40.00	19.79
9.193	9.180	(0.000)	75	30992			30.00- 60.00	49.09
9.193	9.180	(0.000)	96	4476			5.00- 9.00	7.09
9.193	9.180	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
9.193	9.180	(0.000)	174	51952			50.00- 0.00	82.30
9.193	9.180	(0.000)	175	4648			5.00- 9.00	8.95
9.193	9.180	(0.000)	176	51216			95.00- 101.00	98.58
9.193	9.180	(0.000)	177	3638			5.00- 9.00	7.10

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62014.D Page 1
Report Date: 09-Jul-2024 09:59

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62014.D
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Inj Date : 20-JUN-2024 15:40
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\U240620.b\8260C.m
Meth Date : 09-Jul-2024 09:58 r.patel Quant Type: ISTD
Cal Date : 20-JUN-2024 11:23 Cal File: U62002.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	4.815	4.815	(1.000)	261467	50.0000	
2 Dichlorodifluoromethane	85	1.164	1.037	(0.242)	89254	47.7978	47.79
3 Chloromethane	50	1.295	1.299	(0.269)	178137	43.2675	43.26
4 Propionitrile	54	4.335	4.335	(0.900)	116063	480.383	480.38
5 Vinyl Chloride	62	1.378	1.007	(0.286)	106724	46.0497	46.04
6 Bromomethane	94	1.618	1.621	(0.336)	48194	55.8053	55.80
7 Chloroethane	64	1.700	1.692	(0.353)	68283	46.6689	46.66
8 Trichlorofluoromethane	101	1.895	1.891	(0.394)	116562	46.5447	46.54
9 Acrolein	56	2.262	2.258	(0.470)	8126	100.726	100.72
10 Acetone	43	2.405	2.404	(0.499)	64078	95.4981	95.49
11 1,1-Dichloroethene	96	2.330	2.326	(0.484)	66469	43.5769	43.57
12 Isobutyl Alcohol	43	5.284	5.288	(1.097)	238029	922.168	922.16
13 Acetonitrile	39	2.667	2.667	(0.554)	89295	445.923	445.92
14 Allyl Chloride	41	2.671	2.671	(0.555)	209796	44.4363	44.43
15 Iodomethane	142	2.465	2.465	(0.512)	72500	118.830	118.82
16 Acrylonitrile	53	3.065	3.060	(0.636)	56583	88.6490	88.64
17 Methylene Chloride	84	2.791	2.791	(0.580)	83599	45.4003	45.40
18 Methyl tert-butyl ether	73	3.080	3.075	(0.640)	205219	45.6735	45.67
19 Carbon Disulfide	76	2.517	2.513	(0.523)	387301	92.1377	92.13
20 trans-1,2-Dichloroethene	96	3.057	3.053	(0.635)	74817	46.8329	46.83

21 Vinyl Acetate	43	4.335	4.335 (0.900)	87541	95.9801	95.98
22 1,1-Dichloroethane	63	3.511	3.507 (0.729)	127549	42.0314	42.03

	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)	117530	45.2938	45.29
	24 2-Butanone	43	4.260	4.256	(0.885)	85973	94.8680	94.86
	25 Methacrylonitrile	41	4.493	4.489	(0.933)	54941	48.0543	48.05(a)
	26 2,2-Dichloropropane	77	4.178	4.178	(0.868)	106826	44.4202	44.42
	27 cis-1,2-Dichloroethene	96	4.193	4.189	(0.871)	91944	48.6382	48.63
	28 Chloroform	83	4.572	4.572	(0.949)	149488	48.3308	48.33
	29 Bromochloromethane	128	4.467	4.466	(0.928)	45353	43.3270	43.32
$	30 Dibromofluoromethane	113	4.744	4.748	(0.985)	82332	47.4047	47.40
	31 1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	119079	49.0535	49.05
	32 1,1-Dichloropropene	75	4.920	4.812	(0.887)	110224	48.2316	48.23
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	118273	48.6502	48.65
	34 Carbon Tetrachloride	117	4.909	4.815	(0.885)	94380	49.2736	49.27
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	100440	45.3415	45.34
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	374629	50.0000	
	37 Benzene	78	5.138	5.141	(0.926)	342905	44.4748	44.47
	38 Trichloroethene	130	5.786	5.786	(1.043)	86889	46.4381	46.43
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	104604	48.0026	48.00
	40 Methyl Methacrylate	41	5.820	5.823	(1.209)	30364	44.3775	44.37
	41 2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	6333	117.723	117.72(M)
	42 1,2-Dichloropropane	63	6.007	6.004	(1.082)	91658	44.8824	44.88
	43 2-Nitropropane	43	6.506	6.506	(1.351)	21476	51.9496	51.94
	44 Dibromomethane	93	6.116	6.116	(1.102)	53995	45.2970	45.29
	45 4-Methyl-2-Pentanone	43	6.851	6.854	(0.837)	172612	92.0975	92.09
	46 cis-1,3-Dichloropropene	75	6.690	6.689	(1.205)	126870	49.8311	49.83
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	340082	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	312479	47.3386	47.33
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	111414	46.8284	46.82
	50 Toluene	91	6.978	6.982	(0.853)	360628	46.5733	46.57
	51 trans-1,3-Dichloropropene	75	7.196	7.195	(1.296)	105437	45.8820	45.88
	52 2-Hexanone	43	7.214	7.218	(0.881)	115864	91.9567	91.95
	53 1,1,2-Trichloroethane	83	7.353	7.356	(0.898)	67802	45.2836	45.28
	54 1,3-Dichloropropane	76	7.496	7.499	(0.916)	144168	45.8147	45.81
	55 Dibromochloromethane	129	7.690	7.694	(0.940)	82303	52.6856	52.68
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	68080	46.9781	46.97
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	78189	47.3082	47.30
	58 1-Chlorohexane	55	8.197	8.185	(1.477)	63799	44.1476	44.14
	59 Chlorobenzene	112	8.208	8.211	(1.003)	229265	48.6838	48.68
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.282	(1.012)	78588	47.2418	47.24
	61 Ethylbenzene	106	8.305	8.309	(1.015)	116912	48.7876	48.78
	62 m,p-Xylenes	106	8.410	8.407	(1.027)	291148	101.764	101.76
	63 o-Xylene	106	8.748	8.748	(1.069)	143049	50.7378	50.73
	64 Styrene	104	8.763	8.763	(1.071)	244478	51.8656	51.86
	66 Bromoform	173	8.916	8.920	(1.089)	50606	47.7734	47.77
	67 Isopropylbenzene	105	9.063	9.062	(1.107)	357875	51.1626	51.16
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.328	(0.917)	110688	48.3145	48.31
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	117200	45.1887	45.18
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	185702	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	110149	47.1408	47.14
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	21710	45.6843	45.68
	73 n-Propylbenzene	91	9.411	9.415	(0.925)	417929	52.0446	52.04
	74 Bromobenzene	156	9.317	9.317	(0.916)	100586	46.1027	46.10
	75 1,3,5-Trimethylbenzene	105	9.561	9.564	(0.940)	290948	47.6256	47.62

76	2-Chlorotoluene	91	9.482	9.482 (0.932)	251992	46.3702	46.37
77	4-Chlorotoluene	91	9.576	9.576 (0.941)	297691	48.2675	48.26

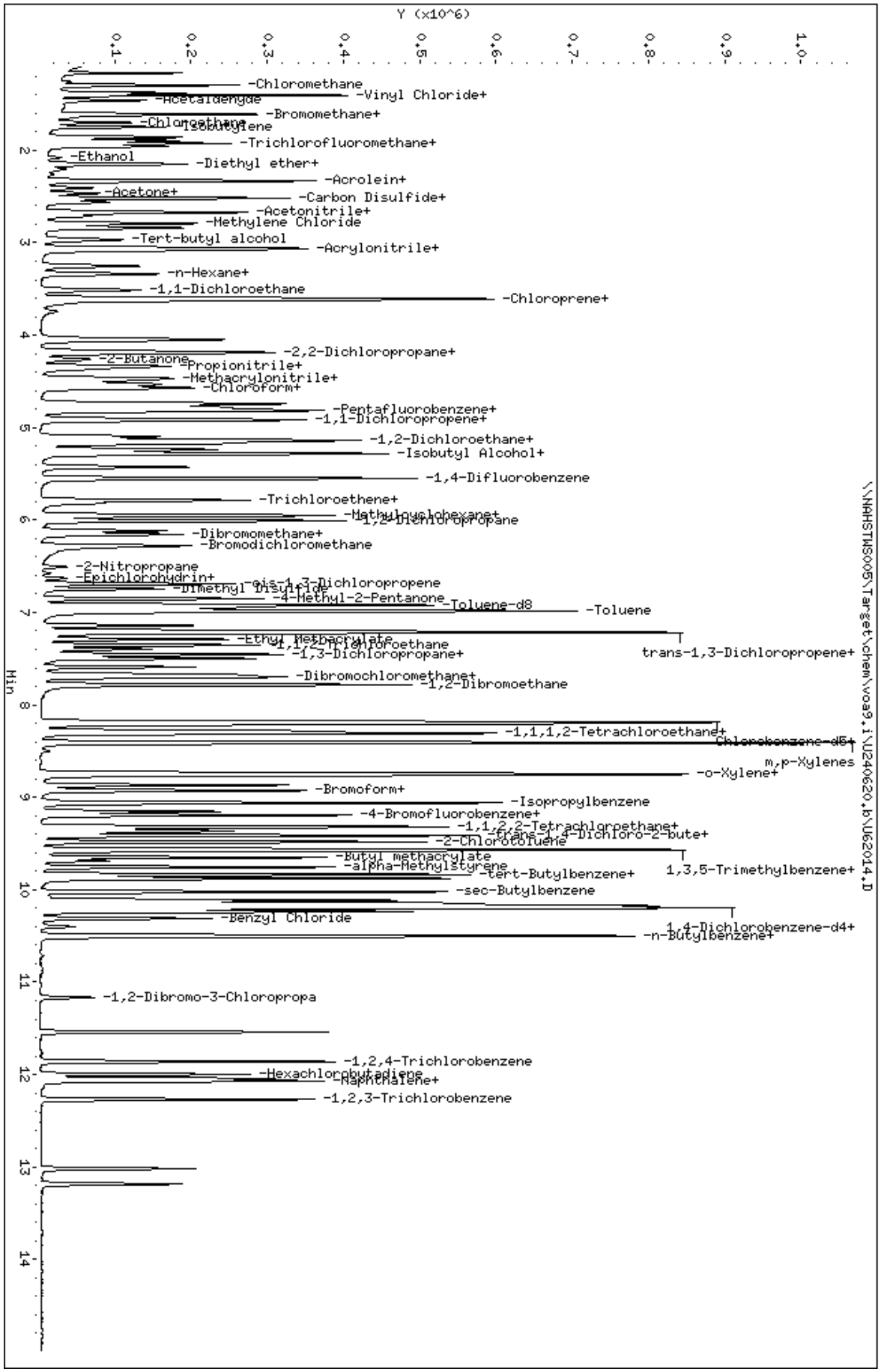
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
78	tert-Butylbenzene	119	9.838	9.839	(0.967)	254799	52.0611	52.06
79	1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	279039	47.2201	47.22
81	sec-Butylbenzene	105	10.022	10.026	(0.985)	334389	51.3021	51.30
82	p-Isopropyltoluene	119	10.146	10.149	(0.997)	293463	46.8335	46.83
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	179535	44.7210	44.72
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	186962	48.6202	48.62
86	Benzyl Chloride	91	10.311	10.315	(1.260)	144421	46.0411	46.04
87	n-Butylbenzene	91	10.495	10.494	(1.032)	255103	45.8227	45.82
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	177510	44.4097	44.40
89	1,2-Dibromo-3-Chloropropane	155	11.169	11.162	(1.098)	14389	50.1899	50.18
90	1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	115544	47.7799	47.77
91	Hexachlorobutadiene	225	12.001	12.001	(1.180)	49383	46.0548	46.05
92	Naphthalene	128	12.069	12.076	(1.186)	256651	45.6680	45.66
93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	105818	47.7895	47.78
146	Methyl acetate	43	2.712	2.708	(0.563)	62456	45.9808	45.98
138	Freon TF	101	2.334	2.329	(0.485)	63520	45.2055	45.20
141	Cyclohexane	56	4.782	4.812	(0.993)	116914	46.3044	46.30
142	Tetrahydrofuran	42	4.538	4.537	(0.942)	30184	97.4748	97.47
147	Methylcyclohexane	55	5.944	5.947	(1.071)	197320	49.6025	49.60
135	1,4-Dioxane	88	6.165	6.169	(1.280)	18480	936.200	936.20
132	n-Butanol	56	5.820	5.823	(1.209)	42522	896.063	896.06
136	n-Hexane	57	3.338	3.338	(0.693)	74893	44.6717	44.67
139	Diethyl ether	59	2.142	2.138	(0.445)	59031	46.5003	46.50
148	Tert-butyl alcohol	59	2.967	2.967	(0.616)	127517	850.225	850.22
149	Isopropyl alcohol	45	2.562	2.559	(0.532)	98502	853.455	853.45
156	Diisopropyl ether	45	3.619	3.615	(0.752)	270238	42.8506	42.85
162	Butyl acrylate	55	8.733	8.740	(1.067)	148080	47.3028	47.30
164	Dicyclopentadiene	66	10.202	10.198	(1.003)	378845	47.1183	47.11
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	259997	48.9520	48.95
167	Ethanol	45	2.079	2.082	(0.432)	18614	837.297	837.29
172	tert-Butyl formate	59	5.239	5.242	(1.088)	141997	108.444	108.44
151	4-Methyl-2-pentanol	45	7.214	7.218	(1.300)	467941	905.719	905.71
140	1,3-Butadiene	54	1.404	1.400	(0.292)	106198	47.3004	47.30
182	Epichlorohydrin	57	6.630	6.629	(1.195)	13359	203.624	203.62
M 94	1,2-Dichloroethylene (total)	96				166761	95.6283	95.62
M 95	Xylenes (total)	106				434197	152.548	152.54
145	alpha-Methylstyrene	118	9.756	9.756	(0.959)	104376	48.7601	48.76
130	Ethyl Acetate	43	4.530	4.534	(0.941)	29264	47.3877	47.38(M)
131	Methyl Acrylate	55	4.365	4.365	(0.907)	96077	44.3387	44.33
189	n-Butyl acetate	43	7.705	7.705	(0.941)	132331	48.8044	48.80
134	Cyclohexanone	55	9.152	9.156	(0.900)	90319	944.232	944.23
185	Isoprene	39	2.154	2.150	(0.447)	17152	45.1807	45.18
188	Isopropyl acetate	43	5.284	5.283	(0.952)	238252	47.5600	47.55
150	Allyl alcohol	57	3.338	3.338	(0.693)	74893	893.433	893.43
194	Acetaldehyde	44	1.460	1.456	(0.303)	77229	176.694	176.69(M)
200	Dimethyl Disulfide	94	6.746	6.745	(0.824)	67097	52.4852	52.48
202	Isobutylene	41	1.749	1.741	(0.363)	39900	45.8789	45.87(M)
133	Ethyl Acrylate	55	5.944	5.943	(1.234)	197320	47.9755	47.97
163	Butyl methacrylate	41	9.647	9.651	(0.948)	98704	52.4662	52.46
159	Propylene oxide	43	2.199	2.195	(0.457)	12407	103.867	103.86
178	Ethylene oxide	44	1.606	1.595	(0.334)	187952	96.8283	96.82(M)
203	2-Ethylhexyl Acrylate	55	12.043	12.046	(1.184)	94278	46.9683	46.96

204 Tetrahydrothiophene	60	7.672	7.672 (0.937)	93801	48.5360	48.53(A)
205 sec-Butyl Ether	57	7.214	7.214 (0.881)	165631	43.5894	43.58(AM)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
187 n-Amyl acetate	43	8.931	8.931	(1.091)	140560	46.7195	46.71
206 2-Chloropropene	41	1.925	1.925	(0.400)	114526	42.6672	42.66(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.



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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

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62014.D
Inj Date : 20-JUN-2024 15:40
InstruID : VOA9.i
LabSampID : VSTD050

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

BEFORE

MASS
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6333
HEIGHT
3503
29-Jun-2024
12:19
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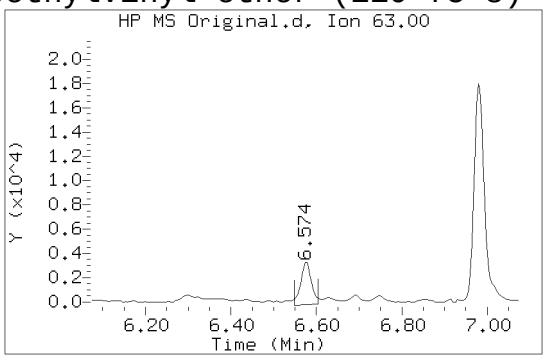

AFTER

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09-Jul-2024
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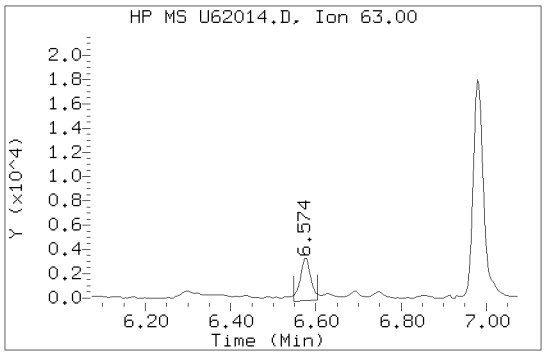

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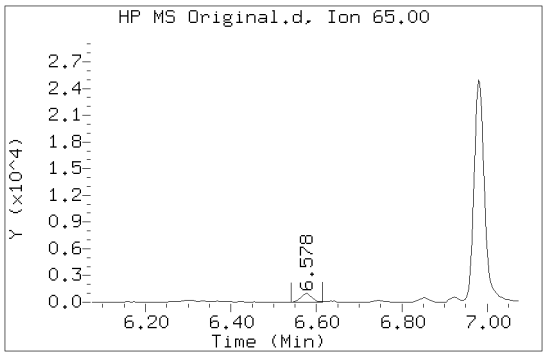

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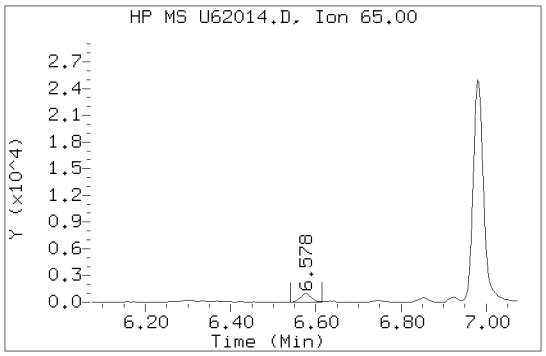

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29-Jun-2024
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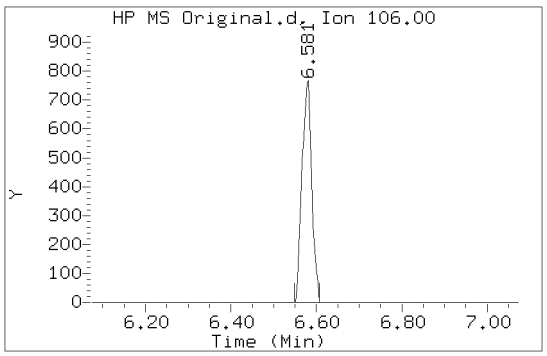

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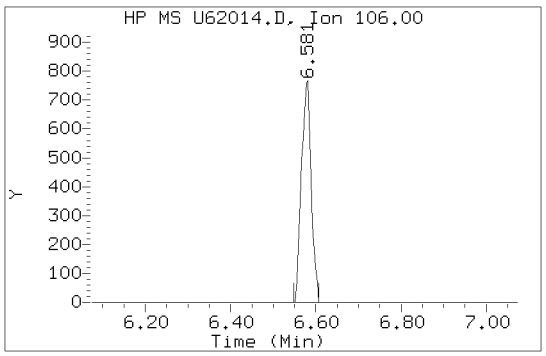

Ethyl Acetate (141-78-6)

Reason Code:

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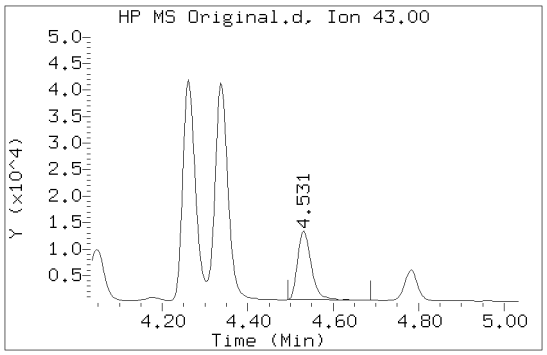

AFTER

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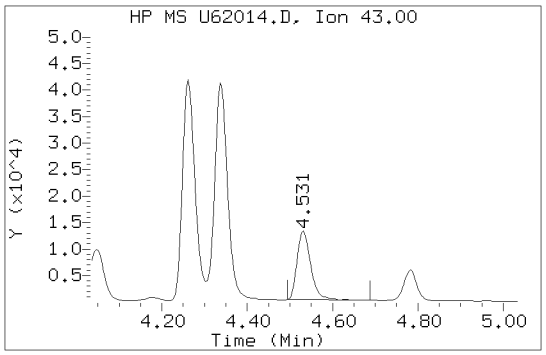

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InstruID : VOA9.i
LabSampID : VSTD050

Ethyl Acetate (141-78-6)

Reason Code:

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12:19
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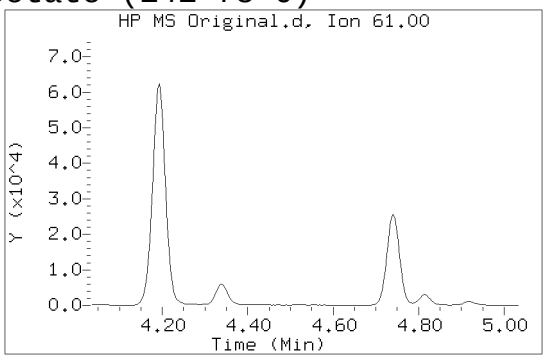

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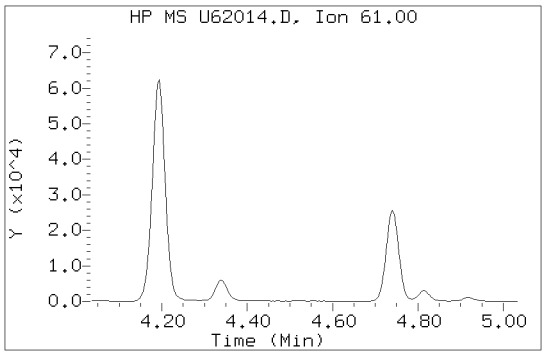

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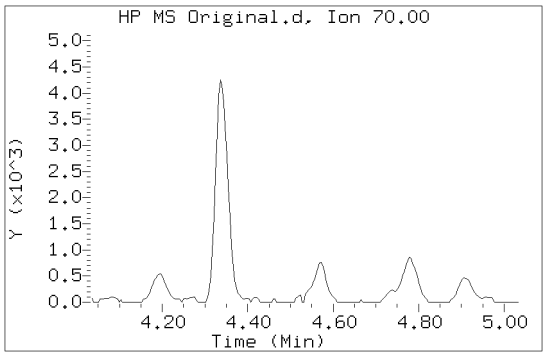

AFTER
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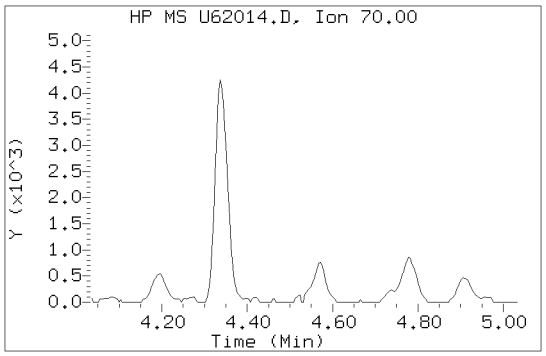
09-Jul-2024
09:59



Ethylene oxide (75-21-8)

Reason Code:

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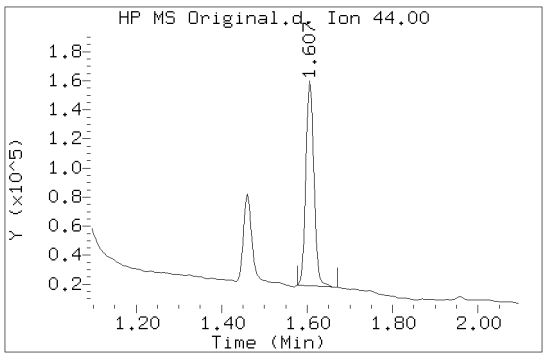

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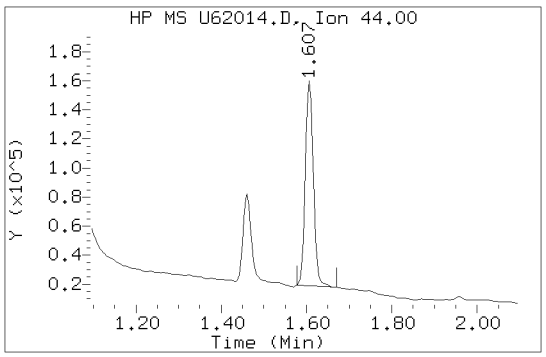

Acetaldehyde (75-07-0)

Reason Code:

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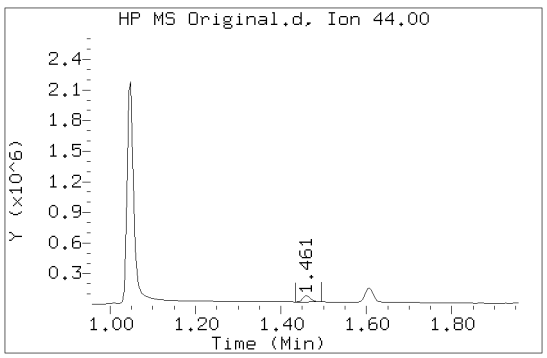

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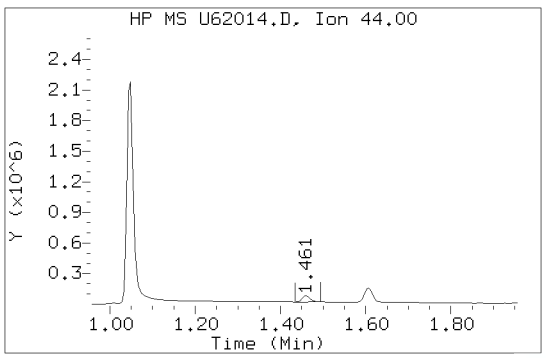

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Inj Date : 20-JUN-2024 15:40
InstruID : VOA9.i
LabSampID : VSTD050

Acetaldehyde (75-07-0)

Reason Code:

BEFORE

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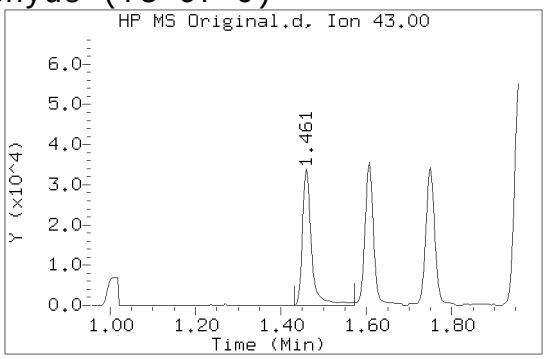

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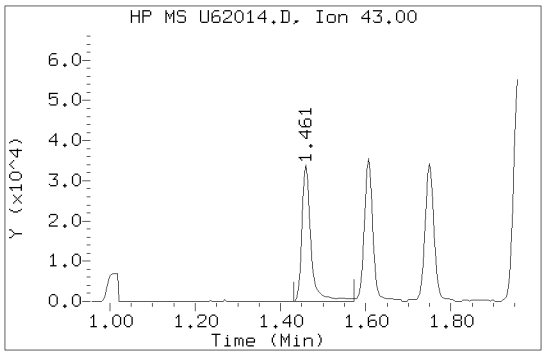

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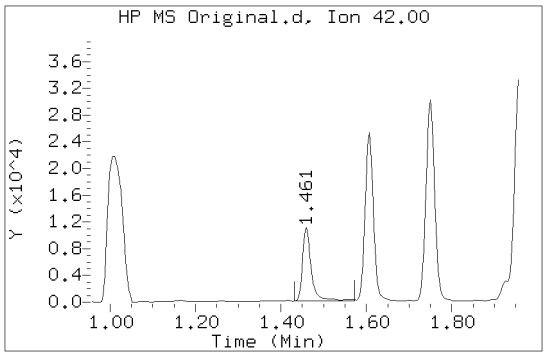

AFTER

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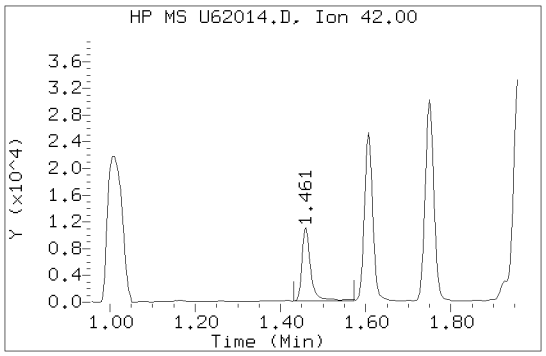

Isobutylene (115-11-7)

Reason Code:

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29-Jun-2024
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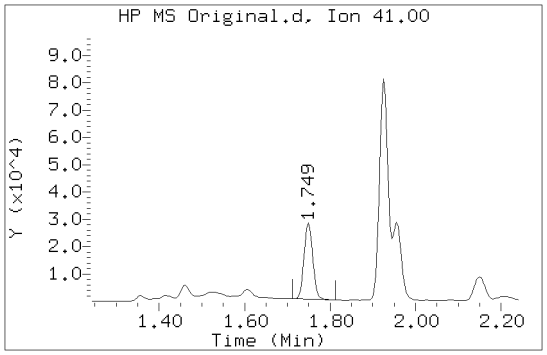

AFTER

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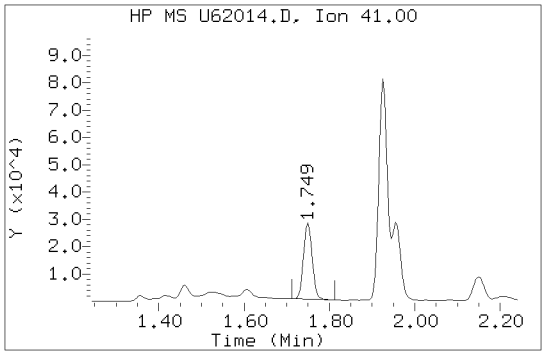

BEFORE

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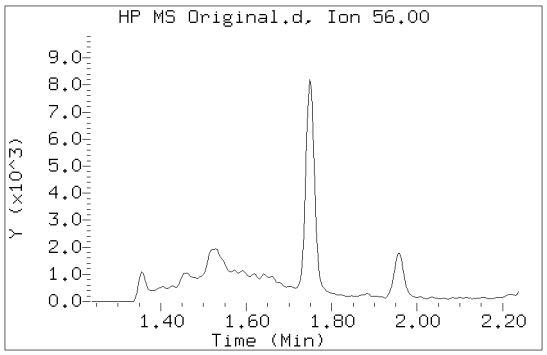

AFTER

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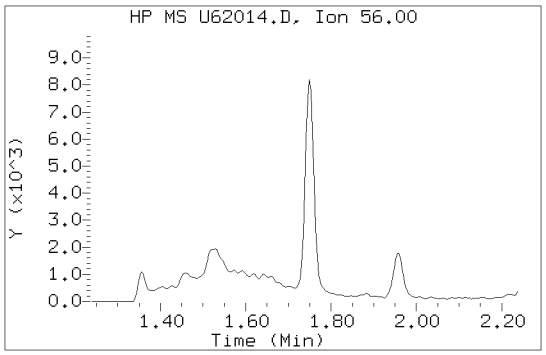

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Inj Date : 20-JUN-2024 15:40
InstruID : VOA9.i
LabSampID : VSTD050

Isobutylene (115-11-7)

Reason Code:

BEFORE

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12:19
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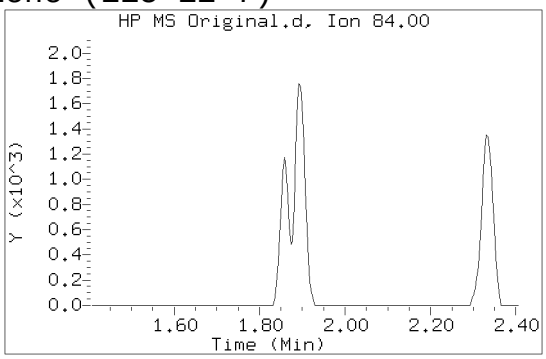

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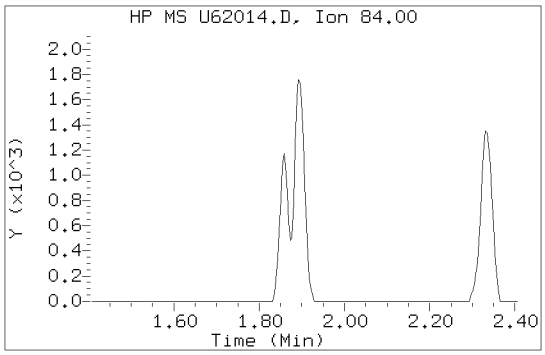

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Reason Code:

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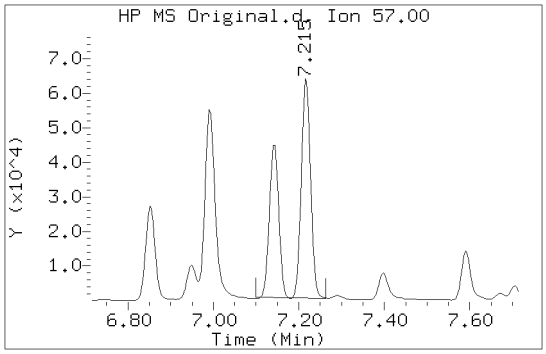

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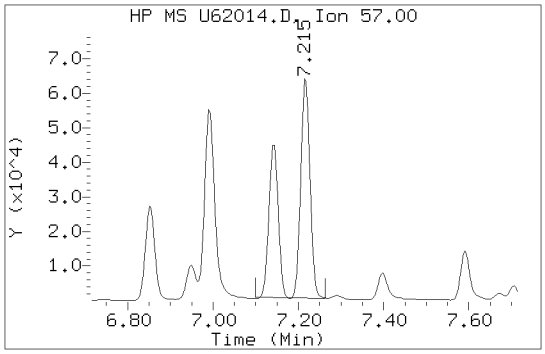

right solutions.
right partner.

RawData

Volatiles by EPA 8260C

Workorder

HS24060694

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

07/24/2024

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\U240621.b\U62101.D Page 1
Report Date: 21-Jun-2024 16:40

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240621.b\U62101.D
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Inj Date : 21-JUN-2024 09:24
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\U240621.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	80368			0.00- 100.00	100.00
9.194	9.180	(0.000)	50	14064			15.00- 40.00	17.50
9.194	9.180	(0.000)	75	38880			30.00- 60.00	48.38
9.194	9.180	(0.000)	96	5311			5.00- 9.00	6.61
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	73632			50.00- 0.00	91.62
9.194	9.180	(0.000)	175	6565			5.00- 9.00	8.92
9.194	9.180	(0.000)	176	70640			95.00- 101.00	95.94
9.194	9.180	(0.000)	177	4805			5.00- 9.00	6.80

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62102.D Page 1
Report Date: 22-Jul-2024 14:51

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62102.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 21-JUN-2024 09:46
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\U240621.b\8260C.m
Meth Date : 22-Jul-2024 14:51 VOA9.i Quant Type: ISTD
Cal Date : 20-JUN-2024 14:15 Cal File: U62010.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: NAHSTW7014

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)	233200	50.0000	
2	Dichlorodifluoromethane	85	1.168	1.168	(0.243)	77807	50.0000	46.71
3	Chloromethane	50	1.299	1.299	(0.270)	154484	50.0000	41.97
4	Propionitrile	54	4.332	4.332	(0.900)	103809	500.000	481.74
5	Vinyl Chloride	62	1.378	1.378	(0.286)	83697	50.0000	40.50
6	Bromomethane	94	1.610	1.610	(0.334)	34966	50.0000	45.22
7	Chloroethane	64	1.696	1.696	(0.352)	52799	50.0000	40.33(M)
8	Trichlorofluoromethane	101	1.895	1.895	(0.394)	100917	50.0000	45.18
9	Acrolein	56	2.262	2.262	(0.470)	6400	100.000	88.57(M)
10	Acetone	43	2.405	2.405	(0.499)	49895	100.000	82.38(M)
11	1,1-Dichloroethene	96	2.330	2.330	(0.484)	55244	50.0000	40.60
12	Isobutyl Alcohol	43	5.284	5.284	(1.097)	192863	1000.00	837.75
13	Acetonitrile	39	2.671	2.671	(0.555)	73943	500.000	413.26
14	Allyl Chloride	41	2.671	2.671	(0.555)	170727	50.0000	40.46
15	Iodomethane	142	2.465	2.465	(0.512)	54323	100.000	101.56
16	Acrylonitrile	53	3.065	3.065	(0.636)	46071	100.000	80.88
17	Methylene Chloride	84	2.795	2.795	(0.580)	68323	50.0000	41.36
18	Methyl tert-butyl ether	73	3.076	3.076	(0.639)	175275	50.0000	43.75
19	Carbon Disulfide	76	2.521	2.521	(0.524)	315678	100.000	84.20
20	trans-1,2-Dichloroethene	96	3.057	3.057	(0.635)	61567	50.0000	43.16

21 Vinyl Acetate	43	4.335	4.335 (0.900)	68111	100.000	83.68
22 1,1-Dichloroethane	63	3.511	3.511 (0.729)	108795	50.0000	40.16(M)

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62102.D Page 2
Report Date: 22-Jul-2024 14:51

	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)	93958	50.0000	40.57(M)
	24 2-Butanone	43	4.260	4.260	(0.885)	66398	100.000	82.16
	25 Methacrylonitrile	41	4.489	4.489	(0.932)	48228	50.0000	47.30(a)
	26 2,2-Dichloropropane	77	4.182	4.182	(0.868)	96899	50.0000	45.16
	27 cis-1,2-Dichloroethene	96	4.193	4.193	(0.871)	73175	50.0000	43.36
	28 Chloroform	83	4.572	4.572	(0.949)	124044	50.0000	44.90
	29 Bromochloromethane	128	4.467	4.467	(0.928)	37486	50.0000	40.15(M)
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	86355	50.0000	55.74
	31 1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	101481	50.0000	46.87
	32 1,1-Dichloropropene	75	4.920	4.920	(0.887)	91861	50.0000	46.05
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	96265	50.0000	45.28
	34 Carbon Tetrachloride	117	4.909	4.909	(0.885)	81115	50.0000	48.51
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	99333	50.0000	50.27
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	326985	50.0000	
	37 Benzene	78	5.138	5.138	(0.926)	282062	50.0000	41.91
	38 Trichloroethene	130	5.786	5.786	(1.043)	72537	50.0000	44.41
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	86267	50.0000	45.35
	40 Methyl Methacrylate	41	5.820	5.820	(1.209)	28240	50.0000	46.27
	41 2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	3644	100.000	83.47
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	74605	50.0000	41.85
	43 2-Nitropropane	43	6.506	6.506	(1.351)	18043	50.0000	48.93
	44 Dibromomethane	93	6.116	6.116	(1.102)	43772	50.0000	42.07
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	135465	100.000	82.38
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	102655	50.0000	46.19
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	298373	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	335182	50.0000	57.87
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	94060	50.0000	45.29
	50 Toluene	91	6.982	6.982	(0.853)	304634	50.0000	44.84
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	84151	50.0000	42.14
	52 2-Hexanone	43	7.214	7.214	(0.881)	102671	100.000	92.88
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	54411	50.0000	41.41
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	116163	50.0000	42.07
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	67936	50.0000	49.56
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	61615	50.0000	48.46
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	63653	50.0000	43.89
	58 1-Chlorohexane	55	8.197	8.197	(1.477)	52942	50.0000	41.93
	59 Chlorobenzene	112	8.212	8.212	(1.003)	191598	50.0000	46.33
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	66273	50.0000	45.40
	61 Ethylbenzene	106	8.309	8.309	(1.015)	96345	50.0000	45.82
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	243145	100.000	96.86
	63 o-Xylene	106	8.748	8.748	(1.069)	120914	50.0000	48.88
	64 Styrene	104	8.763	8.763	(1.071)	201382	50.0000	48.69
	66 Bromoform	173	8.920	8.920	(1.090)	41255	50.0000	44.56
	67 Isopropylbenzene	105	9.062	9.062	(1.107)	303138	50.0000	49.39
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	89570	50.0000	42.98
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	122285	50.0000	53.74
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	168763	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	86007	50.0000	40.61
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	16967	50.0000	40.69
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	342490	50.0000	46.93
	74 Bromobenzene	156	9.317	9.317	(0.916)	85426	50.0000	43.08
	75 1,3,5-Trimethylbenzene	105	9.565	9.565	(0.940)	245268	50.0000	44.30

76	2-Chlorotoluene	91	9.482	9.482 (0.932)	215378	50.0000	43.61
77	4-Chlorotoluene	91	9.576	9.576 (0.941)	250131	50.0000	44.62

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62102.D Page 3
Report Date: 22-Jul-2024 14:51

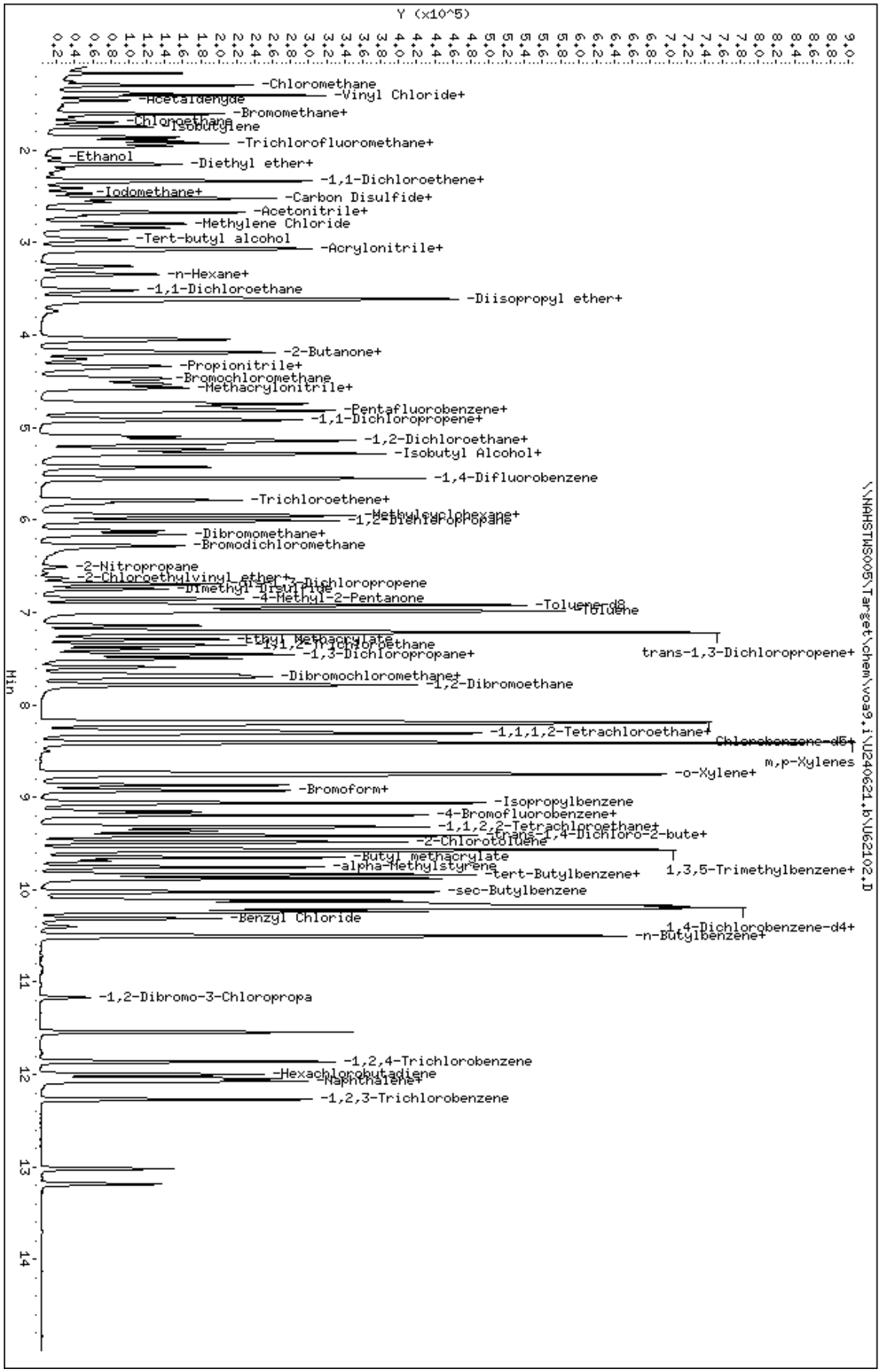
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.838	9.838	(0.967)	214762	50.0000	48.28
79	1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	232571	50.0000	43.30
81	sec-Butylbenzene	105	10.022	10.022	(0.985)	286345	50.0000	48.34
82	p-Isopropyltoluene	119	10.150	10.150	(0.998)	250113	50.0000	44.02
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	151461	50.0000	41.51
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	159523	50.0000	45.60
86	Benzyl Chloride	91	10.311	10.311	(1.260)	130910	50.0000	47.74
87	n-Butylbenzene	91	10.494	10.494	(1.032)	219058	50.0000	43.37
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	150250	50.0000	41.36
89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	11381	50.0000	43.96
90	1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	98757	50.0000	44.93
91	Hexachlorobutadiene	225	12.001	12.001	(1.180)	47882	50.0000	49.13
92	Naphthalene	128	12.069	12.069	(1.186)	203567	50.0000	40.10
93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	90692	50.0000	45.06
146	Methyl acetate	43	2.712	2.712	(0.563)	49071	50.0000	40.19(M)
138	Freon TF	101	2.334	2.334	(0.485)	56855	50.0000	45.36
141	Cyclohexane	56	4.781	4.781	(0.993)	98057	50.0000	43.48
142	Tetrahydrofuran	42	4.538	4.538	(0.942)	25821	100.000	93.49
147	Methylcyclohexane	55	5.947	5.947	(1.072)	175138	50.0000	50.44
135	1,4-Dioxane	88	6.168	6.168	(1.281)	16485	1000.00	936.36
132	n-Butanol	56	5.820	5.820	(1.209)	40275	1000.00	949.53
136	n-Hexane	57	3.342	3.342	(0.694)	64280	50.0000	42.98
139	Diethyl ether	59	2.142	2.142	(0.445)	47906	50.0000	42.22
148	Tert-butyl alcohol	59	2.963	2.963	(0.615)	110624	1000.00	826.65
149	Isopropyl alcohol	45	2.562	2.562	(0.532)	82654	1000.00	802.04(M)
156	Diisopropyl ether	45	3.619	3.619	(0.752)	210624	50.0000	37.44(M)
162	Butyl acrylate	55	8.733	8.733	(1.067)	130081	50.0000	47.36
164	Dicyclopentadiene	66	10.202	10.202	(1.003)	329839	50.0000	45.14
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	226803	50.0000	46.98
167	Ethanol	45	2.086	2.086	(0.433)	15927	1000.00	802.31
172	tert-Butyl formate	59	5.239	5.239	(1.088)	123943	100.000	106.40
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	416470	1000.00	923.54
140	1,3-Butadiene	54	1.404	1.404	(0.292)	82141	50.0000	41.02
182	Epichlorohydrin	57	6.630	6.630	(1.195)	11373	200.000	199.13
M 94	1,2-Dichloroethylene (total)	96				134742	100.000	(a)
145	alpha-Methylstyrene	118	9.756	9.756	(0.959)	86426	50.0000	44.64
130	Ethyl Acetate	43	4.530	4.530	(0.941)	26472	50.0000	48.09(M)
131	Methyl Acrylate	55	4.365	4.365	(0.907)	84051	50.0000	43.49
189	n-Butyl acetate	43	7.705	7.705	(0.941)	97429	50.0000	40.95
134	Cyclohexanone	55	9.152	9.152	(0.900)	70470	1000.00	811.78(M)
185	Isoprene	39	2.154	2.154	(0.447)	13637	50.0000	40.27(M)
188	Isopropyl acetate	43	5.284	5.284	(0.952)	193013	50.0000	44.14
150	Allyl alcohol	57	3.342	3.342	(0.694)	64280	1000.00	859.77
194	Acetaldehyde	44	1.460	1.460	(0.303)	67092	200.000	172.10(M)
200	Dimethyl Disulfide	94	6.746	6.746	(0.824)	57801	50.0000	51.70
202	Isobutylene	41	1.745	1.745	(0.362)	31512	50.0000	40.77(M)
133	Ethyl Acrylate	55	5.947	5.947	(1.235)	175138	50.0000	47.74
163	Butyl methacrylate	41	9.651	9.651	(0.949)	84031	50.0000	49.11
159	Propylene oxide	43	2.199	2.199	(0.457)	9566	100.000	89.79
178	Ethylene oxide	44	1.603	1.603	(0.333)	124697	100.000	72.02(M)
203	2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	83233	50.0000	45.73
204	Tetrahydrothiophene	60	7.672	7.672	(0.937)	80362	50.0000	47.39(A)

205 sec-Butyl Ether	57	7.218	7.218 (0.882)	151838	50.0000	45.54(AM)
187 n-Amyl acetate	43	8.931	8.931 (1.091)	108714	50.0000	41.18

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
206 2-Chloropropene	41	1.925	1.925	(0.400)	95894	50.0000	40.05(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.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Abundance
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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
\\NAHSTWS005\Target\chem\voa9,i\U240621,b\U62102.D
-Chloromethane
-Vinyl Chloride+
-Acetaldehyde
-Bromomethane+
-Chloroethane
-Isobutylene
-Trichlorofluoromethane+
-Ethanol
-Diethyl ether+
-1,1-Dichloroethene+
-Iodomethane+
-Carbon Disulfide+
-Acetonitrile+
-Methylene Chloride
-Tert-butyl alcohol
-Acrylonitrile+
-n-Hexane+
-1,1-Dichloroethane
-Diisopropyl ether+
-2-Butanone+
-Propionitrile+
-Bromochloromethane
-Methacrylonitrile+
-Pentafluorobenzene+
-1,1-Dichloropropene+
-1,2-Dichloroethane+
-Isobutyl Alcohol+
-1,4-Difluorobenzene
-Trichloroethene+
-Methylcyclohexane+
-1,2-Dichloropropane
-Dibromomethane+
-Bromodichloromethane
-2-Nitropropane
-2-Chloroethylvinyl ether+
-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+
-Dibromochloromethane+
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Chlorobenzene-d5+
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
-Benzyl Chloride
1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
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-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene+
-1,2,3-Trichlorobenzene

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Inj Date : 21-JUN-2024 09:46
InstruID : VOA9.i
LabSampID : VSTD050

Chloroethane (75-00-3)

Reason Code:

BEFORE

MASS
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22-Jul-2024
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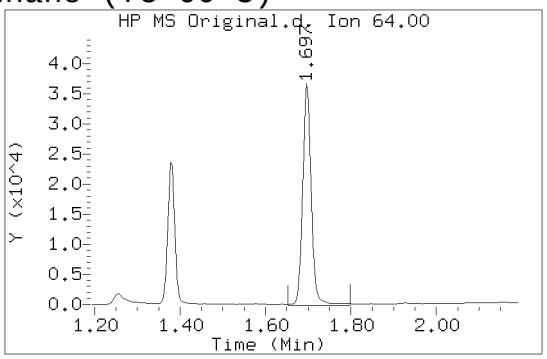

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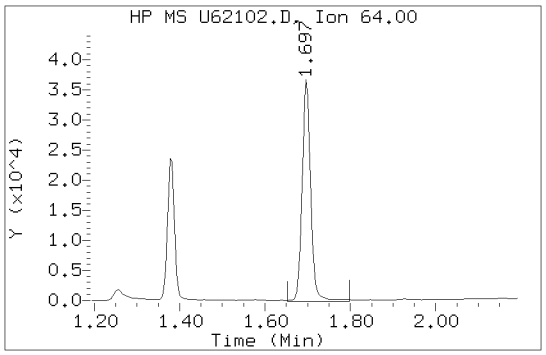

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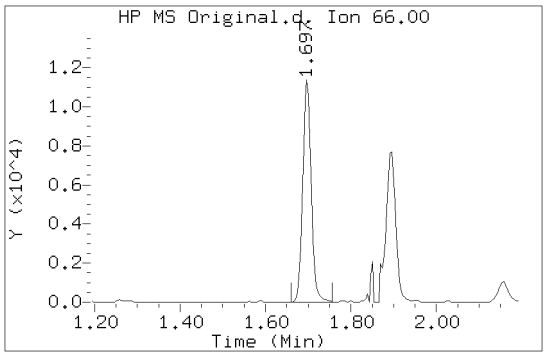

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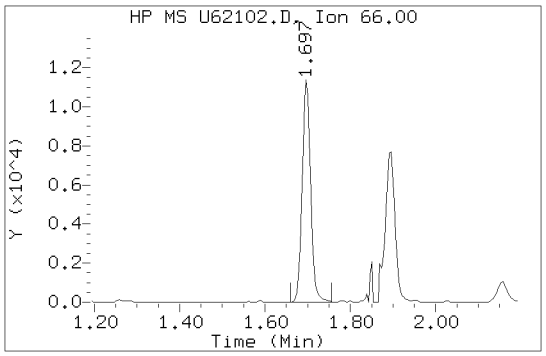

Acetone (67-64-1)

Reason Code:

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22-Jul-2024
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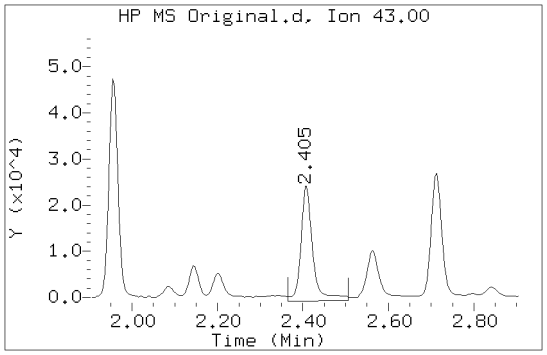

AFTER

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22-Jul-2024
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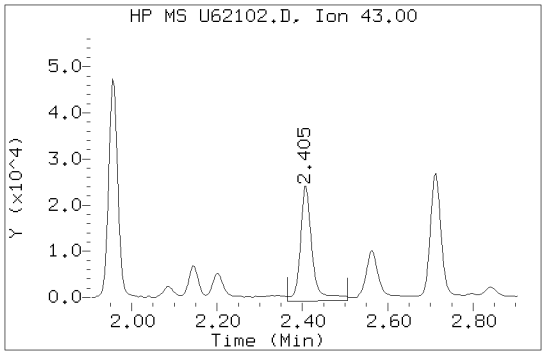
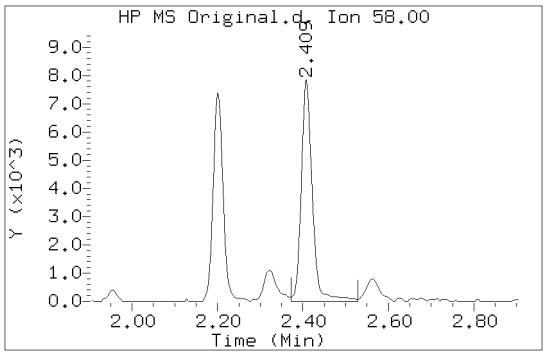
r
patel



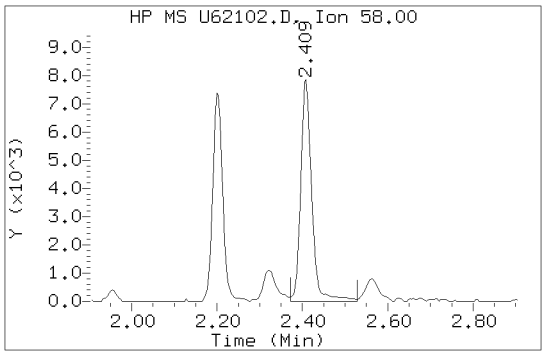
BEFORE

MASS
58
AREA
14430
HEIGHT
7851
22-Jul-2024
14:51
r
patel



AFTER

MASS
58
AREA
14430
HEIGHT
7851
22-Jul-2024
14:51
r
patel

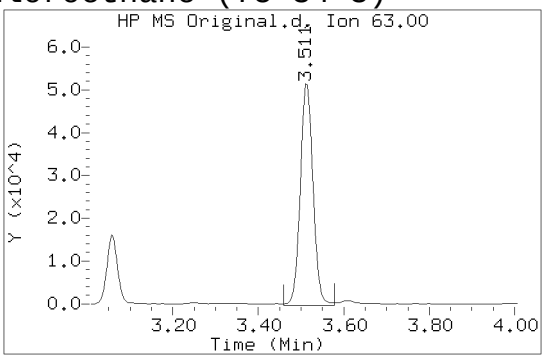


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62102.D
Inj Date : 21-JUN-2024 09:46
InstruID : VOA9.i
LabSampID : VSTD050

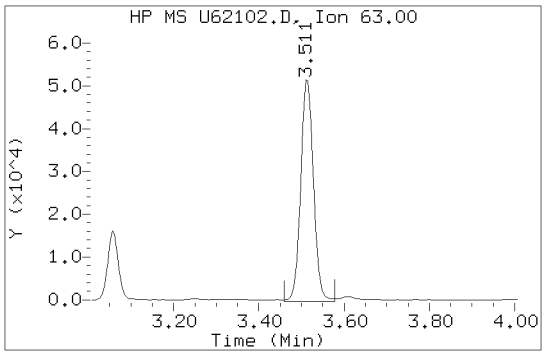
1,1-Dichloroethane (75-34-3)

Reason Code:

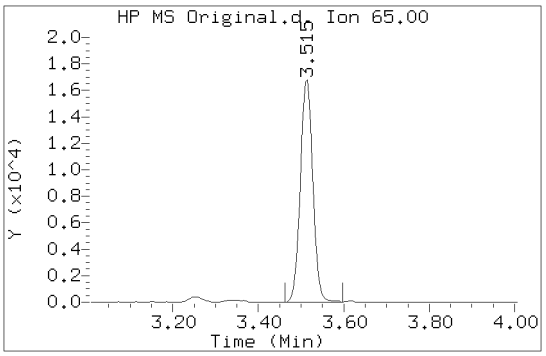
BEFORE
MASS
63
AREA
108795
HEIGHT
51780
22-Jul-2024
14:51
r
patel



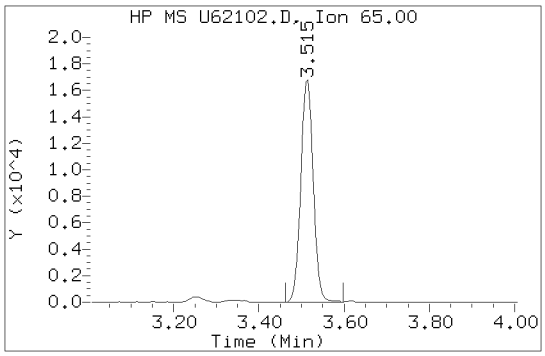
AFTER
MASS
63
AREA
108795
HEIGHT
51780
22-Jul-2024
14:51
r
patel



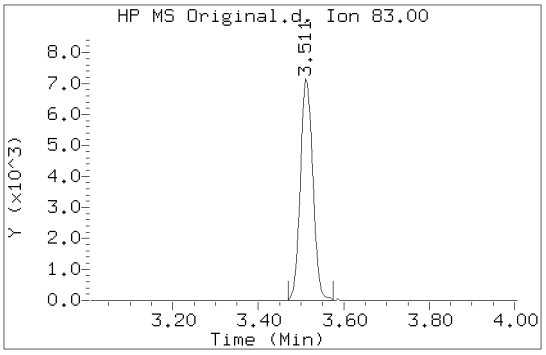
BEFORE
MASS
65
AREA
34671
HEIGHT
16784
22-Jul-2024
14:51
r
patel



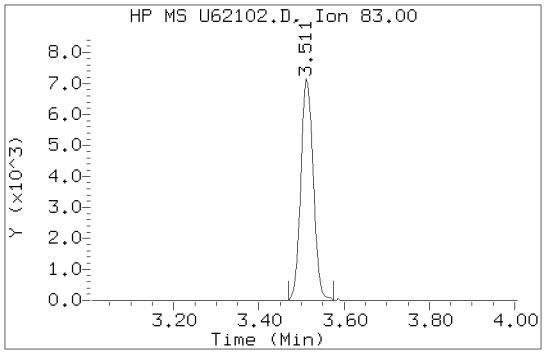
AFTER
MASS
65
AREA
34671
HEIGHT
16784
22-Jul-2024
14:51
r
patel



BEFORE
MASS
83
AREA
14690
HEIGHT
7152
22-Jul-2024
14:51
r
patel



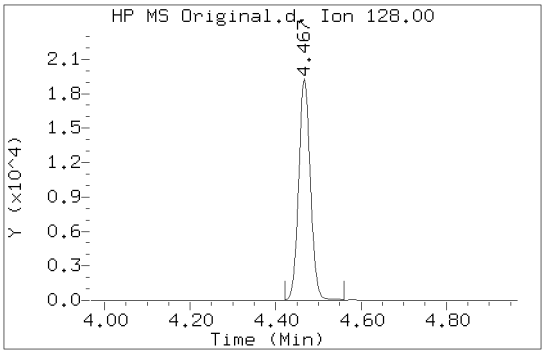
AFTER
MASS
83
AREA
14690
HEIGHT
7152
22-Jul-2024
14:51
r
patel



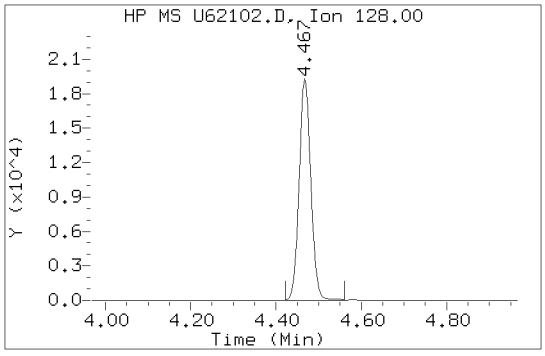
Bromochloromethane (74-97-5)

Reason Code:

BEFORE
MASS
128
AREA
37486
HEIGHT
19303
22-Jul-2024
14:51
r
patel



AFTER
MASS
128
AREA
37486
HEIGHT
19303
22-Jul-2024
14:51
r
patel



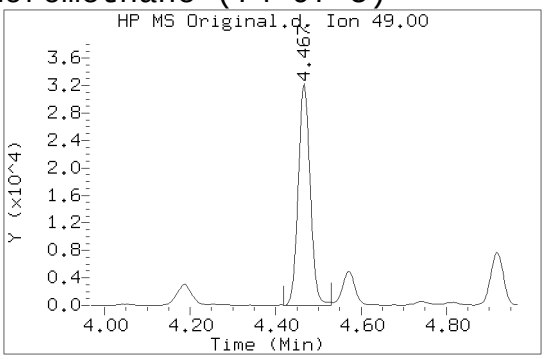
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62102.D
Inj Date : 21-JUN-2024 09:46
InstruID : VOA9.i
LabSampID : VSTD050

Bromochloromethane (74-97-5)

Reason Code:

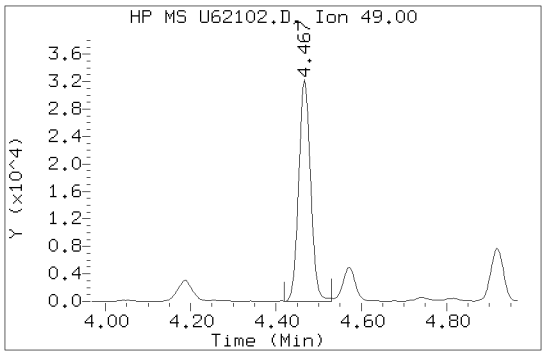
BEFORE

MASS
49
AREA
63845
HEIGHT
32280
22-Jul-2024
14:51
r
patel



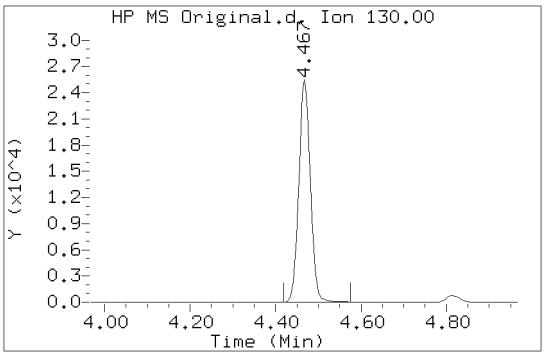
AFTER

MASS
49
AREA
63845
HEIGHT
32280
22-Jul-2024
14:51
r
patel



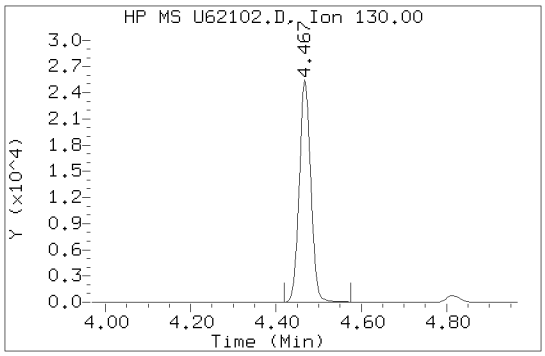
BEFORE

MASS
130
AREA
48670
HEIGHT
25464
22-Jul-2024
14:51
r
patel



AFTER

MASS
130
AREA
48670
HEIGHT
25464
22-Jul-2024
14:51
r
patel

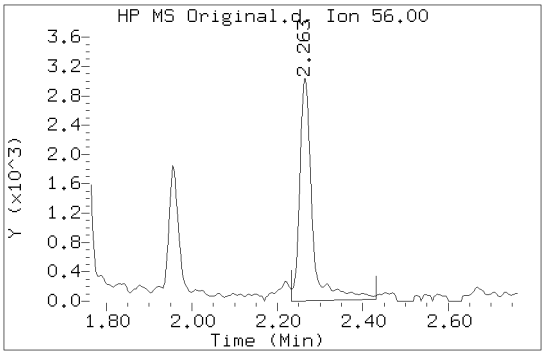


Acrolein (107-02-8)

Reason Code:

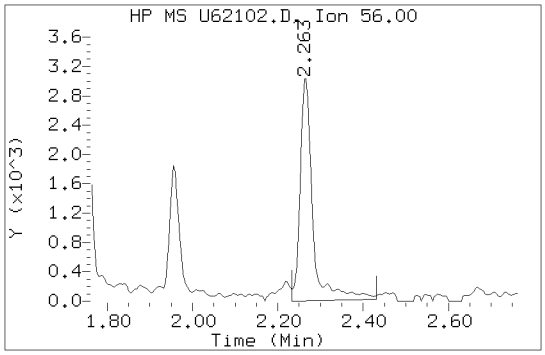
BEFORE

MASS
56
AREA
6400
HEIGHT
3027
22-Jul-2024
14:51
r
patel



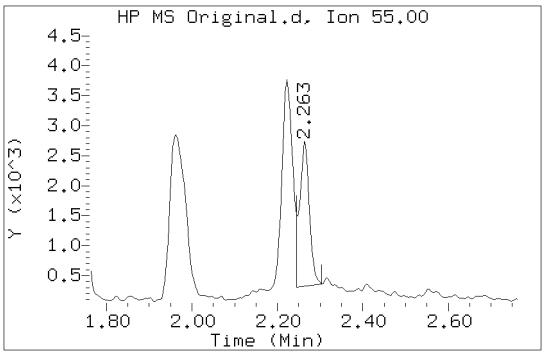
AFTER

MASS
56
AREA
6400
HEIGHT
3027
22-Jul-2024
14:51
r
patel



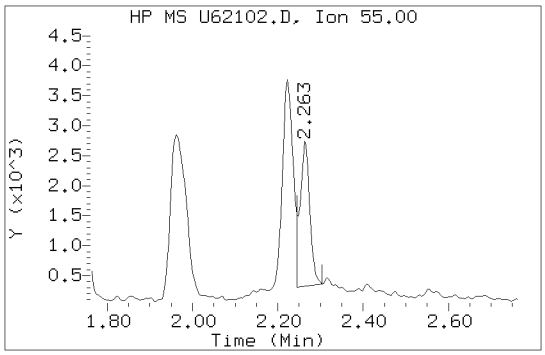
BEFORE

MASS
55
AREA
4042
HEIGHT
2419
22-Jul-2024
14:51
r
patel



AFTER

MASS
55
AREA
4042
HEIGHT
2419
22-Jul-2024
14:51
r
patel



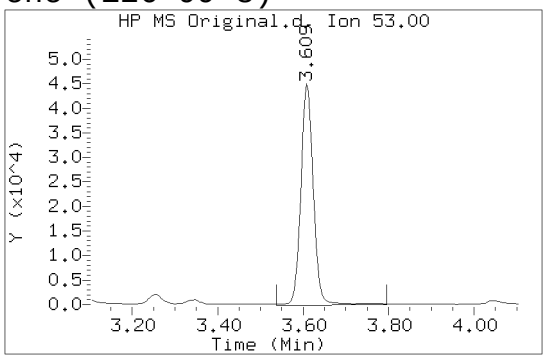
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62102.D
Inj Date : 21-JUN-2024 09:46
InstruID : VOA9.i
LabSampID : VSTD050

Chloroprene (126-99-8)

Reason Code:

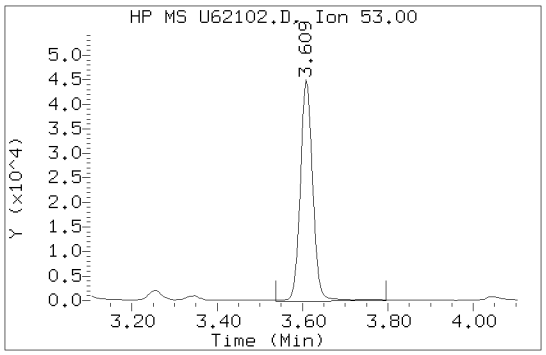
BEFORE

MASS
53
AREA
93958
HEIGHT
45138
22-Jul-2024
14:51
r
patel



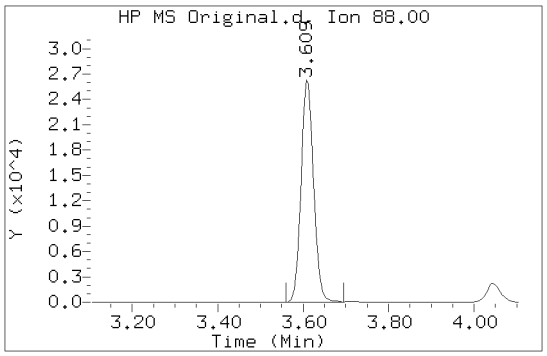
AFTER

MASS
53
AREA
93958
HEIGHT
45138
22-Jul-2024
14:51
r
patel



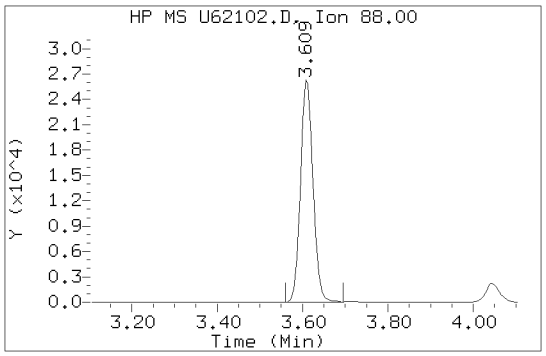
BEFORE

MASS
88
AREA
54190
HEIGHT
26304
22-Jul-2024
14:51
r
patel



AFTER

MASS
88
AREA
54190
HEIGHT
26304
22-Jul-2024
14:51
r
patel

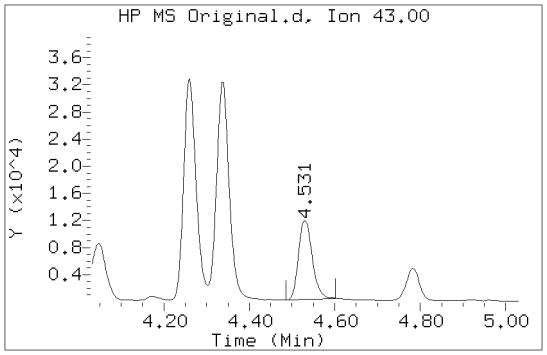


Ethyl Acetate (141-78-6)

Reason Code:

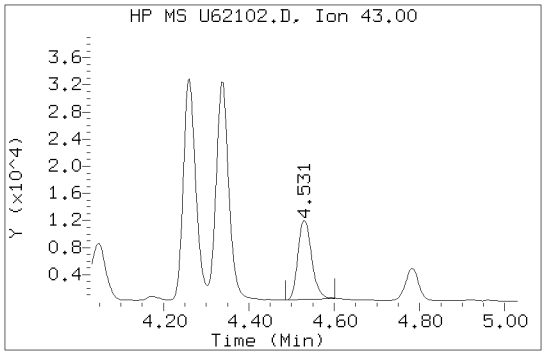
BEFORE

MASS
43
AREA
26472
HEIGHT
11604
22-Jul-2024
14:51
r
patel



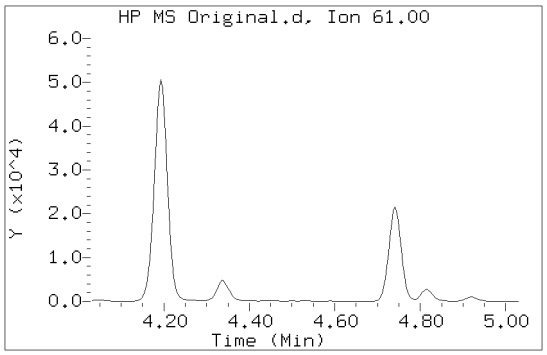
AFTER

MASS
43
AREA
26472
HEIGHT
11604
22-Jul-2024
14:51
r
patel



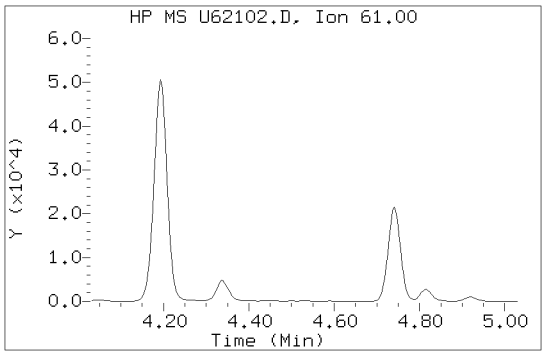
BEFORE

MASS
61
AREA
0
HEIGHT
0
22-Jul-2024
14:51
r
patel



AFTER

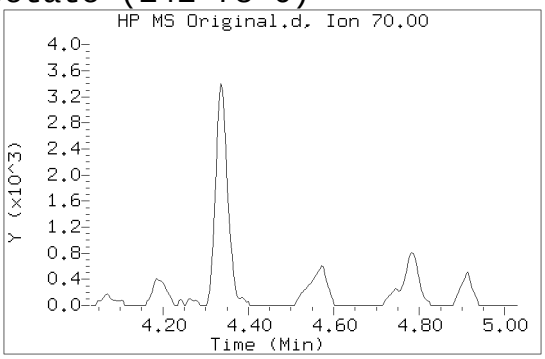
MASS
61
AREA
0
HEIGHT
0
22-Jul-2024
14:51
r
patel



Data File : \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62102.D
Inj Date : 21-JUN-2024 09:46
InstruID : VOA9.i
LabSampID : VSTD050

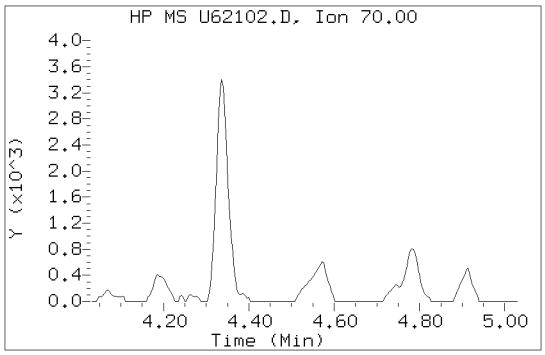
Ethyl Acetate (141-78-6)

BEFORE
MASS
70
AREA
0
HEIGHT
0
22-Jul-2024
14:51
r
patel



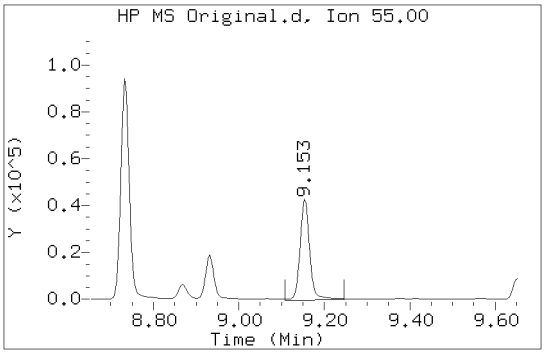
Reason Code:

AFTER
MASS
70
AREA
0
HEIGHT
0
22-Jul-2024
14:51
r
patel



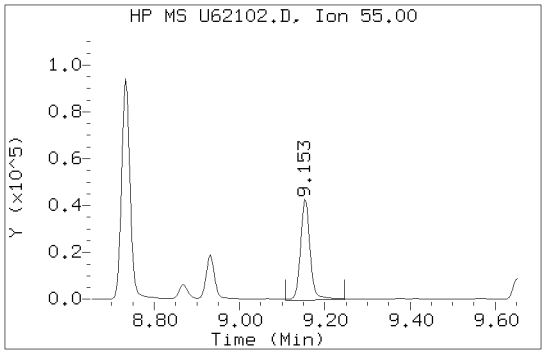
Cyclohexanone (108-94-1)

BEFORE
MASS
55
AREA
70470
HEIGHT
43127
22-Jul-2024
14:51
r
patel

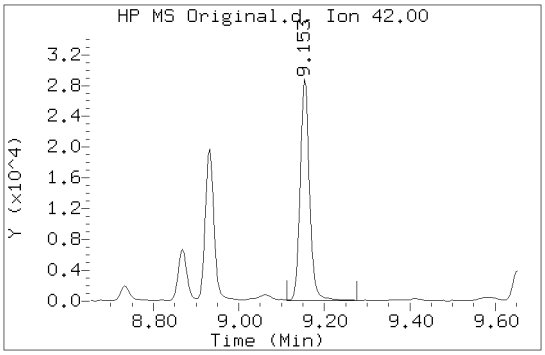


Reason Code:

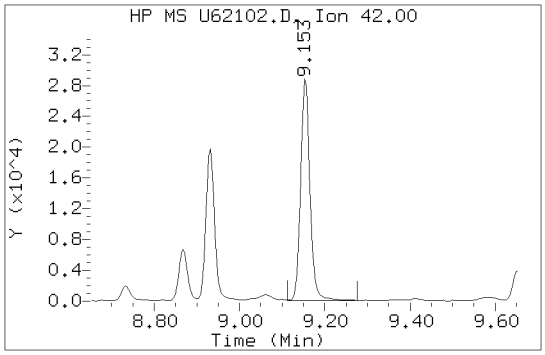
AFTER
MASS
55
AREA
70470
HEIGHT
43127
22-Jul-2024
14:51
r
patel



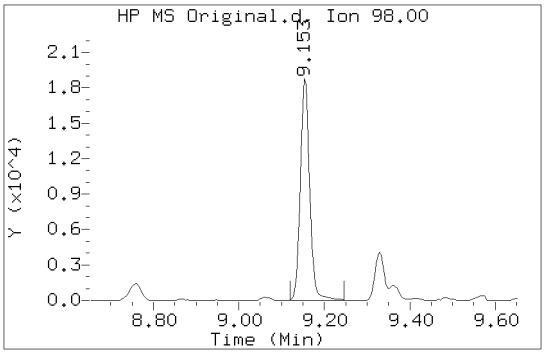
BEFORE
MASS
42
AREA
44667
HEIGHT
28782
22-Jul-2024
14:51
r
patel



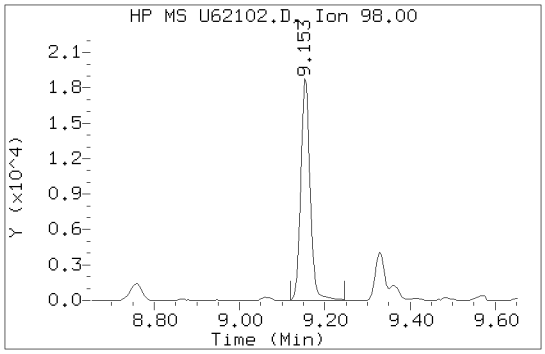
AFTER
MASS
42
AREA
44667
HEIGHT
28782
22-Jul-2024
14:51
r
patel



BEFORE
MASS
98
AREA
29141
HEIGHT
18776
22-Jul-2024
14:51
r
patel



AFTER
MASS
98
AREA
29141
HEIGHT
18776
22-Jul-2024
14:51
r
patel



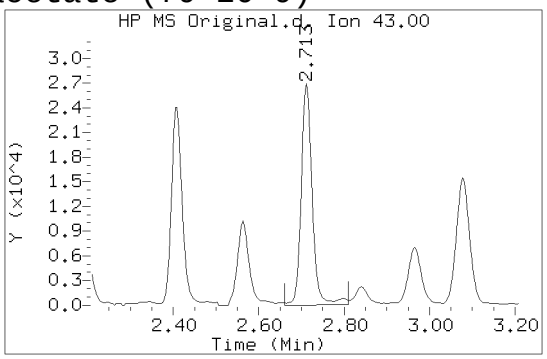
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62102.D
Inj Date : 21-JUN-2024 09:46
InstruID : VOA9.i
LabSampID : VSTD050

Methyl acetate (79-20-9)

Reason Code:

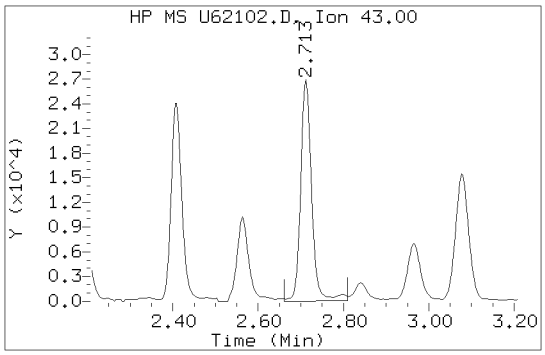
BEFORE

MASS
43
AREA
49071
HEIGHT
26922
22-Jul-2024
14:51
r
patel



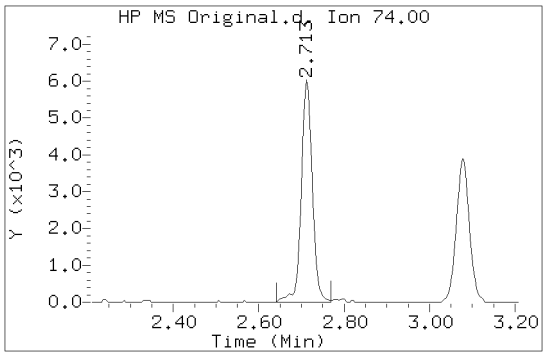
AFTER

MASS
43
AREA
49071
HEIGHT
26922
22-Jul-2024
14:51
r
patel



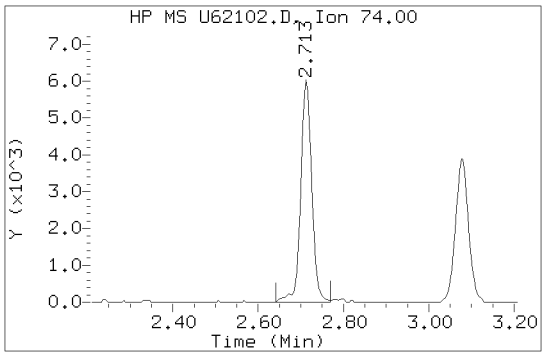
BEFORE

MASS
74
AREA
11029
HEIGHT
6035
22-Jul-2024
14:51
r
patel



AFTER

MASS
74
AREA
11029
HEIGHT
6035
22-Jul-2024
14:51
r
patel

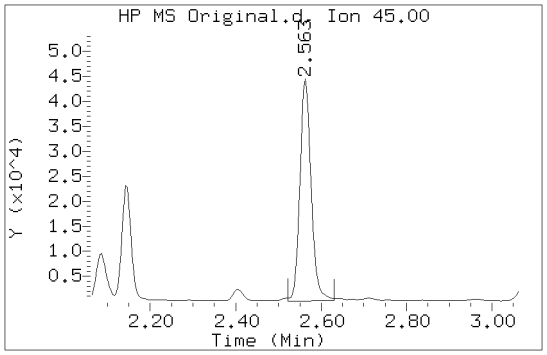


Isopropyl alcohol (67-63-0)

Reason Code:

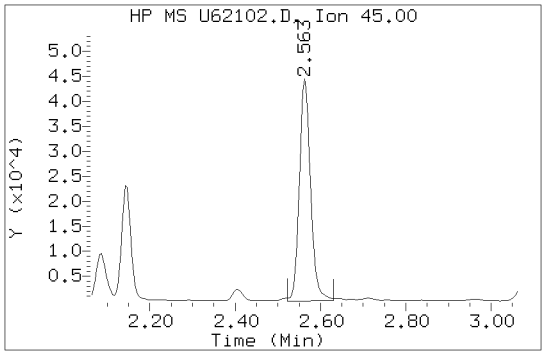
BEFORE

MASS
45
AREA
82654
HEIGHT
44417
22-Jul-2024
14:51
r
patel



AFTER

MASS
45
AREA
82654
HEIGHT
44417
22-Jul-2024
14:51
r
patel



BEFORE

MASS
59
AREA
3219
HEIGHT
1715
22-Jul-2024
14:51
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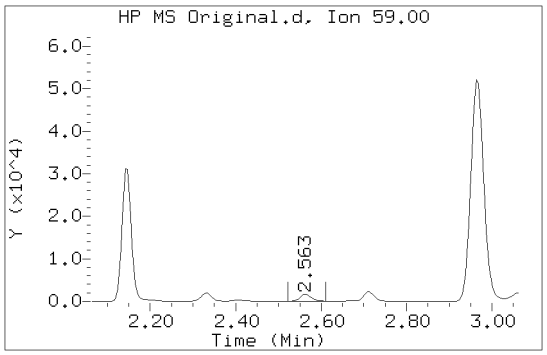

AFTER

MASS
59
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3219
HEIGHT
1715
22-Jul-2024
14:51
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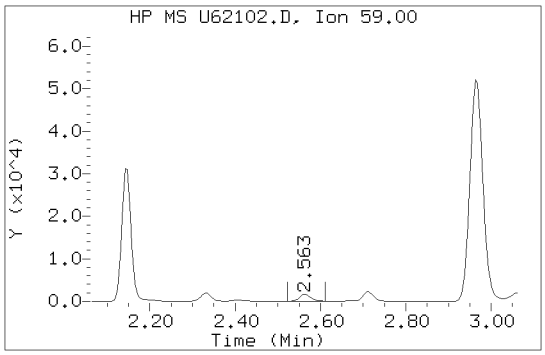

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Inj Date : 21-JUN-2024 09:46
InstruID : VOA9.i
LabSampID : VSTD050

Diisopropyl ether (108-20-3)

Reason Code:

BEFORE

MASS
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AREA
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HEIGHT
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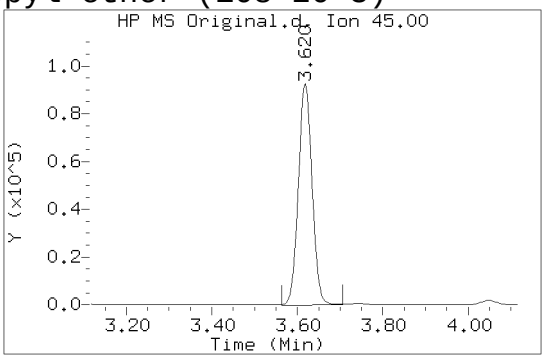
22-Jul-2024
14:51
r
patel



AFTER

MASS
45
AREA
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HEIGHT
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22-Jul-2024
14:51
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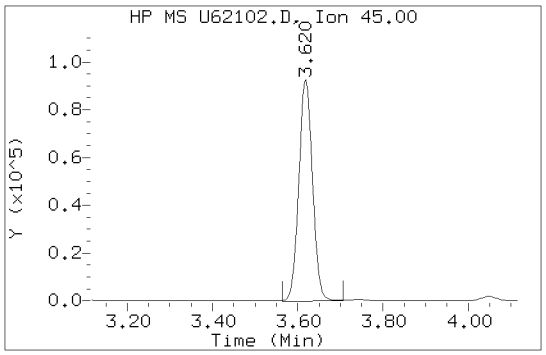
patel



BEFORE

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AREA
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10586
22-Jul-2024
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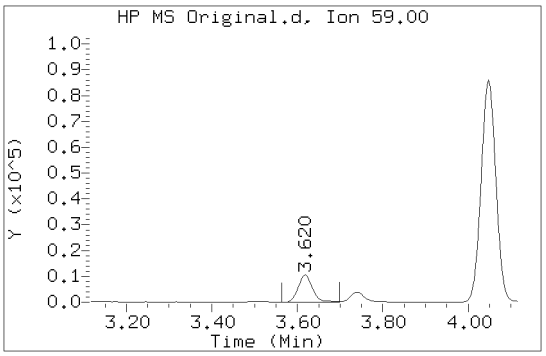

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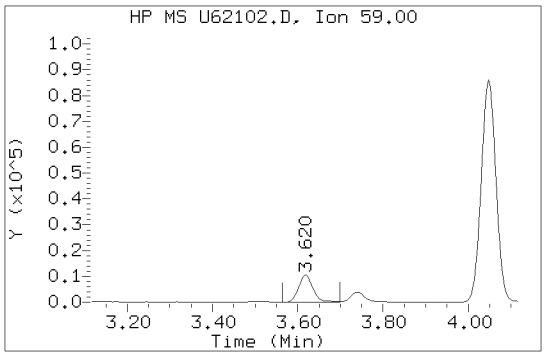

BEFORE

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AREA
980
HEIGHT
496
22-Jul-2024
14:51
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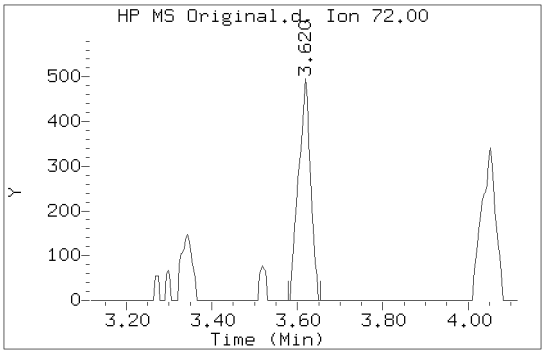

AFTER

MASS
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AREA
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HEIGHT
496
22-Jul-2024
14:51
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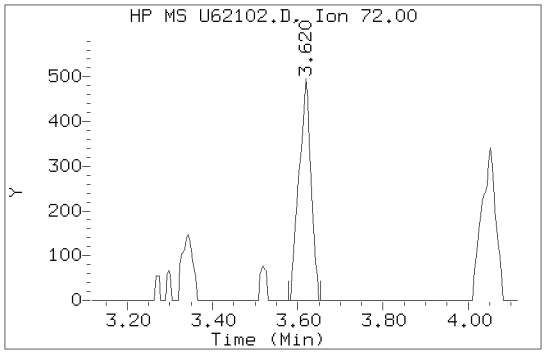

Ethylene oxide (75-21-8)

Reason Code:

BEFORE

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HEIGHT
88126
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14:51
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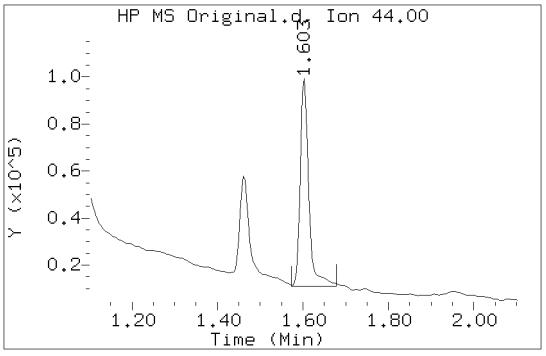

AFTER

MASS
44
AREA
124697
HEIGHT
88126
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14:51
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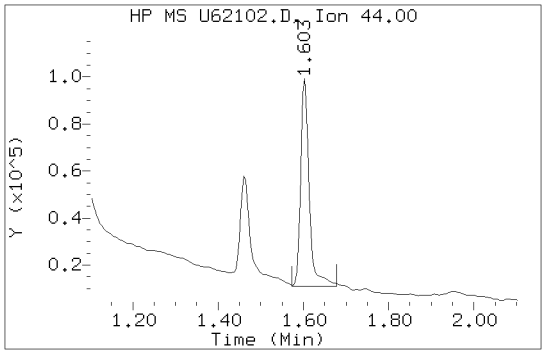

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Inj Date : 21-JUN-2024 09:46
InstruID : VOA9.i
LabSampID : VSTD050

Isoprene (78-79-5)

Reason Code:

BEFORE
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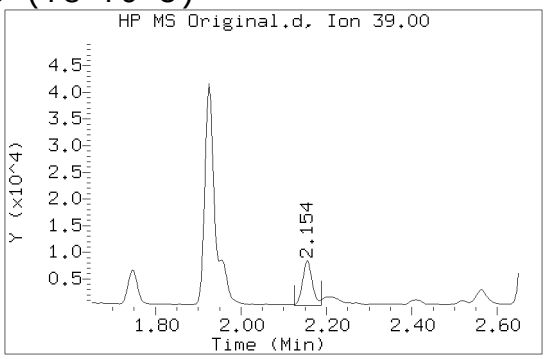
39
AREA
13637
HEIGHT
8438
22-Jul-2024
14:51
r
patel



AFTER
MASS
39
AREA
13637
HEIGHT
8438
22-Jul-2024
14:51
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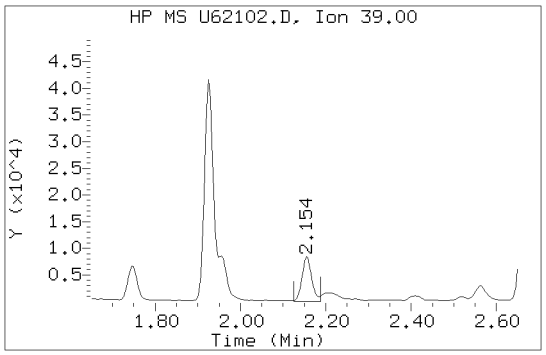

BEFORE
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67
AREA
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18104
22-Jul-2024
14:51
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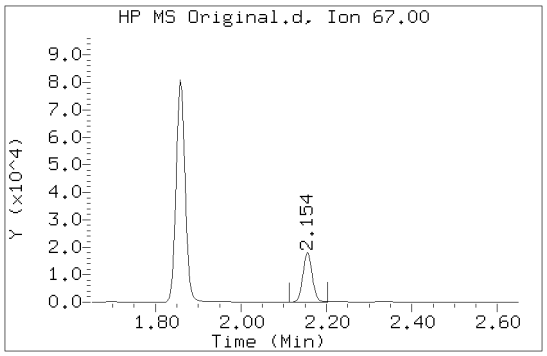

AFTER
MASS
67
AREA
28519
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22-Jul-2024
14:51
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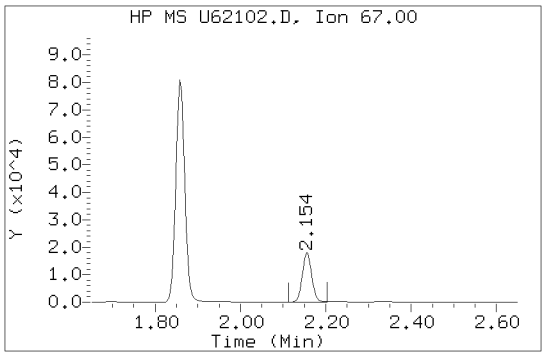

BEFORE
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HEIGHT
11656
22-Jul-2024
14:51
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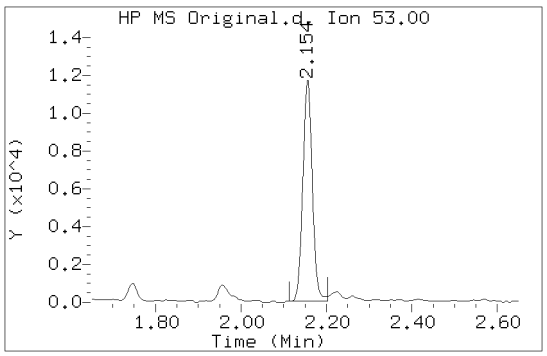
patel



AFTER
MASS
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18579
HEIGHT
11656
22-Jul-2024
14:51
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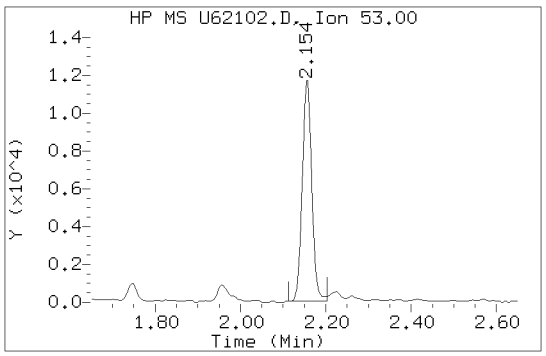
patel



Acetaldehyde (75-07-0)

Reason Code:

BEFORE
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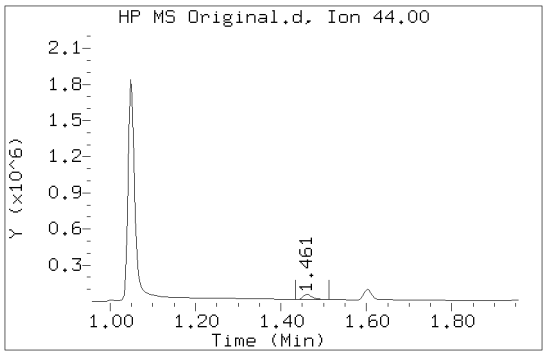
44
AREA
67092
HEIGHT
43267
22-Jul-2024
14:51
r
patel



AFTER
MASS
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HEIGHT
43267
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14:51
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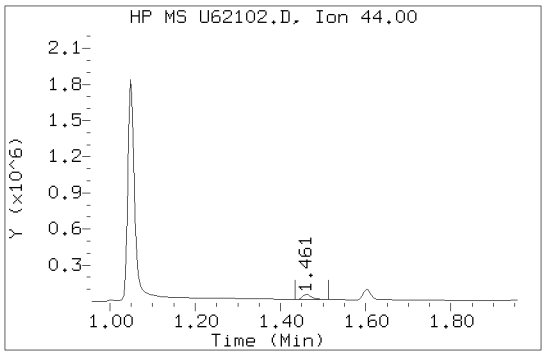
patel



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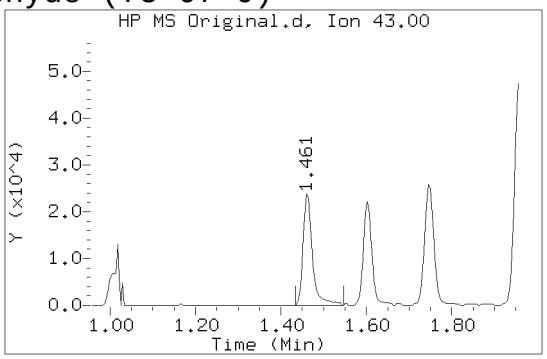
Inj Date : 21-JUN-2024 09:46
InstruID : VOA9.i
LabSampID : VSTD050

Acetaldehyde (75-07-0)

Reason Code:

BEFORE

MASS
43
AREA
36770
HEIGHT
23888
22-Jul-2024
14:51
r
patel



AFTER

MASS
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22-Jul-2024
14:51
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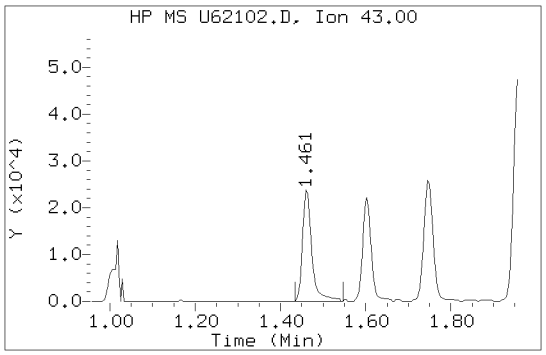

BEFORE

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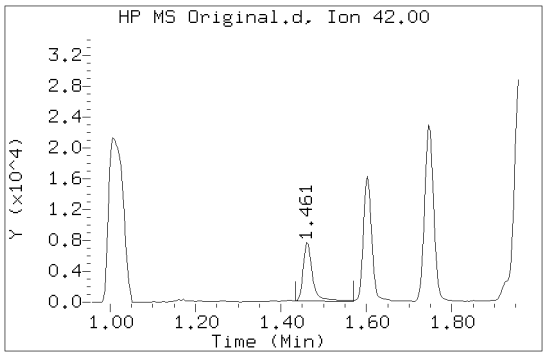

AFTER

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22-Jul-2024
14:51
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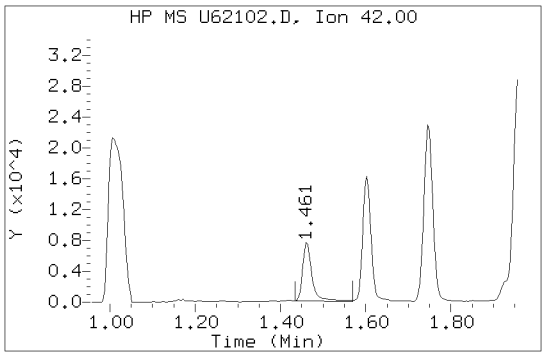
patel



Isobutylene (115-11-7)

Reason Code:

BEFORE

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22-Jul-2024
14:51
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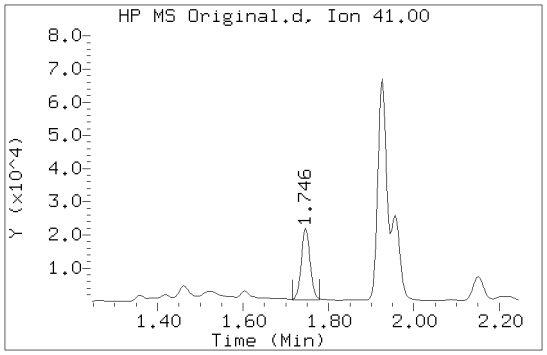
patel



AFTER

MASS
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HEIGHT
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22-Jul-2024
14:51
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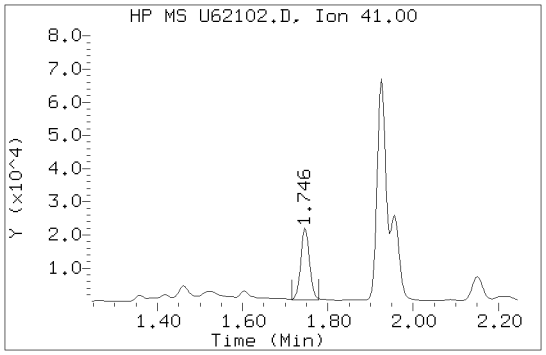

BEFORE

MASS
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HEIGHT
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22-Jul-2024
14:51
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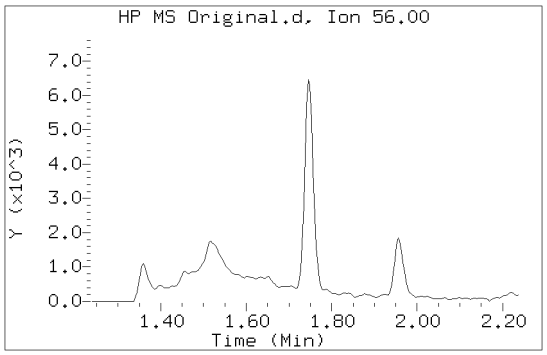

AFTER

MASS
56
AREA
0
HEIGHT
0
22-Jul-2024
14:51
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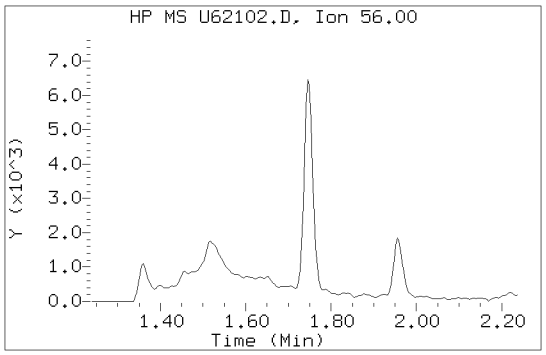
patel



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Inj Date : 21-JUN-2024 09:46
InstruID : VOA9.i
LabSampID : VSTD050

Isobutylene (115-11-7)

Reason Code:

BEFORE

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HEIGHT
0
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14:51
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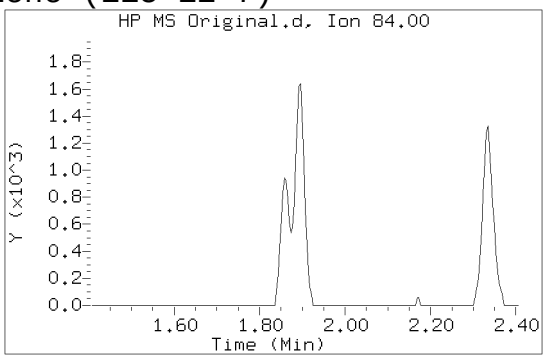
patel



AFTER

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22-Jul-2024
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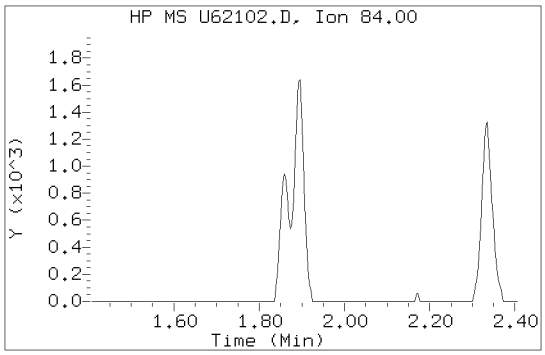

sec-Butyl Ether (6863-58-7)

Reason Code:

BEFORE

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22-Jul-2024
14:51
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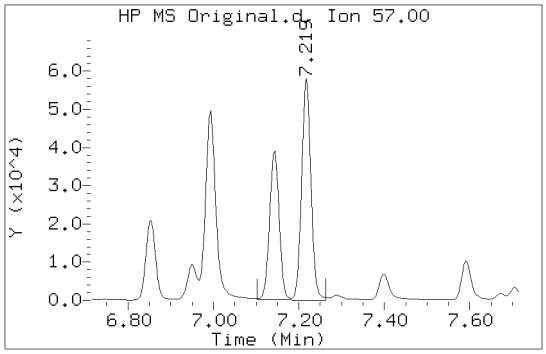

AFTER

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HEIGHT
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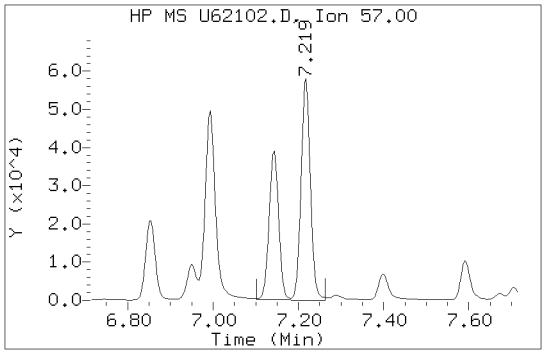
22-Jul-2024
14:51
r
patel



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62103.D Page 1
Report Date: 22-Jul-2024 14:24

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62103.D
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Inj Date : 21-JUN-2024 10:28
Operator : TS Inst ID: VOA9.i
Smp Info : VLCSW-240621;VLCSW-240621;3;;LCS
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240621.b\8260C.m
Meth Date : 22-Jul-2024 14:24 VOA9.i Quant Type: ISTD
Cal Date : 20-JUN-2024 14:15 Cal File: U62010.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: NAHSTW7014

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)	240309	50.0000	
2 Dichlorodifluoromethane	85	1.156	1.168	(0.240)	33265	19.3827	19.38
3 Chloromethane	50	1.288	1.299	(0.268)	70418	17.2855	17.28
4 Propionitrile	54	4.328	4.332	(0.900)	41554	184.835	184.83(a)
5 Vinyl Chloride	62	1.370	1.378	(0.285)	35316	16.6612	16.66
6 Bromomethane	94	1.599	1.610	(0.332)	15779	18.7533	18.75
7 Chloroethane	64	1.685	1.696	(0.350)	21085	15.1624	15.16
8 Trichlorofluoromethane	101	1.884	1.895	(0.392)	41190	17.8958	17.89
9 Acrolein	56	2.255	2.262	(0.469)	2385	28.3057	28.30
10 Acetone	43	2.397	2.405	(0.498)	20740	28.5723	28.57
11 1,1-Dichloroethene	96	2.318	2.330	(0.482)	23298	16.6189	16.61
12 Isobutyl Alcohol	43	5.280	5.284	(1.097)	78530	331.026	331.02(a)
13 Acetonitrile	39	2.660	2.671	(0.553)	27147	140.512	140.51(a)
14 Allyl Chloride	41	2.663	2.671	(0.554)	61720	13.8030	13.80(a)
15 Iodomethane	142	2.457	2.465	(0.511)	23024	44.1295	44.12
16 Acrylonitrile	53	3.057	3.065	(0.635)	17236	29.0395	29.03
17 Methylene Chloride	84	2.783	2.795	(0.579)	29839	16.3211	16.32
18 Methyl tert-butyl ether	73	3.068	3.076	(0.638)	65786	16.2037	16.20
19 Carbon Disulfide	76	2.510	2.521	(0.522)	129610	33.5486	33.54
20 trans-1,2-Dichloroethene	96	3.046	3.057	(0.633)	25863	17.2295	17.22

21 Vinyl Acetate	43	4.332	4.335 (0.900)	29806	35.3552	35.35
22 1,1-Dichloroethane	63	3.503	3.511 (0.728)	45784	15.9309	15.93

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	23 Chloroprene	53	3.597	3.608	(0.748)	37422	15.5262	15.52
	24 2-Butanone	43	4.257	4.260	(0.885)	28921	34.8154	34.81
	25 Methacrylonitrile	41	4.485	4.489	(0.932)	16231	15.9615	15.96(a)
	26 2,2-Dichloropropane	77	4.170	4.182	(0.867)	40841	18.8059	18.80
	27 cis-1,2-Dichloroethene	96	4.185	4.193	(0.870)	32267	18.3403	18.34
	28 Chloroform	83	4.564	4.572	(0.949)	55103	18.8554	18.85
	29 Bromochloromethane	128	4.463	4.467	(0.928)	16723	17.3826	17.38
$	30 Dibromofluoromethane	113	4.740	4.748	(0.985)	85812	53.7586	53.75
	31 1,1,1-Trichloroethane	97	4.736	4.740	(0.984)	43406	19.4550	19.45
	32 1,1-Dichloropropene	75	4.916	4.920	(0.886)	38525	18.6997	18.69
	33 1,2-Dichloroethane	62	5.171	5.175	(0.932)	42505	18.7050	18.70
	34 Carbon Tetrachloride	117	4.901	4.909	(0.884)	33727	19.5320	19.53
$	35 1,2-Dichloroethane-d4	65	5.093	5.096	(1.058)	101804	50.0036	50.00
*	36 1,4-Difluorobenzene	114	5.546	5.550	(1.000)	337727	50.0000	
	37 Benzene	78	5.134	5.138	(0.926)	123243	17.7312	17.73
	38 Trichloroethene	130	5.782	5.786	(1.043)	32091	19.0252	19.02
	39 Bromodichloromethane	83	6.273	6.277	(1.131)	35623	18.1335	18.13
	40 Methyl Methacrylate	41	5.820	5.820	(1.210)	11378	18.0933	18.09(a)
	41 2-Chloroethylvinyl ether	63	6.577	6.573	(1.186)	1698	43.9970	43.99(M)
	42 1,2-Dichloropropane	63	6.003	6.007	(1.082)	32613	17.7146	17.71
	43 2-Nitropropane	43	6.502	6.506	(1.351)	6298	16.5759	16.57
	44 Dibromomethane	93	6.116	6.116	(1.103)	19466	18.1146	18.11
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	58228	34.8247	34.82
	46 cis-1,3-Dichloropropene	75	6.689	6.690	(1.206)	42118	18.3504	18.35
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	303393	50.0000	
$	48 Toluene-d8	98	6.918	6.922	(0.845)	326399	55.4271	55.42(M)
	49 Ethyl Methacrylate	69	7.289	7.289	(1.314)	36887	17.1980	17.19(a)
	50 Toluene	91	6.978	6.982	(0.853)	131658	19.0591	19.05
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.297)	34255	17.9496	17.94
	52 2-Hexanone	43	7.214	7.214	(0.881)	41972	36.8196	36.81
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	24698	18.4901	18.49
	54 1,3-Dichloropropane	76	7.495	7.499	(0.916)	51274	18.2646	18.26
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	27159	19.4880	19.48
	56 Tetrachloroethene	164	7.454	7.458	(0.911)	27018	20.8981	20.89
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	27126	18.3973	18.39
	58 1-Chlorohexane	55	8.196	8.197	(1.478)	23562	17.6513	17.65
	59 Chlorobenzene	112	8.208	8.212	(1.003)	85679	19.9386	19.93
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	27809	18.7384	18.73
	61 Ethylbenzene	106	8.305	8.309	(1.015)	41432	19.3805	19.38
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	103258	40.4558	40.45
	63 o-Xylene	106	8.747	8.748	(1.069)	50924	20.2464	20.24
	64 Styrene	104	8.762	8.763	(1.071)	85462	20.3231	20.32
	66 Bromoform	173	8.916	8.920	(1.089)	16499	18.4528	18.45
	67 Isopropylbenzene	105	9.062	9.062	(1.107)	130426	20.9008	20.90
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	40235	19.2706	19.27
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	125868	54.3996	54.39
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	167540	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	37845	18.4617	18.46
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	6649	15.6834	15.68(a)
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	143077	19.7488	19.74
	74 Bromobenzene	156	9.317	9.317	(0.916)	38126	19.3690	19.36
	75 1,3,5-Trimethylbenzene	105	9.565	9.565	(0.940)	97724	18.7923	18.79

76	2-Chlorotoluene	91	9.482	9.482 (0.932)	92156	18.7964	18.79
77	4-Chlorotoluene	91	9.576	9.576 (0.941)	107677	19.3513	19.35

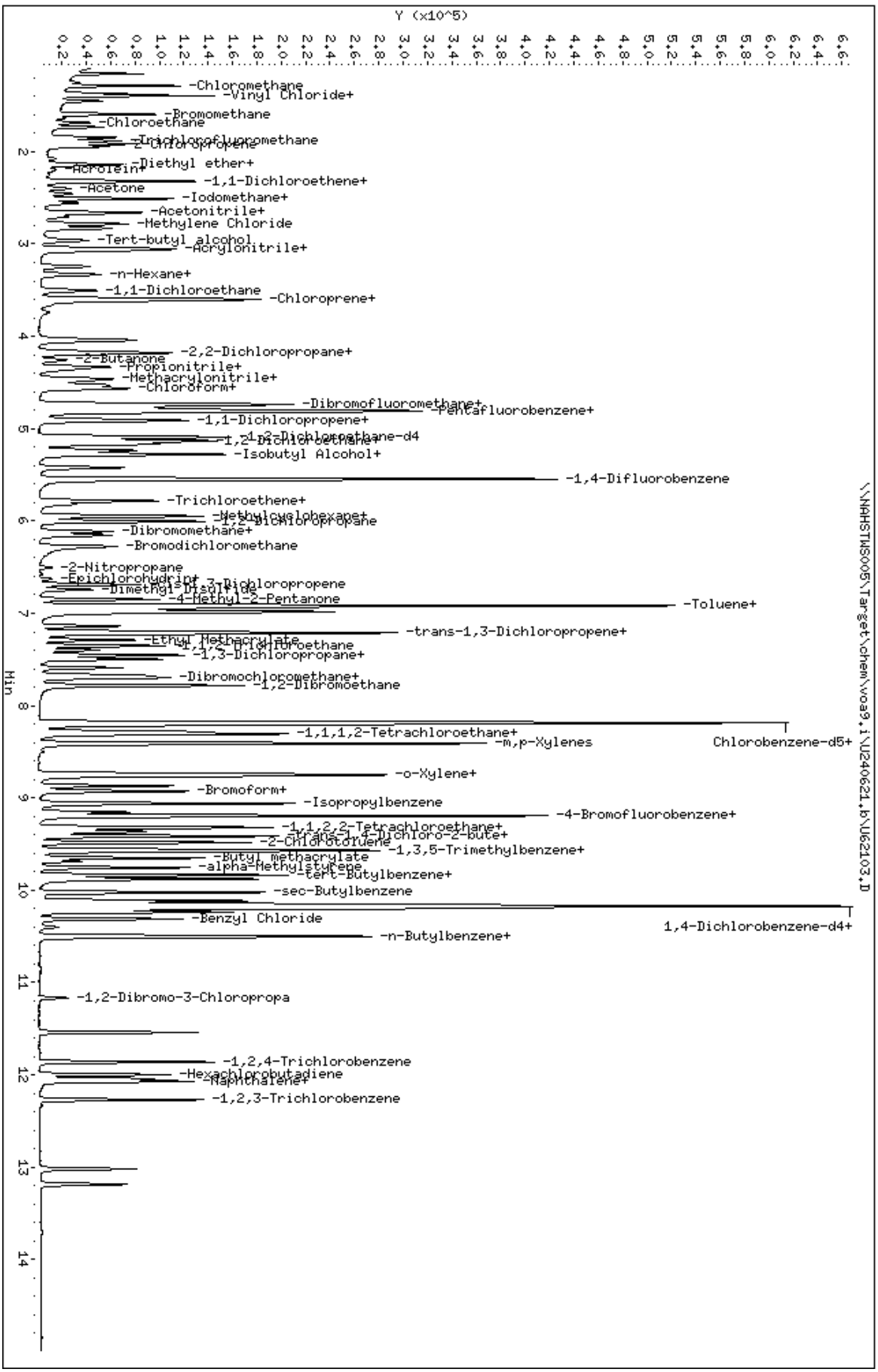
Data File: \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62103.D Page 3
Report Date: 22-Jul-2024 14:24

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
78	tert-Butylbenzene	119	9.838	9.838	(0.967)	91694	20.7661	20.76
79	1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	99018	18.5727	18.57
81	sec-Butylbenzene	105	10.022	10.022	(0.985)	120012	20.4082	20.40
82	p-Isopropyltoluene	119	10.146	10.150	(0.997)	102017	19.0585	19.05
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	67647	18.6771	18.67
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	70637	19.9941	19.99
86	Benzyl Chloride	91	10.311	10.311	(1.260)	78848	26.0690	26.06
87	n-Butylbenzene	91	10.494	10.494	(1.032)	93690	19.4602	19.46
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	66244	18.3696	18.36
89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	4902	19.6254	19.62
90	1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	43939	20.1394	20.13
91	Hexachlorobutadiene	225	12.001	12.001	(1.180)	20681	21.3780	21.37
92	Naphthalene	128	12.069	12.069	(1.186)	88031	18.5766	18.57
93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	40065	20.0556	20.05
146	Methyl acetate	43	2.705	2.712	(0.562)	20249	14.5433	14.54
138	Freon TF	101	2.322	2.334	(0.483)	22670	17.2311	17.23
141	Cyclohexane	56	4.774	4.781	(0.992)	43872	18.3345	18.33
142	Tetrahydrofuran	42	4.534	4.538	(0.942)	10560	37.1045	37.10
147	Methylcyclohexane	55	5.943	5.947	(1.072)	65204	18.1820	18.18
135	1,4-Dioxane	88	6.165	6.168	(1.281)	7194	380.178	380.17
132	n-Butanol	56	5.820	5.820	(1.210)	15740	367.827	367.82(a)
136	n-Hexane	57	3.331	3.342	(0.692)	26016	16.8841	16.88
139	Diethyl ether	59	2.135	2.142	(0.444)	18418	15.1317	15.13
148	Tert-butyl alcohol	59	2.960	2.963	(0.615)	43195	305.417	305.41
149	Isopropyl alcohol	45	2.558	2.562	(0.532)	31153	283.628	283.62
156	Diisopropyl ether	45	3.612	3.619	(0.751)	76523	13.2023	13.20
162	Butyl acrylate	55	8.732	8.733	(1.067)	51050	18.2795	18.27
164	Dicyclopentadiene	66	10.202	10.202	(1.003)	130336	17.9676	17.96
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	85973	17.9416	17.94
167	Ethanol	45	2.079	2.086	(0.432)	6217	289.291	289.29
172	tert-Butyl formate	59	5.235	5.239	(1.088)	48020	42.5640	42.56
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.301)	157609	338.391	338.39
140	1,3-Butadiene	54	1.393	1.404	(0.290)	34658	16.7957	16.79
182	Epichlorohydrin	57	6.626	6.630	(1.195)	3936	73.4990	73.49
M 94	1,2-Dichloroethylene (total)	96				58130	35.6658	35.66
M 95	Xylenes (total)	106				154182	60.0883	60.08
145	alpha-Methylstyrene	118	9.756	9.756	(0.959)	35062	19.0510	19.05
131	Methyl Acrylate	55	4.362	4.365	(0.907)	32515	16.3265	16.32
189	n-Butyl acetate	43	7.705	7.705	(0.941)	43678	18.0567	18.05
134	Cyclohexanone	55	9.152	9.152	(0.900)	29942	346.035	346.03(a)
185	Isoprene	39	2.146	2.154	(0.446)	5448	15.6143	15.61
188	Isopropyl acetate	43	5.280	5.284	(0.952)	79225	17.5430	17.54
150	Allyl alcohol	57	3.331	3.342	(0.692)	26016	337.682	337.68
194	Acetaldehyde	44	1.449	1.460	(0.301)	55287	137.630	137.62
200	Dimethyl Disulfide	94	6.742	6.746	(0.824)	17558	17.9910	17.99
133	Ethyl Acrylate	55	5.943	5.947	(1.235)	65204	17.2492	17.24
163	Butyl methacrylate	41	9.647	9.651	(0.948)	35103	20.3132	20.31
159	Propylene oxide	43	2.191	2.199	(0.455)	3901	35.5331	35.53
203	2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	31414	18.7300	18.73
204	Tetrahydrothiophene	60	7.668	7.672	(0.937)	31205	18.0992	18.09(A)
205	sec-Butyl Ether	57	7.214	7.218	(0.881)	33907	10.0024	10.00(A)
187	n-Amyl acetate	43	8.931	8.931	(1.091)	53850	20.0632	20.06

206 2-Chloropropene	41	1.914	1.925 (0.398)	47903	19.4178	19.41(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.



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Sample Info: VLCSW-240621;VLCSW-240621;3;;LCS
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: TS
Column diameter: 0.18

Page 1

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62103.D
Inj Date : 21-JUN-2024 10:28
InstruID : VOA9.i
LabSampID : VLCSW-240621

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

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22-Jul-2024
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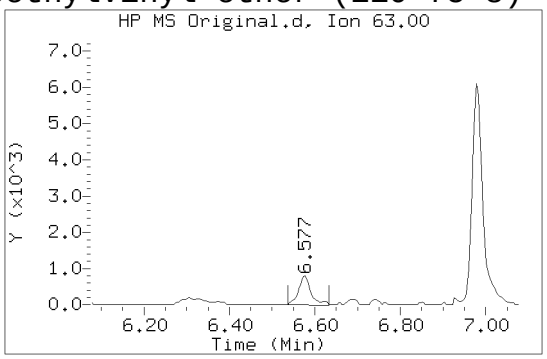

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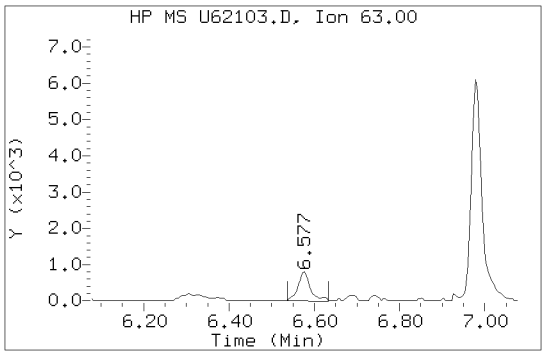

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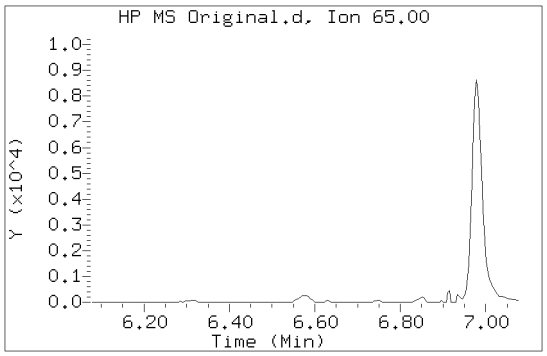

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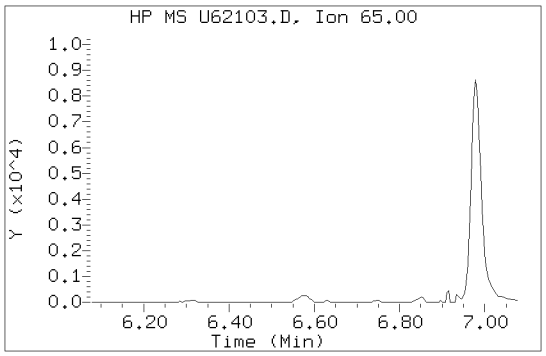

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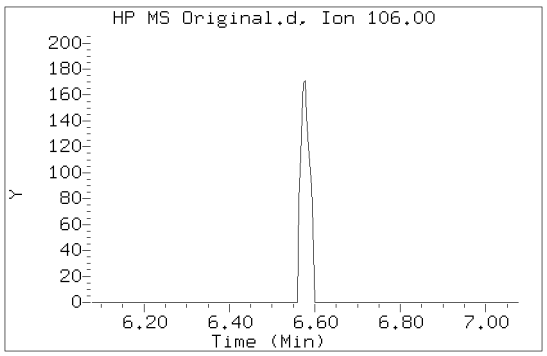

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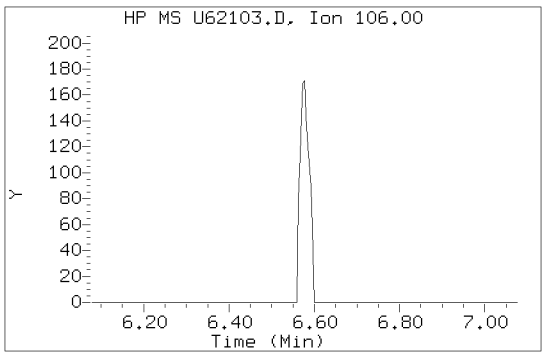

Toluene-d8 (2037-26-5)

Reason Code: MPT

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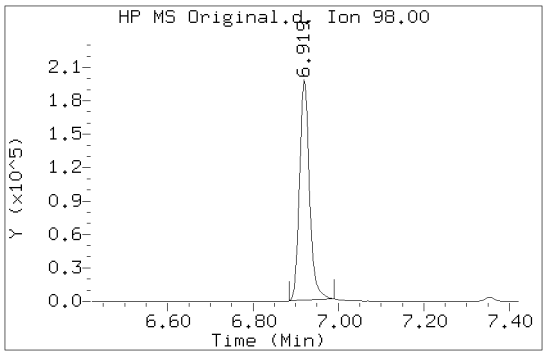

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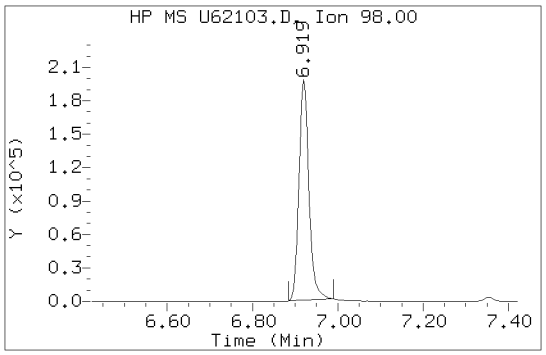

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InstruID : VOA9.i
LabSampID : VLCSW-240621

Toluene-d8 (2037-26-5)

Reason Code: MPT

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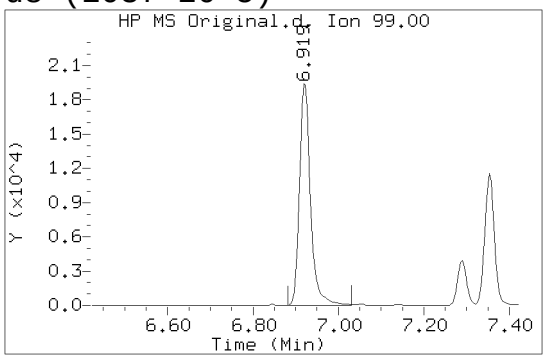

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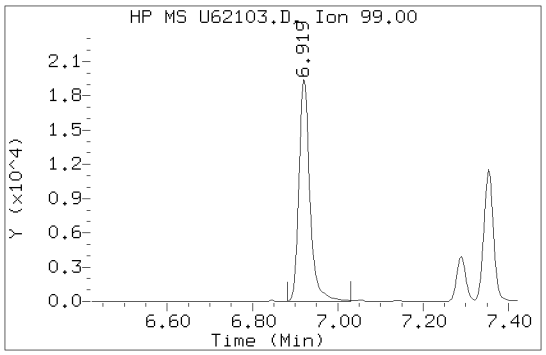

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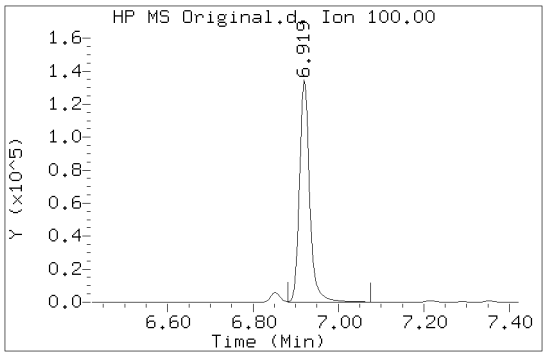

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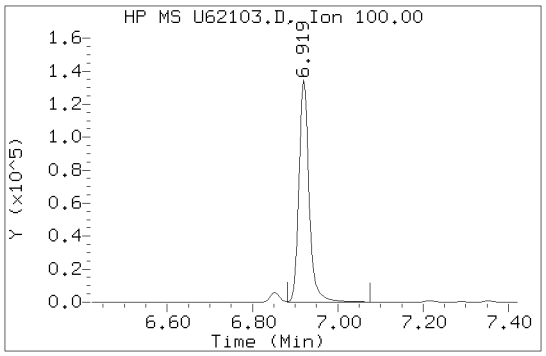

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Report Date: 22-Jul-2024 14:52

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62104.D
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Operator : TS Inst ID: VOA9.i
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Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa9.i\U240621.b\8260C.m
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Cal Date : 20-JUN-2024 14:15 Cal File: U62010.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: NAHSTW7014

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)	233940	50.0000	
2	Dichlorodifluoromethane	85	1.168	1.168	(0.243)	30833	18.4548	18.45
3	Chloromethane	50	1.299	1.299	(0.270)	66536	16.7226	16.72
4	Propionitrile	54	4.335	4.332	(0.900)	40571	185.392	185.39(a)
5	Vinyl Chloride	62	1.381	1.378	(0.287)	32871	15.9355	15.93
6	Bromomethane	94	1.610	1.610	(0.334)	15418	18.8312	18.83
7	Chloroethane	64	1.696	1.696	(0.352)	20774	15.3541	15.35
8	Trichlorofluoromethane	101	1.895	1.895	(0.394)	39610	17.6779	17.67
9	Acrolein	56	2.266	2.262	(0.471)	2348	28.7002	28.70(M)
10	Acetone	43	2.409	2.405	(0.500)	19083	26.5770	26.57
11	1,1-Dichloroethene	96	2.334	2.330	(0.485)	22085	16.1826	16.18
12	Isobutyl Alcohol	43	5.284	5.284	(1.097)	77492	335.544	335.54(a)
13	Acetonitrile	39	2.671	2.671	(0.555)	26238	139.429	139.42(aM)
14	Allyl Chloride	41	2.671	2.671	(0.555)	60683	13.9458	13.94(a)
15	Iodomethane	142	2.469	2.465	(0.513)	22999	45.2321	45.23
16	Acrylonitrile	53	3.065	3.065	(0.636)	17511	30.3284	30.32
17	Methylene Chloride	84	2.795	2.795	(0.580)	29189	16.4090	16.40
18	Methyl tert-butyl ether	73	3.080	3.076	(0.640)	65963	16.6770	16.67
19	Carbon Disulfide	76	2.521	2.521	(0.524)	122400	32.5449	32.54
20	trans-1,2-Dichloroethene	96	3.057	3.057	(0.635)	25085	17.1639	17.16

21 Vinyl Acetate	43	4.339	4.335 (0.901)	29324	35.7338	35.73
22 1,1-Dichloroethane	63	3.511	3.511 (0.729)	44083	15.7479	15.74

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62104.D Page 2
Report Date: 22-Jul-2024 14:52

	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)	36147	15.4036	15.40
	24 2-Butanone	43	4.264	4.260	(0.886)	28327	35.0278	35.02
	25 Methacrylonitrile	41	4.493	4.489	(0.933)	15567	15.7373	15.73(a)
	26 2,2-Dichloropropane	77	4.182	4.182	(0.868)	38408	18.1862	18.18
	27 cis-1,2-Dichloroethene	96	4.197	4.193	(0.872)	32309	18.8749	18.87
	28 Chloroform	83	4.572	4.572	(0.949)	52988	18.6145	18.61
	29 Bromochloromethane	128	4.467	4.467	(0.928)	16759	17.8942	17.89
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	85852	55.2479	55.24
	31 1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	41210	18.9736	18.97
	32 1,1-Dichloropropene	75	4.920	4.920	(0.887)	37763	18.8751	18.87
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	41233	18.6839	18.68
	34 Carbon Tetrachloride	117	4.909	4.909	(0.885)	32930	19.6378	19.63
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	100247	50.5793	50.57
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	327970	50.0000	
	37 Benzene	78	5.138	5.138	(0.926)	119728	17.7379	17.73
	38 Trichloroethene	130	5.786	5.786	(1.043)	30559	18.6559	18.65
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	35573	18.6468	18.64
	40 Methyl Methacrylate	41	5.824	5.820	(1.209)	10291	16.8102	16.81(a)
	41 2-Chloroethylvinyl ether	63	6.577	6.573	(1.185)	1835	47.7932	47.79(M)
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	31777	17.7740	17.77
	43 2-Nitropropane	43	6.506	6.506	(1.351)	6690	18.0870	18.08
	44 Dibromomethane	93	6.120	6.116	(1.103)	18685	17.9051	17.90
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	56977	34.6978	34.69
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	40615	18.2220	18.22
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	297960	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	323368	55.9136	55.91(M)
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	35725	17.1518	17.15(a)
	50 Toluene	91	6.982	6.982	(0.853)	127579	18.8054	18.80
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	33062	17.8533	17.85
	52 2-Hexanone	43	7.214	7.214	(0.881)	42184	37.7008	37.70
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	23725	18.0855	18.08
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	50113	18.1766	18.17
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	27434	20.0443	20.04
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	25552	20.1246	20.12
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	26591	18.3633	18.36
	58 1-Chlorohexane	55	8.197	8.197	(1.477)	24090	18.6226	18.62
	59 Chlorobenzene	112	8.208	8.212	(1.003)	82190	19.4572	19.45
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	27336	18.7556	18.75
	61 Ethylbenzene	106	8.305	8.309	(1.015)	39897	19.0027	19.00
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	99006	39.4972	39.49
	63 o-Xylene	106	8.748	8.748	(1.069)	49856	20.1832	20.18
	64 Styrene	104	8.763	8.763	(1.071)	84422	20.4419	20.44
	66 Bromoform	173	8.920	8.920	(1.090)	16196	18.4448	18.44
	67 Isopropylbenzene	105	9.062	9.062	(1.107)	123711	20.1862	20.18
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	38966	18.4667	18.46
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	123908	54.5290	54.52
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	169196	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	36935	17.8691	17.86
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	7235	17.3768	17.37(a)
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	142473	19.4730	19.47
	74 Bromobenzene	156	9.317	9.317	(0.916)	37277	18.7524	18.75
	75 1,3,5-Trimethylbenzene	105	9.565	9.565	(0.940)	95073	18.1656	18.16

76	2-Chlorotoluene	91	9.482	9.482 (0.932)	90062	18.1895	18.18
77	4-Chlorotoluene	91	9.576	9.576 (0.941)	105059	18.6960	18.69

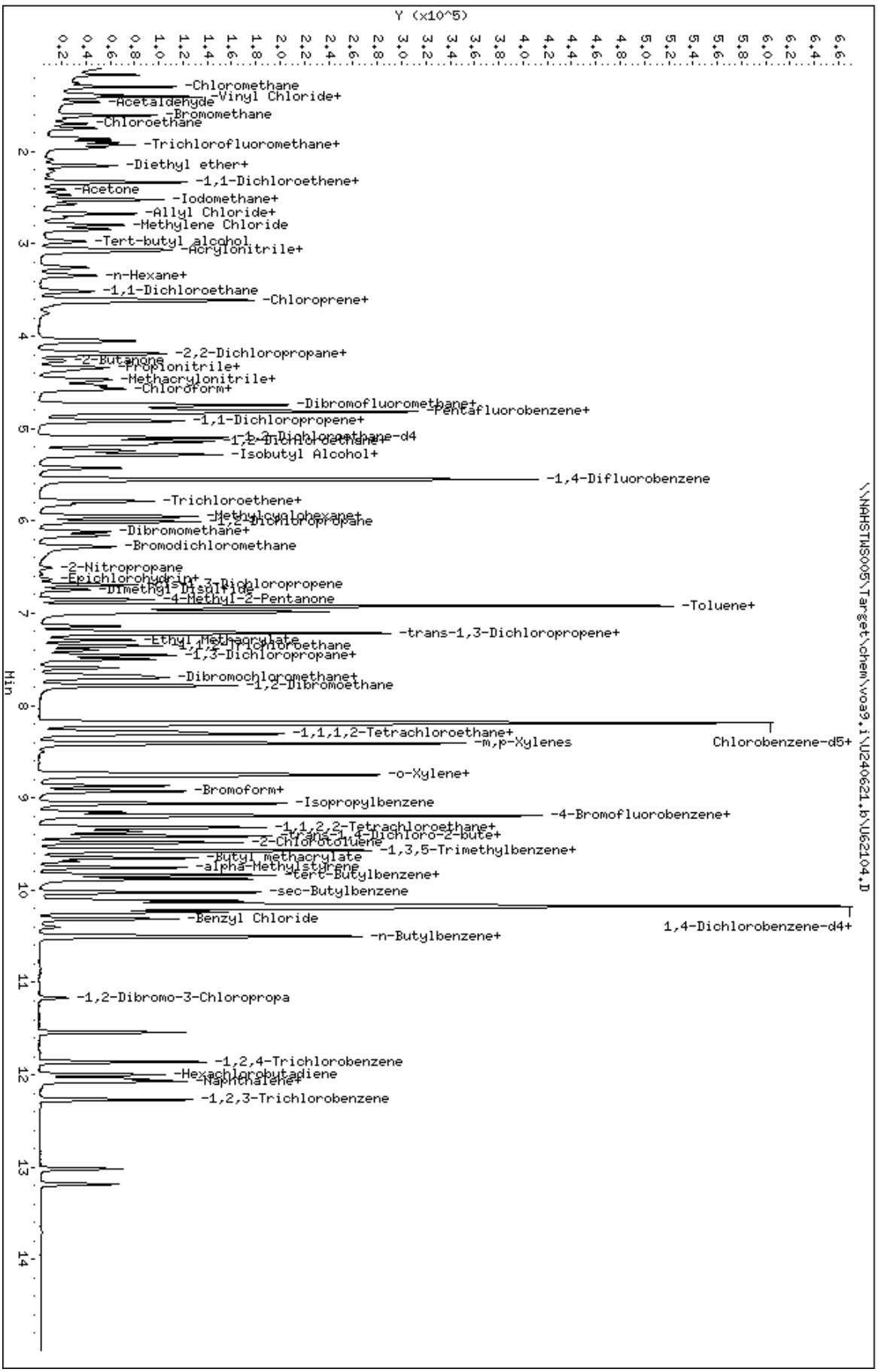
Data File: \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62104.D Page 3
Report Date: 22-Jul-2024 14:52

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
78	tert-Butylbenzene	119	9.838	9.838	(0.967)	88173	19.7732	19.77
79	1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	93995	17.4580	17.45
81	sec-Butylbenzene	105	10.022	10.022	(0.985)	115154	19.3905	19.39
82	p-Isopropyltoluene	119	10.146	10.150	(0.997)	98854	18.3536	18.35
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	65227	17.8327	17.83
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	69209	19.3793	19.37
86	Benzyl Chloride	91	10.311	10.311	(1.260)	78246	26.3985	26.39
87	n-Butylbenzene	91	10.494	10.494	(1.032)	88305	18.2529	18.25
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	64522	17.7170	17.71
89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	4877	19.3424	19.34
90	1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	42320	19.2075	19.20
91	Hexachlorobutadiene	225	12.001	12.001	(1.180)	19555	20.0162	20.01
92	Naphthalene	128	12.069	12.069	(1.186)	84129	17.6846	17.68
93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	39274	19.4673	19.46
146	Methyl acetate	43	2.716	2.712	(0.564)	19011	13.9337	13.93
138	Freon TF	101	2.334	2.334	(0.485)	21756	16.9791	16.97
141	Cyclohexane	56	4.781	4.781	(0.993)	42277	18.1392	18.13
142	Tetrahydrofuran	42	4.542	4.538	(0.943)	10958	39.5512	39.55
147	Methylcyclohexane	55	5.947	5.947	(1.072)	64536	18.5311	18.53
135	1,4-Dioxane	88	6.165	6.168	(1.280)	6984	379.031	379.03
132	n-Butanol	56	5.824	5.820	(1.209)	15112	362.816	362.81(a)
136	n-Hexane	57	3.342	3.342	(0.694)	23721	15.8138	15.81
139	Diethyl ether	59	2.146	2.142	(0.446)	17701	14.9260	14.92
148	Tert-butyl alcohol	59	2.971	2.963	(0.617)	43496	316.350	316.35
149	Isopropyl alcohol	45	2.570	2.562	(0.534)	31287	293.088	293.08
156	Diisopropyl ether	45	3.619	3.619	(0.752)	75744	13.4237	13.42
162	Butyl acrylate	55	8.733	8.733	(1.067)	50254	18.3226	18.32
164	Dicyclopentadiene	66	10.202	10.202	(1.003)	129110	17.6244	17.62
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	83288	17.2112	17.21
167	Ethanol	45	2.090	2.086	(0.434)	6031	288.194	288.19
172	tert-Butyl formate	59	5.239	5.239	(1.088)	46214	42.0877	42.08
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	156200	345.343	345.34
140	1,3-Butadiene	54	1.404	1.404	(0.292)	32575	16.2160	16.21
182	Epichlorohydrin	57	6.630	6.630	(1.195)	4126	78.8036	78.80
M 94	1,2-Dichloroethylene (total)	96				57394	36.1869	36.18
M 95	Xylenes (total)	106				148862	59.7409	59.74
145	alpha-Methylstyrene	118	9.756	9.756	(0.959)	34488	18.5815	18.58
131	Methyl Acrylate	55	4.369	4.365	(0.907)	31882	16.4445	16.44
189	n-Butyl acetate	43	7.705	7.705	(0.941)	43614	18.3590	18.35
134	Cyclohexanone	55	9.152	9.152	(0.900)	27932	319.181	319.18(a)
185	Isoprene	39	2.157	2.154	(0.448)	4975	14.6468	14.64
188	Isopropyl acetate	43	5.284	5.284	(0.952)	77492	17.6697	17.66
150	Allyl alcohol	57	3.342	3.342	(0.694)	23721	316.276	316.27
194	Acetaldehyde	44	1.464	1.460	(0.304)	51373	131.368	131.36
200	Dimethyl Disulfide	94	6.742	6.746	(0.824)	17269	18.0146	18.01
133	Ethyl Acrylate	55	5.947	5.947	(1.235)	64536	17.5373	17.53
163	Butyl methacrylate	41	9.647	9.651	(0.948)	33360	19.0798	19.07
159	Propylene oxide	43	2.202	2.199	(0.457)	3255	30.4560	30.45
203	2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	29225	17.3779	17.37
204	Tetrahydrothiophene	60	7.672	7.672	(0.937)	30618	18.0825	18.08(A)
205	sec-Butyl Ether	57	7.214	7.218	(0.881)	34940	10.4951	10.49(A)
187	n-Amyl acetate	43	8.931	8.931	(1.091)	50902	19.3107	19.31

206 2-Chloropropene	41	1.925	1.925 (0.400)	45500	18.9459	18.94(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.



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Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: TS
Column diameter: 0.18

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LabSampID : VLCSDW-240621

Acrolein (107-02-8)

Reason Code:

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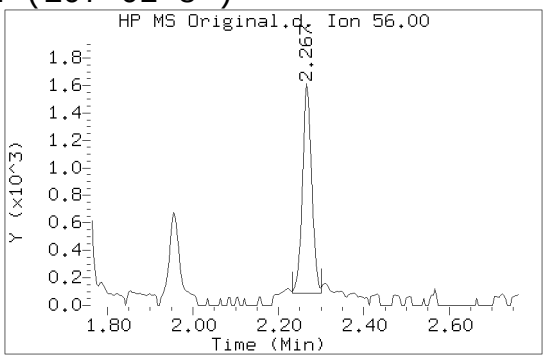

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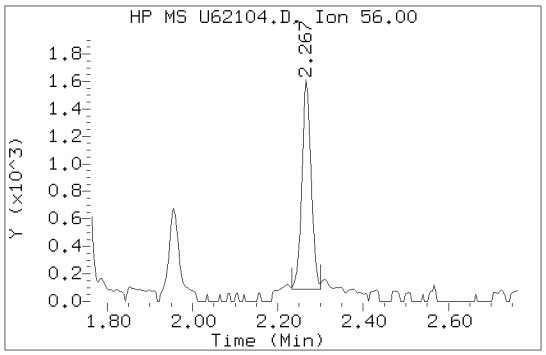

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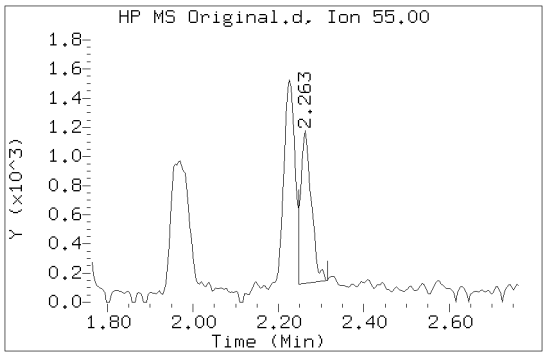

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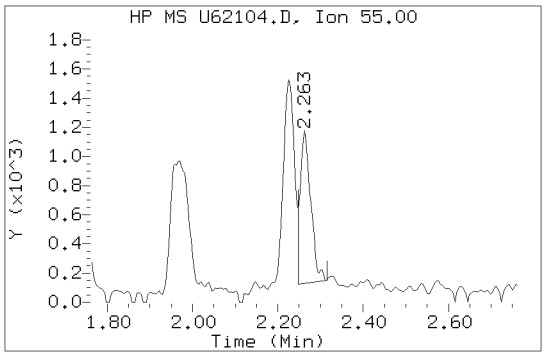

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

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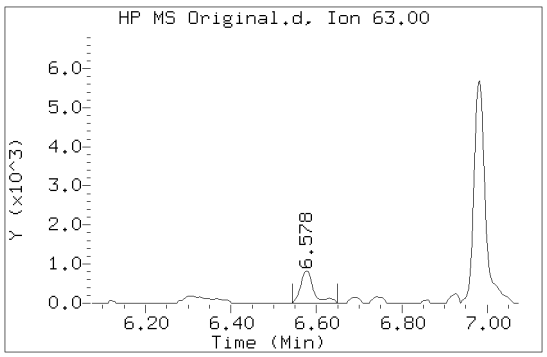

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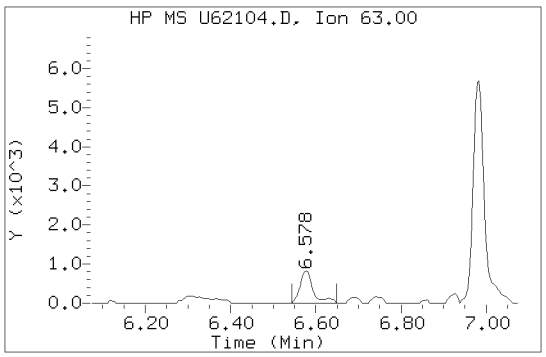

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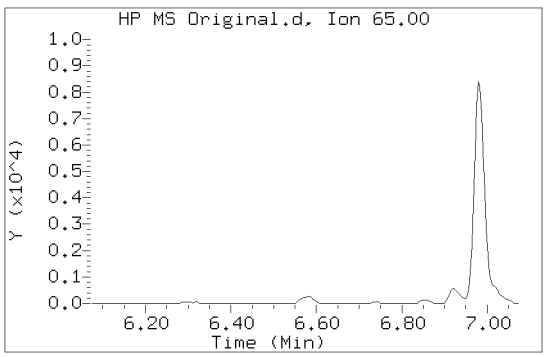

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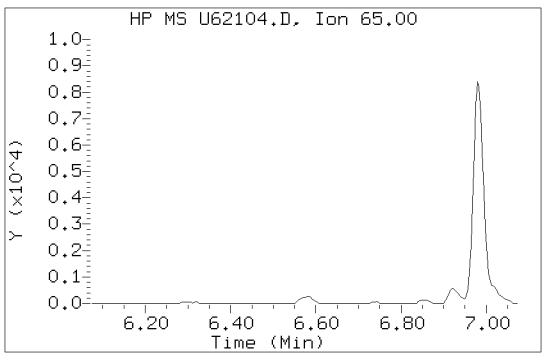

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LabSampID : VLCSDW-240621

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

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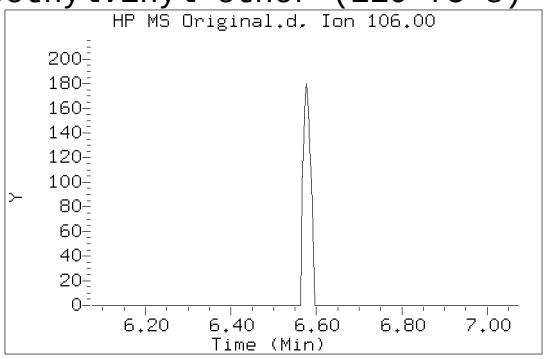

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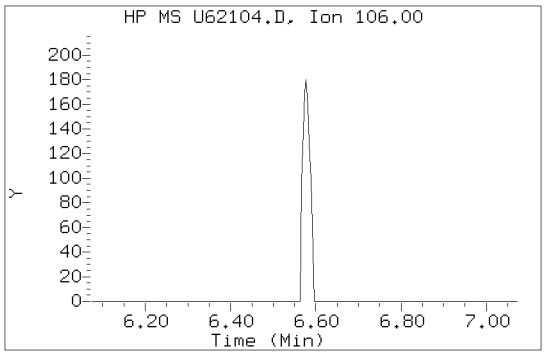

Acetonitrile (75-05-8)

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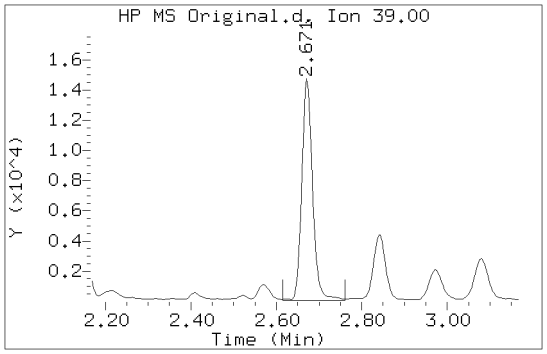

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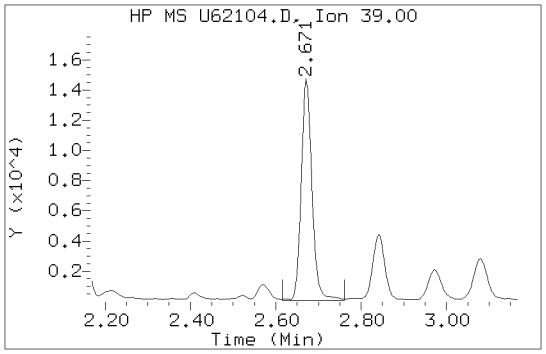

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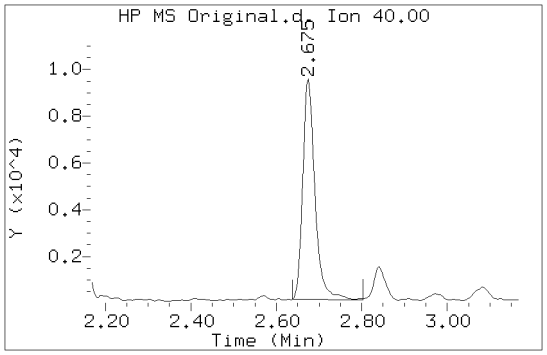

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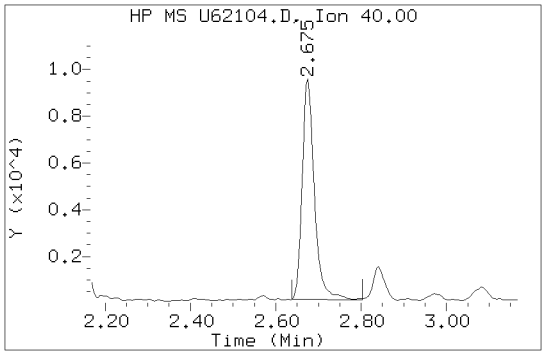

Toluene-d8 (2037-26-5)

Reason Code: MPT

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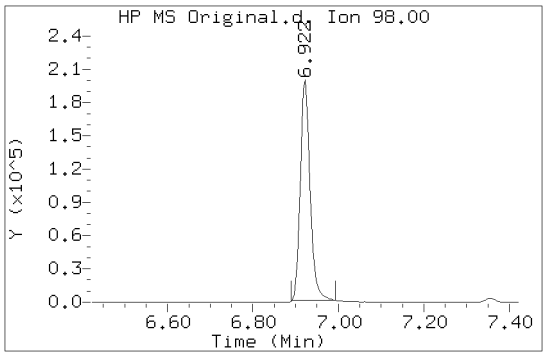

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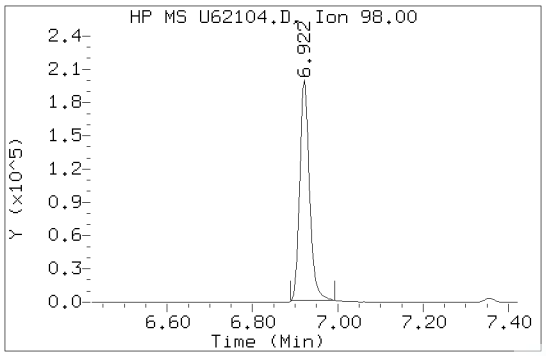

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Toluene-d8 (2037-26-5)

Reason Code: MPT

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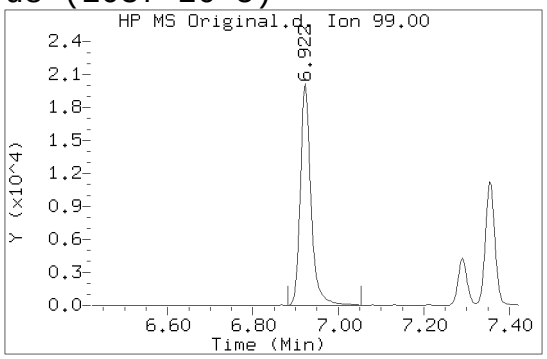

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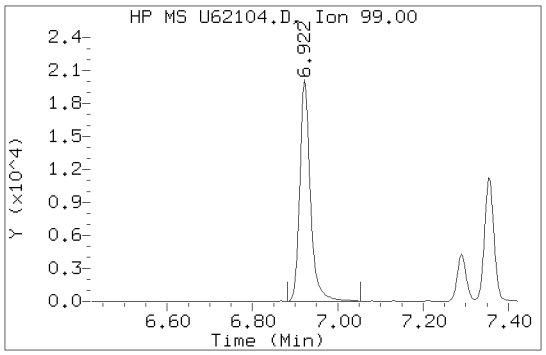

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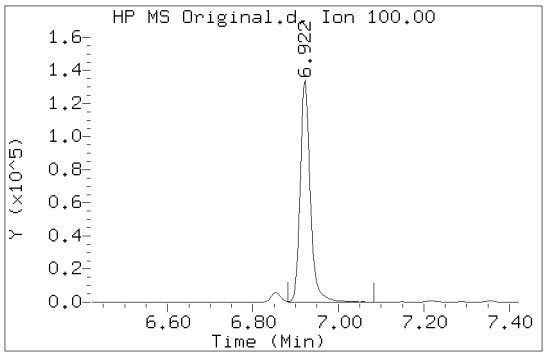

AFTER

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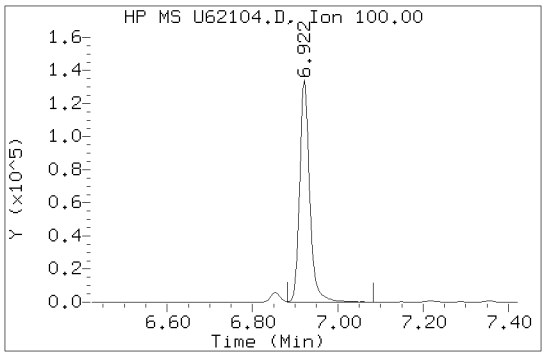

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62106.D Page 1
Report Date: 22-Jul-2024 14:24

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62106.D
Lab Smp Id: VBLKW-240621 Client Smp ID: VBLKW-240621
Inj Date : 21-JUN-2024 11:32
Operator : TS Inst ID: VOA9.i
Smp Info : VBLKW-240621;VBLKW-240621;3;;BLANK
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240621.b\8260C.m
Meth Date : 22-Jul-2024 14:24 VOA9.i Quant Type: ISTD
Cal Date : 20-JUN-2024 14:15 Cal File: U62010.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: NAHSTW7014

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)	231770	50.0000	
$ 30 Dibromofluoromethane	113	4.740	4.748	(0.985)	83877	54.4823	54.48
$ 35 1,2-Dichloroethane-d4	65	5.092	5.096	(1.058)	102337	52.1173	52.11
* 36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	332936	50.0000	
* 47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	298711	50.0000	
$ 48 Toluene-d8	98	6.918	6.922	(0.845)	319964	55.1860	55.18(M)
$ 69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	115704	50.7906	50.79
* 70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	158104	50.0000	

QC Flag Legend

M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62106.D
Date : 21-JUN-2024 11:32
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Sample Info: VBLKW-240621;VBLKW-240621;3;;BLANK
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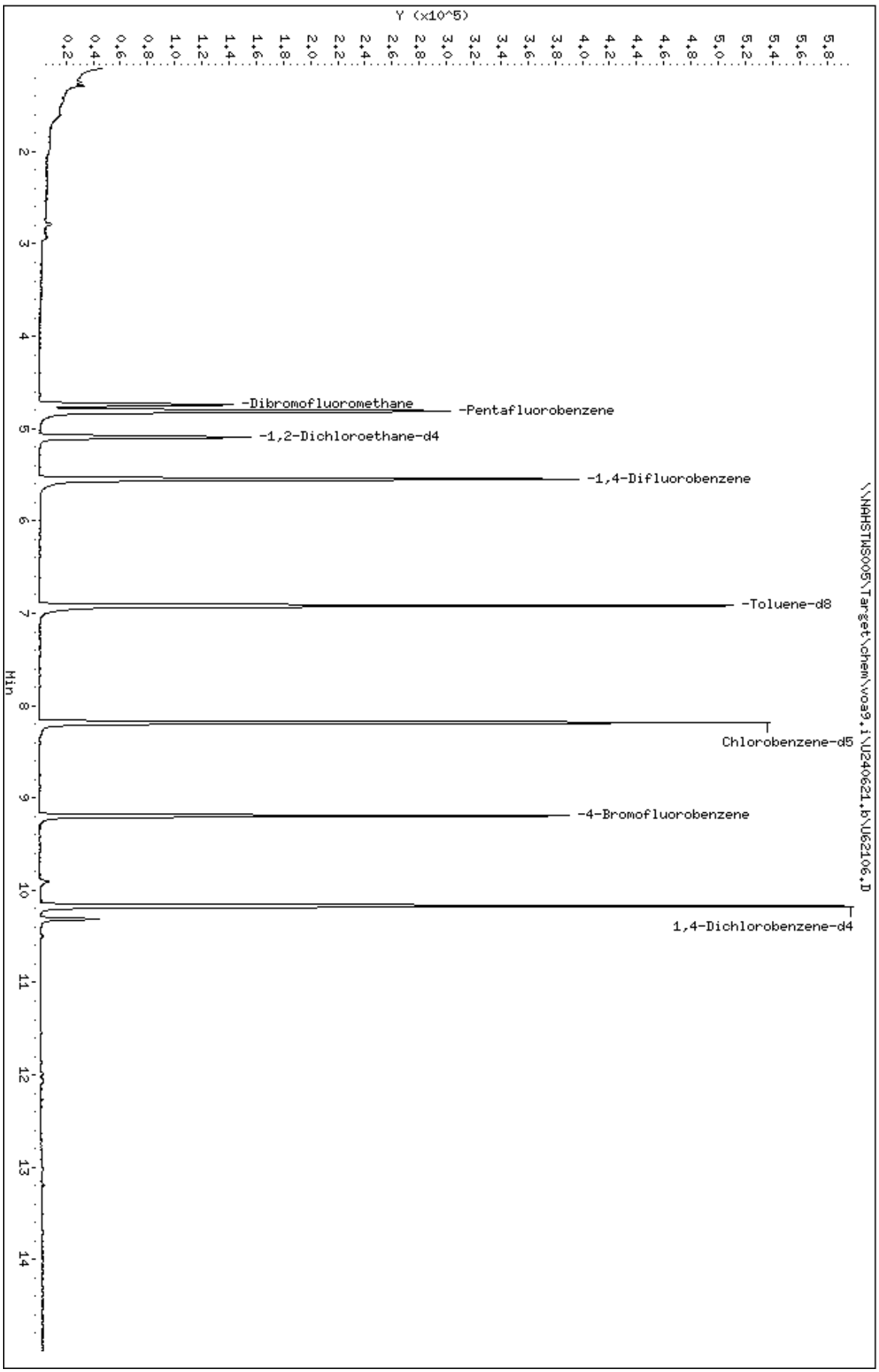
Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18



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Inj Date : 21-JUN-2024 11:32
InstruID : VOA9.i
LabSampID : VBLKW-240621

Toluene-d8 (2037-26-5)

Reason Code:

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22-Jul-2024
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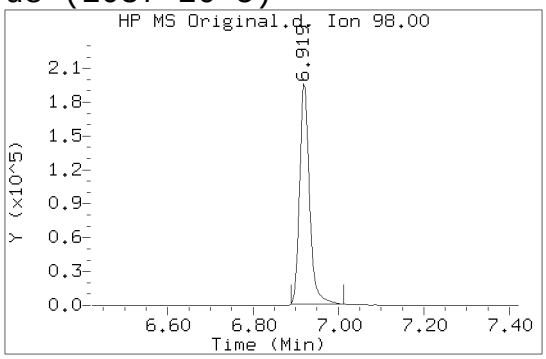

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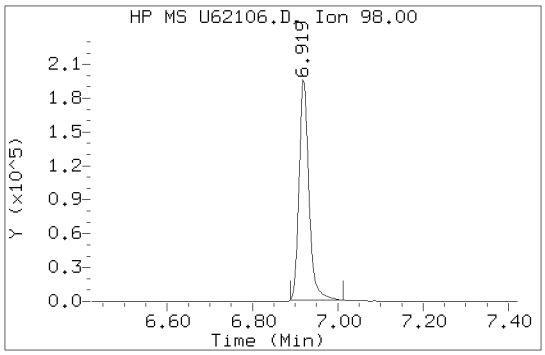

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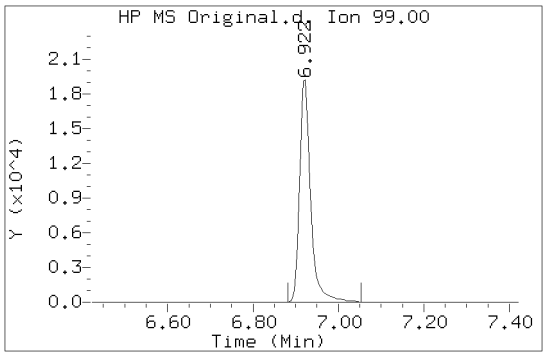

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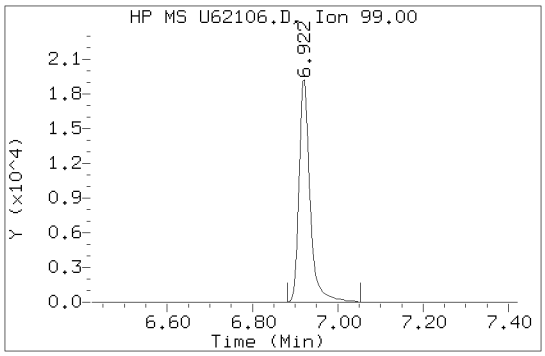

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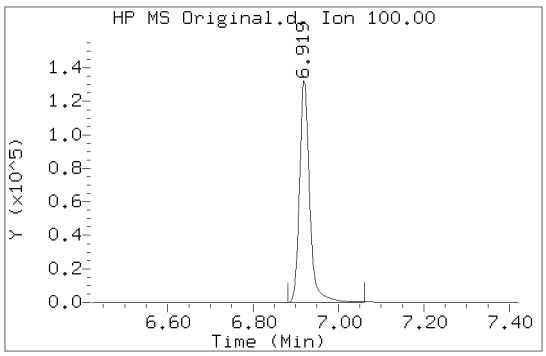

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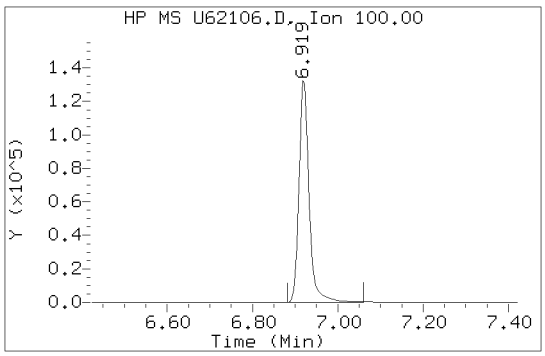

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62117.D Page 1
Report Date: 22-Jul-2024 14:24

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62117.D
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Inj Date : 21-JUN-2024 15:34
Operator : TS Inst ID: VOA9.i
Smp Info : HS24060747-08MS;HS24060747-08MS;3;;MS
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240621.b\8260C.m
Meth Date : 22-Jul-2024 14:24 VOA9.i Quant Type: ISTD
Cal Date : 20-JUN-2024 14:15 Cal File: U62010.D
Als bottle: 16 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7014

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)	231811	50.0000	
2 Dichlorodifluoromethane	85	1.160	1.168	(0.241)	31918	19.2797	19.27
3 Chloromethane	50	1.292	1.299	(0.268)	79755	20.6310	20.63
4 Propionitrile	54	4.332	4.332	(0.900)	31997	146.351	146.35(a)
5 Vinyl Chloride	62	1.374	1.378	(0.286)	34129	16.6912	16.69
6 Bromomethane	94	1.599	1.610	(0.332)	13151	15.9056	15.90
7 Chloroethane	64	1.689	1.696	(0.351)	20600	15.3658	15.36
8 Trichlorofluoromethane	101	1.888	1.895	(0.392)	41568	18.7221	18.72
9 Acrolein	56	2.259	2.262	(0.469)	1676	18.7823	18.78(a)
10 Acetone	43	2.401	2.405	(0.499)	14867	19.2262	19.22
11 1,1-Dichloroethene	96	2.326	2.330	(0.484)	22681	16.7719	16.77
12 Isobutyl Alcohol	43	5.280	5.284	(1.097)	66272	289.596	289.59(a)
13 Acetonitrile	39	2.664	2.671	(0.554)	22552	119.557	119.55(a)
14 Allyl Chloride	41	2.664	2.671	(0.554)	48563	11.1623	11.16(a)
15 Iodomethane	142	2.457	2.465	(0.511)	9940	20.3224	20.32
16 Acrylonitrile	53	3.057	3.065	(0.635)	14050	24.4603	24.46
17 Methylene Chloride	84	2.787	2.795	(0.579)	26214	14.7042	14.70
18 Methyl tert-butyl ether	73	3.072	3.076	(0.639)	51634	13.2624	13.26
19 Carbon Disulfide	76	2.514	2.521	(0.522)	120840	32.4252	32.42
20 trans-1,2-Dichloroethene	96	3.050	3.057	(0.634)	24343	16.7963	16.79

21 Vinyl Acetate	43	4.335	4.335 (0.901)	25732	31.6081	31.60
22 1,1-Dichloroethane	63	3.503	3.511 (0.728)	43738	15.7692	15.76

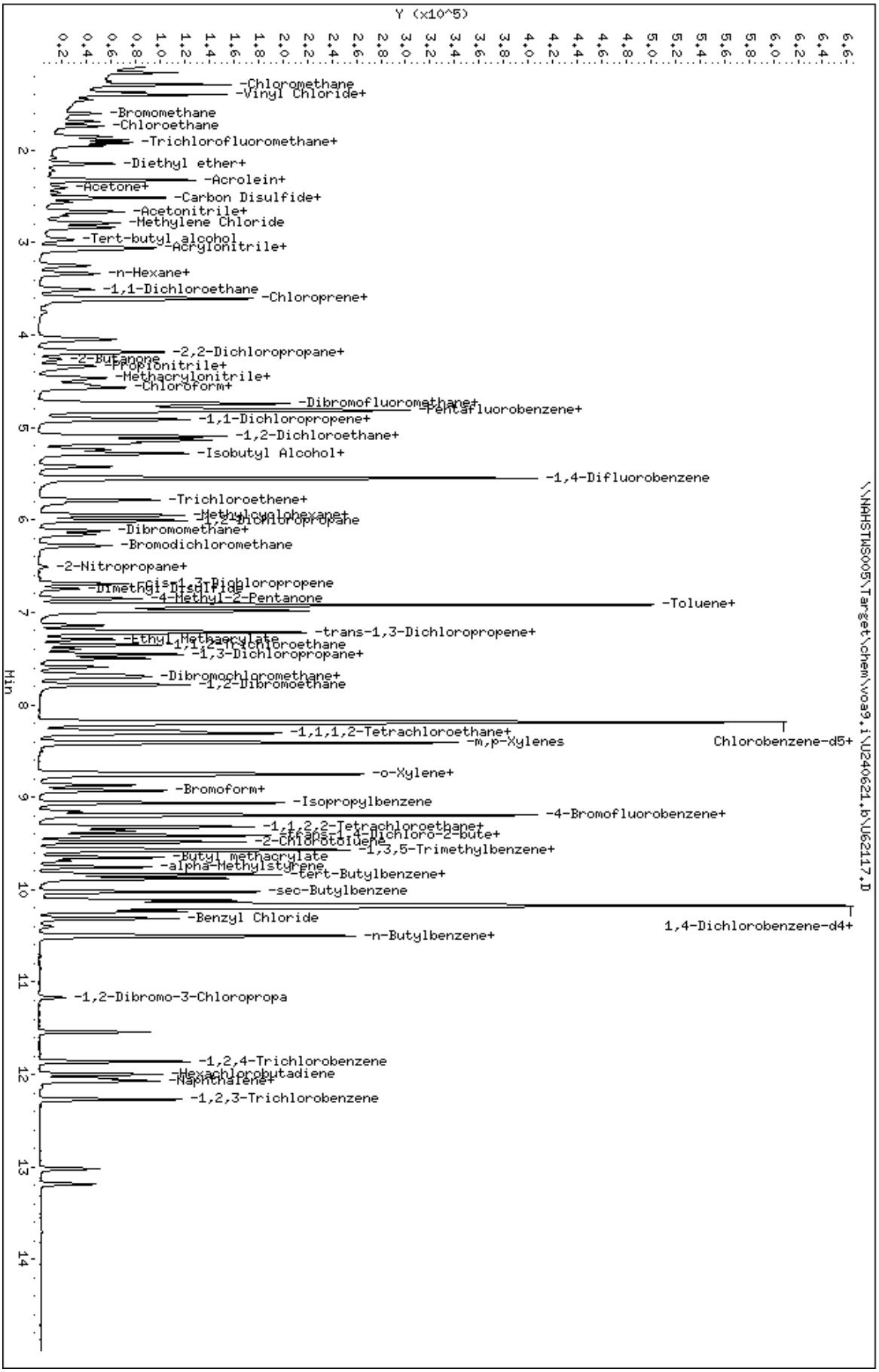
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	23 Chloroprene	53	3.601	3.608	(0.748)	39013	16.8001	16.80
	24 2-Butanone	43	4.260	4.260	(0.885)	24504	30.5973	30.59
	25 Methacrylonitrile	41	4.489	4.489	(0.933)	12887	13.2815	13.28(a)
	26 2,2-Dichloropropane	77	4.174	4.182	(0.868)	38032	18.1739	18.17
	27 cis-1,2-Dichloroethene	96	4.189	4.193	(0.871)	30944	18.2309	18.23
	28 Chloroform	83	4.568	4.572	(0.949)	52926	18.7705	18.77
	29 Bromochloromethane	128	4.463	4.467	(0.928)	15608	16.8183	16.81
$	30 Dibromofluoromethane	113	4.744	4.748	(0.986)	83044	53.9317	53.93
	31 1,1,1-Trichloroethane	97	4.737	4.740	(0.984)	42239	19.6260	19.62
	32 1,1-Dichloropropene	75	4.916	4.920	(0.886)	39107	19.5740	19.57
	33 1,2-Dichloroethane	62	5.171	5.175	(0.932)	39337	17.7983	17.79
	34 Carbon Tetrachloride	117	4.905	4.909	(0.884)	33602	20.0664	20.06
$	35 1,2-Dichloroethane-d4	65	5.093	5.096	(1.058)	97612	49.7022	49.70
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	327515	50.0000	
	37 Benzene	78	5.134	5.138	(0.925)	118697	17.6096	17.60
	38 Trichloroethene	130	5.786	5.786	(1.043)	31641	19.3433	19.34
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	33928	17.8092	17.80
	40 Methyl Methacrylate	41	5.824	5.820	(1.210)	7847	12.9357	12.93(a)
	41 2-Chloroethylvinyl ether	63	6.566	6.573	(1.183)	559	21.2211	21.22(M)
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	30597	17.1378	17.13
	43 2-Nitropropane	43	6.506	6.506	(1.352)	4377	11.9423	11.94
	44 Dibromomethane	93	6.116	6.116	(1.102)	18056	17.3264	17.32
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	50275	30.5644	30.56
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	37321	16.7674	16.76
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	298467	50.0000	
$	48 Toluene-d8	98	6.918	6.922	(0.845)	322658	55.6961	55.69(M)
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	28720	13.8078	13.80(a)
	50 Toluene	91	6.978	6.982	(0.853)	126986	18.6862	18.68
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	30454	16.6395	16.63
	52 2-Hexanone	43	7.214	7.214	(0.881)	31551	27.9280	27.92
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	22742	17.3067	17.30
	54 1,3-Dichloropropane	76	7.496	7.499	(0.916)	46642	16.8889	16.88
	55 Dibromochloromethane	129	7.691	7.690	(0.940)	25281	18.4399	18.43
	56 Tetrachloroethene	164	7.454	7.458	(0.911)	26715	21.0048	21.00
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	25116	17.3152	17.31
	58 1-Chlorohexane	55	8.193	8.197	(1.476)	22967	17.7458	17.74
	59 Chlorobenzene	112	8.208	8.212	(1.003)	81232	19.1873	19.18
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	26417	18.0943	18.09
	61 Ethylbenzene	106	8.305	8.309	(1.015)	40119	19.0760	19.07
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	97220	38.7188	38.71
	63 o-Xylene	106	8.748	8.748	(1.069)	47803	19.3192	19.31
	64 Styrene	104	8.763	8.763	(1.071)	73945	17.8746	17.87
	66 Bromoform	173	8.916	8.920	(1.089)	14873	17.0055	17.00
	67 Isopropylbenzene	105	9.063	9.062	(1.107)	124344	20.2550	20.25
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	36620	17.2482	17.24
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	120422	52.9048	52.90
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	170034	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	33095	16.0216	16.02
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	6493	15.5682	15.56(a)
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	136080	18.5075	18.50
	74 Bromobenzene	156	9.317	9.317	(0.916)	35124	17.5822	17.58
	75 1,3,5-Trimethylbenzene	105	9.565	9.565	(0.940)	84199	16.2095	16.20

76	2-Chlorotoluene	91	9.482	9.482 (0.932)	89227	17.9320	17.93
77	4-Chlorotoluene	91	9.576	9.576 (0.941)	101042	17.8926	17.89

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
78	tert-Butylbenzene	119	9.839	9.838	(0.967)	89876	20.0558	20.05
79	1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	82889	15.3193	15.31
81	sec-Butylbenzene	105	10.022	10.022	(0.985)	114675	19.2146	19.21
82	p-Isopropyltoluene	119	10.146	10.150	(0.997)	90754	16.9091	16.90
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	64132	17.4469	17.44
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	66277	18.4372	18.43
86	Benzyl Chloride	91	10.311	10.311	(1.260)	74746	24.9231	24.92
87	n-Butylbenzene	91	10.495	10.494	(1.032)	85278	17.5935	17.59
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	63338	17.3061	17.30
89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	4385	17.3600	17.35
90	1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	37912	17.1220	17.12
91	Hexachlorobutadiene	225	12.002	12.001	(1.180)	18941	19.2922	19.29
92	Naphthalene	128	12.069	12.069	(1.186)	67802	14.5703	14.57
93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	35572	17.5454	17.54
146	Methyl acetate	43	2.709	2.712	(0.563)	16474	11.8600	11.86
138	Freon TF	101	2.326	2.334	(0.484)	22874	18.0478	18.04
141	Cyclohexane	56	4.778	4.781	(0.993)	42989	18.6393	18.63
142	Tetrahydrofuran	42	4.538	4.538	(0.943)	7500	27.3187	27.31
147	Methylcyclohexane	55	5.947	5.947	(1.072)	53964	15.5170	15.51
135	1,4-Dioxane	88	6.165	6.168	(1.281)	5402	287.901	287.90
132	n-Butanol	56	5.824	5.820	(1.210)	10489	254.757	254.75(a)
136	n-Hexane	57	3.335	3.342	(0.693)	24824	16.7011	16.70
139	Diethyl ether	59	2.139	2.142	(0.445)	13968	11.6847	11.68
148	Tert-butyl alcohol	59	2.967	2.963	(0.617)	32243	233.490	233.49
149	Isopropyl alcohol	45	2.562	2.562	(0.533)	23091	214.384	214.38
156	Diisopropyl ether	45	3.616	3.619	(0.751)	71468	12.7822	12.78
162	Butyl acrylate	55	8.733	8.733	(1.067)	38668	14.0744	14.07
164	Dicyclopentadiene	66	10.202	10.202	(1.003)	105774	14.3677	14.36
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	63338	13.0241	13.02
167	Ethanol	45	2.082	2.086	(0.433)	4907	232.426	232.42
172	tert-Butyl formate	59	5.239	5.239	(1.089)	35219	32.4489	32.44
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	112738	249.599	249.59
140	1,3-Butadiene	54	1.396	1.404	(0.290)	32823	16.4896	16.48
M 94	1,2-Dichloroethylene (total)	96				55287	35.1513	35.15
M 95	Xylenes (total)	106				145023	58.2811	58.28
145	alpha-Methylstyrene	118	9.756	9.756	(0.959)	25756	14.0458	14.04
131	Methyl Acrylate	55	4.365	4.365	(0.907)	24720	12.8675	12.86
189	n-Butyl acetate	43	7.706	7.705	(0.941)	37689	15.8380	15.83
134	Cyclohexanone	55	9.153	9.152	(0.900)	13774	152.848	152.84(a)
185	Isoprene	39	2.146	2.154	(0.446)	5253	15.6073	15.60
188	Isopropyl acetate	43	5.280	5.284	(0.951)	66921	15.2805	15.28
150	Allyl alcohol	57	3.335	3.342	(0.693)	24824	334.022	334.02
200	Dimethyl Disulfide	94	6.742	6.746	(0.824)	12927	13.9159	13.91
133	Ethyl Acrylate	55	5.947	5.947	(1.236)	53964	14.7991	14.79
163	Butyl methacrylate	41	9.647	9.651	(0.948)	26225	14.7926	14.79
203	2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	20279	12.4479	12.44
204	Tetrahydrothiophene	60	7.672	7.672	(0.937)	22056	13.0038	13.00(A)
205	sec-Butyl Ether	57	7.214	7.218	(0.881)	25877	7.75961	7.75(A)
187	n-Amyl acetate	43	8.931	8.931	(1.091)	43129	16.3340	16.33
206	2-Chloropropene	41	1.918	1.925	(0.399)	41164	17.2978	17.29(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.



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Date : 21-JUN-2024 15:34
Client ID: HS24060747-08HS
Sample Info: HS24060747-08HS;HS24060747-08HS;3;;MS
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: TS
Column diameter: 0.18

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Inj Date : 21-JUN-2024 15:34
InstruID : VOA9.i
LabSampID : HS24060747-08MS

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

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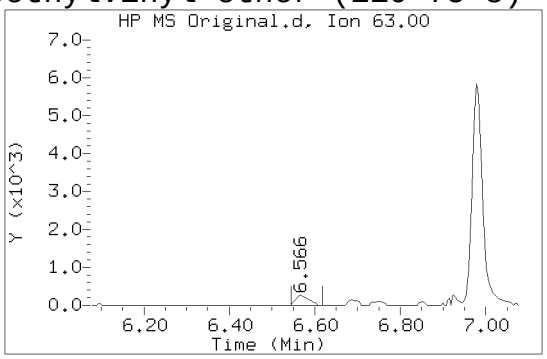

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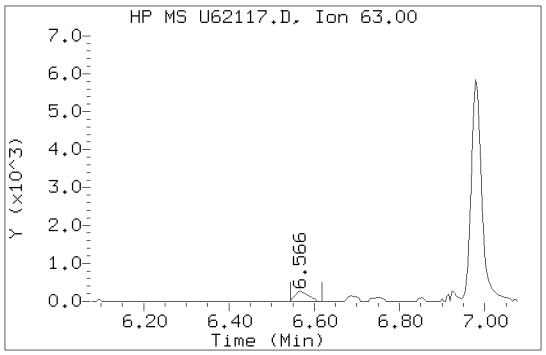

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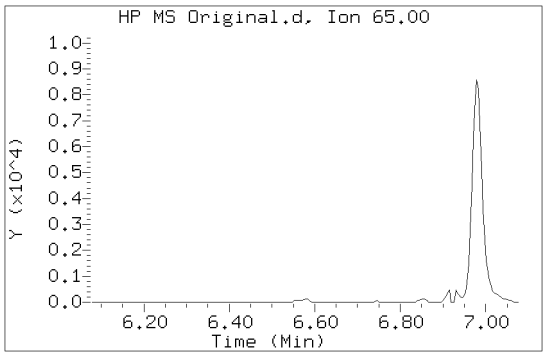

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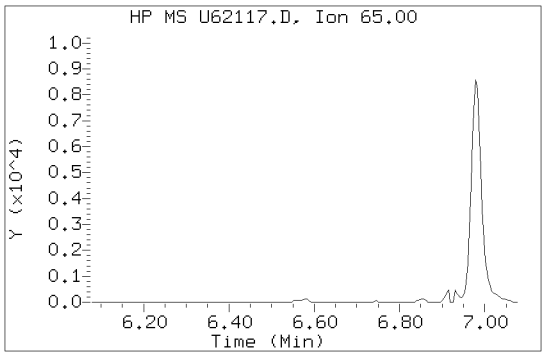

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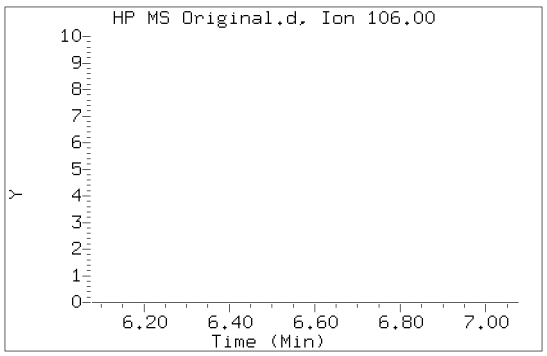

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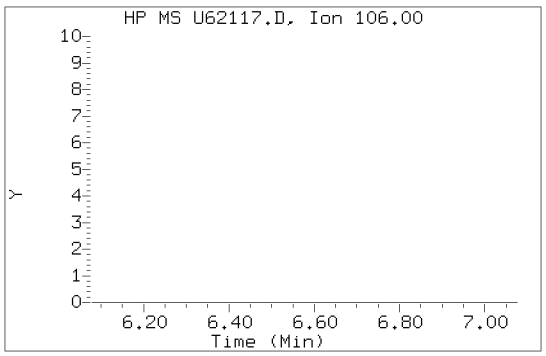

Toluene-d8 (2037-26-5)

Reason Code: MPT

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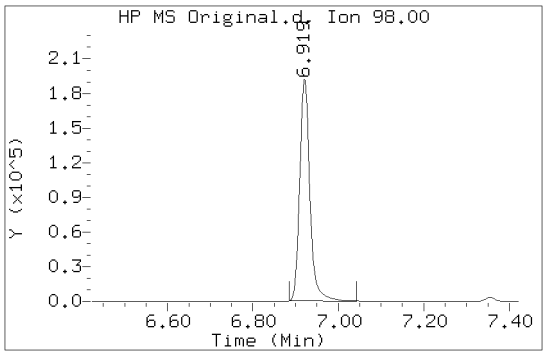

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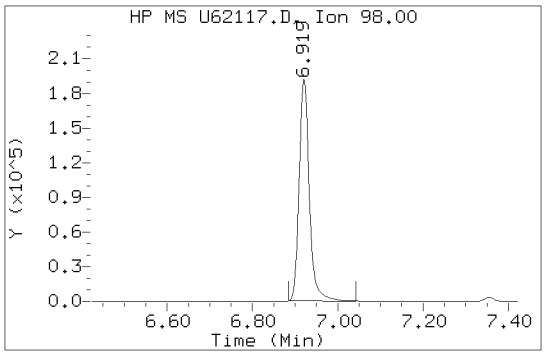

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Inj Date : 21-JUN-2024 15:34
InstruID : VOA9.i
LabSampID : HS24060747-08MS

Toluene-d8 (2037-26-5)

Reason Code: MPT

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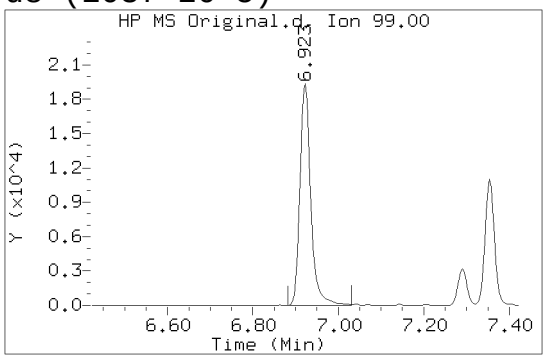

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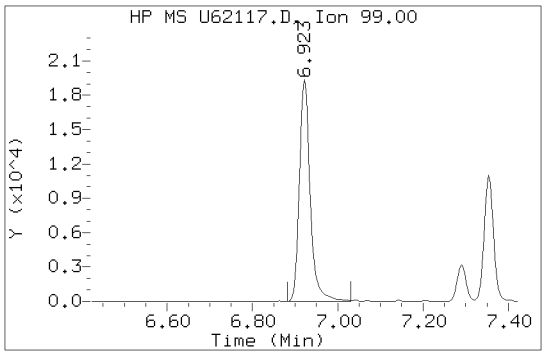

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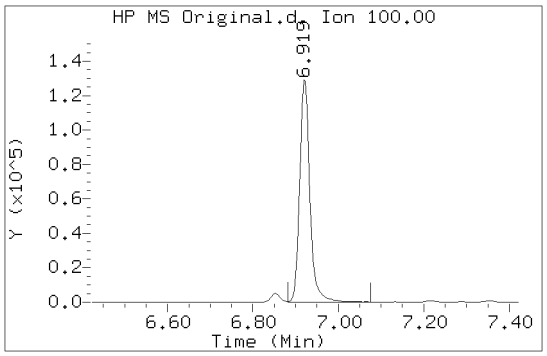

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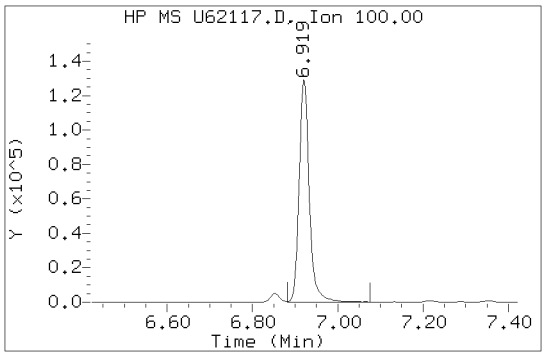

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62118.D Page 1
Report Date: 22-Jul-2024 14:24

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62118.D
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Operator : TS Inst ID: VOA9.i
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Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240621.b\8260C.m
Meth Date : 22-Jul-2024 14:24 VOA9.i Quant Type: ISTD
Cal Date : 20-JUN-2024 14:15 Cal File: U62010.D
Als bottle: 16 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7014

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)	233942	50.0000	
2 Dichlorodifluoromethane	85	1.171	1.168	(0.243)	31989	19.1465	19.14
3 Chloromethane	50	1.303	1.299	(0.270)	76978	19.6450	19.64
4 Propionitrile	54	4.339	4.332	(0.900)	31774	143.909	143.90(a)
5 Vinyl Chloride	62	1.385	1.378	(0.288)	33535	16.2547	16.25
6 Bromomethane	94	1.614	1.610	(0.335)	13741	16.5458	16.54
7 Chloroethane	64	1.704	1.696	(0.354)	20019	14.7701	14.77
8 Trichlorofluoromethane	101	1.899	1.895	(0.394)	39817	17.7701	17.77
9 Acrolein	56	2.270	2.262	(0.471)	1660	18.3061	18.30(a)
10 Acetone	43	2.416	2.405	(0.501)	14293	17.9457	17.94
11 1,1-Dichloroethene	96	2.337	2.330	(0.485)	21725	15.9186	15.91
12 Isobutyl Alcohol	43	5.284	5.284	(1.096)	64894	280.992	280.99(a)
13 Acetonitrile	39	2.675	2.671	(0.555)	21484	112.273	112.27(a)
14 Allyl Chloride	41	2.675	2.671	(0.555)	48809	11.1145	11.11(a)
15 Iodomethane	142	2.468	2.465	(0.512)	10084	20.4255	20.42
16 Acrylonitrile	53	3.072	3.065	(0.638)	13561	23.3716	23.37
17 Methylene Chloride	84	2.798	2.795	(0.581)	25478	14.0960	14.09
18 Methyl tert-butyl ether	73	3.083	3.076	(0.640)	50970	12.9817	12.98
19 Carbon Disulfide	76	2.525	2.521	(0.524)	118973	31.6334	31.63
20 trans-1,2-Dichloroethene	96	3.061	3.057	(0.635)	23784	16.2412	16.24

21 Vinyl Acetate	43	4.343	4.335 (0.901)	25158	30.6115	30.61
22 1,1-Dichloroethane	63	3.514	3.511 (0.729)	42230	15.0524	15.05

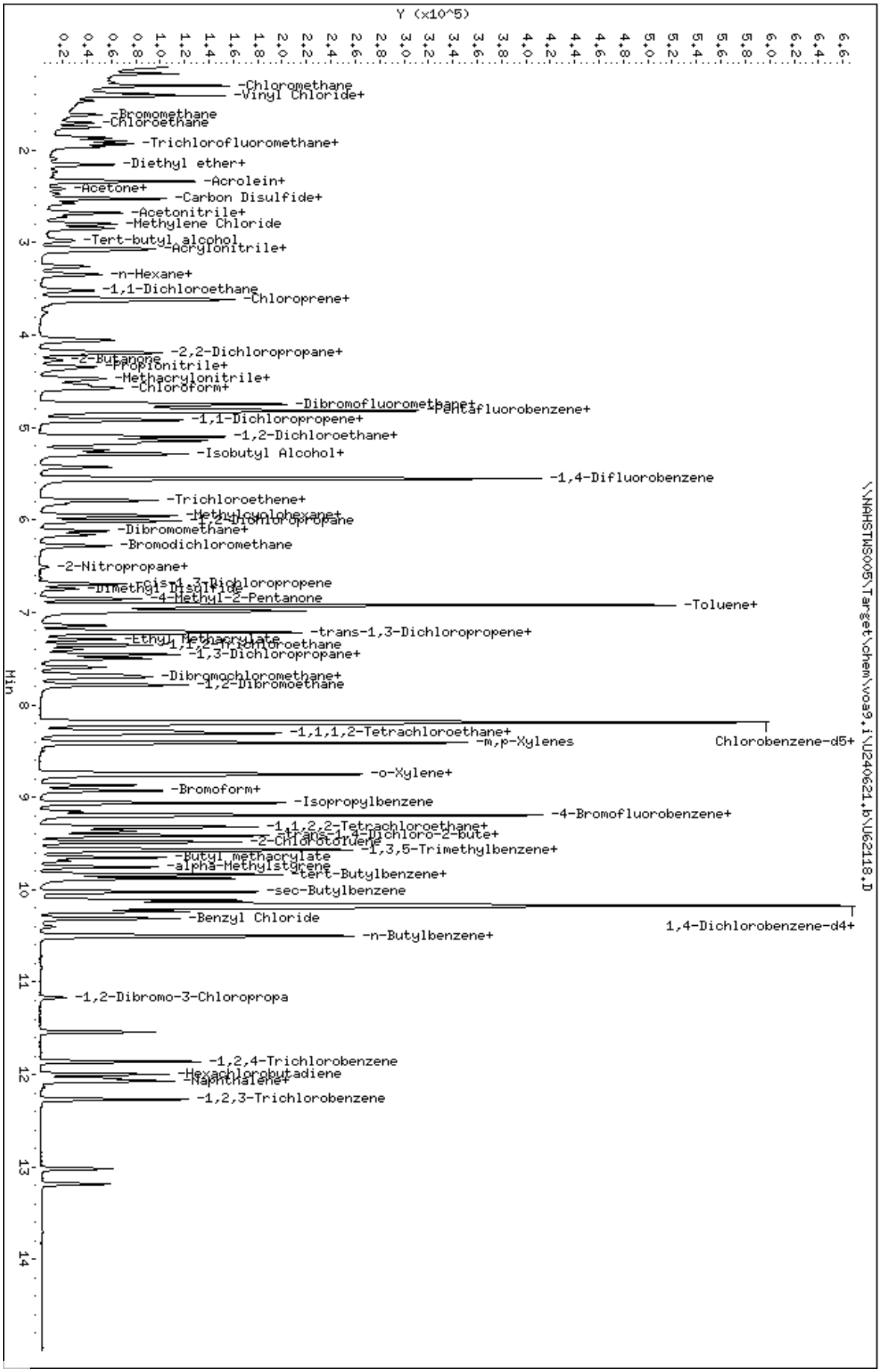
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	23 Chloroprene	53	3.612	3.608	(0.750)	36819	15.6945	15.69
	24 2-Butanone	43	4.268	4.260	(0.886)	23722	29.3569	29.35
	25 Methacrylonitrile	41	4.497	4.489	(0.933)	13133	13.4037	13.40(a)
	26 2,2-Dichloropropane	77	4.182	4.182	(0.868)	36584	17.3491	17.34
	27 cis-1,2-Dichloroethene	96	4.197	4.193	(0.871)	29975	17.4840	17.48
	28 Chloroform	83	4.575	4.572	(0.949)	50898	17.8453	17.84
	29 Bromochloromethane	128	4.470	4.467	(0.928)	15773	16.8413	16.84
$	30 Dibromofluoromethane	113	4.748	4.748	(0.985)	83118	53.4880	53.48
	31 1,1,1-Trichloroethane	97	4.744	4.740	(0.984)	41070	18.9090	18.90
	32 1,1-Dichloropropene	75	4.924	4.920	(0.887)	38062	18.8173	18.81
	33 1,2-Dichloroethane	62	5.179	5.175	(0.933)	39012	17.4113	17.41
	34 Carbon Tetrachloride	117	4.913	4.909	(0.885)	32080	18.9225	18.92
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	97724	49.3059	49.30
*	36 1,4-Difluorobenzene	114	5.554	5.550	(1.000)	331583	50.0000	
	37 Benzene	78	5.141	5.138	(0.926)	115644	16.9462	16.94
	38 Trichloroethene	130	5.790	5.786	(1.043)	32021	19.3354	19.33
	39 Bromodichloromethane	83	6.277	6.277	(1.130)	33281	17.2553	17.25
	40 Methyl Methacrylate	41	5.824	5.820	(1.208)	7375	12.0469	12.04(a)
	41 2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	626	22.4876	22.48(M)
	42 1,2-Dichloropropane	63	6.011	6.007	(1.082)	30395	16.8158	16.81
	43 2-Nitropropane	43	6.510	6.506	(1.351)	4379	11.8389	11.83
	44 Dibromomethane	93	6.120	6.116	(1.102)	17953	17.0162	17.01
	45 4-Methyl-2-Pentanone	43	6.854	6.851	(0.837)	49558	30.2913	30.29
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	36548	16.2186	16.21
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	296863	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	319024	55.3664	55.36(M)
	49 Ethyl Methacrylate	69	7.289	7.289	(1.312)	28675	13.6170	13.61(a)
	50 Toluene	91	6.982	6.982	(0.853)	125145	18.5148	18.51
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	29977	16.2392	16.23
	52 2-Hexanone	43	7.214	7.214	(0.881)	31116	27.6844	27.68
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	22371	17.1164	17.11
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	46625	16.9739	16.97
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	25053	18.3723	18.37
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	26118	20.6464	20.64
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	24565	17.0269	17.02
	58 1-Chlorohexane	55	8.196	8.197	(1.476)	22631	17.2520	17.25
	59 Chlorobenzene	112	8.211	8.212	(1.003)	81546	19.3728	19.37
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	25989	17.8973	17.89
	61 Ethylbenzene	106	8.305	8.309	(1.015)	39551	18.9076	18.90
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	98136	39.2948	39.29
	63 o-Xylene	106	8.748	8.748	(1.069)	48479	19.6983	19.69
	64 Styrene	104	8.763	8.763	(1.071)	73852	17.9486	17.94
	66 Bromoform	173	8.920	8.920	(1.090)	14610	16.8091	16.80
	67 Isopropylbenzene	105	9.062	9.062	(1.107)	123270	20.1886	20.18
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	35817	17.0936	17.09
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	122169	53.9623	53.96
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	167781	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	34020	16.6562	16.65
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	6406	15.4426	15.44(a)
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	138211	19.0498	19.04
	74 Bromobenzene	156	9.317	9.317	(0.916)	35754	18.1379	18.13
	75 1,3,5-Trimethylbenzene	105	9.565	9.565	(0.940)	88485	17.1534	17.15

76	2-Chlorotoluene	91	9.482	9.482 (0.932)	90054	18.3412	18.34
77	4-Chlorotoluene	91	9.576	9.576 (0.941)	99946	17.9361	17.93

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
78	tert-Butylbenzene	119	9.838	9.838	(0.967)	90153	20.3878	20.38
79	1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	86159	16.1375	16.13
81	sec-Butylbenzene	105	10.022	10.022	(0.985)	115695	19.6459	19.64
82	p-Isopropyltoluene	119	10.146	10.150	(0.997)	93788	17.6311	17.63
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	63955	17.6324	17.63
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	66044	18.6253	18.62
86	Benzyl Chloride	91	10.311	10.311	(1.260)	75951	25.5791	25.57
87	n-Butylbenzene	91	10.494	10.494	(1.032)	86480	18.0434	18.04
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	62644	17.3464	17.34
89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	4529	18.1474	18.14
90	1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	40096	18.3516	18.35
91	Hexachlorobutadiene	225	11.998	12.001	(1.179)	19739	20.3749	20.37
92	Naphthalene	128	12.069	12.069	(1.186)	75255	16.1445	16.14
93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	37224	18.6067	18.60
146	Methyl acetate	43	2.716	2.712	(0.564)	17133	12.3012	12.30
138	Freon TF	101	2.337	2.334	(0.485)	22424	17.5165	17.51
141	Cyclohexane	56	4.785	4.781	(0.993)	43244	18.5760	18.57
142	Tetrahydrofuran	42	4.545	4.538	(0.943)	7742	27.9433	27.94
147	Methylcyclohexane	55	5.947	5.947	(1.071)	53131	15.0900	15.09
135	1,4-Dioxane	88	6.168	6.168	(1.280)	5168	270.980	270.97
132	n-Butanol	56	5.827	5.820	(1.209)	11142	268.093	268.09(a)
136	n-Hexane	57	3.346	3.342	(0.694)	24591	16.3937	16.39
139	Diethyl ether	59	2.150	2.142	(0.446)	13906	11.5135	11.51
148	Tert-butyl alcohol	59	2.978	2.963	(0.618)	31521	225.789	225.78
149	Isopropyl alcohol	45	2.573	2.562	(0.534)	23042	211.809	211.80
156	Diisopropyl ether	45	3.627	3.619	(0.753)	67339	11.9340	11.93
162	Butyl acrylate	55	8.733	8.733	(1.067)	38801	14.1991	14.19
164	Dicyclopentadiene	66	10.202	10.202	(1.003)	106792	14.7008	14.70
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	63957	13.3280	13.32
167	Ethanol	45	2.094	2.086	(0.435)	4823	225.752	225.75
172	tert-Butyl formate	59	5.243	5.239	(1.088)	33826	30.8791	30.87
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.299)	111335	243.469	243.46
140	1,3-Butadiene	54	1.408	1.404	(0.292)	32842	16.3488	16.34
M 94	1,2-Dichloroethylene (total)	96				53759	33.8327	33.83
M 95	Xylenes (total)	106				146615	58.1980	58.19
145	alpha-Methylstyrene	118	9.756	9.756	(0.959)	26744	14.7342	14.73
131	Methyl Acrylate	55	4.373	4.365	(0.907)	24840	12.8122	12.81
189	n-Butyl acetate	43	7.705	7.705	(0.941)	35965	15.1952	15.19
134	Cyclohexanone	55	9.152	9.152	(0.900)	14327	161.549	161.54(a)
185	Isoprene	39	2.161	2.154	(0.449)	4841	14.2522	14.25
188	Isopropyl acetate	43	5.284	5.284	(0.951)	64894	14.6359	14.63
150	Allyl alcohol	57	3.346	3.342	(0.694)	24591	327.873	327.87
200	Dimethyl Disulfide	94	6.746	6.746	(0.824)	12911	13.9669	13.96
133	Ethyl Acrylate	55	5.947	5.947	(1.234)	53131	14.4379	14.43
163	Butyl methacrylate	41	9.651	9.651	(0.949)	26407	15.1078	15.10
203	2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	22049	13.5734	13.57
204	Tetrahydrothiophene	60	7.672	7.672	(0.937)	23108	13.6977	13.69(A)
205	sec-Butyl Ether	57	7.218	7.218	(0.882)	26347	7.94324	7.94(A)
187	n-Amyl acetate	43	8.931	8.931	(1.091)	41346	15.7434	15.74
206	2-Chloropropene	41	1.929	1.925	(0.400)	41103	17.1148	17.11(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.



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Date : 21-JUN-2024 15:55
Client ID: HS24060747-08HSD
Sample Info: HS24060747-08HSD;HS24060747-08HSD;3;;HSD
Purge Volume: 5.0
Column phase: DB624

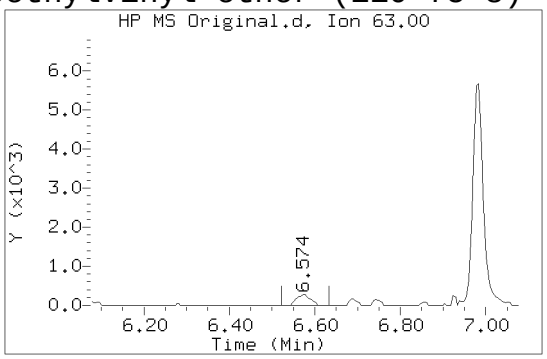
Instrument: VOA9,i
Operator: TS
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62118.D
Inj Date : 21-JUN-2024 15:55
InstruID : VOA9.i
LabSampID : HS24060747-08MSD

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

BEFORE
MASS
63
AREA
626
HEIGHT
280
22-Jul-2024
14:23
r
patel



AFTER
MASS
63
AREA
626
HEIGHT
280
22-Jul-2024
14:23
r
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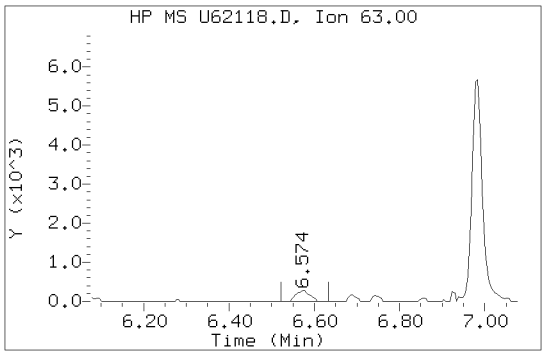

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AREA
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HEIGHT
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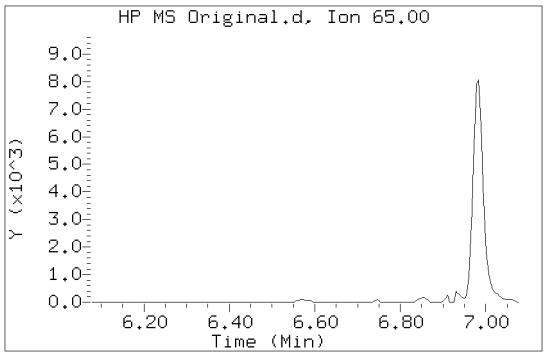
22-Jul-2024
14:23
r
patel



AFTER
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HEIGHT
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22-Jul-2024
14:23
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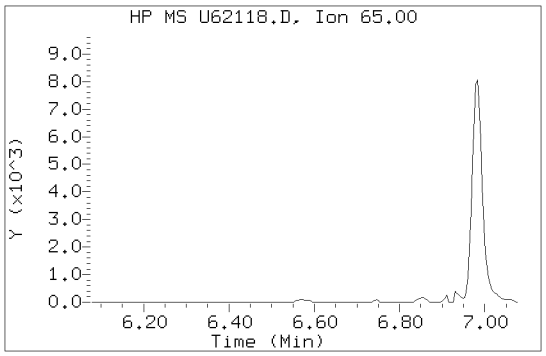

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AREA
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HEIGHT
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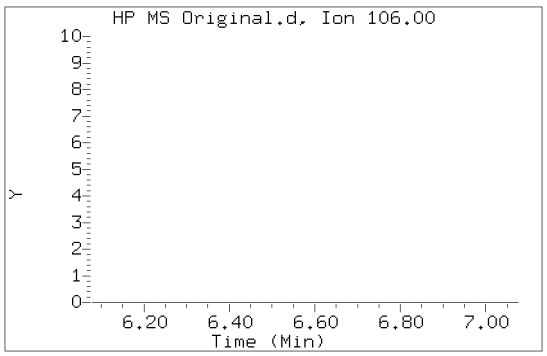
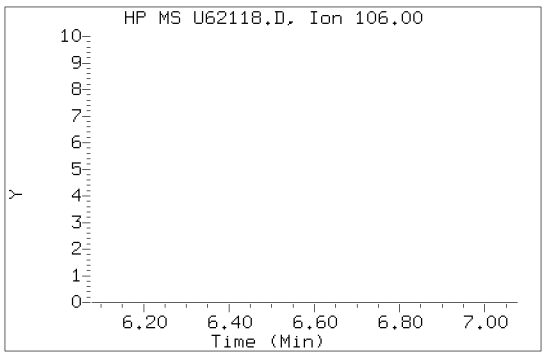
22-Jul-2024
14:23
r
patel



AFTER
MASS
106
AREA
0
HEIGHT
0
22-Jul-2024
14:23
r
patel



Toluene-d8 (2037-26-5)

Reason Code: MPT

BEFORE
MASS
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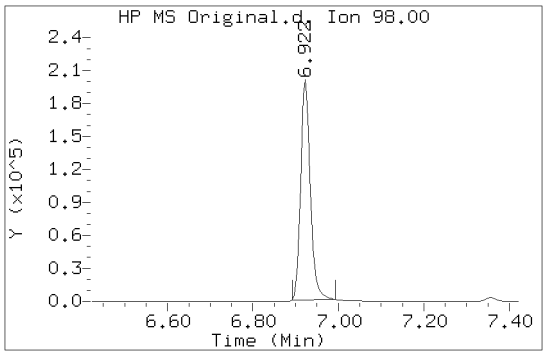
AREA
319024
HEIGHT
200197
22-Jul-2024
14:23
r
patel



AFTER
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AREA
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HEIGHT
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22-Jul-2024
14:23
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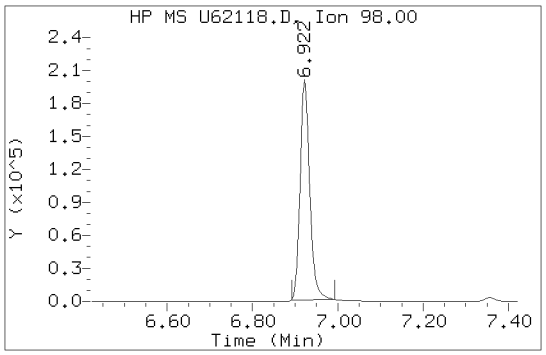
patel



Data File : \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62118.D
Inj Date : 21-JUN-2024 15:55
InstruID : VOA9.i
LabSampID : HS24060747-08MSD

Toluene-d8 (2037-26-5)

Reason Code: MPT

BEFORE

MASS
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AREA
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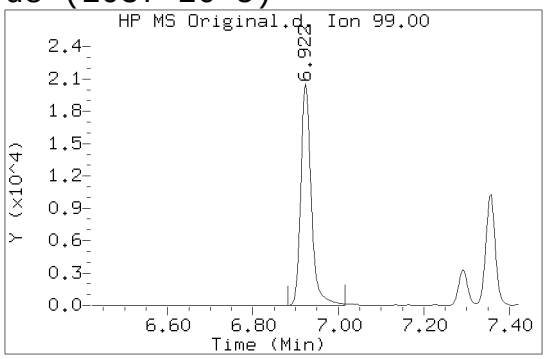
HEIGHT
20560
22-Jul-2024
14:23
r
patel



AFTER

MASS
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AREA
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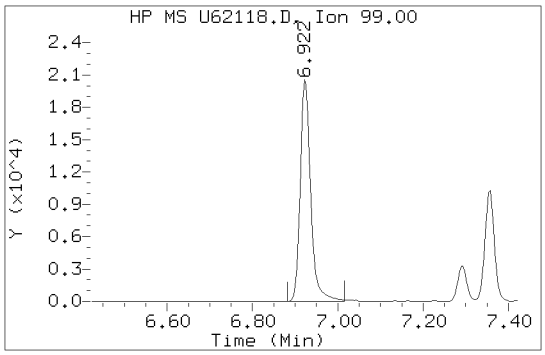
HEIGHT
20560
22-Jul-2024
14:23
r
patel



BEFORE

MASS
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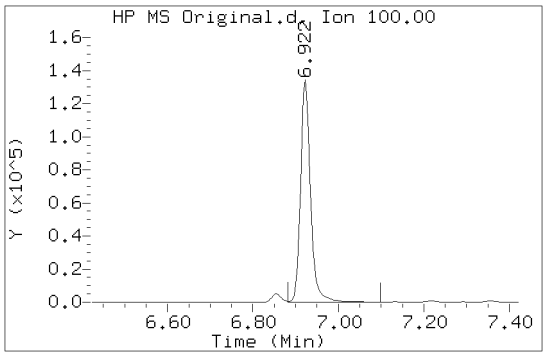
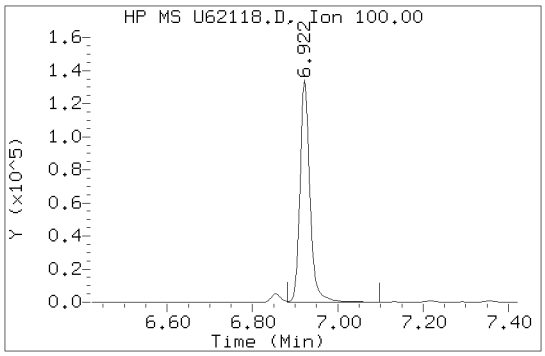
AREA
221085
HEIGHT
134372
22-Jul-2024
14:23
r
patel



AFTER

MASS
100
AREA
221085
HEIGHT
134372
22-Jul-2024
14:23
r
patel



Data File: \\nahstws005\Target\chem\voa9.i\U240621.b\U62127.D Page 1
Report Date: 22-Jun-2024 13:03

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240621.b\U62127.D
Lab Smp Id: HS24060694-01
Inj Date : 21-JUN-2024 19:11
Operator : TS   Inst ID: VOA9.i
Smp Info : HS24060694-01
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240621.b\8260C.m
Meth Date : 22-Jun-2024 11:44 tianna.smi Quant Type: ISTD
Cal Date : 20-JUN-2024 14:15   Cal File: U62010.D
Als bottle: 25
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	4.815	(1.000)	234371	50.0000	
	20 trans-1,2-Dichloroethene	96	3.049	3.057	(0.634)	1646	0.54002	0.54
	22 1,1-Dichloroethane	63	3.507	3.514	(0.729)	4785	0.99705	0.99
	27 cis-1,2-Dichloroethene	96	4.189	4.197	(0.871)	51412	30.2010	30.20
$	30 Dibromofluoromethane	113	4.744	4.748	(0.986)	82095	52.7330	52.73
$	35 1,2-Dichloroethane-d4	65	5.092	5.096	(1.058)	99900	50.3116	50.31
*	36 1,4-Difluorobenzene	114	5.550	5.554	(1.000)	331761	50.0000	
	38 Trichloroethene	130	5.786	5.786	(1.043)	306434	184.936	184.93
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	302325	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	316843	53.9944	53.99
$	69 4-Bromofluorobenzene	95	9.193	9.194	(1.123)	113518	49.2353	49.23
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	160755	50.0000	
	138 Freon TF	101	2.326	2.334	(0.483)	493569	395.920	395.91(A)
	141 Cyclohexane	56	4.777	4.782	(0.993)	10671	3.84803	3.84(aH)
M	94 1,2-Dichloroethylene (total)	96				53058	33.3158	33.31

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

H - Operator selected an alternate compound hit.

Data File: \\nahstws005\Target\chem\voa9.i\U240621.b\U62128.D Page 1
Report Date: 22-Jun-2024 13:04

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240621.b\U62128.D
Lab Smp Id: HS24060694-02
Inj Date : 21-JUN-2024 19:32
Operator : TS   Inst ID: VOA9.i
Smp Info : HS24060694-02
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240621.b\8260C.m
Meth Date : 22-Jun-2024 11:44 tianna.smi Quant Type: ISTD
Cal Date : 20-JUN-2024 14:15   Cal File: U62010.D
Als bottle: 26
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	4.815	4.815	(1.000)	219303	50.0000	
$ 30 Dibromofluoromethane	113	4.748	4.748	(0.986)	78635	53.9810	53.98
$ 35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	96906	52.1570	52.15
* 36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	315570	50.0000	
38 Trichloroethene	130	5.790	5.786	(1.043)	10463	6.63852	6.63
* 47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	288824	50.0000	
$ 48 Toluene-d8	98	6.922	6.922	(0.846)	306121	54.6058	54.60
$ 69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	110902	50.3491	50.34
* 70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	155025	50.0000	

Data File: \\nahstws005\Target\chem\voa9.i\U240621.b\U62129.D Page 1
Report Date: 22-Jun-2024 13:04

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240621.b\U62129.D
Lab Smp Id: HS24060694-03
Inj Date : 21-JUN-2024 19:53
Operator : TS   Inst ID: VOA9.i
Smp Info : HS24060694-03
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240621.b\8260C.m
Meth Date : 22-Jun-2024 11:44 tianna.smi Quant Type: ISTD
Cal Date : 20-JUN-2024 14:15   Cal File: U62010.D
Als bottle: 27
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	4.815	4.815	(1.000)	223578	50.0000	
$ 30 Dibromofluoromethane	113	4.744	4.748	(0.985)	78971	53.1751	53.17
$ 35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	96148	50.7595	50.75
* 36 1,4-Difluorobenzene	114	5.550	5.554	(1.000)	318029	50.0000	
38 Trichloroethene	130	5.786	5.786	(1.043)	4393	2.76570	2.76(a)
* 47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	291300	50.0000	
$ 48 Toluene-d8	98	6.922	6.922	(0.846)	306212	54.1577	54.15
$ 69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	109440	49.2631	49.26
* 70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	153751	50.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\nahstws005\Target\chem\voa9.i\U240621.b\U62130.D Page 1
Report Date: 22-Jun-2024 13:05

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240621.b\U62130.D
Lab Smp Id: HS24060694-04
Inj Date : 21-JUN-2024 20:18
Operator : TS   Inst ID: VOA9.i
Smp Info : HS24060694-04
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240621.b\8260C.m
Meth Date : 22-Jun-2024 11:44 tianna.smi Quant Type: ISTD
Cal Date : 20-JUN-2024 14:15   Cal File: U62010.D
Als bottle: 28
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	4.808	4.815	(1.000)	182943	50.0000	
	27 cis-1,2-Dichloroethene	96	4.186	4.197	(0.871)	2691	1.67215	1.67
	28 Chloroform	83	4.564	4.572	(0.949)	3036	0.54614	0.54
$	30 Dibromofluoromethane	113	4.740	4.748	(0.986)	59842	49.2448	49.24
	33 1,2-Dichloroethane	62	5.171	5.175	(0.932)	4271	1.47482	1.47
$	35 1,2-Dichloroethane-d4	65	5.089	5.096	(1.058)	77498	50.0012	50.00
*	36 1,4-Difluorobenzene	114	5.546	5.554	(1.000)	257019	50.0000	
	38 Trichloroethene	130	5.783	5.786	(1.043)	282177	219.820	219.82(A)
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	232240	50.0000	
$	48 Toluene-d8	98	6.918	6.922	(0.845)	238393	52.8853	52.88
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	86117	48.6225	48.62
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	125498	50.0000	
	138 Freon TF	101	2.311	2.334	(0.481)	10853	10.6399	10.63
M	94 1,2-Dichloroethylene (total)	96				2691	1.24504	1.24(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\U240621.b\U62142.D Page 1
Report Date: 22-Jul-2024 14:52

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62142.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 21-JUN-2024 20:39
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\U240621.b\8260C.m
Meth Date : 22-Jul-2024 14:52 VOA9.i Quant Type: ISTD
Cal Date : 20-JUN-2024 14:15 Cal File: U62010.D
Als bottle: 29 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7014

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)	235399	50.0000	
2 Dichlorodifluoromethane	85	1.164	1.164	(0.242)	74887	50.0000	44.54
3 Chloromethane	50	1.295	1.295	(0.269)	163182	50.0000	44.08
4 Propionitrile	54	4.332	4.332	(0.900)	88369	500.000	406.24
5 Vinyl Chloride	62	1.374	1.374	(0.285)	80078	50.0000	38.39
6 Bromomethane	94	1.603	1.603	(0.333)	31395	50.0000	40.07
7 Chloroethane	64	1.693	1.693	(0.352)	48384	50.0000	36.53
8 Trichlorofluoromethane	101	1.891	1.891	(0.393)	95837	50.0000	42.50
9 Acrolein	56	2.262	2.262	(0.470)	4509	100.000	60.41
10 Acetone	43	2.405	2.405	(0.499)	33856	100.000	52.81
11 1,1-Dichloroethene	96	2.326	2.326	(0.483)	53362	50.0000	38.85
12 Isobutyl Alcohol	43	5.280	5.280	(1.097)	171059	1000.00	736.10
13 Acetonitrile	39	2.667	2.667	(0.554)	61168	500.000	336.79
14 Allyl Chloride	41	2.667	2.667	(0.554)	139907	50.0000	32.71
15 Iodomethane	142	2.461	2.461	(0.511)	32127	100.000	61.80
16 Acrylonitrile	53	3.061	3.061	(0.636)	38058	100.000	66.09
17 Methylene Chloride	84	2.791	2.791	(0.580)	64838	50.0000	38.72
18 Methyl tert-butyl ether	73	3.076	3.076	(0.639)	150904	50.0000	37.38
19 Carbon Disulfide	76	2.517	2.517	(0.523)	288304	100.000	76.18
20 trans-1,2-Dichloroethene	96	3.053	3.053	(0.634)	58433	50.0000	40.54

21 Vinyl Acetate	43	4.335	4.335 (0.900)	62396	100.000	75.92
22 1,1-Dichloroethane	63	3.507	3.507 (0.728)	102484	50.0000	37.42

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62142.D Page 2
Report Date: 22-Jul-2024 14:52

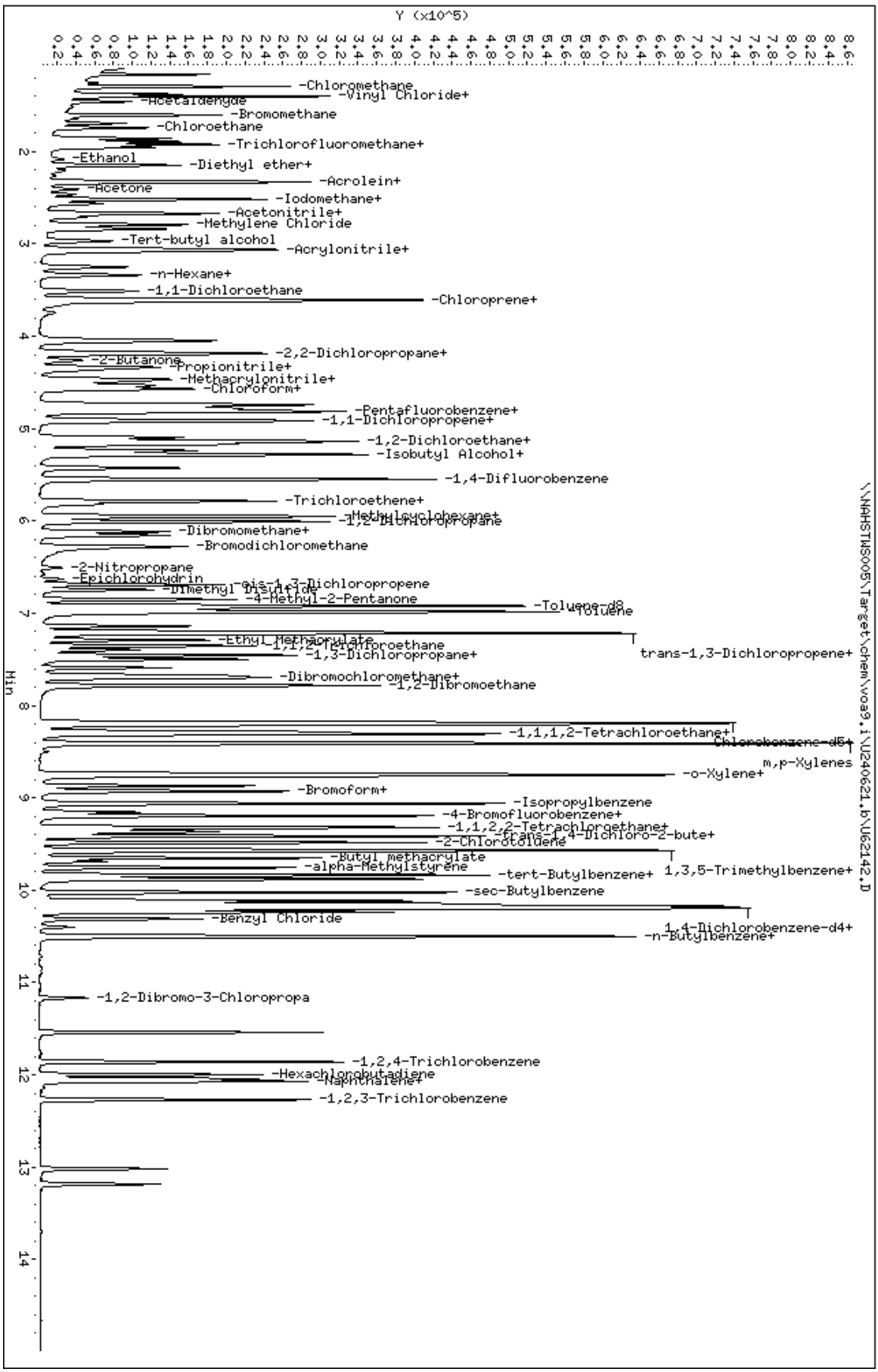
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	3.604	3.604	(0.749)	85608	50.0000	36.59
	24 2-Butanone	43	4.260	4.260	(0.885)	58393	100.000	71.60
	25 Methacrylonitrile	41	4.489	4.489	(0.932)	39258	50.0000	38.27(a)
	26 2,2-Dichloropropane	77	4.178	4.178	(0.868)	84084	50.0000	38.90
	27 cis-1,2-Dichloroethene	96	4.193	4.193	(0.871)	74551	50.0000	43.76
	28 Chloroform	83	4.568	4.568	(0.949)	124012	50.0000	44.46
	29 Bromochloromethane	128	4.467	4.467	(0.928)	38173	50.0000	40.50
$	30 Dibromofluoromethane	113	4.744	4.744	(0.985)	82940	50.0000	53.04
	31 1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	101525	50.0000	46.45
	32 1,1-Dichloropropene	75	4.920	4.920	(0.887)	90141	50.0000	45.57
	33 1,2-Dichloroethane	62	5.171	5.171	(0.932)	95830	50.0000	45.47
	34 Carbon Tetrachloride	117	4.909	4.909	(0.885)	82014	50.0000	49.47
$	35 1,2-Dichloroethane-d4	65	5.093	5.093	(1.058)	97026	50.0000	48.65
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	324233	50.0000	
	37 Benzene	78	5.134	5.134	(0.925)	280562	50.0000	42.04
	38 Trichloroethene	130	5.786	5.786	(1.043)	80966	50.0000	49.99
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	85904	50.0000	45.54
	40 Methyl Methacrylate	41	5.820	5.820	(1.209)	23144	50.0000	37.57
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	75467	50.0000	42.69
	43 2-Nitropropane	43	6.506	6.506	(1.351)	14717	50.0000	39.54
	44 Dibromomethane	93	6.116	6.116	(1.102)	43495	50.0000	42.15
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	122424	100.000	73.05
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	99360	50.0000	45.09
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	304088	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	327395	50.0000	55.46
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	82168	50.0000	39.90
	50 Toluene	91	6.978	6.978	(0.853)	301906	50.0000	43.60
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	79674	50.0000	40.34
	52 2-Hexanone	43	7.214	7.214	(0.881)	82518	100.000	73.06
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	53615	50.0000	40.04
	54 1,3-Dichloropropane	76	7.496	7.496	(0.916)	113921	50.0000	40.48
	55 Dibromochloromethane	129	7.691	7.691	(0.940)	67752	50.0000	48.50
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	61167	50.0000	47.20
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	62942	50.0000	42.59
	58 1-Chlorohexane	55	8.197	8.197	(1.477)	50182	50.0000	40.05
	59 Chlorobenzene	112	8.208	8.208	(1.003)	194579	50.0000	46.16
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	67757	50.0000	45.55
	61 Ethylbenzene	106	8.305	8.305	(1.015)	97003	50.0000	45.27
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	243337	100.000	95.12
	63 o-Xylene	106	8.748	8.748	(1.069)	119895	50.0000	47.55
	64 Styrene	104	8.763	8.763	(1.071)	192904	50.0000	45.76
	66 Bromoform	173	8.920	8.920	(1.090)	40368	50.0000	42.88
	67 Isopropylbenzene	105	9.063	9.063	(1.107)	301952	50.0000	48.27
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	84790	50.0000	38.56
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	122940	50.0000	53.01
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	177902	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	81703	50.0000	36.68
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	13465	50.0000	31.68
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	335156	50.0000	43.56
	74 Bromobenzene	156	9.317	9.317	(0.916)	87041	50.0000	41.64
	75 1,3,5-Trimethylbenzene	105	9.565	9.565	(0.940)	232671	50.0000	40.03
	76 2-Chlorotoluene	91	9.482	9.482	(0.932)	213947	50.0000	41.09

77 4-Chlorotoluene	91	9.576	9.576 (0.941)	245802	50.0000	41.60
78 tert-Butylbenzene	119	9.839	9.839 (0.967)	219024	50.0000	46.71

	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	9.880	9.880	(0.971)	214202	50.0000	37.83
81	sec-Butylbenzene	105	10.022	10.022	(0.985)	280980	50.0000	44.99
82	p-Isopropyltoluene	119	10.146	10.146	(0.997)	233600	50.0000	39.19
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	154739	50.0000	40.23
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	160969	50.0000	43.63
86	Benzyl Chloride	91	10.311	10.311	(1.260)	114650	50.0000	40.26
87	n-Butylbenzene	91	10.495	10.495	(1.032)	204145	50.0000	38.50
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	151947	50.0000	39.68
89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	10560	50.0000	38.90
90	1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	97992	50.0000	42.29
91	Hexachlorobutadiene	225	11.998	11.998	(1.179)	45047	50.0000	43.85
92	Naphthalene	128	12.069	12.069	(1.186)	195404	50.0000	36.69
93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	88550	50.0000	41.74
146	Methyl acetate	43	2.709	2.709	(0.563)	39168	50.0000	31.24
138	Freon TF	101	2.330	2.330	(0.484)	52115	50.0000	41.14
141	Cyclohexane	56	4.782	4.782	(0.993)	94813	50.0000	41.61
142	Tetrahydrofuran	42	4.538	4.538	(0.942)	22044	100.000	79.07
147	Methylcyclohexane	55	5.944	5.944	(1.071)	154119	50.0000	44.76
135	1,4-Dioxane	88	6.165	6.165	(1.280)	14289	1000.00	801.75
132	n-Butanol	56	5.820	5.820	(1.209)	32354	1000.00	761.33
136	n-Hexane	57	3.338	3.338	(0.693)	53626	50.0000	35.52
139	Diethyl ether	59	2.142	2.142	(0.445)	41193	50.0000	35.81
148	Tert-butyl alcohol	59	2.967	2.967	(0.616)	86700	1000.00	639.01
149	Isopropyl alcohol	45	2.562	2.562	(0.532)	66071	1000.00	631.94
156	Diisopropyl ether	45	3.616	3.616	(0.751)	180044	50.0000	31.71
162	Butyl acrylate	55	8.733	8.733	(1.067)	110589	50.0000	39.50
164	Dicyclopentadiene	66	10.202	10.202	(1.003)	306591	50.0000	39.80
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	199239	50.0000	39.15
167	Ethanol	45	2.082	2.082	(0.433)	13033	1000.00	645.94
172	tert-Butyl formate	59	5.239	5.239	(1.088)	88552	100.000	77.86
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	336516	1000.00	752.57
140	1,3-Butadiene	54	1.400	1.400	(0.291)	77269	50.0000	38.22
182	Epichlorohydrin	57	6.630	6.630	(1.195)	9224	200.000	166.15
M 94	1,2-Dichloroethylene (total)	96				132984	100.000	(a)
145	alpha-Methylstyrene	118	9.756	9.756	(0.959)	76040	50.0000	37.59
131	Methyl Acrylate	55	4.365	4.365	(0.907)	72159	50.0000	36.98
189	n-Butyl acetate	43	7.706	7.706	(0.941)	88924	50.0000	36.67
134	Cyclohexanone	55	9.152	9.152	(0.900)	41046	1000.00	448.23(a)
185	Isoprene	39	2.150	2.150	(0.447)	11589	50.0000	33.90
188	Isopropyl acetate	43	5.280	5.280	(0.951)	171878	50.0000	39.64
150	Allyl alcohol	57	3.338	3.338	(0.693)	53626	1000.00	710.57
194	Acetaldehyde	44	1.456	1.456	(0.303)	113068	200.000	287.33
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	49482	50.0000	44.69
133	Ethyl Acrylate	55	5.944	5.944	(1.234)	154119	50.0000	41.62
163	Butyl methacrylate	41	9.651	9.651	(0.949)	74918	50.0000	41.44
159	Propylene oxide	43	2.199	2.199	(0.457)	7143	100.000	66.42
203	2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	73088	50.0000	38.64
204	Tetrahydrothiophene	60	7.672	7.672	(0.937)	70125	50.0000	40.58(A)
205	sec-Butyl Ether	57	7.214	7.214	(0.881)	77297	50.0000	22.75(A)
187	n-Amyl acetate	43	8.931	8.931	(1.091)	101766	50.0000	37.82
206	2-Chloropropene	41	1.921	1.921	(0.399)	112920	50.0000	46.72(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\U240621.b\U62142.D
Date : 21-JUN-2024 20:39
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\U240621.b\U62142.D
Inj Date : 21-JUN-2024 20:39
InstruID : VOA9.i
LabSampID : VSTD050

NO MANUAL INTEGRATIONS

right solutions.
right partner.

RawData

Volatiles by EPA 8260C

Workorder

HS24060694

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

07/24/2024

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\U240622.b\U62201.D Page 1
Report Date: 24-Jun-2024 11:00

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240622.b\U62201.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 22-JUN-2024 12:42
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\U240622.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	84832			0.00- 100.00	100.00
9.194	9.180	(0.000)	50	14520			15.00- 40.00	17.12
9.194	9.180	(0.000)	75	40504			30.00- 60.00	47.75
9.194	9.180	(0.000)	96	5647			5.00- 9.00	6.66
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	78496			50.00- 0.00	92.53
9.194	9.180	(0.000)	175	6872			5.00- 9.00	8.75
9.194	9.180	(0.000)	176	77040			95.00- 101.00	98.15
9.194	9.180	(0.000)	177	5037			5.00- 9.00	6.54

Data File: \\nahstws005\Target\chem\voa9.i\U240622.b\U62202A.D Page 1
Report Date: 22-Jun-2024 13:47

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240622.b\U62202A.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 22-JUN-2024 13:24
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\U240622.b\8260C.m
Meth Date : 22-Jun-2024 13:20 Quant Type: ISTD
Cal Date : 20-JUN-2024 14:15 Cal File: U62010.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: 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	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.815	4.815	(1.000)	235980	50.0000	
2 Dichlorodifluoromethane	85	1.168	1.168	(0.243)	69978	50.0000	41.52
3 Chloromethane	50	1.303	1.303	(0.271)	151682	50.0000	40.63
4 Propionitrile	54	4.335	4.335	(0.900)	106826	500.000	489.88
5 Vinyl Chloride	62	1.381	1.381	(0.287)	89365	50.0000	42.73
6 Bromomethane	94	1.618	1.618	(0.336)	40455	50.0000	51.85
7 Chloroethane	64	1.704	1.704	(0.354)	58667	50.0000	44.38
8 Trichlorofluoromethane	101	1.899	1.899	(0.394)	103364	50.0000	45.73
9 Acrolein	56	2.270	2.270	(0.471)	6489	100.000	88.76
10 Acetone	43	2.409	2.409	(0.500)	49264	100.000	80.19(M)
11 1,1-Dichloroethene	96	2.334	2.334	(0.485)	56156	50.0000	40.79
12 Isobutyl Alcohol	43	5.284	5.284	(1.097)	192010	1000.00	824.22
13 Acetonitrile	39	2.675	2.675	(0.556)	84440	500.000	467.72
14 Allyl Chloride	41	2.675	2.675	(0.556)	184833	50.0000	43.35
15 Iodomethane	142	2.469	2.469	(0.513)	60114	100.000	110.13
16 Acrylonitrile	53	3.068	3.068	(0.637)	50804	100.000	88.18
17 Methylene Chloride	84	2.798	2.798	(0.581)	70344	50.0000	42.13
18 Methyl tert-butyl ether	73	3.080	3.080	(0.640)	186880	50.0000	46.08
19 Carbon Disulfide	76	2.521	2.521	(0.524)	327670	100.000	86.37
20 trans-1,2-Dichloroethene	96	3.061	3.061	(0.636)	63814	50.0000	44.22

21 Vinyl Acetate	43	4.339	4.339 (0.901)	75240	100.000	91.38
22 1,1-Dichloroethane	63	3.514	3.514 (0.730)	118972	50.0000	43.46

Data File: \\nahstws005\Target\chem\voa9.i\U240622.b\U62202A.D Page 2
Report Date: 22-Jun-2024 13:47

	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)	99581	50.0000	42.50
	24 2-Butanone	43	4.264	4.264	(0.886)	70610	100.000	86.34
	25 Methacrylonitrile	41	4.493	4.493	(0.933)	45377	50.0000	44.02(a)
	26 2,2-Dichloropropane	77	4.182	4.182	(0.868)	99584	50.0000	45.86
	27 cis-1,2-Dichloroethene	96	4.197	4.197	(0.872)	76958	50.0000	45.08
	28 Chloroform	83	4.572	4.572	(0.949)	120411	50.0000	43.03
	29 Bromochloromethane	128	4.470	4.470	(0.928)	38413	50.0000	40.66
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	86052	50.0000	54.89
	31 1,1,1-Trichloroethane	97	4.744	4.744	(0.985)	96495	50.0000	44.04
	32 1,1-Dichloropropene	75	4.920	4.920	(0.886)	87491	50.0000	43.32
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	95642	50.0000	44.42
	34 Carbon Tetrachloride	117	4.913	4.913	(0.885)	77344	50.0000	45.69
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	98755	50.0000	49.39
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	331039	50.0000	
	37 Benzene	78	5.138	5.138	(0.925)	273583	50.0000	40.15(M)
	38 Trichloroethene	130	5.786	5.786	(1.042)	71638	50.0000	43.32
	39 Bromodichloromethane	83	6.277	6.277	(1.130)	85936	50.0000	44.62
	40 Methyl Methacrylate	41	5.820	5.820	(1.209)	27564	50.0000	44.63
	41 2-Chloroethylvinyl ether	63	6.577	6.577	(1.184)	3854	100.000	86.54(M)
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	73754	50.0000	40.87
	43 2-Nitropropane	43	6.506	6.506	(1.351)	17409	50.0000	46.65
	44 Dibromomethane	93	6.120	6.120	(1.102)	43374	50.0000	41.17
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	137615	100.000	82.30
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	104169	50.0000	46.30
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	303395	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	337374	50.0000	57.29
	49 Ethyl Methacrylate	69	7.289	7.289	(1.312)	93947	50.0000	44.68
	50 Toluene	91	6.982	6.982	(0.853)	299947	50.0000	43.42
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	86923	50.0000	42.95
	52 2-Hexanone	43	7.214	7.214	(0.881)	98752	100.000	87.81
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	55505	50.0000	41.55
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	115777	50.0000	41.24
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	68849	50.0000	49.40
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	59290	50.0000	45.85
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	65186	50.0000	44.20
	58 1-Chlorohexane	55	8.197	8.197	(1.476)	51336	50.0000	40.13(M)
	59 Chlorobenzene	112	8.208	8.208	(1.003)	192392	50.0000	45.74
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	67148	50.0000	45.24
	61 Ethylbenzene	106	8.305	8.305	(1.015)	94055	50.0000	43.99
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	240194	100.000	94.10
	63 o-Xylene	106	8.748	8.748	(1.069)	118964	50.0000	47.29
	64 Styrene	104	8.763	8.763	(1.071)	200824	50.0000	47.75
	66 Bromoform	173	8.920	8.920	(1.090)	43673	50.0000	46.29
	67 Isopropylbenzene	105	9.063	9.063	(1.107)	290633	50.0000	46.57
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	91492	50.0000	43.17
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	125084	50.0000	54.06
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	171616	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	87729	50.0000	40.74
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	17606	50.0000	41.52
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	330062	50.0000	44.47
	74 Bromobenzene	156	9.317	9.317	(0.916)	86113	50.0000	42.70
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	237326	50.0000	42.23

76	2-Chlorotoluene	91	9.482	9.482 (0.932)	208147	50.0000	41.44
77	4-Chlorotoluene	91	9.576	9.576 (0.941)	243713	50.0000	42.75

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.838	9.838	(0.967)	208237	50.0000	46.03
79	1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	233197	50.0000	42.70
81	sec-Butylbenzene	105	10.022	10.022	(0.985)	274270	50.0000	45.53
82	p-Isopropyltoluene	119	10.146	10.146	(0.997)	243844	50.0000	42.27
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	154324	50.0000	41.59
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	158695	50.0000	44.60
86	Benzyl Chloride	91	10.311	10.311	(1.260)	116546	50.0000	41.12(M)
87	n-Butylbenzene	91	10.495	10.495	(1.032)	210134	50.0000	40.99
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	150178	50.0000	40.65
89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	11651	50.0000	44.24
90	1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	100241	50.0000	44.85
91	Hexachlorobutadiene	225	11.998	11.998	(1.179)	45326	50.0000	45.74
92	Naphthalene	128	12.069	12.069	(1.186)	221447	50.0000	42.76
93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	91880	50.0000	44.90
146	Methyl acetate	43	2.716	2.716	(0.564)	54375	50.0000	44.26
138	Freon TF	101	2.337	2.337	(0.485)	55659	50.0000	43.87
141	Cyclohexane	56	4.785	4.785	(0.994)	91710	50.0000	40.11(M)
142	Tetrahydrofuran	42	4.542	4.542	(0.943)	25910	100.000	92.70
147	Methylcyclohexane	55	5.947	5.947	(1.071)	170738	50.0000	48.57
135	1,4-Dioxane	88	6.165	6.165	(1.280)	15782	1000.00	885.12
132	n-Butanol	56	5.820	5.820	(1.209)	39077	1000.00	911.82
136	n-Hexane	57	3.346	3.346	(0.695)	66305	50.0000	43.82
139	Diethyl ether	59	2.146	2.146	(0.446)	55741	50.0000	48.69
148	Tert-butyl alcohol	59	2.967	2.967	(0.616)	121388	1000.00	897.46
149	Isopropyl alcohol	45	2.566	2.566	(0.533)	91055	1000.00	874.51
156	Diisopropyl ether	45	3.619	3.619	(0.752)	238812	50.0000	41.95
162	Butyl acrylate	55	8.733	8.733	(1.067)	129049	50.0000	46.20
164	Dicyclopentadiene	66	10.202	10.202	(1.003)	315689	50.0000	42.48
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	228935	50.0000	46.64
167	Ethanol	45	2.086	2.086	(0.433)	19300	1000.00	965.42
172	tert-Butyl formate	59	5.239	5.239	(1.088)	104890	100.000	90.70
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.299)	409480	1000.00	896.92
140	1,3-Butadiene	54	1.408	1.408	(0.292)	88444	50.0000	43.64
182	Epichlorohydrin	57	6.630	6.630	(1.194)	11796	200.000	203.49
M 94	1,2-Dichloroethylene (total)	96				140772	100.000	89.38
M 95	Xylenes (total)	106				359158	150.000	142.80
145	alpha-Methylstyrene	118	9.756	9.756	(0.959)	87386	50.0000	44.39
130	Ethyl Acetate	43	4.530	4.530	(0.941)	23905	50.0000	42.68(M)
131	Methyl Acrylate	55	4.369	4.369	(0.907)	86314	50.0000	44.13
189	n-Butyl acetate	43	7.705	7.705	(0.941)	103607	50.0000	42.83
134	Cyclohexanone	55	9.152	9.152	(0.900)	60155	1000.00	681.98
185	Isoprene	39	2.157	2.157	(0.448)	15194	50.0000	44.34
188	Isopropyl acetate	43	5.284	5.284	(0.951)	192171	50.0000	43.41
150	Allyl alcohol	57	3.346	3.346	(0.695)	66305	1000.00	876.41
194	Acetaldehyde	44	1.464	1.464	(0.304)	72668	200.000	184.21(M)
200	Dimethyl Disulfide	94	6.746	6.746	(0.824)	57498	50.0000	50.77
202	Isobutylene	41	1.753	1.753	(0.364)	35370	50.0000	45.08(M)
133	Ethyl Acrylate	55	5.947	5.947	(1.235)	170738	50.0000	45.99
163	Butyl methacrylate	41	9.647	9.647	(0.948)	80671	50.0000	46.33
159	Propylene oxide	43	2.202	2.202	(0.457)	9557	100.000	88.64
178	Ethylene oxide	44	1.606	1.606	(0.334)	148797	100.000	84.93(M)
203	2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	86324	50.0000	46.57

204 Tetrahydrothiophene	60	7.672	7.672 (0.937)	79368	50.0000	46.03(A)
205 sec-Butyl Ether	57	7.214	7.214 (0.881)	144874	50.0000	42.73(AM)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
187 n-Amyl acetate	43	8.931	8.931	(1.091)	114753	50.0000	42.75
206 2-Chloropropene	41	1.929	1.929	(0.401)	153096	50.0000	63.19(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\U240622.b\U62203.D Page 1
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ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240622.b\U62203.D
Lab Smp Id: VLCSW-240622 Client Smp ID: VLCSW-240622
Inj Date : 22-JUN-2024 13:46
Operator : TS Inst ID: VOA9.i
Smp Info : VLCSW-240622;VLCSW-240622;3;;LCS
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240622.b\8260C.m
Meth Date : 23-Jun-2024 01:53 Quant Type: ISTD
Cal Date : 20-JUN-2024 14:15 Cal File: U62010.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: 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	4.815	4.815	(1.000)	240553	50.0000	
2 Dichlorodifluoromethane	85	1.164	1.168	(0.242)	29164	16.9759	16.97
3 Chloromethane	50	1.295	1.299	(0.269)	64093	15.5502	15.55
4 Propionitrile	54	4.332	4.339	(0.900)	36936	163.478	163.47(a)
5 Vinyl Chloride	62	1.378	1.378	(0.286)	36400	17.1514	17.15
6 Bromomethane	94	1.610	1.606	(0.334)	17975	21.6348	21.63
7 Chloroethane	64	1.696	1.696	(0.352)	23583	17.0255	17.02
8 Trichlorofluoromethane	101	1.891	1.895	(0.393)	42355	18.3833	18.38
9 Acrolein	56	2.262	2.262	(0.470)	2945	36.4435	36.44
10 Acetone	43	2.405	2.412	(0.499)	20971	28.9402	28.94
11 1,1-Dichloroethene	96	2.330	2.330	(0.484)	23739	16.9163	16.91
12 Isobutyl Alcohol	43	5.280	5.284	(1.097)	69258	291.646	291.64(a)
13 Acetonitrile	39	2.667	2.671	(0.554)	32702	171.218	171.21(a)
14 Allyl Chloride	41	2.667	2.671	(0.554)	75476	16.9820	16.98(a)
15 Iodomethane	142	2.465	2.465	(0.512)	25943	49.4164	49.41
16 Acrylonitrile	53	3.061	3.068	(0.636)	20388	34.4081	34.40
17 Methylene Chloride	84	2.791	2.795	(0.580)	29454	16.0690	16.06
18 Methyl tert-butyl ether	73	3.076	3.083	(0.639)	70458	17.3075	17.30
19 Carbon Disulfide	76	2.517	2.517	(0.523)	137571	35.5731	35.57
20 trans-1,2-Dichloroethene	96	3.053	3.057	(0.634)	25614	17.0397	17.03

21 Vinyl Acetate	43	4.335	4.343 (0.900)	26713	31.6207	31.62
22 1,1-Dichloroethane	63	3.511	3.511 (0.729)	48981	17.0807	17.08

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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	23 Chloroprene	53	3.604	3.608	(0.749)	40085	16.6319	16.63
	24 2-Butanone	43	4.260	4.264	(0.885)	25413	30.5792	30.57
	25 Methacrylonitrile	41	4.493	4.493	(0.933)	16419	16.1215	16.12(a)
	26 2,2-Dichloropropane	77	4.178	4.182	(0.868)	35685	16.4866	16.48
	27 cis-1,2-Dichloroethene	96	4.193	4.193	(0.871)	29238	16.5660	16.56
	28 Chloroform	83	4.568	4.572	(0.949)	47923	16.2661	16.26
	29 Bromochloromethane	128	4.466	4.467	(0.928)	15083	15.6620	15.66
$	30 Dibromofluoromethane	113	4.744	4.748	(0.985)	86623	54.2116	54.21
	31 1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	38709	17.3322	17.33
	32 1,1-Dichloropropene	75	4.920	4.920	(0.887)	35130	16.9779	16.97
	33 1,2-Dichloroethane	62	5.171	5.175	(0.932)	37802	16.4321	16.43
	34 Carbon Tetrachloride	117	4.909	4.909	(0.885)	29983	17.2885	17.28
$	35 1,2-Dichloroethane-d4	65	5.093	5.096	(1.058)	101089	49.6020	49.60
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	339197	50.0000	
	37 Benzene	78	5.138	5.138	(0.926)	109113	15.6303	15.63
	38 Trichloroethene	130	5.786	5.786	(1.043)	28957	17.0928	17.09
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	31919	16.1776	16.17
	40 Methyl Methacrylate	41	5.820	5.824	(1.209)	10318	16.3910	16.39(a)
	41 2-Chloroethylvinyl ether	63	6.573	6.577	(1.184)	1416	38.2359	38.23(M)
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	28774	15.5616	15.56
	43 2-Nitropropane	43	6.506	6.506	(1.351)	5366	14.1086	14.10
	44 Dibromomethane	93	6.116	6.120	(1.102)	17261	15.9931	15.99
	45 4-Methyl-2-Pentanone	43	6.851	6.855	(0.837)	49938	29.4950	29.49
	46 cis-1,3-Dichloropropene	75	6.689	6.690	(1.205)	36735	15.9357	15.93
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	307216	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	339014	56.8529	56.85
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	32882	15.2643	15.26(a)
	50 Toluene	91	6.978	6.982	(0.853)	117923	16.8584	16.85
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.297)	29855	15.8686	15.86
	52 2-Hexanone	43	7.214	7.218	(0.881)	37491	32.3761	32.37
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	21306	15.7522	15.75
	54 1,3-Dichloropropane	76	7.495	7.499	(0.916)	44900	15.7951	15.79
	55 Dibromochloromethane	129	7.690	7.691	(0.940)	24222	17.1643	17.16
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	24097	18.4068	18.40
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	24013	16.0834	16.08
	58 1-Chlorohexane	55	8.196	8.197	(1.477)	21210	15.7440	15.74
	59 Chlorobenzene	112	8.208	8.208	(1.003)	76336	17.4491	17.44
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	24395	16.2334	16.23
	61 Ethylbenzene	106	8.305	8.305	(1.015)	37350	17.2536	17.25
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	95979	37.1360	37.13
	63 o-Xylene	106	8.747	8.748	(1.069)	46249	18.1589	18.15
	64 Styrene	104	8.762	8.763	(1.071)	77824	18.2765	18.27
	66 Bromoform	173	8.920	8.920	(1.090)	14642	16.3138	16.31
	67 Isopropylbenzene	105	9.062	9.063	(1.107)	116858	18.4935	18.49
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	34915	16.2522	16.25
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	126735	54.0927	54.09
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	171856	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	33389	15.9940	15.99
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	6430	14.9781	14.97(a)
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	130697	17.5870	17.58
	74 Bromobenzene	156	9.317	9.317	(0.916)	34858	17.2641	17.26
	75 1,3,5-Trimethylbenzene	105	9.565	9.565	(0.940)	87627	16.6403	16.64

76	2-Chlorotoluene	91	9.482	9.482 (0.932)	82743	16.4526	16.45
77	4-Chlorotoluene	91	9.576	9.576 (0.941)	97878	17.1485	17.14

Data File: \\nahstws005\Target\chem\voa9.i\U240622.b\U62203.D Page 3
Report Date: 24-Jun-2024 11:02

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
78	tert-Butylbenzene	119	9.838	9.838	(0.967)	82210	18.1506	18.15
79	1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	90961	16.6330	16.63
81	sec-Butylbenzene	105	10.022	10.022	(0.985)	107931	17.8929	17.89
82	p-Isopropyltoluene	119	10.146	10.146	(0.997)	93002	17.1214	17.12
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	61839	16.6447	16.64
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	64568	17.7486	17.74
86	Benzyl Chloride	91	10.311	10.311	(1.260)	50021	14.3039	14.30
87	n-Butylbenzene	91	10.494	10.495	(1.032)	84866	17.3438	17.34
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	60366	16.3192	16.31
89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	4219	16.5486	16.54
90	1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	40442	18.0710	18.07
91	Hexachlorobutadiene	225	11.998	12.001	(1.179)	19379	19.5290	19.52
92	Naphthalene	128	12.069	12.069	(1.186)	82222	17.0903	17.09
93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	37335	18.2197	18.21
146	Methyl acetate	43	2.708	2.716	(0.563)	23141	16.9705	16.97
138	Freon TF	101	2.330	2.334	(0.484)	23010	17.4791	17.47
141	Cyclohexane	56	4.781	4.782	(0.993)	38657	16.0231	16.02
142	Tetrahydrofuran	42	4.541	4.545	(0.943)	9273	32.5493	32.54
147	Methylcyclohexane	55	5.947	5.947	(1.072)	62129	17.2495	17.24
135	1,4-Dioxane	88	6.165	6.169	(1.280)	6546	342.340	342.33
132	n-Butanol	56	5.820	5.824	(1.209)	14248	332.933	332.93(a)
136	n-Hexane	57	3.338	3.338	(0.693)	28170	18.2635	18.26
139	Diethyl ether	59	2.142	2.146	(0.445)	20867	17.2569	17.25
148	Tert-butyl alcohol	59	2.963	2.978	(0.615)	47903	339.719	339.71
149	Isopropyl alcohol	45	2.562	2.574	(0.532)	37208	341.373	341.37
156	Diisopropyl ether	45	3.616	3.623	(0.751)	91033	15.6897	15.68
162	Butyl acrylate	55	8.733	8.733	(1.067)	46370	16.3971	16.39
164	Dicyclopentadiene	66	10.202	10.202	(1.003)	123086	16.5420	16.54
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	79136	16.1001	16.10
167	Ethanol	45	2.082	2.094	(0.433)	7574	357.187	357.18
172	tert-Butyl formate	59	5.239	5.243	(1.088)	44425	39.3895	39.38
151	4-Methyl-2-pentanol	45	7.214	7.218	(1.300)	141575	302.648	302.64
140	1,3-Butadiene	54	1.400	1.404	(0.291)	36049	17.4521	17.45
182	Epichlorohydrin	57	6.629	6.630	(1.195)	3744	69.9546	69.95
M 94	1,2-Dichloroethylene (total)	96				54852	33.5643	33.56
M 95	Xylenes (total)	106				142228	55.1894	55.18
145	alpha-Methylstyrene	118	9.756	9.756	(0.959)	31506	16.8089	16.80
131	Methyl Acrylate	55	4.365	4.369	(0.907)	30053	15.0750	15.07
189	n-Butyl acetate	43	7.705	7.705	(0.941)	38687	15.7944	15.79
134	Cyclohexanone	55	9.152	9.152	(0.900)	23402	262.109	262.10(a)
185	Isoprene	39	2.150	2.154	(0.447)	6146	17.5969	17.59
188	Isopropyl acetate	43	5.280	5.284	(0.951)	69774	15.3832	15.38
150	Allyl alcohol	57	3.338	3.338	(0.693)	28170	365.270	365.26
194	Acetaldehyde	44	1.460	1.460	(0.303)	55302	137.527	137.52
200	Dimethyl Disulfide	94	6.742	6.746	(0.824)	15834	16.2299	16.22
133	Ethyl Acrylate	55	5.947	5.947	(1.235)	62129	16.4191	16.41
163	Butyl methacrylate	41	9.651	9.651	(0.949)	30802	17.2888	17.28
159	Propylene oxide	43	2.199	2.202	(0.457)	3435	31.2567	31.25
203	2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	28898	16.9581	16.95
204	Tetrahydrothiophene	60	7.672	7.672	(0.937)	28831	16.5141	16.51(A)
205	sec-Butyl Ether	57	7.214	7.218	(0.881)	31130	9.06897	9.06(A)
187	n-Amyl acetate	43	8.931	8.931	(1.091)	44208	16.2659	16.26

206 2-Chloropropene	41	1.921	1.925 (0.399)	59177	23.9635	23.96(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\U240622.b\U62206.D Page 1
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Data file : \\nahstws005\Target\chem\voa9.i\U240622.b\U62206.D
Lab Smp Id: VBLKW-240622 Client Smp ID: VBLKW-240622
Inj Date : 22-JUN-2024 14:50
Operator : TS Inst ID: VOA9.i
Smp Info : VBLKW-240622;VBLKW-240622;3;;BLANK
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240622.b\8260C.m
Meth Date : 23-Jun-2024 01:53 Quant Type: ISTD
Cal Date : 20-JUN-2024 14:15 Cal File: U62010.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: 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	4.815	4.815	(1.000)	239948	50.0000	
$ 30 Dibromofluoromethane	113	4.744	4.748	(0.985)	84597	53.0771	53.07
$ 35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	102627	50.4836	50.48
* 36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	341369	50.0000	
* 47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	305002	50.0000	
$ 48 Toluene-d8	98	6.922	6.922	(0.846)	330007	55.7441	55.74(M)
$ 69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	117517	50.5224	50.52
* 70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	163422	50.0000	

QC Flag Legend

M - Compound response manually integrated.

Data File: \\nahstws005\Target\chem\voa9.i\U240622.b\U62216.D Page 1
Report Date: 24-Jun-2024 10:39

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240622.b\U62216.D
Lab Smp Id: HS24060694-05
Inj Date : 22-JUN-2024 18:51
Operator : TS   Inst ID: VOA9.i
Smp Info : HS24060694-05
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240622.b\8260C.m
Meth Date : 23-Jun-2024 01:53   Quant Type: ISTD
Cal Date : 20-JUN-2024 14:15   Cal File: U62010.D
Als bottle: 15
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	4.815	(1.000)	241991	50.0000	
$ 30 Dibromofluoromethane	113	4.744	4.748	(0.986)	86045	53.5299	53.52
34 Carbon Tetrachloride	117	4.811	4.909	(0.867)	21324	11.9633	11.96
$ 35 1,2-Dichloroethane-d4	65	5.092	5.096	(1.058)	109593	53.4552	53.45
* 36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	348621	50.0000	
* 47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	318945	50.0000	
$ 48 Toluene-d8	98	6.922	6.922	(0.846)	339617	54.8596	54.85
$ 69 4-Bromofluorobenzene	95	9.193	9.194	(1.123)	122017	50.1638	50.16
* 70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	166810	50.0000	
92 Naphthalene	128	12.072	12.069	(1.187)	1069	2.16206	2.16(aH)

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\U240622.b\U62217.D Page 1
Report Date: 22-Jun-2024 19:30

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240622.b\U62217.D
Lab Smp Id: HS24060694-06
Inj Date : 22-JUN-2024 19:13
Operator : TS   Inst ID: VOA9.i
Smp Info : HS24060694-06
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240622.b\8260C.m
Meth Date : 22-Jun-2024 13:20   Quant Type: ISTD
Cal Date : 20-JUN-2024 14:15   Cal File: U62010.D
Als bottle: 16
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	4.819	4.815	(1.000)	236565	50.0000	
	2 Dichlorodifluoromethane	85	1.022	1.168	(0.212)	8738	5.17201	5.17
	3 Chloromethane	50	1.014	1.303	(0.211)	13732	2.14607	2.14
	5 Vinyl Chloride	62	1.025	1.381	(0.213)	13053	6.33486	6.33
	7 Chloroethane	64	1.254	1.704	(0.260)	33279	24.7516	24.75
	15 Iodomethane	142	2.472	2.469	(0.513)	1546	3.44714	3.44
$	30 Dibromofluoromethane	113	4.748	4.748	(0.985)	83940	53.4181	53.41
	33 1,2-Dichloroethane	62	5.554	5.175	(1.000)	10290	3.69736	3.69
	34 Carbon Tetrachloride	117	4.815	4.913	(0.867)	20435	11.9275	11.92
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	100750	50.2691	50.26
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	335089	50.0000	
	42 1,2-Dichloropropane	63	5.554	6.007	(1.000)	66281	36.2857	36.28
	45 4-Methyl-2-Pentanone	43	6.918	6.851	(0.845)	1252	0.75204	0.75(a)
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	302083	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	326319	55.6538	55.65
	52 2-Hexanone	43	6.918	7.214	(0.845)	1525	0.49956	0.49(a)
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	116139	50.4124	50.41
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	160468	50.0000	
	71 1,2,3-Trichloropropane	75	9.194	9.362	(0.904)	55213	27.6909	27.69
	86 Benzyl Chloride	91	10.315	10.311	(1.260)	14283	0.29987	0.29(a)

141 Cyclohexane	56	4.815	4.785 (0.999)	3642	0.66234	0.66(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\nahstws005\Target\chem\voa9.i\U240622.b\U62218.D Page 1
Report Date: 24-Jun-2024 10:40

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240622.b\U62218.D
Lab Smp Id: HS24060694-07
Inj Date : 22-JUN-2024 19:34
Operator : TS   Inst ID: VOA9.i
Smp Info : HS24060694-07
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240622.b\8260C.m
Meth Date : 23-Jun-2024 01:53   Quant Type: ISTD
Cal Date : 20-JUN-2024 14:15   Cal File: U62010.D
Als bottle: 17
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	4.815	4.815	(1.000)	227412	50.0000	
$ 30 Dibromofluoromethane	113	4.747	4.748	(0.986)	81292	53.8151	53.81
$ 35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	98320	51.0311	51.03
* 36 1,4-Difluorobenzene	114	5.553	5.550	(1.000)	323173	50.0000	
* 47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	292892	50.0000	
$ 48 Toluene-d8	98	6.922	6.922	(0.846)	315403	55.4801	55.48
$ 69 4-Bromofluorobenzene	95	9.193	9.194	(1.123)	111173	49.7711	49.77
* 70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	155979	50.0000	

Data File: \\nahstws005\Target\chem\voa9.i\U240622.b\U62219.D Page 1
Report Date: 22-Jun-2024 20:12

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240622.b\U62219.D
Lab Smp Id: HS24060694-08
Inj Date : 22-JUN-2024 19:56
Operator : TS   Inst ID: VOA9.i
Smp Info : HS24060694-08
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240622.b\8260C.m
Meth Date : 22-Jun-2024 13:20   Quant Type: ISTD
Cal Date : 20-JUN-2024 14:15   Cal File: U62010.D
Als bottle: 18
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	4.815	(1.000)	227530	50.0000	
	2 Dichlorodifluoromethane	85	1.134	1.168	(0.236)	39558	24.3441	24.34
	3 Chloromethane	50	1.134	1.303	(0.236)	8646	0.87484	0.87
	5 Vinyl Chloride	62	1.134	1.381	(0.236)	3973	2.09154	2.09
	7 Chloroethane	64	1.246	1.704	(0.259)	27694	21.3141	21.31
	8 Trichlorofluoromethane	101	2.150	1.899	(0.447)	1599	0.73374	0.73
	10 Acetone	43	2.330	2.409	(0.484)	10188	11.0662	11.06
	11 1,1-Dichloroethene	96	2.326	2.334	(0.483)	3070	2.31288	2.31
	15 Iodomethane	142	2.465	2.469	(0.512)	1400	3.26741	3.26
	17 Methylene Chloride	84	2.330	2.798	(0.484)	28683	16.5975	16.59
$	30 Dibromofluoromethane	113	4.744	4.748	(0.986)	82021	54.2695	54.26
	33 1,2-Dichloroethane	62	5.550	5.175	(1.000)	10450	3.92550	3.92
	34 Carbon Tetrachloride	117	4.811	4.913	(0.867)	19308	11.6198	11.61
$	35 1,2-Dichloroethane-d4	65	5.092	5.096	(1.058)	98725	51.2147	51.21
*	36 1,4-Difluorobenzene	114	5.550	5.554	(1.000)	324992	50.0000	
	42 1,2-Dichloropropane	63	5.550	6.007	(1.000)	64873	36.6183	36.61
	45 4-Methyl-2-Pentanone	43	6.918	6.851	(0.845)	1504	0.93380	0.93(a)
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	292251	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	318033	56.0654	56.06
	52 2-Hexanone	43	6.918	7.214	(0.845)	1571	0.58873	0.58(a)

	58 1-Chlorohexane	55	8.185	8.197 (1.475)	2909	1.62280	1.62(a)
$	69 4-Bromofluorobenzene	95	9.194	9.194 (1.123)	111843	50.1809	50.18

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
* 70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	157945	50.0000	
71 1,2,3-Trichloropropane	75	9.194	9.362	(0.904)	53853	27.4477	27.44
86 Benzyl Chloride	91	10.314	10.311	(1.260)	13833	0.30603	0.30(a)
138 Freon TF	101	2.330	2.337	(0.484)	1008940	834.246	834.24(A)
141 Cyclohexane	56	4.815	4.785	(1.001)	3652	0.73161	0.73(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\U240622.b\U62222.D Page 1
Report Date: 24-Jun-2024 11:23

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240622.b\U62222.D
Lab Smp Id: HS24060905-08MS Client Smp ID: HS24060905-08MS
Inj Date : 22-JUN-2024 21:03
Operator : TS Inst ID: VOA9.i
Smp Info : HS24060905-08MS;HS24060905-08MS;;3;;MS
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240622.b\8260C.m
Meth Date : 23-Jun-2024 01:53 Quant Type: ISTD
Cal Date : 20-JUN-2024 14:15 Cal File: U62010.D
Als bottle: 21 QC Sample: MS
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	4.815	4.815	(1.000)	232258	50.0000	
2 Dichlorodifluoromethane	85	1.172	1.168	(0.243)	26325	15.8707	15.87
3 Chloromethane	50	1.303	1.299	(0.271)	60310	15.1092	15.10
4 Propionitrile	54	4.339	4.339	(0.901)	41244	189.967	189.96(a)
5 Vinyl Chloride	62	1.385	1.378	(0.288)	33102	16.1619	16.16
6 Bromomethane	94	1.614	1.606	(0.335)	15492	19.0846	19.08
7 Chloroethane	64	1.700	1.696	(0.353)	20097	14.9431	14.94
8 Trichlorofluoromethane	101	1.899	1.895	(0.394)	37849	17.0143	17.01
9 Acrolein	56	2.270	2.262	(0.471)	2750	35.0345	35.03
10 Acetone	43	2.412	2.412	(0.501)	18121	25.0801	25.08
11 1,1-Dichloroethene	96	2.334	2.330	(0.485)	21002	15.5004	15.50
12 Isobutyl Alcohol	43	5.284	5.284	(1.097)	84978	370.623	370.62(a)
13 Acetonitrile	39	2.675	2.671	(0.556)	31200	169.064	169.06(a)
14 Allyl Chloride	41	2.675	2.671	(0.556)	70416	16.3908	16.39(a)
15 Iodomethane	142	2.469	2.465	(0.513)	16372	32.8550	32.85
16 Acrylonitrile	53	3.068	3.068	(0.637)	19889	34.7701	34.77
17 Methylene Chloride	84	2.799	2.795	(0.581)	29121	16.4982	16.49
18 Methyl tert-butyl ether	73	3.083	3.083	(0.640)	67727	17.2327	17.23
19 Carbon Disulfide	76	2.521	2.517	(0.524)	110347	29.5526	29.55
20 trans-1,2-Dichloroethene	96	3.061	3.057	(0.636)	22665	15.5643	15.56

21 Vinyl Acetate	43	4.343	4.343 (0.902)	27622	33.8872	33.88
22 1,1-Dichloroethane	63	3.515	3.511 (0.730)	43061	15.4814	15.48

Data File: \\nahstws005\Target\chem\voa9.i\U240622.b\U62222.D Page 2
Report Date: 24-Jun-2024 11:23

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	23 Chloroprene	53	3.608	3.608	(0.749)	35502	15.2355	15.23
	24 2-Butanone	43	4.268	4.264	(0.886)	26346	32.8234	32.82
	25 Methacrylonitrile	41	4.497	4.493	(0.934)	15309	15.5962	15.59(a)
	26 2,2-Dichloropropane	77	4.182	4.182	(0.868)	30881	14.8349	14.83
	27 cis-1,2-Dichloroethene	96	4.197	4.193	(0.872)	26579	15.5752	15.57
	28 Chloroform	83	4.575	4.572	(0.950)	46487	16.3463	16.34
	29 Bromochloromethane	128	4.470	4.467	(0.928)	14270	15.3470	15.34
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	86147	55.8392	55.83
	31 1,1,1-Trichloroethane	97	4.744	4.740	(0.985)	37078	17.1948	17.19
	32 1,1-Dichloropropene	75	4.920	4.920	(0.886)	33009	16.1058	16.10
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	36817	16.1382	16.13
	34 Carbon Tetrachloride	117	4.913	4.909	(0.885)	28243	16.4414	16.44
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	105053	53.3880	53.38
*	36 1,4-Difluorobenzene	114	5.554	5.550	(1.000)	335976	50.0000	
	37 Benzene	78	5.138	5.138	(0.925)	104930	15.1751	15.17
	38 Trichloroethene	130	5.790	5.786	(1.043)	26812	15.9783	15.97
	39 Bromodichloromethane	83	6.277	6.277	(1.130)	28159	14.4088	14.40
	40 Methyl Methacrylate	41	5.827	5.824	(1.210)	10793	17.7579	17.75(a)
	41 2-Chloroethylvinyl ether	63	6.577	6.577	(1.184)	1952	49.2241	49.22(M)
	42 1,2-Dichloropropane	63	6.011	6.007	(1.082)	25521	13.9347	13.93
	43 2-Nitropropane	43	6.506	6.506	(1.351)	5523	15.0401	15.04
	44 Dibromomethane	93	6.120	6.120	(1.102)	15553	14.5487	14.54
	45 4-Methyl-2-Pentanone	43	6.855	6.855	(0.837)	48851	30.6061	30.60
	46 cis-1,3-Dichloropropene	75	6.693	6.690	(1.205)	32042	14.0331	14.03
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	289618	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	314426	55.9334	55.93(M)
	49 Ethyl Methacrylate	69	7.289	7.289	(1.312)	33207	15.5630	15.56(a)
	50 Toluene	91	6.982	6.982	(0.853)	104606	15.8632	15.86
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	25623	14.0450	14.04
	52 2-Hexanone	43	7.218	7.218	(0.882)	39901	36.6640	36.66
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	19802	15.5298	15.52
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	40630	15.1614	15.16
	55 Dibromochloromethane	129	7.691	7.691	(0.940)	21843	16.4190	16.41
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	21222	17.1957	17.19
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	22727	16.1470	16.14
	58 1-Chlorohexane	55	8.197	8.197	(1.476)	19479	14.5441	14.54
	59 Chlorobenzene	112	8.212	8.208	(1.003)	67738	16.3786	16.37
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	21920	15.4728	15.47
	61 Ethylbenzene	106	8.305	8.305	(1.015)	33085	16.2121	16.21
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	81046	33.2636	33.26
	63 o-Xylene	106	8.748	8.748	(1.069)	39964	16.6446	16.64
	64 Styrene	104	8.763	8.763	(1.071)	65789	16.3889	16.38
	66 Bromoform	173	8.920	8.920	(1.090)	13428	15.9006	15.90
	67 Isopropylbenzene	105	9.063	9.063	(1.107)	100824	16.9256	16.92
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	33506	16.3772	16.37
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	119721	54.2039	54.20
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	163687	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	30327	15.2904	15.29
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	5794	14.3167	14.31(a)
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	113917	16.0940	16.09
	74 Bromobenzene	156	9.317	9.317	(0.916)	30408	15.8117	15.81
	75 1,3,5-Trimethylbenzene	105	9.565	9.565	(0.940)	72869	14.7431	14.74

76	2-Chlorotoluene	91	9.482	9.482 (0.932)	72940	15.2272	15.22
77	4-Chlorotoluene	91	9.576	9.576 (0.941)	81630	15.0156	15.01

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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	9.839	9.838	(0.967)	73361	17.0053	17.00
79	1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	69161	13.2778	13.27
81	sec-Butylbenzene	105	10.022	10.022	(0.985)	92764	16.1460	16.14
82	p-Isopropyltoluene	119	10.146	10.146	(0.997)	75716	14.8740	14.87
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	52942	14.9612	14.96
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	55053	15.8222	15.82
86	Benzyl Chloride	91	10.311	10.311	(1.260)	42989	12.5601	12.56
87	n-Butylbenzene	91	10.495	10.495	(1.032)	63783	13.9727	13.97
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	52183	14.8111	14.81
89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	4427	18.1814	18.18
90	1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	30329	14.2285	14.22
91	Hexachlorobutadiene	225	12.002	12.001	(1.180)	14571	15.4166	15.41
92	Naphthalene	128	12.069	12.069	(1.186)	64246	14.3723	14.37
93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	30046	15.3944	15.39
146	Methyl acetate	43	2.720	2.716	(0.565)	20979	15.7763	15.77
138	Freon TF	101	2.334	2.334	(0.485)	20301	15.9265	15.92
141	Cyclohexane	56	4.782	4.782	(0.993)	36779	15.7751	15.77
142	Tetrahydrofuran	42	4.549	4.545	(0.945)	9927	36.0894	36.08
147	Methylcyclohexane	55	5.947	5.947	(1.071)	62024	17.3854	17.38
135	1,4-Dioxane	88	6.169	6.169	(1.281)	6473	351.481	351.48
132	n-Butanol	56	5.827	5.824	(1.210)	15412	372.596	372.59(a)
136	n-Hexane	57	3.342	3.338	(0.694)	20829	13.9864	13.98
139	Diethyl ether	59	2.150	2.146	(0.447)	19240	16.4351	16.43
148	Tert-butyl alcohol	59	2.978	2.978	(0.619)	48484	356.727	356.72
149	Isopropyl alcohol	45	2.574	2.574	(0.534)	38014	362.116	362.11
156	Diisopropyl ether	45	3.623	3.623	(0.752)	84934	15.1614	15.16
162	Butyl acrylate	55	8.733	8.733	(1.067)	43939	16.4816	16.48
164	Dicyclopentadiene	66	10.202	10.202	(1.003)	127379	17.9733	17.97
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	71304	15.2306	15.23
167	Ethanol	45	2.090	2.094	(0.434)	7003	341.057	341.05
172	tert-Butyl formate	59	5.246	5.243	(1.090)	41873	38.4648	38.46
151	4-Methyl-2-pentanol	45	7.218	7.218	(1.300)	145899	314.882	314.88
140	1,3-Butadiene	54	1.408	1.404	(0.292)	31303	15.6957	15.69
182	Epichlorohydrin	57	6.633	6.630	(1.194)	4129	77.1400	77.13
M 94	1,2-Dichloroethylene (total)	96				49244	31.1401	31.14
M 95	Xylenes (total)	106				121010	47.4062	47.40
145	alpha-Methylstyrene	118	9.756	9.756	(0.959)	26560	14.9827	14.98
131	Methyl Acrylate	55	4.373	4.369	(0.908)	30323	15.7537	15.75
189	n-Butyl acetate	43	7.706	7.705	(0.941)	37870	16.4003	16.40
134	Cyclohexanone	55	9.156	9.152	(0.900)	19217	224.985	224.98(a)
185	Isoprene	39	2.157	2.154	(0.448)	5310	15.7463	15.74
188	Isopropyl acetate	43	5.284	5.284	(0.951)	85989	19.1400	19.13
150	Allyl alcohol	57	3.342	3.338	(0.694)	20829	279.728	279.72
194	Acetaldehyde	44	1.468	1.460	(0.305)	66247	170.630	170.62
200	Dimethyl Disulfide	94	6.746	6.746	(0.824)	14308	15.6316	15.63
133	Ethyl Acrylate	55	5.947	5.947	(1.235)	62024	16.9768	16.97
163	Butyl methacrylate	41	9.651	9.651	(0.949)	27919	16.4232	16.42
159	Propylene oxide	43	2.206	2.202	(0.458)	4705	44.3421	44.34
203	2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	24072	15.0182	15.01
204	Tetrahydrothiophene	60	7.672	7.672	(0.937)	27840	16.9155	16.91(A)
205	sec-Butyl Ether	57	7.218	7.218	(0.882)	32425	10.0202	10.02(A)
187	n-Amyl acetate	43	8.931	8.931	(1.091)	39533	15.4296	15.42

206 2-Chloropropene	41	1.929	1.925 (0.401)	57494	24.1134	24.11(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.

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ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240622.b\U62223.D
Lab Smp Id: HS24060905-08MSD Client Smp ID: HS24060905-08MSD
Inj Date : 22-JUN-2024 21:24
Operator : TS Inst ID: VOA9.i
Smp Info : HS24060905-08MSD;HS24060905-08MSD;;3;;MSD
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240622.b\8260C.m
Meth Date : 23-Jun-2024 01:53 Quant Type: ISTD
Cal Date : 20-JUN-2024 14:15 Cal File: U62010.D
Als bottle: 21 QC Sample: MSD
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	4.815	4.815	(1.000)	234851	50.0000	
2 Dichlorodifluoromethane	85	1.168	1.168	(0.243)	26355	15.7133	15.71
3 Chloromethane	50	1.299	1.299	(0.270)	59317	14.6475	14.64
4 Propionitrile	54	4.339	4.339	(0.901)	38644	175.609	175.60(a)
5 Vinyl Chloride	62	1.378	1.378	(0.286)	31657	15.2926	15.29
6 Bromomethane	94	1.610	1.606	(0.334)	15334	18.6358	18.63
7 Chloroethane	64	1.696	1.696	(0.352)	19381	14.2188	14.21
8 Trichlorofluoromethane	101	1.891	1.895	(0.393)	37952	16.8722	16.87
9 Acrolein	56	2.266	2.262	(0.471)	2434	29.8518	29.85
10 Acetone	43	2.409	2.412	(0.500)	20649	29.2545	29.25
11 1,1-Dichloroethene	96	2.330	2.330	(0.484)	21144	15.4330	15.43
12 Isobutyl Alcohol	43	5.284	5.284	(1.097)	82230	354.678	354.67(a)
13 Acetonitrile	39	2.671	2.671	(0.555)	31161	166.860	166.86(a)
14 Allyl Chloride	41	2.671	2.671	(0.555)	72393	16.6741	16.67(a)
15 Iodomethane	142	2.465	2.465	(0.512)	16430	32.6162	32.61
16 Acrylonitrile	53	3.065	3.068	(0.636)	20131	34.8051	34.80
17 Methylene Chloride	84	2.795	2.795	(0.580)	28391	15.8423	15.84
18 Methyl tert-butyl ether	73	3.080	3.083	(0.640)	71365	17.9402	17.94
19 Carbon Disulfide	76	2.517	2.517	(0.523)	110480	29.2615	29.26
20 trans-1,2-Dichloroethene	96	3.057	3.057	(0.635)	22899	15.5509	15.55

22 1,1-Dichloroethane	63	3.511	3.511 (0.729)	42884	15.2356	15.23
23 Chloroprene	53	3.604	3.608 (0.749)	32796	13.8970	13.89

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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	24 2-Butanone	43	4.268	4.264	(0.886)	24679	30.4178	30.41
	25 Methacrylonitrile	41	4.493	4.493	(0.933)	15178	15.3078	15.30(a)
	26 2,2-Dichloropropane	77	4.182	4.182	(0.868)	28477	13.5785	13.57
	27 cis-1,2-Dichloroethene	96	4.193	4.193	(0.871)	25367	14.6797	14.67
	28 Chloroform	83	4.572	4.572	(0.949)	43786	15.1661	15.16
	29 Bromochloromethane	128	4.467	4.467	(0.928)	13938	14.8244	14.82
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	83975	53.8304	53.83
	31 1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	35085	16.0909	16.09
	32 1,1-Dichloropropene	75	4.920	4.920	(0.886)	30829	15.3119	15.31
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	33588	14.9051	14.90
	34 Carbon Tetrachloride	117	4.909	4.909	(0.884)	27309	16.1828	16.18
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	99489	50.0022	50.00
*	36 1,4-Difluorobenzene	114	5.554	5.550	(1.000)	330055	50.0000	
	37 Benzene	78	5.138	5.138	(0.925)	95877	14.1146	14.11
	38 Trichloroethene	130	5.786	5.786	(1.042)	25574	15.5140	15.51
	39 Bromodichloromethane	83	6.277	6.277	(1.130)	28578	14.8855	14.88
	40 Methyl Methacrylate	41	5.824	5.824	(1.209)	10466	17.0298	17.02(a)
	41 2-Chloroethylvinyl ether	63	6.577	6.577	(1.184)	1680	44.4154	44.41(M)
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	25824	14.3530	14.35
	43 2-Nitropropane	43	6.506	6.506	(1.351)	6255	16.8454	16.84
	44 Dibromomethane	93	6.120	6.120	(1.102)	15728	14.9763	14.97
	45 4-Methyl-2-Pentanone	43	6.854	6.855	(0.837)	49139	30.0280	30.02
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	31624	14.0985	14.09
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	296934	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	322626	55.9781	55.97(M)
	49 Ethyl Methacrylate	69	7.289	7.289	(1.312)	33741	16.0969	16.09(a)
	50 Toluene	91	6.982	6.982	(0.853)	103448	15.3011	15.30
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	25336	14.1223	14.12
	52 2-Hexanone	43	7.214	7.218	(0.881)	39455	35.3298	35.32
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	19591	14.9858	14.98
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	40605	14.7788	14.77
	55 Dibromochloromethane	129	7.690	7.691	(0.940)	21310	15.6237	15.62
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	20328	16.0655	16.06
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	21983	15.2335	15.23
	58 1-Chlorohexane	55	8.197	8.197	(1.476)	19060	14.4837	14.48
	59 Chlorobenzene	112	8.208	8.208	(1.003)	66109	15.5532	15.55
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	22210	15.2912	15.29
	61 Ethylbenzene	106	8.305	8.305	(1.015)	31801	15.1990	15.19
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	80055	32.0473	32.04
	63 o-Xylene	106	8.748	8.748	(1.069)	39392	16.0022	16.00
	64 Styrene	104	8.763	8.763	(1.071)	65318	15.8707	15.87
	66 Bromoform	173	8.920	8.920	(1.090)	12947	15.0190	15.01
	67 Isopropylbenzene	105	9.062	9.063	(1.107)	98932	16.1987	16.19
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	32978	15.8542	15.85
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	119286	52.6763	52.67
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	166314	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	30472	15.1300	15.12
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	5920	14.2676	14.26(a)
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	107814	14.9912	14.99
	74 Bromobenzene	156	9.317	9.317	(0.916)	29304	14.9970	14.99
	75 1,3,5-Trimethylbenzene	105	9.565	9.565	(0.940)	73064	14.5713	14.57
	76 2-Chlorotoluene	91	9.482	9.482	(0.932)	71395	14.6692	14.66

77 4-Chlorotoluene	91	9.576	9.576 (0.941)	81473	14.7500	14.74
78 tert-Butylbenzene	119	9.838	9.838 (0.967)	72000	16.4261	16.42

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	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	9.880	9.880	(0.971)	68060	12.8600	12.86
81	sec-Butylbenzene	105	10.022	10.022	(0.985)	90877	15.5677	15.56
82	p-Isopropyltoluene	119	10.146	10.146	(0.997)	74925	14.5291	14.52
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	51772	14.3994	14.39
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	53605	15.1364	15.13
86	Benzyl Chloride	91	10.311	10.311	(1.260)	42149	11.7739	11.77
87	n-Butylbenzene	91	10.494	10.495	(1.032)	65895	14.1845	14.18
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	52270	14.6014	14.60
89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	4336	17.5445	17.54
90	1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	31715	14.6437	14.64
91	Hexachlorobutadiene	225	11.998	12.001	(1.179)	14970	15.5886	15.58
92	Naphthalene	128	12.069	12.069	(1.186)	70154	15.2997	15.29
93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	31074	15.6696	15.66
146	Methyl acetate	43	2.716	2.716	(0.564)	21316	15.8653	15.86
138	Freon TF	101	2.330	2.334	(0.484)	20584	15.9717	15.97
141	Cyclohexane	56	4.781	4.782	(0.993)	34652	14.6328	14.63
142	Tetrahydrofuran	42	4.545	4.545	(0.944)	9010	32.3940	32.39
147	Methylcyclohexane	55	5.947	5.947	(1.071)	59142	16.8750	16.87
135	1,4-Dioxane	88	6.168	6.169	(1.281)	6002	319.302	319.30
132	n-Butanol	56	5.824	5.824	(1.209)	14342	343.176	343.17(a)
136	n-Hexane	57	3.338	3.338	(0.693)	21389	14.2038	14.20
139	Diethyl ether	59	2.146	2.146	(0.446)	20441	17.3184	17.31
148	Tert-butyl alcohol	59	2.975	2.978	(0.618)	51110	372.431	372.43
149	Isopropyl alcohol	45	2.570	2.574	(0.534)	37653	354.404	354.40
156	Diisopropyl ether	45	3.619	3.623	(0.752)	79668	14.0643	14.06
162	Butyl acrylate	55	8.733	8.733	(1.067)	43868	16.0495	16.04
164	Dicyclopentadiene	66	10.202	10.202	(1.003)	121795	16.9140	16.91
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	71335	14.9966	14.99
167	Ethanol	45	2.090	2.094	(0.434)	7582	366.842	366.84
172	tert-Butyl formate	59	5.243	5.243	(1.089)	47734	43.2789	43.27
151	4-Methyl-2-pentanol	45	7.214	7.218	(1.299)	146329	321.476	321.47
140	1,3-Butadiene	54	1.404	1.404	(0.292)	31576	15.6578	15.65
182	Epichlorohydrin	57	6.630	6.630	(1.194)	4873	91.2224	91.22
M 94	1,2-Dichloroethylene (total)	96				48266	30.1546	30.15
M 95	Xylenes (total)	106				119447	47.6334	47.63
145	alpha-Methylstyrene	118	9.756	9.756	(0.959)	26508	14.7331	14.73
131	Methyl Acrylate	55	4.369	4.369	(0.907)	29326	15.0675	15.06
189	n-Butyl acetate	43	7.705	7.705	(0.941)	38436	16.2353	16.23
134	Cyclohexanone	55	9.152	9.152	(0.900)	18040	207.302	207.30(a)
185	Isoprene	39	2.154	2.154	(0.447)	5404	15.8481	15.84
188	Isopropyl acetate	43	5.284	5.284	(0.951)	82367	18.6626	18.66
150	Allyl alcohol	57	3.338	3.338	(0.693)	21389	284.077	284.07
194	Acetaldehyde	44	1.460	1.460	(0.303)	68639	174.839	174.83
200	Dimethyl Disulfide	94	6.746	6.746	(0.824)	14634	15.5982	15.59
133	Ethyl Acrylate	55	5.947	5.947	(1.235)	59142	16.0092	16.00
163	Butyl methacrylate	41	9.651	9.651	(0.949)	28739	16.6465	16.64
159	Propylene oxide	43	2.202	2.202	(0.457)	3752	34.9701	34.97
203	2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	24775	15.1937	15.19
204	Tetrahydrothiophene	60	7.672	7.672	(0.937)	27964	16.5722	16.57(A)
205	sec-Butyl Ether	57	7.218	7.218	(0.882)	32085	9.67085	9.67(A)
187	n-Amyl acetate	43	8.931	8.931	(1.091)	42007	15.9912	15.99
206	2-Chloropropene	41	1.925	1.925	(0.400)	56763	23.5440	23.54(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\U240622.b\U62231.D Page 1
Report Date: 24-Jun-2024 10:50

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240622.b\U62231.D
Lab Smp Id: HS24060694-09
Inj Date : 23-JUN-2024 00:11
Operator : TS   Inst ID: VOA9.i
Smp Info : HS24060694-09
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240622.b\8260C.m
Meth Date : 23-Jun-2024 01:53   Quant Type: ISTD
Cal Date : 20-JUN-2024 14:15   Cal File: U62010.D
Als bottle: 28
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	4.819	4.815	(1.000)	226023	50.0000	
$ 30 Dibromofluoromethane	113	4.748	4.748	(0.985)	79478	52.9376	52.93
$ 35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	96844	50.5739	50.57
* 36 1,4-Difluorobenzene	114	5.554	5.550	(1.000)	316060	50.0000	
* 47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	283212	50.0000	
$ 48 Toluene-d8	98	6.922	6.922	(0.846)	308272	56.0791	56.07
$ 69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	107443	49.7453	49.74
* 70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	152681	50.0000	

Data File: \\nahstws005\Target\chem\voa9.i\U240622.b\U62232.D Page 1
Report Date: 23-Jun-2024 00:48

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240622.b\U62232.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 23-JUN-2024 00:32
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\U240622.b\8260C.m
Meth Date : 23-Jun-2024 00:48 Quant Type: ISTD
Cal Date : 20-JUN-2024 14:15 Cal File: U62010.D
Als bottle: 29 Continuing Calibration Sample
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	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.815	4.815	(1.000)	234227	50.0000	
2 Dichlorodifluoromethane	85	1.164	1.164	(0.242)	72063	50.0000	43.07
3 Chloromethane	50	1.295	1.295	(0.269)	155230	50.0000	41.99
4 Propionitrile	54	4.336	4.336	(0.900)	95572	500.000	441.61
5 Vinyl Chloride	62	1.378	1.378	(0.286)	89302	50.0000	43.02
6 Bromomethane	94	1.606	1.606	(0.334)	38318	50.0000	49.43
7 Chloroethane	64	1.693	1.693	(0.352)	55152	50.0000	41.98
8 Trichlorofluoromethane	101	1.891	1.891	(0.393)	104782	50.0000	46.70
9 Acrolein	56	2.262	2.262	(0.470)	7124	100.000	98.51
10 Acetone	43	2.409	2.409	(0.500)	49101	100.000	80.55
11 1,1-Dichloroethene	96	2.330	2.330	(0.484)	57687	50.0000	42.21
12 Isobutyl Alcohol	43	5.284	5.284	(1.097)	179268	1000.00	775.28
13 Acetonitrile	39	2.667	2.667	(0.554)	75277	500.000	419.02
14 Allyl Chloride	41	2.671	2.671	(0.555)	178699	50.0000	42.20
15 Iodomethane	142	2.465	2.465	(0.512)	45348	100.000	85.71
16 Acrylonitrile	53	3.065	3.065	(0.636)	49984	100.000	87.41
17 Methylene Chloride	84	2.791	2.791	(0.580)	71686	50.0000	43.33
18 Methyl tert-butyl ether	73	3.080	3.080	(0.640)	170277	50.0000	42.33
19 Carbon Disulfide	76	2.517	2.517	(0.523)	328792	100.000	87.31
20 trans-1,2-Dichloroethene	96	3.053	3.053	(0.634)	63394	50.0000	44.26

21 Vinyl Acetate	43	4.339	4.339 (0.901)	70794	100.000	86.61
22 1,1-Dichloroethane	63	3.511	3.511 (0.729)	123341	50.0000	45.43

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
23	Chloroprene	53	3.605	3.605	(0.749)	105097	50.0000	45.21
24	2-Butanone	43	4.264	4.264	(0.886)	65181	100.000	80.31
25	Methacrylonitrile	41	4.493	4.493	(0.933)	38757	50.0000	37.98(a)
26	2,2-Dichloropropane	77	4.178	4.178	(0.868)	77556	50.0000	36.10
27	cis-1,2-Dichloroethene	96	4.193	4.193	(0.871)	73457	50.0000	43.33
28	Chloroform	83	4.572	4.572	(0.949)	120952	50.0000	43.56
29	Bromochloromethane	128	4.467	4.467	(0.928)	38307	50.0000	40.85
$ 30	Dibromofluoromethane	113	4.748	4.748	(0.986)	83905	50.0000	53.92
31	1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	98229	50.0000	45.17
32	1,1-Dichloropropene	75	4.920	4.920	(0.887)	86585	50.0000	43.94
33	1,2-Dichloroethane	62	5.175	5.175	(0.932)	94361	50.0000	44.93
34	Carbon Tetrachloride	117	4.909	4.909	(0.885)	79714	50.0000	48.26
$ 35	1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	97238	50.0000	49.00
* 36	1,4-Difluorobenzene	114	5.550	5.550	(1.000)	322996	50.0000	
37	Benzene	78	5.138	5.138	(0.926)	273308	50.0000	41.11
38	Trichloroethene	130	5.786	5.786	(1.043)	72815	50.0000	45.13
39	Bromodichloromethane	83	6.277	6.277	(1.131)	84756	50.0000	45.11
40	Methyl Methacrylate	41	5.824	5.824	(1.209)	26322	50.0000	42.94
41	2-Chloroethylvinyl ether	63	6.577	6.577	(1.185)	6256	100.000	131.50
42	1,2-Dichloropropane	63	6.007	6.007	(1.082)	73019	50.0000	41.47
43	2-Nitropropane	43	6.506	6.506	(1.351)	15810	50.0000	42.69
44	Dibromomethane	93	6.120	6.120	(1.103)	44243	50.0000	43.04
45	4-Methyl-2-Pentanone	43	6.855	6.855	(0.837)	135389	100.000	83.95
46	cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	97696	50.0000	44.50
* 47	Chlorobenzene-d5	117	8.185	8.185	(1.000)	292626	50.0000	
$ 48	Toluene-d8	98	6.922	6.922	(0.846)	326893	50.0000	57.55
49	Ethyl Methacrylate	69	7.289	7.289	(1.313)	82511	50.0000	40.22
50	Toluene	91	6.982	6.982	(0.853)	293923	50.0000	44.11
51	trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	80018	50.0000	40.65
52	2-Hexanone	43	7.218	7.218	(0.882)	95429	100.000	87.98
53	1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	54073	50.0000	41.97
54	1,3-Dichloropropane	76	7.499	7.499	(0.916)	113853	50.0000	42.04
55	Dibromochloromethane	129	7.691	7.691	(0.940)	67482	50.0000	50.20
56	Tetrachloroethene	164	7.458	7.458	(0.911)	58769	50.0000	47.12
57	1,2-Dibromoethane	107	7.784	7.784	(0.951)	64385	50.0000	45.27
58	1-Chlorohexane	55	8.197	8.197	(1.477)	49469	50.0000	39.62
59	Chlorobenzene	112	8.208	8.208	(1.003)	188655	50.0000	46.52
60	1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	64812	50.0000	45.27
61	Ethylbenzene	106	8.305	8.305	(1.015)	92446	50.0000	44.83
62	m,p-Xylenes	106	8.410	8.410	(1.027)	237578	100.000	96.50
63	o-Xylene	106	8.748	8.748	(1.069)	116771	50.0000	48.13
64	Styrene	104	8.763	8.763	(1.071)	195770	50.0000	48.26
66	Bromoform	173	8.920	8.920	(1.090)	42396	50.0000	46.58
67	Isopropylbenzene	105	9.063	9.063	(1.107)	293004	50.0000	48.68
68	1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	89983	50.0000	43.58
$ 69	4-Bromofluorobenzene	95	9.194	9.194	(1.123)	119799	50.0000	53.68
* 70	1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	167214	50.0000	
71	1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	86923	50.0000	41.41
72	trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	15985	50.0000	39.09
73	n-Propylbenzene	91	9.411	9.411	(0.925)	333642	50.0000	46.14
74	Bromobenzene	156	9.318	9.318	(0.916)	85369	50.0000	43.45
75	1,3,5-Trimethylbenzene	105	9.565	9.565	(0.940)	230121	50.0000	42.03

76	2-Chlorotoluene	91	9.482	9.482 (0.932)	209450	50.0000	42.80
77	4-Chlorotoluene	91	9.576	9.576 (0.941)	238716	50.0000	42.98

Data File: \\nahstws005\Target\chem\voa9.i\U240622.b\U62232.D Page 3
Report Date: 23-Jun-2024 00:48

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.839	9.839	(0.967)	210238	50.0000	47.70
79	1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	214959	50.0000	40.39
81	sec-Butylbenzene	105	10.022	10.022	(0.985)	272506	50.0000	46.43
82	p-Isopropyltoluene	119	10.146	10.146	(0.997)	234096	50.0000	41.67
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	150523	50.0000	41.63
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	156118	50.0000	45.04
86	Benzyl Chloride	91	10.311	10.311	(1.260)	87056	50.0000	30.62
87	n-Butylbenzene	91	10.495	10.495	(1.032)	196298	50.0000	39.35
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	149174	50.0000	41.44
89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	12636	50.0000	49.00
90	1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	97591	50.0000	44.81
91	Hexachlorobutadiene	225	11.998	11.998	(1.179)	42394	50.0000	43.90
92	Naphthalene	128	12.069	12.069	(1.186)	219227	50.0000	43.42
93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	92785	50.0000	46.53
146	Methyl acetate	43	2.712	2.712	(0.563)	58303	50.0000	48.02
138	Freon TF	101	2.330	2.330	(0.484)	56551	50.0000	44.92
141	Cyclohexane	56	4.782	4.782	(0.993)	90345	50.0000	39.81
142	Tetrahydrofuran	42	4.542	4.542	(0.943)	24789	100.000	89.36
147	Methylcyclohexane	55	5.947	5.947	(1.072)	151380	50.0000	44.13
135	1,4-Dioxane	88	6.169	6.169	(1.281)	15561	1000.00	879.16
132	n-Butanol	56	5.824	5.824	(1.209)	36302	1000.00	855.34
136	n-Hexane	57	3.335	3.335	(0.693)	60027	50.0000	39.96
139	Diethyl ether	59	2.143	2.143	(0.445)	47929	50.0000	42.05
148	Tert-butyl alcohol	59	2.975	2.975	(0.618)	119432	1000.00	889.50
149	Isopropyl alcohol	45	2.570	2.570	(0.534)	94136	1000.00	911.50
156	Diisopropyl ether	45	3.620	3.620	(0.752)	219919	50.0000	38.92
162	Butyl acrylate	55	8.733	8.733	(1.067)	110313	50.0000	40.95
164	Dicyclopentadiene	66	10.202	10.202	(1.003)	280148	50.0000	38.69
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	187493	50.0000	39.20
167	Ethanol	45	2.090	2.090	(0.434)	17730	1000.00	891.77
172	tert-Butyl formate	59	5.243	5.243	(1.089)	117278	100.000	100.93
151	4-Methyl-2-pentanol	45	7.218	7.218	(1.301)	383321	1000.00	860.53
140	1,3-Butadiene	54	1.404	1.404	(0.292)	88654	50.0000	44.07
182	Epichlorohydrin	57	6.630	6.630	(1.195)	11515	200.000	203.58
M 94	1,2-Dichloroethylene (total)	96				136851	100.000	87.52
M 95	Xylenes (total)	106				354349	150.000	144.39
145	alpha-Methylstyrene	118	9.756	9.756	(0.959)	82120	50.0000	42.90
131	Methyl Acrylate	55	4.369	4.369	(0.907)	74284	50.0000	38.26
189	n-Butyl acetate	43	7.706	7.706	(0.941)	101981	50.0000	43.71
134	Cyclohexanone	55	9.153	9.153	(0.900)	47100	1000.00	547.93
185	Isoprene	39	2.150	2.150	(0.447)	14550	50.0000	42.78
188	Isopropyl acetate	43	5.284	5.284	(0.952)	179126	50.0000	41.47
150	Allyl alcohol	57	3.335	3.335	(0.693)	60027	1000.00	799.36
194	Acetaldehyde	44	1.460	1.460	(0.303)	122485	200.000	312.82
200	Dimethyl Disulfide	94	6.746	6.746	(0.824)	44925	50.0000	42.53
133	Ethyl Acrylate	55	5.947	5.947	(1.235)	151380	50.0000	41.08
163	Butyl methacrylate	41	9.651	9.651	(0.949)	66961	50.0000	39.37
159	Propylene oxide	43	2.199	2.199	(0.457)	8986	100.000	83.97
178	Ethylene oxide	44	1.599	1.599	(0.332)	195858	100.000	112.63
203	2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	69711	50.0000	39.16
204	Tetrahydrothiophene	60	7.672	7.672	(0.937)	70108	50.0000	42.15(A)
205	sec-Butyl Ether	57	7.218	7.218	(0.882)	78539	50.0000	24.02(A)

187 n-Amyl acetate	43	8.931	8.931 (1.091)	106644	50.0000	41.19
206 2-Chloropropene	41	1.921	1.921 (0.399)	131651	50.0000	54.75(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.

right solutions.
right partner.

RawData

Volatiles by EPA 8260C

Workorder

HS24060694

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

07/24/2024

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\U240624.b\U62401.D Page 1
Report Date: 25-Jun-2024 11:02

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240624.b\U62401.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 24-JUN-2024 10:43
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\U240624.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)	CONCENTRATIONS 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	80144			0.00- 100.00	100.00
9.194	9.180	(0.000)	50	15018			15.00- 40.00	18.74
9.194	9.180	(0.000)	75	38736			30.00- 60.00	48.33
9.194	9.180	(0.000)	96	5448			5.00- 9.00	6.80
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	73728			50.00- 0.00	91.99
9.194	9.180	(0.000)	175	6539			5.00- 9.00	8.87
9.194	9.180	(0.000)	176	70200			95.00- 101.00	95.21
9.194	9.180	(0.000)	177	4767			5.00- 9.00	6.79

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240624.b\U62402.D Page 1
Report Date: 29-Jun-2024 12:38

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240624.b\U62402.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 24-JUN-2024 11:05
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\U240624.b\8260C.m
Meth Date : 29-Jun-2024 12:38 VOA9.i Quant Type: ISTD
Cal Date : 20-JUN-2024 14:15 Cal File: U62010.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: NAHSTW7014

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)	239809	50.0000	
	2 Dichlorodifluoromethane	85	1.168	1.168	(0.243)	74177	50.0000	43.31
	3 Chloromethane	50	1.299	1.299	(0.270)	158407	50.0000	41.84
	4 Propionitrile	54	4.332	4.332	(0.900)	103545	500.000	467.30
	5 Vinyl Chloride	62	1.382	1.382	(0.287)	91618	50.0000	43.11
	6 Bromomethane	94	1.610	1.610	(0.334)	39941	50.0000	50.35
	7 Chloroethane	64	1.700	1.700	(0.353)	56600	50.0000	42.08
	8 Trichlorofluoromethane	101	1.895	1.895	(0.394)	111159	50.0000	48.39
	9 Acrolein	56	2.266	2.266	(0.471)	6023	100.000	80.73(M)
	10 Acetone	43	2.409	2.409	(0.500)	53493	100.000	86.22
	11 1,1-Dichloroethene	96	2.334	2.334	(0.485)	61097	50.0000	43.67
	12 Isobutyl Alcohol	43	5.284	5.284	(1.097)	199883	1000.00	844.32
	13 Acetonitrile	39	2.671	2.671	(0.555)	84029	500.000	457.79
	14 Allyl Chloride	41	2.671	2.671	(0.555)	194281	50.0000	44.87
	15 Iodomethane	142	2.469	2.469	(0.513)	54572	100.000	99.43
	16 Acrylonitrile	53	3.065	3.065	(0.636)	52175	100.000	89.12
	17 Methylene Chloride	84	2.795	2.795	(0.580)	75843	50.0000	44.87
	18 Methyl tert-butyl ether	73	3.080	3.080	(0.640)	187873	50.0000	45.58
	19 Carbon Disulfide	76	2.521	2.521	(0.524)	349061	100.000	90.54
	20 trans-1,2-Dichloroethene	96	3.061	3.061	(0.636)	68395	50.0000	46.67

21 Vinyl Acetate	43	4.339	4.339 (0.901)	73313	100.000	87.61
22 1,1-Dichloroethane	63	3.515	3.515 (0.730)	126802	50.0000	45.62

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240624.b\U62402.D Page 2
Report Date: 29-Jun-2024 12:38

	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)	103021	50.0000	43.27
	24 2-Butanone	43	4.261	4.261	(0.885)	72110	100.000	86.76
	25 Methacrylonitrile	41	4.493	4.493	(0.933)	45333	50.0000	43.29(a)
	26 2,2-Dichloropropane	77	4.182	4.182	(0.868)	103328	50.0000	46.81
	27 cis-1,2-Dichloroethene	96	4.193	4.193	(0.871)	78653	50.0000	45.34
	28 Chloroform	83	4.572	4.572	(0.949)	132369	50.0000	46.63
	29 Bromochloromethane	128	4.470	4.470	(0.928)	40943	50.0000	42.64
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	89390	50.0000	56.11
	31 1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	107343	50.0000	48.21
	32 1,1-Dichloropropene	75	4.920	4.920	(0.886)	95977	50.0000	46.33
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	104658	50.0000	47.46
	34 Carbon Tetrachloride	117	4.913	4.913	(0.885)	85977	50.0000	49.51
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	106368	50.0000	52.35
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	339582	50.0000	
	37 Benzene	78	5.138	5.138	(0.925)	299887	50.0000	42.90
	38 Trichloroethene	130	5.786	5.786	(1.042)	76259	50.0000	44.96
	39 Bromodichloromethane	83	6.277	6.277	(1.130)	93548	50.0000	47.35
	40 Methyl Methacrylate	41	5.820	5.820	(1.209)	31152	50.0000	49.64
	41 2-Chloroethylvinyl ether	63	6.577	6.577	(1.184)	3920	100.000	85.93(M)
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	81322	50.0000	43.93
	43 2-Nitropropane	43	6.506	6.506	(1.351)	18486	50.0000	48.75
	44 Dibromomethane	93	6.120	6.120	(1.102)	46177	50.0000	42.73
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	142329	100.000	83.25
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	109763	50.0000	47.56
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	310203	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	347317	50.0000	57.68
	49 Ethyl Methacrylate	69	7.289	7.289	(1.312)	92402	50.0000	42.84
	50 Toluene	91	6.982	6.982	(0.853)	317217	50.0000	44.91
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	89524	50.0000	43.11
	52 2-Hexanone	43	7.214	7.214	(0.881)	100513	100.000	87.41
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	57819	50.0000	42.33
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	121681	50.0000	42.39
	55 Dibromochloromethane	129	7.691	7.691	(0.940)	71547	50.0000	50.21
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	63255	50.0000	47.85
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	67211	50.0000	44.58
	58 1-Chlorohexane	55	8.197	8.197	(1.476)	54972	50.0000	41.92
	59 Chlorobenzene	112	8.212	8.212	(1.003)	201235	50.0000	46.81
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	70406	50.0000	46.39
	61 Ethylbenzene	106	8.305	8.305	(1.015)	101145	50.0000	46.27
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	254478	100.000	97.51
	63 o-Xylene	106	8.748	8.748	(1.069)	125346	50.0000	48.74
	64 Styrene	104	8.763	8.763	(1.071)	205879	50.0000	47.88
	66 Bromoform	173	8.920	8.920	(1.090)	43848	50.0000	45.50
	67 Isopropylbenzene	105	9.063	9.063	(1.107)	312320	50.0000	48.95
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	94444	50.0000	43.79
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	128430	50.0000	54.28
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	174679	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	90838	50.0000	41.43
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	17539	50.0000	40.46(M)
	73 n-Propylbenzene	91	9.415	9.415	(0.926)	351694	50.0000	46.56
	74 Bromobenzene	156	9.317	9.317	(0.916)	89317	50.0000	43.52
	75 1,3,5-Trimethylbenzene	105	9.565	9.565	(0.940)	244800	50.0000	42.77

76	2-Chlorotoluene	91	9.482	9.482 (0.932)	227677	50.0000	44.53
77	4-Chlorotoluene	91	9.576	9.576 (0.941)	259315	50.0000	44.69

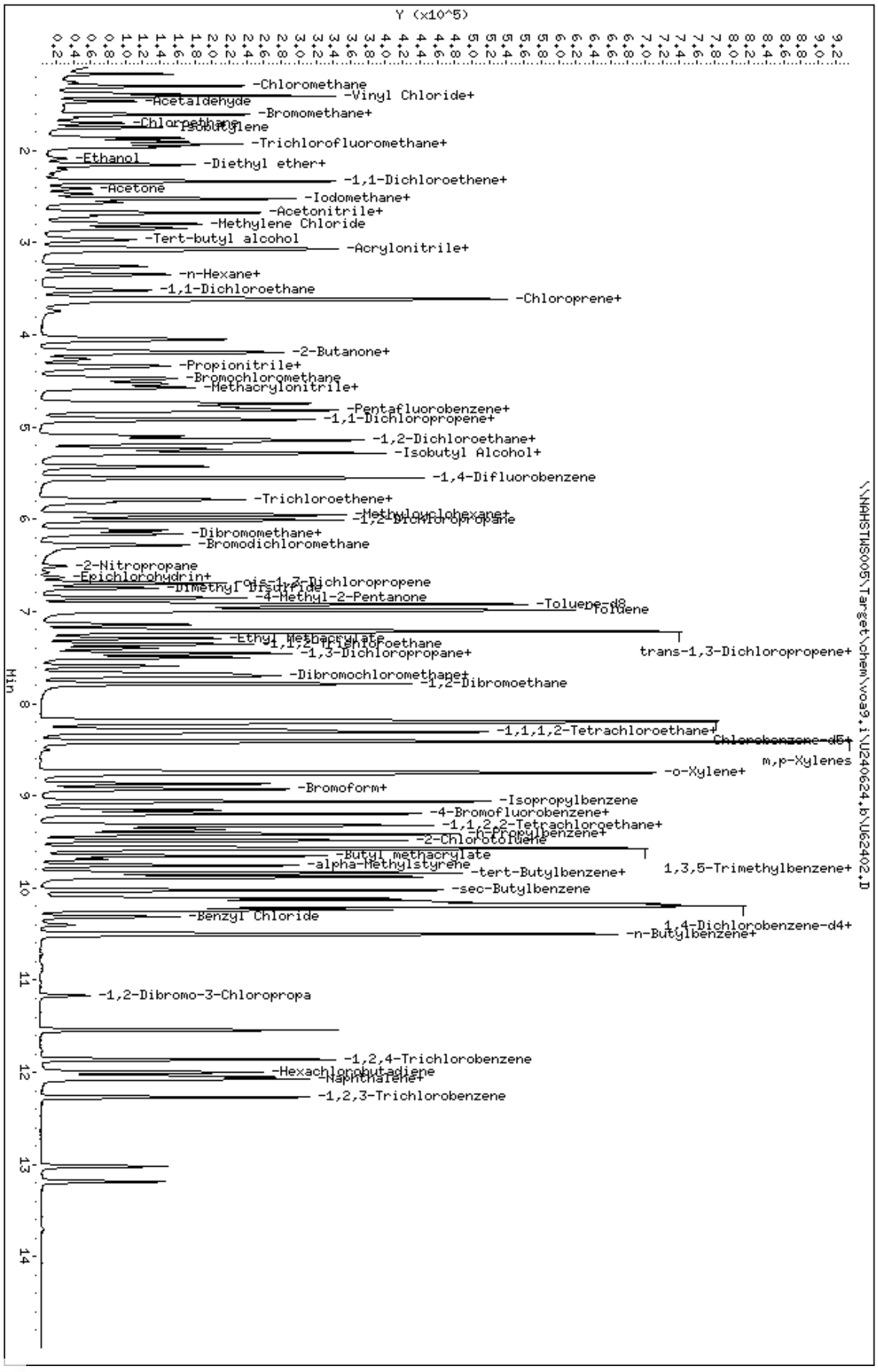
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.839	9.839	(0.967)	222286	50.0000	48.28
79	1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	233215	50.0000	41.95
81	sec-Butylbenzene	105	10.022	10.022	(0.985)	294728	50.0000	48.07
82	p-Isopropyltoluene	119	10.146	10.146	(0.997)	250572	50.0000	42.66
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	162213	50.0000	42.95
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	168265	50.0000	46.49
86	Benzyl Chloride	91	10.311	10.311	(1.260)	103482	50.0000	35.00
87	n-Butylbenzene	91	10.495	10.495	(1.032)	219930	50.0000	42.11
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	157807	50.0000	41.97
89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	11573	50.0000	43.22
90	1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	102173	50.0000	44.91
91	Hexachlorobutadiene	225	12.002	12.002	(1.180)	48143	50.0000	47.73
92	Naphthalene	128	12.069	12.069	(1.186)	212934	50.0000	40.51
93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	92232	50.0000	44.28
146	Methyl acetate	43	2.712	2.712	(0.563)	59457	50.0000	47.82
138	Freon TF	101	2.337	2.337	(0.485)	61252	50.0000	47.55
141	Cyclohexane	56	4.782	4.782	(0.993)	99860	50.0000	43.05
142	Tetrahydrofuran	42	4.538	4.538	(0.942)	27227	100.000	95.86
147	Methylcyclohexane	55	5.947	5.947	(1.071)	173883	50.0000	48.22
135	1,4-Dioxane	88	6.165	6.165	(1.280)	18227	1000.00	1007.54
132	n-Butanol	56	5.820	5.820	(1.209)	42191	1000.00	966.61
136	n-Hexane	57	3.342	3.342	(0.694)	72784	50.0000	47.33
139	Diethyl ether	59	2.146	2.146	(0.446)	53183	50.0000	45.65
148	Tert-butyl alcohol	59	2.963	2.963	(0.615)	122863	1000.00	893.81
149	Isopropyl alcohol	45	2.562	2.562	(0.532)	100575	1000.00	951.85
156	Diisopropyl ether	45	3.619	3.619	(0.752)	237302	50.0000	41.02
162	Butyl acrylate	55	8.733	8.733	(1.067)	121453	50.0000	42.53
164	Dicyclopentadiene	66	10.202	10.202	(1.003)	329153	50.0000	43.52
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	215392	50.0000	43.11
167	Ethanol	45	2.086	2.086	(0.433)	20017	1000.00	985.78
172	tert-Butyl formate	59	5.239	5.239	(1.088)	108803	100.000	92.40
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.299)	406673	1000.00	868.36
140	1,3-Butadiene	54	1.408	1.408	(0.292)	90250	50.0000	43.82
182	Epichlorohydrin	57	6.630	6.630	(1.194)	10910	200.000	185.44
M 94	1,2-Dichloroethylene (total)	96				147048	100.000	(a)
145	alpha-Methylstyrene	118	9.756	9.756	(0.959)	83942	50.0000	42.02
130	Ethyl Acetate	43	4.530	4.530	(0.941)	28334	50.0000	50.14(M)
131	Methyl Acrylate	55	4.365	4.365	(0.907)	83766	50.0000	42.14
189	n-Butyl acetate	43	7.706	7.706	(0.941)	102766	50.0000	41.55
134	Cyclohexanone	55	9.153	9.153	(0.900)	79372	1000.00	882.76
185	Isoprene	39	2.158	2.158	(0.448)	15701	50.0000	45.09
188	Isopropyl acetate	43	5.284	5.284	(0.951)	199883	50.0000	44.01
150	Allyl alcohol	57	3.342	3.342	(0.694)	72784	1000.00	946.69
194	Acetaldehyde	44	1.464	1.464	(0.304)	70626	200.000	176.18(M)
200	Dimethyl Disulfide	94	6.746	6.746	(0.824)	54335	50.0000	47.55
202	Isobutylene	41	1.749	1.749	(0.363)	34171	50.0000	42.92(M)
133	Ethyl Acrylate	55	5.947	5.947	(1.235)	173883	50.0000	46.09
163	Butyl methacrylate	41	9.651	9.651	(0.949)	83326	50.0000	47.02
159	Propylene oxide	43	2.202	2.202	(0.457)	9477	100.000	86.50
178	Ethylene oxide	44	1.603	1.603	(0.333)	149209	100.000	83.81(M)
203	2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	85102	50.0000	45.22
204	Tetrahydrothiophene	60	7.672	7.672	(0.937)	78419	50.0000	44.48(A)

205 sec-Butyl Ether	57	7.218	7.218 (0.882)	147080	50.0000	42.43(AM)
187 n-Amyl acetate	43	8.931	8.931 (1.091)	109893	50.0000	40.04

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
206 2-Chloropropene	41	1.929	1.929	(0.401)	111333	50.0000	45.22(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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Purge Volume: 5.0
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Instrument: VOA9,i
Operator: TS
Column diameter: 0.18

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InstruID : VOA9.i
LabSampID : VSTD050

Acrolein (107-02-8)

Reason Code: MBA

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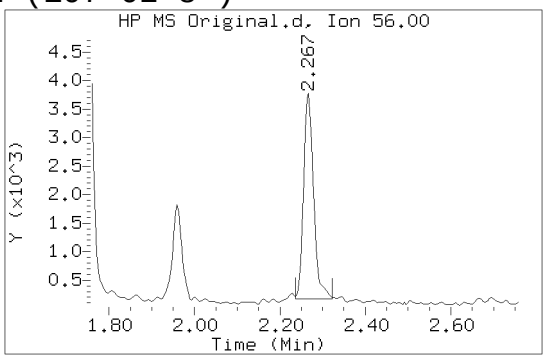

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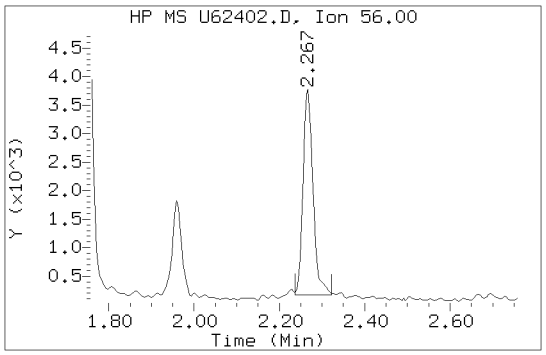

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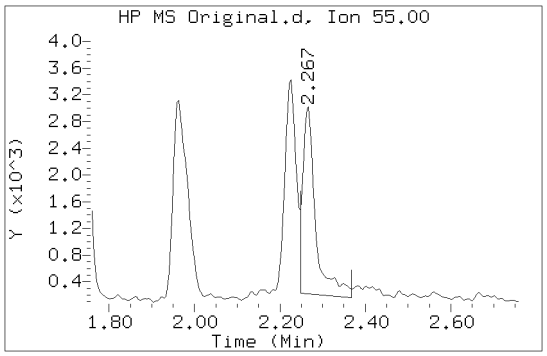

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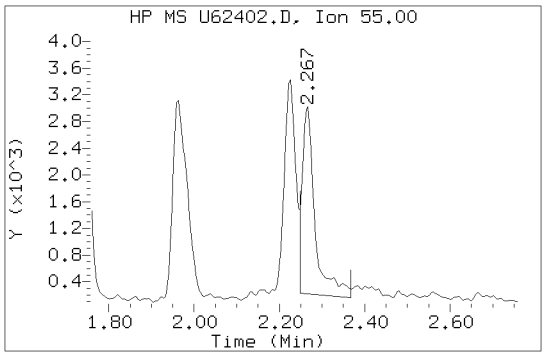

2-Chloroethylvinyl ether (110-75-8)

Reason Code: MBA

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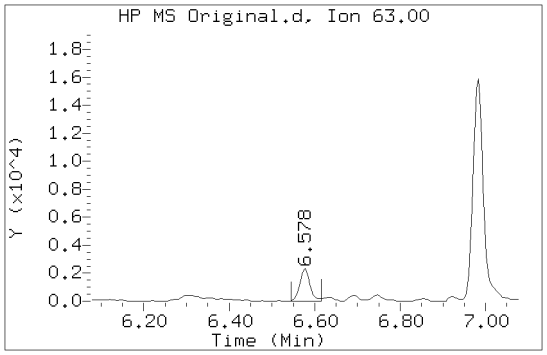

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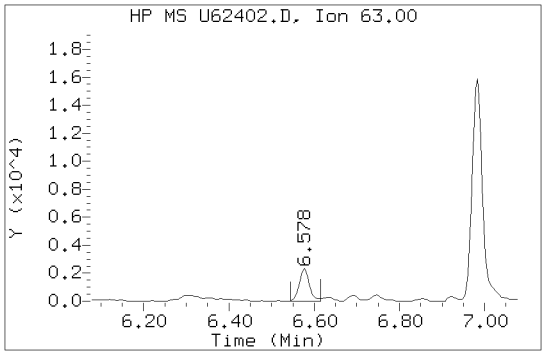

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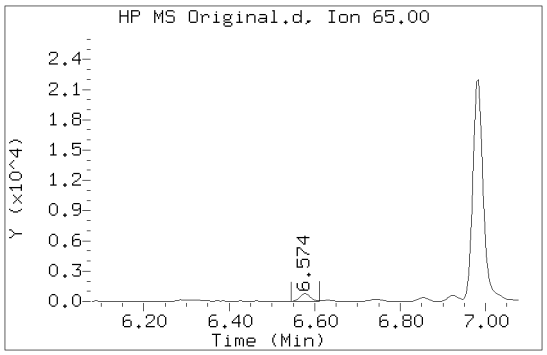

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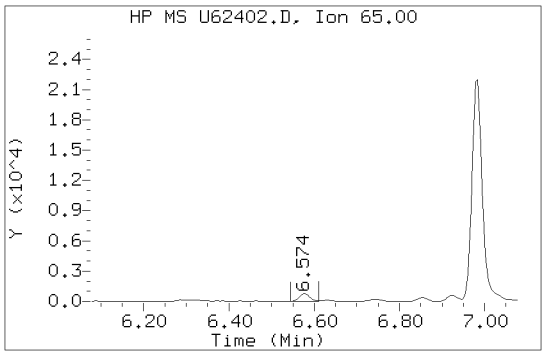

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Inj Date : 24-JUN-2024 11:05
InstruID : VOA9.i
LabSampID : VSTD050

2-Chloroethylvinyl ether (110-75-8)

Reason Code: MBA

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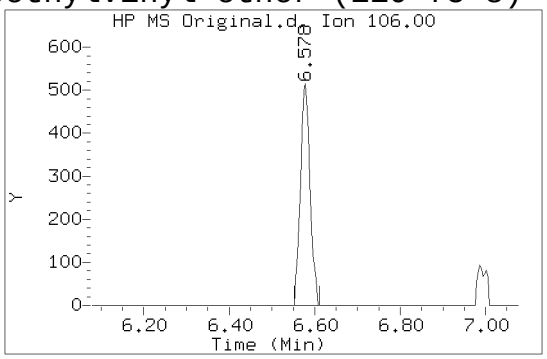

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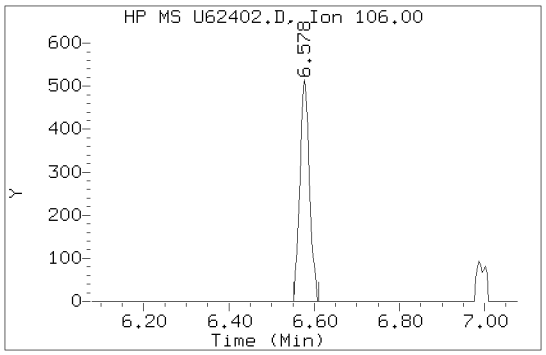

trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code: MBA

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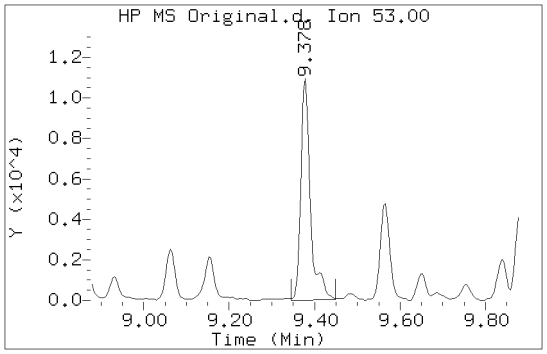

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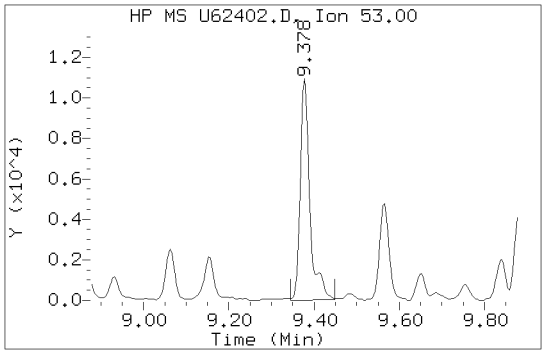

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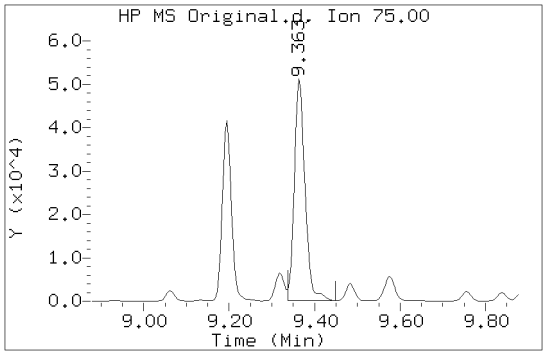

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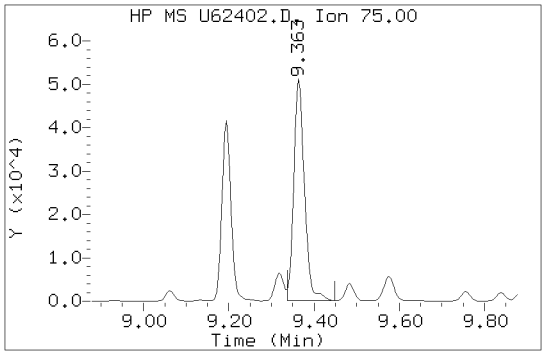

Ethyl Acetate (141-78-6)

Reason Code: MUP

BEFORE

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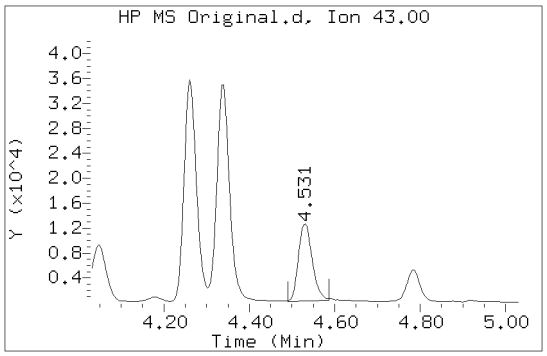

AFTER

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29-Jun-2024
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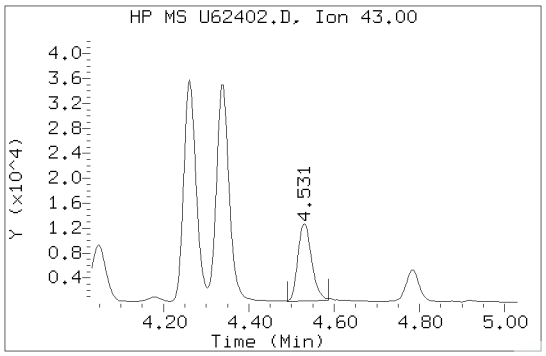

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Inj Date : 24-JUN-2024 11:05
InstruID : VOA9.i
LabSampID : VSTD050

Ethyl Acetate (141-78-6)

Reason Code: MUP

BEFORE

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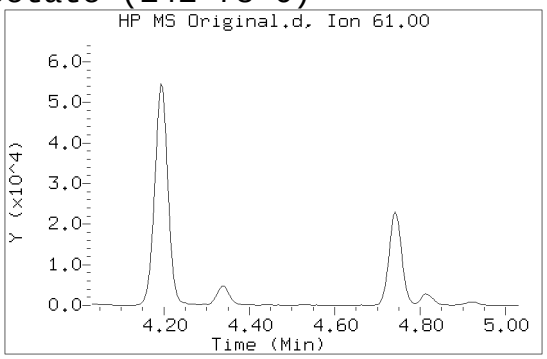

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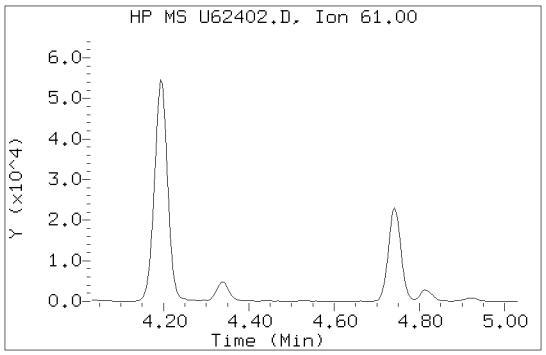

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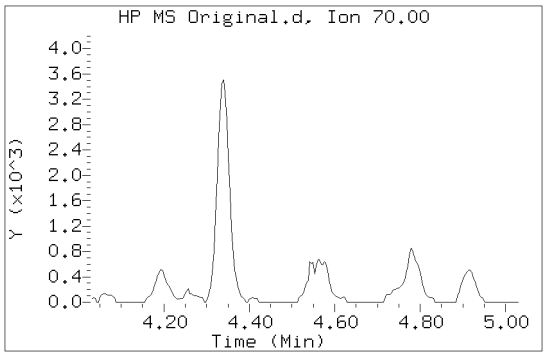

AFTER

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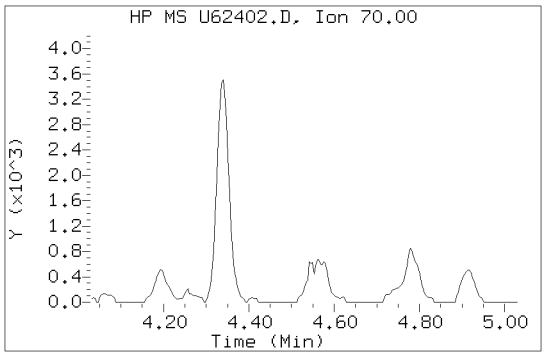

Ethylene oxide (75-21-8)

Reason Code: MUP

BEFORE

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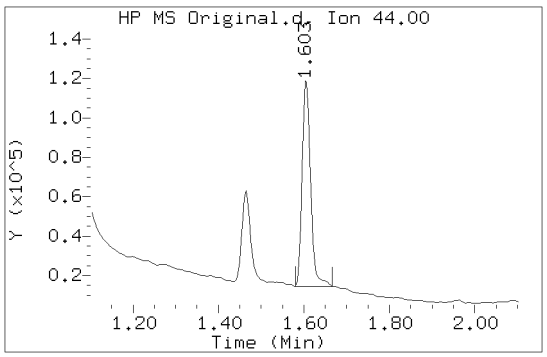

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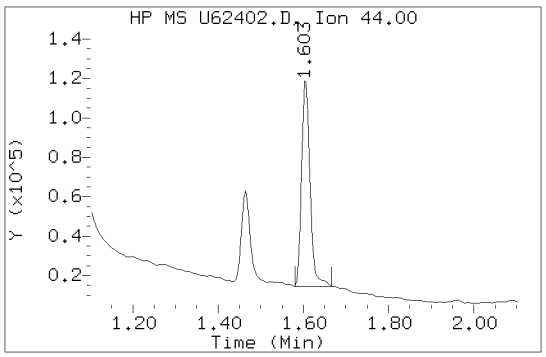

Acetaldehyde (75-07-0)

Reason Code: MPT

BEFORE

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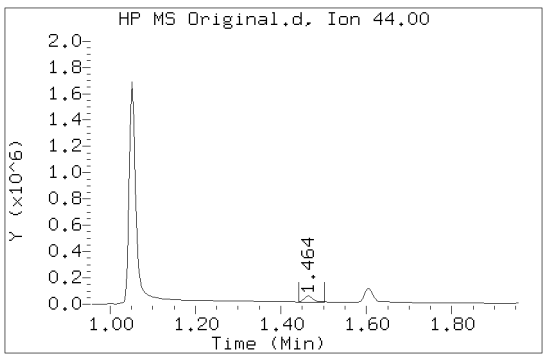

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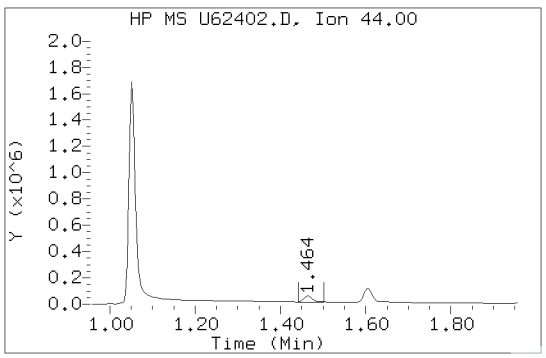

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Inj Date : 24-JUN-2024 11:05
InstruID : VOA9.i
LabSampID : VSTD050

Acetaldehyde (75-07-0)

Reason Code: MPT

BEFORE

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12:38
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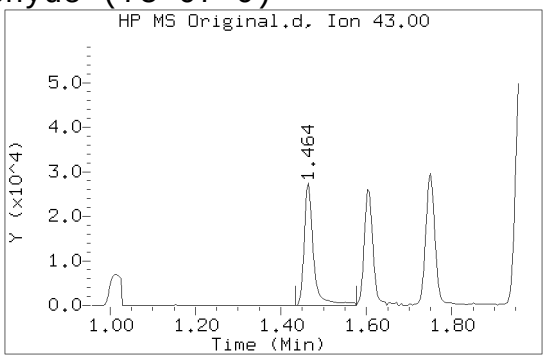
zaid



AFTER

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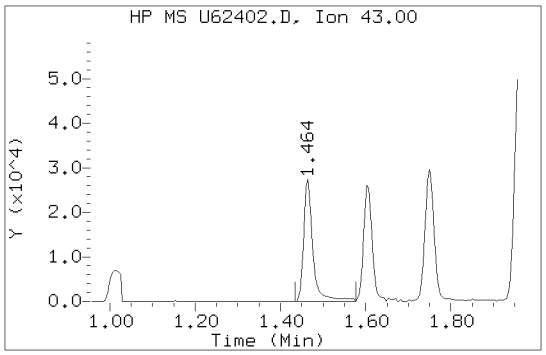

BEFORE

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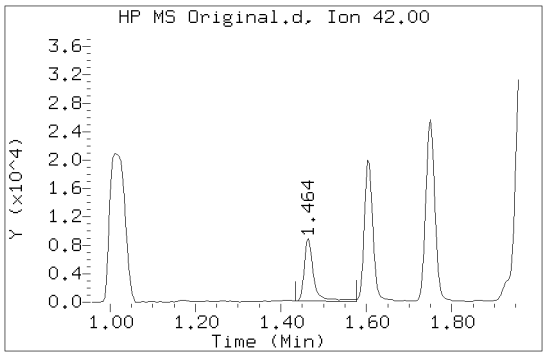

AFTER

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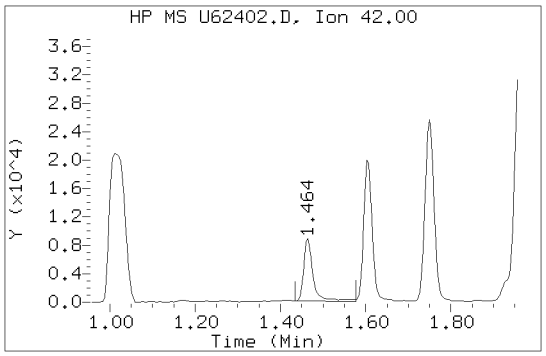

Isobutylene (115-11-7)

Reason Code: MUP

BEFORE

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12:38
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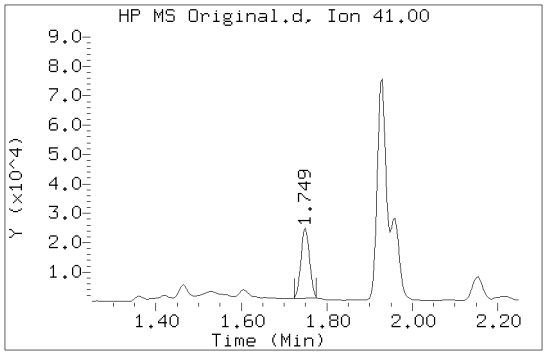
zaid



AFTER

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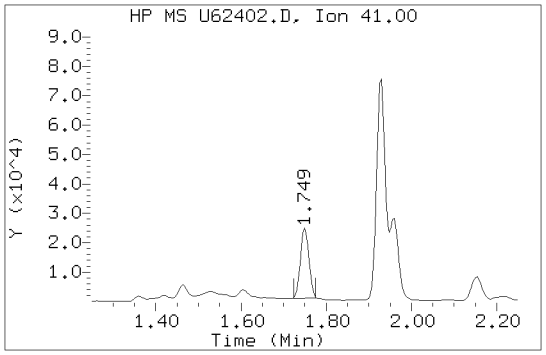

BEFORE

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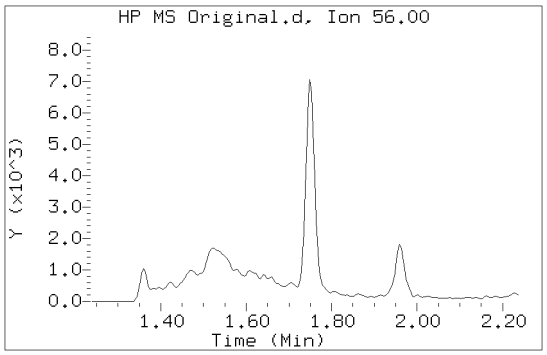

AFTER

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12:38
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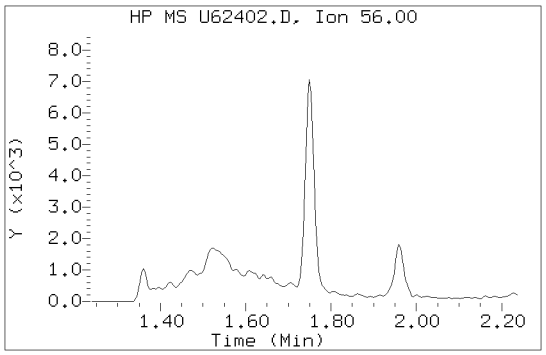

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Inj Date : 24-JUN-2024 11:05
InstruID : VOA9.i
LabSampID : VSTD050

Isobutylene (115-11-7)

Reason Code: MUP

BEFORE

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29-Jun-2024
12:38
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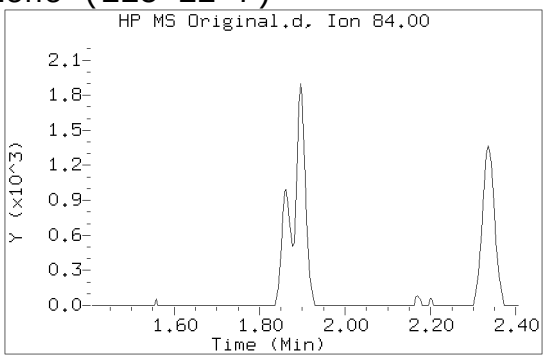
zaid



AFTER

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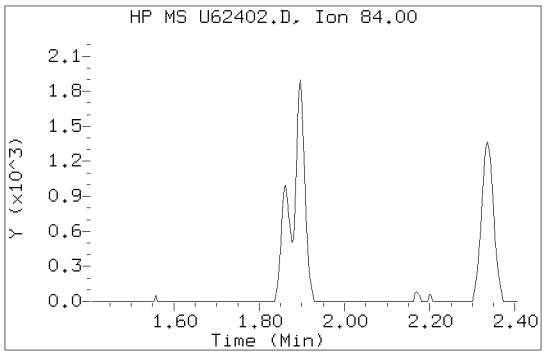

sec-Butyl Ether (6863-58-7)

Reason Code: MUP

BEFORE

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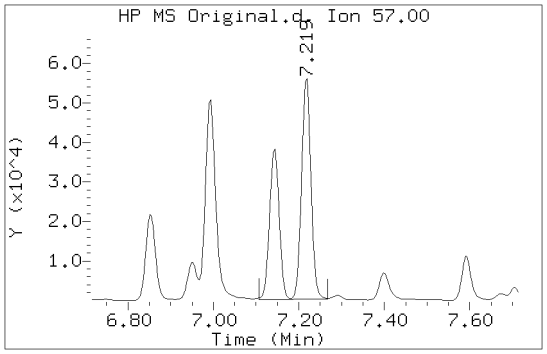
29-Jun-2024
12:38
s
zaid



AFTER

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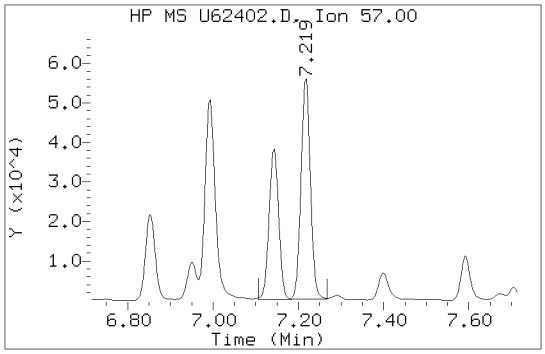

2-Chloropropene (557-98-2)

Reason Code: MIP

BEFORE

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29-Jun-2024
12:38
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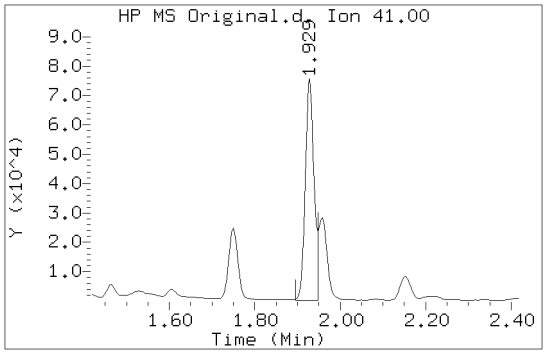

AFTER

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29-Jun-2024
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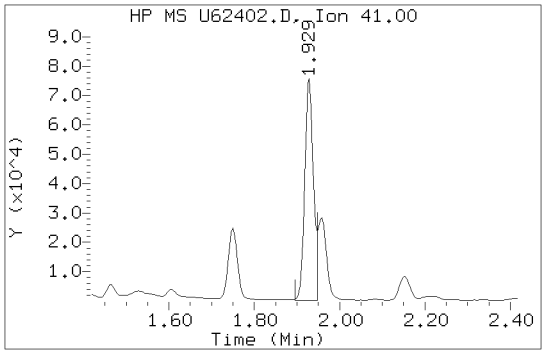


Data File: \\NAHSTWS005\Target\chem\voa9.i\U240624.b\U62403.D Page 1
Report Date: 29-Jun-2024 12:38

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240624.b\U62403.D
Lab Smp Id: VLCSW-240624 Client Smp ID: VLCSW-240624
Inj Date : 24-JUN-2024 12:32
Operator : TS Inst ID: VOA9.i
Smp Info : VLCSW-240624;VLCSW-240624;3;;LCS
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240624.b\8260C.m
Meth Date : 29-Jun-2024 12:38 VOA9.i Quant Type: ISTD
Cal Date : 20-JUN-2024 14:15 Cal File: U62010.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: NAHSTW7014

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)	242709	50.0000	
2 Dichlorodifluoromethane	85	1.160	1.168	(0.241)	29952	17.2798	17.27
3 Chloromethane	50	1.292	1.299	(0.269)	65192	15.6910	15.69
4 Propionitrile	54	4.324	4.332	(0.899)	42464	187.082	187.08(a)
5 Vinyl Chloride	62	1.370	1.382	(0.285)	37466	17.4944	17.49
6 Bromomethane	94	1.606	1.610	(0.334)	18954	22.7042	22.70
7 Chloroethane	64	1.693	1.700	(0.352)	23059	16.4771	16.47
8 Trichlorofluoromethane	101	1.888	1.895	(0.392)	43941	18.9023	18.90
9 Acrolein	56	2.255	2.266	(0.469)	2679	32.2202	32.22
10 Acetone	43	2.397	2.409	(0.498)	23628	33.2285	33.22
11 1,1-Dichloroethene	96	2.322	2.334	(0.483)	25152	17.7640	17.76
12 Isobutyl Alcohol	43	5.276	5.284	(1.097)	77954	325.349	325.34(a)
13 Acetonitrile	39	2.664	2.671	(0.554)	32048	166.003	166.00(a)
14 Allyl Chloride	41	2.664	2.671	(0.554)	74538	16.6103	16.61(a)
15 Iodomethane	142	2.457	2.469	(0.511)	23253	44.1278	44.12
16 Acrylonitrile	53	3.053	3.065	(0.635)	20256	33.8739	33.87
17 Methylene Chloride	84	2.787	2.795	(0.579)	32332	17.6426	17.64
18 Methyl tert-butyl ether	73	3.068	3.080	(0.638)	73878	17.9699	17.96
19 Carbon Disulfide	76	2.514	2.521	(0.522)	139265	35.6913	35.69
20 trans-1,2-Dichloroethene	96	3.050	3.061	(0.634)	27504	18.1744	18.17

21 Vinyl Acetate	43	4.328	4.339 (0.900)	30917	36.3191	36.31
22 1,1-Dichloroethane	63	3.507	3.515 (0.729)	51325	17.7698	17.76

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240624.b\U62403.D Page 2
Report Date: 29-Jun-2024 12:38

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	23 Chloroprene	53	3.601	3.612	(0.748)	41255	16.9704	16.97
	24 2-Butanone	43	4.253	4.261	(0.884)	30678	36.5580	36.55
	25 Methacrylonitrile	41	4.485	4.493	(0.932)	30735	29.2363	29.23(a)
	26 2,2-Dichloropropane	77	4.174	4.182	(0.868)	39163	17.8834	17.88
	27 cis-1,2-Dichloroethene	96	4.186	4.193	(0.870)	30914	17.3781	17.37
	28 Chloroform	83	4.564	4.572	(0.949)	52647	17.7891	17.78
	29 Bromochloromethane	128	4.459	4.470	(0.927)	16326	16.8021	16.80
$	30 Dibromofluoromethane	113	4.740	4.748	(0.985)	90679	56.2459	56.24
	31 1,1,1-Trichloroethane	97	4.737	4.740	(0.984)	42404	18.8180	18.81
	32 1,1-Dichloropropene	75	4.917	4.920	(0.886)	38328	17.9678	17.96
	33 1,2-Dichloroethane	62	5.168	5.175	(0.931)	42739	18.1317	18.13
	34 Carbon Tetrachloride	117	4.905	4.913	(0.884)	32718	18.2997	18.29
$	35 1,2-Dichloroethane-d4	65	5.089	5.096	(1.058)	107697	52.3750	52.37
*	36 1,4-Difluorobenzene	114	5.550	5.554	(1.000)	349686	50.0000	
	37 Benzene	78	5.134	5.138	(0.925)	120941	16.8049	16.80
	38 Trichloroethene	130	5.782	5.786	(1.042)	31364	17.9583	17.95
	39 Bromodichloromethane	83	6.274	6.277	(1.130)	35875	17.6373	17.63
	40 Methyl Methacrylate	41	5.816	5.820	(1.209)	12801	20.1548	20.15(a)
	42 1,2-Dichloropropane	63	6.004	6.007	(1.082)	32370	16.9813	16.98
	43 2-Nitropropane	43	6.506	6.506	(1.352)	6851	17.8531	17.85
	44 Dibromomethane	93	6.116	6.120	(1.102)	19465	17.4942	17.49
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	54826	32.0790	32.07
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	40709	17.1299	17.12
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	310118	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	336762	55.9467	55.94(M)
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	29937	13.4803	13.48(a)
	50 Toluene	91	6.982	6.982	(0.853)	127135	18.0052	18.00
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	32335	16.5594	16.55
	52 2-Hexanone	43	7.214	7.214	(0.881)	41512	35.5980	35.59
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	23676	17.3406	17.34
	54 1,3-Dichloropropane	76	7.496	7.499	(0.916)	49314	17.1855	17.18
	55 Dibromochloromethane	129	7.691	7.691	(0.940)	27531	19.3266	19.32
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	25242	19.1010	19.10
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	26514	17.5923	17.59
	58 1-Chlorohexane	55	8.197	8.197	(1.477)	19584	14.0242	14.02
	59 Chlorobenzene	112	8.212	8.212	(1.003)	80722	18.3163	18.31
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	26346	17.3677	17.36
	61 Ethylbenzene	106	8.309	8.305	(1.015)	38547	17.6400	17.63
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	97893	37.5221	37.52
	63 o-Xylene	106	8.748	8.748	(1.069)	47345	18.4153	18.41
	64 Styrene	104	8.763	8.763	(1.071)	77548	18.0413	18.04
	66 Bromoform	173	8.920	8.920	(1.090)	14513	16.0390	16.03
	67 Isopropylbenzene	105	9.063	9.063	(1.107)	120292	18.8588	18.85
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	38189	18.1283	18.12
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	127678	53.9852	53.98
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	168863	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	32988	16.0775	16.07
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	5176	11.9442	11.94(a)
	73 n-Propylbenzene	91	9.415	9.415	(0.926)	136478	18.6904	18.69
	74 Bromobenzene	156	9.321	9.317	(0.916)	34952	17.6174	17.61
	75 1,3,5-Trimethylbenzene	105	9.565	9.565	(0.940)	85858	16.5982	16.59
	76 2-Chlorotoluene	91	9.486	9.482	(0.933)	85690	17.3406	17.34

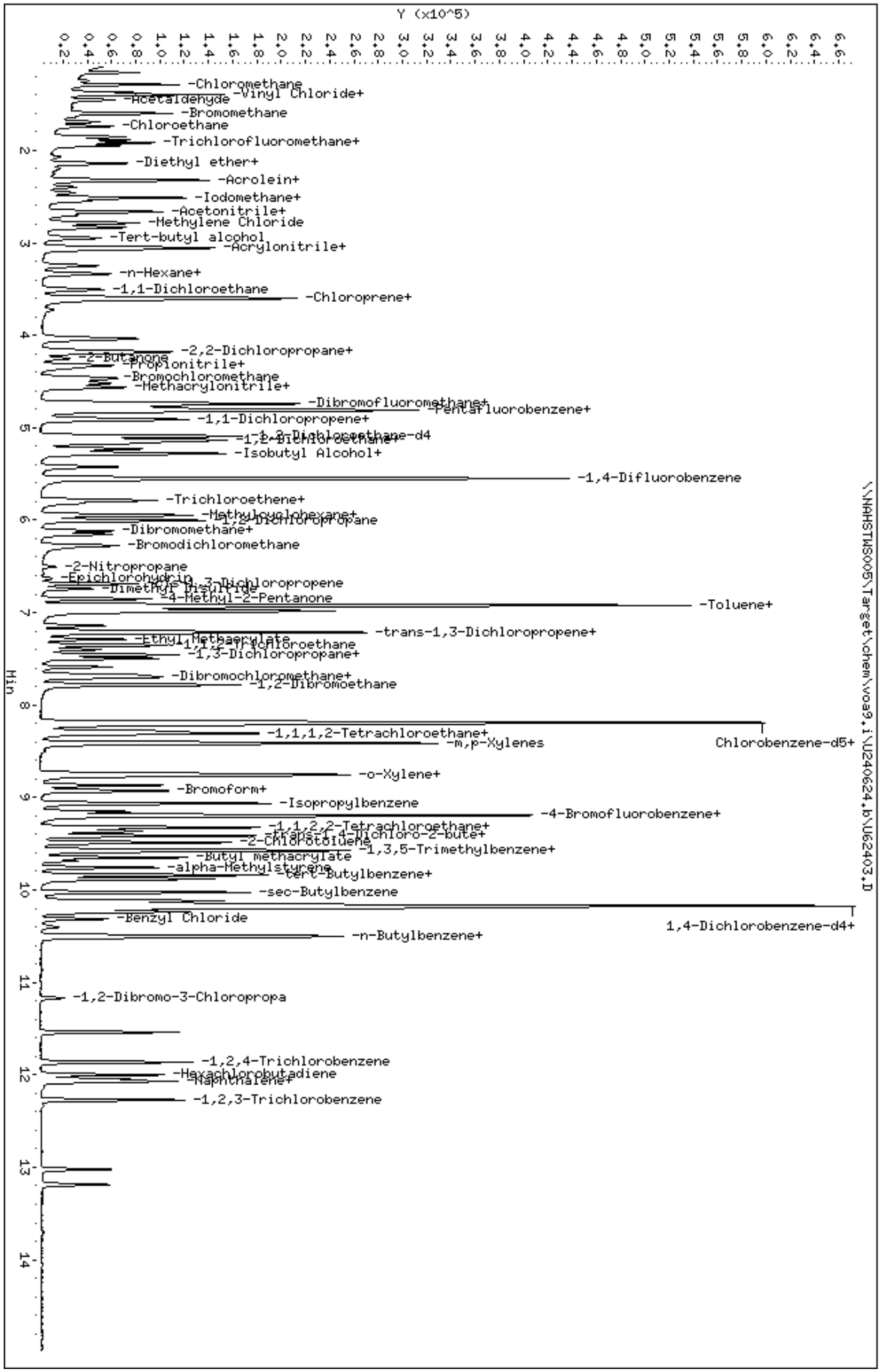
77 4-Chlorotoluene	91	9.580	9.576 (0.942)	98239	17.5168	17.51
78 tert-Butylbenzene	119	9.839	9.839 (0.967)	82763	18.5966	18.59

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240624.b\U62403.D Page 3
Report Date: 29-Jun-2024 12:38

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.884	9.880	(0.972)	86575	16.1115	16.11(M)
81	sec-Butylbenzene	105	10.026	10.022	(0.986)	111651	18.8377	18.83
82	p-Isopropyltoluene	119	10.150	10.146	(0.998)	91853	17.2011	17.20
83	1,3-Dichlorobenzene	146	10.120	10.116	(0.995)	61212	16.7680	16.76
84	1,4-Dichlorobenzene	146	10.195	10.191	(1.002)	65144	18.2412	18.24
86	Benzyl Chloride	91	10.315	10.311	(1.260)	37323	9.15632	9.15
87	n-Butylbenzene	91	10.495	10.495	(1.032)	83867	17.4356	17.43
88	1,2-Dichlorobenzene	146	10.510	10.506	(1.033)	61056	16.7983	16.79
89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	3945	15.7702	15.77
90	1,2,4-Trichlorobenzene	180	11.863	11.859	(1.166)	38976	17.7246	17.72
91	Hexachlorobutadiene	225	12.002	12.002	(1.180)	19400	19.8967	19.89
92	Naphthalene	128	12.073	12.069	(1.187)	76939	16.3690	16.36
93	1,2,3-Trichlorobenzene	180	12.275	12.271	(1.207)	36490	18.1230	18.12
146	Methyl acetate	43	2.701	2.712	(0.561)	24143	17.6362	17.63
138	Freon TF	101	2.326	2.337	(0.484)	24188	18.2329	18.23
141	Cyclohexane	56	4.778	4.782	(0.993)	42329	17.4716	17.47
142	Tetrahydrofuran	42	4.530	4.538	(0.942)	11581	40.2896	40.28
147	Methylcyclohexane	55	5.944	5.947	(1.071)	63450	17.0878	17.08
135	1,4-Dioxane	88	6.161	6.165	(1.280)	7010	365.546	365.54
132	n-Butanol	56	5.820	5.820	(1.210)	17760	410.415	410.41(a)
136	n-Hexane	57	3.338	3.342	(0.694)	28024	18.0074	18.00
139	Diethyl ether	59	2.135	2.146	(0.444)	20846	17.0766	17.07
148	Tert-butyl alcohol	59	2.948	2.963	(0.613)	51599	363.530	363.53
149	Isopropyl alcohol	45	2.547	2.562	(0.529)	41483	378.824	378.82
156	Diisopropyl ether	45	3.608	3.619	(0.750)	90440	15.4491	15.44
162	Butyl acrylate	55	8.733	8.733	(1.067)	42656	14.9426	14.94
164	Dicyclopentadiene	66	10.202	10.202	(1.003)	118123	16.1564	16.15
166	1,2,3-Trimethylbenzene	105	10.240	10.236	(1.007)	67092	13.8917	13.89
167	Ethanol	45	2.071	2.086	(0.431)	8341	392.017	392.01
172	tert-Butyl formate	59	5.231	5.239	(1.087)	51280	44.9499	44.94
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	149307	309.603	309.60
140	1,3-Butadiene	54	1.397	1.408	(0.290)	36706	17.6123	17.61
182	Epichlorohydrin	57	6.626	6.630	(1.194)	3894	70.5179	70.51
M 94	1,2-Dichloroethylene (total)	96				58418	35.4832	35.48
M 95	Xylenes (total)	106				145238	54.6669	54.66
145	alpha-Methylstyrene	118	9.756	9.756	(0.959)	28190	15.3888	15.38
131	Methyl Acrylate	55	4.358	4.365	(0.906)	32937	16.3749	16.37
189	n-Butyl acetate	43	7.706	7.706	(0.941)	38607	15.6142	15.61
134	Cyclohexanone	55	9.156	9.153	(0.900)	29786	341.458	341.45(a)
185	Isoprene	39	2.146	2.158	(0.446)	6240	17.7074	17.70
188	Isopropyl acetate	43	5.276	5.284	(0.951)	77954	16.6712	16.67
150	Allyl alcohol	57	3.338	3.342	(0.694)	28024	360.149	360.14
194	Acetaldehyde	44	1.453	1.464	(0.302)	72685	179.151	179.15
200	Dimethyl Disulfide	94	6.742	6.746	(0.824)	16782	16.9480	16.94
133	Ethyl Acrylate	55	5.944	5.947	(1.235)	63450	16.6192	16.61
163	Butyl methacrylate	41	9.651	9.651	(0.949)	30727	17.5616	17.56
159	Propylene oxide	43	2.191	2.202	(0.455)	3976	35.8581	35.85
203	2-Ethylhexyl Acrylate	55	12.047	12.043	(1.184)	25005	15.1120	15.11
204	Tetrahydrothiophene	60	7.672	7.672	(0.937)	30209	17.1415	17.14(A)
205	sec-Butyl Ether	57	7.214	7.218	(0.881)	29521	8.51974	8.51(A)
187	n-Amyl acetate	43	8.931	8.931	(1.091)	44865	16.3531	16.35
206	2-Chloropropene	41	1.918	1.929	(0.399)	54189	21.7487	21.74(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.


Y (x10^5)
Min
-Chloromethane
-Vinyl Chloride+
-Acetaldehyde
-Bromomethane
-Chloroethane
-Trichlorofluoromethane+
-Diethyl ether+
-Acrolein+
-Iodomethane+
-Acetonitrile+
-Methylene Chloride
-Tert-butyl alcohol
-Acrylonitrile+
-n-Hexane+
-1,1-Dichloroethane
-Chloroprene+
-2,2-Dichloropropane+
-2-Butanone
-Propionitrile+
-Bromochloromethane
-Methacrylonitrile+
-Dibromofluoromethane+
-Pentafluorobenzene+
-1,1-Dichloropropene+
-1,2-Dichloroethane-d4
-1,2-Dichloroethane+
-Isobutyl Alcohol+
-1,4-Difluorobenzene
-Trichloroethene+
-Methylcyclohexane+
-1,2-Dichloropropane
-Dibromomethane+
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-2-Nitropropane
-Epichlorohydrin
-cis-1,3-Dichloropropene
-Dimethyl Disulfide
-4-Methyl-2-Pentanone
-Toluene+
-trans-1,3-Dichloropropene+
-Ethyl Methacrylate
-1,1,2-Trichloroethane
-1,3-Dichloropropane+
-Dibromochloromethane+
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-m,p-Xylenes
Chlorobenzene-d5+
-o-Xylene+
-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
-tert-Butylbenzene+
-sec-Butylbenzene
-Benzyl Chloride
1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-1,2-Dibromo-3-Chloropropa
-1,2,4-Trichlorobenzene
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-Naphthalene+
-1,2,3-Trichlorobenzene
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Instrument: VOA9,i
Operator: TS
Column diameter: 0.18
Page 1

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Inj Date : 24-JUN-2024 12:32
InstruID : VOA9.i
LabSampID : VLCSW-240624

1,2,4-Trimethylbenzene (95-63-6)

Reason Code: MBA

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29-Jun-2024
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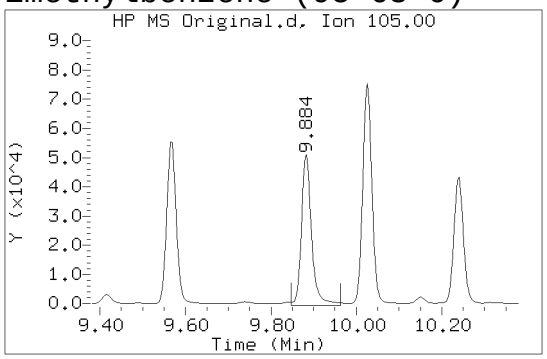

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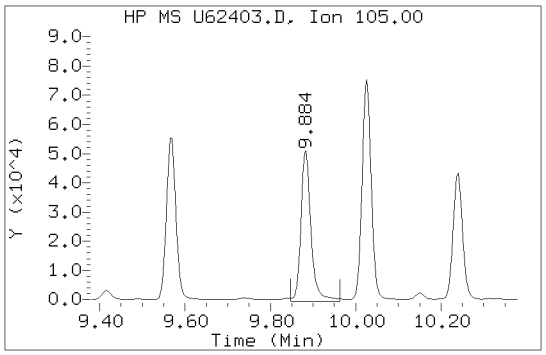

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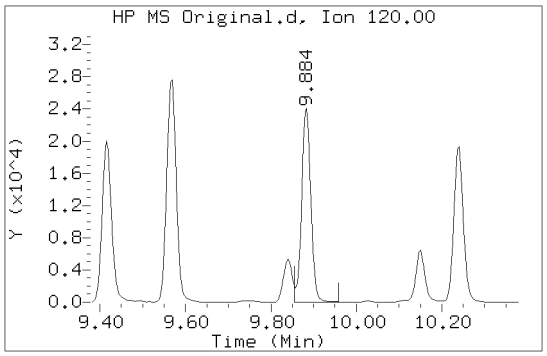

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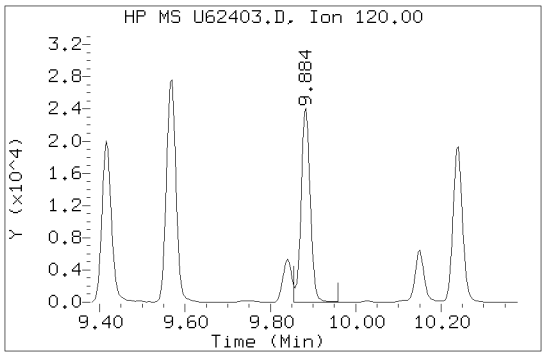

Toluene-d8 (2037-26-5)

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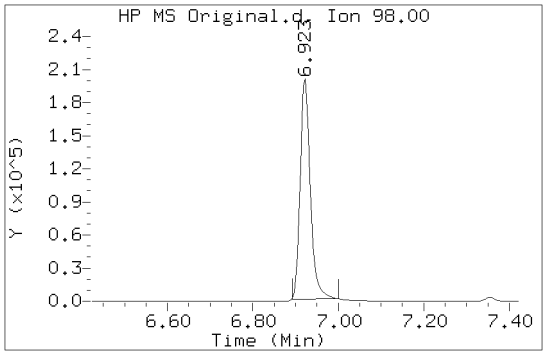

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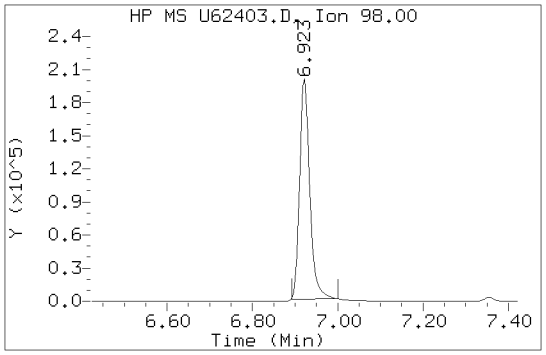

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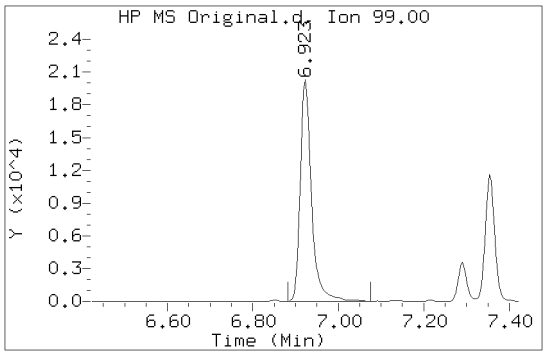

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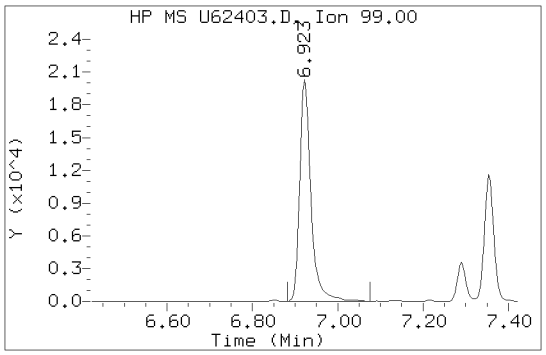

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InstruID : VOA9.i
LabSampID : VLCSW-240624

Toluene-d8 (2037-26-5)

Reason Code: MPT

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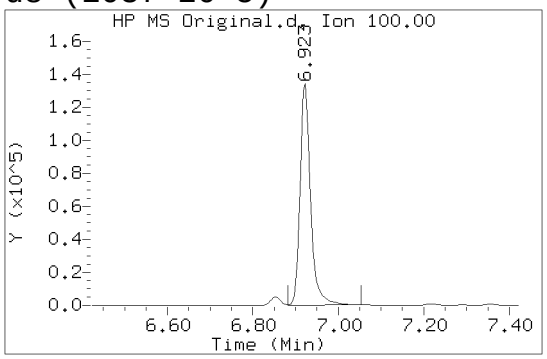

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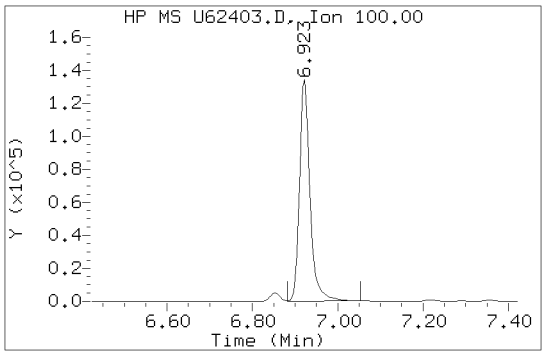

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Report Date: 29-Jun-2024 12:41

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240624.b\U62404.D
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Inj Date : 24-JUN-2024 12:54
Operator : TS Inst ID: VOA9.i
Smp Info : VLCSDW-240624;VLCSDW-240624;3;;LCSD
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa9.i\U240624.b\8260C.m
Meth Date : 29-Jun-2024 12:38 VOA9.i Quant Type: ISTD
Cal Date : 20-JUN-2024 14:15 Cal File: U62010.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: NAHSTW7014

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)	234234	50.0000	
2 Dichlorodifluoromethane	85	1.164	1.168	(0.242)	25414	15.1922	15.19
3 Chloromethane	50	1.295	1.299	(0.269)	59406	14.7154	14.71
4 Propionitrile	54	4.331	4.332	(0.900)	37997	173.042	173.04(a)
5 Vinyl Chloride	62	1.374	1.382	(0.286)	31620	15.3148	15.31
6 Bromomethane	94	1.606	1.610	(0.334)	16211	19.8822	19.88
7 Chloroethane	64	1.692	1.700	(0.352)	21070	15.5626	15.56
8 Trichlorofluoromethane	101	1.891	1.895	(0.393)	38483	17.1534	17.15
9 Acrolein	56	2.258	2.266	(0.469)	2354	28.7460	28.74
10 Acetone	43	2.401	2.409	(0.499)	20843	29.7013	29.70(M)
11 1,1-Dichloroethene	96	2.326	2.334	(0.483)	21482	15.7210	15.72
12 Isobutyl Alcohol	43	5.280	5.284	(1.097)	75631	327.075	327.07(a)
13 Acetonitrile	39	2.667	2.671	(0.554)	29393	157.241	157.24(a)
14 Allyl Chloride	41	2.667	2.671	(0.554)	68643	15.8251	15.82(a)
15 Iodomethane	142	2.461	2.469	(0.512)	22687	44.5909	44.59
16 Acrylonitrile	53	3.061	3.065	(0.636)	19022	32.9474	32.94
17 Methylene Chloride	84	2.791	2.795	(0.580)	29962	16.8681	16.86
18 Methyl tert-butyl ether	73	3.072	3.080	(0.639)	68790	17.3525	17.35
19 Carbon Disulfide	76	2.513	2.521	(0.522)	120741	32.0635	32.06
20 trans-1,2-Dichloroethene	96	3.053	3.061	(0.635)	24115	16.4546	16.45

21 Vinyl Acetate	43	4.335	4.339 (0.901)	28634	34.8413	34.84
22 1,1-Dichloroethane	63	3.507	3.515 (0.729)	47446	16.9876	16.98

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240624.b\U62404.D Page 2
Report Date: 29-Jun-2024 12:41

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	23 Chloroprene	53	3.604	3.612	(0.749)	36557	15.5613	15.56
	24 2-Butanone	43	4.257	4.261	(0.885)	27920	34.4835	34.48
	25 Methacrylonitrile	41	4.489	4.493	(0.933)	27995	27.6358	27.63(a)
	26 2,2-Dichloropropane	77	4.178	4.182	(0.868)	35368	16.7709	16.77
	27 cis-1,2-Dichloroethene	96	4.189	4.193	(0.871)	29847	17.3856	17.38
	28 Chloroform	83	4.568	4.572	(0.949)	50140	17.5434	17.54
	29 Bromochloromethane	128	4.463	4.470	(0.928)	15519	16.5495	16.54
$	30 Dibromofluoromethane	113	4.744	4.748	(0.986)	88776	57.0578	57.05
	31 1,1,1-Trichloroethane	97	4.736	4.740	(0.984)	38548	17.7257	17.72
	32 1,1-Dichloropropene	75	4.916	4.920	(0.886)	34531	16.7229	16.72
	33 1,2-Dichloroethane	62	5.171	5.175	(0.932)	39636	17.3230	17.32
	34 Carbon Tetrachloride	117	4.909	4.913	(0.885)	29975	17.3197	17.31
$	35 1,2-Dichloroethane-d4	65	5.092	5.096	(1.058)	104789	52.8046	52.80
*	36 1,4-Difluorobenzene	114	5.550	5.554	(1.000)	338497	50.0000	
	37 Benzene	78	5.134	5.138	(0.925)	111435	15.9959	15.99
	38 Trichloroethene	130	5.786	5.786	(1.043)	28274	16.7241	16.72
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	33328	16.9267	16.92
	40 Methyl Methacrylate	41	5.820	5.820	(1.210)	11283	18.4075	18.40(a)
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	30659	16.6154	16.61
	43 2-Nitropropane	43	6.506	6.506	(1.352)	5214	14.0788	14.07
	44 Dibromomethane	93	6.116	6.120	(1.102)	18445	17.1254	17.12
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	53740	32.1561	32.15
	46 cis-1,3-Dichloropropene	75	6.689	6.690	(1.205)	38097	16.5607	16.56
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	303246	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	327375	55.6198	55.61(M)
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	33924	15.7806	15.78(a)
	50 Toluene	91	6.982	6.982	(0.853)	117451	17.0107	17.01
	51 trans-1,3-Dichloropropene	75	7.195	7.196	(1.297)	31569	16.6825	16.68
	52 2-Hexanone	43	7.214	7.214	(0.881)	38863	34.0443	34.04
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	23375	17.5081	17.50
	54 1,3-Dichloropropane	76	7.495	7.499	(0.916)	47785	17.0301	17.03
	55 Dibromochloromethane	129	7.690	7.691	(0.940)	25146	18.0524	18.05
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	23338	18.0604	18.06
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	25882	17.5621	17.56
	58 1-Chlorohexane	55	8.196	8.197	(1.477)	21044	15.6489	15.64
	59 Chlorobenzene	112	8.208	8.212	(1.003)	76772	17.7933	17.79
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	25737	17.3507	17.35
	61 Ethylbenzene	106	8.309	8.305	(1.015)	35944	16.8215	16.82
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	90945	35.6489	35.64
	63 o-Xylene	106	8.747	8.748	(1.069)	45209	17.9829	17.98
	64 Styrene	104	8.762	8.763	(1.071)	76428	18.1836	18.18
	66 Bromoform	173	8.920	8.920	(1.090)	15256	17.1575	17.15
	67 Isopropylbenzene	105	9.062	9.063	(1.107)	110494	17.7153	17.71
	68 1,1,2,2-Tetrachloroethane	83	9.328	9.329	(0.917)	37898	17.9793	17.97
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	129479	55.9874	55.98
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	168940	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	35171	17.0796	17.07
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	6768	15.9719	15.97(a)
	73 n-Propylbenzene	91	9.415	9.415	(0.926)	127534	17.4576	17.45
	74 Bromobenzene	156	9.317	9.317	(0.916)	33710	16.9837	16.98
	75 1,3,5-Trimethylbenzene	105	9.565	9.565	(0.940)	82356	15.9836	15.98
	76 2-Chlorotoluene	91	9.482	9.482	(0.932)	81030	16.3901	16.39

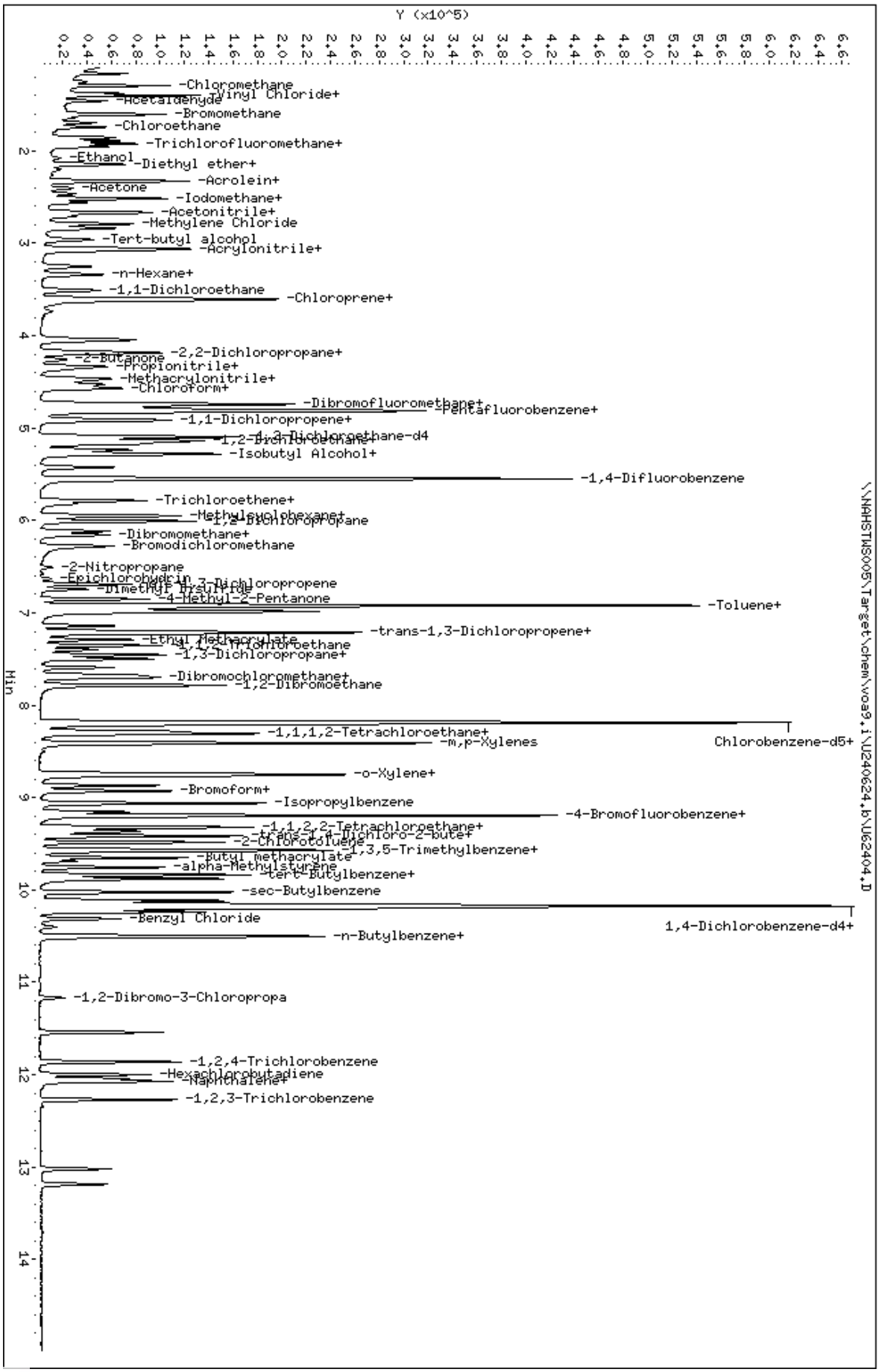
77 4-Chlorotoluene	91	9.576	9.576 (0.941)	93084	16.5901	16.59
78 tert-Butylbenzene	119	9.838	9.839 (0.967)	77453	17.3955	17.39

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240624.b\U62404.D Page 3
Report Date: 29-Jun-2024 12:41

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	83191	15.4747	15.47
81	sec-Butylbenzene	105	10.022	10.022	(0.985)	101384	17.0976	17.09
82	p-Isopropyltoluene	119	10.149	10.146	(0.998)	85485	16.1162	16.11
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	58983	16.1500	16.15(M)
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	63179	17.6636	17.66
86	Benzyl Chloride	91	10.311	10.311	(1.260)	44545	12.3735	12.37
87	n-Butylbenzene	91	10.494	10.495	(1.032)	77076	16.1273	16.12
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	59020	16.2307	16.23
89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	3988	15.9301	15.93
90	1,2,4-Trichlorobenzene	180	11.863	11.859	(1.166)	36262	16.4829	16.48
91	Hexachlorobutadiene	225	12.001	12.002	(1.180)	16896	17.3207	17.32
92	Naphthalene	128	12.069	12.069	(1.186)	74544	15.9141	15.91
93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	34133	16.9446	16.94
146	Methyl acetate	43	2.708	2.712	(0.563)	22861	17.2551	17.25
138	Freon TF	101	2.330	2.337	(0.484)	21161	16.4789	16.47
141	Cyclohexane	56	4.781	4.782	(0.994)	37305	15.8712	15.87
142	Tetrahydrofuran	42	4.538	4.538	(0.943)	9557	34.4512	34.45
147	Methylcyclohexane	55	5.943	5.947	(1.071)	58672	16.3234	16.32
135	1,4-Dioxane	88	6.165	6.165	(1.281)	6434	345.898	345.89
132	n-Butanol	56	5.820	5.820	(1.210)	15030	360.418	360.41(a)
136	n-Hexane	57	3.338	3.342	(0.694)	25190	16.7720	16.77
139	Diethyl ether	59	2.138	2.146	(0.445)	19533	16.5512	16.55
148	Tert-butyl alcohol	59	2.959	2.963	(0.615)	46358	337.554	337.55
149	Isopropyl alcohol	45	2.558	2.562	(0.532)	35753	336.671	336.67
156	Diisopropyl ether	45	3.615	3.619	(0.751)	85832	15.1924	15.19
162	Butyl acrylate	55	8.732	8.733	(1.067)	44142	15.8136	15.81
164	Dicyclopentadiene	66	10.202	10.202	(1.003)	113455	15.5109	15.51
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	72025	14.9063	14.90
167	Ethanol	45	2.079	2.086	(0.432)	7390	357.959	357.95
172	tert-Butyl formate	59	5.239	5.239	(1.089)	46626	42.4035	42.40
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	141972	304.125	304.12
140	1,3-Butadiene	54	1.400	1.408	(0.291)	30729	15.2779	15.27
182	Epichlorohydrin	57	6.629	6.630	(1.195)	3624	68.0436	68.04
M 94	1,2-Dichloroethylene (total)	96				53962	33.9206	33.92
M 95	Xylenes (total)	106				136154	52.9417	52.94
145	alpha-Methylstyrene	118	9.756	9.756	(0.959)	29343	15.9740	15.97
131	Methyl Acrylate	55	4.365	4.365	(0.907)	30253	15.5847	15.58
189	n-Butyl acetate	43	7.705	7.706	(0.941)	40331	16.6811	16.68
134	Cyclohexanone	55	9.152	9.153	(0.900)	29537	338.396	338.39(a)
185	Isoprene	39	2.150	2.158	(0.447)	5246	15.4253	15.42
188	Isopropyl acetate	43	5.280	5.284	(0.951)	75700	16.7243	16.72
150	Allyl alcohol	57	3.338	3.342	(0.694)	25190	335.441	335.44
194	Acetaldehyde	44	1.456	1.464	(0.303)	58929	150.501	150.50
200	Dimethyl Disulfide	94	6.742	6.746	(0.824)	15841	16.4248	16.42
133	Ethyl Acrylate	55	5.943	5.947	(1.235)	58672	15.9238	15.92
163	Butyl methacrylate	41	9.651	9.651	(0.949)	30742	17.5622	17.56
159	Propylene oxide	43	2.198	2.202	(0.457)	3103	28.9974	28.99
203	2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	24774	14.9797	14.97
204	Tetrahydrothiophene	60	7.672	7.672	(0.937)	29100	16.8864	16.88(A)
205	sec-Butyl Ether	57	7.214	7.218	(0.881)	31455	9.28361	9.28(A)
187	n-Amyl acetate	43	8.931	8.931	(1.091)	45602	16.9984	16.99
206	2-Chloropropene	41	1.921	1.929	(0.399)	46476	19.3280	19.32(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.



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Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: TS
Column diameter: 0.18

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Inj Date : 24-JUN-2024 12:54
InstruID : VOA9.i
LabSampID : VLCSDW-240624

Acetone (67-64-1)

Reason Code: MBA

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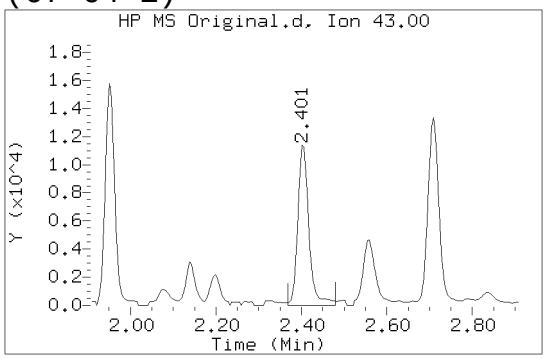

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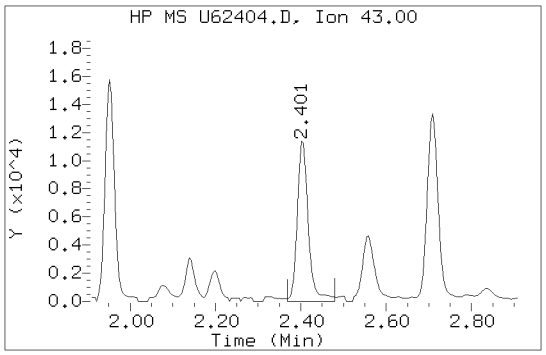

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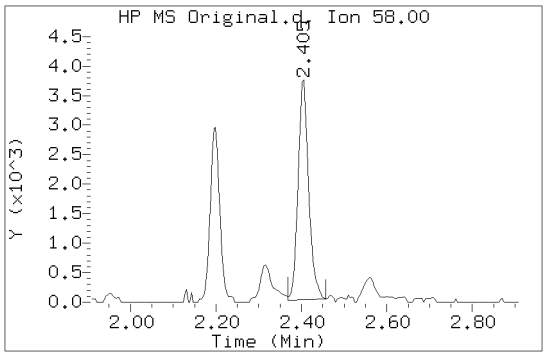

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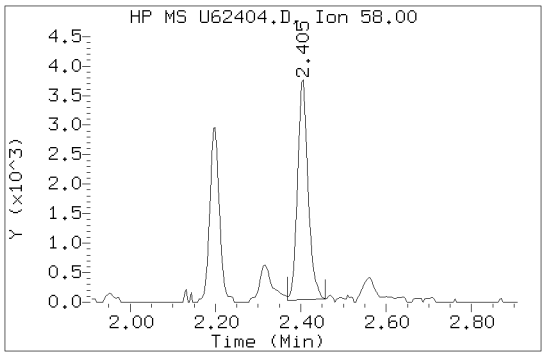

1,3-Dichlorobenzene (541-73-1)

Reason Code: MBA

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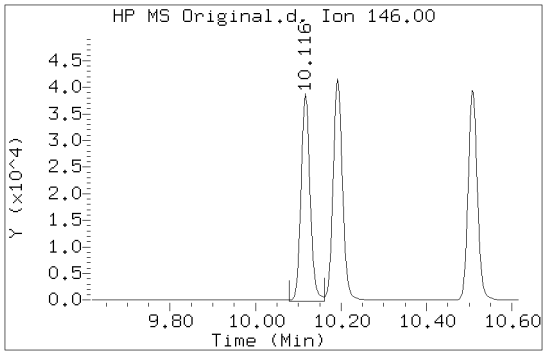

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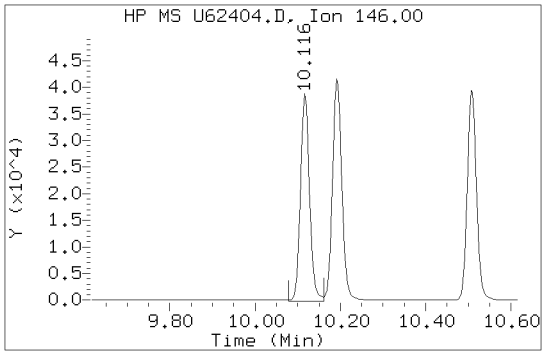

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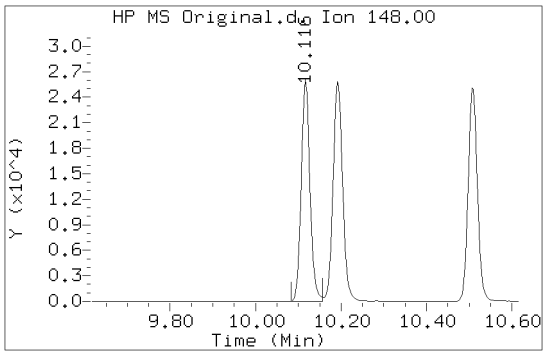

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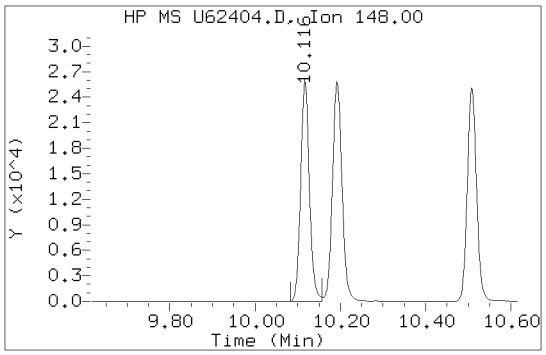

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InstruID : VOA9.i
LabSampID : VLCSDW-240624

1,3-Dichlorobenzene (541-73-1)

Reason Code: MBA

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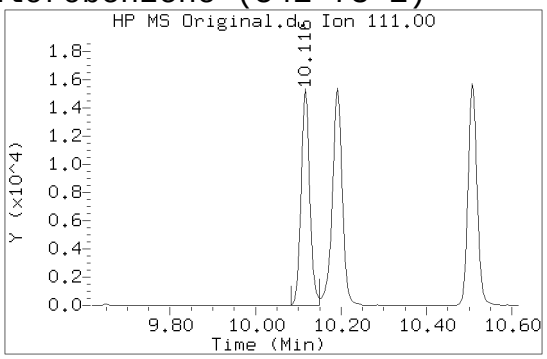

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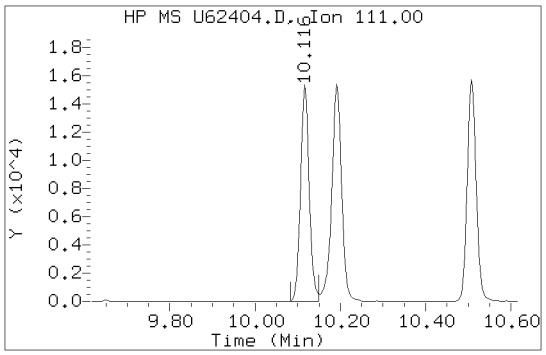

Toluene-d8 (2037-26-5)

Reason Code: MPT

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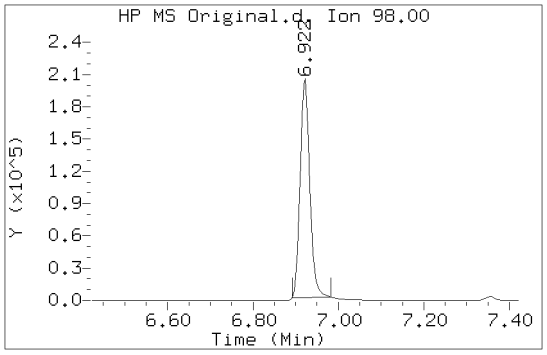

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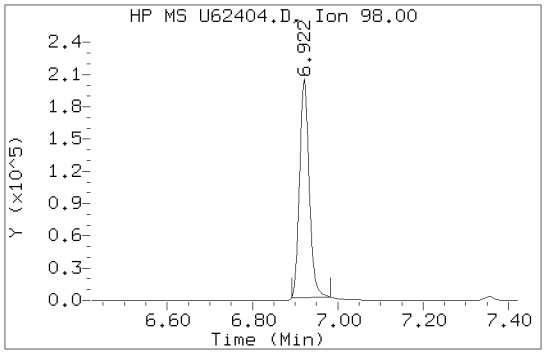

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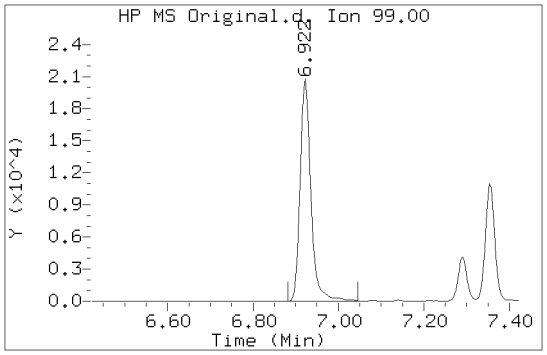

AFTER

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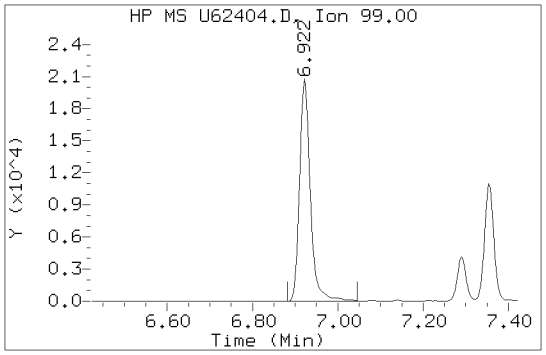

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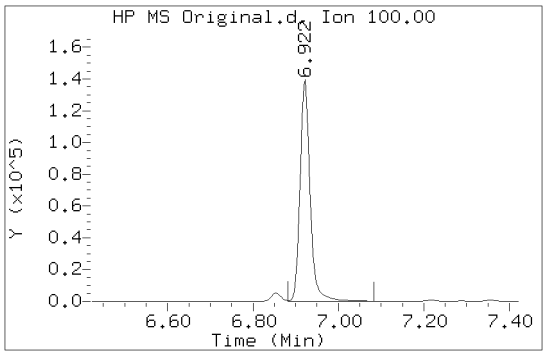

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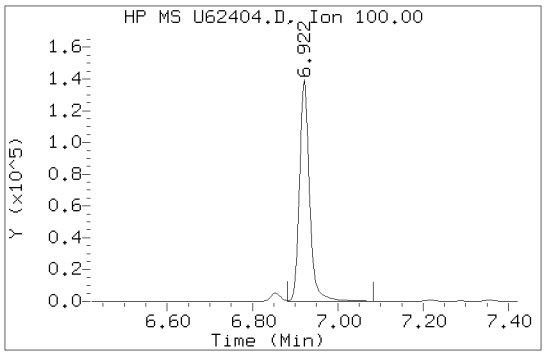

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240624.b\U62406.D Page 1
Report Date: 29-Jun-2024 12:38

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240624.b\U62406.D
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Inj Date : 24-JUN-2024 13:37
Operator : TS Inst ID: VOA9.i
Smp Info : VBLKW-240624;VBLKW-240624;3;;BLANK
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240624.b\8260C.m
Meth Date : 29-Jun-2024 12:38 VOA9.i Quant Type: ISTD
Cal Date : 20-JUN-2024 14:15 Cal File: U62010.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: NAHSTW7014

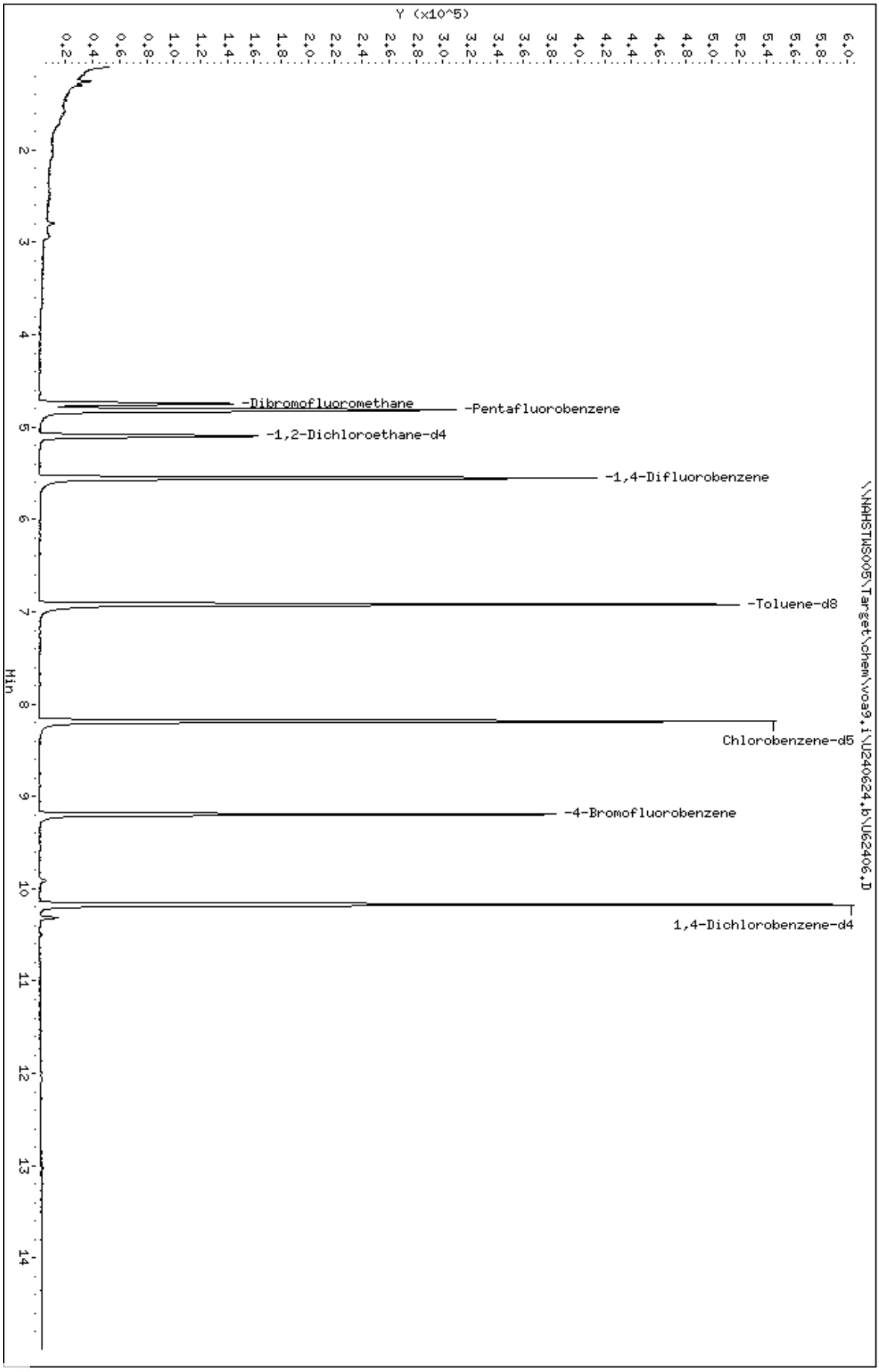
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

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)	231699	50.0000	
$ 30 Dibromofluoromethane	113	4.747	4.748	(0.986)	84922	55.1780	55.17
$ 35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	106372	54.1888	54.18
* 36 1,4-Difluorobenzene	114	5.553	5.554	(1.000)	335457	50.0000	
* 47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	301738	50.0000	
$ 48 Toluene-d8	98	6.922	6.922	(0.846)	327222	55.8716	55.87(M)
$ 69 4-Bromofluorobenzene	95	9.193	9.194	(1.123)	114953	49.9547	49.95
* 70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	156909	50.0000	

QC Flag Legend

M - Compound response manually integrated.



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Sample Info: VBLKW-240624;VBLKW-240624;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\U240624.b\U62406.D
Inj Date : 24-JUN-2024 13:37
InstruID : VOA9.i
LabSampID : VBLKW-240624

Toluene-d8 (2037-26-5)

Reason Code: MPT

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29-Jun-2024
12:37
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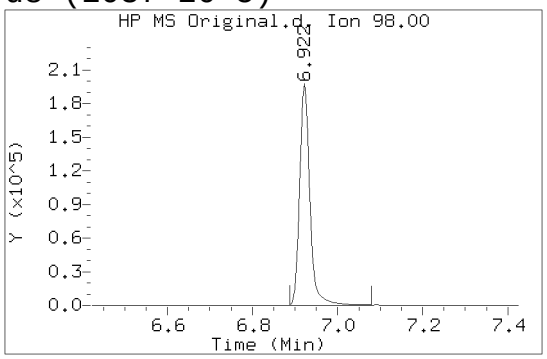

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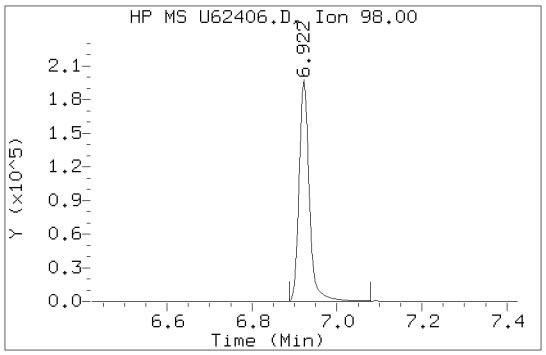

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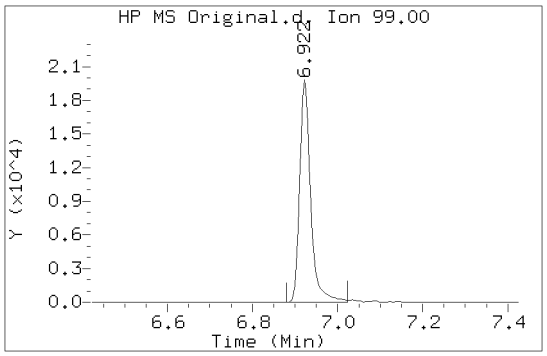

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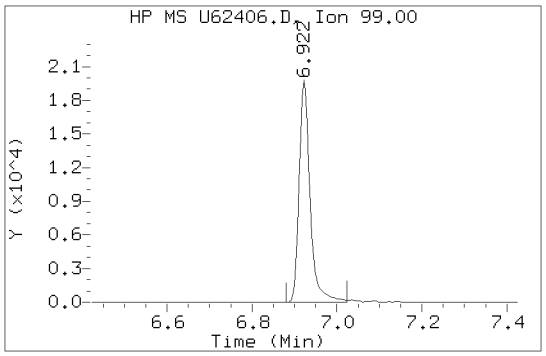

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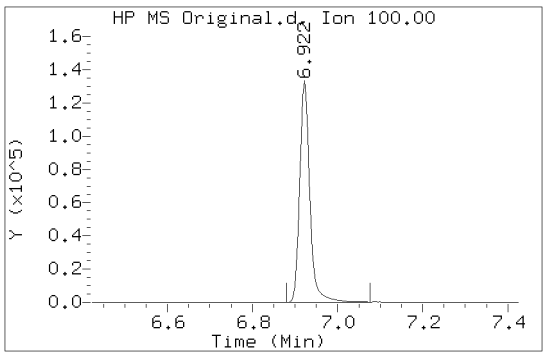

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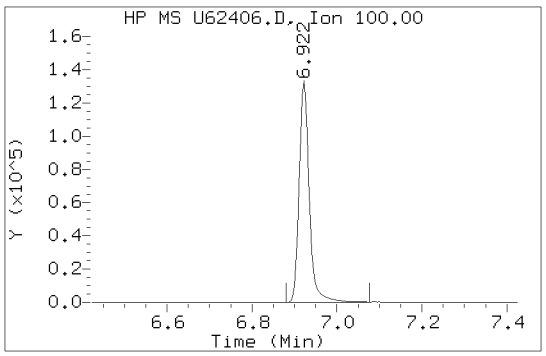


Data File: \\nahstws005\Target\chem\voa9.i\U240624.b\U62423.D Page 1
Report Date: 25-Jun-2024 11:13

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240624.b\U62423.D
Lab Smp Id: HS24060694-04
Inj Date : 24-JUN-2024 19:45
Operator : TS   Inst ID: VOA9.i
Smp Info : HS24060694-04
Misc Info : V9;WATER;0;10;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240624.b\8260C.m
Meth Date : 24-Jun-2024 23:11   Quant Type: ISTD
Cal Date : 20-JUN-2024 14:15   Cal File: U62010.D
Als bottle: 22
Dil Factor: 10.00000
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	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	4.807	4.811	(1.000)	201629	50.0000	
$ 30 Dibromofluoromethane	113	4.740	4.744	(0.986)	72419	54.0716	54.07
$ 35 1,2-Dichloroethane-d4	65	5.089	5.093	(1.058)	92201	53.9745	53.97
* 36 1,4-Difluorobenzene	114	5.546	5.550	(1.000)	292483	50.0000	
38 Trichloroethene	130	5.782	5.786	(1.043)	142244	97.3743	973.74
* 47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	261818	50.0000	
$ 48 Toluene-d8	98	6.918	6.922	(0.845)	280003	55.0988	55.09
$ 69 4-Bromofluorobenzene	95	9.193	9.194	(1.123)	94424	47.2899	47.28
* 70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	132688	50.0000	

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240624.b\U62428.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 24-JUN-2024 21:33
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\U240624.b\8260C.m
Meth Date : 10-Jul-2024 11:38 VOA9.i Quant Type: ISTD
Cal Date : 20-JUN-2024 14:15 Cal File: U62010.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)	237576	50.0000	
2 Dichlorodifluoromethane	85	1.164	1.164	(0.242)	64729	50.0000	38.14
3 Chloromethane	50	1.295	1.295	(0.269)	134155	50.0000	35.33
4 Propionitrile	54	4.336	4.336	(0.900)	100570	500.000	458.15
5 Vinyl Chloride	62	1.378	1.378	(0.286)	84489	50.0000	40.13
6 Bromomethane	94	1.606	1.606	(0.334)	45136	50.0000	57.53
7 Chloroethane	64	1.693	1.693	(0.352)	57909	50.0000	43.49
8 Trichlorofluoromethane	101	1.891	1.891	(0.393)	104852	50.0000	46.07
9 Acrolein	56	2.262	2.262	(0.470)	6330	100.000	85.88
10 Acetone	43	2.409	2.409	(0.500)	50337	100.000	81.50
11 1,1-Dichloroethene	96	2.330	2.330	(0.484)	59034	50.0000	42.59
12 Isobutyl Alcohol	43	5.284	5.284	(1.097)	204999	1000.00	874.06
13 Acetonitrile	39	2.667	2.667	(0.554)	75983	500.000	416.93
14 Allyl Chloride	41	2.671	2.671	(0.555)	180243	50.0000	41.96
15 Iodomethane	142	2.465	2.465	(0.512)	63421	100.000	114.86
16 Acrylonitrile	53	3.065	3.065	(0.636)	50104	100.000	86.37
17 Methylene Chloride	84	2.791	2.791	(0.580)	75677	50.0000	45.21
18 Methyl tert-butyl ether	73	3.076	3.076	(0.639)	173387	50.0000	42.49
19 Carbon Disulfide	76	2.517	2.517	(0.523)	328968	100.000	86.13
20 trans-1,2-Dichloroethene	96	3.053	3.053	(0.634)	66382	50.0000	45.71

21 Vinyl Acetate	43	4.339	4.339 (0.901)	77568	100.000	93.59
22 1,1-Dichloroethane	63	3.511	3.511 (0.729)	122660	50.0000	44.53

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240624.b\U62428.D Page 2
Report Date: 10-Jul-2024 11:38

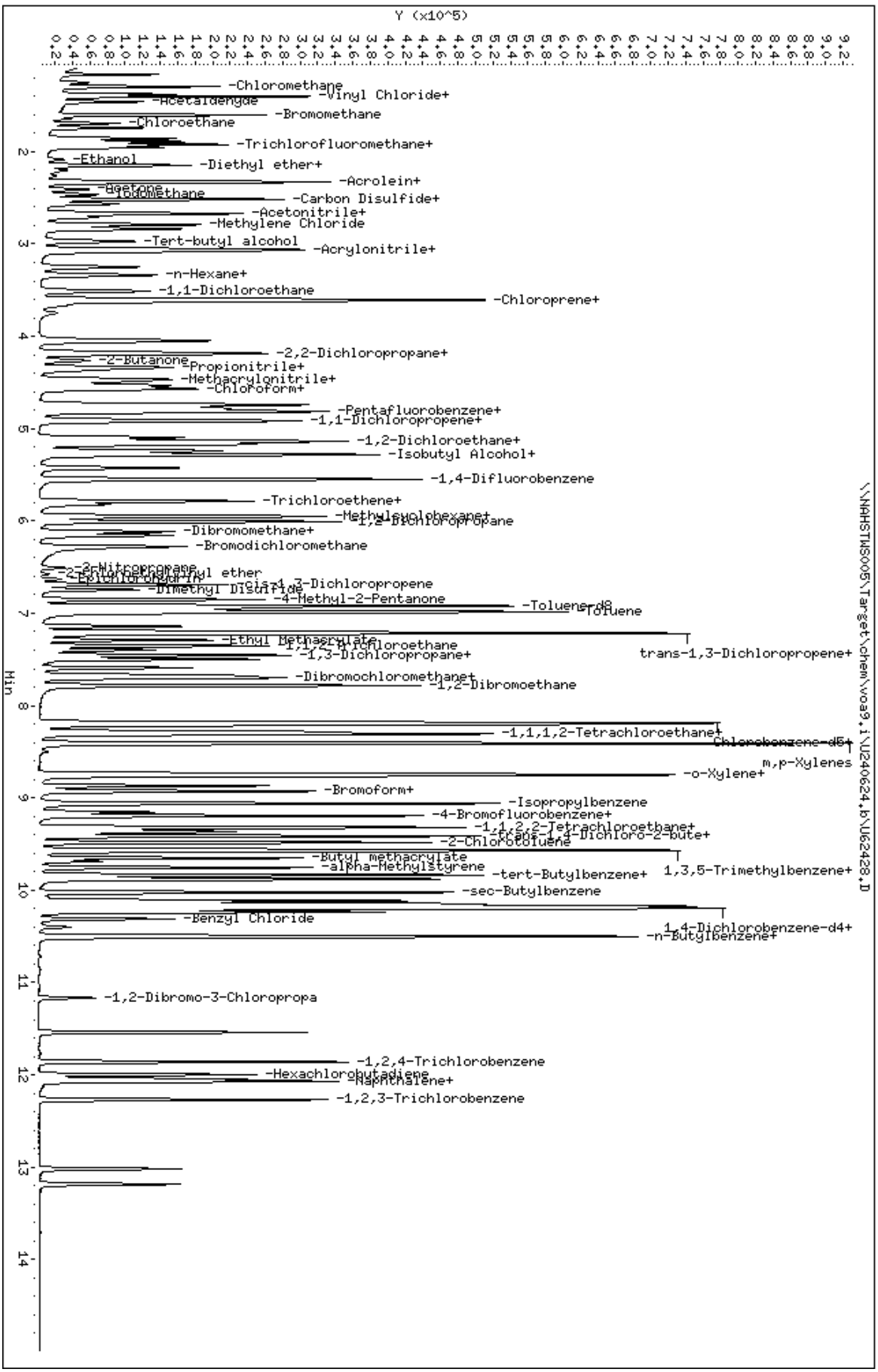
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	3.605	3.605	(0.749)	99126	50.0000	42.02
	24 2-Butanone	43	4.261	4.261	(0.885)	73651	100.000	89.45
	25 Methacrylonitrile	41	4.493	4.493	(0.933)	44535	50.0000	42.93(a)
	26 2,2-Dichloropropane	77	4.178	4.178	(0.868)	90953	50.0000	41.65
	27 cis-1,2-Dichloroethene	96	4.193	4.193	(0.871)	78754	50.0000	45.82
	28 Chloroform	83	4.568	4.568	(0.949)	132409	50.0000	47.09
	29 Bromochloromethane	128	4.467	4.467	(0.928)	41565	50.0000	43.70
$	30 Dibromofluoromethane	113	4.744	4.744	(0.985)	88368	50.0000	55.99
	31 1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	105086	50.0000	47.64
	32 1,1-Dichloropropene	75	4.920	4.920	(0.887)	92335	50.0000	45.13
	33 1,2-Dichloroethane	62	5.171	5.171	(0.932)	105315	50.0000	48.38
	34 Carbon Tetrachloride	117	4.909	4.909	(0.885)	84439	50.0000	49.24
$	35 1,2-Dichloroethane-d4	65	5.093	5.093	(1.058)	103787	50.0000	51.56
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	335344	50.0000	
	37 Benzene	78	5.134	5.134	(0.925)	295789	50.0000	42.85
	38 Trichloroethene	130	5.786	5.786	(1.043)	77366	50.0000	46.19
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	92644	50.0000	47.49
	40 Methyl Methacrylate	41	5.820	5.820	(1.209)	28505	50.0000	45.84
	41 2-Chloroethylvinyl ether	63	6.577	6.577	(1.185)	4707	100.000	101.02
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	80328	50.0000	43.94
	43 2-Nitropropane	43	6.506	6.506	(1.351)	17092	50.0000	45.50
	44 Dibromomethane	93	6.116	6.116	(1.102)	48112	50.0000	45.09
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	152677	100.000	90.00
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	107692	50.0000	47.25
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	307797	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	340941	50.0000	57.06
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	88910	50.0000	41.74
	50 Toluene	91	6.978	6.978	(0.853)	321472	50.0000	45.87
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	88837	50.0000	43.31
	52 2-Hexanone	43	7.214	7.214	(0.881)	99916	100.000	87.57
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	60930	50.0000	44.96
	54 1,3-Dichloropropane	76	7.496	7.496	(0.916)	127936	50.0000	44.92
	55 Dibromochloromethane	129	7.691	7.691	(0.940)	73824	50.0000	52.21
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	62998	50.0000	48.03
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	70727	50.0000	47.28
	58 1-Chlorohexane	55	8.197	8.197	(1.477)	55067	50.0000	42.54
	59 Chlorobenzene	112	8.208	8.208	(1.003)	206618	50.0000	48.47
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	72057	50.0000	47.85
	61 Ethylbenzene	106	8.305	8.305	(1.015)	102049	50.0000	47.05
	62 m,p-Xylenes	106	8.407	8.407	(1.027)	259390	100.000	100.17
	63 o-Xylene	106	8.748	8.748	(1.069)	128729	50.0000	50.44
	64 Styrene	104	8.763	8.763	(1.071)	212891	50.0000	49.90
	66 Bromoform	173	8.920	8.920	(1.090)	46790	50.0000	48.74
	67 Isopropylbenzene	105	9.063	9.063	(1.107)	317824	50.0000	50.20
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	102531	50.0000	47.45
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	127426	50.0000	54.28
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	175099	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	96755	50.0000	43.97
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	17327	50.0000	40.28
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	368099	50.0000	48.61
	74 Bromobenzene	156	9.318	9.318	(0.916)	92753	50.0000	45.08
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	252009	50.0000	43.88

76	2-Chlorotoluene	91	9.482	9.482 (0.932)	229122	50.0000	44.71
77	4-Chlorotoluene	91	9.576	9.576 (0.941)	260958	50.0000	44.87

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.839	9.839	(0.967)	228421	50.0000	49.49
79	1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	241368	50.0000	43.31
81	sec-Butylbenzene	105	10.022	10.022	(0.985)	299241	50.0000	48.68
82	p-Isopropyltoluene	119	10.146	10.146	(0.997)	256999	50.0000	43.61
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	165436	50.0000	43.70
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	171471	50.0000	47.27
86	Benzyl Chloride	91	10.311	10.311	(1.260)	97985	50.0000	33.15
87	n-Butylbenzene	91	10.495	10.495	(1.032)	219967	50.0000	42.02
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	163311	50.0000	43.33
89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	13000	50.0000	48.19
90	1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	105148	50.0000	46.11
91	Hexachlorobutadiene	225	11.998	11.998	(1.179)	45960	50.0000	45.45
92	Naphthalene	128	12.069	12.069	(1.186)	236331	50.0000	44.64
93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	98453	50.0000	47.15
146	Methyl acetate	43	2.712	2.712	(0.563)	62014	50.0000	50.48
138	Freon TF	101	2.330	2.330	(0.484)	60081	50.0000	47.07
141	Cyclohexane	56	4.782	4.782	(0.993)	95832	50.0000	41.67
142	Tetrahydrofuran	42	4.542	4.542	(0.943)	25285	100.000	89.86
147	Methylcyclohexane	55	5.944	5.944	(1.071)	161883	50.0000	45.46
135	1,4-Dioxane	88	6.165	6.165	(1.280)	16465	1000.00	917.75
132	n-Butanol	56	5.824	5.824	(1.209)	39172	1000.00	908.04
136	n-Hexane	57	3.338	3.338	(0.693)	63398	50.0000	41.61
139	Diethyl ether	59	2.143	2.143	(0.445)	48707	50.0000	42.13
148	Tert-butyl alcohol	59	2.971	2.971	(0.617)	120784	1000.00	886.85
149	Isopropyl alcohol	45	2.566	2.566	(0.533)	94131	1000.00	898.39
156	Diisopropyl ether	45	3.620	3.620	(0.752)	216061	50.0000	37.70
162	Butyl acrylate	55	8.733	8.733	(1.067)	116800	50.0000	41.22
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	310314	50.0000	40.93
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	211477	50.0000	42.22
167	Ethanol	45	2.086	2.086	(0.433)	17704	1000.00	877.54
172	tert-Butyl formate	59	5.239	5.239	(1.088)	122861	100.000	103.87
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	396843	1000.00	858.08
140	1,3-Butadiene	54	1.400	1.400	(0.291)	82647	50.0000	40.51
182	Epichlorohydrin	57	6.630	6.630	(1.195)	10590	200.000	182.59
M 94	1,2-Dichloroethylene (total)	96				145136	100.000	(a)
145	alpha-Methylstyrene	118	9.756	9.756	(0.959)	87697	50.0000	43.70
131	Methyl Acrylate	55	4.365	4.365	(0.907)	80462	50.0000	40.86
189	n-Butyl acetate	43	7.706	7.706	(0.941)	112894	50.0000	46.00
134	Cyclohexanone	55	9.153	9.153	(0.900)	48742	1000.00	541.47
185	Isoprene	39	2.150	2.150	(0.447)	14400	50.0000	41.74
188	Isopropyl acetate	43	5.284	5.284	(0.952)	205536	50.0000	45.83
150	Allyl alcohol	57	3.338	3.338	(0.693)	63398	1000.00	832.35
194	Acetaldehyde	44	1.460	1.460	(0.303)	115540	200.000	290.93
200	Dimethyl Disulfide	94	6.746	6.746	(0.824)	45552	50.0000	41.22
133	Ethyl Acrylate	55	5.944	5.944	(1.234)	161883	50.0000	43.31
163	Butyl methacrylate	41	9.647	9.647	(0.948)	76685	50.0000	43.12
159	Propylene oxide	43	2.199	2.199	(0.457)	8689	100.000	80.05
203	2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	73629	50.0000	39.48
204	Tetrahydrothiophene	60	7.672	7.672	(0.937)	76972	50.0000	44.00(A)
205	sec-Butyl Ether	57	7.214	7.214	(0.881)	81326	50.0000	23.64(A)
187	n-Amyl acetate	43	8.931	8.931	(1.091)	119968	50.0000	44.05
206	2-Chloropropene	41	1.921	1.921	(0.399)	130098	50.0000	53.34(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.



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Date : 24-JUN-2024 21:33
Client ID: VSTD050
Sample Info: VSTD050;VSTD050;2;;CCV
Purge Volume: 5.0
Column phase: DB624

Instrument: WOA9,i
Operator: TS
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240624.b\U62428.D
Inj Date : 24-JUN-2024 21:33
InstruID : VOA9.i
LabSampID : VSTD050

NO MANUAL INTEGRATIONS

HS24060694 - ME - HG_W_DODICP_W_DOD

ALS WO# HS24060694

ALS Houston, US Date: 12-Jul-24

FORM 13 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060694
Start Date: 24-Jun-2024 End Date: 24-Jun-2024

Run ID:HG04_470273
Instrument:HG04
Method:SW7470A

Sample No.	D/F	Time	FileID	Analytes
ICV	1	24-Jun-2024 11:25	_8094599	HG
ICB	1	24-Jun-2024 11:27	_8094600	HG
CRA	1	24-Jun-2024 11:28	_8094601	HG
CCV 1	1	24-Jun-2024 11:31	_8094602	HG
CCB 1	1	24-Jun-2024 11:32	_8094603	HG
CCV 2	1	24-Jun-2024 11:58	_8094614	HG
CCB 2	1	24-Jun-2024 12:00	_8094615	HG
CCV 3	1	24-Jun-2024 12:25	_8094626	HG
CCB 3	1	24-Jun-2024 12:26	_8094627	HG
CCV 4	1	24-Jun-2024 12:53	_8094638	HG
CCB 4	1	24-Jun-2024 12:55	_8094639	HG
CCV 5	1	24-Jun-2024 13:19	_8094650	HG
CCB 5	1	24-Jun-2024 13:21	_8094651	HG
CCV 6	1	24-Jun-2024 13:40	_8094662	HG
CCB 6	1	24-Jun-2024 13:42	_8094663	HG
CCV 7	1	24-Jun-2024 14:05	_8094674	HG
CCB 7	1	24-Jun-2024 14:07	_8094675	HG
CCV 8	1	24-Jun-2024 14:34	_8094698	HG
CCB 8	1	24-Jun-2024 14:36	_8094699	HG
MBLK-214008	1	24-Jun-2024 14:42	_8094701	HG
LCS-214008	1	24-Jun-2024 14:44	_8094702	HG
MW3_061124	1	24-Jun-2024 14:46	_8094703	HG
18CPTMW12SW_061124	1	24-Jun-2024 14:48	_8094704	HG
18CPTMW12SW_061124MS	1	24-Jun-2024 14:49	_8094705	HG
18CPTMW12SW_061124MSD	1	24-Jun-2024 14:51	_8094706	HG
18CPTMW12DW_061124	1	24-Jun-2024 14:53	_8094707	HG
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18CPTMW19SW_061124	1	24-Jun-2024 14:56	_8094709	HG
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CCB 9	1	24-Jun-2024 15:01	_8094711	HG
CCV 10	1	24-Jun-2024 15:30	_8094722	HG
CCB 10	1	24-Jun-2024 15:32	_8094723	HG
CCV 11	1	24-Jun-2024 15:53	_8094791	HG
CCB 11	1	24-Jun-2024 15:54	_8094792	HG
CRA	1	24-Jun-2024 15:56	_8094801	HG

ALS Houston, US Date: 12-Jul-24

FORM 13 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060694
Start Date: 25-Jun-2024 End Date: 25-Jun-2024

Run ID:ICPMS07_470364
Instrument:ICPMS07
Method:

Sample No.	D/F	Time	FileID	Analytes
ICPMS07_470364_Tune	1	25-Jun-2024 00:00	ICPMS07_470364_Tune_1	
CAL BLK	1	25-Jun-2024 10:33	010CALB.d_8096746	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
2/10/200	1	25-Jun-2024 10:35	011CALS.d_8096747	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
5/25/500	1	25-Jun-2024 10:38	012CALS.d_8096748	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
10/50/100	1	25-Jun-2024 10:41	013CALS.d_8096749	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
100/500/10K	1	25-Jun-2024 10:43	014CALS.d_8096750	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
200/1000/20K	1	25-Jun-2024 10:46	015CALS.d_8096751	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
100/500/10K	1	25-Jun-2024 10:54	017CALS.d_8096753	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICV	1	25-Jun-2024 11:01	019_ICV.d_8096755	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LLICV2	1	25-Jun-2024 11:06	021LCV2.d_8096757	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LLICV5	1	25-Jun-2024 11:09	022LCV5.d_8096758	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICB	1	25-Jun-2024 11:13	024_ICB.d_8096760	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICSA	1	25-Jun-2024 11:18	026ICSA.d_8096762	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICSAB	1	25-Jun-2024 11:21	027ICSB.d_8096763	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CAL BLK	1	25-Jun-2024 15:47	116CALB.d_8097895	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
2/10/200	1	25-Jun-2024 15:49	117CALS.d_8097896	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
5/25/500	1	25-Jun-2024 15:52	118CALS.d_8097897	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
10/50/100	1	25-Jun-2024 15:54	119CALS.d_8097898	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
100/500/10K	1	25-Jun-2024 15:57	120CALS.d_8097899	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
200/1000/20K	1	25-Jun-2024 15:59	121CALS.d_8097900	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LLCCV2	1	25-Jun-2024 16:11	125LCV2.d_8097904	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LLCCV5	1	25-Jun-2024 16:13	126LCV5.d_8097905	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICCB 1	1	25-Jun-2024 16:15	127_ICB.d_8097906	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICV	1	25-Jun-2024 16:18	128_ICV.d_8097907	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICSA	1	25-Jun-2024 16:29	130ICSA.d_8097918	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICSAB	1	25-Jun-2024 16:32	131ICSB.d_8097919	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCV 1	1	25-Jun-2024 16:42	134_CCV.d_8098136	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCB 2	1	25-Jun-2024 16:44	135_CCB.d_8098137	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
MBLK-213798	1	25-Jun-2024 16:47	136SMPL.d_8098138	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LCS-213798	1	25-Jun-2024 16:49	137SMPL.d_8098139	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE V ZN
MW3_061124SD	5	25-Jun-2024 16:52	138SMPL.d_8098175	AG AS BA BE CA CD CO CR CU FE K MG NI PB SB SE TL V

ALS Houston, US Date: 12-Jul-24

FORM 13 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060694
Start Date: 25-Jun-2024 End Date: 25-Jun-2024

Run ID:ICPMS07_470364
Instrument:ICPMS07
Method:

Sample No.	D/F	Time	FileID	Analytes
MW3_061124	1	25-Jun-2024 16:54	139SMPL.d_8098176	AG AS BA BE CA CD CO CR CU FE K MG NI PB SB SE TL V
MW3_061124MS	1	25-Jun-2024 16:56	140SMPL.d_8098177	AG AS BA BE CA CD CO CR CU FE K MG NI PB SB SE TL V
MW3_061124MSD	1	25-Jun-2024 16:59	141SMPL.d_8098178	AG AS BA BE CA CD CO CR CU FE K MG NI PB SB SE TL V
MW3_061124PDS	1	25-Jun-2024 17:01	142SMPL.d_8098179	AG AS BA BE CD CO CR CU FE K MG NI PB SB SE TL V
CCV 2	1	25-Jun-2024 17:06	144_CCV.d_8098241	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCB 3	1	25-Jun-2024 17:09	145_CCB.d_8098242	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
18CPTMW12SW_061124	1	25-Jun-2024 17:13	147SMPL.d_8098243	AG AL AS BA BE CA CD CO CR CU FE K MG MN NI PB SB SE TL V ZN
18CPTMW12DW_061124	1	25-Jun-2024 17:16	148SMPL.d_8098244	AG AL AS BA BE CA CD CO CR CU FE K MG MN NI PB SB SE TL V ZN
130_061124	1	25-Jun-2024 17:18	149SMPL.d_8098245	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
18CPTMW19SW_061124	1	25-Jun-2024 17:21	150SMPL.d_8098246	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LCS-213798	1	25-Jun-2024 17:33	155SMPL.d_8098251	TL
CCB 4	1	25-Jun-2024 17:38	157_CCB.d_8098253	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCV 3	1	25-Jun-2024 17:52	160_CCV.d_8098256	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCV 4	1	25-Jun-2024 17:54	161_CCV.d_8098257	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCV 5	1	25-Jun-2024 18:22	172_CCV.d_8098363	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCB 5	1	25-Jun-2024 18:25	173_CCB.d_8098364	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
MW3_061124	2	25-Jun-2024 18:38	175SMPL.d_8098366	MN NA
MW3_061124SD	10	25-Jun-2024 18:41	176SMPL.d_8098367	MN NA
MW3_061124MS	2	25-Jun-2024 18:43	177SMPL.d_8098368	MN NA
MW3_061124MSD	2	25-Jun-2024 18:46	178SMPL.d_8098369	MN NA
MW3_061124PDS	2	25-Jun-2024 18:48	179SMPL.d_8098372	MN NA
18CPTMW12SW_061124	20	25-Jun-2024 18:58	180SMPL.d_8098802	NA
18CPTMW12DW_061124	20	25-Jun-2024 19:00	181SMPL.d_8098803	NA
CCV 6	1	25-Jun-2024 19:07	184_CCV.d_8098806	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCB 6	1	25-Jun-2024 19:10	185_CCB.d_8098807	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCV 7	1	25-Jun-2024 19:37	193_CCV.d_8098815	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCB 7	1	25-Jun-2024 19:39	194_CCB.d_8098816	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN

ALS Houston, US Date: 12-Jul-24

FORM 13 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060694
Start Date: 26-Jun-2024 End Date: 26-Jun-2024

Run ID:ICPMS07_470472
Instrument:ICPMS07
Method:

Sample No.	D/F	Time	FileID	Analytes
ICPMS07_470472_Tune	1	26-Jun-2024 00:00	ICPMS07_470472_Tune_1	
CAL BLK	1	26-Jun-2024 10:42	010CALB.d_8099730	AL ZN
2/10/200	1	26-Jun-2024 10:44	011CALS.d_8099731	AL ZN
5/25/500	1	26-Jun-2024 10:47	012CALS.d_8099732	AL ZN
10/50/100	1	26-Jun-2024 10:50	013CALS.d_8099733	AL ZN
100/500/10K	1	26-Jun-2024 10:53	014CALS.d_8099734	AL ZN
200/1000/20K	1	26-Jun-2024 10:55	015CALS.d_8099735	AL ZN
100/500/10K	1	26-Jun-2024 11:06	018CALS.d_8099738	AL ZN
200/1000/20K	1	26-Jun-2024 11:09	019CALS.d_8099739	AL ZN
ICV	1	26-Jun-2024 11:15	021_ICV.d_8099741	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LLICV2	1	26-Jun-2024 11:19	023LCV2.d_8099743	AL ZN
LLICV5	1	26-Jun-2024 11:22	024LCV5.d_8099744	AL ZN
ICB	1	26-Jun-2024 11:24	025_ICB.d_8099745	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICSA	1	26-Jun-2024 11:31	027ICSA.d_8099755	AL ZN
ICSAB	1	26-Jun-2024 11:34	028ICSB.d_8099756	AL ZN
CCV 1	1	26-Jun-2024 11:52	033_CCV.d_8099811	AL ZN
CCB 1	1	26-Jun-2024 11:55	034_CCB.d_8099812	AL ZN
MW3_061124	1	26-Jun-2024 12:09	039SMPL.d_8099860	AL ZN
MW3_061124SD	5	26-Jun-2024 12:15	041SMPL.d_8099862	AL ZN
MW3_061124MS	1	26-Jun-2024 12:18	042SMPL.d_8099863	AL ZN
MW3_061124MSD	1	26-Jun-2024 12:20	043SMPL.d_8099864	AL ZN
MW3_061124PDS	1	26-Jun-2024 12:23	044SMPL.d_8099865	AL ZN
CCV 2	1	26-Jun-2024 12:33	046_CCV.d_8099902	AL ZN
CCB 2	1	26-Jun-2024 12:35	047_CCB.d_8099903	AL ZN

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060694

Run ID: HG04_470273
Instrument: HG04
Method: SW7470A

ICV	Date: 24-Jun-2024 11:25		Seq: 8094599	ICV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	5.09	102	90-110	

CCV1	Date: 24-Jun-2024 11:31		Seq: 8094602	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	5	100	90-110	

CCV2	Date: 24-Jun-2024 11:58		Seq: 8094614	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	5.02	100	90-110	

CCV3	Date: 24-Jun-2024 12:25		Seq: 8094626	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.96	99	90-110	

CCV4	Date: 24-Jun-2024 12:53		Seq: 8094638	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	5	100	90-110	

CCV5	Date: 24-Jun-2024 13:19		Seq: 8094650	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.89	98	90-110	

CCV6	Date: 24-Jun-2024 13:40		Seq: 8094662	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.91	98	90-110	

CCV7	Date: 24-Jun-2024 14:05		Seq: 8094674	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.95	99	90-110	

CCV8	Date: 24-Jun-2024 14:34		Seq: 8094698	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.96	99	90-110	

CCV9	Date: 24-Jun-2024 15:00		Seq: 8094710	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.85	97	90-110	

CCV10	Date: 24-Jun-2024 15:30		Seq: 8094722	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.86	97	90-110	

CCV11	Date: 24-Jun-2024 15:53		Seq: 8094791	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.81	96	90-110	

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060694

Run ID: ICPMS07_470364
Instrument: ICPMS07
Method: SW6020A

ICV | Date: 25-Jun-2024 11:01 | Seq: 8096755 | ICV | Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	101.737	102	90-110	
Antimony	100	98.221	98	90-110	
Arsenic	100	98.763	99	90-110	
Barium	100	97.648	98	90-110	
Beryllium	100	95.306	95	90-110	
Cadmium	100	97.871	98	90-110	
Calcium	10000	9802.618	98	90-110	
Chromium	100	98.598	99	90-110	
Cobalt	100	98.666	99	90-110	
Copper	100	99.362	99	90-110	
Iron	10000	9861.289	99	90-110	
Lead	100	98.592	99	90-110	
Magnesium	10000	9883.176	99	90-110	
Manganese	100	97.656	98	90-110	
Nickel	100	99.46	100	90-110	
Potassium	10000	9921.599	99	90-110	
Selenium	100	97.877	98	90-110	
Silver	100	99.433	99	90-110	
Sodium	10000	9777.302	98	90-110	
Thallium	100	97.837	98	90-110	
Vanadium	100	98.092	98	90-110	
Zinc	100	99.966	100	90-110	

ICV | Date: 25-Jun-2024 16:18 | Seq: 8097907 | ICV | Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	101.7	102	90-110	
Antimony	100	99.177	99	90-110	
Arsenic	100	100.233	100	90-110	
Barium	100	98.472	99	90-110	
Beryllium	100	99.663	100	90-110	
Cadmium	100	98.208	98	90-110	
Calcium	10000	9861.725	99	90-110	
Chromium	100	100.212	100	90-110	
Cobalt	100	100.957	101	90-110	
Copper	100	100.887	101	90-110	
Iron	10000	10077.376	101	90-110	
Lead	100	98.36	98	90-110	
Magnesium	10000	10086.049	101	90-110	
Manganese	100	99.976	100	90-110	
Nickel	100	101.174	101	90-110	
Potassium	10000	10033.475	100	90-110	
Selenium	100	101.341	101	90-110	
Silver	100	99.246	99	90-110	
Sodium	10000	10020.113	100	90-110	
Thallium	100	98.785	99	90-110	
Vanadium	100	99.833	100	90-110	
Zinc	100	102.229	102	90-110	

CCV1 | Date: 25-Jun-2024 16:42 | Seq: 8098136 | CCV | Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	99.661	100	90-110	
Antimony	100	100.093	100	90-110	
Arsenic	100	99.895	100	90-110	
Barium	100	98.473	99	90-110	
Beryllium	100	100.052	100	90-110	

ALS Houston, US Date: 12-Jul-24

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060694

Run ID: ICPMS07_470364
Instrument: ICPMS07
Method: SW6020A

CCV1	Date: 25-Jun-2024 16:42	Seq: 8098136	CCV	Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Cadmium	100	98.143	98	90-110	
Calcium	10000	9724.528	97	90-110	
Chromium	100	100.18	100	90-110	
Cobalt	100	101.461	101	90-110	
Copper	100	100.976	101	90-110	
Iron	10000	10111.096	101	90-110	
Lead	100	98.877	99	90-110	
Magnesium	10000	10025.231	100	90-110	
Manganese	100	98.574	99	90-110	
Nickel	100	100.915	101	90-110	
Potassium	10000	10028.992	100	90-110	
Selenium	100	99.498	100	90-110	
Silver	100	99.724	100	90-110	
Sodium	10000	9968.711	100	90-110	
Thallium	100	99.346	99	90-110	
Vanadium	100	99.859	100	90-110	
Zinc	100	101.242	101	90-110	

CCV2	Date: 25-Jun-2024 17:06	Seq: 8098241	CCV	Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	97.872	98	90-110	
Antimony	100	96.741	97	90-110	
Arsenic	100	96.526	97	90-110	
Barium	100	96.245	96	90-110	
Beryllium	100	97.275	97	90-110	
Cadmium	100	96.019	96	90-110	
Calcium	10000	9436.495	94	90-110	
Chromium	100	96.516	97	90-110	
Cobalt	100	98.328	98	90-110	
Copper	100	97.409	97	90-110	
Iron	10000	9787.536	98	90-110	
Lead	100	96.434	96	90-110	
Magnesium	10000	9724.745	97	90-110	
Manganese	100	95.82	96	90-110	
Nickel	100	98.209	98	90-110	
Potassium	10000	9702.682	97	90-110	
Selenium	100	97.324	97	90-110	
Silver	100	97.527	98	90-110	
Sodium	10000	9703.901	97	90-110	
Thallium	100	96.511	97	90-110	
Vanadium	100	96.083	96	90-110	
Zinc	100	98.45	98	90-110	

CCV3	Date: 25-Jun-2024 17:52	Seq: 8098256	CCV	Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	95.537	96	90-110	
Antimony	100	103.951	104	90-110	
Arsenic	100	97.384	97	90-110	
Barium	100	102.548	103	90-110	
Beryllium	100	100.967	101	90-110	
Cadmium	100	101.219	101	90-110	
Calcium	10000	9003.431	90	90-110	
Chromium	100	98.42	98	90-110	
Cobalt	100	100.127	100	90-110	
Copper	100	99.725	100	90-110	

ALS Houston, US Date: 12-Jul-24

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060694

Run ID: ICPMS07_470364
Instrument: ICPMS07
Method: SW6020A

CCV3	Date: 25-Jun-2024 17:52	Seq: 8098256	CCV	Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Iron	10000	9429.504	94	90-110	
Lead	100	102.627	103	90-110	
Magnesium	10000	9246.09	93	90-110	
Manganese	100	97.305	97	90-110	
Nickel	100	99.279	99	90-110	
Potassium	10000	9209.335	92	90-110	
Selenium	100	100.034	100	90-110	
Silver	100	100.494	100	90-110	
Sodium	10000	9134.974	91	90-110	
Thallium	100	106.156	106	90-110	
Vanadium	100	98.163	98	90-110	
Zinc	100	99.11	99	90-110	

CCV4	Date: 25-Jun-2024 17:54	Seq: 8098257	CCV	Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	98.933	99	90-110	
Antimony	100	106.238	106	90-110	
Arsenic	100	99.027	99	90-110	
Barium	100	102.938	103	90-110	
Beryllium	100	102.485	102	90-110	
Cadmium	100	103.567	104	90-110	
Calcium	10000	9248.044	93	90-110	
Chromium	100	99.401	99	90-110	
Cobalt	100	101.307	101	90-110	
Copper	100	101.821	102	90-110	
Iron	10000	9487.578	95	90-110	
Lead	100	103.679	104	90-110	
Magnesium	10000	9480.477	95	90-110	
Manganese	100	98.323	98	90-110	
Nickel	100	100.589	101	90-110	
Potassium	10000	9539.387	95	90-110	
Selenium	100	100.827	101	90-110	
Silver	100	102.702	103	90-110	
Sodium	10000	9343.703	93	90-110	
Thallium	100	107.679	108	90-110	
Vanadium	100	100.231	100	90-110	
Zinc	100	101.613	102	90-110	

CCV5	Date: 25-Jun-2024 18:22	Seq: 8098363	CCV	Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	98.265	98	90-110	
Antimony	100	107.828	108	90-110	
Arsenic	100	99.941	100	90-110	
Barium	100	103.012	103	90-110	
Beryllium	100	102.052	102	90-110	
Cadmium	100	102.446	102	90-110	
Calcium	10000	9215.957	92	90-110	
Chromium	100	101.574	102	90-110	
Cobalt	100	102.382	102	90-110	
Copper	100	102.639	103	90-110	
Iron	10000	9627.994	96	90-110	
Lead	100	102.433	102	90-110	
Magnesium	10000	9426.381	94	90-110	
Manganese	100	99.289	99	90-110	
Nickel	100	101.173	101	90-110	

ALS Houston, US

Date: 12-Jul-24

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060694

Run ID: ICPMS07_470364
Instrument: ICPMS07
Method: SW6020A

CCV5 Date: 25-Jun-2024 18:22 Seq: 8098363 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Potassium	10000	9415.508	94	90-110	
Selenium	100	101.565	102	90-110	
Silver	100	102.055	102	90-110	
Sodium	10000	9295.562	93	90-110	
Thallium	100	105.893	106	90-110	
Vanadium	100	100.677	101	90-110	
Zinc	100	100.921	101	90-110	

CCV6 Date: 25-Jun-2024 19:07 Seq: 8098806 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	98.829	99	90-110	
Antimony	100	105.92	106	90-110	
Arsenic	100	99.555	100	90-110	
Barium	100	102.416	102	90-110	
Beryllium	100	103.294	103	90-110	
Cadmium	100	102.062	102	90-110	
Calcium	10000	9154.792	92	90-110	
Chromium	100	99.183	99	90-110	
Cobalt	100	101.235	101	90-110	
Copper	100	101.894	102	90-110	
Iron	10000	9483.686	95	90-110	
Lead	100	101.583	102	90-110	
Magnesium	10000	9412.361	94	90-110	
Manganese	100	98.55	99	90-110	
Nickel	100	101.102	101	90-110	
Potassium	10000	9373.544	94	90-110	
Selenium	100	100.185	100	90-110	
Silver	100	100.909	101	90-110	
Sodium	10000	9309.643	93	90-110	
Thallium	100	105.634	106	90-110	
Vanadium	100	99.303	99	90-110	
Zinc	100	101.532	102	90-110	

CCV7 Date: 25-Jun-2024 19:37 Seq: 8098815 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	99.134	99	90-110	
Antimony	100	107.32	107	90-110	
Arsenic	100	100.75	101	90-110	
Barium	100	102.687	103	90-110	
Beryllium	100	104.158	104	90-110	
Cadmium	100	102.609	103	90-110	
Calcium	10000	9359.178	94	90-110	
Chromium	100	100.437	100	90-110	
Cobalt	100	102.304	102	90-110	
Copper	100	102.677	103	90-110	
Iron	10000	9568.008	96	90-110	
Lead	100	101.885	102	90-110	
Magnesium	10000	9538.159	95	90-110	
Manganese	100	99.679	100	90-110	
Nickel	100	102.102	102	90-110	
Potassium	10000	9502.388	95	90-110	
Selenium	100	101.762	102	90-110	
Silver	100	100.744	101	90-110	
Sodium	10000	9486.946	95	90-110	
Thallium	100	105.725	106	90-110	

ALS Houston, US Date: 12-Jul-24

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060694

Run ID: ICPMS07_470364
Instrument: ICPMS07
Method: SW6020A

CCV7 Date: 25-Jun-2024 19:37 Seq: 8098815 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Vanadium	100	100.93	101	90-110	
Zinc	100	101.864	102	90-110	

ALS Houston, US Date: 12-Jul-24

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060694

Run ID: ICPMS07_470472
Instrument: ICPMS07
Method: SW6020A

ICV Date: 26-Jun-2024 11:15 Seq: 8099741 ICV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	99.81	100	90-110	
Zinc	100	102.9	103	90-110	

CCV1 Date: 26-Jun-2024 11:52 Seq: 8099811 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	99.47	100	90-110	
Zinc	100	100.642	101	90-110	

CCV2 Date: 26-Jun-2024 12:33 Seq: 8099902 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	104.669	105	90-110	
Zinc	100	103.778	104	90-110	

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060694

Run ID: HG04_470273
Instrument: HG04
Method: SW7470A

ICB	Date: 24-Jun-2024 11:27		Seq: 8094600	ICB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

CCB1	Date: 24-Jun-2024 11:32		Seq: 8094603	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

CCB2	Date: 24-Jun-2024 12:00		Seq: 8094615	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

CCB3	Date: 24-Jun-2024 12:26		Seq: 8094627	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

CCB4	Date: 24-Jun-2024 12:55		Seq: 8094639	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

CCB5	Date: 24-Jun-2024 13:21		Seq: 8094651	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

CCB6	Date: 24-Jun-2024 13:42		Seq: 8094663	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

CCB7	Date: 24-Jun-2024 14:07		Seq: 8094675	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

CCB8	Date: 24-Jun-2024 14:36		Seq: 8094699	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

MBLK-214008	Date: 24-Jun-2024 14:42		Seq: 8094701	MBLK	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

CCB9	Date: 24-Jun-2024 15:01		Seq: 8094711	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

CCB10	Date: 24-Jun-2024 15:32		Seq: 8094723	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

CCB11	Date: 24-Jun-2024 15:54		Seq: 8094792	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060694

Run ID: ICPMS07_470364
Instrument: ICPMS07
Method: SW6020A

ICB	Date: 25-Jun-2024 11:13		Seq: 8096760	ICB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	2.696	1.8	10	J	
Antimony	5	0.4	5	U	
Arsenic	5	0.4	5	U	
Barium	5	1.9	5	U	
Beryllium	2	0.2	2	U	
Cadmium	2	0.2	2	U	
Calcium	69.22	34	500	J	
Chromium	5	0.4	5	U	
Cobalt	5	0.1	5	U	
Copper	5	1	5	U	
Iron	200	12	200	U	
Lead	5	0.6	5	U	
Magnesium	200	10	200	U	
Manganese	5	0.7	5	U	
Nickel	5	0.6	5	U	
Potassium	200	18	200	U	
Selenium	5	1.1	5	U	
Silver	5	0.2	5	U	
Sodium	-31.07	14	200	J	
Thallium	2	0.2	2	U	
Vanadium	5	0.6	5	U	
Zinc	5	2	5	U	

ICCB1	Date: 25-Jun-2024 16:15		Seq: 8097906	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	2.058	1.8	10	J	
Antimony	5	0.4	5	U	
Arsenic	5	0.4	5	U	
Barium	5	1.9	5	U	
Beryllium	2	0.2	2	U	
Cadmium	2	0.2	2	U	
Calcium	42.64	34	500	J	
Chromium	5	0.4	5	U	
Cobalt	5	0.1	5	U	
Copper	5	1	5	U	
Iron	200	12	200	U	
Lead	5	0.6	5	U	
Magnesium	200	10	200	U	
Manganese	5	0.7	5	U	
Nickel	5	0.6	5	U	
Potassium	200	18	200	U	
Selenium	5	1.1	5	U	
Silver	5	0.2	5	U	
Sodium	-56.34	14	200	J	
Thallium	2	0.2	2	U	
Vanadium	5	0.6	5	U	
Zinc	5	2	5	U	

CCB2	Date: 25-Jun-2024 16:44		Seq: 8098137	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	10	1.8	10	U	
Antimony	2	0.4	2	U	
Arsenic	2	0.4	2	U	
Barium	4	1.9	4	U	
Beryllium	2	0.2	2	U	

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060694

Run ID: ICPMS07_470364
Instrument: ICPMS07
Method: SW6020A

CCB2	Date: 25-Jun-2024 16:44		Seq: 8098137	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Cadmium	2	0.2	2	U	
Calcium	500	34	500	U	
Chromium	-0.483	0.4	4	J	
Cobalt	5	0.2	5	U	
Copper	2	1	2	U	
Iron	200	12	200	U	
Lead	2	0.6	2	U	
Magnesium	200	10	200	U	
Manganese	5	0.7	5	U	
Nickel	2	0.6	2	U	
Potassium	200	18	200	U	
Selenium	2	1.1	2	U	
Silver	2	0.2	2	U	
Sodium	-81.6	14	200	J	
Thallium	2	0.2	2	U	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

MBLK-213798	Date: 25-Jun-2024 16:47		Seq: 8098138	MBLK	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	10	1.8	10	U	
Antimony	5	0.4	5	U	
Arsenic	5	0.4	5	U	
Barium	5	1.9	5	U	
Beryllium	2	0.2	2	U	
Cadmium	2	0.2	2	U	
Calcium	500	34	500	U	
Chromium	5	0.4	5	U	
Cobalt	5	0.1	5	U	
Copper	5	1	5	U	
Iron	200	12	200	U	
Lead	5	0.6	5	U	
Magnesium	200	10	200	U	
Manganese	5	0.7	5	U	
Nickel	5	0.6	5	U	
Potassium	200	18	200	U	
Selenium	5	1.1	5	U	
Silver	5	0.2	5	U	
Sodium	200	14	200	U	
Thallium	2	0.2	2	U	
Vanadium	5	0.6	5	U	
Zinc	5	2	5	U	

CCB3	Date: 25-Jun-2024 17:09		Seq: 8098242	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	10	1.8	10	U	
Antimony	2	0.4	2	U	
Arsenic	2	0.4	2	U	
Barium	4	1.9	4	U	
Beryllium	2	0.2	2	U	
Cadmium	2	0.2	2	U	
Calcium	500	34	500	U	
Chromium	-0.466	0.4	4	J	
Cobalt	5	0.2	5	U	
Copper	2	1	2	U	

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060694

Run ID: ICPMS07_470364
Instrument: ICPMS07
Method: SW6020A

CCB3	Date: 25-Jun-2024 17:09		Seq: 8098242	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Iron	200	12	200	U	
Lead	2	0.6	2	U	
Magnesium	200	10	200	U	
Manganese	5	0.7	5	U	
Nickel	2	0.6	2	U	
Potassium	200	18	200	U	
Selenium	2	1.1	2	U	
Silver	2	0.2	2	U	
Sodium	-56.58	14	200	J	
Thallium	2	0.2	2	U	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB4	Date: 25-Jun-2024 17:38		Seq: 8098253	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	10	1.8	10	U	
Antimony	2	0.4	2	U	
Arsenic	2	0.4	2	U	
Barium	4	1.9	4	U	
Beryllium	2	0.2	2	U	
Cadmium	2	0.2	2	U	
Calcium	500	34	500	U	
Chromium	-0.494	0.4	4	J	
Cobalt	5	0.2	5	U	
Copper	2	1	2	U	
Iron	200	12	200	U	
Lead	2	0.6	2	U	
Magnesium	200	10	200	U	
Manganese	5	0.7	5	U	
Nickel	2	0.6	2	U	
Potassium	200	18	200	U	
Selenium	2	1.1	2	U	
Silver	2	0.2	2	U	
Sodium	200	14	200	U	
Thallium	2	0.2	2	U	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB5	Date: 25-Jun-2024 18:25		Seq: 8098364	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	10	1.8	10	U	
Antimony	2	0.4	2	U	
Arsenic	2	0.4	2	U	
Barium	4	1.9	4	U	
Beryllium	2	0.2	2	U	
Cadmium	2	0.2	2	U	
Calcium	500	34	500	U	
Chromium	-0.456	0.4	4	J	
Cobalt	5	0.2	5	U	
Copper	2	1	2	U	
Iron	200	12	200	U	
Lead	2	0.6	2	U	
Magnesium	200	10	200	U	
Manganese	5	0.7	5	U	
Nickel	2	0.6	2	U	

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060694

Run ID: ICPMS07_470364
Instrument: ICPMS07
Method: SW6020A

CCB5	Date: 25-Jun-2024 18:25		Seq: 8098364	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Potassium	200	18	200	U	
Selenium	2	1.1	2	U	
Silver	2	0.2	2	U	
Sodium	-57.33	14	200	J	
Thallium	2	0.2	2	U	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB6	Date: 25-Jun-2024 19:10		Seq: 8098807	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	10	1.8	10	U	
Antimony	2	0.4	2	U	
Arsenic	2	0.4	2	U	
Barium	4	1.9	4	U	
Beryllium	2	0.2	2	U	
Cadmium	2	0.2	2	U	
Calcium	500	34	500	U	
Chromium	-0.43	0.4	4	J	
Cobalt	5	0.2	5	U	
Copper	2	1	2	U	
Iron	200	12	200	U	
Lead	2	0.6	2	U	
Magnesium	200	10	200	U	
Manganese	5	0.7	5	U	
Nickel	2	0.6	2	U	
Potassium	200	18	200	U	
Selenium	2	1.1	2	U	
Silver	2	0.2	2	U	
Sodium	-64.93	14	200	J	
Thallium	2	0.2	2	U	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB7	Date: 25-Jun-2024 19:39		Seq: 8098816	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	10	1.8	10	U	
Antimony	2	0.4	2	U	
Arsenic	2	0.4	2	U	
Barium	4	1.9	4	U	
Beryllium	2	0.2	2	U	
Cadmium	2	0.2	2	U	
Calcium	500	34	500	U	
Chromium	-0.459	0.4	4	J	
Cobalt	5	0.2	5	U	
Copper	2	1	2	U	
Iron	200	12	200	U	
Lead	2	0.6	2	U	
Magnesium	200	10	200	U	
Manganese	5	0.7	5	U	
Nickel	2	0.6	2	U	
Potassium	200	18	200	U	
Selenium	2	1.1	2	U	
Silver	2	0.2	2	U	
Sodium	-62.13	14	200	J	
Thallium	2	0.2	2	U	

ALS Houston, US Date: 12-Jul-24

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060694

Run ID: ICPMS07_470364
Instrument: ICPMS07
Method: SW6020A

CCB7 Date: 25-Jun-2024 19:39 Seq: 8098816 CCB Units: ug/L

Analyte	Result	MDL	Report Limit	Qual
Vanadium	5	0.6	5	U
Zinc	4	2	4	U

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060694

Run ID: ICPMS07_470472
Instrument: ICPMS07
Method: SW6020A

ICB	Date: 26-Jun-2024 11:24		Seq: 8099745	ICB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	3.346	1.8	10	J	
Zinc	5	2	5	U	
CCB1	Date: 26-Jun-2024 11:55		Seq: 8099812	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	5.124	1.8	10	J	
Zinc	3.089	2	4	J	
CCB2	Date: 26-Jun-2024 12:35		Seq: 8099903	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	2.554	1.8	10	J	
Zinc	4	2	4	U	

ALS Houston, US Date: 12-Jul-24

Form 4 - ICP Interference Check Sample

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060694

Run ID:ICPMS07_470364
Instrument:ICPMS07
Method:SW6020A

ICSA	Date: 25-Jun-2024 11:18	Seq: 8096762	ICSA	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Aluminum	100000	98850	98.9	
Antimony		0.072	0	
Arsenic		0.362	0	
Barium		0.556	0	
Beryllium		0.03	0	
Cadmium		0.793	0	
Calcium	100000	98040	98.0	
Chromium		0.808	0	
Cobalt		0.956	0	
Copper		0.69	0	
Iron	100000	96530	96.5	
Lead		0.863	0	
Magnesium	100000	97060	97.1	
Manganese		1.726	0	
Nickel		1.007	0	
Potassium	100000	97960	98.0	
Selenium		0.024	0	
Silver		0.046	0	
Sodium	100000	98280	98.3	
Thallium		0.008	0	
Vanadium		0.211	0	
Zinc		3.182	0	

ICSAB	Date: 25-Jun-2024 11:21	Seq: 8096763	ICSAB	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Aluminum	100500	101100	101	
Antimony	100	99.77	99.8	
Arsenic	100	103.3	103	
Barium	100	102.8	103	
Beryllium	100	87.55	87.6	
Cadmium	100	98.96	99.0	
Calcium	110000	110000	100.0	
Chromium	100	101.1	101	
Cobalt	100	99.03	99.0	
Copper	100	96.24	96.2	
Iron	110000	109100	99.1	
Lead	100	103.6	104	
Magnesium	110000	109000	99.1	
Manganese	100	100.4	100	
Nickel	100	95.96	96.0	
Potassium	110000	111200	101	
Selenium	100	102.6	103	
Silver	100	98.92	98.9	
Sodium	110000	110900	101	
Thallium	100	101.8	102	
Vanadium	100	102.3	102	
Zinc	100	100.2	100	

ICSA	Date: 25-Jun-2024 16:29	Seq: 8097918	ICSA	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Aluminum	100000	104000	104	
Antimony		0.146	0	
Arsenic		0.371	0	
Barium		0.439	0	

ALS Houston, US Date: 12-Jul-24

Form 4 - ICP Interference Check Sample

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060694

Run ID:ICPMS07_470364
Instrument:ICPMS07
Method:SW6020A

ICSA	Date: 25-Jun-2024 16:29	Seq: 8097918	ICSA	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Beryllium		0.026	0	
Cadmium		0.735	0	
Calcium	100000	99410	99.4	
Chromium		0.806	0	
Cobalt		1.01	0	
Copper		0.708	0	
Iron	100000	98350	98.3	
Lead		0.874	0	
Magnesium	100000	98850	98.8	
Manganese		1.81	0	
Nickel		0.998	0	
Potassium	100000	101200	101	
Selenium		0.151	0	
Silver		0.025	0	
Sodium	100000	99970	100.0	
Thallium		0.006	0	
Vanadium		0.267	0	
Zinc		2.944	0	

ICSAB	Date: 25-Jun-2024 16:32	Seq: 8097919	ICSAB	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Aluminum	100500	98710	98.2	
Antimony	100	101.2	101	
Arsenic	100	100.3	100	
Barium	100	102.8	103	
Beryllium	100	96.89	96.9	
Cadmium	100	100.1	100	
Calcium	110000	104700	95.2	
Chromium	100	97.58	97.6	
Cobalt	100	96.53	96.5	
Copper	100	93.87	93.9	
Iron	110000	104900	95.3	
Lead	100	103.3	103	
Magnesium	110000	104400	95.0	
Manganese	100	97.5	97.5	
Nickel	100	94.09	94.1	
Potassium	110000	105900	96.3	
Selenium	100	102.8	103	
Silver	100	98.54	98.5	
Sodium	110000	105800	96.1	
Thallium	100	97.34	97.3	
Vanadium	100	99.39	99.4	
Zinc	100	98.54	98.5	

ALS Houston, US Date: 12-Jul-24

Form 4 - ICP Interference Check Sample

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060694

Run ID: ICPMS07_470472
Instrument: ICPMS07
Method: SW6020A

ICSA	Date: 26-Jun-2024 11:31	Seq: 8099755	ICSA	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Aluminum	100000	107500	107	
Zinc		3.199	0	

ICSAB	Date: 26-Jun-2024 11:34	Seq: 8099756	ICSAB	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Aluminum	100500	105900	105	
Zinc	100	105.9	106	

ALS Houston, US Date: 12-Jul-24

Form 5A - Matrix Spike/Matrix Spike Duplicate Recovery

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060694

Date Analyzed: 24-Jun-2024 14:51
Date Extracted: 24-Jun-2024 09:00
Units: ug/L

Matrix Spike: HS24060694-02MS
Client Sample ID: 18CPTMW12SW_061124

Analysis Method: SW7470A

Analyte	Sample Result	MS Result	Spike Amount	% Rec	MSD Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Mercury	0.2000	4.760	5.000	94.9	4.690	5.000	93.5	82-119	1.48	20

ALS Houston, US

Date: 12-Jul-24

Form 5A - Matrix Spike/Matrix Spike Duplicate Recovery

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060694

Date Analyzed: 25-Jun-2024 16:59
Date Extracted: 19-Jun-2024 15:00
Units: ug/L

Matrix Spike: HS24060694-01MS
Client Sample ID: MW3_061124

Analysis Method: SW6020A

Analyte	Sample Result	MS Result	Spike Amount	% Rec	MSD Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Antimony	5.000	49.64	50.00	98.7	49.77	50.00	98.9	85-117	0.243	20
Arsenic	5.000	49.35	50.00	98.0	49.62	50.00	98.6	84-116	0.538	20
Barium	199.4	244.3	50.00	89.7	243.8	50.00	88.6	86-114	0.211	20
Beryllium	2.000	48.89	50.00	97.7	49.08	50.00	98.1	83-121	0.378	20
Cadmium	2.000	48.23	50.00	96.2	48.43	50.00	96.6	87-115	0.422	20
Calcium	16200	20760	5000	91.3	20950	5000	95.0	87-118	0.884	20
Chromium	1.750	48.65	50.00	93.8	48.85	50.00	94.2	85-116	0.404	20
Cobalt	0.9010	48.27	50.00	94.7	48.79	50.00	95.8	86-115	1.07	20
Copper	1.140	48.62	50.00	95.0	48.90	50.00	95.5	85-118	0.574	20
Iron	221.7	5025	5000	96.1	5078	5000	97.1	87-118	1.06	20
Lead	5.000	48.03	50.00	95.9	48.29	50.00	96.4	88-115	0.538	20
Magnesium	8499	13190	5000	93.8	13310	5000	96.2	83-118	0.900	20
Nickel	4.569	50.24	50.00	91.3	50.52	50.00	91.9	85-117	0.572	20
Potassium	1123	5948	5000	96.5	5971	5000	96.9	87-115	0.382	20
Selenium	5.000	49.35	50.00	98.1	50.66	50.00	101	80-120	2.62	20
Silver	5.000	47.55	50.00	95.0	47.65	50.00	95.2	85-116	0.208	20
Thallium	2.000	41.75	50.00	83.5	42.49	50.00	85.0	82-116	1.76	20
Vanadium	1.125	48.94	50.00	95.6	49.03	50.00	95.8	86-115	0.171	20
Manganese	203.5	239.2	50.00	71.5	237.5	50.00	68.0	87-115	0.730	20
Sodium	180200	179500	5000	-14.1	178000	5000	-43.0	85-117	0.809	20

ALS Houston, US

Date: 12-Jul-24

Form 5A - Matrix Spike/Matrix Spike Duplicate Recovery

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060694

Date Analyzed: 26-Jun-2024 12:20
Date Extracted: 19-Jun-2024 15:00
Units: ug/L

Matrix Spike: HS24060694-01MS
Client Sample ID: MW3_061124

Analysis Method: SW6020A

Analyte	Sample Result	MS Result	Spike Amount	% Rec	MSD Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Aluminum	2.952	117.3	100.0	114	114.3	100.0	111	84-117	2.55	20
Zinc	4.939	118.7	100.0	114	117.5	100.0	113	83-119	1.03	20

ALS Houston, US

Date: 12-Jul-24

Form 5B - Post Digest Sample Recovery

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060694

Date Analyzed: 25-Jun-2024 17:01
Date Extracted: 19-Jun-2024 15:00
Units: ug/L

Lab Sample ID: HS24060694-01PDS
Client Sample ID: MW3_061124

Analysis Method: SW6020A

Analyte	Sample Result	PDS Result	Spike Amount	% Rec	% Rec Limits
Antimony	0	93.99	100	94	80-120
Arsenic	0	94.35	100	94	80-120
Barium	199.4	282.3	100	83	80-120
Beryllium	0	92.6	100	93	80-120
Cadmium	0	92.98	100	93	80-120
Chromium	1.75	92.46	100	91	80-120
Cobalt	0.901	92.98	100	92	80-120
Copper	1.14	92.5	100	91	80-120
Iron	221.7	9522	10000	93	80-120
Lead	0	93.22	100	93	80-120
Magnesium	8499	17230	10000	87	80-120
Nickel	4.569	93.41	100	89	80-120
Potassium	1123	10320	10000	92	80-120
Selenium	0	93.83	100	94	80-120
Silver	0	94.78	100	95	80-120
Thallium	0	93.04	100	93	80-120
Vanadium	1.125	93.18	100	92	80-120
Manganese	203.5	283.8	100	80	80-120
Sodium	180200	180900	10000	7	80-120

ALS Houston, US

Date: 12-Jul-24

Form 5B - Post Digest Sample Recovery

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060694

Date Analyzed: 26-Jun-2024 12:23
Date Extracted: 19-Jun-2024 15:00
Units: ug/L

Lab Sample ID: HS24060694-01PDS
Client Sample ID: MW3_061124

Analysis Method: SW6020A

Analyte	Sample Result	PDS Result	Spike Amount	% Rec	% Rec Limits
Aluminum	2.952	112.9	100	110	80-120
Zinc	4.939	115.9	100	111	80-120

ALS Houston, US Date: 12-Jul-24

Form 7 - Laboratory Control Sample

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060694

Date Analyzed: 24-Jun-2024 14:44
Date Extracted: 24-Jun-2024 09:00
Units: ug/L

Lab Sample ID: LCS-214008 Analysis Method: SW7470A

Analyte	Spike Amount	LCS Result	% Rec	% Rec Limits
Mercury	5	4.94	99	82-119

ALS Houston, US Date: 12-Jul-24

Form 7 - Laboratory Control Sample

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060694

Date Analyzed: 25-Jun-2024 16:49
Date Extracted: 19-Jun-2024 15:00
Units: ug/L

Lab Sample ID: LCS-213798 Analysis Method: SW6020A

Analyte	Spike Amount	LCS Result	% Rec	% Rec Limits
Aluminum	100	105.2	105	84-117
Antimony	50	48.71	97	85-117
Arsenic	50	47.17	94	84-116
Barium	50	46.74	94	86-114
Beryllium	50	46.51	93	83-121
Cadmium	50	46.53	93	87-115
Calcium	5000	4767	95	87-118
Chromium	50	47.17	94	85-116
Cobalt	50	47.62	95	86-115
Copper	50	47.83	96	85-118
Iron	5000	4812	96	87-118
Lead	50	46.43	93	88-115
Magnesium	5000	4807	96	83-118
Manganese	50	49.1	98	87-115
Nickel	50	48.37	97	85-117
Potassium	5000	4747	95	87-115
Selenium	50	47.19	94	80-120
Silver	50	47.93	96	85-116
Sodium	5000	4680	94	85-117
Vanadium	50	46.34	93	86-115
Zinc	50	55.09	110	83-119
Thallium	50	44.52	89	82-116

ALS Houston, US

Date: 12-Jul-24

Form 8 - ICP Serial Dilutions

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060694

Date Analyzed: 25-Jun-2024 16:52
Date Extracted: 19-Jun-2024 15:00
Units: ug/L

Lab Sample ID: HS24060694-01SD
Client Sample ID:MW3_061124

Analysis Method: SW6020A

Analyte	Sample Result	C	SD Result	C	RPD	Q
Antimony	0	U	0	U	0	
Arsenic	0	U	0	U	0	
Barium	199.4		198.4		1	
Beryllium	0	U	0	U	0	
Cadmium	0	U	0	U	0	
Calcium	16200		16250		0	
Chromium	1.75	J	0	U	0	
Cobalt	0.901	J	0.932	J	3	
Copper	1.14	J	0	U	0	
Iron	221.7		228.5	J	3	
Lead	0	U	0	U	0	
Magnesium	8499		8733		3	
Nickel	4.569	J	4.624	J	1	
Potassium	1123		1108		1	
Selenium	0	U	0	U	0	
Silver	0	U	0	U	0	
Thallium	0	U	0	U	0	
Vanadium	1.125	J	0	U	0	
Manganese	203.5		206.4		1	
Sodium	180200		181900		1	

ALS Houston, US

Date: 12-Jul-24

Form 8 - ICP Serial Dilutions

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060694

Date Analyzed: 26-Jun-2024 12:15
Date Extracted: 19-Jun-2024 15:00
Units: ug/L

Lab Sample ID: HS24060694-01SD
Client Sample ID:MW3_061124

Analysis Method: SW6020A

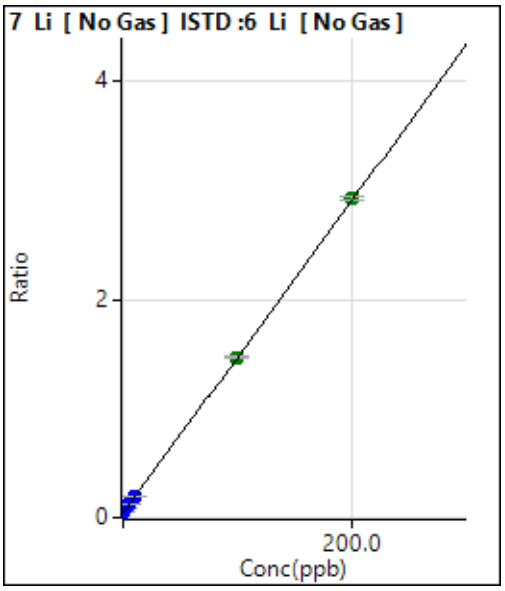
Analyte	Sample Result	C	SD Result	C	RPD	Q
Aluminum	2.952	J	0	U	0	
Zinc	4.939	J	0	U	0	

Calibration for 218_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\062524A.b\
Analysis File: 062524A.batch.bin
DA Date-Time: 6/26/2024 8:26:09 AM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	211CALB.d	CAL BLK	6/25/2024 8:21:55 PM
2	212CALS.d	2/10/200	6/25/2024 8:24:25 PM
3	213CALS.d	5/25/500	6/25/2024 8:26:55 PM
4	214CALS.d	10/50/100	6/25/2024 8:29:25 PM
5	215CALS.d	100/500/10K	6/25/2024 8:31:54 PM
6	216CALS.d	200/1000/20K	6/25/2024 8:34:24 PM

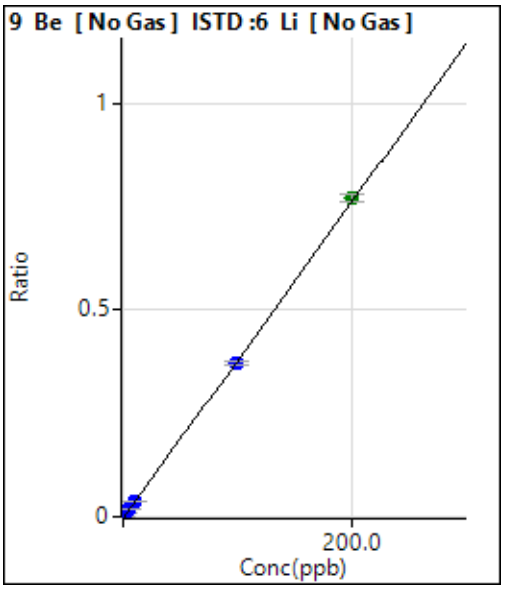
Calibration for 218_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	84075.92	0.0587	P	0.7	
2	☐	2.000	1.931	122682.61	0.0862	P	0.3	-3.5
3	☐	5.000	4.859	180022.05	0.1281	P	0.7	-2.8
4	☐	10.000	9.705	273098.89	0.1973	P	1.4	-3.0
5	☐	100.000	98.714	1898700.80	1.4688	A	1.9	-1.3
6	☐	200.000	200.662	3626143.70	2.9251	A	1.6	0.3

y = 0.0143 * x + 0.0587
R = 1.0000
DL = 0.08043 ppb
BEC = 4.107 ppb

Weight: <None>
Min Conc: <None>

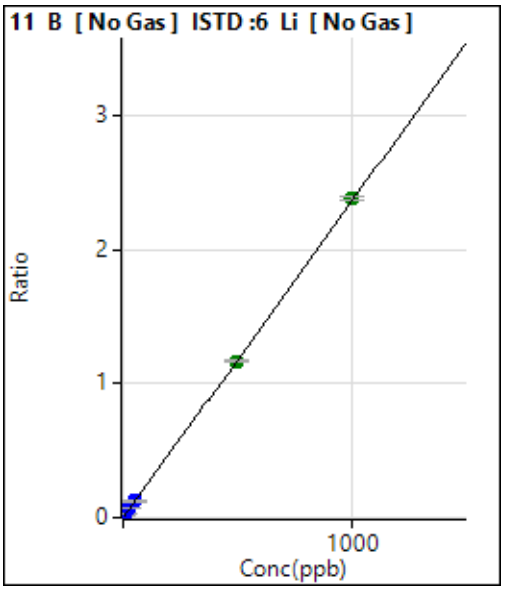


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	216.67	0.0002	P	14.3	
2	☐	2.000	1.859	10337.14	0.0073	P	3.3	-7.0
3	☐	5.000	4.767	25853.50	0.0184	P	0.7	-4.7
4	☐	10.000	9.536	50723.24	0.0366	P	1.8	-4.6
5	☐	100.000	96.834	479238.31	0.3707	P	2.3	-3.2
6	☐	200.000	201.613	956650.56	0.7717	A	2.3	0.8

y = 0.0038 * x + 1.5114E-004
R = 0.9998
DL = 0.01695 ppb
BEC = 0.03949 ppb

Weight: <None>
Min Conc: <None>

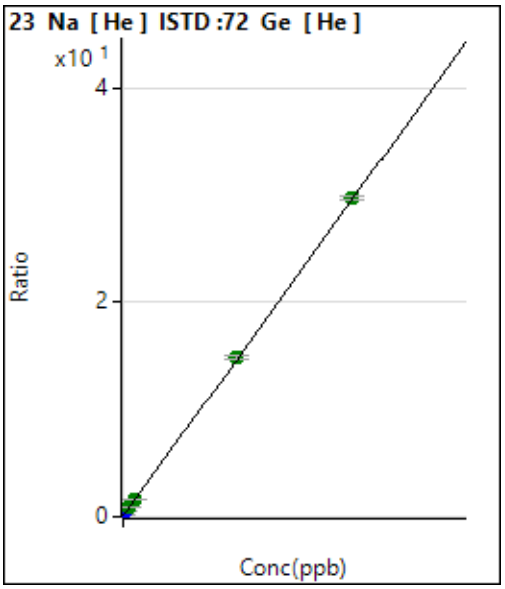
Calibration for 218_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	15015.07	0.0105	P	1.8	
2	☐	10.000	9.482	46721.45	0.0328	P	1.5	-5.2
3	☐	25.000	23.300	91983.59	0.0654	P	0.9	-6.8
4	☐	50.000	47.271	168848.65	0.1220	P	1.9	-5.5
5	☐	500.000	490.205	1508411.28	1.1669	A	1.4	-2.0
6	☐	1000.000	1005.082	2952235.27	2.3815	A	1.5	0.5

y = 0.0024 * x + 0.0105
R = 0.9999
DL = 0.2367 ppb
BEC = 4.441 ppb

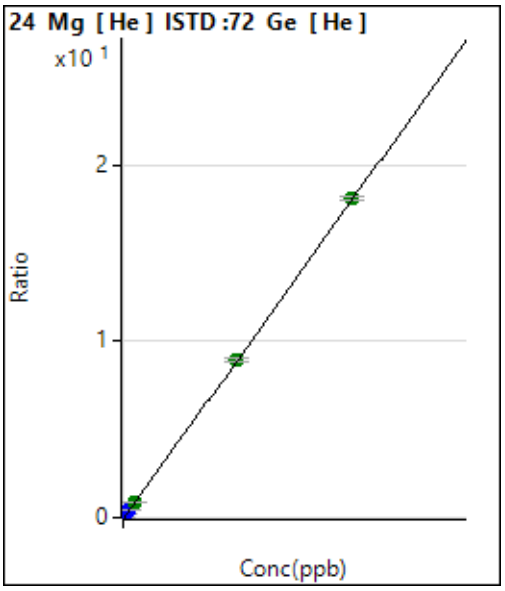
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	246522.24	0.2094	P	0.5	
2	☐	200.000	177.215	556826.78	0.4703	P	1.5	-11.4
3	☐	500.000	468.746	1061610.14	0.8997	A	1.9	-6.3
4	☐	1000.000	979.302	1920986.32	1.6515	A	2.2	-2.1
5	☐	10000.00	9928.841	16887564.33	14.8311	A	2.6	-0.7
6	☐	20000.00	20037.62	32998102.01	29.7179	A	0.6	0.2

y = 0.0015 * x + 0.2094
R = 1.0000
DL = 1.963 ppb
BEC = 142.2 ppb

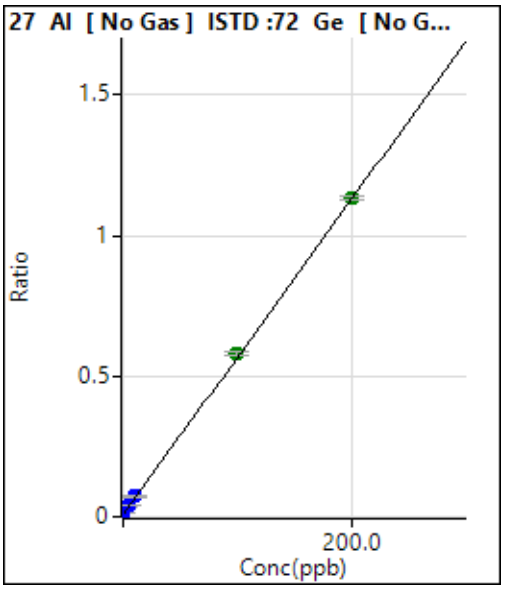
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1023.39	0.0009	P	13.8	
2	☐	200.000	190.730	205362.23	0.1735	P	1.1	-4.6
3	☐	500.000	478.958	512473.70	0.4343	P	2.0	-4.2
4	☐	1000.000	997.121	1050512.09	0.9032	A	2.5	-0.3
5	☐	10000.00	9944.357	10247370.68	8.9994	A	2.3	-0.6
6	☐	20000.00	20028.58	20125391.79	18.1246	A	0.9	0.1

y = 9.0489E-004 * x + 8.6956E-004
R = 1.0000
DL = 0.3972 ppb
BEC = 0.961 ppb

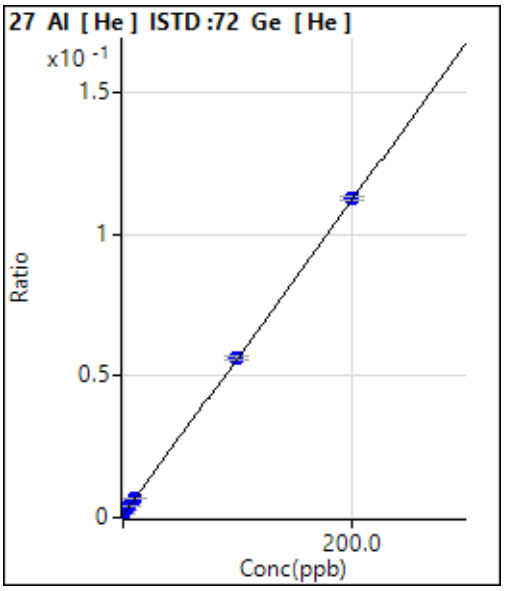
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	55318.96	0.0135	P	1.8	
2	☐	2.000	3.183	129067.56	0.0314	P	1.6	59.1
3	☐	5.000	5.171	174084.36	0.0425	P	2.9	3.4
4	☐	10.000	10.458	292011.10	0.0722	P	1.5	4.6
5	☐	100.000	100.581	2240726.01	0.5778	A	2.3	0.6
6	☐	200.000	199.670	4346690.14	1.1337	A	0.9	-0.2

y = 0.0056 * x + 0.0135
R = 1.0000
DL = 0.131 ppb
BEC = 2.405 ppb

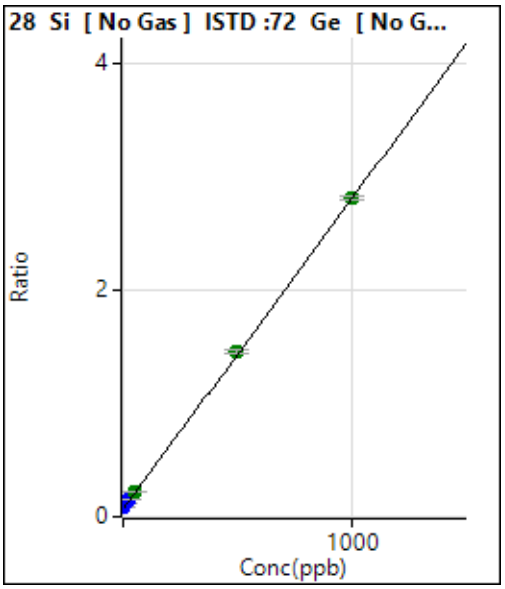
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1700.13	0.0014	P	6.8	
2	☐	2.000	2.668	3463.82	0.0029	P	1.0	33.4
3	☐	5.000	5.013	4990.97	0.0042	P	3.5	0.3
4	☐	10.000	10.037	8162.51	0.0070	P	2.8	0.4
5	☐	100.000	99.145	64330.56	0.0565	P	2.0	-0.9
6	☐	200.000	200.418	125172.48	0.1127	P	1.0	0.2

y = 5.5526E-004 * x + 0.0014
R = 1.0000
DL = 0.5323 ppb
BEC = 2.601 ppb

Weight: <None>
Min Conc: <None>

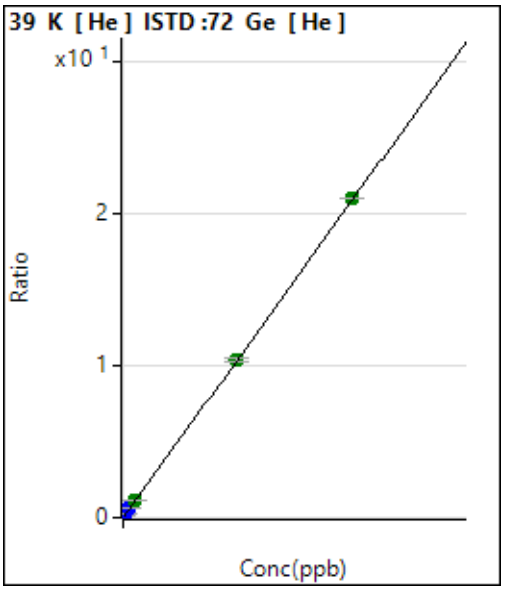


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	332308.51	0.0811	P	0.2	
2	☐	10.000	11.804	466731.36	0.1134	P	1.0	18.0
3	☐	25.000	27.593	641330.07	0.1566	P	0.7	10.4
4	☐	50.000	51.276	895774.07	0.2214	A	1.6	2.6
5	☐	500.000	503.803	5660879.29	1.4598	A	2.7	0.8
6	☐	1000.000	997.952	10781099.42	2.8120	A	1.0	-0.2

y = 0.0027 * x + 0.0811
R = 1.0000
DL = 0.193 ppb
BEC = 29.62 ppb

Weight: <None>
Min Conc: <None>

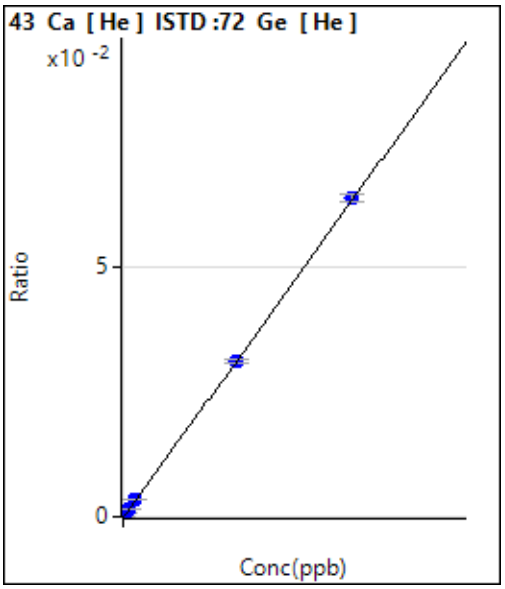
Calibration for 218_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	116935.82	0.0993	P	0.5	
2	☐	200.000	189.748	351277.07	0.2967	P	1.7	-5.1
3	☐	500.000	480.170	706757.41	0.5989	P	1.2	-4.0
4	☐	1000.000	993.223	1317504.72	1.1327	A	2.1	-0.7
5	☐	10000.00	9867.896	11804115.24	10.3664	A	2.1	-1.3
6	☐	20000.00	20066.98	23293283.82	20.9781	A	0.4	0.3

y = 0.0010 * x + 0.0993
R = 1.0000
DL = 1.34 ppb
BEC = 95.45 ppb

Weight: <None>
Min Conc: <None>

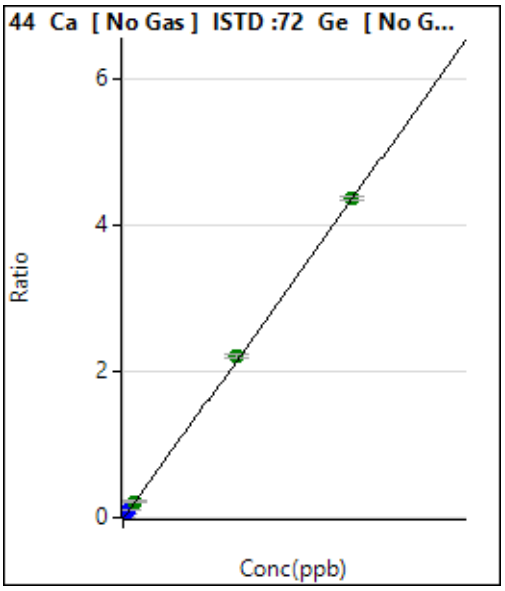


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	56.67	0.0000	P	10.4	
2	☐	200.000	206.424	833.37	0.0007	P	6.8	3.2
3	☐	500.000	476.099	1843.51	0.0016	P	6.6	-4.8
4	☐	1000.000	1070.146	4010.65	0.0034	P	5.2	7.0
5	☐	10000.00	9820.201	35595.90	0.0313	P	2.8	-1.8
6	☐	20000.00	20086.92	70940.30	0.0639	P	1.8	0.4

y = 3.1782E-006 * x + 4.8134E-005
R = 0.9999
DL = 4.741 ppb
BEC = 15.14 ppb

Weight: <None>
Min Conc: <None>

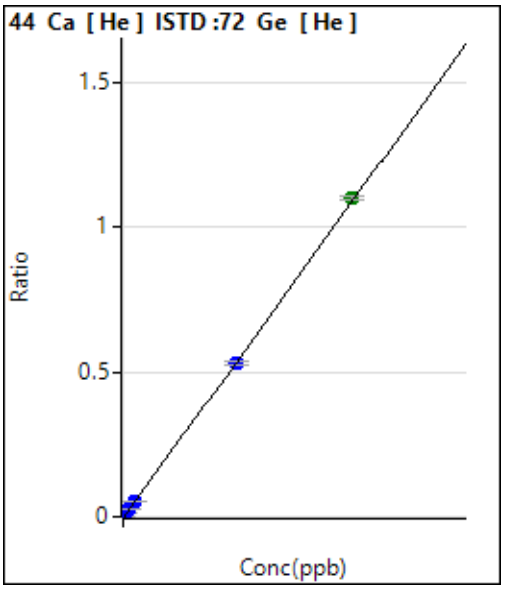
Calibration for 218_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	18676.19	0.0046	P	0.6	
2	☐	200.000	210.423	208174.26	0.0506	P	2.1	5.2
3	☐	500.000	501.435	467758.65	0.1142	P	1.6	0.3
4	☐	1000.000	996.489	900106.37	0.2225	A	1.7	-0.4
5	☐	10000.00	10043.83	8534890.08	2.2009	A	2.5	0.4
6	☐	20000.00	19978.11	16766485.17	4.3732	A	0.9	-0.1

y = 2.1867E-004 * x + 0.0046
R = 1.0000
DL = 0.3469 ppb
BEC = 20.84 ppb

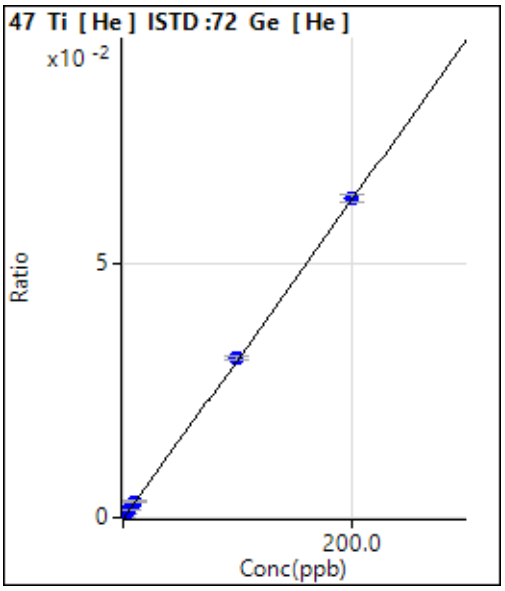
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	736.70	0.0006	P	12.9	
2	☐	200.000	193.391	13243.12	0.0112	P	0.7	-3.3
3	☐	500.000	477.192	31486.01	0.0267	P	1.5	-4.6
4	☐	1000.000	983.759	63210.00	0.0543	P	1.3	-1.6
5	☐	10000.00	9676.944	602399.91	0.5290	P	2.3	-3.2
6	☐	20000.00	20162.97	1223248.71	1.1016	A	1.1	0.8

y = 5.4605E-005 * x + 6.2601E-004
R = 0.9998
DL = 4.436 ppb
BEC = 11.46 ppb

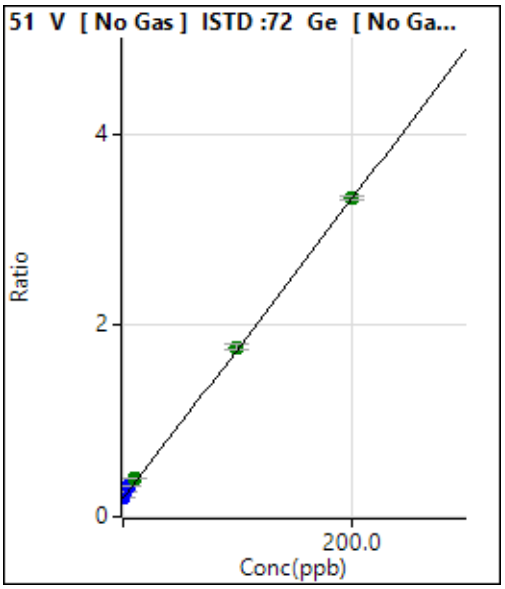
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	13.33	0.0000	P	86.6	
2	☐	2.000	1.999	756.70	0.0006	P	12.6	0.0
3	☐	5.000	4.985	1860.16	0.0016	P	2.8	-0.3
4	☐	10.000	10.035	3673.88	0.0032	P	12.3	0.3
5	☐	100.000	99.730	35649.18	0.0313	P	2.6	-0.3
6	☐	200.000	200.134	69751.44	0.0628	P	2.0	0.1

y = 3.1381E-004 * x + 1.1279E-005
R = 1.0000
DL = 0.09338 ppb
BEC = 0.03594 ppb

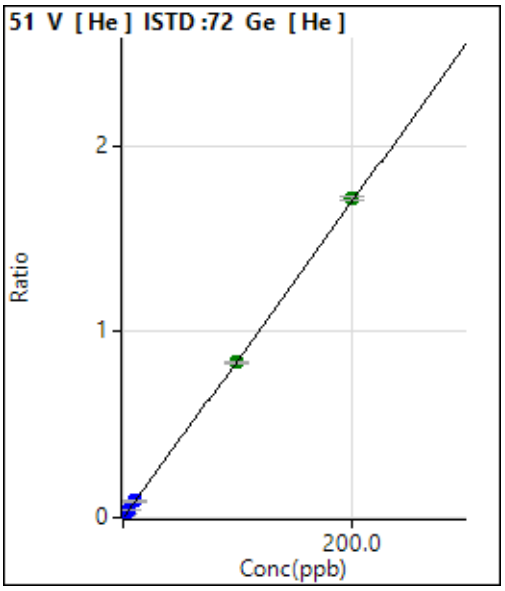
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	845280.58	0.2062	P	3.2	
2	☐	2.000	3.177	1053915.24	0.2560	P	0.6	58.9
3	☐	5.000	7.077	1298931.12	0.3171	P	1.2	41.5
4	☐	10.000	12.926	1654252.48	0.4088	A	0.2	29.3
5	☐	100.000	100.261	6895476.17	1.7781	A	2.5	0.3
6	☐	200.000	199.660	12791592.73	3.3365	A	1.3	-0.2

y = 0.0157 * x + 0.2062
R = 0.9999
DL = 1.28 ppb
BEC = 13.15 ppb

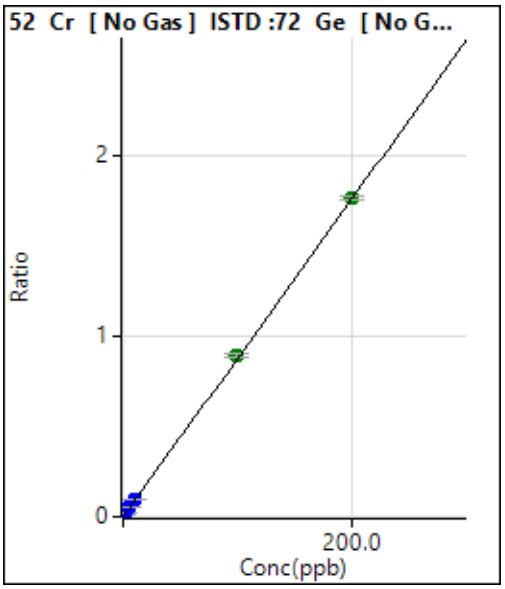
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6242.54	0.0053	P	2.7	
2	☐	2.000	1.895	25369.84	0.0214	P	2.4	-5.3
3	☐	5.000	4.794	54399.52	0.0461	P	2.0	-4.1
4	☐	10.000	9.792	103095.70	0.0886	P	2.0	-2.1
5	☐	100.000	97.338	949375.41	0.8337	A	1.9	-2.7
6	☐	200.000	201.348	1908762.42	1.7190	A	1.2	0.7

y = 0.0085 * x + 0.0053
R = 0.9999
DL = 0.05061 ppb
BEC = 0.623 ppb

Weight: <None>
Min Conc: <None>

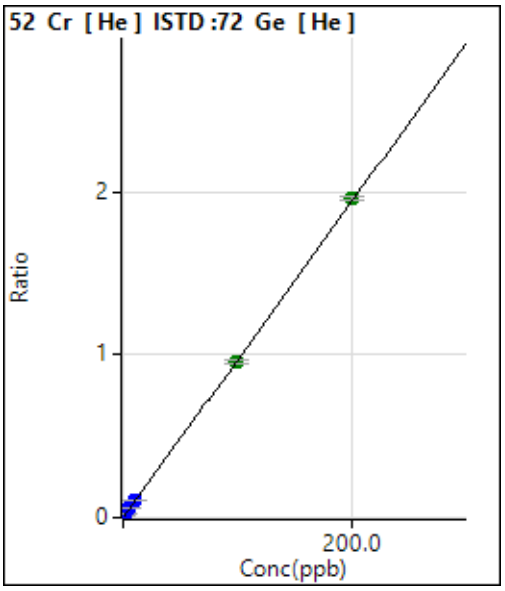


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	33624.36	0.0082	P	3.3	
2	☐	2.000	2.042	107555.56	0.0261	P	1.4	2.1
3	☐	5.000	5.164	219274.43	0.0535	P	2.0	3.3
4	☐	10.000	10.159	394049.59	0.0974	P	1.3	1.6
5	☐	100.000	100.345	3448218.39	0.8892	A	2.2	0.3
6	☐	200.000	199.815	6756917.40	1.7624	A	1.4	-0.1

y = 0.0088 * x + 0.0082
R = 1.0000
DL = 0.09152 ppb
BEC = 0.9342 ppb

Weight: <None>
Min Conc: <None>

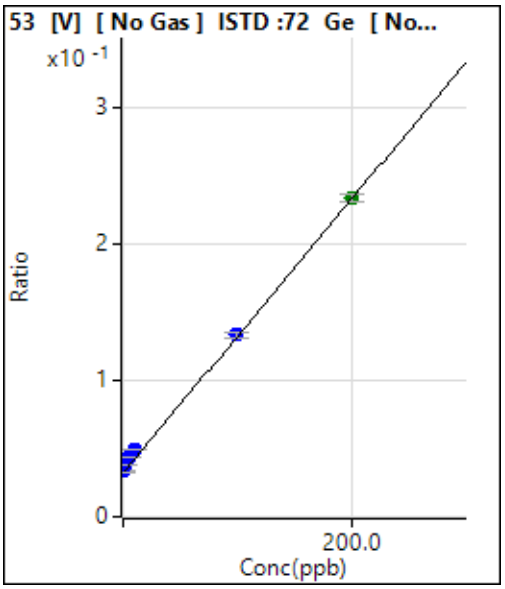
Calibration for 218_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	12155.51	0.0103	P	2.3	
2	☐	2.000	1.877	33771.53	0.0285	P	1.2	-6.2
3	☐	5.000	4.816	67289.88	0.0570	P	3.2	-3.7
4	☐	10.000	9.900	123692.24	0.1064	P	2.4	-1.0
5	☐	100.000	97.672	1090534.12	0.9577	A	2.0	-2.3
6	☐	200.000	201.175	2178279.24	1.9617	A	1.6	0.6

y = 0.0097 * x + 0.0103
R = 0.9999
DL = 0.07385 ppb
BEC = 1.064 ppb

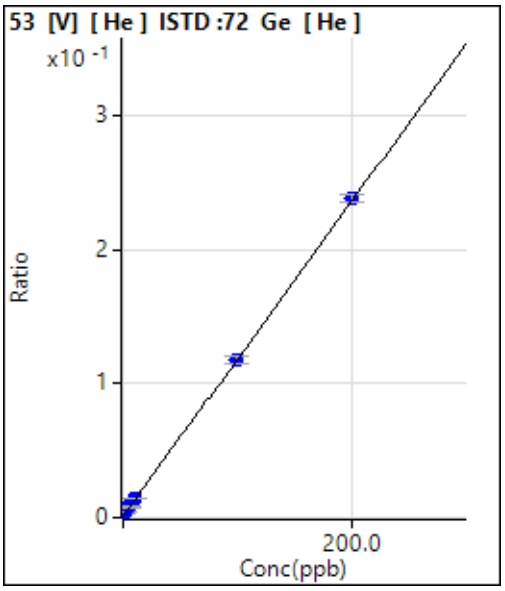
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	137235.88	0.0335	P	3.4	
2	☐	2.000	4.862	157899.77	0.0384	P	0.8	143.1
3	☐	5.000	9.956	178035.79	0.0435	P	1.4	99.1
4	☐	10.000	15.962	200268.18	0.0495	P	0.3	59.6
5	☐	100.000	99.725	517971.37	0.1336	P	2.8	-0.3
6	☐	200.000	199.687	896711.89	0.2339	A	2.1	-0.2

y = 0.0010 * x + 0.0335
R = 0.9996
DL = 3.37 ppb
BEC = 33.35 ppb

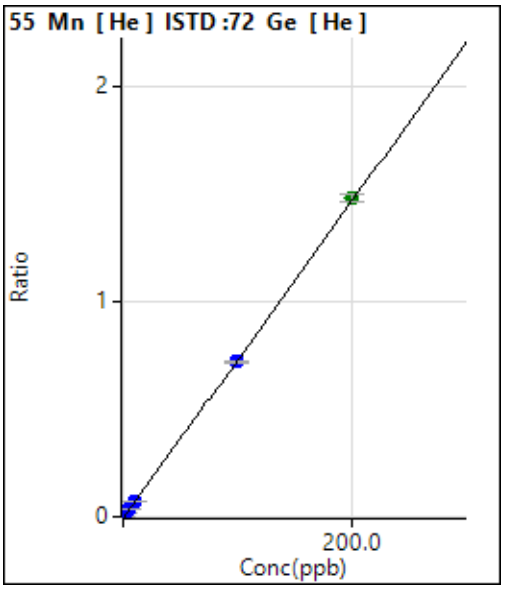
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2870.36	0.0024	P	10.7	
2	☐	2.000	1.972	5624.56	0.0048	P	5.0	-1.4
3	☐	5.000	4.713	9400.03	0.0080	P	7.7	-5.7
4	☐	10.000	9.989	16480.06	0.0142	P	0.9	-0.1
5	☐	100.000	98.088	133910.12	0.1176	P	4.0	-1.9
6	☐	200.000	200.964	264743.79	0.2384	P	1.9	0.5

y = 0.0012 * x + 0.0024
R = 0.9999
DL = 0.6662 ppb
BEC = 2.077 ppb

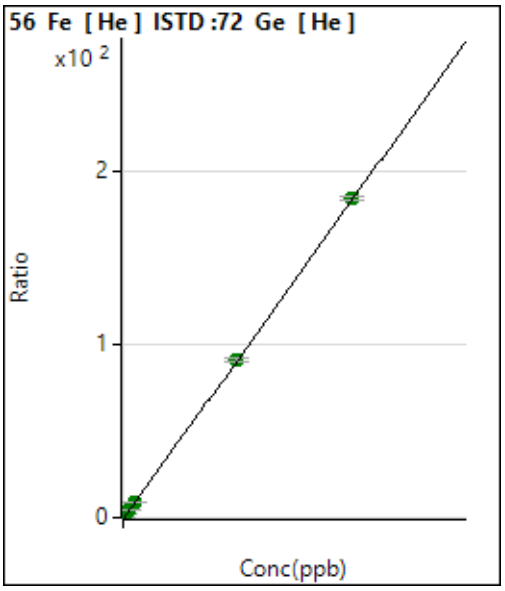
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	570.02	0.0005	P	11.1	
2	☐	2.000	1.916	17304.38	0.0146	P	2.2	-4.2
3	☐	5.000	4.783	42208.12	0.0358	P	3.5	-4.3
4	☐	10.000	9.867	85211.79	0.0733	P	2.9	-1.3
5	☐	100.000	97.664	820889.96	0.7209	P	2.1	-2.3
6	☐	200.000	201.181	1648454.09	1.4845	A	1.8	0.6

y = 0.0074 * x + 4.8393E-004
R = 0.9999
DL = 0.02178 ppb
BEC = 0.0656 ppb

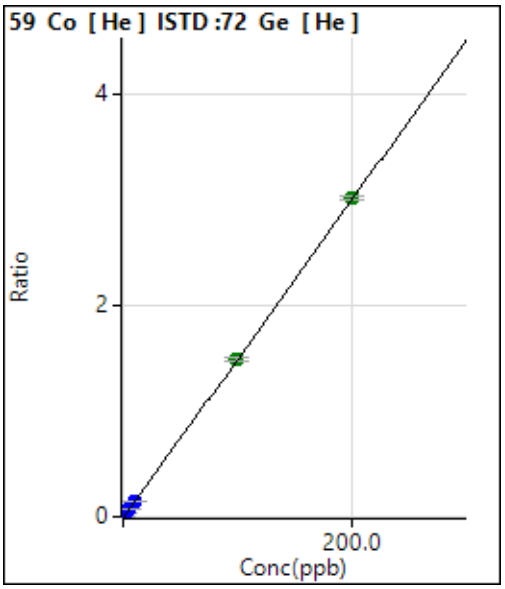
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	18299.20	0.0155	P	2.8	
2	☐	200.000	192.844	2116630.39	1.7878	A	1.2	-3.6
3	☐	500.000	485.074	5279025.03	4.4735	A	1.8	-3.0
4	☐	1000.000	994.661	10650626.92	9.1566	A	1.7	-0.5
5	☐	10000.00	9920.174	103828568.4	91.1837	A	2.3	-0.8
6	☐	20000.00	20040.62	204529543.6	184.192	A	1.3	0.2

y = 0.0092 * x + 0.0155
R = 1.0000
DL = 0.1424 ppb
BEC = 1.691 ppb

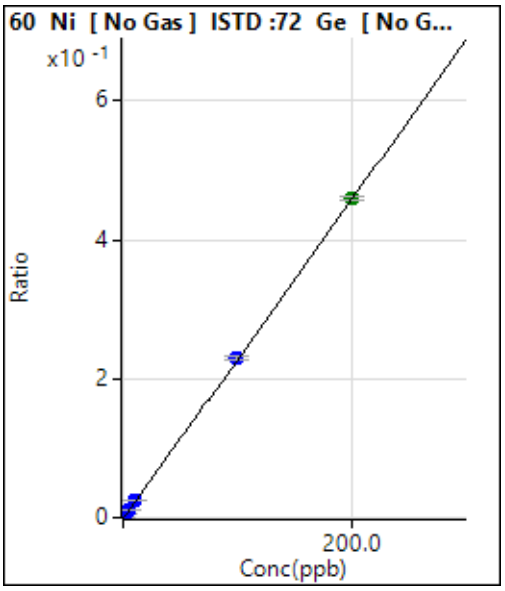
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	650.03	0.0006	P	14.8	
2	☐	2.000	1.894	34463.48	0.0291	P	0.9	-5.3
3	☐	5.000	4.963	88959.04	0.0754	P	2.9	-0.7
4	☐	10.000	9.944	175054.83	0.1505	P	1.6	-0.6
5	☐	100.000	99.239	1704610.91	1.4970	A	2.6	-0.8
6	☐	200.000	200.385	3355907.55	3.0222	A	1.5	0.2

y = 0.0151 * x + 5.5189E-004
R = 1.0000
DL = 0.01627 ppb
BEC = 0.0366 ppb

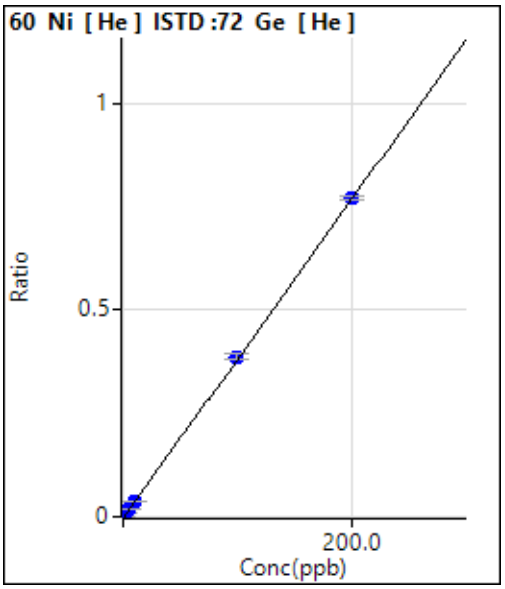
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1486.78	0.0004	P	3.2	
2	☐	2.000	2.050	20896.21	0.0051	P	5.7	2.5
3	☐	5.000	5.136	49860.20	0.0122	P	2.3	2.7
4	☐	10.000	10.239	96737.59	0.0239	P	0.3	2.4
5	☐	100.000	100.334	896167.85	0.2311	P	2.2	0.3
6	☐	200.000	199.817	1763000.29	0.4599	A	1.5	-0.1

y = 0.0023 * x + 3.6277E-004
R = 1.0000
DL = 0.01528 ppb
BEC = 0.1578 ppb

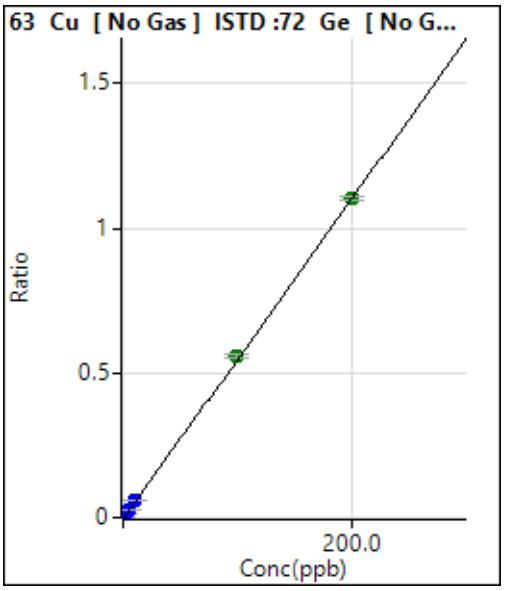
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	336.68	0.0003	P	6.9	
2	☐	2.000	1.950	9233.30	0.0078	P	1.8	-2.5
3	☐	5.000	5.048	23280.00	0.0197	P	3.0	1.0
4	☐	10.000	10.133	45733.01	0.0393	P	0.6	1.3
5	☐	100.000	100.173	439681.75	0.3861	P	3.2	0.2
6	☐	200.000	199.906	855346.16	0.7703	P	1.2	0.0

y = 0.0039 * x + 2.8601E-004
R = 1.0000
DL = 0.01536 ppb
BEC = 0.07425 ppb

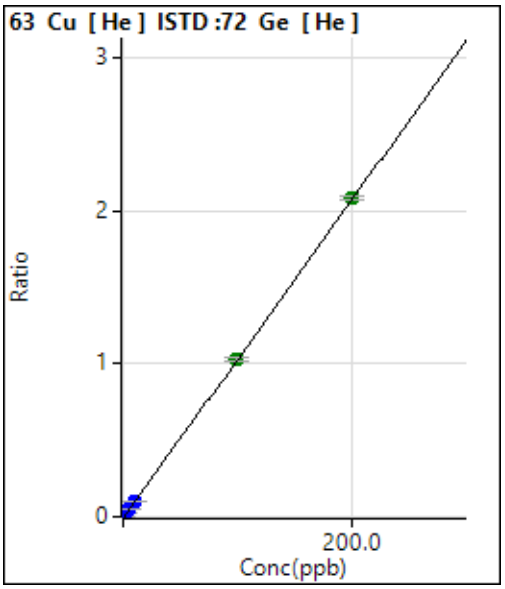
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1923.51	0.0005	P	4.6	
2	☐	2.000	2.115	50077.92	0.0122	P	1.8	5.7
3	☐	5.000	5.165	118910.60	0.0290	P	1.9	3.3
4	☐	10.000	10.437	235447.52	0.0582	P	0.6	4.4
5	☐	100.000	100.938	2166606.01	0.5587	A	1.8	0.9
6	☐	200.000	199.504	4231617.02	1.1037	A	1.5	-0.2

y = 0.0055 * x + 4.6936E-004
R = 1.0000
DL = 0.01178 ppb
BEC = 0.08487 ppb

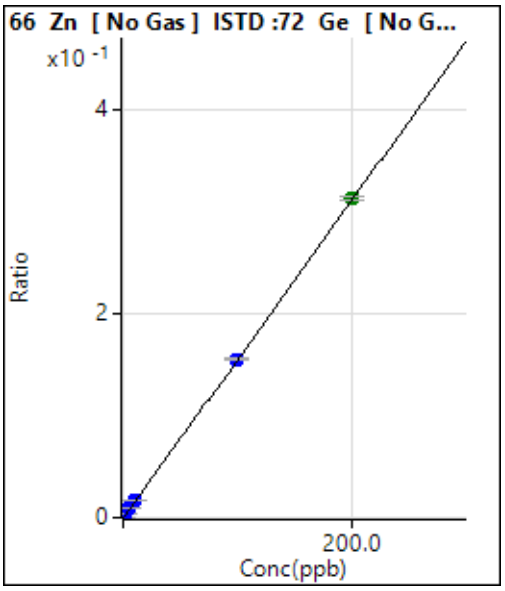
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	843.37	0.0007	P	3.1	
2	☐	2.000	1.943	24775.89	0.0209	P	0.9	-2.8
3	☐	5.000	4.891	60871.55	0.0516	P	2.3	-2.2
4	☐	10.000	10.000	121805.49	0.1047	P	1.6	0.0
5	☐	100.000	99.335	1177091.47	1.0338	A	2.8	-0.7
6	☐	200.000	200.336	2314158.40	2.0841	A	0.9	0.2

y = 0.0104 * x + 7.1626E-004
R = 1.0000
DL = 0.006386 ppb
BEC = 0.06887 ppb

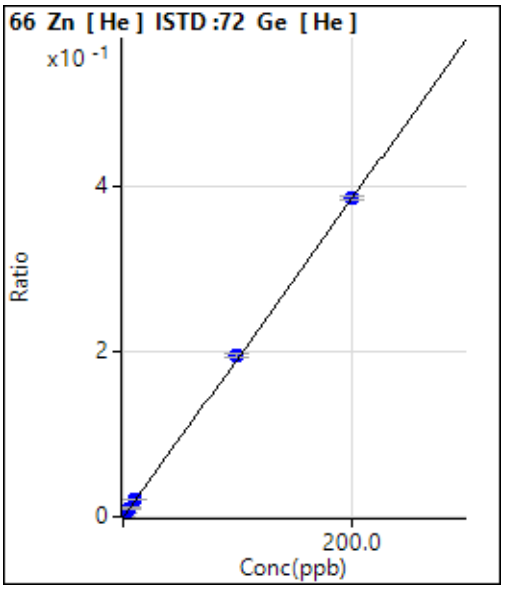
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3040.38	0.0007	P	2.4	
2	☐	2.000	2.388	18409.32	0.0045	P	1.4	19.4
3	☐	5.000	5.169	36111.22	0.0088	P	0.8	3.4
4	☐	10.000	10.015	66299.77	0.0164	P	2.5	0.2
5	☐	100.000	99.235	604032.56	0.1558	P	1.8	-0.8
6	☐	200.000	200.373	1202846.96	0.3137	A	1.5	0.2

y = 0.0016 * x + 7.4167E-004
R = 1.0000
DL = 0.03428 ppb
BEC = 0.4748 ppb

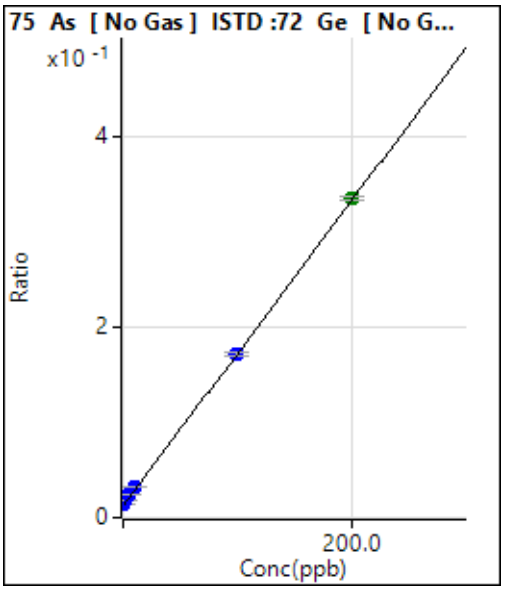
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1160.07	0.0010	P	4.0	
2	☐	2.000	2.396	6645.07	0.0056	P	5.2	19.8
3	☐	5.000	4.916	12369.09	0.0105	P	1.4	-1.7
4	☐	10.000	10.195	24051.38	0.0207	P	2.3	1.9
5	☐	100.000	100.670	222537.52	0.1954	P	1.8	0.7
6	☐	200.000	199.654	429295.78	0.3866	P	0.7	-0.2

y = 0.0019 * x + 9.8522E-004
R = 1.0000
DL = 0.06098 ppb
BEC = 0.5101 ppb

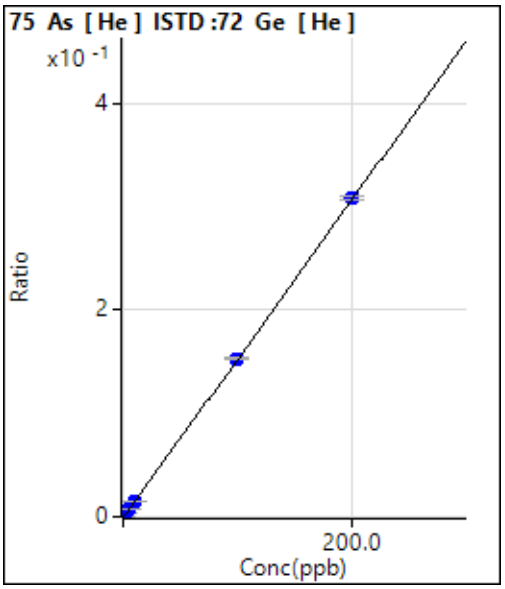
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	57748.96	0.0141	P	1.7	
2	☐	2.000	2.889	77077.08	0.0187	P	2.0	44.5
3	☐	5.000	6.260	98812.46	0.0241	P	0.7	25.2
4	☐	10.000	11.511	131676.97	0.0325	P	1.8	15.1
5	☐	100.000	98.892	669531.35	0.1726	P	2.4	-1.1
6	☐	200.000	200.438	1286103.57	0.3355	A	1.7	0.2

y = 0.0016 * x + 0.0141
R = 0.9999
DL = 0.4556 ppb
BEC = 8.786 ppb

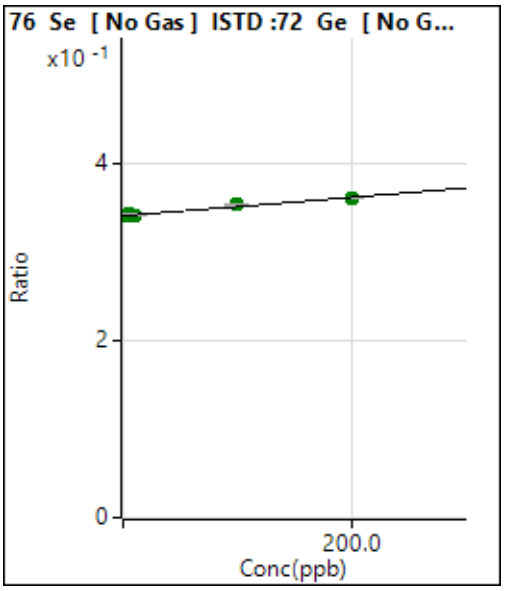
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	384.45	0.0003	P	8.6	
2	☐	2.000	1.903	3849.45	0.0033	P	1.8	-4.9
3	☐	5.000	4.990	9439.98	0.0080	P	1.2	-0.2
4	☐	10.000	9.800	17906.18	0.0154	P	2.2	-2.0
5	☐	100.000	99.215	174069.08	0.1529	P	1.8	-0.8
6	☐	200.000	200.404	342487.31	0.3084	P	0.7	0.2

y = 0.0015 * x + 3.2639E-004
R = 1.0000
DL = 0.05504 ppb
BEC = 0.2123 ppb

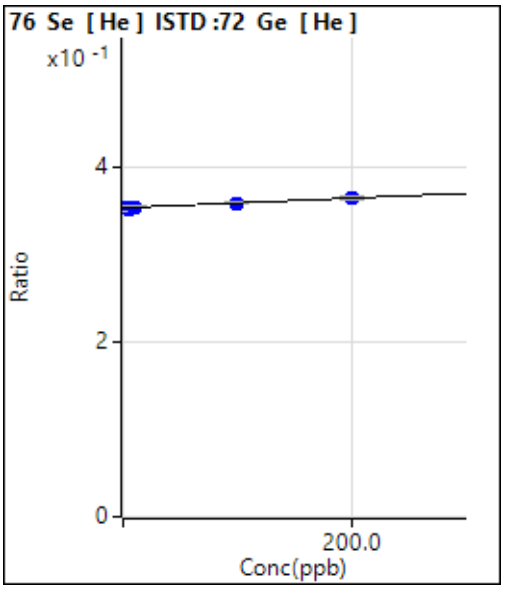
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1394924.09	0.3403	A	0.4	
2	☐	2.000	11.483	1406012.27	0.3415	A	0.6	474.2
3	☐	5.000	17.815	1401568.31	0.3422	A	0.4	256.3
4	☐	10.000	11.262	1381775.81	0.3415	A	0.4	12.6
5	☐	100.000	122.450	1369788.31	0.3532	A	0.5	22.4
6	☐	200.000	188.297	1380678.10	0.3601	A	0.3	-5.9

y = 1.0523E-004 * x + 0.3403
R = 0.9901
DL = 35.26 ppb
BEC = 3234 ppb

Weight: <None>
Min Conc: <None>

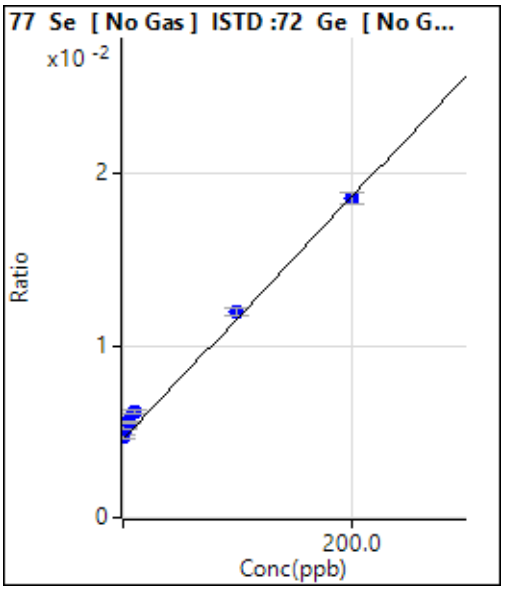


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	415837.52	0.3532	P	1.9	
2	☐	2.000	5.576	418439.47	0.3535	P	0.7	178.8
3	☐	5.000	-42.936	413916.10	0.3508	P	1.1	-958.7
4	☐	10.000	17.797	411977.18	0.3542	P	0.9	78.0
5	☐	100.000	99.665	408551.40	0.3588	P	0.7	-0.3
6	☐	200.000	200.940	404654.04	0.3644	P	0.8	0.5

y = 5.6107E-005 * x + 0.3532
R = 0.9736
DL = 359.6 ppb
BEC = 6295 ppb

Weight: <None>
Min Conc: <None>

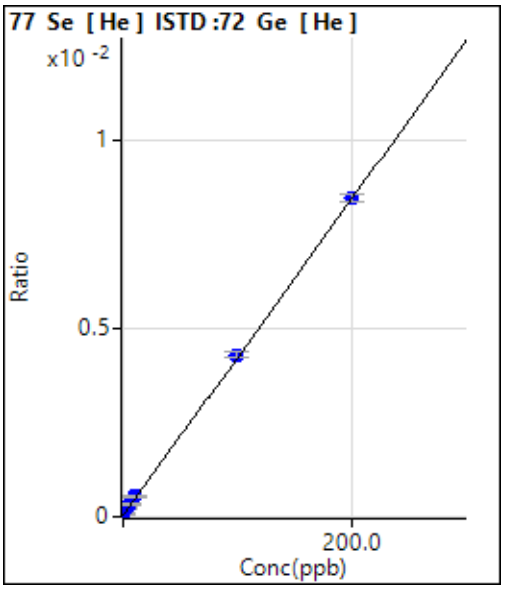
Calibration for 218_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	19157.18	0.0047	P	4.3	
2	☐	2.000	7.500	21410.47	0.0052	P	1.3	275.0
3	☐	5.000	12.322	22692.50	0.0055	P	2.2	146.4
4	☐	10.000	20.557	24759.52	0.0061	P	4.0	105.6
5	☐	100.000	103.342	46328.95	0.0119	P	3.3	3.3
6	☐	200.000	197.563	71229.20	0.0186	P	3.2	-1.2

y = 7.0384E-005 * x + 0.0047
R = 0.9990
DL = 8.612 ppb
BEC = 66.39 ppb

Weight: <None>
Min Conc: <None>

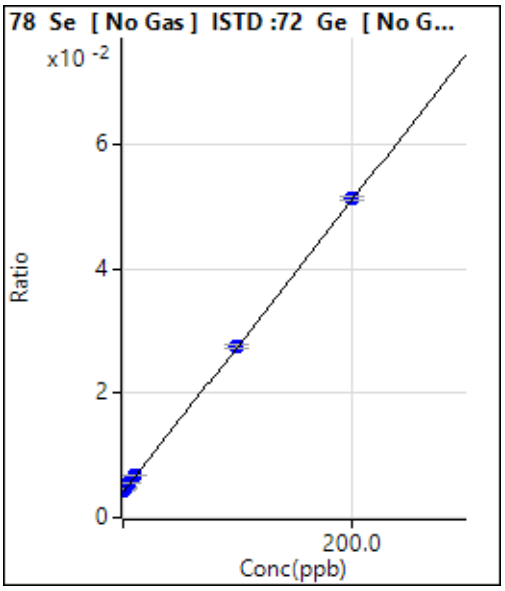


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	90.00	0.0001	P	39.9	
2	☐	2.000	3.545	266.68	0.0002	P	21.7	77.3
3	☐	5.000	5.708	373.35	0.0003	P	15.5	14.2
4	☐	10.000	11.287	640.03	0.0006	P	8.9	12.9
5	☐	100.000	100.505	4894.31	0.0043	P	3.8	0.5
6	☐	200.000	199.650	9396.77	0.0085	P	2.0	-0.2

y = 4.2009E-005 * x + 7.6425E-005
R = 1.0000
DL = 2.177 ppb
BEC = 1.819 ppb

Weight: <None>
Min Conc: <None>

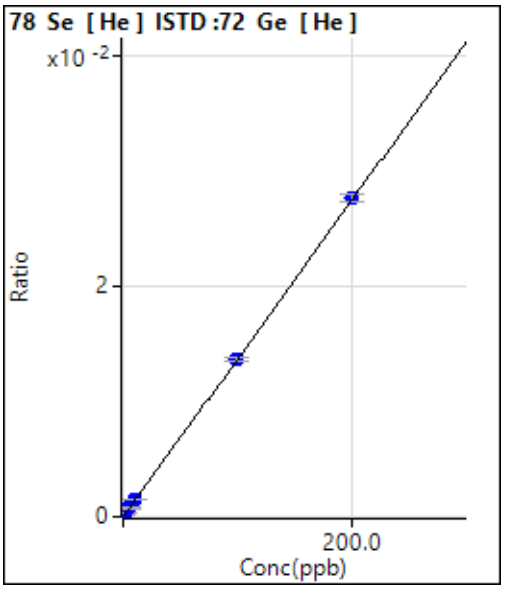
Calibration for 218_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	17875.30	0.0044	P	1.8	
2	☐	2.000	1.741	19631.10	0.0048	P	1.8	-12.9
3	☐	5.000	4.799	22468.77	0.0055	P	0.9	-4.0
4	☐	10.000	10.086	27210.80	0.0067	P	0.6	0.9
5	☐	100.000	99.078	106987.36	0.0276	P	2.4	-0.9
6	☐	200.000	200.464	196896.55	0.0514	P	1.2	0.2

y = 2.3444E-004 * x + 0.0044
R = 1.0000
DL = 1.015 ppb
BEC = 18.6 ppb

Weight: <None>
Min Conc: <None>

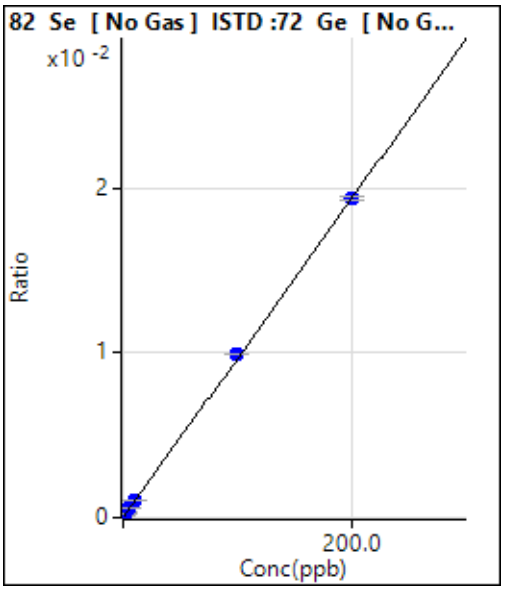


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	140.00	0.0001	P	3.0	
2	☐	2.000	1.967	461.34	0.0004	P	6.9	-1.6
3	☐	5.000	4.745	910.03	0.0008	P	6.0	-5.1
4	☐	10.000	9.951	1730.78	0.0015	P	3.7	-0.5
5	☐	100.000	98.745	15602.27	0.0137	P	2.4	-1.3
6	☐	200.000	200.637	30777.30	0.0277	P	2.2	0.3

y = 1.3756E-004 * x + 1.1890E-004
R = 1.0000
DL = 0.0789 ppb
BEC = 0.8644 ppb

Weight: <None>
Min Conc: <None>

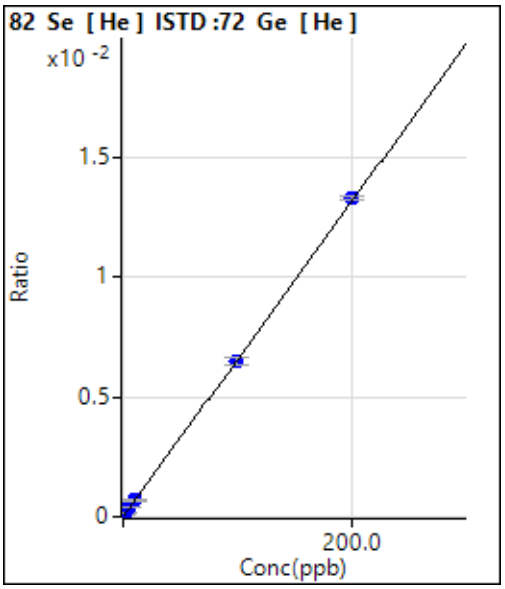
Calibration for 218_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	426.68	0.0001	P	5.1	
2	☐	2.000	1.873	1173.40	0.0003	P	13.4	-6.4
3	☐	5.000	5.311	2530.28	0.0006	P	0.9	6.2
4	☐	10.000	10.100	4374.11	0.0011	P	3.0	1.0
5	☐	100.000	101.619	38521.55	0.0099	P	0.2	1.6
6	☐	200.000	199.179	74255.89	0.0194	P	0.8	-0.4

y = 9.6719E-005 * x + 1.0410E-004
R = 1.0000
DL = 0.1647 ppb
BEC = 1.076 ppb

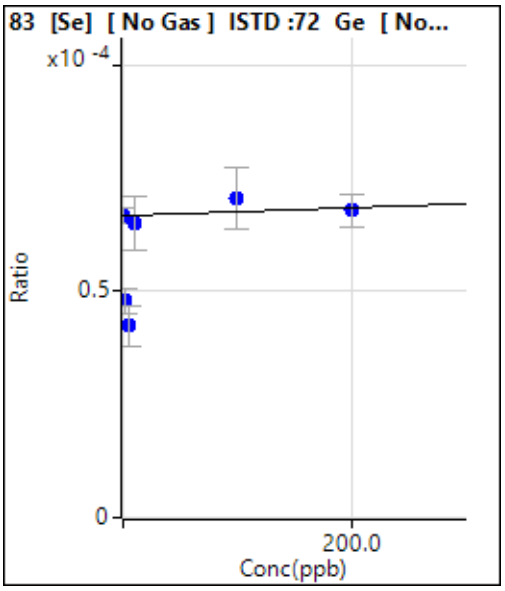
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	80.00	0.0001	P	37.1	
2	☐	2.000	1.234	176.67	0.0001	P	10.3	-38.3
3	☐	5.000	5.282	490.02	0.0004	P	9.9	5.6
4	☐	10.000	9.848	833.37	0.0007	P	10.6	-1.5
5	☐	100.000	97.429	7378.80	0.0065	P	5.2	-2.6
6	☐	200.000	201.294	14784.92	0.0133	P	1.5	0.6

y = 6.5812E-005 * x + 6.7852E-005
R = 0.9999
DL = 1.148 ppb
BEC = 1.031 ppb

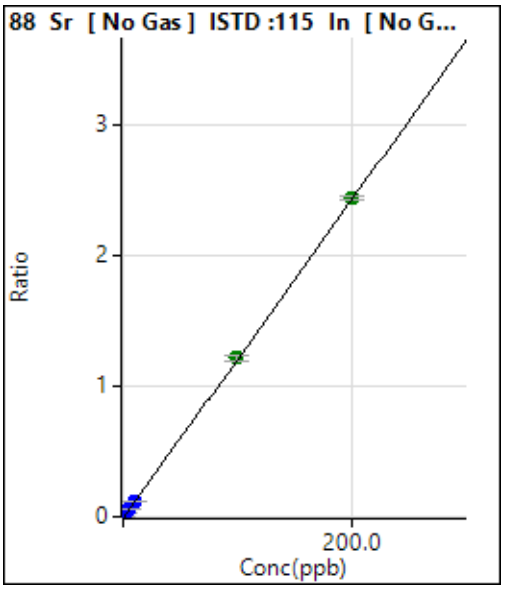
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	273.34	0.0001	P	4.8	
2	☐	2.000	-2125.11	196.67	0.0000	P	11.5	-106356.
3	☐	5.000	-2745.31	173.34	0.0000	P	21.6	-55006.2
4	☐	10.000	-176.403	263.34	0.0001	P	18.2	-1864.0
5	☐	100.000	433.320	273.34	0.0001	P	18.8	333.3
6	☐	200.000	132.689	260.01	0.0001	P	10.7	-33.7

y = 8.8770E-009 * x + 6.6668E-005
R = 0.5250
DL = 1083 ppb
BEC = 7510 ppb

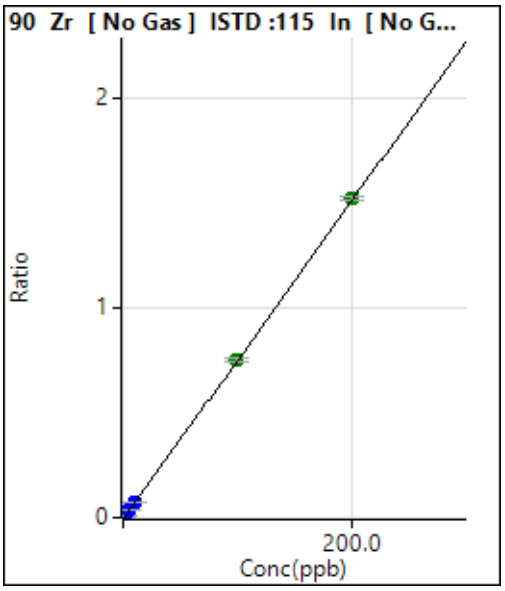
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3467.18	0.0006	P	8.1	
2	☐	2.000	1.989	134213.36	0.0248	P	1.5	-0.6
3	☐	5.000	4.841	323450.76	0.0596	P	1.4	-3.2
4	☐	10.000	9.592	634164.55	0.1174	P	1.7	-4.1
5	☐	100.000	99.563	6249461.99	1.2123	A	3.1	-0.4
6	☐	200.000	200.243	12414274.82	2.4376	A	1.0	0.1

y = 0.0122 * x + 6.3423E-004
R = 1.0000
DL = 0.01262 ppb
BEC = 0.05211 ppb

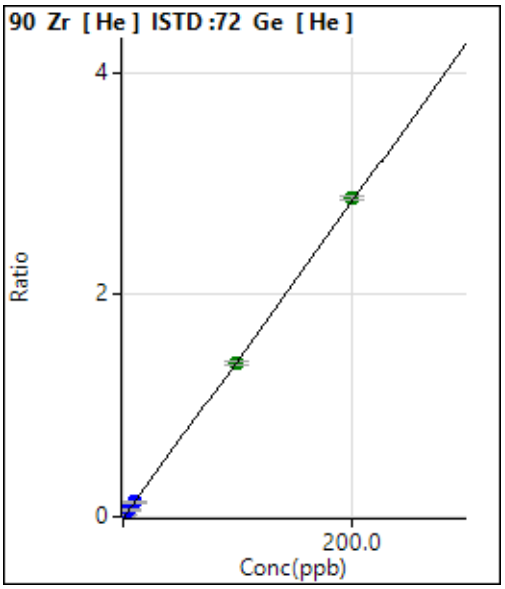
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1356.76	0.0002	P	12.9	
2	☐	2.000	1.645	68898.79	0.0127	P	1.9	-17.8
3	☐	5.000	4.362	181428.50	0.0334	P	0.6	-12.8
4	☐	10.000	9.175	378157.39	0.0700	P	1.4	-8.3
5	☐	100.000	98.724	3869658.69	0.7507	A	2.9	-1.3
6	☐	200.000	200.699	7770539.05	1.5258	A	1.1	0.3

y = 0.0076 * x + 2.4823E-004
R = 1.0000
DL = 0.01266 ppb
BEC = 0.03266 ppb

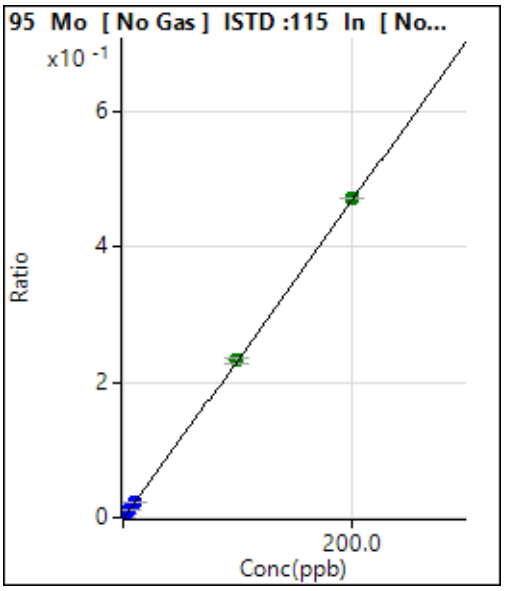
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1680.13	0.0014	P	4.9	
2	☐	2.000	1.571	28176.43	0.0238	P	2.1	-21.5
3	☐	5.000	4.180	71934.31	0.0610	P	2.1	-16.4
4	☐	10.000	9.080	152082.92	0.1307	P	2.7	-9.2
5	☐	100.000	96.884	1572687.27	1.3812	A	2.7	-3.1
6	☐	200.000	201.629	3190047.98	2.8729	A	1.6	0.8

y = 0.0142 * x + 0.0014
R = 0.9998
DL = 0.01476 ppb
BEC = 0.1002 ppb

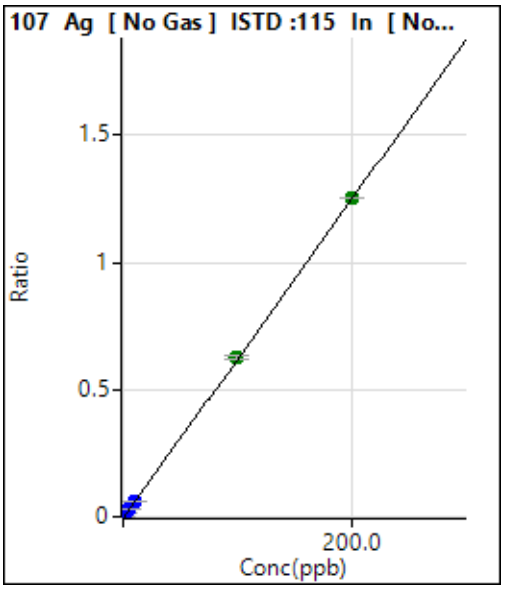
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	193.34	0.0000	P	45.6	
2	☐	2.000	1.982	25354.24	0.0047	P	3.6	-0.9
3	☐	5.000	4.844	61999.25	0.0114	P	1.9	-3.1
4	☐	10.000	9.866	125420.09	0.0232	P	2.4	-1.3
5	☐	100.000	98.611	1194393.78	0.2317	A	2.6	-1.4
6	☐	200.000	200.706	2401501.16	0.4715	A	0.1	0.4

y = 0.0023 * x + 3.5413E-005
R = 1.0000
DL = 0.02063 ppb
BEC = 0.01507 ppb

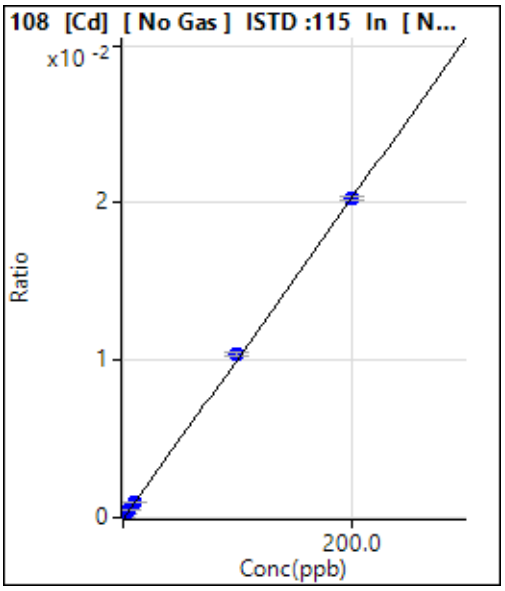
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	843.38	0.0002	P	8.1	
2	☐	2.000	2.025	69463.52	0.0129	P	2.8	1.3
3	☐	5.000	5.027	172063.10	0.0317	P	1.7	0.5
4	☐	10.000	10.121	343805.45	0.0636	P	1.1	1.2
5	☐	100.000	100.245	3241620.37	0.6288	A	2.8	0.2
6	☐	200.000	199.870	6384405.32	1.2536	A	0.6	-0.1

y = 0.0063 * x + 1.5427E-004
R = 1.0000
DL = 0.005997 ppb
BEC = 0.0246 ppb

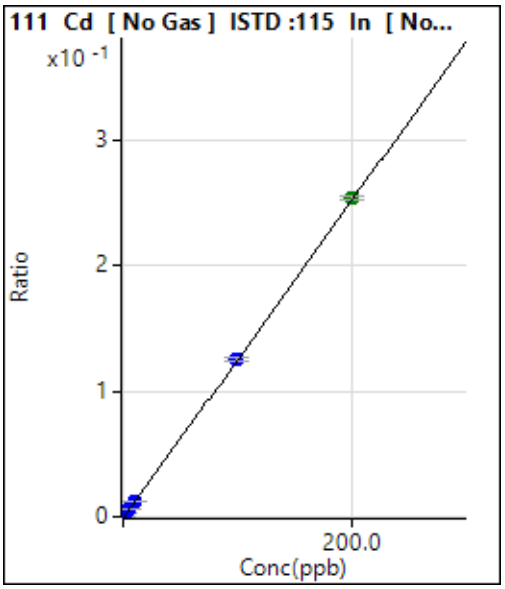
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6.67	0.0000	P	173.2	
2	☐	2.000	1.995	1106.74	0.0002	P	13.3	-0.3
3	☐	5.000	4.879	2710.33	0.0005	P	0.8	-2.4
4	☐	10.000	10.130	5591.27	0.0010	P	0.7	1.3
5	☐	100.000	101.970	53637.82	0.0104	P	2.0	2.0
6	☐	200.000	199.012	103414.66	0.0203	P	0.9	-0.5

y = 1.0203E-004 * x + 1.2162E-006
R = 0.9999
DL = 0.06194 ppb
BEC = 0.01192 ppb

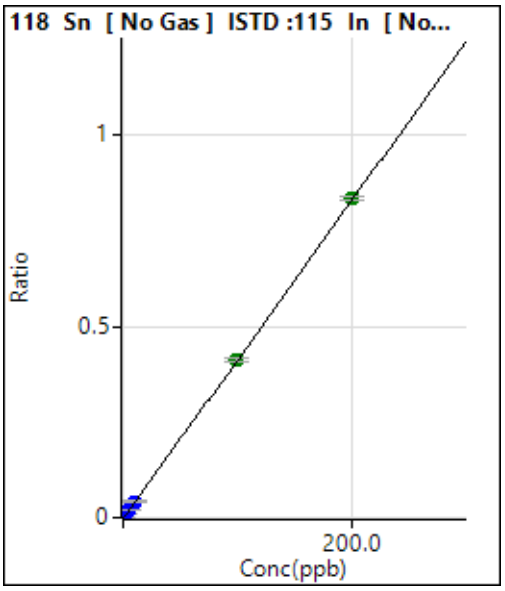
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16.18	0.0000	P	181.1	
2	☐	2.000	1.981	13574.23	0.0025	P	9.1	-1.0
3	☐	5.000	4.959	34133.56	0.0063	P	2.5	-0.8
4	☐	10.000	9.756	66792.22	0.0124	P	3.1	-2.4
5	☐	100.000	98.615	643980.48	0.1249	P	2.3	-1.4
6	☐	200.000	200.706	1294841.88	0.2542	A	1.0	0.4

y = 0.0013 * x + 2.9543E-006
R = 1.0000
DL = 0.01267 ppb
BEC = 0.002332 ppb

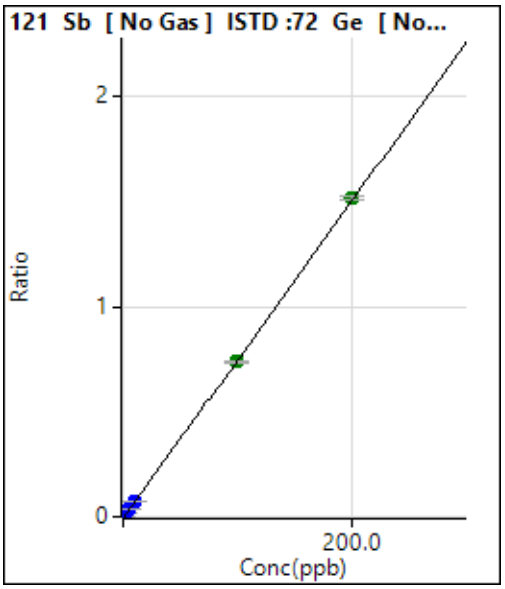
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6124.86	0.0011	P	4.1	
2	☐	2.000	2.069	52568.32	0.0097	P	3.0	3.5
3	☐	5.000	4.943	117741.68	0.0217	P	1.8	-1.1
4	☐	10.000	9.970	230119.40	0.0426	P	1.9	-0.3
5	☐	100.000	99.084	2130163.56	0.4132	A	1.9	-0.9
6	☐	200.000	200.460	4251728.27	0.8348	A	1.5	0.2

y = 0.0042 * x + 0.0011
R = 1.0000
DL = 0.03341 ppb
BEC = 0.2694 ppb

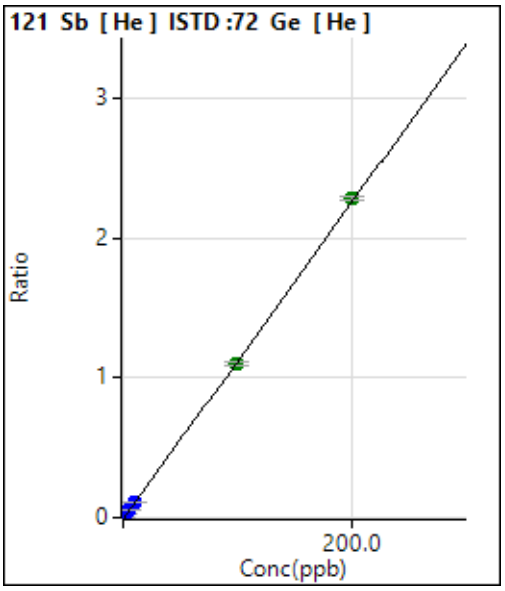
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	450.01	0.0001	P	10.5	
2	☐	2.000	1.983	62045.06	0.0151	P	1.4	-0.9
3	☐	5.000	4.990	154660.79	0.0378	P	0.9	-0.2
4	☐	10.000	10.053	307370.92	0.0760	P	1.5	0.5
5	☐	100.000	97.899	2865220.27	0.7388	A	1.6	-2.1
6	☐	200.000	201.048	5816531.79	1.5171	A	1.8	0.5

y = 0.0075 * x + 1.0981E-004
R = 0.9999
DL = 0.00459 ppb
BEC = 0.01455 ppb

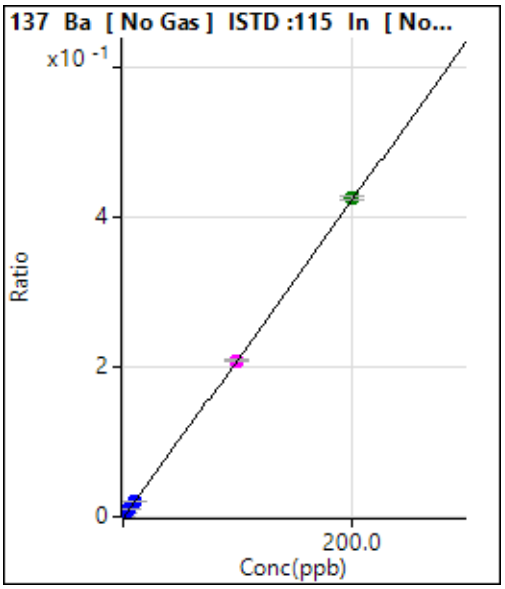
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	283.34	0.0002	P	19.9	
2	☐	2.000	1.877	25494.88	0.0215	P	1.3	-6.1
3	☐	5.000	4.788	64389.44	0.0546	P	2.2	-4.2
4	☐	10.000	9.820	129844.74	0.1116	P	2.6	-1.8
5	☐	100.000	96.637	1248588.89	1.0965	A	2.5	-3.4
6	☐	200.000	201.697	2540939.80	2.2883	A	1.2	0.8

y = 0.0113 * x + 2.4049E-004
R = 0.9998
DL = 0.01265 ppb
BEC = 0.0212 ppb

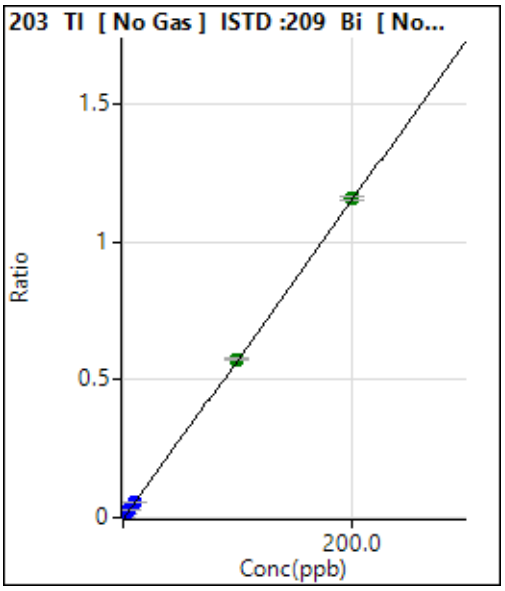
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	893.38	0.0002	P	12.4	
2	☐	2.000	2.214	26276.57	0.0049	P	2.4	10.7
3	☐	5.000	4.861	56920.11	0.0105	P	2.0	-2.8
4	☐	10.000	9.803	113295.91	0.0210	P	1.4	-2.0
5	☐	100.000	98.448	1077914.15	0.2091	M	1.8	-1.6
6	☐	200.000	200.787	2171018.98	0.4263	A	1.2	0.4

y = 0.0021 * x + 1.6343E-004
R = 1.0000
DL = 0.02857 ppb
BEC = 0.07701 ppb

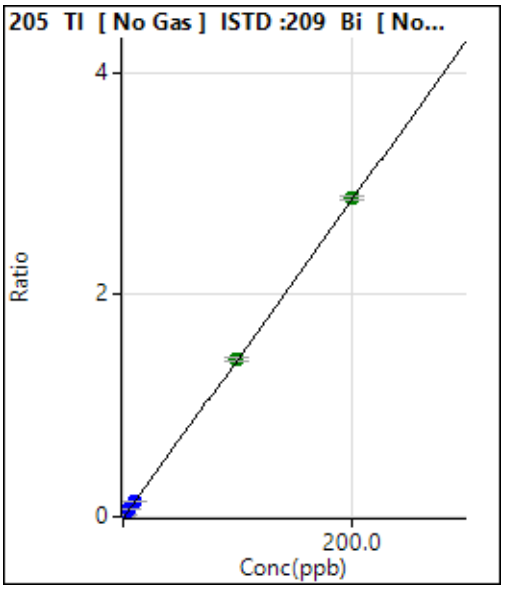
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1230.09	0.0002	P	1.3	
2	☐	2.000	1.807	61355.70	0.0107	P	1.0	-9.7
3	☐	5.000	4.760	161845.36	0.0278	P	1.3	-4.8
4	☐	10.000	9.818	328100.53	0.0570	P	0.2	-1.8
5	☐	100.000	99.166	3206285.79	0.5742	A	1.4	-0.8
6	☐	200.000	200.434	6377438.24	1.1603	A	1.3	0.2

y = 0.0058 * x + 2.1599E-004
R = 1.0000
DL = 0.001412 ppb
BEC = 0.03732 ppb

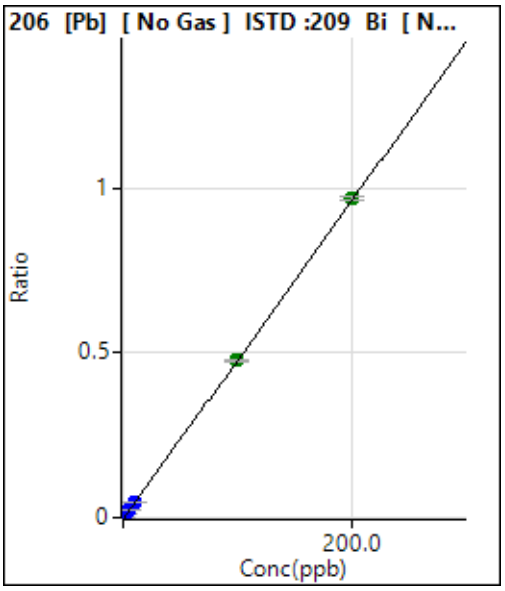
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2840.38	0.0005	P	6.7	
2	☐	2.000	1.742	146130.02	0.0254	P	1.0	-12.9
3	☐	5.000	4.615	387799.11	0.0665	P	0.6	-7.7
4	☐	10.000	9.477	782940.41	0.1361	P	0.9	-5.2
5	☐	100.000	99.068	7919079.46	1.4181	A	1.6	-0.9
6	☐	200.000	200.504	15772541.85	2.8697	A	0.9	0.3

y = 0.0143 * x + 4.9888E-004
R = 1.0000
DL = 0.007026 ppb
BEC = 0.03486 ppb

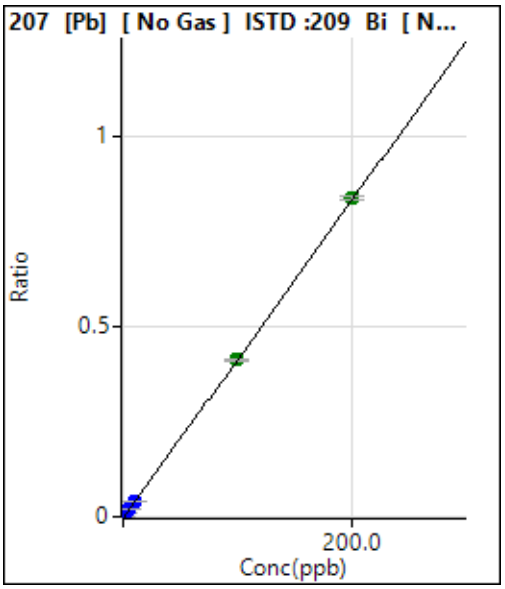
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1390.11	0.0002	P	10.9	
2	☐	2.000	1.910	54441.76	0.0095	P	0.9	-4.5
3	☐	5.000	4.875	138674.39	0.0238	P	0.6	-2.5
4	☐	10.000	9.894	276350.48	0.0480	P	0.8	-1.1
5	☐	100.000	98.626	2662080.06	0.4767	A	1.1	-1.4
6	☐	200.000	200.696	5330407.42	0.9698	A	1.4	0.3

y = 0.0048 * x + 2.4425E-004
R = 1.0000
DL = 0.01653 ppb
BEC = 0.05056 ppb

Weight: <None>
Min Conc: <None>

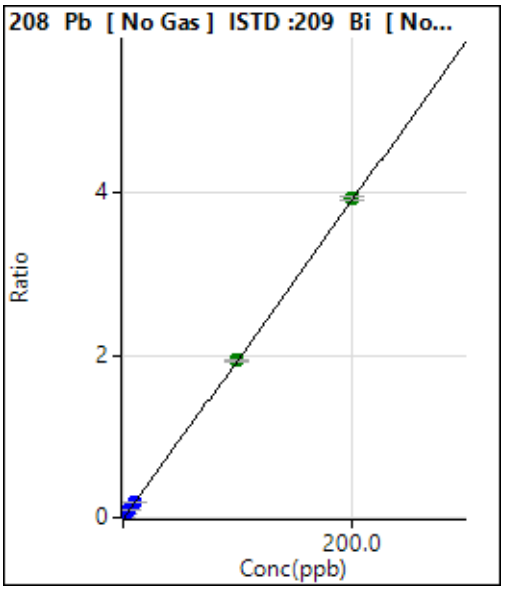


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1326.76	0.0002	P	13.0	
2	☐	2.000	1.949	48199.16	0.0084	P	1.9	-2.6
3	☐	5.000	4.888	120537.44	0.0207	P	1.9	-2.2
4	☐	10.000	9.882	239120.22	0.0416	P	0.8	-1.2
5	☐	100.000	98.681	2306490.44	0.4130	A	1.1	-1.3
6	☐	200.000	200.669	4615146.80	0.8397	A	1.5	0.3

y = 0.0042 * x + 2.3280E-004
R = 1.0000
DL = 0.02164 ppb
BEC = 0.05565 ppb

Weight: <None>
Min Conc: <None>

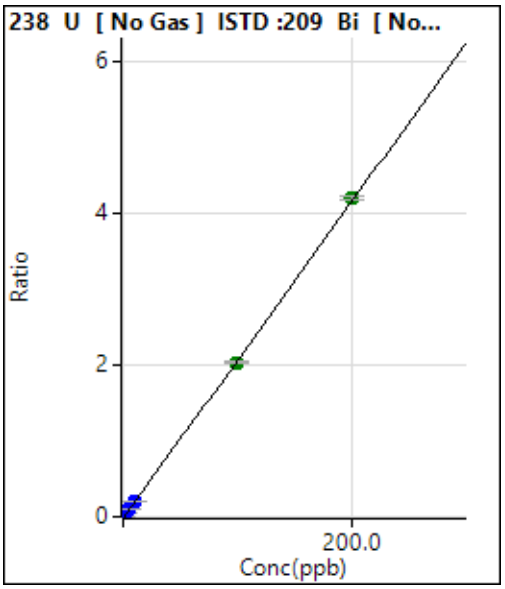
Calibration for 218_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5820.65	0.0010	P	2.9	
2	☐	2.000	1.914	221755.03	0.0386	P	0.4	-4.3
3	☐	5.000	4.805	555429.51	0.0953	P	0.8	-3.9
4	☐	10.000	9.701	1100723.80	0.1914	P	0.9	-3.0
5	☐	100.000	98.819	10833656.04	1.9401	A	0.9	-1.2
6	☐	200.000	200.611	21641126.13	3.9374	A	1.3	0.3

y = 0.0196 * x + 0.0010
R = 1.0000
DL = 0.004475 ppb
BEC = 0.05209 ppb

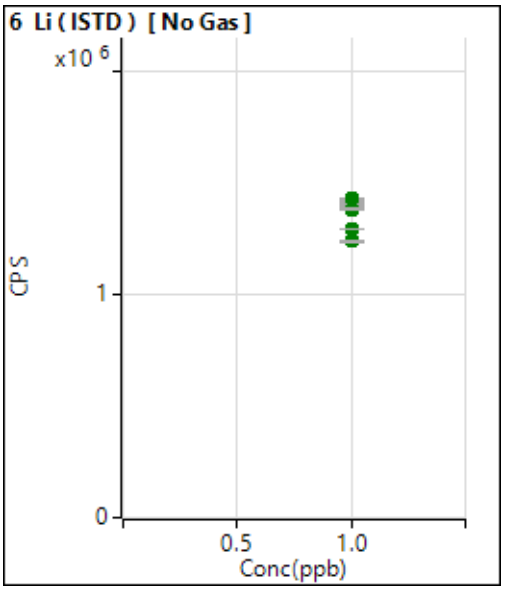
Weight: <None>
Min Conc: <None>



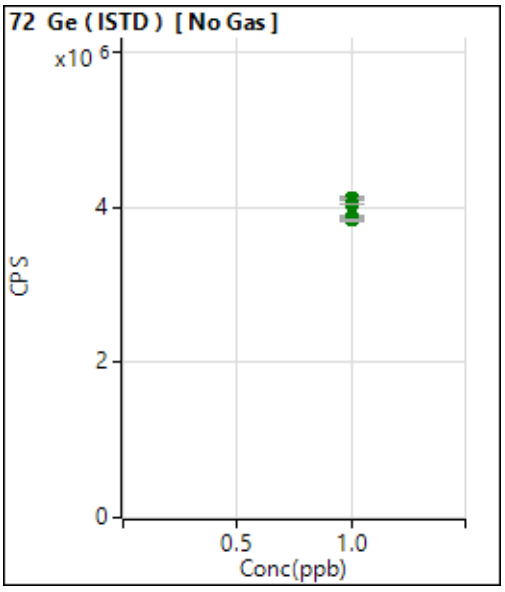
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4307.51	0.0008	P	3.9	
2	☐	2.000	1.823	223408.42	0.0389	P	1.3	-8.9
3	☐	5.000	4.578	562286.40	0.0965	P	0.8	-8.4
4	☐	10.000	9.238	1115451.42	0.1939	P	1.1	-7.6
5	☐	100.000	97.520	11391080.25	2.0399	A	1.0	-2.5
6	☐	200.000	201.291	23138007.15	4.2097	A	1.6	0.6

y = 0.0209 * x + 7.5650E-004
R = 0.9999
DL = 0.004286 ppb
BEC = 0.03618 ppb

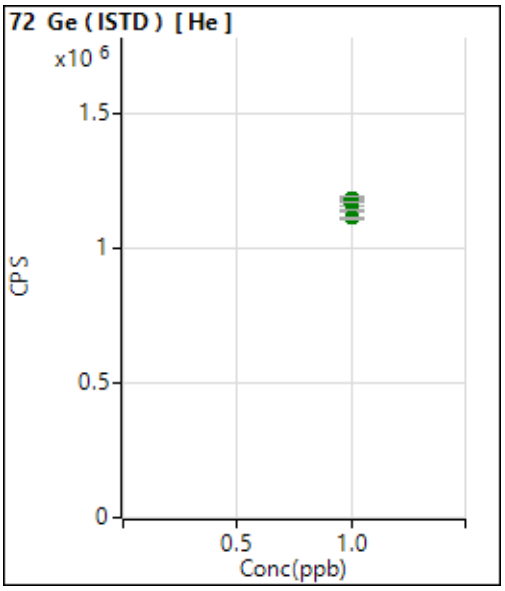
Weight: <None>
Min Conc: <None>



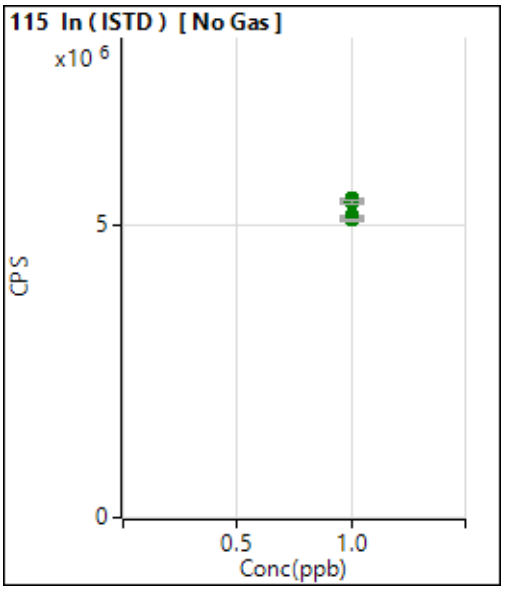
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1432988.15		A	0.6	
2	☐	1.000		1422407.92		A	0.4	
3	☐	1.000		1405542.21		A	0.4	
4	☐	1.000		1384224.02		A	0.7	
5	☐	1.000		1292698.36		A	0.2	
6	☐	1.000		1239713.30		A	0.5	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4099067.23		A	0.8	
2	☐	1.000		4117109.21		A	0.9	
3	☐	1.000		4095960.36		A	0.5	
4	☐	1.000		4046244.73		A	0.3	
5	☐	1.000		3878311.09		A	0.5	
6	☐	1.000		3833939.11		A	0.6	

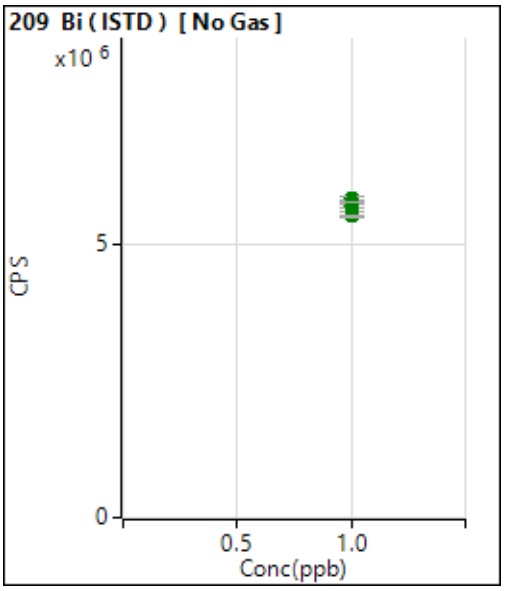


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1177508.26		A	0.7	
2	☐	1.000		1183818.29		A	1.4	
3	☐	1.000		1180155.40		A	1.8	
4	☐	1.000		1163171.26		A	1.1	
5	☐	1.000		1138806.67		A	0.9	
6	☐	1.000		1110352.72		A	0.7	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		5466008.96		A	0.4	
2	☐	1.000		5404327.92		A	0.5	
3	☐	1.000		5431307.58		A	0.3	
4	☐	1.000		5403499.29		A	0.8	
5	☐	1.000		5155412.32		A	0.5	
6	☐	1.000		5092861.04		A	0.5	

Calibration for 218_ICV.d



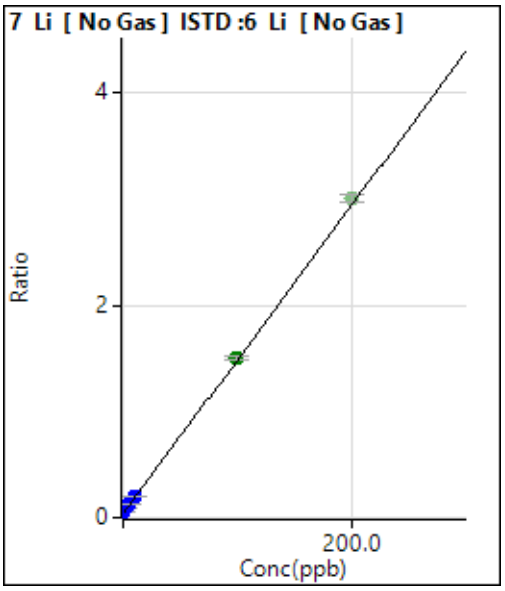
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		5695482.21		A	1.0	
2	☐	1.000		5747471.37		A	1.2	
3	☐	1.000		5827952.62		A	1.0	
4	☐	1.000		5751858.45		A	0.2	
5	☐	1.000		5584293.25		A	0.4	
6	☐	1.000		5496197.21		A	0.2	

Calibration for 123_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\062524A.b\
Analysis File: 062524A.batch.bin
DA Date-Time: 6/26/2024 8:26:09 AM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	116CALB.d	CAL BLK	6/25/2024 3:47:08 PM
2	117CALS.d	2/10/200	6/25/2024 3:49:38 PM
3	118CALS.d	5/25/500	6/25/2024 3:52:08 PM
4	119CALS.d	10/50/100	6/25/2024 3:54:39 PM
5	120CALS.d	100/500/10K	6/25/2024 3:57:08 PM
6	121CALS.d	200/1000/20K	6/25/2024 3:59:38 PM

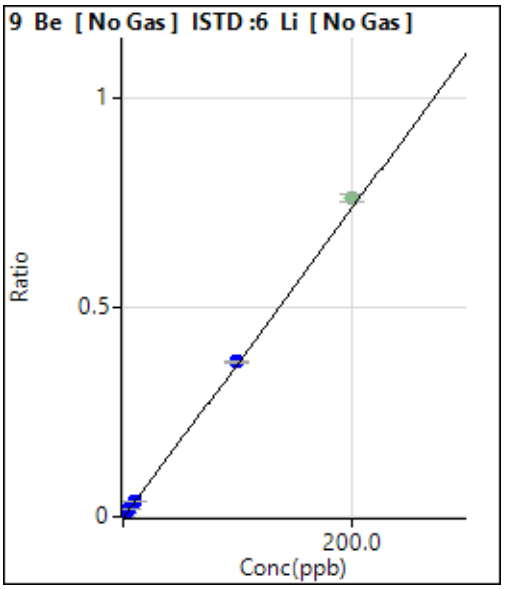
Calibration for 123_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	91003.24	0.0543	P	0.5	
2	☐	2.000	1.967	135801.46	0.0828	P	1.3	-1.6
3	☐	5.000	4.954	204053.63	0.1261	P	0.4	-0.9
4	☐	10.000	10.038	314748.84	0.1998	P	1.3	0.4
5	☐	100.000	99.999	2252302.10	1.5043	A	2.2	0.0
6	☑	200.000		4295084.10	3.0049	A	2.0	

y = 0.0145 * x + 0.0543
R = 1.0000
DL = 0.0599 ppb
BEC = 3.744 ppb

Weight: <None>
Min Conc: <None>

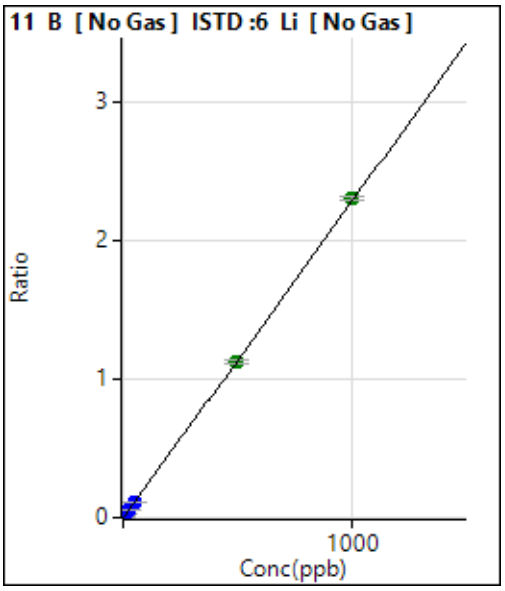


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	230.00	0.0001	P	27.7	
2	☐	2.000	1.902	11771.61	0.0072	P	2.0	-4.9
3	☐	5.000	4.830	29161.52	0.0180	P	1.0	-3.4
4	☐	10.000	9.798	57351.63	0.0364	P	4.0	-2.0
5	☐	100.000	100.031	554805.86	0.3705	P	1.7	0.0
6	☑	200.000		1090310.09	0.7628	A	1.9	

y = 0.0037 * x + 1.3710E-004
R = 1.0000
DL = 0.03077 ppb
BEC = 0.03702 ppb

Weight: <None>
Min Conc: <None>

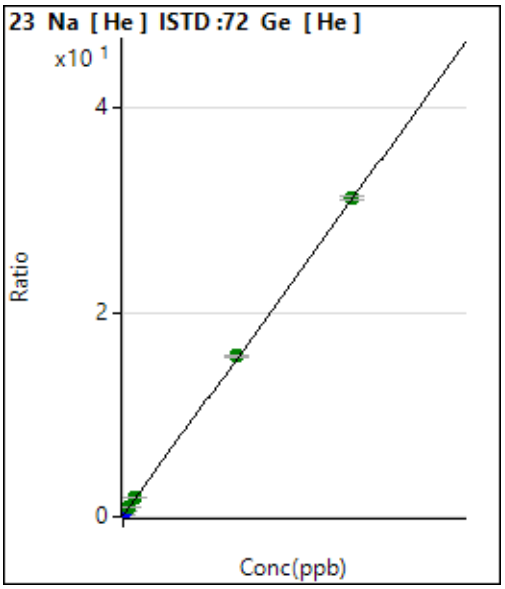
Calibration for 123_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	11521.41	0.0069	P	2.4	
2	☐	10.000	9.636	47375.21	0.0289	P	0.6	-3.6
3	☐	25.000	23.398	97622.44	0.0603	P	0.4	-6.4
4	☐	50.000	48.118	183988.66	0.1168	P	1.7	-3.8
5	☐	500.000	488.824	1682650.81	1.1238	A	1.8	-2.2
6	☐	1000.000	1005.726	3294655.99	2.3049	A	1.1	0.6

y = 0.0023 * x + 0.0069
R = 0.9999
DL = 0.2126 ppb
BEC = 3.008 ppb

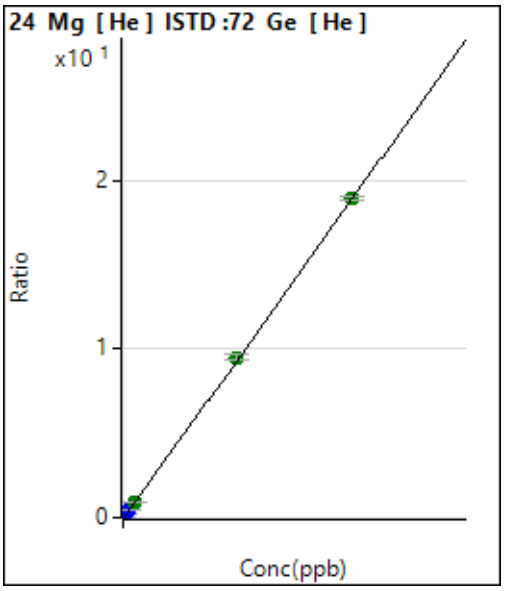
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	321941.48	0.2767	P	1.6	
2	☐	200.000	183.255	654923.78	0.5599	P	1.4	-8.4
3	☐	500.000	471.113	1164116.52	1.0047	A	2.3	-5.8
4	☐	1000.000	997.823	2070850.23	1.8185	A	0.5	-0.2
5	☐	10000.00	9980.713	17609042.24	15.6978	A	2.2	-0.2
6	☐	20000.00	20010.64	34254962.82	31.1950	A	1.2	0.1

y = 0.0015 * x + 0.2767
R = 1.0000
DL = 8.492 ppb
BEC = 179.1 ppb

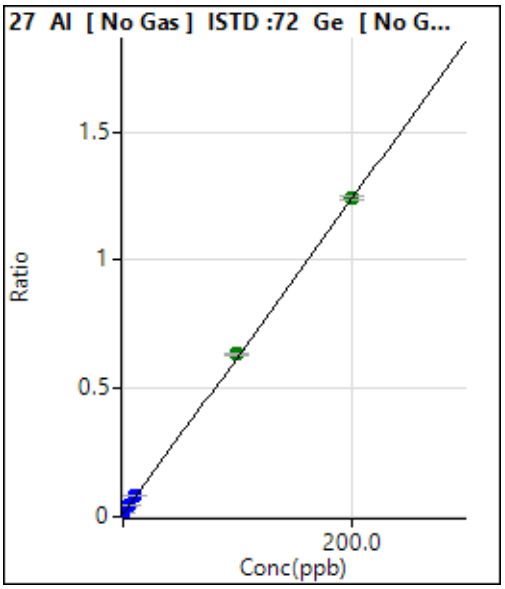
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	893.38	0.0008	P	5.2	
2	☐	200.000	192.523	214489.24	0.1834	P	1.6	-3.7
3	☐	500.000	481.411	529997.76	0.4574	P	3.7	-3.7
4	☐	1000.000	1014.470	1096589.41	0.9630	A	0.1	1.4
5	☐	10000.00	10047.61	10690653.17	9.5306	A	2.5	0.5
6	☐	20000.00	19976.00	20805941.36	18.9473	A	1.1	-0.1

y = 9.4846E-004 * x + 7.6806E-004
R = 1.0000
DL = 0.1266 ppb
BEC = 0.8098 ppb

Weight: <None>
Min Conc: <None>

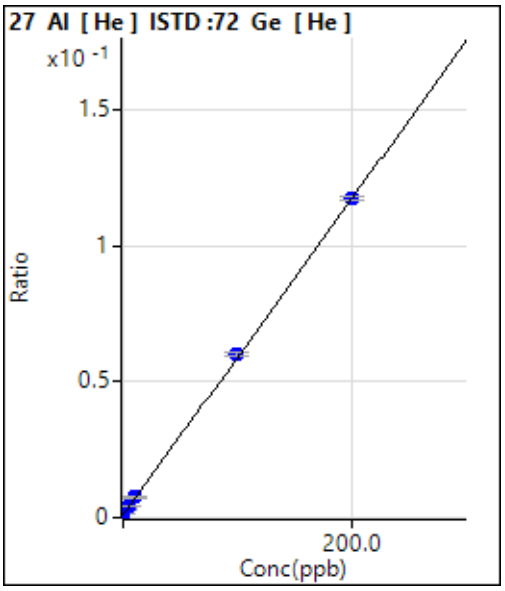


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	64770.12	0.0159	P	1.7	
2	☐	2.000	2.991	140429.14	0.0343	P	1.0	49.6
3	☐	5.000	5.018	190061.91	0.0467	P	2.1	0.4
4	☐	10.000	10.353	320636.44	0.0795	P	1.2	3.5
5	☐	100.000	100.702	2479820.07	0.6349	A	1.6	0.7
6	☐	200.000	199.621	4792184.20	1.2430	A	1.8	-0.2

y = 0.0061 * x + 0.0159
R = 1.0000
DL = 0.1281 ppb
BEC = 2.583 ppb

Weight: <None>
Min Conc: <None>

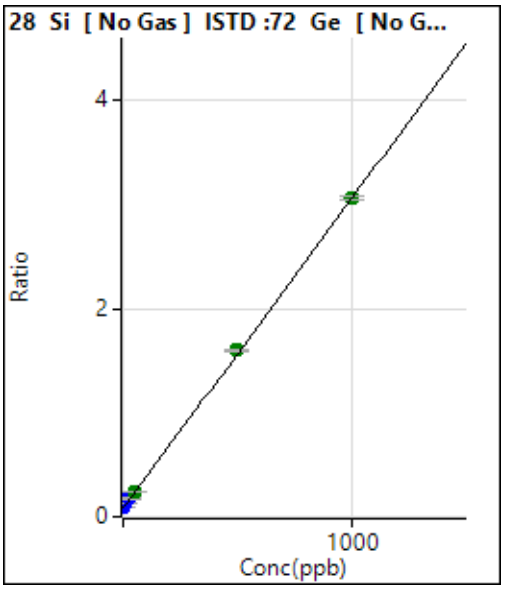
Calibration for 123_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1796.82	0.0015	P	13.2	
2	☐	2.000	2.931	3800.61	0.0032	P	6.6	46.6
3	☐	5.000	4.893	5087.70	0.0044	P	5.0	-2.1
4	☐	10.000	10.332	8602.75	0.0076	P	3.6	3.3
5	☐	100.000	100.930	67571.85	0.0602	P	3.0	0.9
6	☐	200.000	199.512	129111.29	0.1176	P	1.5	-0.2

y = 5.8157E-004 * x + 0.0015
R = 1.0000
DL = 1.052 ppb
BEC = 2.657 ppb

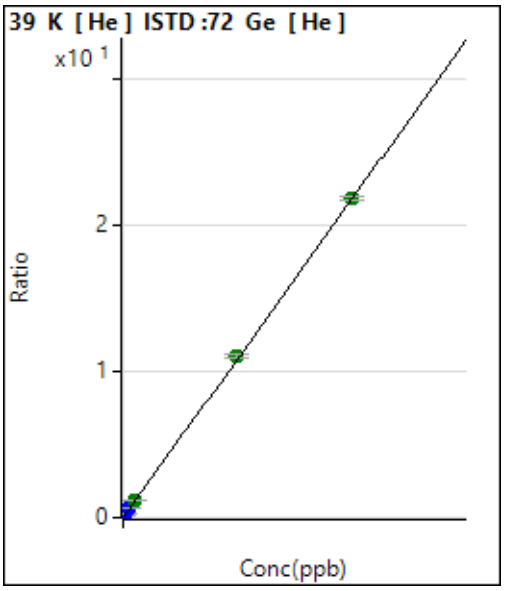
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	388377.05	0.0952	P	0.3	
2	☐	10.000	11.436	529644.03	0.1292	P	0.9	14.4
3	☐	25.000	26.952	713459.73	0.1754	P	0.9	7.8
4	☐	50.000	50.617	991057.85	0.2458	A	1.0	1.2
5	☐	500.000	506.361	6255443.66	1.6017	A	1.2	1.3
6	☐	1000.000	996.725	11798675.24	3.0605	A	1.7	-0.3

y = 0.0030 * x + 0.0952
R = 1.0000
DL = 0.2656 ppb
BEC = 32.01 ppb

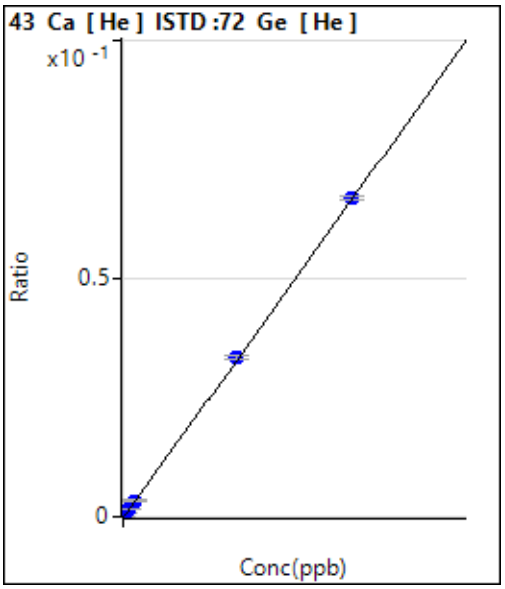
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	124829.84	0.1073	P	0.1	
2	☐	200.000	191.152	369134.79	0.3156	P	1.4	-4.4
3	☐	500.000	484.894	736485.49	0.6356	P	2.5	-3.0
4	☐	1000.000	1011.868	1377701.70	1.2098	A	0.0	1.2
5	☐	10000.00	10057.46	12412694.40	11.0656	A	2.0	0.6
6	☐	20000.00	19971.13	24012157.98	21.8673	A	1.3	-0.1

y = 0.0011 * x + 0.1073
R = 1.0000
DL = 0.154 ppb
BEC = 98.48 ppb

Weight: <None>
Min Conc: <None>

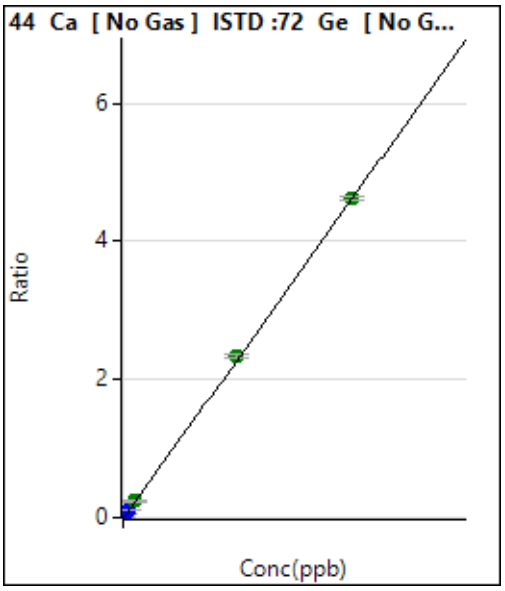


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	43.33	0.0000	P	57.6	
2	☐	200.000	192.400	796.70	0.0007	P	5.1	-3.8
3	☐	500.000	449.620	1786.82	0.0015	P	6.4	-10.1
4	☐	1000.000	1005.975	3877.26	0.0034	P	3.2	0.6
5	☐	10000.00	9966.497	37457.34	0.0334	P	2.0	-0.3
6	☐	20000.00	20017.78	73611.18	0.0670	P	1.5	0.1

y = 3.3468E-006 * x + 3.7205E-005
R = 1.0000
DL = 19.22 ppb
BEC = 11.12 ppb

Weight: <None>
Min Conc: <None>

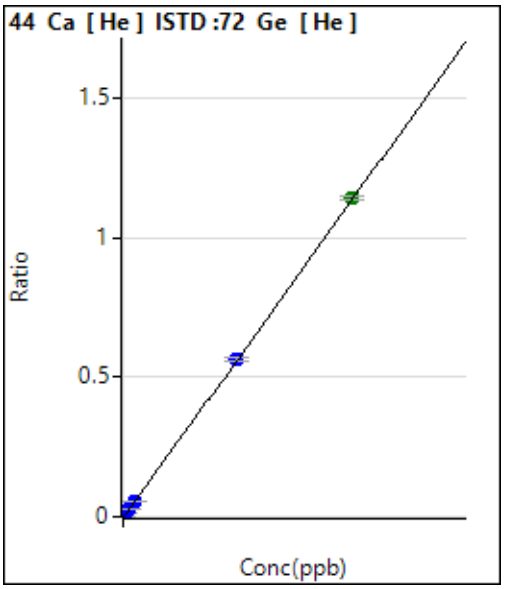
Calibration for 123_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	27230.15	0.0067	P	1.1	
2	☐	200.000	208.057	224649.09	0.0548	P	2.3	4.0
3	☐	500.000	505.820	503239.55	0.1237	P	2.0	1.2
4	☐	1000.000	996.604	956737.17	0.2373	A	1.8	-0.3
5	☐	10000.00	10071.34	9128186.74	2.3372	A	1.6	0.7
6	☐	20000.00	19964.27	17835365.57	4.6264	A	1.8	-0.2

y = 2.3140E-004 * x + 0.0067
R = 1.0000
DL = 0.9426 ppb
BEC = 28.85 ppb

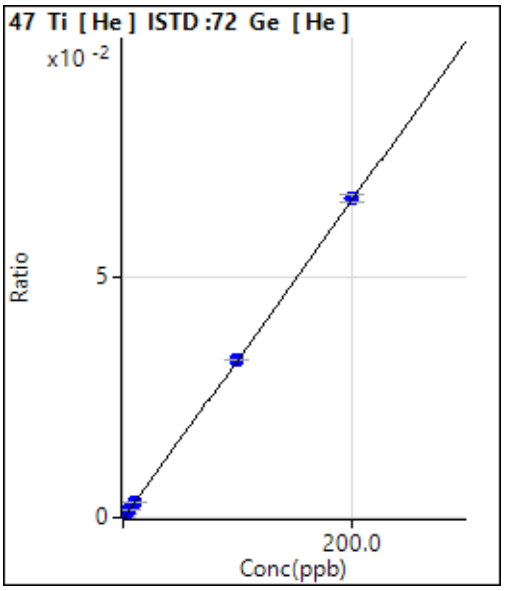
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	920.05	0.0008	P	7.0	
2	☐	200.000	198.184	14150.82	0.0121	P	6.9	-0.9
3	☐	500.000	484.070	32919.17	0.0284	P	1.4	-3.2
4	☐	1000.000	989.865	65209.62	0.0573	P	1.2	-1.0
5	☐	10000.00	9905.756	634861.45	0.5660	P	2.0	-0.9
6	☐	20000.00	20048.04	1256934.25	1.1446	A	1.5	0.2

y = 5.7054E-005 * x + 7.9066E-004
R = 1.0000
DL = 2.919 ppb
BEC = 13.86 ppb

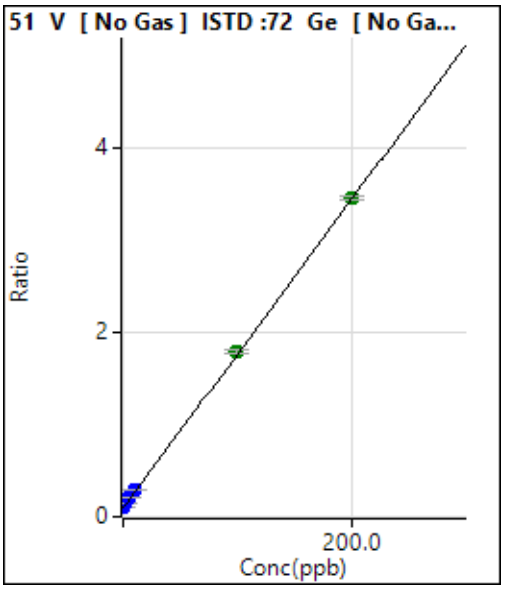
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16.67	0.0000	P	69.9	
2	☐	2.000	2.022	800.04	0.0007	P	11.0	1.1
3	☐	5.000	4.810	1860.16	0.0016	P	17.3	-3.8
4	☐	10.000	9.976	3777.24	0.0033	P	1.8	-0.2
5	☐	100.000	98.996	36779.08	0.0328	P	0.6	-1.0
6	☐	200.000	200.508	72907.57	0.0664	P	1.9	0.3

y = 3.3104E-004 * x + 1.4366E-005
R = 1.0000
DL = 0.09103 ppb
BEC = 0.0434 ppb

Weight: <None>
Min Conc: <None>

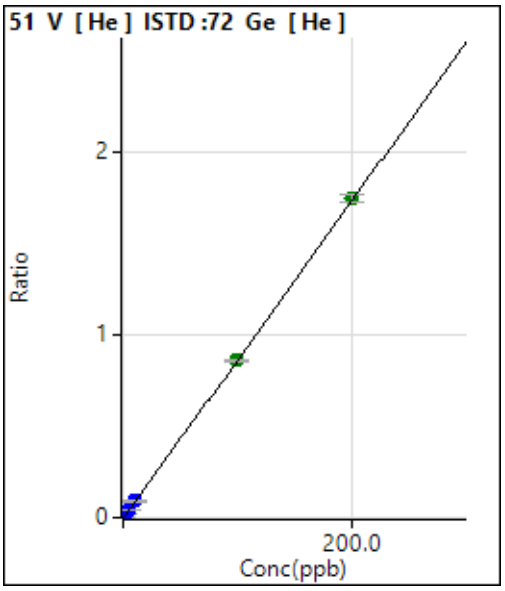


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	453557.67	0.1112	P	1.0	
2	☐	2.000	2.203	606605.10	0.1480	P	1.3	10.1
3	☐	5.000	5.439	822123.80	0.2021	P	1.7	8.8
4	☐	10.000	10.838	1178835.30	0.2924	P	0.8	8.4
5	☐	100.000	100.170	6974698.70	1.7858	A	1.5	0.2
6	☐	200.000	199.860	13309114.98	3.4524	A	1.8	-0.1

y = 0.0167 * x + 0.1112
R = 1.0000
DL = 0.1965 ppb
BEC = 6.652 ppb

Weight: <None>
Min Conc: <None>

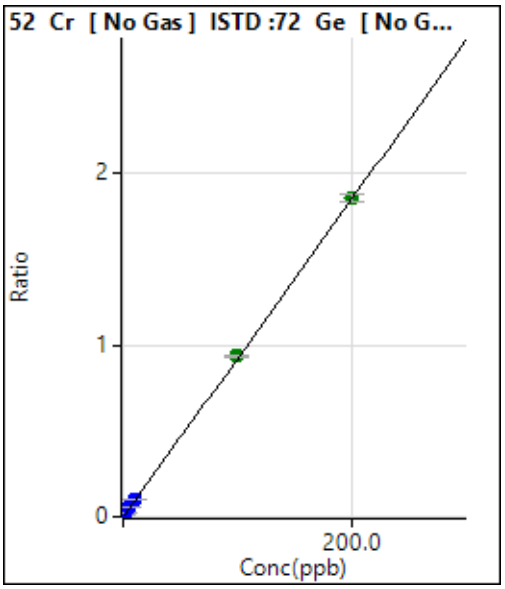
Calibration for 123_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3789.43	0.0033	P	2.9	
2	☐	2.000	1.908	23211.63	0.0198	P	2.8	-4.6
3	☐	5.000	4.765	51769.62	0.0447	P	2.8	-4.7
4	☐	10.000	10.002	102739.73	0.0902	P	2.0	0.0
5	☐	100.000	98.405	963216.11	0.8587	A	2.4	-1.6
6	☐	200.000	200.804	1920441.80	1.7488	A	1.9	0.4

y = 0.0087 * x + 0.0033
R = 1.0000
DL = 0.03223 ppb
BEC = 0.3747 ppb

Weight: <None>
Min Conc: <None>

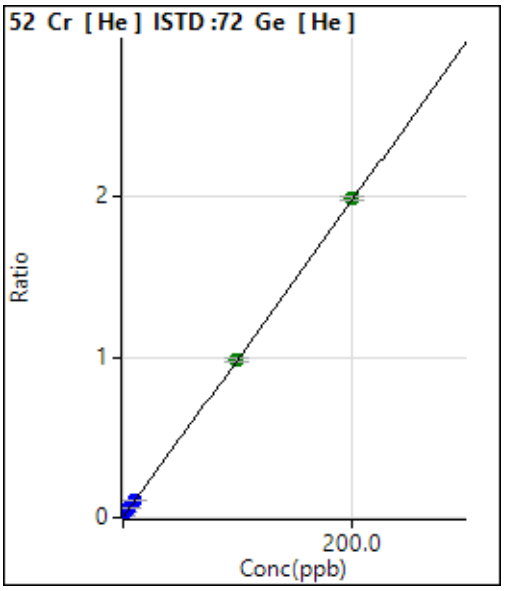


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	27009.97	0.0066	P	1.4	
2	☐	2.000	2.049	104794.40	0.0256	P	2.0	2.4
3	☐	5.000	5.058	217253.33	0.0534	P	1.3	1.2
4	☐	10.000	10.151	405311.49	0.1005	P	1.1	1.5
5	☐	100.000	100.356	3651833.18	0.9350	A	1.4	0.4
6	☐	200.000	199.812	7151443.02	1.8551	A	1.9	-0.1

y = 0.0093 * x + 0.0066
R = 1.0000
DL = 0.02996 ppb
BEC = 0.7158 ppb

Weight: <None>
Min Conc: <None>

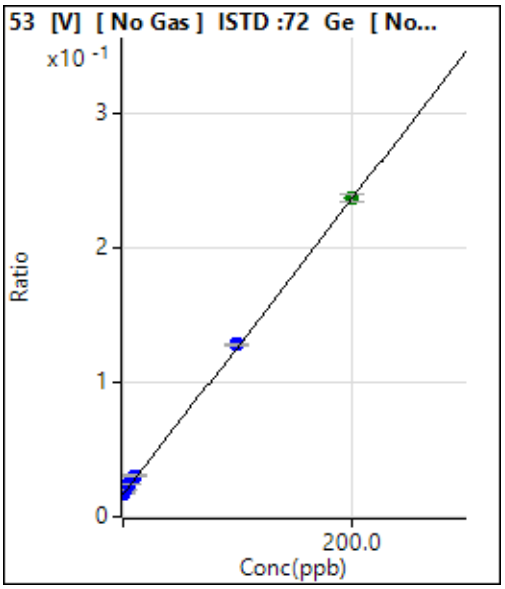
Calibration for 123_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	12989.63	0.0112	P	1.0	
2	☐	2.000	1.929	35321.92	0.0302	P	0.7	-3.5
3	☐	5.000	4.833	68184.68	0.0588	P	3.8	-3.3
4	☐	10.000	10.101	126207.02	0.1108	P	0.8	1.0
5	☐	100.000	98.782	1105733.97	0.9858	A	2.6	-1.2
6	☐	200.000	200.609	2185686.32	1.9904	A	1.7	0.3

y = 0.0099 * x + 0.0112
R = 1.0000
DL = 0.03515 ppb
BEC = 1.132 ppb

Weight: <None>
Min Conc: <None>

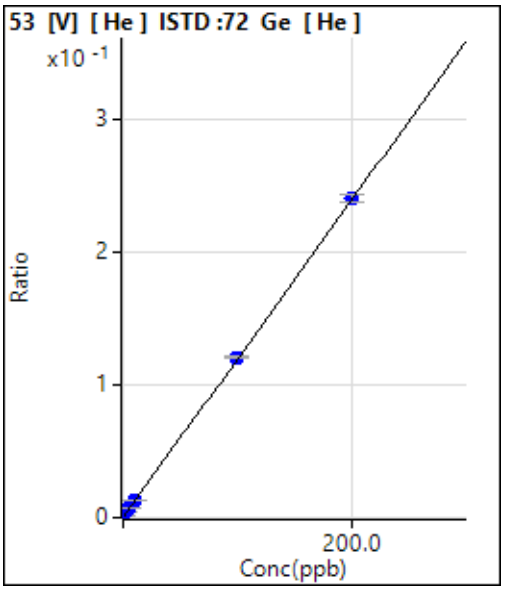


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	72744.09	0.0178	P	1.4	
2	☐	2.000	2.383	83819.92	0.0205	P	1.6	19.1
3	☐	5.000	5.854	98717.08	0.0243	P	1.9	17.1
4	☐	10.000	11.585	123252.36	0.0306	P	1.2	15.8
5	☐	100.000	100.263	500136.87	0.1281	P	1.7	0.3
6	☐	200.000	199.764	915310.85	0.2374	A	2.2	-0.1

y = 0.0011 * x + 0.0178
R = 1.0000
DL = 0.6802 ppb
BEC = 16.22 ppb

Weight: <None>
Min Conc: <None>

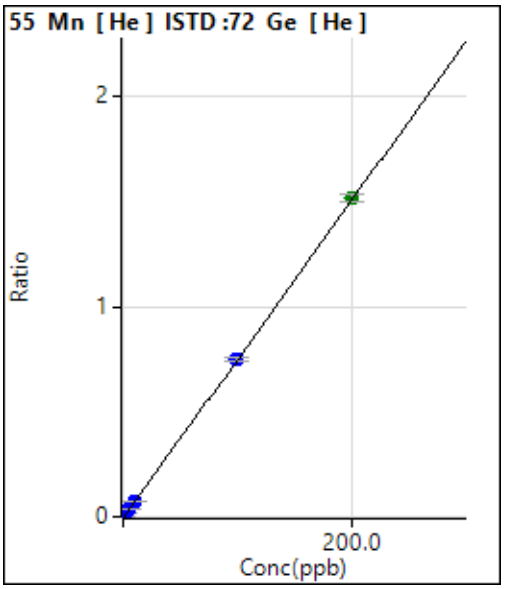
Calibration for 123_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1780.15	0.0015	P	5.1	
2	☐	2.000	2.026	4617.51	0.0039	P	4.8	1.3
3	☐	5.000	4.973	8649.55	0.0075	P	3.5	-0.5
4	☐	10.000	10.050	15395.48	0.0135	P	1.6	0.5
5	☐	100.000	99.818	135299.51	0.1206	P	1.7	-0.2
6	☐	200.000	200.089	263814.19	0.2402	P	2.0	0.0

y = 0.0012 * x + 0.0015
R = 1.0000
DL = 0.1952 ppb
BEC = 1.283 ppb

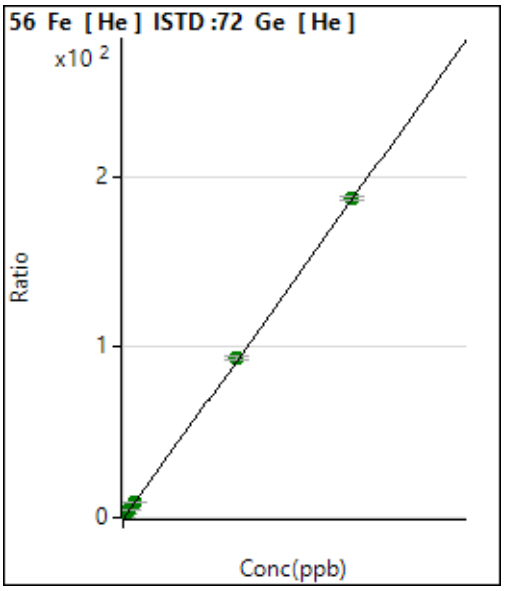
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	833.37	0.0007	P	6.3	
2	☐	2.000	1.930	17908.48	0.0153	P	3.6	-3.5
3	☐	5.000	4.849	43311.44	0.0374	P	3.3	-3.0
4	☐	10.000	10.045	87315.37	0.0767	P	2.5	0.4
5	☐	100.000	99.036	840741.34	0.7495	P	1.4	-1.0
6	☐	200.000	200.484	1665307.79	1.5165	A	2.0	0.2

y = 0.0076 * x + 7.1644E-004
R = 1.0000
DL = 0.01804 ppb
BEC = 0.09476 ppb

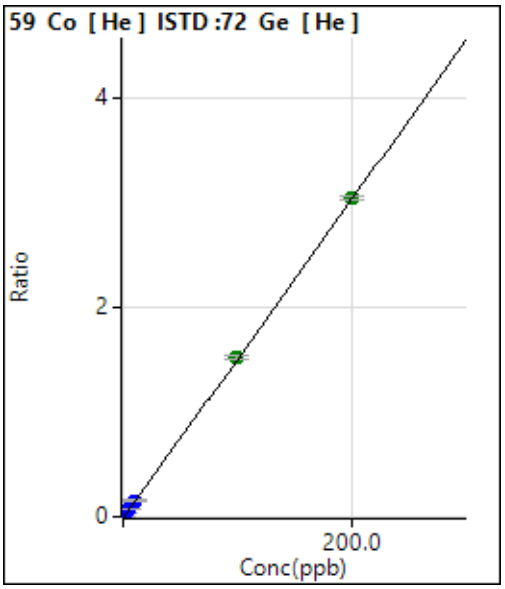
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	20475.76	0.0176	P	4.5	
2	☐	200.000	194.991	2155481.11	1.8427	A	1.7	-2.5
3	☐	500.000	482.440	5252886.69	4.5333	A	2.2	-3.5
4	☐	1000.000	1005.981	10743919.84	9.4336	A	1.5	0.6
5	☐	10000.00	9986.993	104877321.7	93.4964	A	2.6	-0.1
6	☐	20000.00	20006.69	205654770.2	187.281	A	1.3	0.0

y = 0.0094 * x + 0.0176
R = 1.0000
DL = 0.2551 ppb
BEC = 1.881 ppb

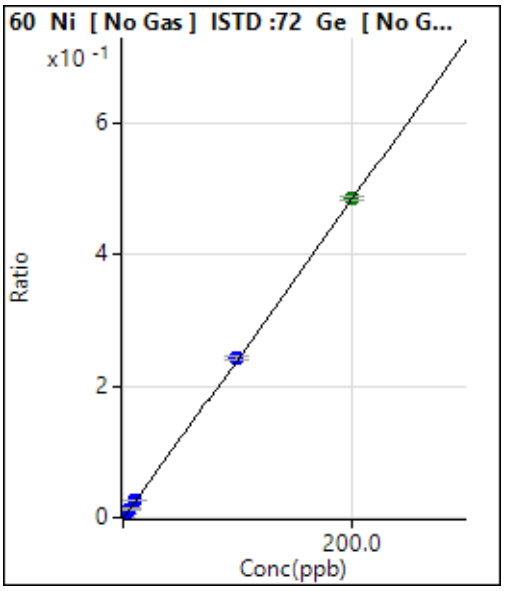
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	803.37	0.0007	P	2.4	
2	☐	2.000	1.900	34687.26	0.0297	P	2.0	-5.0
3	☐	5.000	4.889	87151.55	0.0752	P	1.7	-2.2
4	☐	10.000	10.153	177025.39	0.1554	P	1.5	1.5
5	☐	100.000	100.015	1710770.03	1.5251	A	2.5	0.0
6	☐	200.000	199.989	3347949.12	3.0489	A	1.4	0.0

y = 0.0152 * x + 6.9061E-004
R = 1.0000
DL = 0.003301 ppb
BEC = 0.04531 ppb

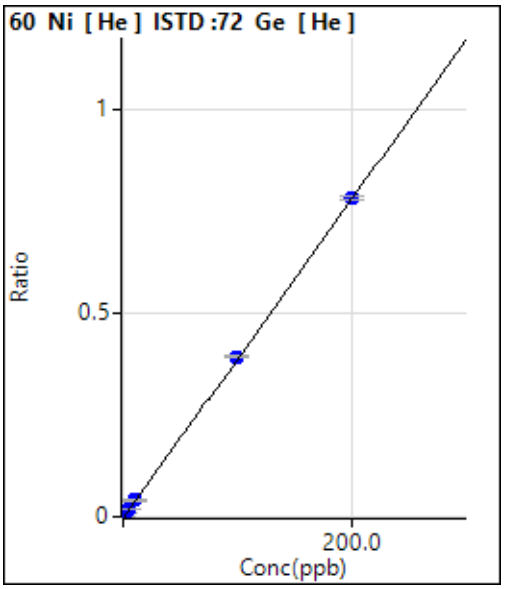
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3663.90	0.0009	P	6.0	
2	☐	2.000	1.981	23366.75	0.0057	P	2.6	-1.0
3	☐	5.000	5.016	53139.27	0.0131	P	2.0	0.3
4	☐	10.000	10.212	103486.37	0.0257	P	1.7	2.1
5	☐	100.000	99.922	950082.48	0.2433	P	1.7	-0.1
6	☐	200.000	200.028	1873903.56	0.4861	A	1.7	0.0

y = 0.0024 * x + 8.9818E-004
R = 1.0000
DL = 0.06666 ppb
BEC = 0.3703 ppb

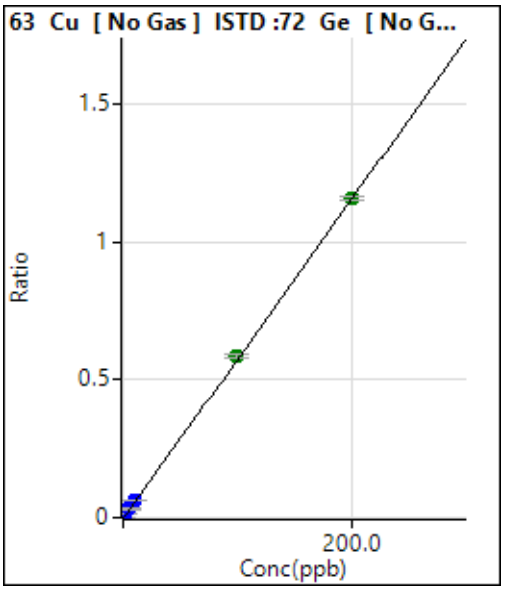
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	423.35	0.0004	P	7.7	
2	☐	2.000	2.006	9603.88	0.0082	P	8.5	0.3
3	☐	5.000	4.911	22675.72	0.0196	P	4.1	-1.8
4	☐	10.000	10.192	45806.41	0.0402	P	2.0	1.9
5	☐	100.000	100.267	440247.23	0.3925	P	1.7	0.3
6	☐	200.000	199.859	858608.89	0.7819	P	1.2	-0.1

y = 0.0039 * x + 3.6378E-004
R = 1.0000
DL = 0.02143 ppb
BEC = 0.09303 ppb

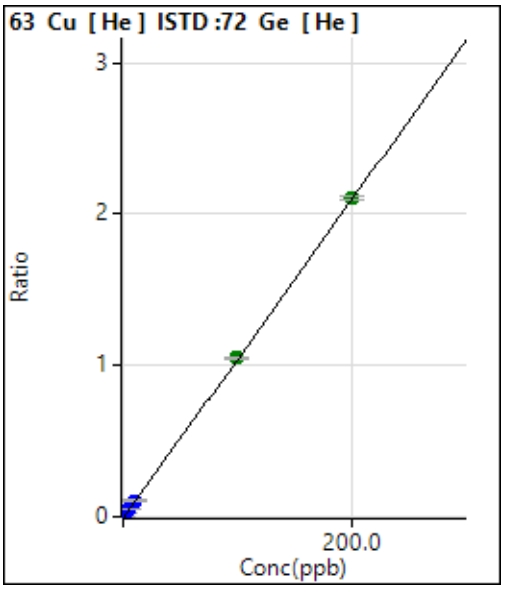
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	7001.93	0.0017	P	3.3	
2	☐	2.000	2.122	57506.90	0.0140	P	1.1	6.1
3	☐	5.000	5.158	128742.09	0.0317	P	2.7	3.2
4	☐	10.000	10.297	247850.91	0.0615	P	1.3	3.0
5	☐	100.000	100.823	2291887.73	0.5868	A	1.7	0.8
6	☐	200.000	199.568	4471530.97	1.1599	A	1.3	-0.2

y = 0.0058 * x + 0.0017
R = 1.0000
DL = 0.02933 ppb
BEC = 0.2958 ppb

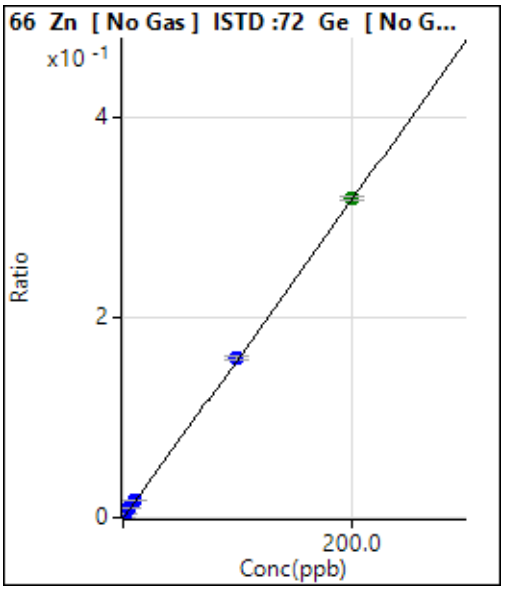
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	756.70	0.0007	P	11.7	
2	☐	2.000	1.992	25266.92	0.0216	P	3.2	-0.4
3	☐	5.000	4.802	59284.39	0.0512	P	0.4	-4.0
4	☐	10.000	10.180	122701.28	0.1077	P	1.5	1.8
5	☐	100.000	99.671	1176878.16	1.0492	A	1.4	-0.3
6	☐	200.000	200.161	2312817.31	2.1063	A	1.7	0.1

y = 0.0105 * x + 6.5039E-004
R = 1.0000
DL = 0.02176 ppb
BEC = 0.06183 ppb

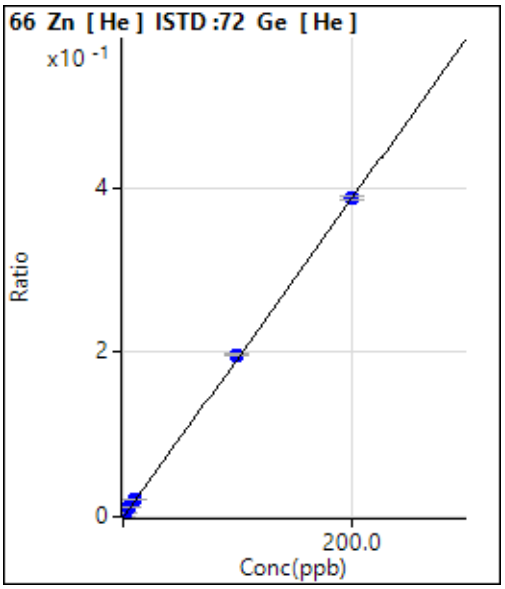
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2770.33	0.0007	P	4.5	
2	☐	2.000	2.457	18826.49	0.0046	P	2.9	22.9
3	☐	5.000	5.103	35833.69	0.0088	P	2.6	2.1
4	☐	10.000	10.003	66996.82	0.0166	P	0.2	0.0
5	☐	100.000	99.727	623213.06	0.1596	P	1.5	-0.3
6	☐	200.000	200.129	1231909.83	0.3195	A	1.5	0.1

y = 0.0016 * x + 6.7929E-004
R = 1.0000
DL = 0.0572 ppb
BEC = 0.4264 ppb

Weight: <None>
Min Conc: <None>

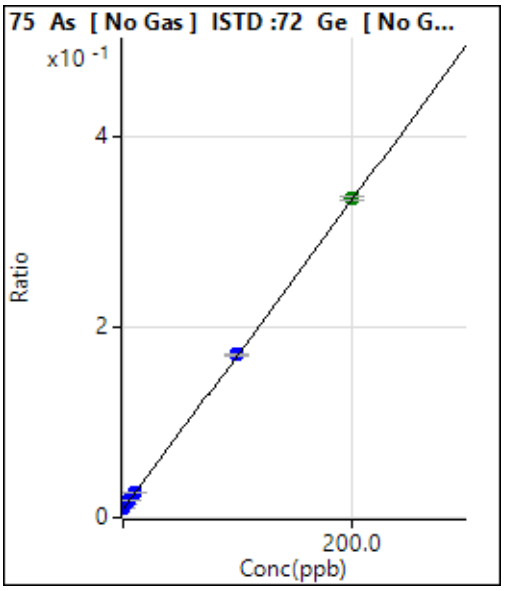


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	943.39	0.0008	P	8.6	
2	☐	2.000	2.445	6494.97	0.0056	P	5.6	22.3
3	☐	5.000	5.185	12589.39	0.0109	P	5.8	3.7
4	☐	10.000	10.236	23533.84	0.0207	P	2.4	2.4
5	☐	100.000	101.026	220719.51	0.1968	P	0.7	1.0
6	☐	200.000	199.466	425720.44	0.3877	P	1.7	-0.3

y = 0.0019 * x + 8.1072E-004
R = 1.0000
DL = 0.1075 ppb
BEC = 0.418 ppb

Weight: <None>
Min Conc: <None>

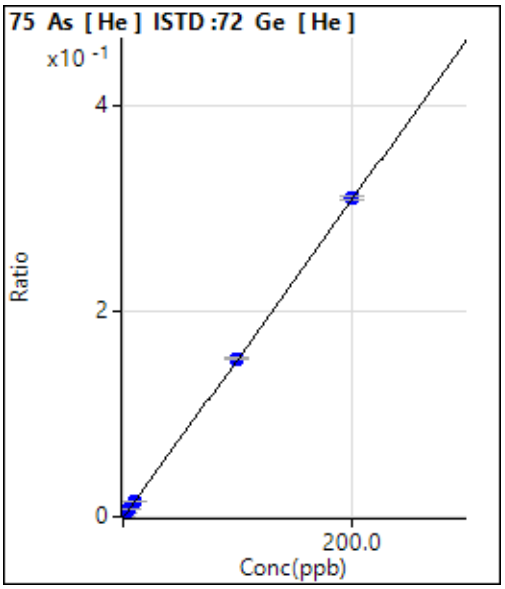
Calibration for 123_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	42061.77	0.0103	P	1.2	
2	☐	2.000	1.844	54502.39	0.0133	P	1.8	-7.8
3	☐	5.000	4.928	74412.41	0.0183	P	1.9	-1.4
4	☐	10.000	10.132	107748.90	0.0267	P	2.3	1.3
5	☐	100.000	99.327	668667.49	0.1712	P	1.4	-0.7
6	☐	200.000	200.333	1290763.26	0.3348	A	1.6	0.2

y = 0.0016 * x + 0.0103
R = 1.0000
DL = 0.2216 ppb
BEC = 6.366 ppb

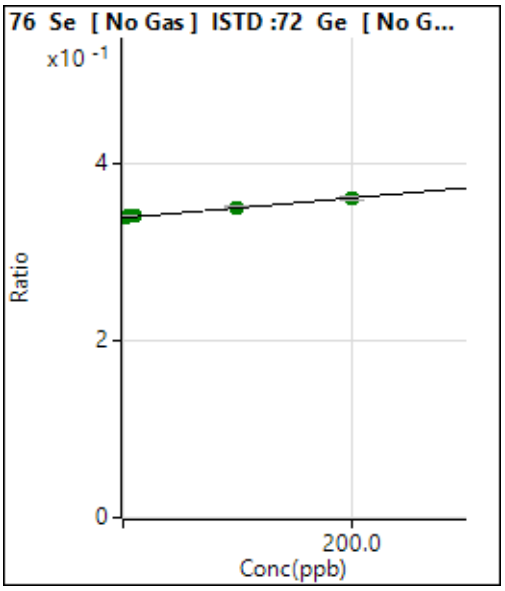
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	345.56	0.0003	P	1.2	
2	☐	2.000	1.877	3747.20	0.0032	P	1.4	-6.2
3	☐	5.000	4.902	9141.98	0.0079	P	3.0	-2.0
4	☐	10.000	9.915	17827.23	0.0157	P	2.1	-0.9
5	☐	100.000	99.344	172929.96	0.1542	P	1.3	-0.7
6	☐	200.000	200.336	341030.84	0.3106	P	1.3	0.2

y = 0.0015 * x + 2.9704E-004
R = 1.0000
DL = 0.0069 ppb
BEC = 0.1918 ppb

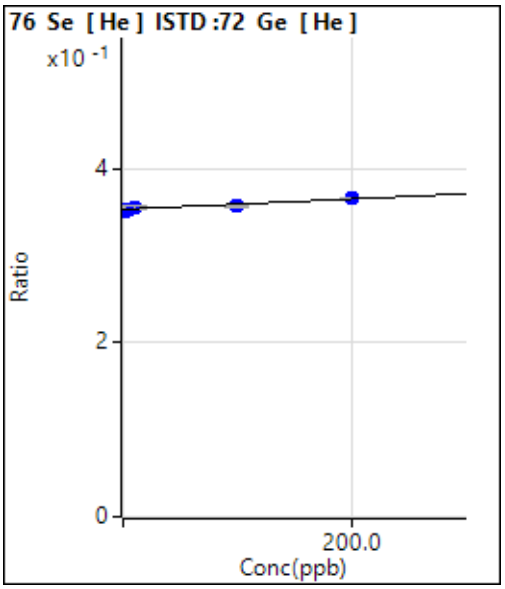
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1382797.01	0.3390	A	0.2	
2	☐	2.000	7.546	1392932.79	0.3399	A	0.6	277.3
3	☐	5.000	16.516	1386656.39	0.3409	A	0.7	230.3
4	☐	10.000	22.842	1377368.00	0.3416	A	0.5	128.4
5	☐	100.000	107.710	1371910.14	0.3513	A	0.4	7.7
6	☐	200.000	195.159	1392566.85	0.3612	A	0.8	-2.4

y = 1.1375E-004 * x + 0.3390
R = 0.9976
DL = 14.1 ppb
BEC = 2980 ppb

Weight: <None>
Min Conc: <None>

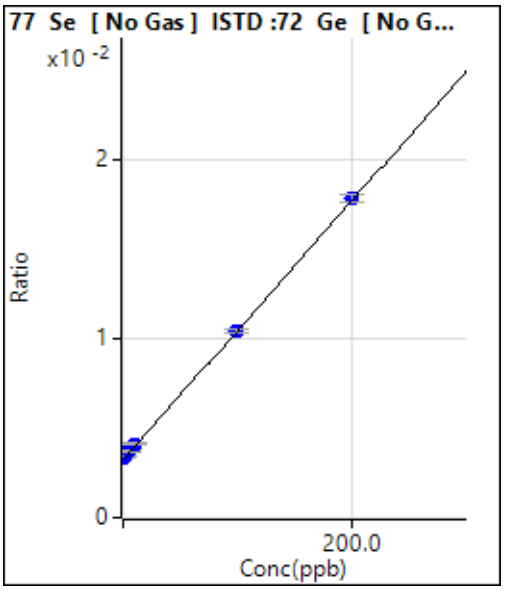


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	410886.54	0.3532	P	0.6	
2	☐	2.000	-30.509	410981.36	0.3514	P	0.5	-1625.4
3	☐	5.000	6.630	409698.93	0.3536	P	0.5	32.6
4	☐	10.000	37.447	404724.50	0.3554	P	1.2	274.5
5	☐	100.000	63.444	400470.54	0.3570	P	0.8	-36.6
6	☐	200.000	217.190	402112.69	0.3662	P	0.6	8.6

y = 6.0005E-005 * x + 0.3532
R = 0.9567
DL = 114.1 ppb
BEC = 5886 ppb

Weight: <None>
Min Conc: <None>

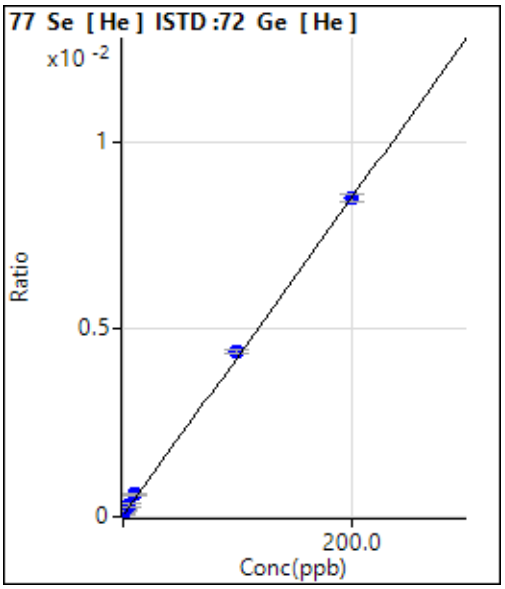
Calibration for 123_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	13620.34	0.0033	P	3.1	
2	☐	2.000	1.476	14124.23	0.0034	P	1.5	-26.2
3	☐	5.000	5.362	15162.02	0.0037	P	4.1	7.2
4	☐	10.000	10.741	16600.31	0.0041	P	2.7	7.4
5	☐	100.000	98.052	40764.54	0.0104	P	1.3	-1.9
6	☐	200.000	200.933	68940.67	0.0179	P	2.8	0.5

y = 7.2386E-005 * x + 0.0033
R = 0.9999
DL = 4.245 ppb
BEC = 46.14 ppb

Weight: <None>
Min Conc: <None>

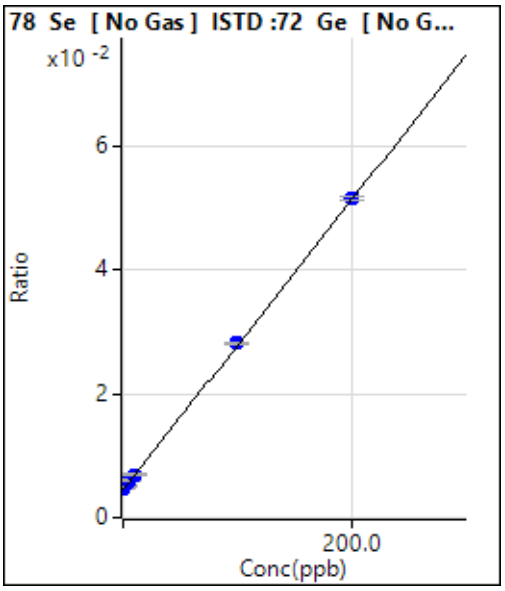


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	90.00	0.0001	P	33.8	
2	☐	2.000	2.683	223.34	0.0002	P	18.6	34.2
3	☐	5.000	5.579	363.35	0.0003	P	25.2	11.6
4	☐	10.000	12.209	676.70	0.0006	P	7.8	22.1
5	☐	100.000	102.033	4934.31	0.0044	P	1.4	2.0
6	☐	200.000	198.852	9333.38	0.0085	P	2.9	-0.6

y = 4.2351E-005 * x + 7.7431E-005
R = 0.9999
DL = 1.854 ppb
BEC = 1.828 ppb

Weight: <None>
Min Conc: <None>

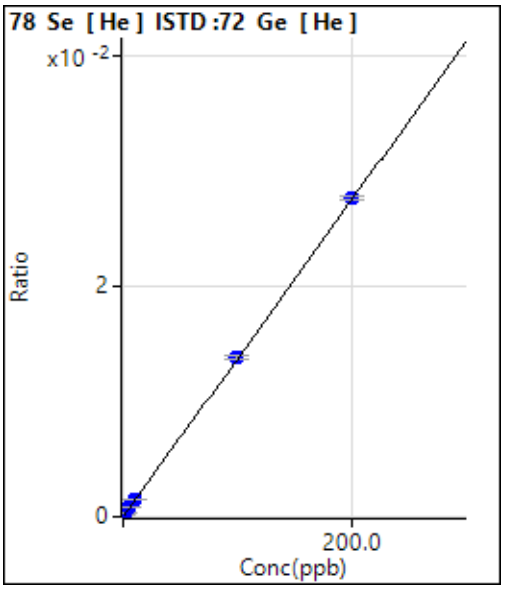
Calibration for 123_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	19400.68	0.0048	P	1.7	
2	☐	2.000	1.841	21260.28	0.0052	P	2.2	-7.9
3	☐	5.000	5.386	24478.98	0.0060	P	2.5	7.7
4	☐	10.000	9.504	28156.05	0.0070	P	1.9	-5.0
5	☐	100.000	99.882	109978.08	0.0282	P	1.7	-0.1
6	☐	200.000	200.076	199052.68	0.0516	P	1.2	0.0

y = 2.3430E-004 * x + 0.0048
R = 1.0000
DL = 1.022 ppb
BEC = 20.3 ppb

Weight: <None>
Min Conc: <None>

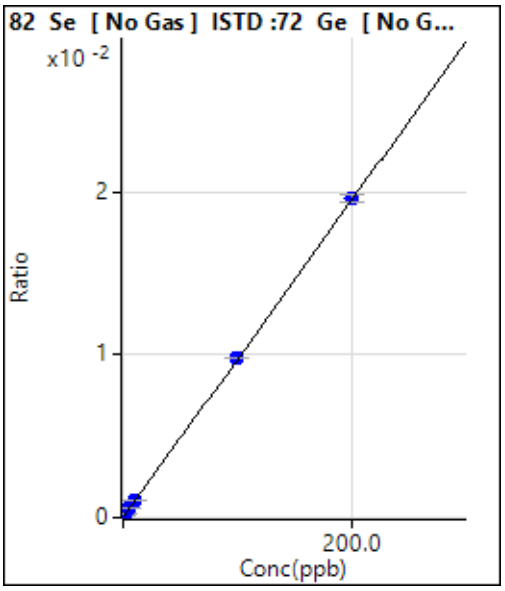


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	153.33	0.0001	P	3.7	
2	☐	2.000	1.892	458.01	0.0004	P	11.0	-5.4
3	☐	5.000	5.225	984.04	0.0008	P	6.2	4.5
4	☐	10.000	9.775	1678.78	0.0015	P	1.1	-2.3
5	☐	100.000	99.540	15483.46	0.0138	P	2.3	-0.5
6	☐	200.000	200.237	30342.99	0.0276	P	1.7	0.1

y = 1.3734E-004 * x + 1.3179E-004
R = 1.0000
DL = 0.1055 ppb
BEC = 0.9596 ppb

Weight: <None>
Min Conc: <None>

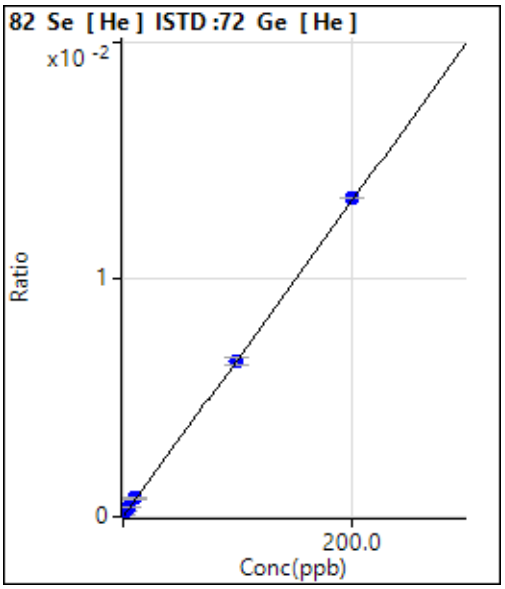
Calibration for 123_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	440.01	0.0001	P	4.8	
2	☐	2.000	1.782	1153.40	0.0003	P	9.6	-10.9
3	☐	5.000	5.173	2486.94	0.0006	P	6.5	3.5
4	☐	10.000	10.120	4407.46	0.0011	P	4.1	1.2
5	☐	100.000	99.557	38274.21	0.0098	P	1.0	-0.4
6	☐	200.000	200.214	75553.20	0.0196	P	2.4	0.1

y = 9.7352E-005 * x + 1.0789E-004
R = 1.0000
DL = 0.1583 ppb
BEC = 1.108 ppb

Weight: <None>
Min Conc: <None>

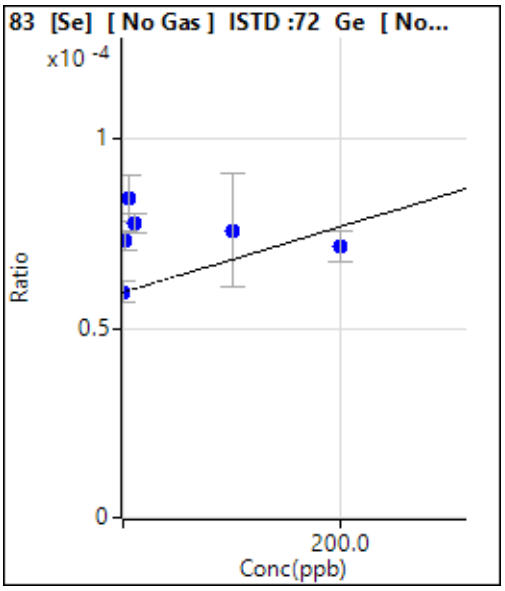


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	76.67	0.0001	P	8.0	
2	☐	2.000	2.568	276.68	0.0002	P	13.5	28.4
3	☐	5.000	4.939	456.69	0.0004	P	7.8	-1.2
4	☐	10.000	10.776	890.04	0.0008	P	4.9	7.8
5	☐	100.000	97.662	7352.12	0.0066	P	3.8	-2.3
6	☐	200.000	201.126	14744.90	0.0134	P	0.1	0.6

y = 6.6438E-005 * x + 6.5918E-005
R = 0.9999
DL = 0.2387 ppb
BEC = 0.9922 ppb

Weight: <None>
Min Conc: <None>

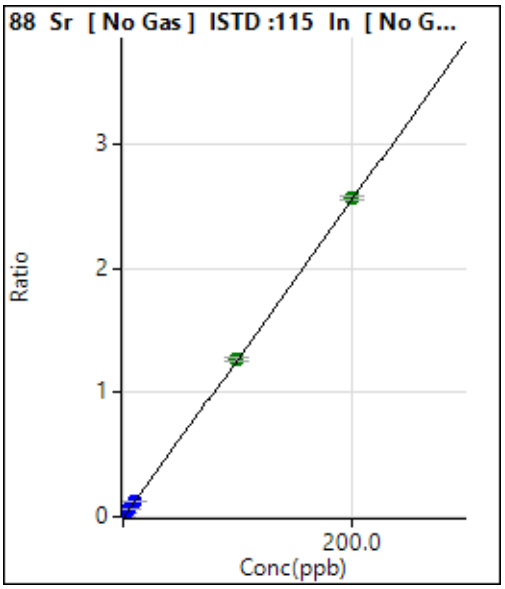
Calibration for 123_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	243.34	0.0001	P	9.0	
2	☐	2.000	155.471	300.01	0.0001	P	6.4	7673.6
3	☐	5.000	283.571	343.34	0.0001	P	14.4	5571.4
4	☐	10.000	206.868	313.34	0.0001	P	6.5	1968.7
5	☐	100.000	186.831	296.68	0.0001	P	39.1	86.8
6	☐	200.000	138.242	276.68	0.0001	P	10.8	-30.9

y = 8.7337E-008 * x + 5.9645E-005
R = -0.0305
DL = 185.1 ppb
BEC = 682.9 ppb

Weight: <None>
Min Conc: <None>

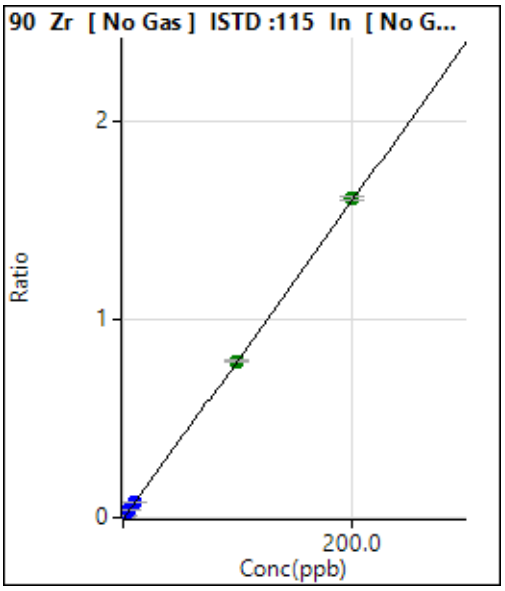


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3443.83	0.0007	P	3.3	
2	☐	2.000	1.949	131827.46	0.0257	P	1.2	-2.5
3	☐	5.000	4.810	320927.11	0.0623	P	1.5	-3.8
4	☐	10.000	9.718	641791.93	0.1253	P	1.2	-2.8
5	☐	100.000	99.087	6355008.03	1.2711	A	1.6	-0.9
6	☐	200.000	200.476	12478416.90	2.5710	A	1.8	0.2

y = 0.0128 * x + 6.6940E-004
R = 1.0000
DL = 0.005164 ppb
BEC = 0.05221 ppb

Weight: <None>
Min Conc: <None>

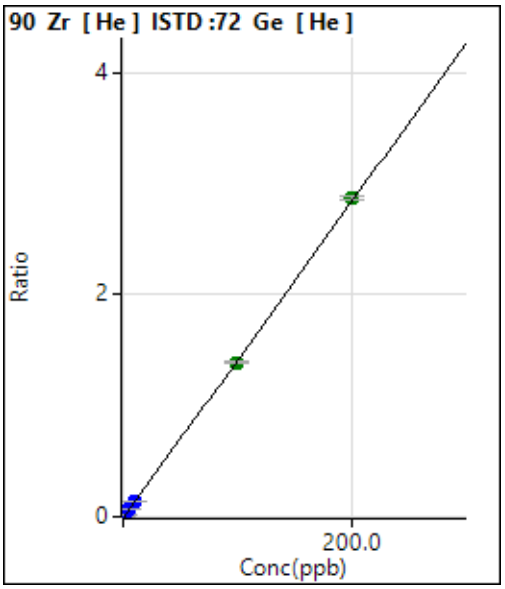
Calibration for 123_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1310.09	0.0003	P	4.3	
2	☐	2.000	1.668	69980.91	0.0136	P	0.7	-16.6
3	☐	5.000	4.367	181449.79	0.0352	P	1.6	-12.7
4	☐	10.000	9.208	379299.12	0.0740	P	0.3	-7.9
5	☐	100.000	98.197	3934941.40	0.7870	A	1.3	-1.8
6	☐	200.000	200.960	7816321.76	1.6104	A	1.5	0.5

y = 0.0080 * x + 2.5467E-004
R = 0.9999
DL = 0.004084 ppb
BEC = 0.03178 ppb

Weight: <None>
Min Conc: <None>

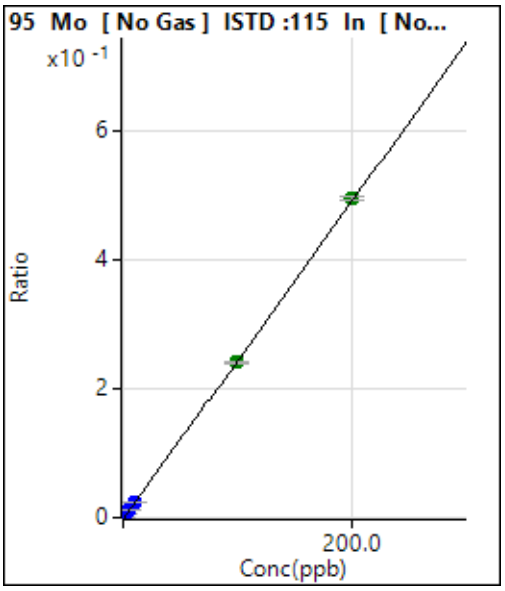


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1793.49	0.0015	P	9.9	
2	☐	2.000	1.582	28153.13	0.0241	P	2.2	-20.9
3	☐	5.000	4.293	72628.27	0.0627	P	3.5	-14.1
4	☐	10.000	9.248	151728.95	0.1332	P	1.5	-7.5
5	☐	100.000	97.451	1558273.26	1.3891	A	2.0	-2.5
6	☐	200.000	201.334	3149651.93	2.8683	A	1.6	0.7

y = 0.0142 * x + 0.0015
R = 0.9999
DL = 0.03205 ppb
BEC = 0.1083 ppb

Weight: <None>
Min Conc: <None>

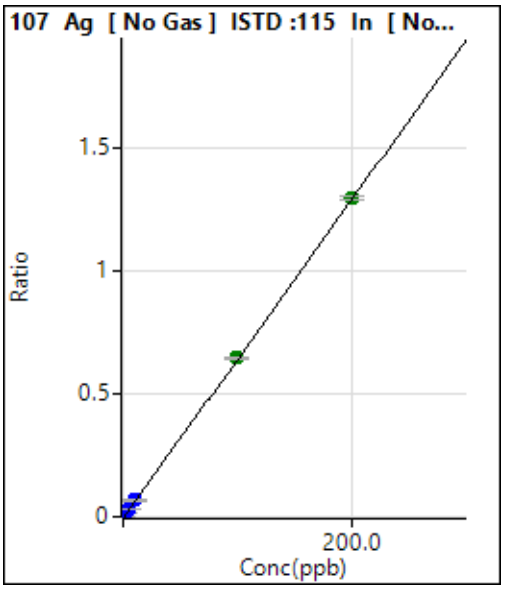
Calibration for 123_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	190.00	0.0000	P	14.1	
2	☐	2.000	1.963	25043.84	0.0049	P	4.6	-1.9
3	☐	5.000	4.863	61895.32	0.0120	P	1.9	-2.7
4	☐	10.000	9.786	123764.89	0.0242	P	0.4	-2.1
5	☐	100.000	97.785	1205195.30	0.2410	A	1.6	-2.2
6	☐	200.000	201.122	2406098.45	0.4957	A	1.3	0.6

y = 0.0025 * x + 3.6939E-005
R = 0.9999
DL = 0.006329 ppb
BEC = 0.01499 ppb

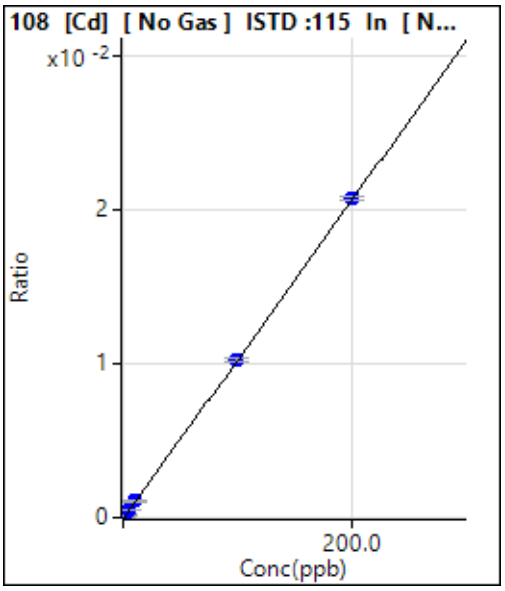
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1130.07	0.0002	P	6.4	
2	☐	2.000	2.055	69617.39	0.0135	P	2.1	2.8
3	☐	5.000	5.082	170821.07	0.0332	P	2.2	1.6
4	☐	10.000	10.252	341807.09	0.0667	P	1.1	2.5
5	☐	100.000	99.713	3234625.68	0.6470	A	1.8	-0.3
6	☐	200.000	200.128	6301259.49	1.2983	A	1.6	0.1

y = 0.0065 * x + 2.1968E-004
R = 1.0000
DL = 0.006466 ppb
BEC = 0.03387 ppb

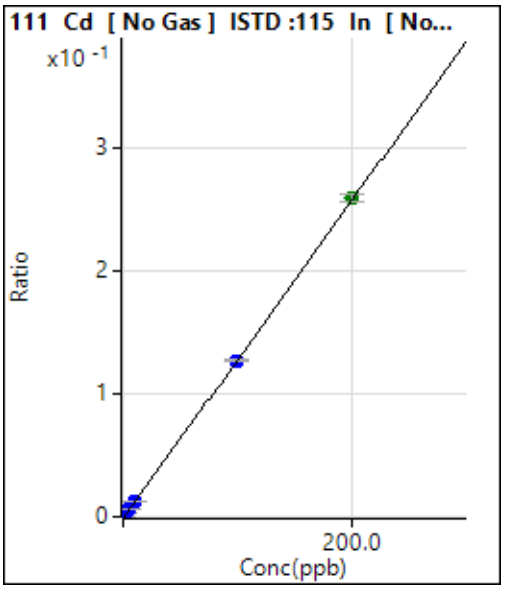
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	20.00	0.0000	P	86.6	
2	☐	2.000	1.851	1003.39	0.0002	P	9.5	-7.5
3	☐	5.000	4.555	2443.59	0.0005	P	5.0	-8.9
4	☐	10.000	10.261	5454.56	0.0011	P	5.1	2.6
5	☐	100.000	99.244	51312.02	0.0103	P	2.7	-0.8
6	☐	200.000	200.378	100553.55	0.0207	P	1.8	0.2

y = 1.0337E-004 * x + 3.8826E-006
R = 1.0000
DL = 0.09758 ppb
BEC = 0.03756 ppb

Weight: <None>
Min Conc: <None>

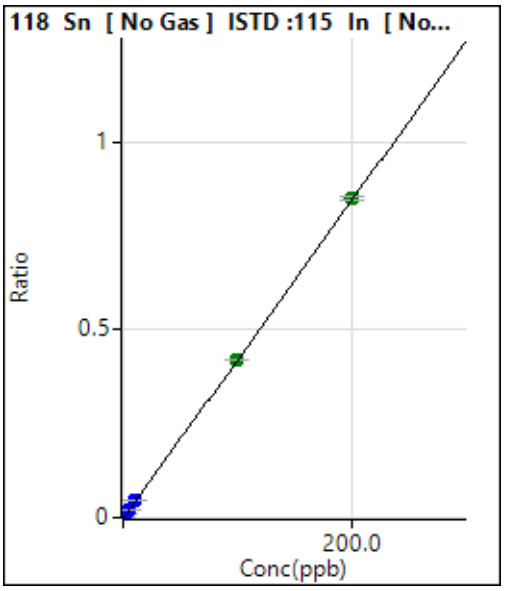


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1.87	0.0000	P	1877.	
2	☐	2.000	2.067	13751.81	0.0027	P	2.3	3.3
3	☐	5.000	4.975	33166.39	0.0064	P	2.7	-0.5
4	☐	10.000	9.969	66141.43	0.0129	P	1.3	-0.3
5	☐	100.000	98.429	637239.95	0.1275	P	2.1	-1.6
6	☐	200.000	200.787	1261910.71	0.2600	A	2.1	0.4

y = 0.0013 * x + 3.7572E-007
R = 1.0000
DL = 0.01634 ppb
BEC = 0.0002902 ppb

Weight: <None>
Min Conc: <None>

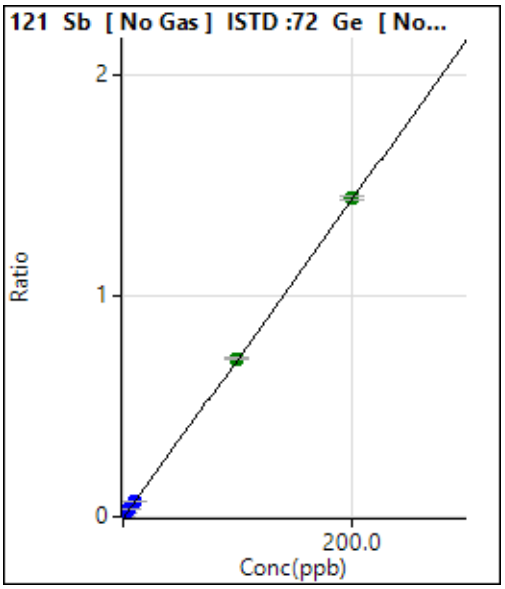
Calibration for 123_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6481.70	0.0013	P	3.9	
2	☐	2.000	2.034	50780.98	0.0099	P	1.8	1.7
3	☐	5.000	4.924	113983.02	0.0221	P	1.3	-1.5
4	☐	10.000	10.016	224036.87	0.0437	P	0.4	0.2
5	☐	100.000	99.133	2107880.75	0.4216	A	0.5	-0.9
6	☐	200.000	200.434	4131092.85	0.8511	A	1.0	0.2

y = 0.0042 * x + 0.0013
R = 1.0000
DL = 0.03505 ppb
BEC = 0.2971 ppb

Weight: <None>
Min Conc: <None>

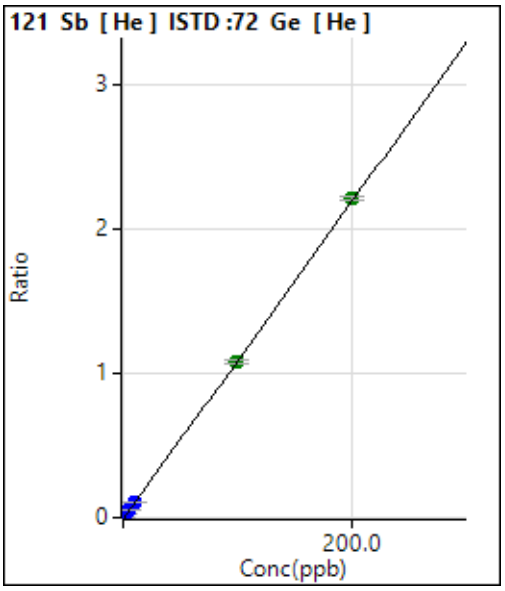


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	596.69	0.0001	P	5.4	
2	☐	2.000	2.025	60330.69	0.0147	P	3.0	1.2
3	☐	5.000	5.016	147472.58	0.0363	P	0.7	0.3
4	☐	10.000	10.057	292505.77	0.0725	P	1.5	0.6
5	☐	100.000	99.225	2790506.63	0.7145	A	1.2	-0.8
6	☐	200.000	200.384	5562198.46	1.4428	A	1.3	0.2

y = 0.0072 * x + 1.4629E-004
R = 1.0000
DL = 0.0033 ppb
BEC = 0.02032 ppb

Weight: <None>
Min Conc: <None>

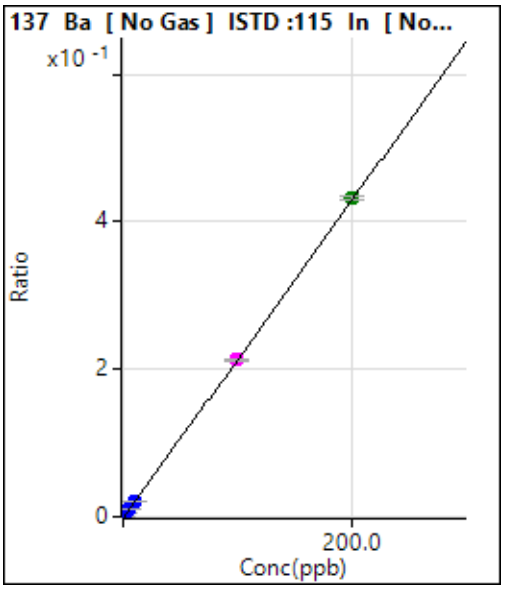
Calibration for 123_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	236.67	0.0002	P	27.7	
2	☐	2.000	1.929	25084.10	0.0214	P	2.4	-3.5
3	☐	5.000	4.803	61523.29	0.0531	P	4.6	-3.9
4	☐	10.000	9.973	125278.34	0.1100	P	1.2	-0.3
5	☐	100.000	97.652	1206188.45	1.0753	A	2.3	-2.3
6	☐	200.000	201.181	2432430.90	2.2151	A	1.6	0.6

y = 0.0110 * x + 2.0354E-004
R = 0.9999
DL = 0.01534 ppb
BEC = 0.01849 ppb

Weight: <None>
Min Conc: <None>

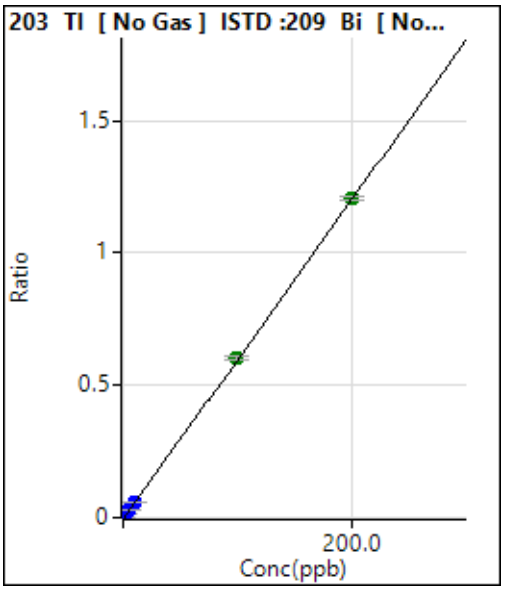


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	770.03	0.0001	P	9.7	
2	☐	2.000	2.176	24847.13	0.0048	P	2.7	8.8
3	☐	5.000	4.841	54449.82	0.0106	P	4.8	-3.2
4	☐	10.000	9.911	110132.49	0.0215	P	1.2	-0.9
5	☐	100.000	98.606	1062547.56	0.2125	M	0.9	-1.4
6	☐	200.000	200.704	2098757.68	0.4324	A	1.7	0.4

y = 0.0022 * x + 1.4967E-004
R = 1.0000
DL = 0.02027 ppb
BEC = 0.06949 ppb

Weight: <None>
Min Conc: <None>

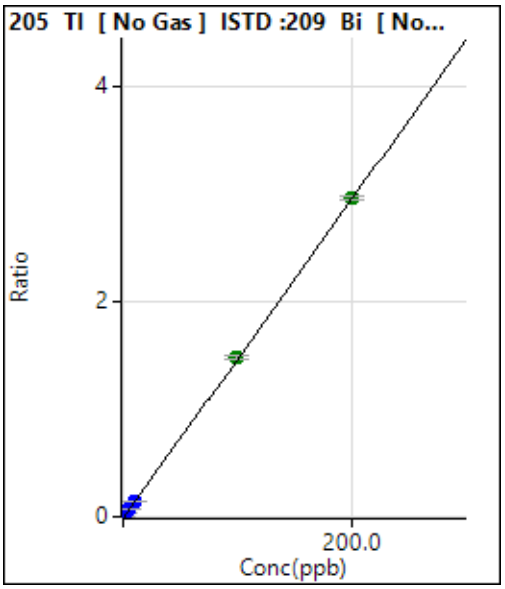
Calibration for 123_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1063.39	0.0002	P	4.7	
2	☐	2.000	1.864	56952.25	0.0115	P	0.9	-6.8
3	☐	5.000	4.855	146964.38	0.0295	P	3.0	-2.9
4	☐	10.000	9.930	303207.52	0.0602	P	1.1	-0.7
5	☐	100.000	100.133	2957484.85	0.6047	A	2.1	0.1
6	☐	200.000	199.942	5896563.24	1.2072	A	1.2	0.0

y = 0.0060 * x + 2.1508E-004
R = 1.0000
DL = 0.005027 ppb
BEC = 0.03563 ppb

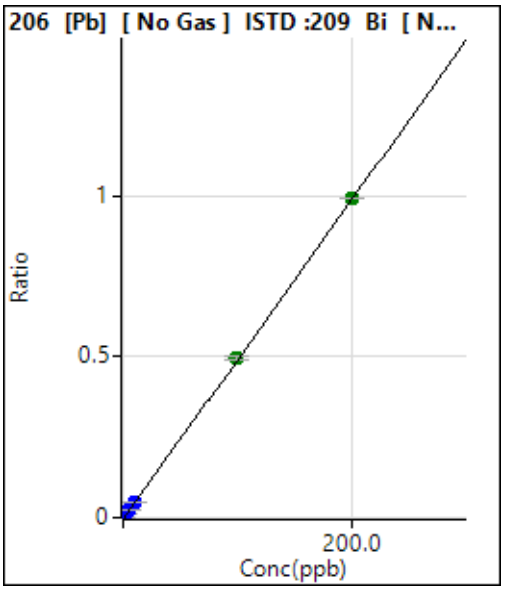
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2733.67	0.0006	P	8.7	
2	☐	2.000	1.800	135292.49	0.0272	P	3.1	-10.0
3	☐	5.000	4.693	349043.55	0.0701	P	1.7	-6.1
4	☐	10.000	9.618	721276.55	0.1431	P	1.4	-3.8
5	☐	100.000	100.235	7269242.39	1.4863	A	3.0	0.2
6	☐	200.000	199.911	14476418.54	2.9638	A	0.8	0.0

y = 0.0148 * x + 5.5313E-004
R = 1.0000
DL = 0.009768 ppb
BEC = 0.03732 ppb

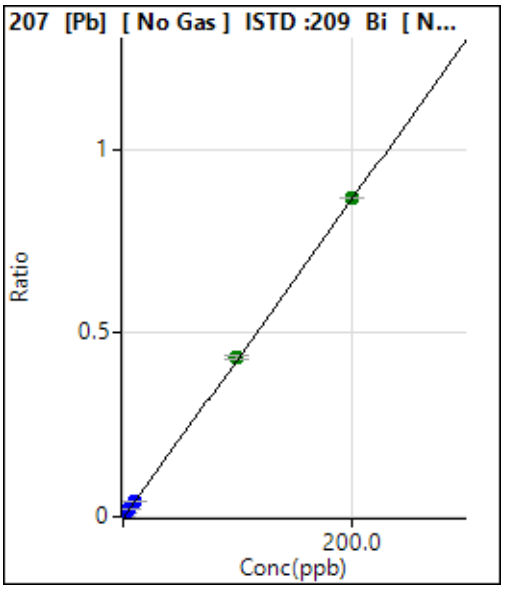
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1283.43	0.0003	P	9.3	
2	☐	2.000	2.040	51592.69	0.0104	P	0.1	2.0
3	☐	5.000	4.992	124661.17	0.0250	P	2.2	-0.2
4	☐	10.000	9.948	250236.17	0.0497	P	2.0	-0.5
5	☐	100.000	99.962	2428589.13	0.4965	A	2.4	0.0
6	☐	200.000	200.022	4851910.13	0.9933	A	0.0	0.0

y = 0.0050 * x + 2.5971E-004
R = 1.0000
DL = 0.01455 ppb
BEC = 0.05231 ppb

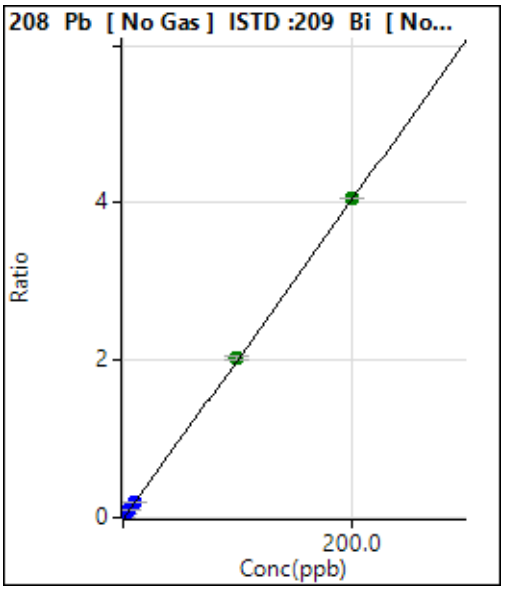
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1186.75	0.0002	P	2.8	
2	☐	2.000	1.973	43739.78	0.0088	P	4.1	-1.3
3	☐	5.000	4.929	107645.92	0.0216	P	3.2	-1.4
4	☐	10.000	9.929	218349.87	0.0433	P	1.1	-0.7
5	☐	100.000	99.842	2120187.93	0.4335	A	2.3	-0.2
6	☐	200.000	200.085	4242060.04	0.8685	A	0.3	0.0

y = 0.0043 * x + 2.4000E-004
R = 1.0000
DL = 0.004669 ppb
BEC = 0.05531 ppb

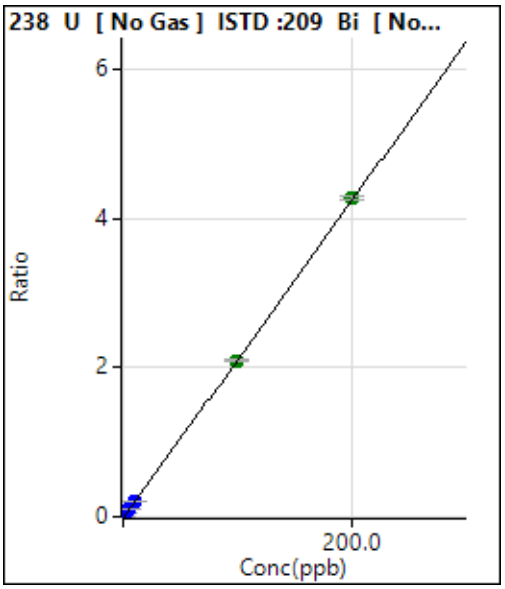
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5470.59	0.0011	P	3.2	
2	☐	2.000	1.953	202278.69	0.0407	P	2.0	-2.3
3	☐	5.000	4.833	493260.76	0.0991	P	1.5	-3.3
4	☐	10.000	9.730	999973.48	0.1984	P	1.6	-2.7
5	☐	100.000	99.663	9889606.15	2.0220	A	2.0	-0.3
6	☐	200.000	200.187	19833060.43	4.0603	A	0.6	0.1

y = 0.0203 * x + 0.0011
R = 1.0000
DL = 0.005191 ppb
BEC = 0.05457 ppb

Weight: <None>
Min Conc: <None>

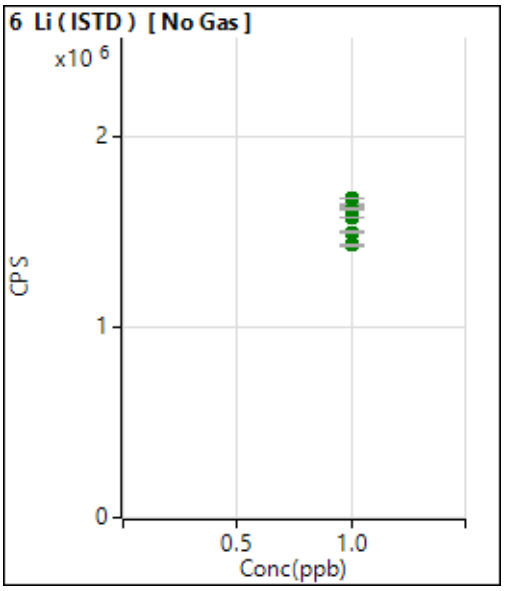


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3840.69	0.0008	P	2.4	
2	☐	2.000	1.852	199597.32	0.0402	P	1.2	-7.4
3	☐	5.000	4.633	494594.50	0.0994	P	0.6	-7.3
4	☐	10.000	9.370	1008708.24	0.2001	P	1.3	-6.3
5	☐	100.000	98.429	10247644.64	2.0951	A	1.7	-1.6
6	☐	200.000	200.828	20877186.77	4.2740	A	1.5	0.4

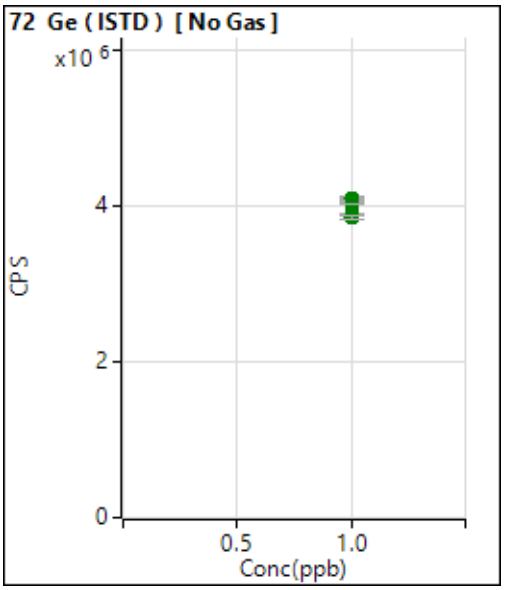
y = 0.0213 * x + 7.7664E-004
R = 1.0000
DL = 0.002649 ppb
BEC = 0.0365 ppb

Weight: <None>
Min Conc: <None>

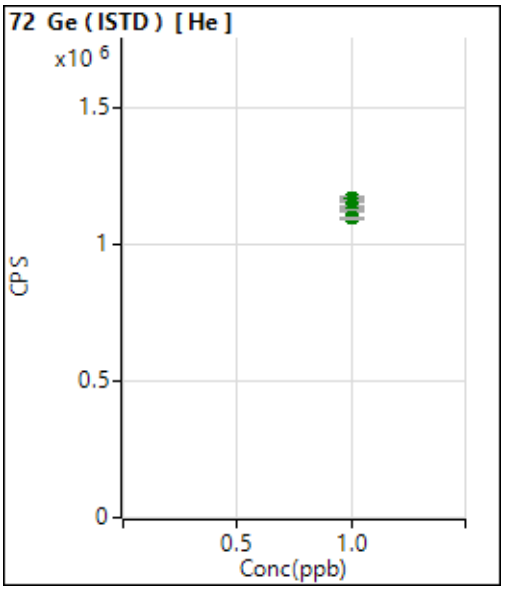
Calibration for 123_ICV.d



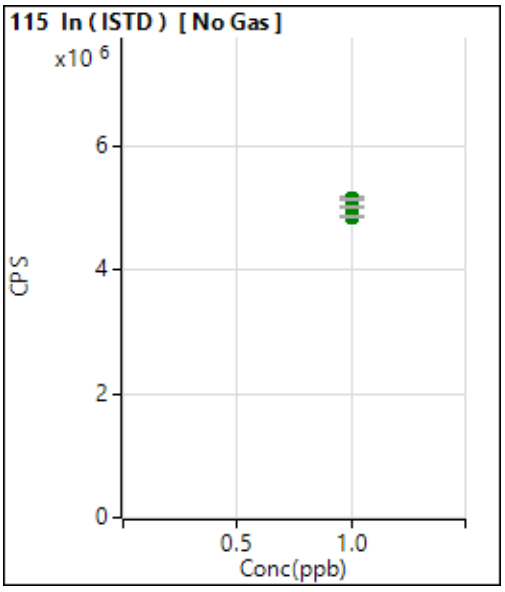
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1676118.60		A	0.5	
2	☐	1.000		1639782.03		A	0.4	
3	☐	1.000		1617926.82		A	0.3	
4	☐	1.000		1575065.32		A	0.6	
5	☐	1.000		1497357.81		A	0.5	
6	☐	1.000		1429491.40		A	0.9	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4078799.42		A	0.6	
2	☐	1.000		4098266.40		A	0.7	
3	☐	1.000		4067729.52		A	0.7	
4	☐	1.000		4031887.75		A	0.2	
5	☐	1.000		3905522.13		A	0.4	
6	☐	1.000		3855346.19		A	0.9	

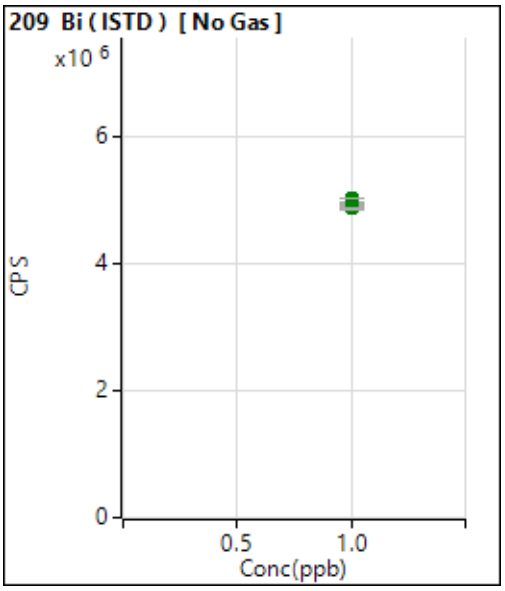


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1163380.53		A	0.6	
2	☐	1.000		1169709.75		A	0.6	
3	☐	1.000		1158721.52		A	0.7	
4	☐	1.000		1138781.05		A	1.1	
5	☐	1.000		1121782.67		A	0.7	
6	☐	1.000		1098050.29		A	0.7	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		5144582.62		A	0.2	
2	☐	1.000		5137782.22		A	0.6	
3	☐	1.000		5148852.71		A	1.1	
4	☐	1.000		5123281.63		A	0.7	
5	☐	1.000		4999629.60		A	0.6	
6	☐	1.000		4853657.02		A	0.2	

Calibration for 123_ICV.d



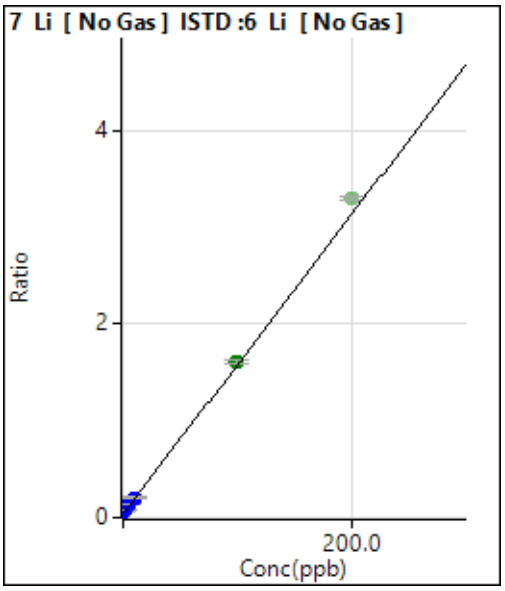
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4944445.55		A	1.4	
2	☐	1.000		4967616.70		A	1.0	
3	☐	1.000		4977585.03		A	0.1	
4	☐	1.000		5040043.05		A	0.3	
5	☐	1.000		4891836.59		A	1.2	
6	☐	1.000		4884540.86		A	0.8	

Calibration for 019_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\062524A.b\
Analysis File: 062524A.batch.bin
DA Date-Time: 6/26/2024 8:26:09 AM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	010CALB.d	CAL BLK	6/25/2024 10:33:10 AM
2	011CALS.d	2/10/200	6/25/2024 10:35:53 AM
3	012CALS.d	5/25/500	6/25/2024 10:38:34 AM
4	013CALS.d	10/50/100	6/25/2024 10:41:15 AM
5	017CALS.d	100/500/10K	6/25/2024 10:54:32 AM
6	015CALS.d	200/1000/20K	6/25/2024 10:46:33 AM

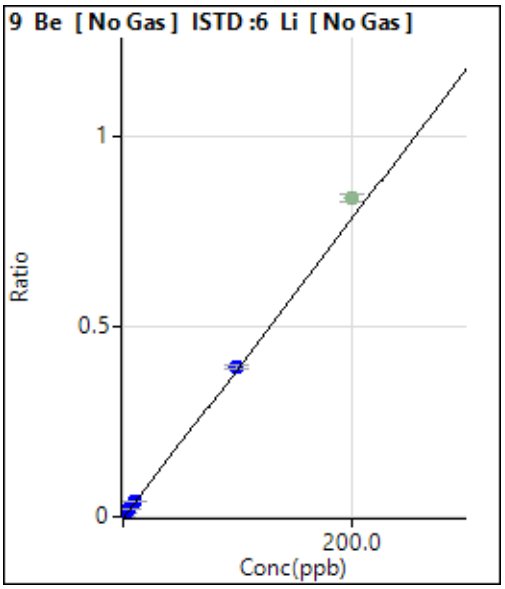
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	95109.43	0.0556	P	0.2	
2	☐	2.000	1.920	146884.63	0.0853	P	1.6	-4.0
3	☐	5.000	4.841	218591.44	0.1304	P	1.3	-3.2
4	☐	10.000	9.815	340796.34	0.2073	P	1.2	-1.9
5	☐	100.000	100.028	2490753.19	1.6010	A	2.6	0.0
6	☑	200.000		4828676.80	3.2967	A	1.3	

y = 0.0154 * x + 0.0556
R = 1.0000
DL = 0.02597 ppb
BEC = 3.6 ppb

Weight: <None>
Min Conc: <None>

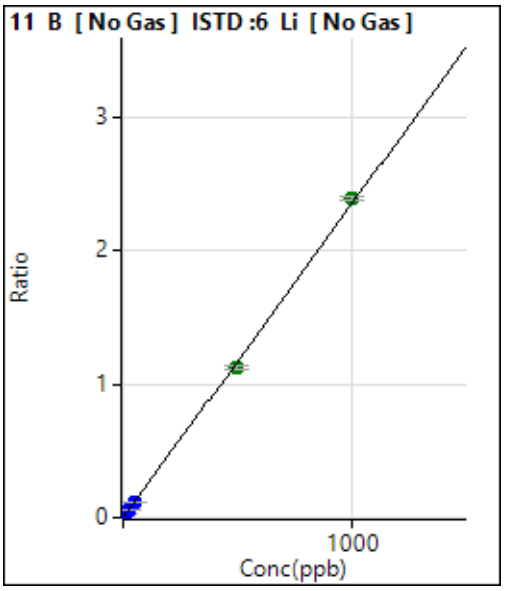


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	370.01	0.0002	P	5.8	
2	☐	2.000	1.913	13332.98	0.0077	P	2.5	-4.3
3	☐	5.000	4.795	31982.57	0.0191	P	2.3	-4.1
4	☐	10.000	9.736	63339.98	0.0385	P	1.5	-2.6
5	☐	100.000	100.038	612588.03	0.3938	P	2.9	0.0
6	☑	200.000		1228024.38	0.8384	A	2.0	

y = 0.0039 * x + 2.1639E-004
R = 1.0000
DL = 0.009619 ppb
BEC = 0.055 ppb

Weight: <None>
Min Conc: <None>

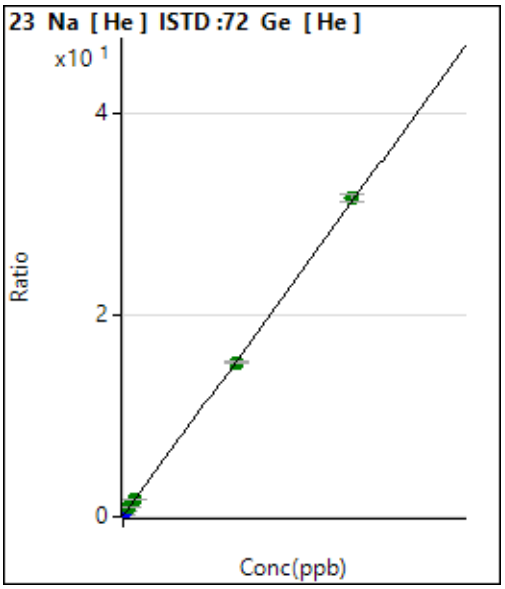
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	19585.24	0.0115	P	1.0	
2	☐	10.000	8.404	53786.34	0.0312	P	2.6	-16.0
3	☐	25.000	22.147	106565.72	0.0636	P	0.9	-11.4
4	☐	50.000	46.381	198326.89	0.1206	P	2.3	-7.2
5	☐	500.000	473.544	1751959.19	1.1260	A	1.6	-5.3
6	☐	1000.000	1013.496	3510760.36	2.3969	A	1.3	1.3

y = 0.0024 * x + 0.0115
R = 0.9995
DL = 0.1393 ppb
BEC = 4.866 ppb

Weight: <None>
Min Conc: <None>

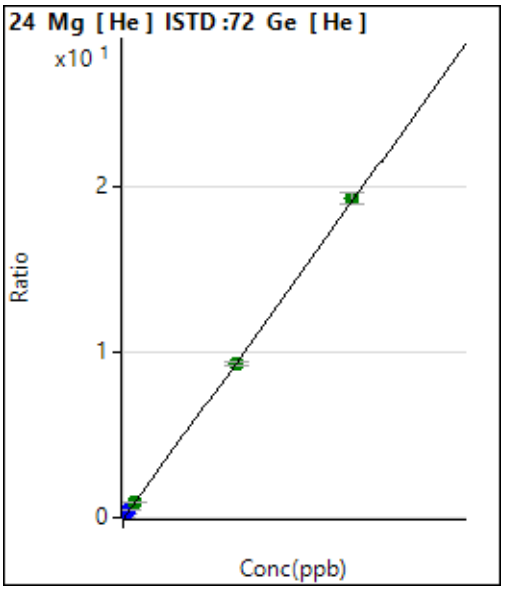


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	288606.42	0.2451	P	1.4	
2	☐	200.000	177.589	622281.82	0.5213	P	1.0	-11.2
3	☐	500.000	473.179	1151604.43	0.9810	A	1.8	-5.4
4	☐	1000.000	977.456	2041607.21	1.7652	A	1.2	-2.3
5	☐	10000.00	9676.744	17407033.07	15.2937	A	1.6	-3.2
6	☐	20000.00	20163.65	3504496448	31.6022	A	2.8	0.8

y = 0.0016 * x + 0.2451
R = 0.9998
DL = 6.411 ppb
BEC = 157.6 ppb

Weight: <None>
Min Conc: <None>

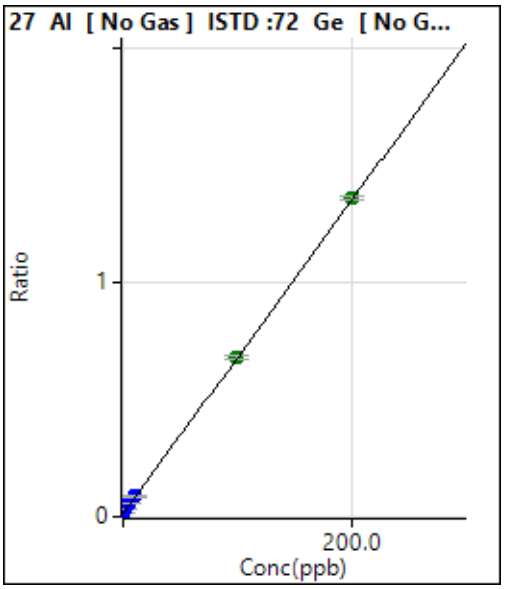
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2800.34	0.0024	P	2.9	
2	☐	200.000	188.332	218868.20	0.1833	P	2.1	-5.8
3	☐	500.000	476.135	539864.42	0.4598	P	1.8	-4.8
4	☐	1000.000	980.631	1092519.88	0.9446	A	1.5	-1.9
5	☐	10000.00	9714.978	10626664.43	9.3364	A	1.8	-2.9
6	☐	20000.00	20144.19	21464943.01	19.3567	A	3.2	0.7

y = 9.6079E-004 * x + 0.0024
R = 0.9999
DL = 0.2145 ppb
BEC = 2.475 ppb

Weight: <None>
Min Conc: <None>

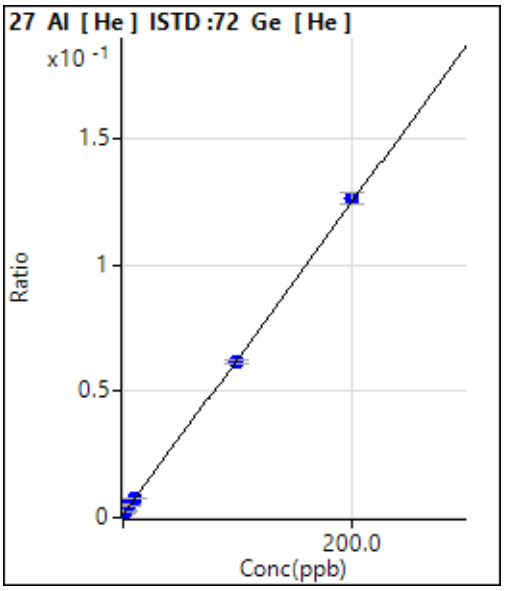


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	79772.13	0.0192	P	2.2	
2	☐	2.000	1.525	123569.26	0.0294	P	2.4	-23.8
3	☐	5.000	5.524	232171.49	0.0562	P	7.8	10.5
4	☐	10.000	10.174	358454.78	0.0874	P	2.6	1.7
5	☐	100.000	98.905	2713647.56	0.6822	A	1.7	-1.1
6	☐	200.000	200.531	5281947.84	1.3634	A	1.7	0.3

y = 0.0067 * x + 0.0192
R = 1.0000
DL = 0.1901 ppb
BEC = 2.859 ppb

Weight: <None>
Min Conc: <None>

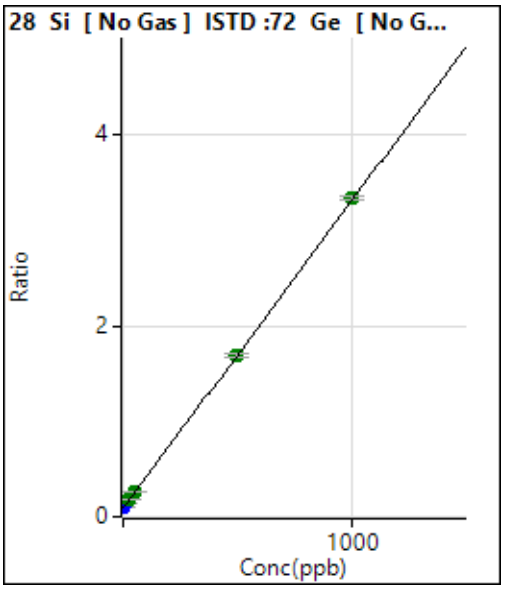
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2066.86	0.0018	P	3.4	
2	☐	2.000	1.406	3137.07	0.0026	P	7.0	-29.7
3	☐	5.000	5.203	5844.66	0.0050	P	1.6	4.1
4	☐	10.000	9.473	8816.28	0.0076	P	5.9	-5.3
5	☐	100.000	96.780	70231.85	0.0617	P	3.0	-3.2
6	☐	200.000	201.637	140454.75	0.1267	P	3.5	0.8

y = 6.1944E-004 * x + 0.0018
R = 0.9998
DL = 0.2864 ppb
BEC = 2.834 ppb

Weight: <None>
Min Conc: <None>

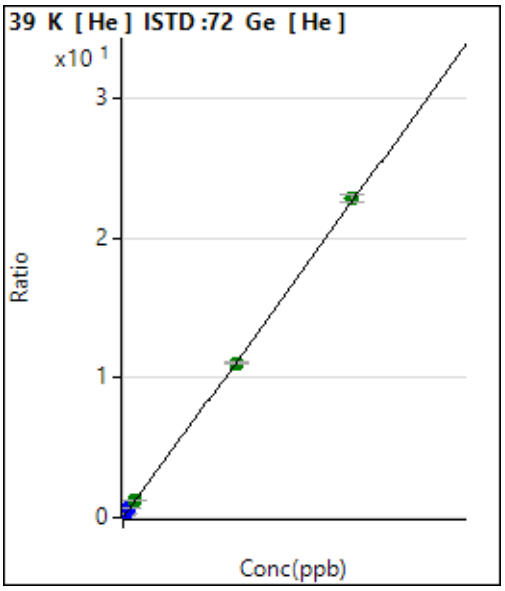


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	438318.65	0.1053	P	0.4	
2	☐	10.000	9.287	568752.14	0.1353	P	0.2	-7.1
3	☐	25.000	24.351	759668.97	0.1839	A	0.1	-2.6
4	☐	50.000	49.749	1090527.61	0.2658	A	1.3	-0.5
5	☐	500.000	492.180	6734428.23	1.6930	A	1.8	-1.6
6	☐	1000.000	1003.946	12953963.98	3.3438	A	1.5	0.4

y = 0.0032 * x + 0.1053
R = 1.0000
DL = 0.4316 ppb
BEC = 32.65 ppb

Weight: <None>
Min Conc: <None>

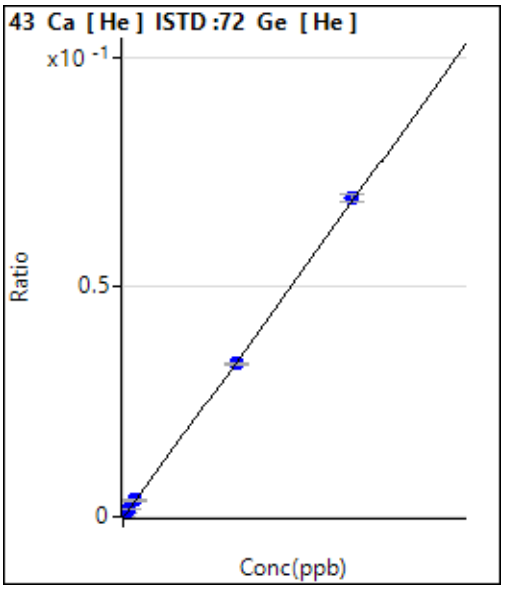
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	119097.76	0.1011	P	0.3	
2	☐	200.000	186.455	372135.50	0.3117	P	0.3	-6.8
3	☐	500.000	475.349	748983.87	0.6380	P	1.9	-4.9
4	☐	1000.000	982.636	1400574.72	1.2109	A	1.3	-1.7
5	☐	10000.00	9705.924	12591435.65	11.0629	A	1.7	-2.9
6	☐	20000.00	20148.65	25347163.79	22.8567	A	2.3	0.7

y = 0.0011 * x + 0.1011
R = 0.9999
DL = 0.6747 ppb
BEC = 89.55 ppb

Weight: <None>
Min Conc: <None>

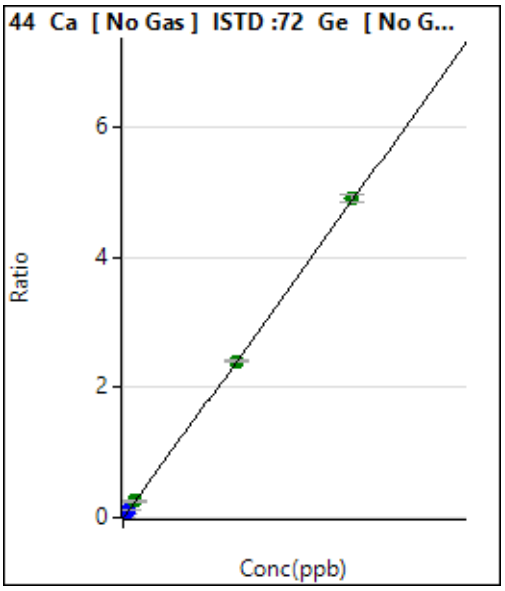


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	53.33	0.0000	P	44.0	
2	☐	200.000	220.012	956.72	0.0008	P	6.9	10.0
3	☐	500.000	475.202	1970.17	0.0017	P	1.5	-5.0
4	☐	1000.000	1040.743	4187.37	0.0036	P	5.6	4.1
5	☐	10000.00	9668.254	37855.14	0.0333	P	1.7	-3.3
6	☐	20000.00	20164.25	76871.75	0.0693	P	2.5	0.8

y = 3.4355E-006 * x + 4.5378E-005
R = 0.9998
DL = 17.45 ppb
BEC = 13.21 ppb

Weight: <None>
Min Conc: <None>

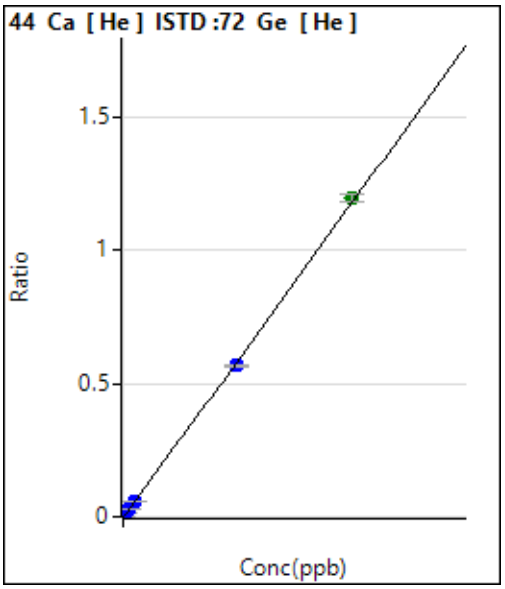
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	54075.33	0.0130	P	1.7	
2	☐	200.000	198.146	257829.67	0.0613	P	1.6	-0.9
3	☐	500.000	486.430	543875.83	0.1316	P	2.3	-2.7
4	☐	1000.000	981.332	1035362.72	0.2524	A	1.5	-1.9
5	☐	10000.00	9825.374	9584837.57	2.4095	A	2.1	-1.7
6	☐	20000.00	20088.60	19032093.05	4.9128	A	2.3	0.4

y = 2.4391E-004 * x + 0.0130
R = 0.9999
DL = 2.69 ppb
BEC = 53.27 ppb

Weight: <None>
Min Conc: <None>

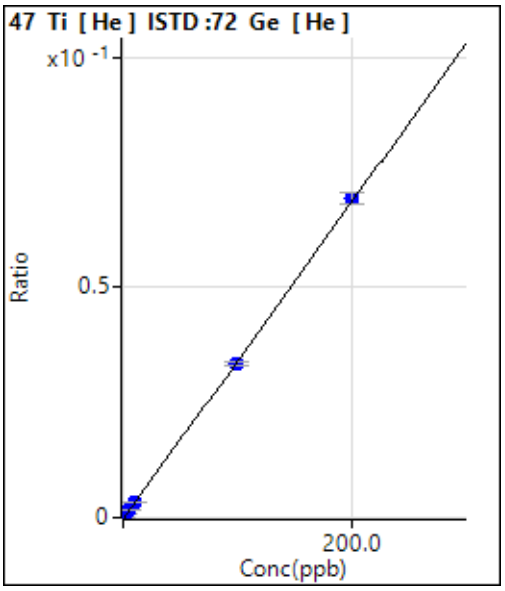


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1370.09	0.0012	P	15.2	
2	☐	200.000	193.959	15048.30	0.0126	P	2.3	-3.0
3	☐	500.000	468.624	33828.14	0.0288	P	1.5	-6.3
4	☐	1000.000	970.349	67563.50	0.0584	P	2.2	-3.0
5	☐	10000.00	9557.200	643072.29	0.5650	P	1.4	-4.4
6	☐	20000.00	20223.72	1324475.06	1.1943	A	2.6	1.1

y = 5.8999E-005 * x + 0.0012
R = 0.9997
DL = 9 ppb
BEC = 19.72 ppb

Weight: <None>
Min Conc: <None>

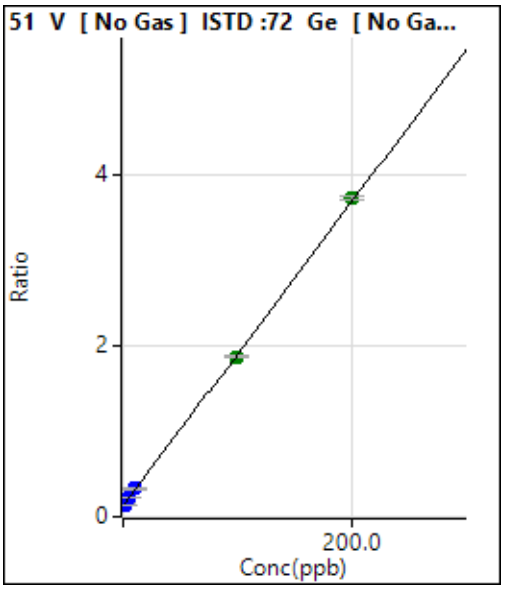
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	26.67	0.0000	P	44.0	
2	☐	2.000	1.824	776.70	0.0007	P	5.7	-8.8
3	☐	5.000	4.469	1833.49	0.0016	P	12.4	-10.6
4	☐	10.000	9.439	3783.92	0.0033	P	4.4	-5.6
5	☐	100.000	97.296	38132.74	0.0335	P	2.0	-2.7
6	☐	200.000	201.395	76872.09	0.0693	P	3.7	0.7

y = 3.4411E-004 * x + 2.2689E-005
R = 0.9999
DL = 0.08712 ppb
BEC = 0.06593 ppb

Weight: <None>
Min Conc: <None>

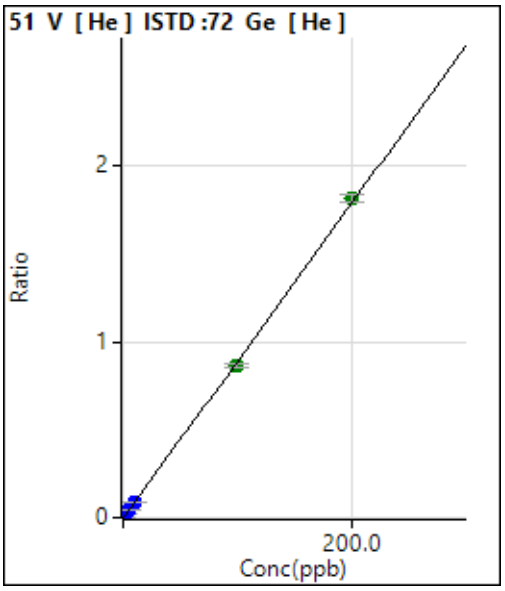


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	623488.18	0.1498	P	1.4	
2	☐	2.000	-0.404	599723.22	0.1426	P	1.6	-120.2
3	☐	5.000	4.124	921434.11	0.2230	P	1.8	-17.5
4	☐	10.000	9.910	1336488.84	0.3257	P	1.1	-0.9
5	☐	100.000	96.962	7443170.55	1.8711	A	1.6	-3.0
6	☐	200.000	201.570	14443088.49	3.7282	A	1.8	0.8

y = 0.0178 * x + 0.1498
R = 0.9998
DL = 0.3599 ppb
BEC = 8.439 ppb

Weight: <None>
Min Conc: <None>

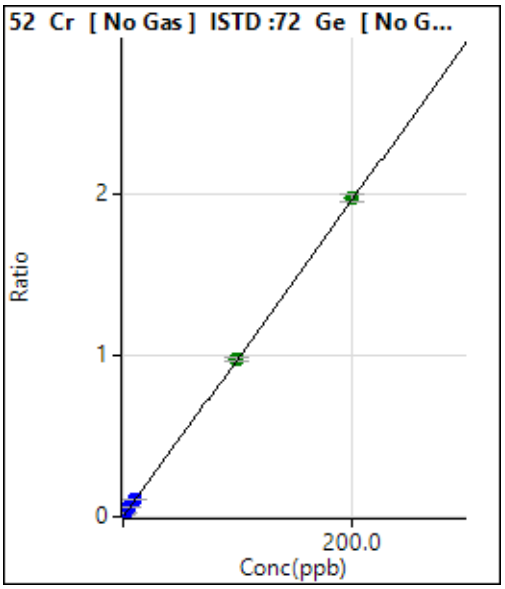
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5106.53	0.0043	P	1.3	
2	☐	2.000	1.750	23909.53	0.0200	P	1.6	-12.5
3	☐	5.000	4.697	54554.53	0.0465	P	2.7	-6.1
4	☐	10.000	9.668	105327.92	0.0911	P	2.7	-3.3
5	☐	100.000	95.893	984011.87	0.8645	A	1.7	-4.1
6	☐	200.000	202.080	2015089.64	1.8171	A	3.0	1.0

y = 0.0090 * x + 0.0043
R = 0.9997
DL = 0.01826 ppb
BEC = 0.4834 ppb

Weight: <None>
Min Conc: <None>

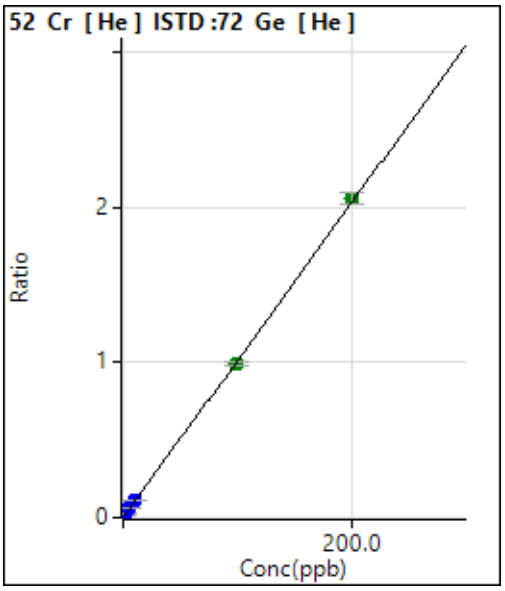


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	37434.31	0.0090	P	2.1	
2	☐	2.000	1.766	110679.48	0.0263	P	1.8	-11.7
3	☐	5.000	4.828	232859.77	0.0564	P	1.3	-3.4
4	☐	10.000	9.872	434256.59	0.1058	P	1.5	-1.3
5	☐	100.000	98.544	3881322.96	0.9757	A	1.8	-1.5
6	☐	200.000	200.741	7663884.26	1.9783	A	1.9	0.4

y = 0.0098 * x + 0.0090
R = 1.0000
DL = 0.05682 ppb
BEC = 0.9169 ppb

Weight: <None>
Min Conc: <None>

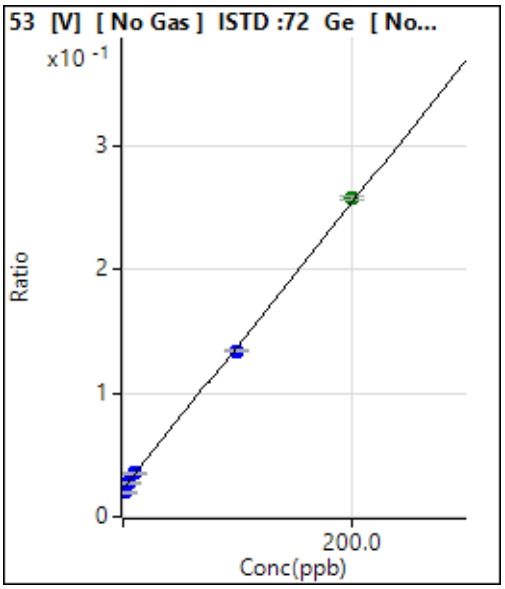
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	12652.62	0.0107	P	4.0	
2	☐	2.000	1.538	31466.12	0.0264	P	1.3	-23.1
3	☐	5.000	4.828	70170.90	0.0598	P	2.5	-3.4
4	☐	10.000	9.941	129188.69	0.1117	P	2.7	-0.6
5	☐	100.000	96.416	1126568.11	0.9898	A	2.4	-3.6
6	☐	200.000	201.804	2284256.84	2.0599	A	3.2	0.9

y = 0.0102 * x + 0.0107
R = 0.9998
DL = 0.1276 ppb
BEC = 1.058 ppb

Weight: <None>
Min Conc: <None>

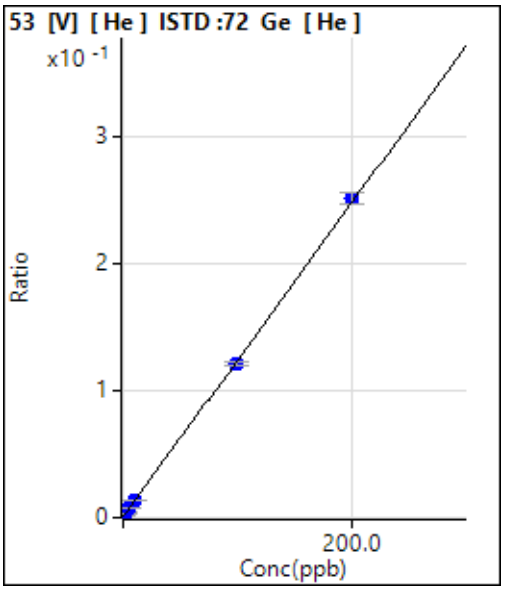


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	101036.73	0.0243	P	1.8	
2	☐	2.000	-4.140	81968.87	0.0195	P	2.1	-307.0
3	☐	5.000	2.731	113331.30	0.0274	P	2.6	-45.4
4	☐	10.000	9.394	144120.20	0.0351	P	0.9	-6.1
5	☐	100.000	95.281	534242.26	0.1343	P	1.3	-4.7
6	☐	200.000	202.508	999993.19	0.2581	A	1.4	1.3

y = 0.0012 * x + 0.0243
R = 0.9994
DL = 1.125 ppb
BEC = 21.02 ppb

Weight: <None>
Min Conc: <None>

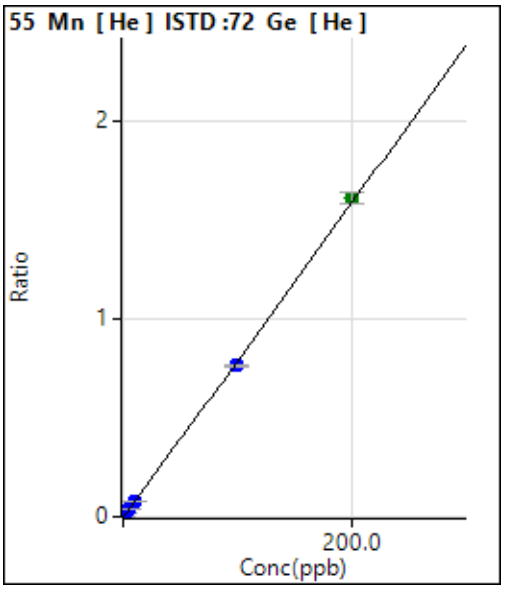
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2336.92	0.0020	P	0.1	
2	☐	2.000	1.449	4500.82	0.0038	P	3.2	-27.5
3	☐	5.000	4.493	8833.00	0.0075	P	6.0	-10.1
4	☐	10.000	9.573	15946.03	0.0138	P	1.4	-4.3
5	☐	100.000	96.223	137279.10	0.1206	P	2.1	-3.8
6	☐	200.000	201.928	278261.94	0.2509	P	3.1	1.0

y = 0.0012 * x + 0.0020
R = 0.9998
DL = 0.003174 ppb
BEC = 1.61 ppb

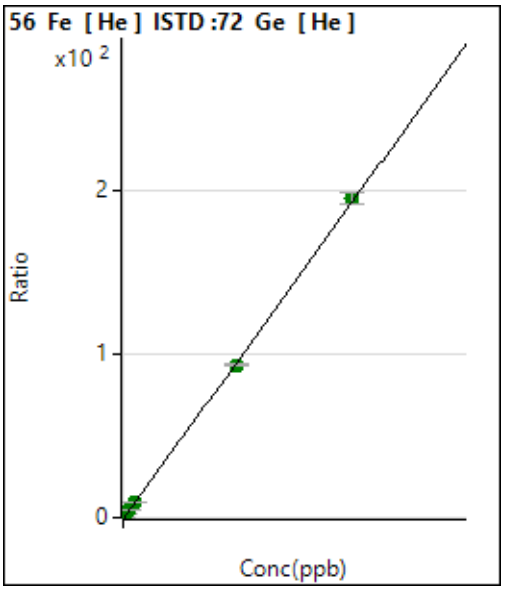
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1773.48	0.0015	P	5.5	
2	☐	2.000	1.839	19250.32	0.0161	P	2.2	-8.0
3	☐	5.000	4.861	47140.58	0.0402	P	1.7	-2.8
4	☐	10.000	9.816	92011.73	0.0795	P	2.8	-1.8
5	☐	100.000	95.630	867052.17	0.7618	P	1.4	-4.4
6	☐	200.000	202.199	1784314.40	1.6091	A	3.4	1.1

y = 0.0080 * x + 0.0015
R = 0.9997
DL = 0.03105 ppb
BEC = 0.1895 ppb

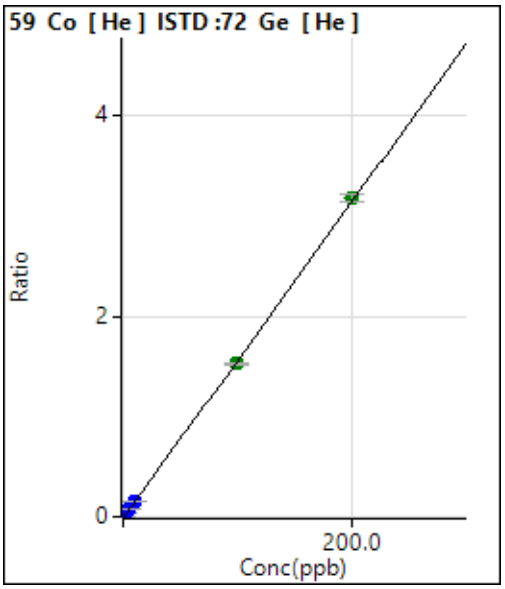
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	43278.54	0.0367	P	0.9	
2	☐	200.000	188.123	2218554.55	1.8583	A	1.2	-5.9
3	☐	500.000	480.763	5508640.75	4.6918	A	2.3	-3.8
4	☐	1000.000	985.434	11078721.09	9.5783	A	2.2	-1.5
5	☐	10000.00	9640.722	106286848.4	93.3839	A	1.3	-3.6
6	☐	20000.00	20180.96	216728676.7	195.440	A	3.2	0.9

y = 0.0097 * x + 0.0367
R = 0.9998
DL = 0.1028 ppb
BEC = 3.795 ppb

Weight: <None>
Min Conc: <None>

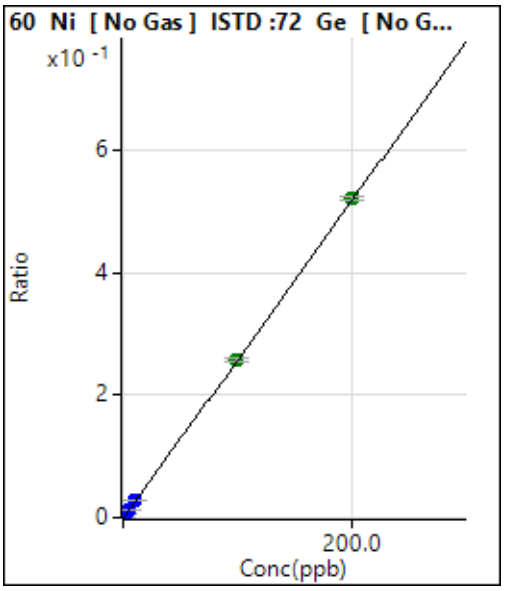


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1033.39	0.0009	P	12.3	
2	☐	2.000	1.923	37253.94	0.0312	P	4.1	-3.9
3	☐	5.000	4.873	91277.55	0.0777	P	3.4	-2.5
4	☐	10.000	10.047	184353.51	0.1594	P	2.7	0.5
5	☐	100.000	96.844	1739956.22	1.5287	A	1.6	-3.2
6	☐	200.000	201.580	3527645.26	3.1810	A	2.4	0.8

y = 0.0158 * x + 8.7793E-004
R = 0.9998
DL = 0.02052 ppb
BEC = 0.05565 ppb

Weight: <None>
Min Conc: <None>

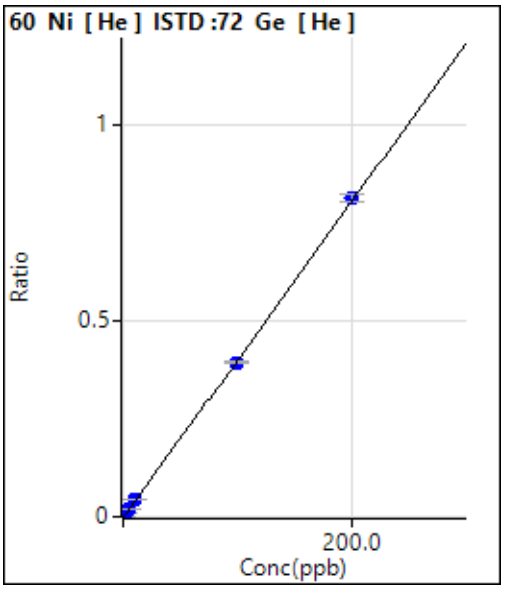
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4237.40	0.0010	P	1.1	
2	☐	2.000	1.918	25250.18	0.0060	P	1.5	-4.1
3	☐	5.000	4.998	57898.44	0.0140	P	2.2	0.0
4	☐	10.000	10.113	112049.36	0.0273	P	1.1	1.1
5	☐	100.000	98.616	1023925.77	0.2574	A	2.1	-1.4
6	☐	200.000	200.687	2025283.09	0.5228	A	1.4	0.3

y = 0.0026 * x + 0.0010
R = 1.0000
DL = 0.01257 ppb
BEC = 0.3916 ppb

Weight: <None>
Min Conc: <None>

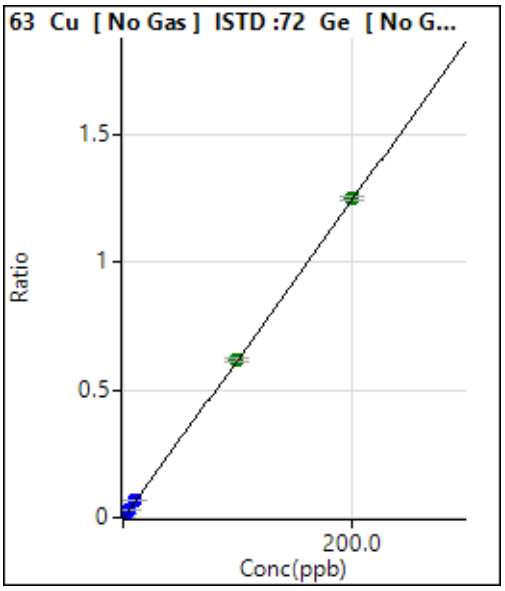


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1370.09	0.0012	P	2.3	
2	☐	2.000	1.973	10907.82	0.0091	P	7.7	-1.3
3	☐	5.000	4.850	24391.83	0.0208	P	2.6	-3.0
4	☐	10.000	10.255	49315.27	0.0426	P	2.2	2.6
5	☐	100.000	97.350	449400.83	0.3948	P	1.8	-2.7
6	☐	200.000	201.316	904123.53	0.8153	P	2.0	0.7

y = 0.0040 * x + 0.0012
R = 0.9999
DL = 0.0196 ppb
BEC = 0.2877 ppb

Weight: <None>
Min Conc: <None>

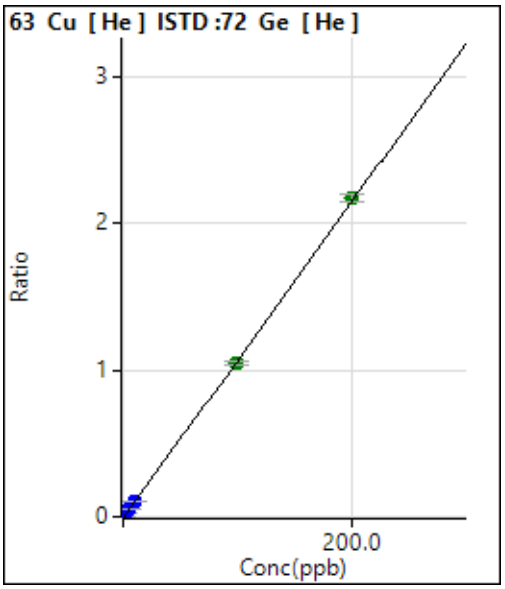
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	7608.90	0.0018	P	4.3	
2	☐	2.000	2.006	60252.13	0.0143	P	3.6	0.3
3	☐	5.000	5.060	137858.86	0.0334	P	2.6	1.2
4	☐	10.000	10.184	267930.58	0.0653	P	2.0	1.8
5	☐	100.000	98.992	2461635.85	0.6188	A	1.8	-1.0
6	☐	200.000	200.493	4848458.99	1.2515	A	1.2	0.2

y = 0.0062 * x + 0.0018
R = 1.0000
DL = 0.03749 ppb
BEC = 0.2933 ppb

Weight: <None>
Min Conc: <None>

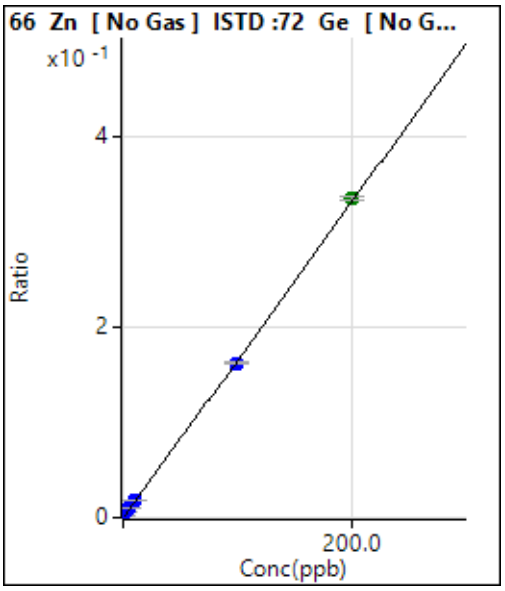


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1290.09	0.0011	P	16.3	
2	☐	2.000	1.925	26111.82	0.0219	P	2.4	-3.8
3	☐	5.000	4.936	63848.37	0.0544	P	1.2	-1.3
4	☐	10.000	10.015	126312.89	0.1092	P	0.4	0.1
5	☐	100.000	96.995	1193030.61	1.0482	A	1.7	-3.0
6	☐	200.000	201.504	2413664.39	2.1764	A	1.8	0.8

y = 0.0108 * x + 0.0011
R = 0.9998
DL = 0.04961 ppb
BEC = 0.1014 ppb

Weight: <None>
Min Conc: <None>

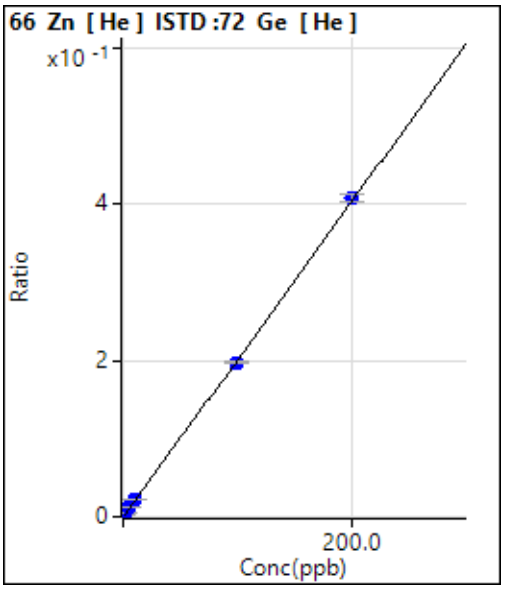
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4424.13	0.0011	P	4.0	
2	☐	2.000	2.492	21897.70	0.0052	P	3.4	24.6
3	☐	5.000	5.019	38885.42	0.0094	P	4.4	0.4
4	☐	10.000	10.061	73027.29	0.0178	P	1.2	0.6
5	☐	100.000	97.306	648074.41	0.1629	P	2.0	-2.7
6	☐	200.000	201.339	1301588.63	0.3360	A	1.5	0.7

y = 0.0017 * x + 0.0011
R = 0.9999
DL = 0.07603 ppb
BEC = 0.639 ppb

Weight: <None>
Min Conc: <None>

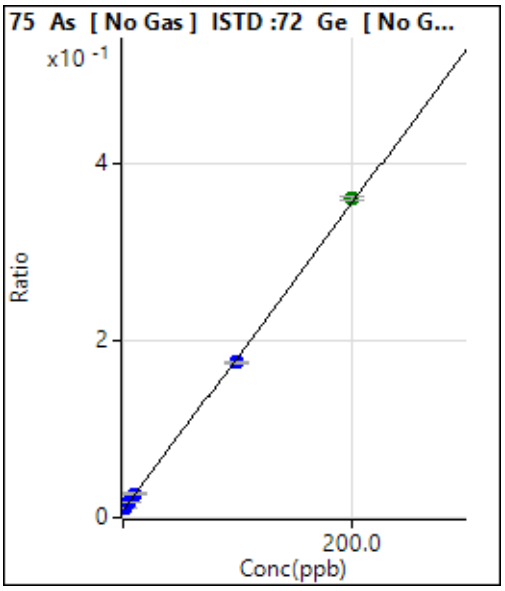


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1546.78	0.0013	P	6.9	
2	☐	2.000	2.350	7238.72	0.0061	P	0.9	17.5
3	☐	5.000	4.954	13299.97	0.0113	P	3.7	-0.9
4	☐	10.000	10.064	25053.27	0.0217	P	1.3	0.6
5	☐	100.000	97.122	224987.90	0.1977	P	1.9	-2.9
6	☐	200.000	201.433	453103.39	0.4086	P	2.6	0.7

y = 0.0020 * x + 0.0013
R = 0.9998
DL = 0.1336 ppb
BEC = 0.6498 ppb

Weight: <None>
Min Conc: <None>

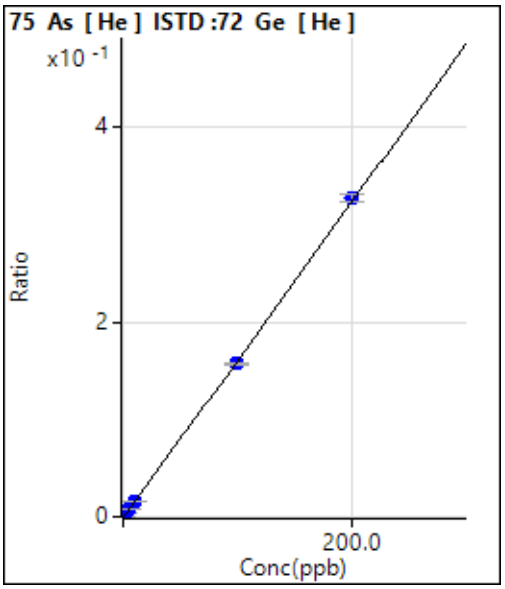
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	41420.07	0.0100	P	2.2	
2	☐	2.000	0.174	43111.79	0.0103	P	0.8	-91.3
3	☐	5.000	4.236	71393.00	0.0173	P	2.2	-15.3
4	☐	10.000	9.765	110125.14	0.0268	P	2.7	-2.4
5	☐	100.000	95.313	695363.61	0.1748	P	1.6	-4.7
6	☐	200.000	202.393	1394740.55	0.3600	A	1.6	1.2

y = 0.0017 * x + 0.0100
R = 0.9996
DL = 0.3786 ppb
BEC = 5.754 ppb

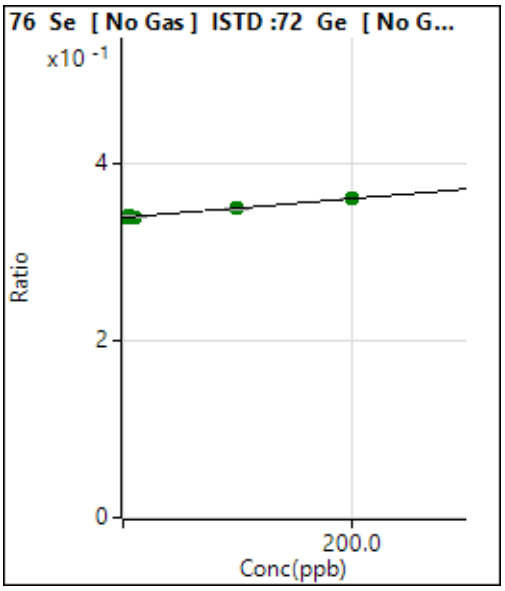
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	356.67	0.0003	P	6.9	
2	☐	2.000	1.841	3928.36	0.0033	P	3.7	-7.9
3	☐	5.000	4.835	9564.50	0.0081	P	4.6	-3.3
4	☐	10.000	9.803	18745.11	0.0162	P	1.3	-2.0
5	☐	100.000	96.787	179057.99	0.1573	P	1.7	-3.2
6	☐	200.000	201.622	363060.04	0.3274	P	2.6	0.8

y = 0.0016 * x + 3.0293E-004
R = 0.9998
DL = 0.03847 ppb
BEC = 0.1867 ppb

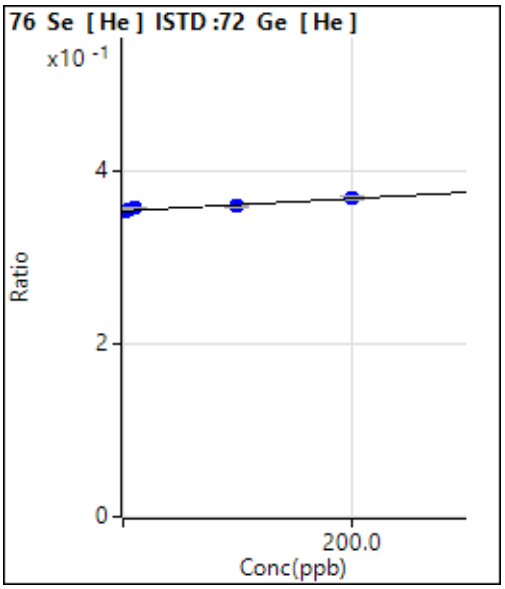
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1411471.07	0.3391	A	0.2	
2	☐	2.000	-6.447	1422952.53	0.3384	A	0.7	-422.4
3	☐	5.000	11.669	1406365.14	0.3404	A	0.6	133.4
4	☐	10.000	6.783	1394506.23	0.3399	A	0.4	-32.2
5	☐	100.000	95.860	1390091.65	0.3495	A	0.5	-4.1
6	☐	200.000	202.148	1398200.03	0.3609	A	0.3	1.1

y = 1.0766E-004 * x + 0.3391
R = 0.9980
DL = 22.78 ppb
BEC = 3150 ppb

Weight: <None>
Min Conc: <None>

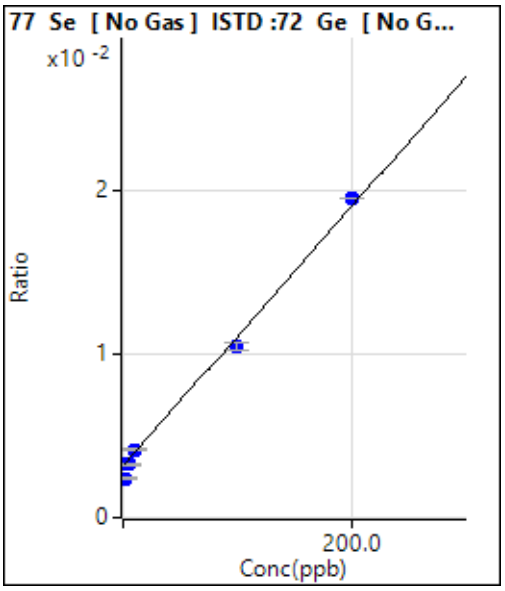


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	416216.30	0.3534	P	0.2	
2	☐	2.000	-11.688	420892.72	0.3526	P	1.0	-684.4
3	☐	5.000	21.482	416774.79	0.3550	P	0.9	329.6
4	☐	10.000	49.882	412980.25	0.3571	P	0.7	398.8
5	☐	100.000	78.995	408769.76	0.3592	P	0.4	-21.0
6	☐	200.000	208.233	408732.73	0.3686	P	1.5	4.1

y = 7.2568E-005 * x + 0.3534
R = 0.9636
DL = 35.82 ppb
BEC = 4870 ppb

Weight: <None>
Min Conc: <None>

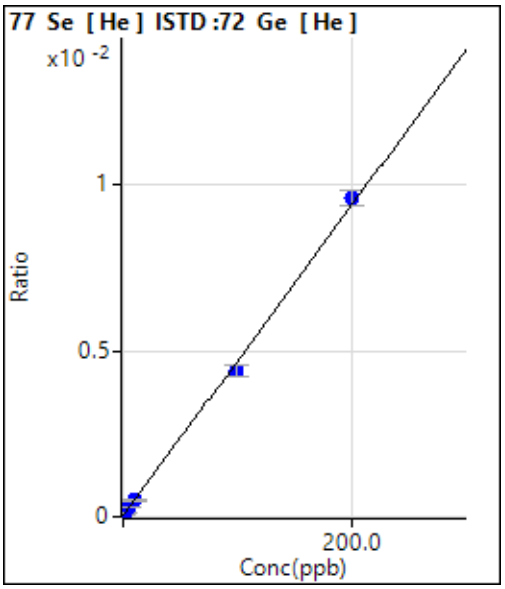
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	13703.79	0.0033	P	1.8	
2	☐	2.000	-11.125	10137.27	0.0024	P	3.9	-656.3
3	☐	5.000	-0.623	13400.07	0.0032	P	2.7	-112.5
4	☐	10.000	10.886	17050.96	0.0042	P	2.4	8.9
5	☐	100.000	90.162	41516.84	0.0104	P	4.7	-9.8
6	☐	200.000	205.146	75736.43	0.0195	P	0.3	2.6

y = 7.9240E-005 * x + 0.0033
R = 0.9972
DL = 2.21 ppb
BEC = 41.55 ppb

Weight: <None>
Min Conc: <None>

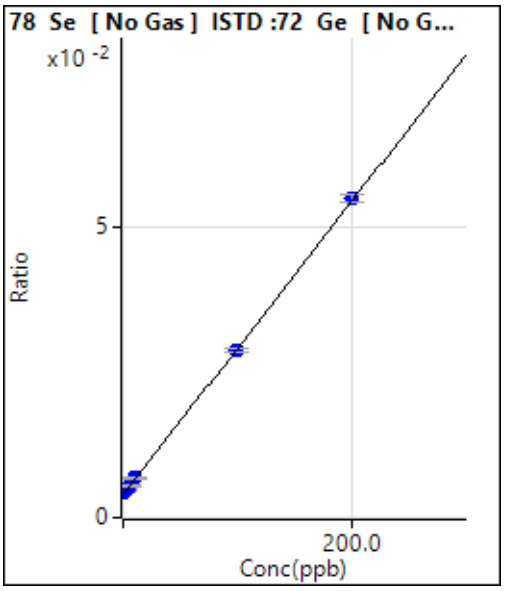


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	93.33	0.0001	P	6.5	
2	☐	2.000	1.111	156.67	0.0001	P	8.5	-44.4
3	☐	5.000	4.796	356.68	0.0003	P	8.8	-4.1
4	☐	10.000	8.887	573.36	0.0005	P	8.1	-11.1
5	☐	100.000	92.779	5034.34	0.0044	P	8.2	-7.2
6	☐	200.000	203.680	10667.72	0.0096	P	4.4	1.8

y = 4.6838E-005 * x + 7.9270E-005
R = 0.9991
DL = 0.3311 ppb
BEC = 1.692 ppb

Weight: <None>
Min Conc: <None>

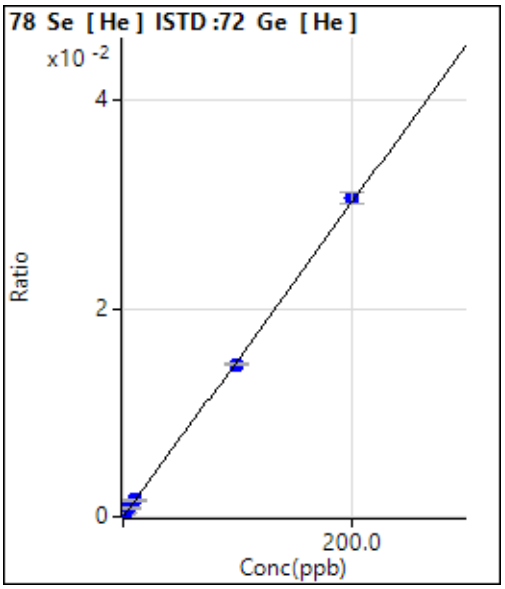
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	17611.61	0.0042	P	2.6	
2	☐	2.000	2.103	20014.94	0.0048	P	2.4	5.2
3	☐	5.000	4.648	22311.83	0.0054	P	1.9	-7.0
4	☐	10.000	10.145	27828.68	0.0068	P	1.1	1.5
5	☐	100.000	97.785	114635.87	0.0288	P	2.4	-2.2
6	☐	200.000	201.108	212292.33	0.0548	P	2.0	0.6

y = 2.5143E-004 * x + 0.0042
R = 0.9999
DL = 1.302 ppb
BEC = 16.83 ppb

Weight: <None>
Min Conc: <None>

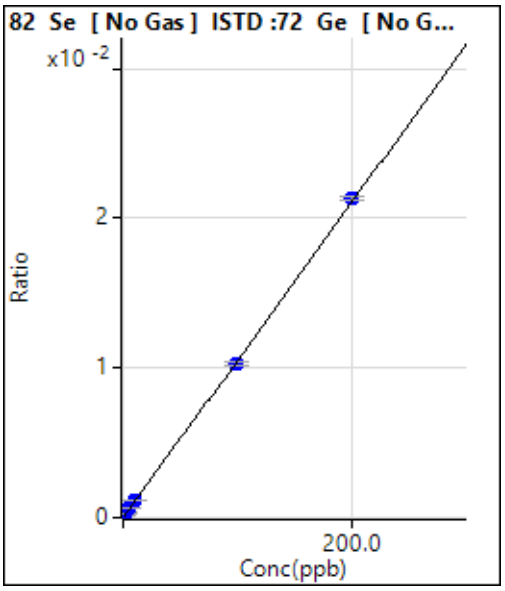


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	158.67	0.0001	P	8.1	
2	☐	2.000	2.023	525.34	0.0004	P	6.2	1.2
3	☐	5.000	4.647	981.37	0.0008	P	4.6	-7.1
4	☐	10.000	9.711	1850.80	0.0016	P	4.8	-2.9
5	☐	100.000	96.045	16650.84	0.0146	P	1.7	-4.0
6	☐	200.000	202.001	33953.46	0.0306	P	3.5	1.0

y = 1.5091E-004 * x + 1.3471E-004
R = 0.9997
DL = 0.216 ppb
BEC = 0.8926 ppb

Weight: <None>
Min Conc: <None>

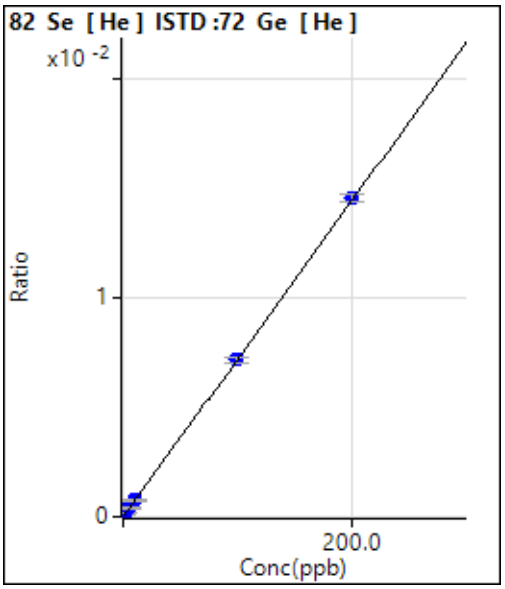
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	426.68	0.0001	P	25.5	
2	☐	2.000	1.939	1290.09	0.0003	P	19.5	-3.1
3	☐	5.000	4.748	2490.28	0.0006	P	1.2	-5.0
4	☐	10.000	9.887	4694.22	0.0011	P	3.6	-1.1
5	☐	100.000	96.838	40985.51	0.0103	P	1.8	-3.2
6	☐	200.000	201.593	82664.00	0.0213	P	1.8	0.8

y = 1.0534E-004 * x + 1.0258E-004
R = 0.9998
DL = 0.7442 ppb
BEC = 0.9739 ppb

Weight: <None>
Min Conc: <None>

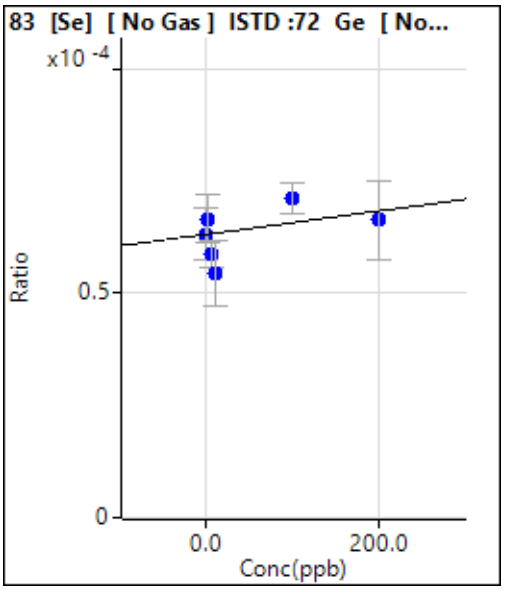


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	80.00	0.0001	P	22.0	
2	☐	2.000	1.461	206.68	0.0002	P	20.2	-26.9
3	☐	5.000	4.684	476.68	0.0004	P	20.7	-6.3
4	☐	10.000	9.567	876.71	0.0008	P	9.0	-4.3
5	☐	100.000	98.378	8149.25	0.0072	P	3.4	-1.6
6	☐	200.000	200.846	16133.29	0.0145	P	2.0	0.4

y = 7.2094E-005 * x + 6.7964E-005
R = 1.0000
DL = 0.621 ppb
BEC = 0.9427 ppb

Weight: <None>
Min Conc: <None>

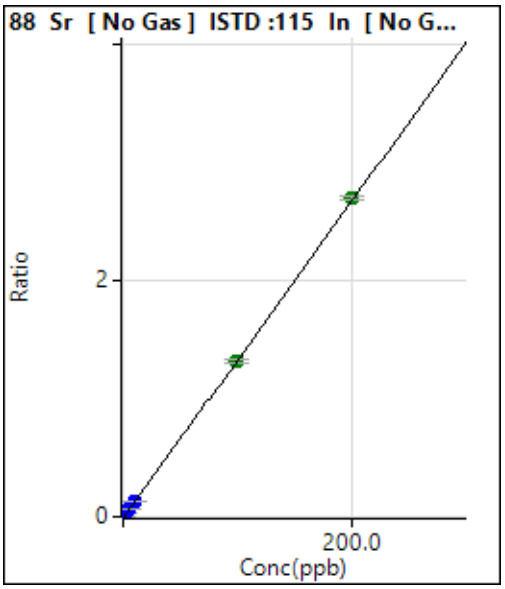
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	263.34	0.0001	P	18.4	
2	☐	2.000	128.285	280.01	0.0001	P	16.3	6314.2
3	☐	5.000	-167.283	243.34	0.0001	P	10.2	-3445.7
4	☐	10.000	-339.012	223.34	0.0001	P	26.7	-3490.1
5	☐	100.000	305.817	283.34	0.0001	P	10.1	205.8
6	☐	200.000	117.586	256.68	0.0001	P	26.6	-41.2

y = 2.6064E-008 * x + 6.3252E-005
R = 0.5062
DL = 1341 ppb
BEC = 2427 ppb

Weight: <None>
Min Conc: <None>

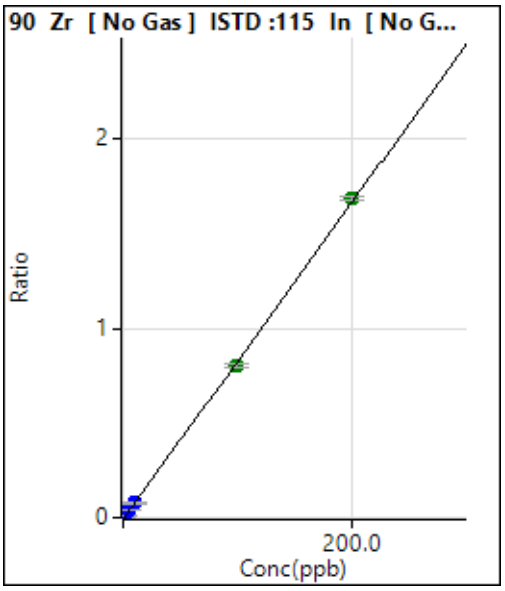


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4904.32	0.0009	P	7.3	
2	☐	2.000	1.864	137527.00	0.0259	P	1.2	-6.8
3	☐	5.000	4.711	337079.14	0.0641	P	1.1	-5.8
4	☐	10.000	9.534	674025.95	0.1287	P	0.6	-4.7
5	☐	100.000	97.841	6609469.07	1.3123	A	2.4	-2.2
6	☐	200.000	201.111	13219901.88	2.6964	A	1.3	0.6

y = 0.0134 * x + 9.2501E-004
R = 0.9999
DL = 0.01507 ppb
BEC = 0.06902 ppb

Weight: <None>
Min Conc: <None>

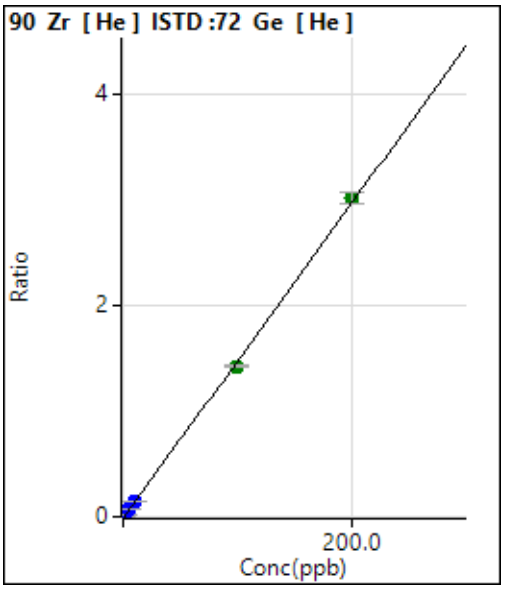
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2100.20	0.0004	P	19.4	
2	☐	2.000	1.596	72866.28	0.0137	P	1.3	-20.2
3	☐	5.000	4.327	192226.04	0.0365	P	1.7	-13.5
4	☐	10.000	9.154	402526.14	0.0769	P	1.8	-8.5
5	☐	100.000	96.419	4058347.96	0.8058	A	2.6	-3.6
6	☐	200.000	201.854	8268343.63	1.6864	A	1.4	0.9

y = 0.0084 * x + 3.9617E-004
R = 0.9998
DL = 0.02754 ppb
BEC = 0.04743 ppb

Weight: <None>
Min Conc: <None>

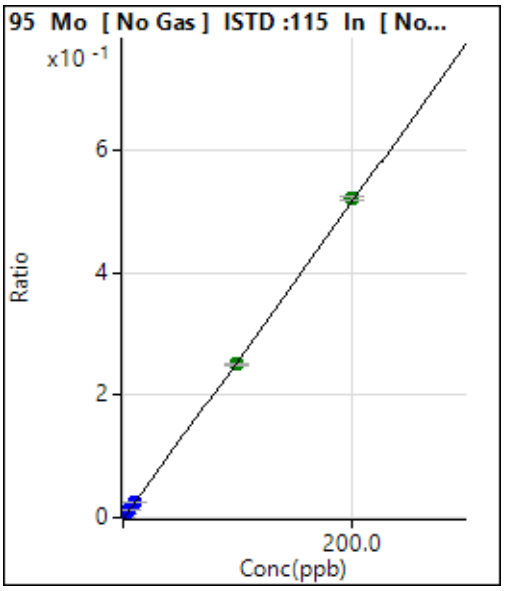


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2046.86	0.0017	P	2.1	
2	☐	2.000	1.597	30474.83	0.0255	P	1.3	-20.2
3	☐	5.000	4.306	77360.72	0.0659	P	3.7	-13.9
4	☐	10.000	9.243	161276.68	0.1394	P	2.1	-7.6
5	☐	100.000	95.413	1619902.21	1.4232	A	2.0	-4.6
6	☐	200.000	202.353	3344962.35	3.0164	A	3.1	1.2

y = 0.0149 * x + 0.0017
R = 0.9997
DL = 0.007522 ppb
BEC = 0.1167 ppb

Weight: <None>
Min Conc: <None>

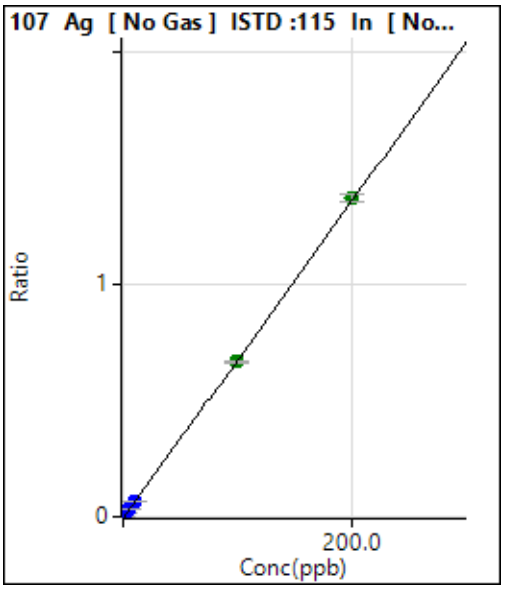
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	383.35	0.0001	P	21.2	
2	☐	2.000	1.886	26265.88	0.0049	P	4.8	-5.7
3	☐	5.000	4.791	65532.40	0.0125	P	2.1	-4.2
4	☐	10.000	9.571	129939.16	0.0248	P	2.1	-4.3
5	☐	100.000	96.791	1260475.16	0.2503	A	2.0	-3.2
6	☐	200.000	201.632	2555596.78	0.5213	A	1.5	0.8

y = 0.0026 * x + 7.2253E-005
R = 0.9998
DL = 0.01779 ppb
BEC = 0.02795 ppb

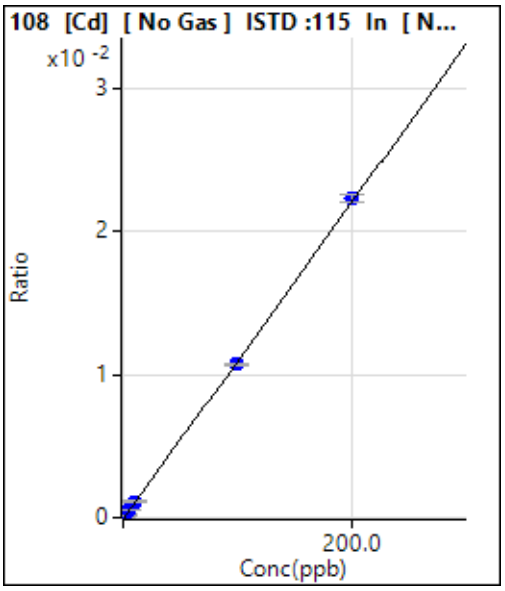
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1473.44	0.0003	P	9.2	
2	☐	2.000	1.978	73196.34	0.0138	P	2.4	-1.1
3	☐	5.000	4.937	178888.02	0.0340	P	1.2	-1.3
4	☐	10.000	9.934	356860.89	0.0681	P	1.9	-0.7
5	☐	100.000	97.700	3362962.35	0.6677	A	1.4	-2.3
6	☐	200.000	201.155	6738256.15	1.3744	A	2.2	0.6

y = 0.0068 * x + 2.7790E-004
R = 0.9999
DL = 0.01118 ppb
BEC = 0.04068 ppb

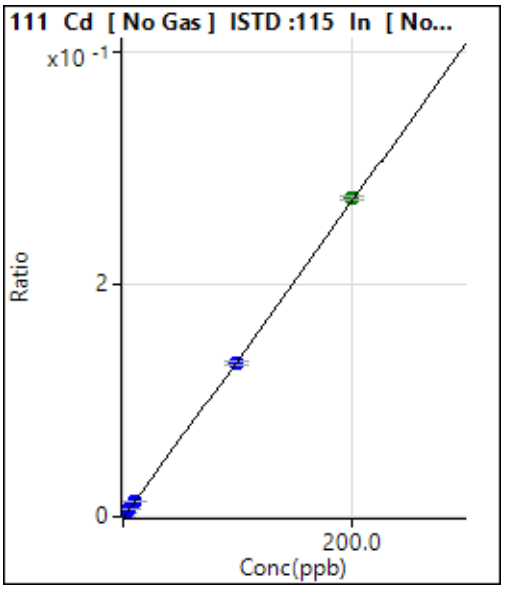
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	20.00	0.0000	P	99.8	
2	☐	2.000	1.758	1053.40	0.0002	P	16.5	-12.1
3	☐	5.000	4.930	2893.71	0.0006	P	4.1	-1.4
4	☐	10.000	10.251	5968.10	0.0011	P	3.4	2.5
5	☐	100.000	96.634	53948.86	0.0107	P	1.3	-3.4
6	☐	200.000	201.674	109577.53	0.0224	P	1.9	0.8

y = 1.1080E-004 * x + 3.7564E-006
R = 0.9998
DL = 0.1015 ppb
BEC = 0.0339 ppb

Weight: <None>
Min Conc: <None>

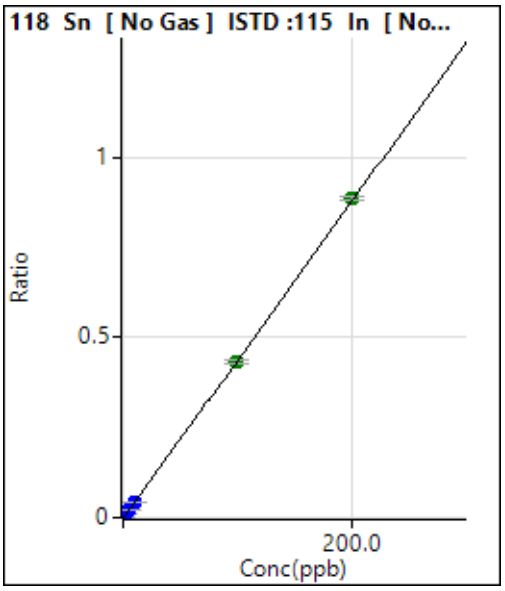


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	161.88	0.0000	P	17.1	
2	☐	2.000	1.958	14305.56	0.0027	P	3.2	-2.1
3	☐	5.000	4.876	35056.73	0.0067	P	2.6	-2.5
4	☐	10.000	9.727	69461.72	0.0133	P	1.0	-2.7
5	☐	100.000	97.128	665670.65	0.1322	P	2.1	-2.9
6	☐	200.000	201.453	1343775.42	0.2741	A	1.7	0.7

y = 0.0014 * x + 3.0559E-005
R = 0.9999
DL = 0.01152 ppb
BEC = 0.02246 ppb

Weight: <None>
Min Conc: <None>

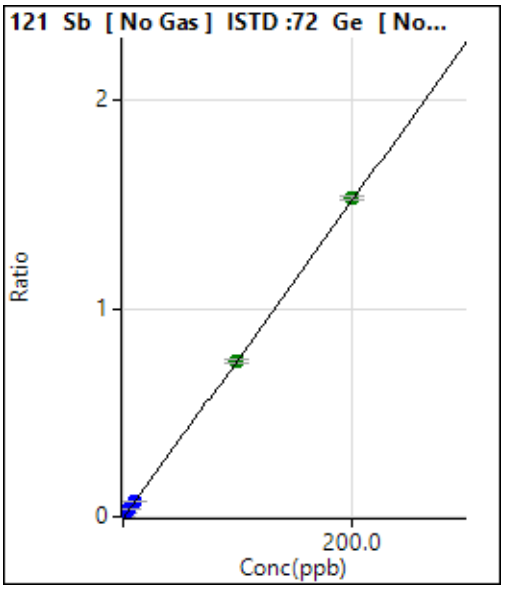
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	8672.97	0.0016	P	4.3	
2	☐	2.000	1.777	50235.19	0.0095	P	1.9	-11.1
3	☐	5.000	4.844	120829.17	0.0230	P	2.4	-3.1
4	☐	10.000	9.771	233896.42	0.0447	P	1.8	-2.3
5	☐	100.000	97.909	2179718.82	0.4328	A	2.4	-2.1
6	☐	200.000	201.063	4348892.12	0.8870	A	1.5	0.5

y = 0.0044 * x + 0.0016
R = 0.9999
DL = 0.04822 ppb
BEC = 0.3715 ppb

Weight: <None>
Min Conc: <None>

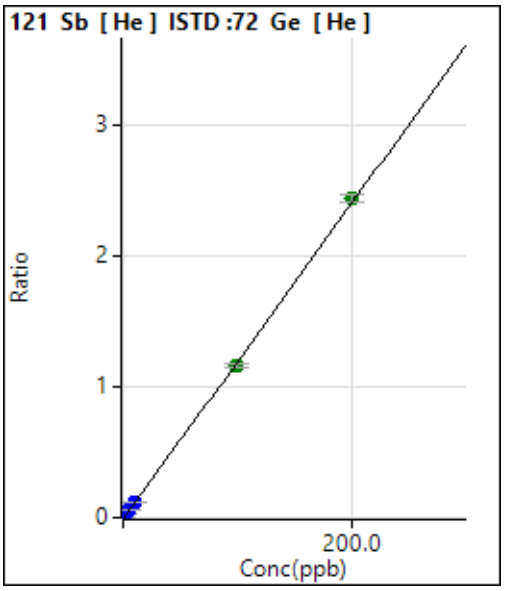


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1300.09	0.0003	P	6.4	
2	☐	2.000	1.927	63069.68	0.0150	P	2.9	-3.6
3	☐	5.000	4.830	153386.18	0.0371	P	1.8	-3.4
4	☐	10.000	9.841	309005.41	0.0753	P	2.5	-1.6
5	☐	100.000	97.922	2970035.48	0.7466	A	2.6	-2.1
6	☐	200.000	201.052	5937645.75	1.5326	A	0.9	0.5

y = 0.0076 * x + 3.1238E-004
R = 0.9999
DL = 0.007811 ppb
BEC = 0.04099 ppb

Weight: <None>
Min Conc: <None>

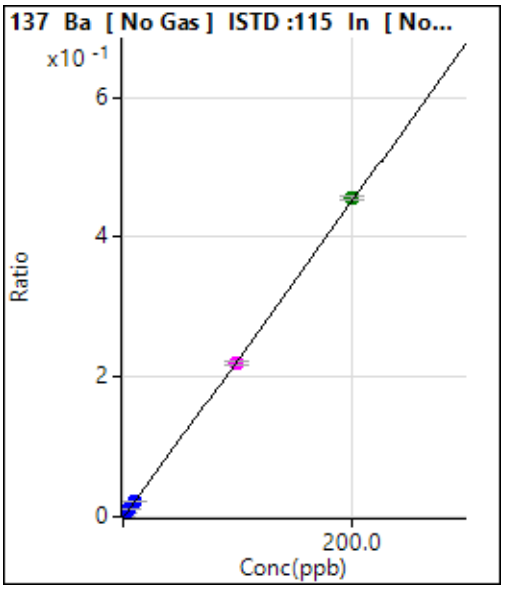
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	500.02	0.0004	P	15.2	
2	☐	2.000	1.854	27265.11	0.0228	P	2.9	-7.3
3	☐	5.000	4.709	67310.56	0.0573	P	1.9	-5.8
4	☐	10.000	9.697	136043.29	0.1176	P	2.3	-3.0
5	☐	100.000	95.928	1320040.99	1.1598	A	1.7	-4.1
6	☐	200.000	202.060	2708541.42	2.4424	A	2.6	1.0

y = 0.0121 * x + 4.2496E-004
R = 0.9997
DL = 0.016 ppb
BEC = 0.03516 ppb

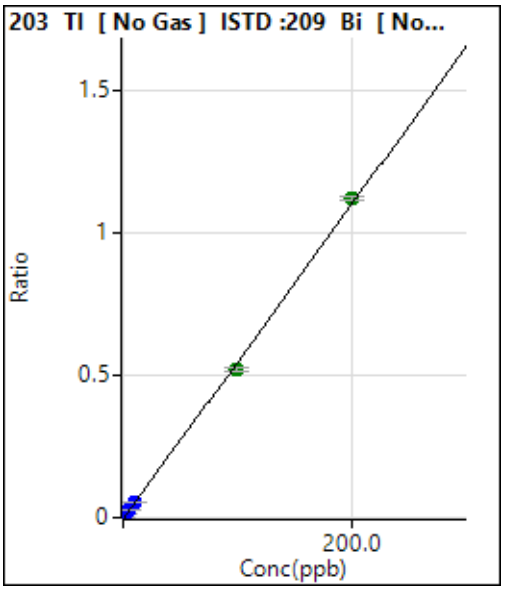
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1700.15	0.0003	P	10.7	
2	☐	2.000	1.879	24276.29	0.0046	P	2.6	-6.0
3	☐	5.000	4.818	59039.55	0.0112	P	4.2	-3.6
4	☐	10.000	9.605	115501.48	0.0221	P	0.7	-4.0
5	☐	100.000	97.269	1110159.10	0.2204	M	2.9	-2.7
6	☐	200.000	201.391	2235829.65	0.4560	A	1.4	0.7

y = 0.0023 * x + 3.2087E-004
R = 0.9999
DL = 0.04554 ppb
BEC = 0.1418 ppb

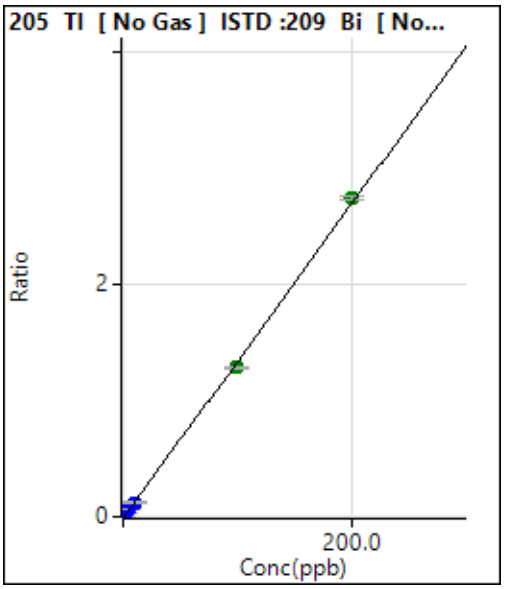
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1660.14	0.0003	P	7.8	
2	☐	2.000	1.878	55793.72	0.0107	P	2.8	-6.1
3	☐	5.000	4.593	135000.39	0.0257	P	2.0	-8.1
4	☐	10.000	9.304	270992.55	0.0517	P	2.8	-7.0
5	☐	100.000	94.454	2656535.90	0.5223	A	2.8	-5.5
6	☐	200.000	202.819	5571897.42	1.1211	A	0.9	1.4

y = 0.0055 * x + 3.1486E-004
R = 0.9995
DL = 0.01335 ppb
BEC = 0.05697 ppb

Weight: <None>
Min Conc: <None>

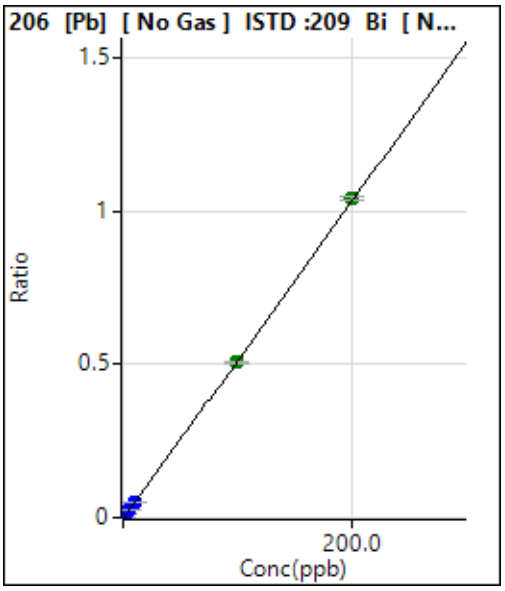


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4244.13	0.0008	P	4.2	
2	☐	2.000	1.804	131364.11	0.0252	P	1.7	-9.8
3	☐	5.000	4.409	317138.36	0.0604	P	2.2	-11.8
4	☐	10.000	9.034	643602.01	0.1229	P	2.6	-9.7
5	☐	100.000	94.683	6510474.90	1.2800	A	1.9	-5.3
6	☐	200.000	202.724	13615678.13	2.7396	A	1.2	1.4

y = 0.0135 * x + 8.0492E-004
R = 0.9995
DL = 0.007506 ppb
BEC = 0.05958 ppb

Weight: <None>
Min Conc: <None>

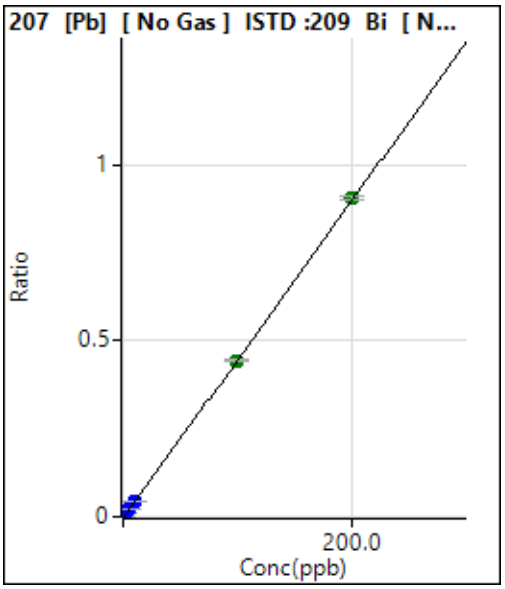
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2093.56	0.0004	P	1.4	
2	☐	2.000	1.997	56105.45	0.0108	P	3.6	-0.1
3	☐	5.000	4.917	136045.56	0.0259	P	1.4	-1.7
4	☐	10.000	9.875	270387.76	0.0516	P	1.2	-1.2
5	☐	100.000	97.799	2581850.59	0.5076	A	1.2	-2.2
6	☐	200.000	201.109	5185454.40	1.0434	A	1.1	0.6

y = 0.0052 * x + 3.9707E-004
R = 0.9999
DL = 0.003131 ppb
BEC = 0.07656 ppb

Weight: <None>
Min Conc: <None>

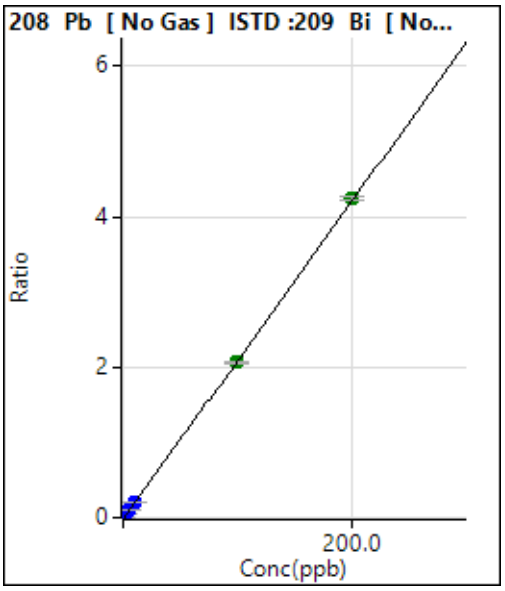


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1683.48	0.0003	P	17.7	
2	☐	2.000	1.953	47653.75	0.0091	P	2.7	-2.3
3	☐	5.000	4.892	117666.31	0.0224	P	1.5	-2.2
4	☐	10.000	9.855	234677.64	0.0448	P	1.0	-1.5
5	☐	100.000	98.236	2256621.22	0.4437	A	1.4	-1.8
6	☐	200.000	200.892	4507385.76	0.9070	A	0.7	0.4

y = 0.0045 * x + 3.1925E-004
R = 0.9999
DL = 0.03765 ppb
BEC = 0.07074 ppb

Weight: <None>
Min Conc: <None>

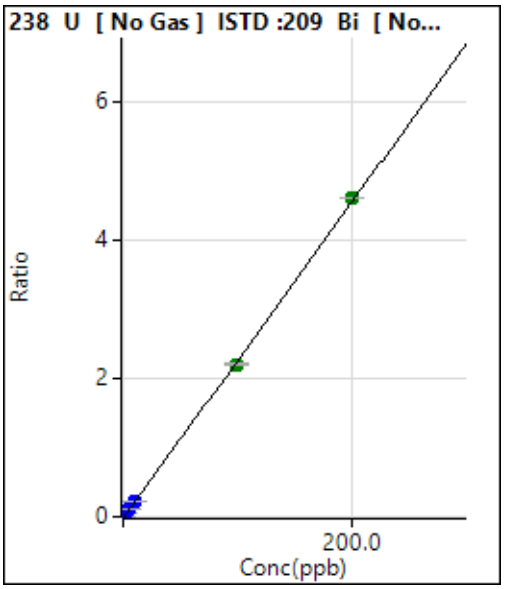
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	8201.26	0.0016	P	3.9	
2	☐	2.000	1.928	220534.58	0.0423	P	2.9	-3.6
3	☐	5.000	4.791	539540.36	0.1027	P	1.4	-4.2
4	☐	10.000	9.714	1082670.58	0.2067	P	1.2	-2.9
5	☐	100.000	97.924	10524649.43	2.0692	A	1.2	-2.1
6	☐	200.000	201.058	21106062.91	4.2468	A	1.1	0.5

y = 0.0211 * x + 0.0016
R = 0.9999
DL = 0.008711 ppb
BEC = 0.07367 ppb

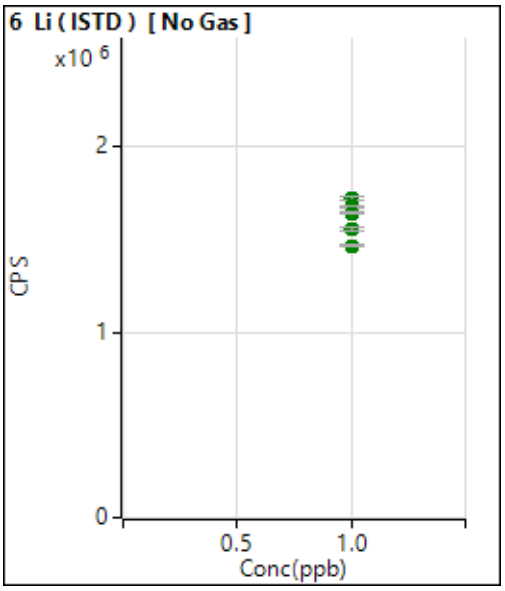
Weight: <None>
Min Conc: <None>



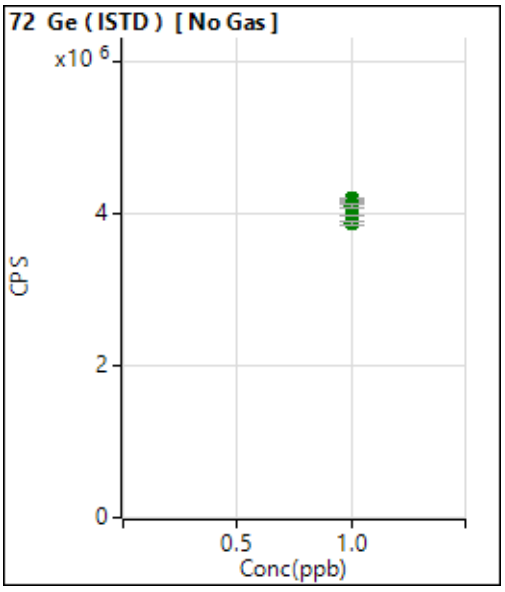
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5417.97	0.0010	P	3.9	
2	☐	2.000	1.829	223446.58	0.0428	P	0.8	-8.5
3	☐	5.000	4.528	548908.05	0.1045	P	1.6	-9.4
4	☐	10.000	9.306	1119428.45	0.2137	P	1.0	-6.9
5	☐	100.000	96.488	11219859.42	2.2059	A	1.4	-3.5
6	☐	200.000	201.804	22922825.49	4.6125	A	0.4	0.9

y = 0.0229 * x + 0.0010
R = 0.9998
DL = 0.005247 ppb
BEC = 0.04497 ppb

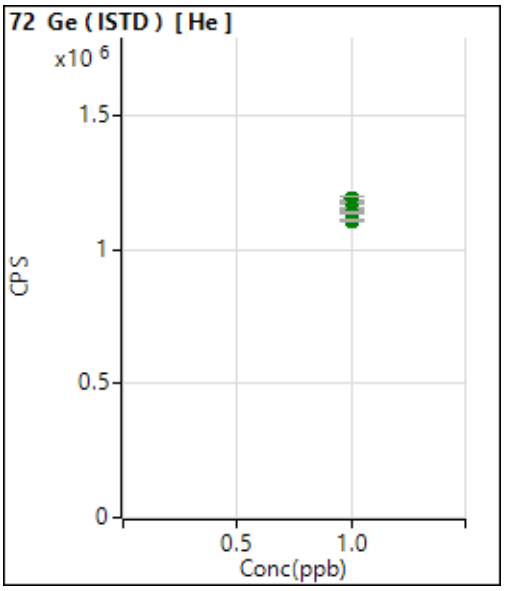
Weight: <None>
Min Conc: <None>



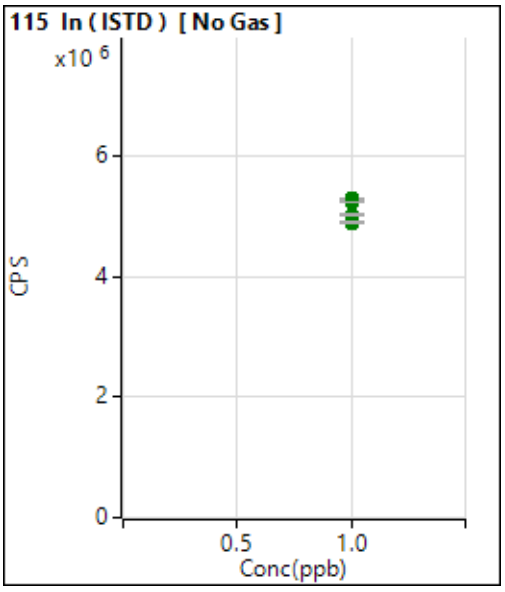
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1709896.43		A	0.1	
2	☐	1.000		1722227.11		A	0.8	
3	☐	1.000		1676112.40		A	0.7	
4	☐	1.000		1644380.63		A	0.5	
5	☐	1.000		1556073.15		A	1.2	
6	☐	1.000		1464767.87		A	0.5	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4162003.17		A	0.4	
2	☐	1.000		4204480.88		A	0.1	
3	☐	1.000		4131653.38		A	0.1	
4	☐	1.000		4103178.79		A	0.7	
5	☐	1.000		3977893.69		A	0.2	
6	☐	1.000		3874294.11		A	0.8	

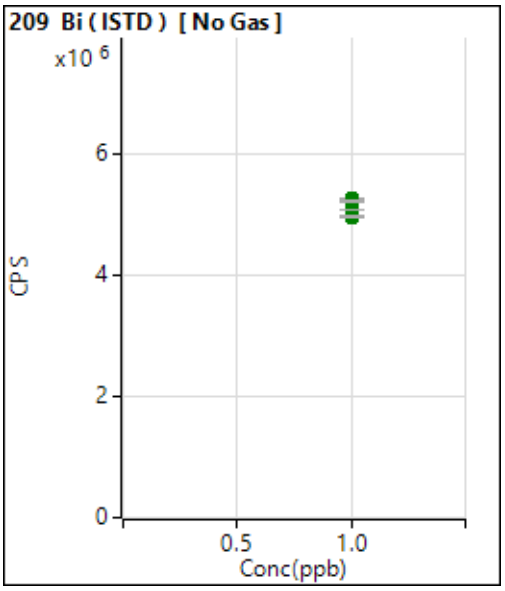


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1177618.06		A	1.0	
2	☐	1.000		1193812.90		A	1.4	
3	☐	1.000		1174066.93		A	0.9	
4	☐	1.000		1156621.96		A	0.7	
5	☐	1.000		1138105.48		A	0.7	
6	☐	1.000		1109115.32		A	0.9	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		5301074.33		A	0.7	
2	☐	1.000		5309002.67		A	0.4	
3	☐	1.000		5261197.90		A	0.4	
4	☐	1.000		5237070.79		A	0.0	
5	☐	1.000		5036649.90		A	0.1	
6	☐	1.000		4903058.98		A	0.8	

Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		5272521.38		A	0.1	
2	☐	1.000		5216993.47		A	0.7	
3	☐	1.000		5253118.88		A	0.0	
4	☐	1.000		5239227.94		A	0.6	
5	☐	1.000		5086380.97		A	0.1	
6	☐	1.000		4969671.91		A	0.5	

Calibration Blank Report

Sample Table

Sample Name	CAL BLK
Data File Name	010CALB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T10:33:10-05:00
Sample Type	CalBlk
Level	1
Dilution	1
Comment	

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Li	7	1	No Gas	95109	0.00
Be	9	1	No Gas	370	1.59
V	51	2	He	5107	0.02
Cr	52	2	He	12653	0.03
Fe	56	2	He	43279	0.00
Se	78	2	He	159	5.29
As	75	2	He	357	1.83
Ca	44	2	He	1370	1.12
Na	23	2	He	288606	0.00
Mg	24	2	He	2800	0.09
K	39	2	He	119098	0.00
Mn	55	2	He	1773	0.26
Co	59	2	He	1033	1.13
Ni	60	2	He	1370	0.19
Cu	63	2	He	1290	1.34
Zn	66	2	He	1547	0.42
Al	27	2	He	2067	0.14
B	11	1	No Gas	19585	0.01
Al	27	1	No Gas	79772	0.00
Si	28	1	No Gas	438319	0.00
Ag	107	1	No Gas	1473	0.65
Cd	111	1	No Gas	162	10.16
Sr	88	1	No Gas	4904	0.16
Mo	95	1	No Gas	383	5.71
Sn	118	1	No Gas	8673	0.06
Sb	121	1	No Gas	1300	0.48
Ba	137	1	No Gas	1700	0.59
Tl	205	1	No Gas	4244	0.10
Tl	203	1	No Gas	1660	0.47
Pb	208	1	No Gas	8201	0.05
U	238	1	No Gas	5418	0.07
Ca	43	2	He	53	81.19
Sb	121	2	He	500	2.88
Ti	47	2	He	27	162.38
Cu	63	1	No Gas	7609	0.06

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD

Calibration Blank Report

Li	6	1	No Gas	1709896	0.13
Ge	72	2	He	1177618	0.96
Ge	72	1	No Gas	4162003	0.40
In	115	1	No Gas	5301074	0.66

Calibration Blank Report

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Bi	209	1	No Gas	5272521	0.12

Calibration Standard Report

Sample Table

Sample Name	2/10/200
Data File Name	011CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T10:35:53-05:00
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	13333	0.02
V	51	2	He	23910	0.00
Cr	52	2	He	31466	0.00
Fe	56	2	He	2218555	0.00
Se	78	2	He	525	1.23
As	75	2	He	3928	0.12
Ca	44	2	He	15048	0.01
Na	23	2	He	622282	0.00
Mg	24	2	He	218868	0.00
K	39	2	He	372136	0.00
Mn	55	2	He	19250	0.01
Co	59	2	He	37254	0.01
Ni	60	2	He	10908	0.06
Cu	63	2	He	26112	0.01
Zn	66	2	He	7239	0.01
Al	27	2	He	3137	0.27
B	11	1	No Gas	53786	0.00
Al	27	1	No Gas	123569	0.00
Si	28	1	No Gas	568752	0.00
Ag	107	1	No Gas	73196	0.00
Cd	111	1	No Gas	14306	0.02
Sr	88	1	No Gas	137527	0.00
Mo	95	1	No Gas	26266	0.02
Sn	118	1	No Gas	50235	0.00
Sb	121	1	No Gas	63070	0.00
Ba	137	1	No Gas	24276	0.01
Tl	205	1	No Gas	131364	0.00
Tl	203	1	No Gas	55794	0.01
Pb	208	1	No Gas	220535	0.00
U	238	1	No Gas	223447	0.00
Ca	43	2	He	957	0.78
Sb	121	2	He	27265	0.01
Cu	63	1	No Gas	60252	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	1722227	0.78	1709896	100.72	70	120	
Ge	72	2	He	1193813	1.42	1177618	101.38	70	120	
Ge	72	1	No Gas	4204481	0.06	4162003	101.02	70	120	

Calibration Standard Report

In	115	1	No Gas	5309003	0.40	5301074	100.15	70	120	
Bi	209	1	No Gas	5216993	0.65	5272521	98.95	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\062524A.b
Acq Date Time	2024-06-25T10:38:34-05:00
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	31983	0.01
V	51	2	He	54555	0.01
Cr	52	2	He	70171	0.00
Fe	56	2	He	5508641	0.00
Se	78	2	He	981	0.44
As	75	2	He	9565	0.05
Ca	44	2	He	33828	0.01
Na	23	2	He	1151604	0.00
Mg	24	2	He	539864	0.00
K	39	2	He	748984	0.00
Mn	55	2	He	47141	0.00
Co	59	2	He	91278	0.00
Ni	60	2	He	24392	0.01
Cu	63	2	He	63848	0.00
Zn	66	2	He	13300	0.02
Al	27	2	He	5845	0.01
B	11	1	No Gas	106566	0.00
Al	27	1	No Gas	232171	0.00
Si	28	1	No Gas	759669	0.00
Ag	107	1	No Gas	178888	0.00
Cd	111	1	No Gas	35057	0.01
Sr	88	1	No Gas	337079	0.00
Mo	95	1	No Gas	65532	0.00
Sn	118	1	No Gas	120829	0.00
Sb	121	1	No Gas	153386	0.00
Ba	137	1	No Gas	59040	0.01
Tl	205	1	No Gas	317138	0.00
Tl	203	1	No Gas	135000	0.00
Pb	208	1	No Gas	539540	0.00
U	238	1	No Gas	548908	0.00
Ca	43	2	He	1970	0.12
Sb	121	2	He	67311	0.00
Cu	63	1	No Gas	137859	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	1676112	0.69	1709896	98.02	70	120	
Ge	72	2	He	1174067	0.85	1177618	99.70	70	120	
Ge	72	1	No Gas	4131653	0.14	4162003	99.27	70	120	

Calibration Standard Report

In	115	1	No Gas	5261198	0.45	5301074	99.25	70	120	
Bi	209	1	No Gas	5253119	0.02	5272521	99.63	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\062524A.b
Acq Date Time	2024-06-25T10:41:15-05:00
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	63340	0.00
V	51	2	He	105328	0.00
Cr	52	2	He	129189	0.00
Fe	56	2	He	11078721	0.00
Se	78	2	He	1851	0.25
As	75	2	He	18745	0.01
Ca	44	2	He	67564	0.00
Na	23	2	He	2041607	0.00
Mg	24	2	He	1092520	0.00
K	39	2	He	1400575	0.00
Mn	55	2	He	92012	0.00
Co	59	2	He	184354	0.00
Ni	60	2	He	49315	0.01
Cu	63	2	He	126313	0.00
Zn	66	2	He	25053	0.01
Al	27	2	He	8816	0.06
B	11	1	No Gas	198327	0.00
Al	27	1	No Gas	358455	0.00
Si	28	1	No Gas	1090528	0.00
Ag	107	1	No Gas	356861	0.00
Cd	111	1	No Gas	69462	0.00
Sr	88	1	No Gas	674026	0.00
Mo	95	1	No Gas	129939	0.00
Sn	118	1	No Gas	233896	0.00
Sb	121	1	No Gas	309005	0.00
Ba	137	1	No Gas	115501	0.00
Tl	205	1	No Gas	643602	0.00
Tl	203	1	No Gas	270993	0.00
Pb	208	1	No Gas	1082671	0.00
U	238	1	No Gas	1119428	0.00
Ca	43	2	He	4187	0.12
Sb	121	2	He	136043	0.00
Cu	63	1	No Gas	267931	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	1644381	0.55	1709896	96.17	70	120	
Ge	72	2	He	1156622	0.70	1177618	98.22	70	120	
Ge	72	1	No Gas	4103179	0.74	4162003	98.59	70	120	

Calibration Standard Report

In	115	1	No Gas	5237071	0.05	5301074	98.79	70	120	
Bi	209	1	No Gas	5239228	0.62	5272521	99.37	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\062524A.b
Acq Date Time	2024-06-25T10:43:54-05:00
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	581352	0.00
V	51	2	He	908004	0.00
Cr	52	2	He	1037560	0.00
Fe	56	2	He	97268009	0.00
Se	78	2	He	15265	0.01
As	75	2	He	163974	0.00
Ca	44	2	He	588568	0.00
Na	23	2	He	15964244	0.00
Mg	24	2	He	9738579	0.00
K	39	2	He	11552115	0.00
Mn	55	2	He	794929	0.00
Co	59	2	He	1592098	0.00
Ni	60	2	He	412945	0.00
Cu	63	2	He	1094631	0.00
Zn	66	2	He	207911	0.00
Al	27	2	He	64789	0.00
B	11	1	No Gas	1666849	0.00
Al	27	1	No Gas	2575882	0.00
Si	28	1	No Gas	6451698	0.00
Ag	107	1	No Gas	3227566	0.00
Cd	111	1	No Gas	644108	0.00
Sr	88	1	No Gas	6284169	0.00
Mo	95	1	No Gas	1199264	0.00
Sn	118	1	No Gas	2077682	0.00
Sb	121	1	No Gas	2843598	0.00
Ba	137	1	No Gas	1061875	0.00
Tl	205	1	No Gas	6160861	0.00
Tl	203	1	No Gas	2514077	0.00
Pb	208	1	No Gas	10140020	0.00
U	238	1	No Gas	10774259	0.00
Ca	43	2	He	34901	0.01
Sb	121	2	He	1214677	0.00
Cu	63	1	No Gas	2338535	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	1554162	0.75	1709896	90.89	70	120	
Ge	72	2	He	1137003	0.71	1177618	96.55	70	120	
Ge	72	1	No Gas	3991943	0.75	4162003	95.91	70	120	

Calibration Standard Report

In	115	1	No Gas	5033692	0.53	5301074	94.96	70	120	
Bi	209	1	No Gas	5121556	0.51	5272521	97.14	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\062524A.b
Acq Date Time	2024-06-25T10:46:33-05:00
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	1228024	0.00
V	51	2	He	2015090	0.00
Cr	52	2	He	2284257	0.00
Fe	56	2	He	216728677	0.00
Se	78	2	He	33953	0.01
As	75	2	He	363060	0.00
Ca	44	2	He	1324475	0.00
Na	23	2	He	35044964	0.00
Mg	24	2	He	21464943	0.00
K	39	2	He	25347164	0.00
Mn	55	2	He	1784314	0.00
Co	59	2	He	3527645	0.00
Ni	60	2	He	904124	0.00
Cu	63	2	He	2413664	0.00
Zn	66	2	He	453103	0.00
Al	27	2	He	140455	0.00
B	11	1	No Gas	3510760	0.00
Al	27	1	No Gas	5281948	0.00
Si	28	1	No Gas	12953964	0.00
Ag	107	1	No Gas	6738256	0.00
Cd	111	1	No Gas	1343775	0.00
Sr	88	1	No Gas	13219902	0.00
Mo	95	1	No Gas	2555597	0.00
Sn	118	1	No Gas	4348892	0.00
Sb	121	1	No Gas	5937646	0.00
Ba	137	1	No Gas	2235830	0.00
Tl	205	1	No Gas	13615678	0.00
Tl	203	1	No Gas	5571897	0.00
Pb	208	1	No Gas	21106063	0.00
U	238	1	No Gas	22922825	0.00
Ca	43	2	He	76872	0.00
Sb	121	2	He	2708541	0.00
Cu	63	1	No Gas	4848459	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	1464768	0.54	1709896	85.66	70	120	
Ge	72	2	He	1109115	0.93	1177618	94.18	70	120	
Ge	72	1	No Gas	3874294	0.76	4162003	93.09	70	120	

Calibration Standard Report

In	115	1	No Gas	4903059	0.84	5301074	92.49	70	120	
Bi	209	1	No Gas	4969672	0.50	5272521	94.26	70	120	

Calibration Standard Report

Sample Table

Sample Name	100/500/10K
Data File Name	017CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T10:54:32-05:00
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	612588	0.00
V	51	2	He	984012	0.00
Cr	52	2	He	1126568	0.00
Fe	56	2	He	106286848	0.00
Se	78	2	He	16651	0.01
As	75	2	He	179058	0.00
Ca	44	2	He	643072	0.00
Na	23	2	He	17407033	0.00
Mg	24	2	He	10626664	0.00
K	39	2	He	12591436	0.00
Mn	55	2	He	867052	0.00
Co	59	2	He	1739956	0.00
Ni	60	2	He	449401	0.00
Cu	63	2	He	1193031	0.00
Zn	66	2	He	224988	0.00
Al	27	2	He	70232	0.00
B	11	1	No Gas	1751959	0.00
Al	27	1	No Gas	2713648	0.00
Si	28	1	No Gas	6734428	0.00
Ag	107	1	No Gas	3362962	0.00
Cd	111	1	No Gas	665671	0.00
Sr	88	1	No Gas	6609469	0.00
Mo	95	1	No Gas	1260475	0.00
Sn	118	1	No Gas	2179719	0.00
Sb	121	1	No Gas	2970035	0.00
Ba	137	1	No Gas	1110159	0.00
Tl	205	1	No Gas	6510475	0.00
Tl	203	1	No Gas	2656536	0.00
Pb	208	1	No Gas	10524649	0.00
U	238	1	No Gas	11219859	0.00
Ca	43	2	He	37855	0.01
Sb	121	2	He	1320041	0.00
Cu	63	1	No Gas	2461636	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	1556073	1.17	1709896	91.00	70	120	
Ge	72	2	He	1138105	0.66	1177618	96.64	70	120	
Ge	72	1	No Gas	3977894	0.15	4162003	95.58	70	120	

Calibration Standard Report

In	115	1	No Gas	5036650	0.07	5301074	95.01	70	120	
Bi	209	1	No Gas	5086381	0.08	5272521	96.47	70	120	

Initial Calibration Verification (ICV) Report

Sample Table

Sample Name	ICV
Data File Name	019_ICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T11:01:54-05:00
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	95.871	1.776	2477598	2.06	100	95.9	90	110	
Be	9	1	No Gas	95.306	1.015	613254	1.35	100	95.3	90	110	
V	51	2	He	98.092	0.893	1017721	1.43	100	98.1	90	110	
Cr	52	2	He	98.598	1.093	1164623	1.58	100	98.6	90	110	
Fe	56	2	He	9861.289	1.490	109936638	2.03	10000	98.6	90	110	
Se	78	2	He	97.877	1.349	17155	1.85	100	97.9	90	110	
As	75	2	He	98.763	0.994	184752	1.52	100	98.8	90	110	
Ca	44	2	He	9802.618	0.378	666948	0.92	10000	98.0	90	110	
Na	23	2	He	9777.302	0.907	17781675	1.44	10000	97.8	90	110	
Mg	24	2	He	9883.176	1.216	10931537	1.76	10000	98.8	90	110	
K	39	2	He	9921.599	0.961	13012715	1.50	10000	99.2	90	110	
Mn	55	2	He	97.656	0.796	895301	1.34	100	97.7	90	110	
Co	59	2	He	98.666	1.494	1792522	2.03	100	98.7	90	110	
Ni	60	2	He	99.460	0.823	464241	1.36	100	99.5	90	110	
Cu	63	2	He	99.362	0.996	1235786	1.53	100	99.4	90	110	
Zn	66	2	He	99.966	0.642	234115	1.15	100	100.0	90	110	
Al	27	2	He	101.737	2.568	74554	2.95	100	101.7	90	110	
B	11	1	No Gas	469.956	0.909	1736412	1.24	500	94.0	90	110	
Al	27	1	No Gas	99.504	2.059	2749289	1.19	100	99.5	90	110	
Si	28	1	No Gas	492.953	2.482	6792772	1.49	500	98.6	90	110	
Ag	107	1	No Gas	99.433	1.708	3431750	1.50	100	99.4	90	110	
Cd	111	1	No Gas	97.871	1.440	672557	1.14	100	97.9	90	110	
Sr	88	1	No Gas	97.963	1.530	6635403	1.24	100	98.0	90	110	
Mo	95	1	No Gas	96.685	1.412	1262472	1.16	100	96.7	90	110	
Sn	118	1	No Gas	98.713	1.895	2203408	1.52	100	98.7	90	110	
Sb	121	1	No Gas	98.604	2.907	3012111	2.12	100	98.6	90	110	
Ba	137	1	No Gas	97.648	2.889	1117428	2.50	100	97.6	90	110	
Tl	205	1	No Gas	97.837	2.122	6681790	2.71	100	97.8	90	110	
Tl	203	1	No Gas	97.160	2.663	2714235	3.28	100	97.2	90	110	
Pb	208	1	No Gas	98.592	1.218	10524480	1.83	100	98.6	90	110	
U	238	1	No Gas	95.856	1.548	11070984	2.15	100	95.9	90	110	
Ca	43	2	He	9910.856	1.235	39239	1.52	10000	99.1	90	110	
Sb	121	2	He	98.221	0.539	1366677	1.08	100	98.2	90	110	
Ti	47	2	He	100.656	2.412	39891	2.74	100	100.7	90	110	
Cu	63	1	No Gas	99.190	2.506	2484232	1.66	100	99.2	90	110	
Se	82	1	No Gas	97.658	1.291	41628	0.52	100	97.7	90	110	
Zr	90	1	No Gas	88.101	1.460	3718324	1.12	100	88.1	90	110	ICV Main CR1 Failed
Zr	90	2	He	88.507	1.126	1519598	1.67	100	88.5	90	1100	ICV Main CR1 Failed

QC ISTD Table

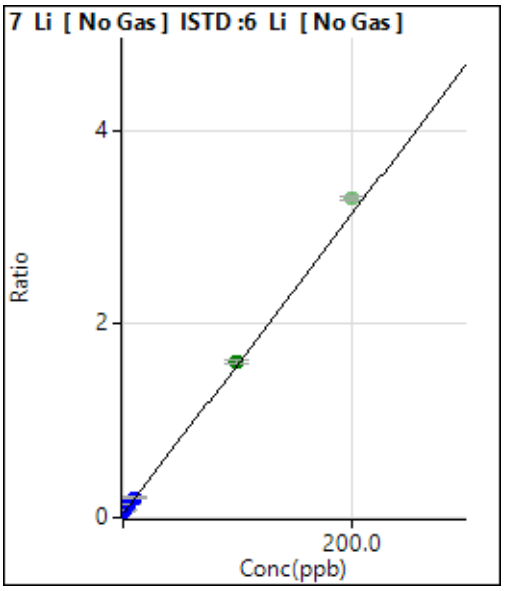
Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1553694	0.38	1709896	90.86	70	120	
Ge	72	2	He	1150873	0.55	1177618	97.73	70	120	
Ge	72	1	No Gas	4006990	0.84	4162003	96.28	70	120	
In	115	1	No Gas	5050272	0.39	5301074	95.27	70	120	
Bi	209	1	No Gas	5051591	0.62	5272521	95.81	70	120	

Calibration for 019_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\062524A.b\
Analysis File: 062524A.batch.bin
DA Date-Time: 6/26/2024 8:26:09 AM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	010CALB.d	CAL BLK	6/25/2024 10:33:10 AM
2	011CALS.d	2/10/200	6/25/2024 10:35:53 AM
3	012CALS.d	5/25/500	6/25/2024 10:38:34 AM
4	013CALS.d	10/50/100	6/25/2024 10:41:15 AM
5	017CALS.d	100/500/10K	6/25/2024 10:54:32 AM
6	015CALS.d	200/1000/20K	6/25/2024 10:46:33 AM

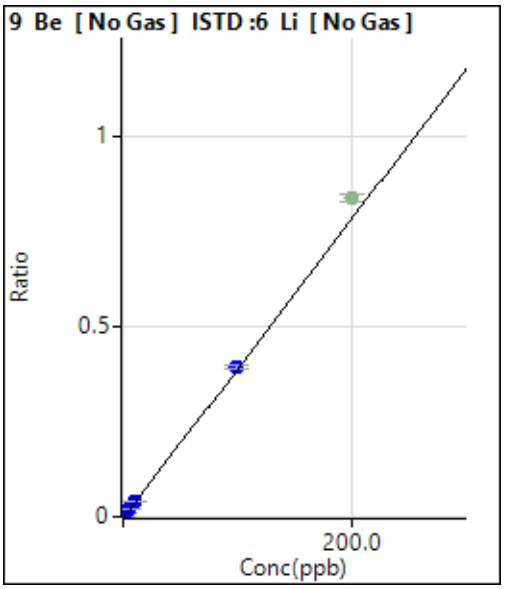
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	95109.43	0.0556	P	0.2	
2	☐	2.000	1.920	146884.63	0.0853	P	1.6	-4.0
3	☐	5.000	4.841	218591.44	0.1304	P	1.3	-3.2
4	☐	10.000	9.815	340796.34	0.2073	P	1.2	-1.9
5	☐	100.000	100.028	2490753.19	1.6010	A	2.6	0.0
6	☑	200.000		4828676.80	3.2967	A	1.3	

y = 0.0154 * x + 0.0556
R = 1.0000
DL = 0.02597 ppb
BEC = 3.6 ppb

Weight: <None>
Min Conc: <None>

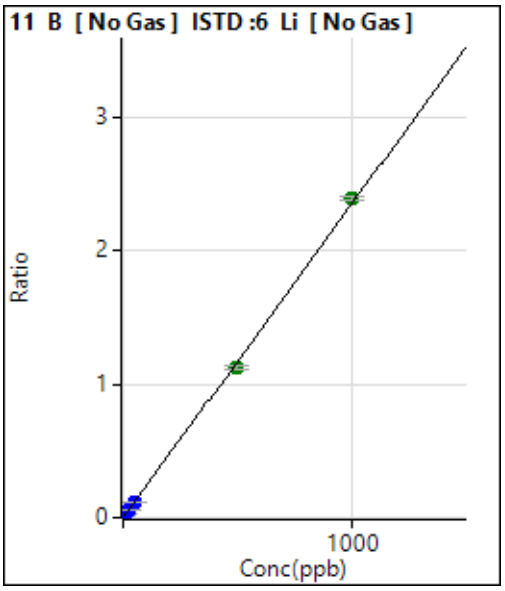


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	370.01	0.0002	P	5.8	
2	☐	2.000	1.913	13332.98	0.0077	P	2.5	-4.3
3	☐	5.000	4.795	31982.57	0.0191	P	2.3	-4.1
4	☐	10.000	9.736	63339.98	0.0385	P	1.5	-2.6
5	☐	100.000	100.038	612588.03	0.3938	P	2.9	0.0
6	☑	200.000		1228024.38	0.8384	A	2.0	

y = 0.0039 * x + 2.1639E-004
R = 1.0000
DL = 0.009619 ppb
BEC = 0.055 ppb

Weight: <None>
Min Conc: <None>

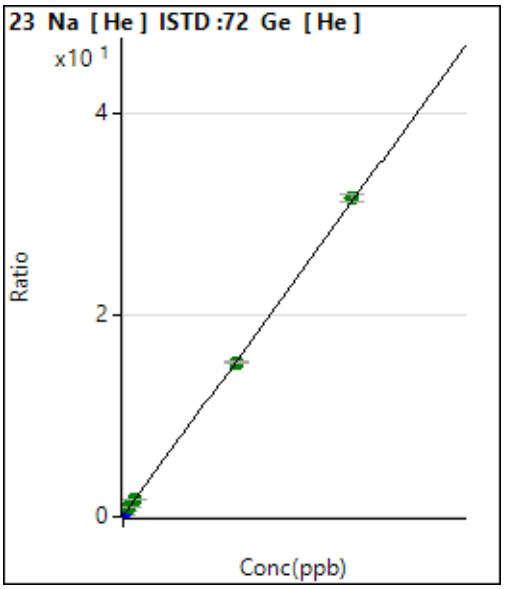
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	19585.24	0.0115	P	1.0	
2	☐	10.000	8.404	53786.34	0.0312	P	2.6	-16.0
3	☐	25.000	22.147	106565.72	0.0636	P	0.9	-11.4
4	☐	50.000	46.381	198326.89	0.1206	P	2.3	-7.2
5	☐	500.000	473.544	1751959.19	1.1260	A	1.6	-5.3
6	☐	1000.000	1013.496	3510760.36	2.3969	A	1.3	1.3

y = 0.0024 * x + 0.0115
R = 0.9995
DL = 0.1393 ppb
BEC = 4.866 ppb

Weight: <None>
Min Conc: <None>

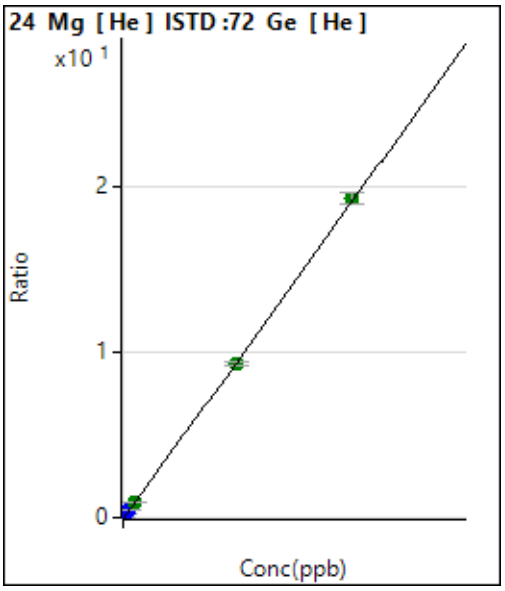


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	288606.42	0.2451	P	1.4	
2	☐	200.000	177.589	622281.82	0.5213	P	1.0	-11.2
3	☐	500.000	473.179	1151604.43	0.9810	A	1.8	-5.4
4	☐	1000.000	977.456	2041607.21	1.7652	A	1.2	-2.3
5	☐	10000.00	9676.744	17407033.07	15.2937	A	1.6	-3.2
6	☐	20000.00	20163.65	3504496448	31.6022	A	2.8	0.8

y = 0.0016 * x + 0.2451
R = 0.9998
DL = 6.411 ppb
BEC = 157.6 ppb

Weight: <None>
Min Conc: <None>

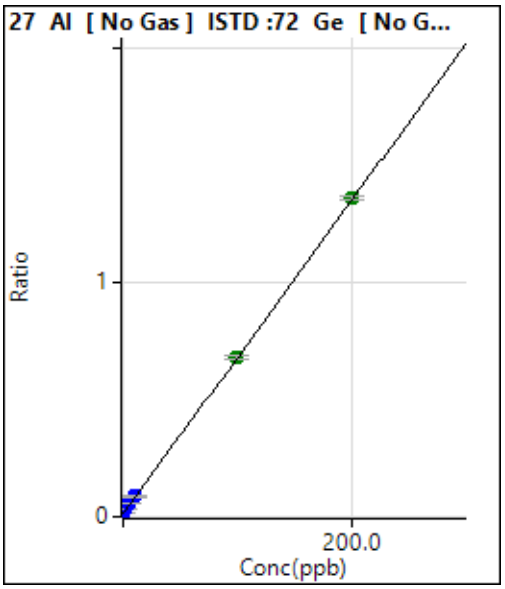
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2800.34	0.0024	P	2.9	
2	☐	200.000	188.332	218868.20	0.1833	P	2.1	-5.8
3	☐	500.000	476.135	539864.42	0.4598	P	1.8	-4.8
4	☐	1000.000	980.631	1092519.88	0.9446	A	1.5	-1.9
5	☐	10000.00	9714.978	10626664.43	9.3364	A	1.8	-2.9
6	☐	20000.00	20144.19	21464943.01	19.3567	A	3.2	0.7

y = 9.6079E-004 * x + 0.0024
R = 0.9999
DL = 0.2145 ppb
BEC = 2.475 ppb

Weight: <None>
Min Conc: <None>

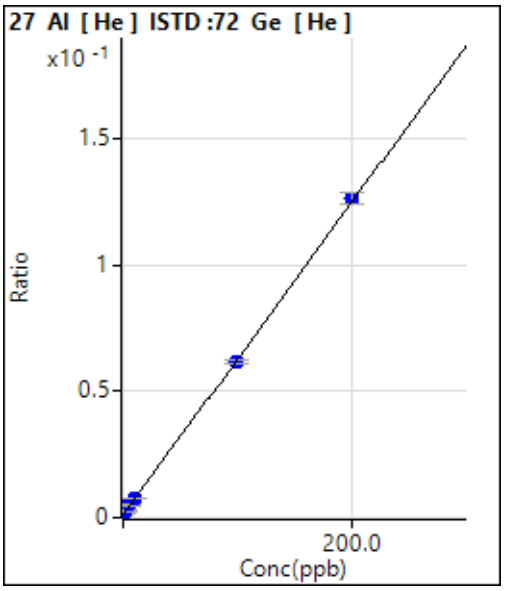


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	79772.13	0.0192	P	2.2	
2	☐	2.000	1.525	123569.26	0.0294	P	2.4	-23.8
3	☐	5.000	5.524	232171.49	0.0562	P	7.8	10.5
4	☐	10.000	10.174	358454.78	0.0874	P	2.6	1.7
5	☐	100.000	98.905	2713647.56	0.6822	A	1.7	-1.1
6	☐	200.000	200.531	5281947.84	1.3634	A	1.7	0.3

y = 0.0067 * x + 0.0192
R = 1.0000
DL = 0.1901 ppb
BEC = 2.859 ppb

Weight: <None>
Min Conc: <None>

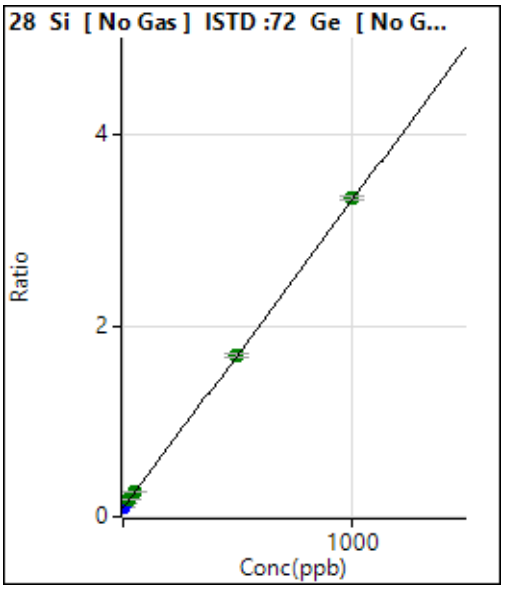
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2066.86	0.0018	P	3.4	
2	☐	2.000	1.406	3137.07	0.0026	P	7.0	-29.7
3	☐	5.000	5.203	5844.66	0.0050	P	1.6	4.1
4	☐	10.000	9.473	8816.28	0.0076	P	5.9	-5.3
5	☐	100.000	96.780	70231.85	0.0617	P	3.0	-3.2
6	☐	200.000	201.637	140454.75	0.1267	P	3.5	0.8

y = 6.1944E-004 * x + 0.0018
R = 0.9998
DL = 0.2864 ppb
BEC = 2.834 ppb

Weight: <None>
Min Conc: <None>

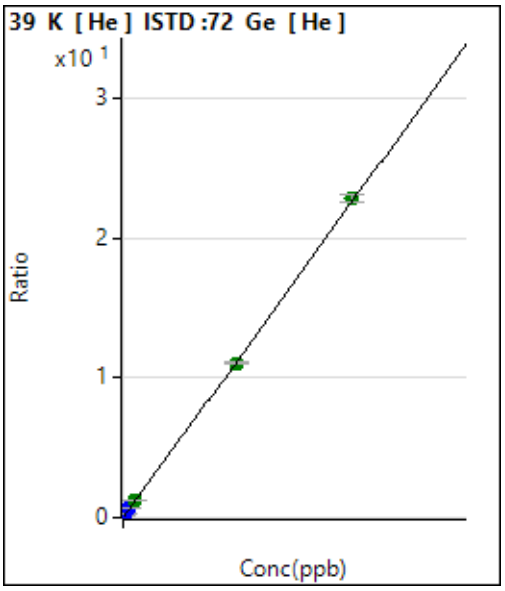


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	438318.65	0.1053	P	0.4	
2	☐	10.000	9.287	568752.14	0.1353	P	0.2	-7.1
3	☐	25.000	24.351	759668.97	0.1839	A	0.1	-2.6
4	☐	50.000	49.749	1090527.61	0.2658	A	1.3	-0.5
5	☐	500.000	492.180	6734428.23	1.6930	A	1.8	-1.6
6	☐	1000.000	1003.946	12953963.98	3.3438	A	1.5	0.4

y = 0.0032 * x + 0.1053
R = 1.0000
DL = 0.4316 ppb
BEC = 32.65 ppb

Weight: <None>
Min Conc: <None>

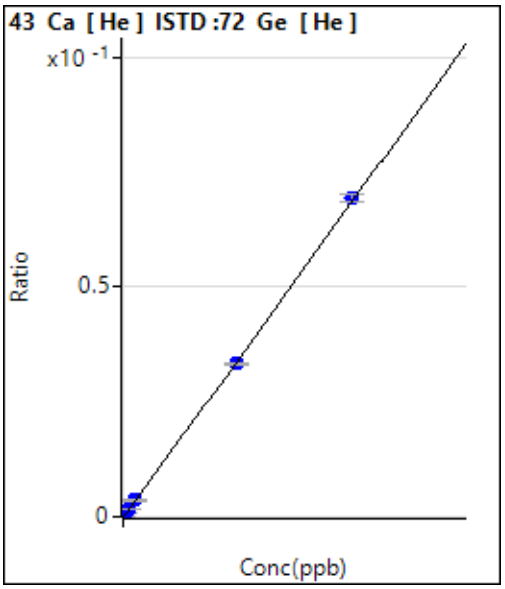
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	119097.76	0.1011	P	0.3	
2	☐	200.000	186.455	372135.50	0.3117	P	0.3	-6.8
3	☐	500.000	475.349	748983.87	0.6380	P	1.9	-4.9
4	☐	1000.000	982.636	1400574.72	1.2109	A	1.3	-1.7
5	☐	10000.00	9705.924	12591435.65	11.0629	A	1.7	-2.9
6	☐	20000.00	20148.65	25347163.79	22.8567	A	2.3	0.7

y = 0.0011 * x + 0.1011
R = 0.9999
DL = 0.6747 ppb
BEC = 89.55 ppb

Weight: <None>
Min Conc: <None>

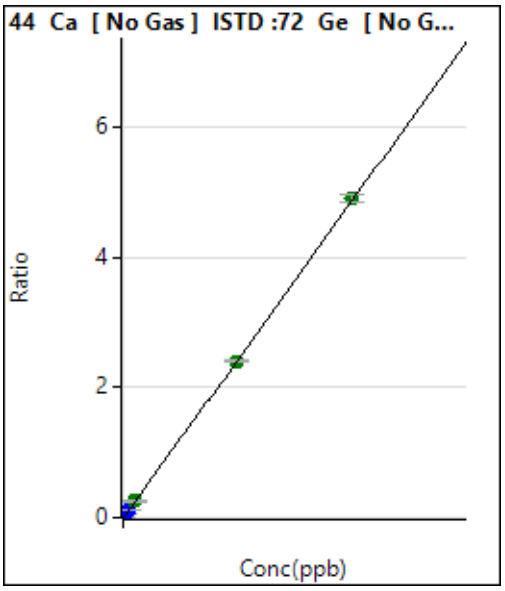


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	53.33	0.0000	P	44.0	
2	☐	200.000	220.012	956.72	0.0008	P	6.9	10.0
3	☐	500.000	475.202	1970.17	0.0017	P	1.5	-5.0
4	☐	1000.000	1040.743	4187.37	0.0036	P	5.6	4.1
5	☐	10000.00	9668.254	37855.14	0.0333	P	1.7	-3.3
6	☐	20000.00	20164.25	76871.75	0.0693	P	2.5	0.8

y = 3.4355E-006 * x + 4.5378E-005
R = 0.9998
DL = 17.45 ppb
BEC = 13.21 ppb

Weight: <None>
Min Conc: <None>

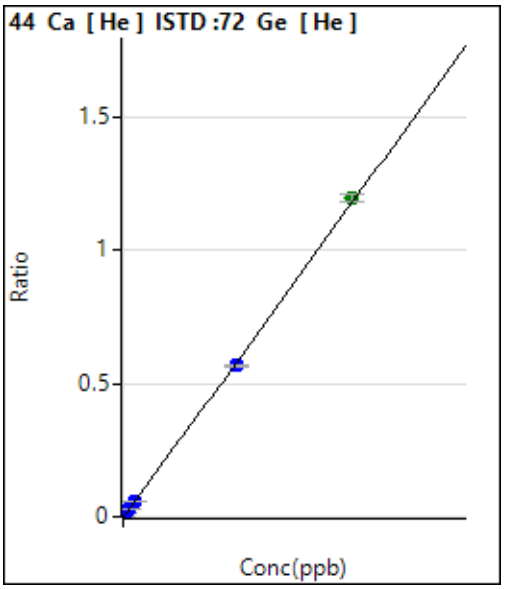
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	54075.33	0.0130	P	1.7	
2	☐	200.000	198.146	257829.67	0.0613	P	1.6	-0.9
3	☐	500.000	486.430	543875.83	0.1316	P	2.3	-2.7
4	☐	1000.000	981.332	1035362.72	0.2524	A	1.5	-1.9
5	☐	10000.00	9825.374	9584837.57	2.4095	A	2.1	-1.7
6	☐	20000.00	20088.60	19032093.05	4.9128	A	2.3	0.4

y = 2.4391E-004 * x + 0.0130
R = 0.9999
DL = 2.69 ppb
BEC = 53.27 ppb

Weight: <None>
Min Conc: <None>

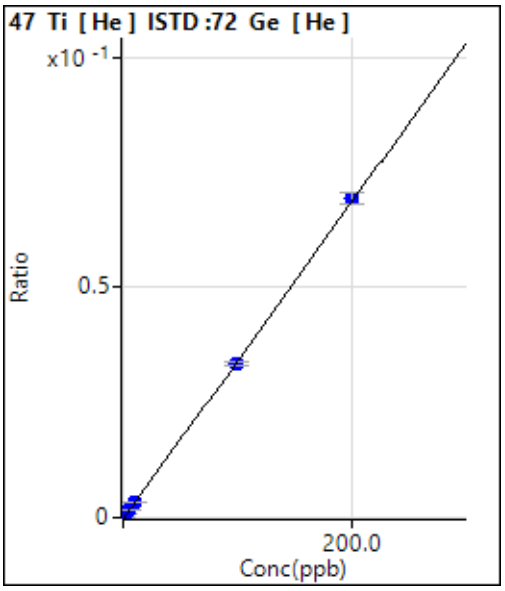


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1370.09	0.0012	P	15.2	
2	☐	200.000	193.959	15048.30	0.0126	P	2.3	-3.0
3	☐	500.000	468.624	33828.14	0.0288	P	1.5	-6.3
4	☐	1000.000	970.349	67563.50	0.0584	P	2.2	-3.0
5	☐	10000.00	9557.200	643072.29	0.5650	P	1.4	-4.4
6	☐	20000.00	20223.72	1324475.06	1.1943	A	2.6	1.1

y = 5.8999E-005 * x + 0.0012
R = 0.9997
DL = 9 ppb
BEC = 19.72 ppb

Weight: <None>
Min Conc: <None>

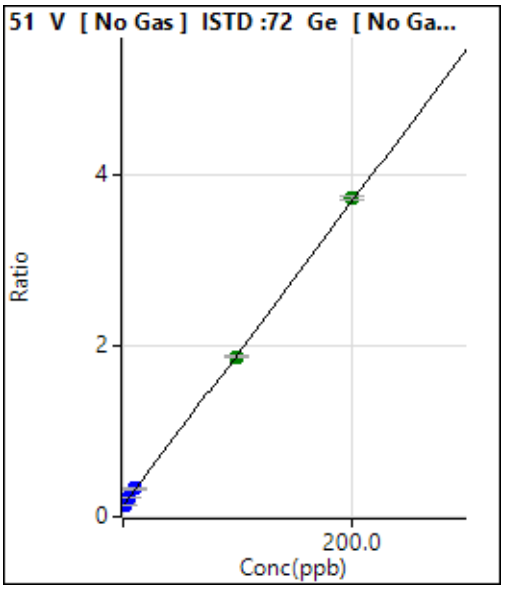
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	26.67	0.0000	P	44.0	
2	☐	2.000	1.824	776.70	0.0007	P	5.7	-8.8
3	☐	5.000	4.469	1833.49	0.0016	P	12.4	-10.6
4	☐	10.000	9.439	3783.92	0.0033	P	4.4	-5.6
5	☐	100.000	97.296	38132.74	0.0335	P	2.0	-2.7
6	☐	200.000	201.395	76872.09	0.0693	P	3.7	0.7

y = 3.4411E-004 * x + 2.2689E-005
R = 0.9999
DL = 0.08712 ppb
BEC = 0.06593 ppb

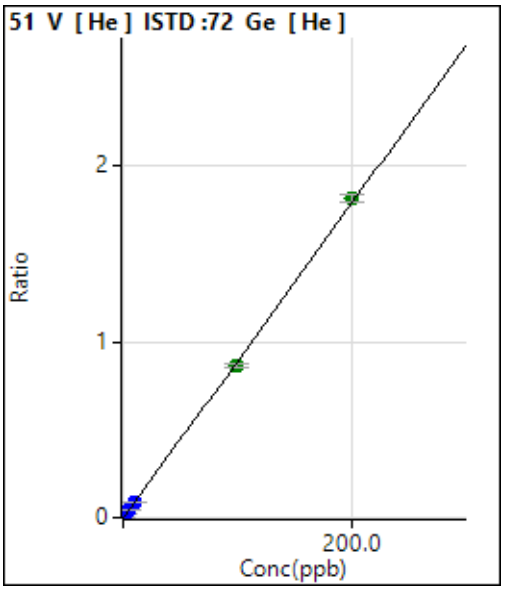
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	623488.18	0.1498	P	1.4	
2	☐	2.000	-0.404	599723.22	0.1426	P	1.6	-120.2
3	☐	5.000	4.124	921434.11	0.2230	P	1.8	-17.5
4	☐	10.000	9.910	1336488.84	0.3257	P	1.1	-0.9
5	☐	100.000	96.962	7443170.55	1.8711	A	1.6	-3.0
6	☐	200.000	201.570	14443088.49	3.7282	A	1.8	0.8

y = 0.0178 * x + 0.1498
R = 0.9998
DL = 0.3599 ppb
BEC = 8.439 ppb

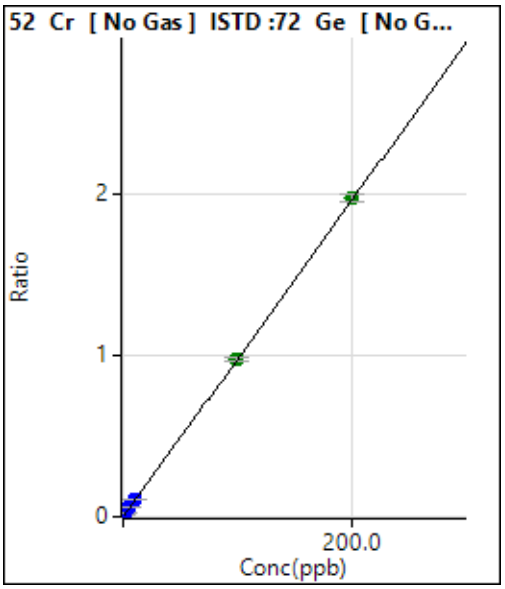
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5106.53	0.0043	P	1.3	
2	☐	2.000	1.750	23909.53	0.0200	P	1.6	-12.5
3	☐	5.000	4.697	54554.53	0.0465	P	2.7	-6.1
4	☐	10.000	9.668	105327.92	0.0911	P	2.7	-3.3
5	☐	100.000	95.893	984011.87	0.8645	A	1.7	-4.1
6	☐	200.000	202.080	2015089.64	1.8171	A	3.0	1.0

y = 0.0090 * x + 0.0043
R = 0.9997
DL = 0.01826 ppb
BEC = 0.4834 ppb

Weight: <None>
Min Conc: <None>

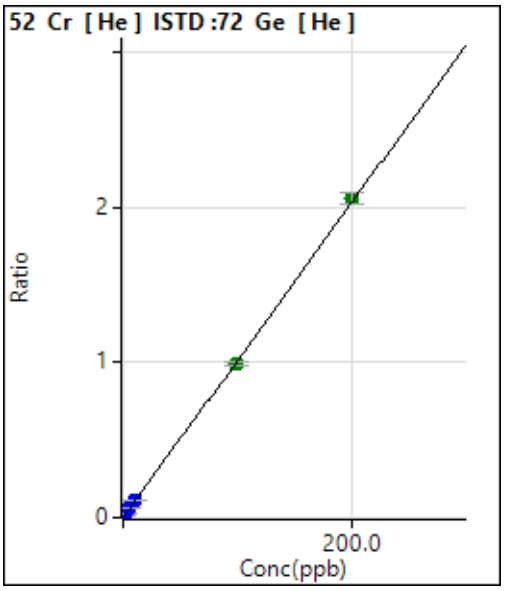


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	37434.31	0.0090	P	2.1	
2	☐	2.000	1.766	110679.48	0.0263	P	1.8	-11.7
3	☐	5.000	4.828	232859.77	0.0564	P	1.3	-3.4
4	☐	10.000	9.872	434256.59	0.1058	P	1.5	-1.3
5	☐	100.000	98.544	3881322.96	0.9757	A	1.8	-1.5
6	☐	200.000	200.741	7663884.26	1.9783	A	1.9	0.4

y = 0.0098 * x + 0.0090
R = 1.0000
DL = 0.05682 ppb
BEC = 0.9169 ppb

Weight: <None>
Min Conc: <None>

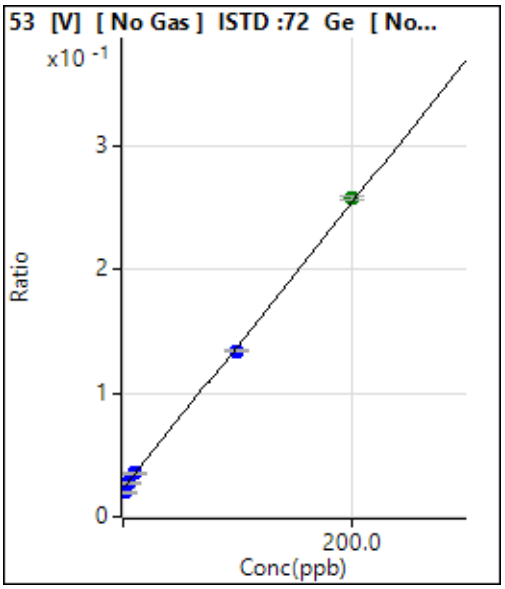
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	12652.62	0.0107	P	4.0	
2	☐	2.000	1.538	31466.12	0.0264	P	1.3	-23.1
3	☐	5.000	4.828	70170.90	0.0598	P	2.5	-3.4
4	☐	10.000	9.941	129188.69	0.1117	P	2.7	-0.6
5	☐	100.000	96.416	1126568.11	0.9898	A	2.4	-3.6
6	☐	200.000	201.804	2284256.84	2.0599	A	3.2	0.9

y = 0.0102 * x + 0.0107
R = 0.9998
DL = 0.1276 ppb
BEC = 1.058 ppb

Weight: <None>
Min Conc: <None>

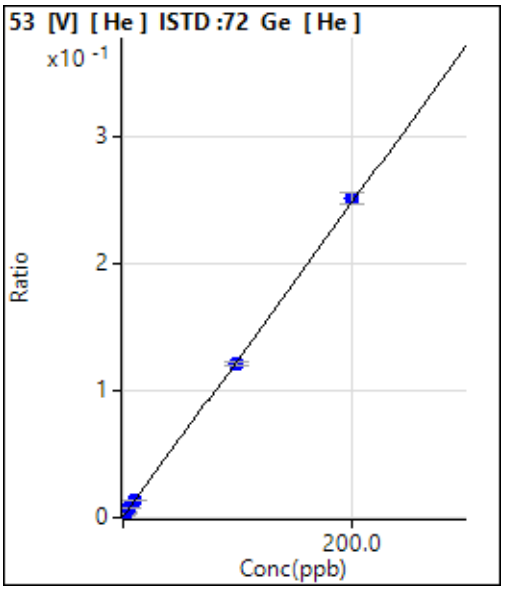


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	101036.73	0.0243	P	1.8	
2	☐	2.000	-4.140	81968.87	0.0195	P	2.1	-307.0
3	☐	5.000	2.731	113331.30	0.0274	P	2.6	-45.4
4	☐	10.000	9.394	144120.20	0.0351	P	0.9	-6.1
5	☐	100.000	95.281	534242.26	0.1343	P	1.3	-4.7
6	☐	200.000	202.508	999993.19	0.2581	A	1.4	1.3

y = 0.0012 * x + 0.0243
R = 0.9994
DL = 1.125 ppb
BEC = 21.02 ppb

Weight: <None>
Min Conc: <None>

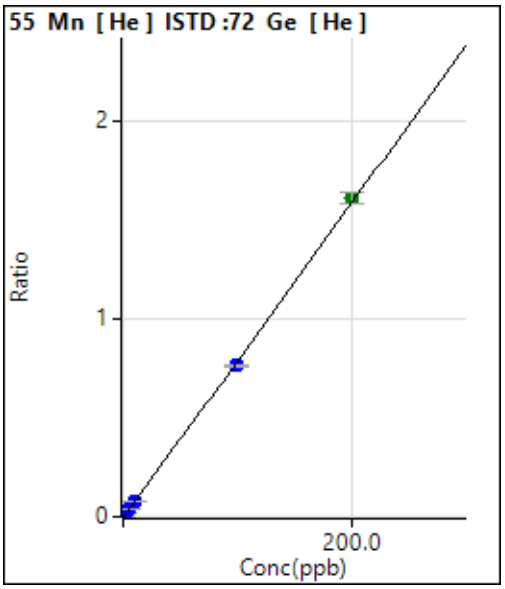
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2336.92	0.0020	P	0.1	
2	☐	2.000	1.449	4500.82	0.0038	P	3.2	-27.5
3	☐	5.000	4.493	8833.00	0.0075	P	6.0	-10.1
4	☐	10.000	9.573	15946.03	0.0138	P	1.4	-4.3
5	☐	100.000	96.223	137279.10	0.1206	P	2.1	-3.8
6	☐	200.000	201.928	278261.94	0.2509	P	3.1	1.0

y = 0.0012 * x + 0.0020
R = 0.9998
DL = 0.003174 ppb
BEC = 1.61 ppb

Weight: <None>
Min Conc: <None>

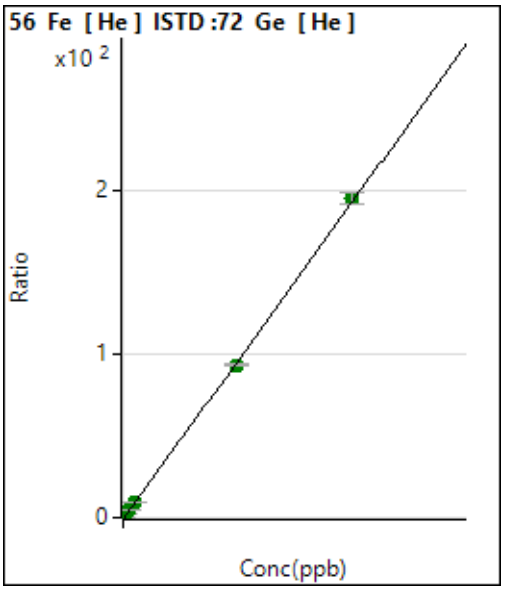


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1773.48	0.0015	P	5.5	
2	☐	2.000	1.839	19250.32	0.0161	P	2.2	-8.0
3	☐	5.000	4.861	47140.58	0.0402	P	1.7	-2.8
4	☐	10.000	9.816	92011.73	0.0795	P	2.8	-1.8
5	☐	100.000	95.630	867052.17	0.7618	P	1.4	-4.4
6	☐	200.000	202.199	1784314.40	1.6091	A	3.4	1.1

y = 0.0080 * x + 0.0015
R = 0.9997
DL = 0.03105 ppb
BEC = 0.1895 ppb

Weight: <None>
Min Conc: <None>

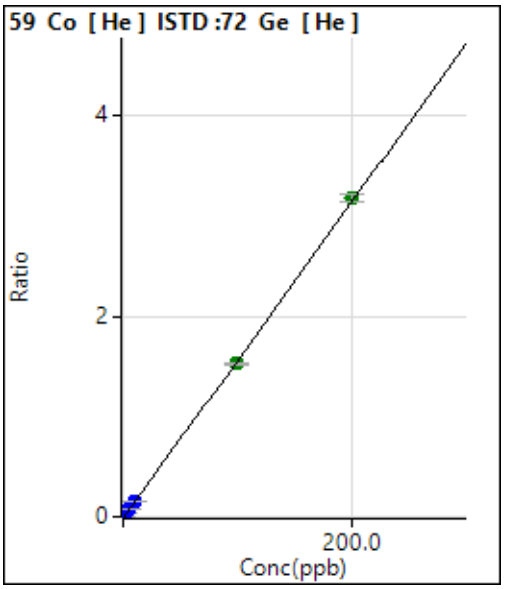
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	43278.54	0.0367	P	0.9	
2	☐	200.000	188.123	2218554.55	1.8583	A	1.2	-5.9
3	☐	500.000	480.763	5508640.75	4.6918	A	2.3	-3.8
4	☐	1000.000	985.434	11078721.09	9.5783	A	2.2	-1.5
5	☐	10000.00	9640.722	106286848.4	93.3839	A	1.3	-3.6
6	☐	20000.00	20180.96	216728676.7	195.440	A	3.2	0.9

y = 0.0097 * x + 0.0367
R = 0.9998
DL = 0.1028 ppb
BEC = 3.795 ppb

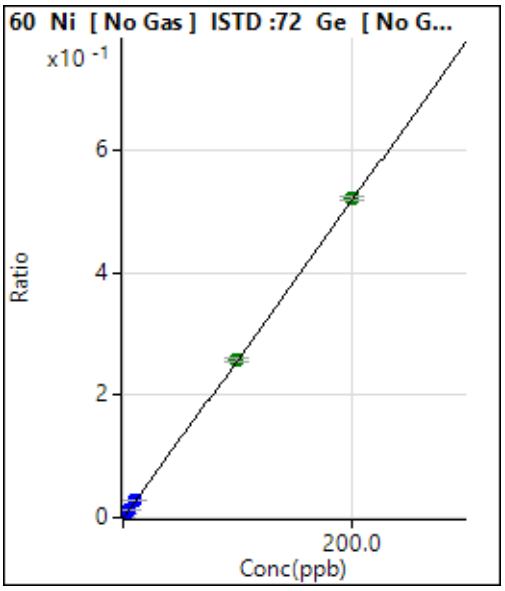
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1033.39	0.0009	P	12.3	
2	☐	2.000	1.923	37253.94	0.0312	P	4.1	-3.9
3	☐	5.000	4.873	91277.55	0.0777	P	3.4	-2.5
4	☐	10.000	10.047	184353.51	0.1594	P	2.7	0.5
5	☐	100.000	96.844	1739956.22	1.5287	A	1.6	-3.2
6	☐	200.000	201.580	3527645.26	3.1810	A	2.4	0.8

y = 0.0158 * x + 8.7793E-004
R = 0.9998
DL = 0.02052 ppb
BEC = 0.05565 ppb

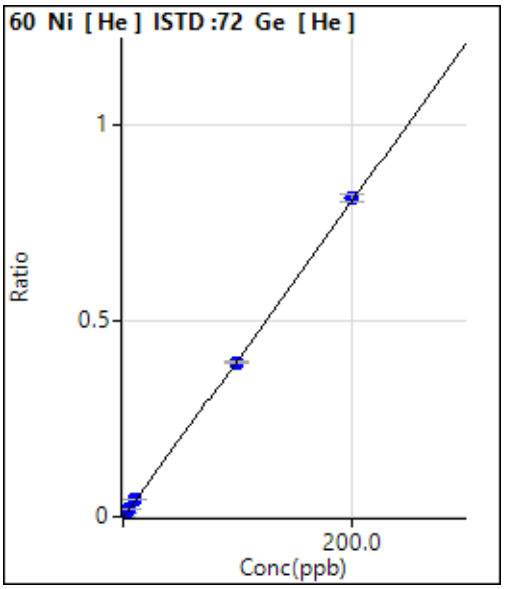
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4237.40	0.0010	P	1.1	
2	☐	2.000	1.918	25250.18	0.0060	P	1.5	-4.1
3	☐	5.000	4.998	57898.44	0.0140	P	2.2	0.0
4	☐	10.000	10.113	112049.36	0.0273	P	1.1	1.1
5	☐	100.000	98.616	1023925.77	0.2574	A	2.1	-1.4
6	☐	200.000	200.687	2025283.09	0.5228	A	1.4	0.3

y = 0.0026 * x + 0.0010
R = 1.0000
DL = 0.01257 ppb
BEC = 0.3916 ppb

Weight: <None>
Min Conc: <None>

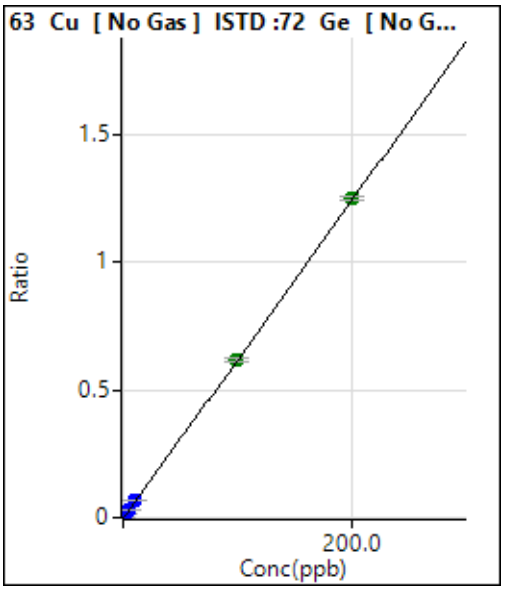


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1370.09	0.0012	P	2.3	
2	☐	2.000	1.973	10907.82	0.0091	P	7.7	-1.3
3	☐	5.000	4.850	24391.83	0.0208	P	2.6	-3.0
4	☐	10.000	10.255	49315.27	0.0426	P	2.2	2.6
5	☐	100.000	97.350	449400.83	0.3948	P	1.8	-2.7
6	☐	200.000	201.316	904123.53	0.8153	P	2.0	0.7

y = 0.0040 * x + 0.0012
R = 0.9999
DL = 0.0196 ppb
BEC = 0.2877 ppb

Weight: <None>
Min Conc: <None>

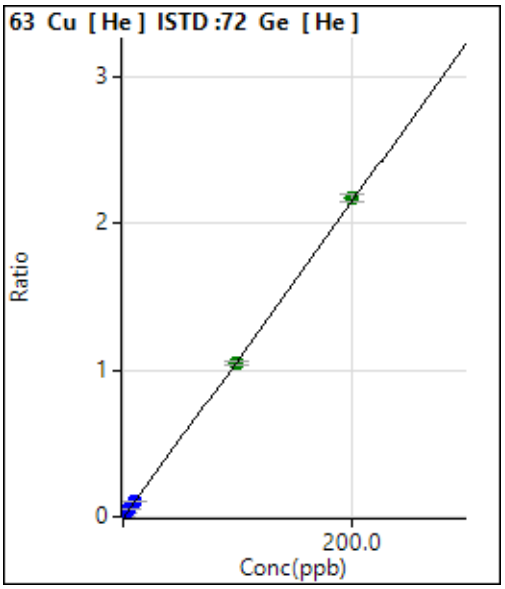
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	7608.90	0.0018	P	4.3	
2	☐	2.000	2.006	60252.13	0.0143	P	3.6	0.3
3	☐	5.000	5.060	137858.86	0.0334	P	2.6	1.2
4	☐	10.000	10.184	267930.58	0.0653	P	2.0	1.8
5	☐	100.000	98.992	2461635.85	0.6188	A	1.8	-1.0
6	☐	200.000	200.493	4848458.99	1.2515	A	1.2	0.2

y = 0.0062 * x + 0.0018
R = 1.0000
DL = 0.03749 ppb
BEC = 0.2933 ppb

Weight: <None>
Min Conc: <None>

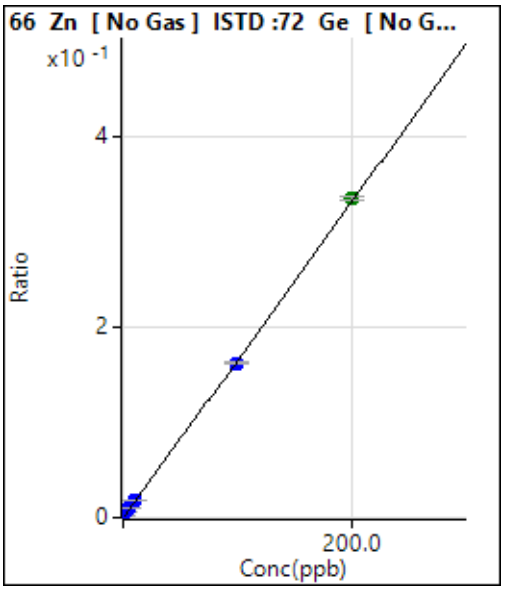


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1290.09	0.0011	P	16.3	
2	☐	2.000	1.925	26111.82	0.0219	P	2.4	-3.8
3	☐	5.000	4.936	63848.37	0.0544	P	1.2	-1.3
4	☐	10.000	10.015	126312.89	0.1092	P	0.4	0.1
5	☐	100.000	96.995	1193030.61	1.0482	A	1.7	-3.0
6	☐	200.000	201.504	2413664.39	2.1764	A	1.8	0.8

y = 0.0108 * x + 0.0011
R = 0.9998
DL = 0.04961 ppb
BEC = 0.1014 ppb

Weight: <None>
Min Conc: <None>

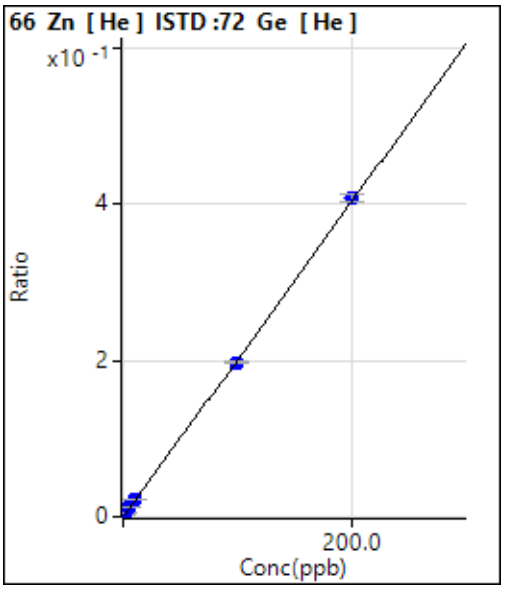
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4424.13	0.0011	P	4.0	
2	☐	2.000	2.492	21897.70	0.0052	P	3.4	24.6
3	☐	5.000	5.019	38885.42	0.0094	P	4.4	0.4
4	☐	10.000	10.061	73027.29	0.0178	P	1.2	0.6
5	☐	100.000	97.306	648074.41	0.1629	P	2.0	-2.7
6	☐	200.000	201.339	1301588.63	0.3360	A	1.5	0.7

y = 0.0017 * x + 0.0011
R = 0.9999
DL = 0.07603 ppb
BEC = 0.639 ppb

Weight: <None>
Min Conc: <None>

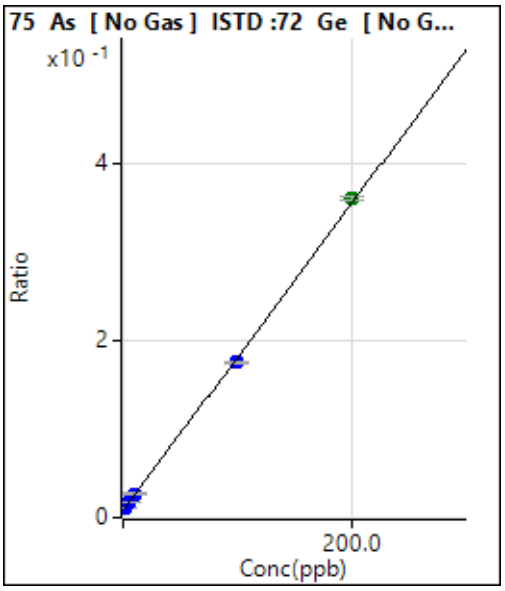


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1546.78	0.0013	P	6.9	
2	☐	2.000	2.350	7238.72	0.0061	P	0.9	17.5
3	☐	5.000	4.954	13299.97	0.0113	P	3.7	-0.9
4	☐	10.000	10.064	25053.27	0.0217	P	1.3	0.6
5	☐	100.000	97.122	224987.90	0.1977	P	1.9	-2.9
6	☐	200.000	201.433	453103.39	0.4086	P	2.6	0.7

y = 0.0020 * x + 0.0013
R = 0.9998
DL = 0.1336 ppb
BEC = 0.6498 ppb

Weight: <None>
Min Conc: <None>

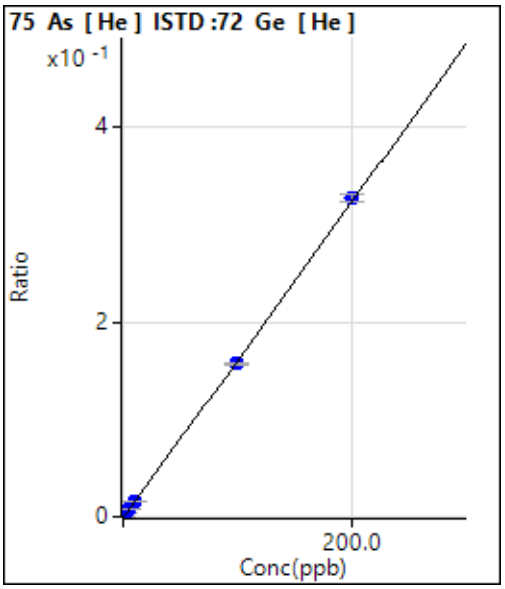
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	41420.07	0.0100	P	2.2	
2	☐	2.000	0.174	43111.79	0.0103	P	0.8	-91.3
3	☐	5.000	4.236	71393.00	0.0173	P	2.2	-15.3
4	☐	10.000	9.765	110125.14	0.0268	P	2.7	-2.4
5	☐	100.000	95.313	695363.61	0.1748	P	1.6	-4.7
6	☐	200.000	202.393	1394740.55	0.3600	A	1.6	1.2

y = 0.0017 * x + 0.0100
R = 0.9996
DL = 0.3786 ppb
BEC = 5.754 ppb

Weight: <None>
Min Conc: <None>

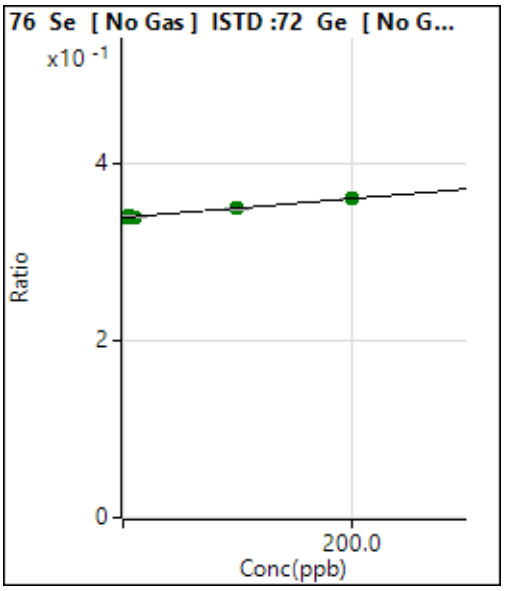


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	356.67	0.0003	P	6.9	
2	☐	2.000	1.841	3928.36	0.0033	P	3.7	-7.9
3	☐	5.000	4.835	9564.50	0.0081	P	4.6	-3.3
4	☐	10.000	9.803	18745.11	0.0162	P	1.3	-2.0
5	☐	100.000	96.787	179057.99	0.1573	P	1.7	-3.2
6	☐	200.000	201.622	363060.04	0.3274	P	2.6	0.8

y = 0.0016 * x + 3.0293E-004
R = 0.9998
DL = 0.03847 ppb
BEC = 0.1867 ppb

Weight: <None>
Min Conc: <None>

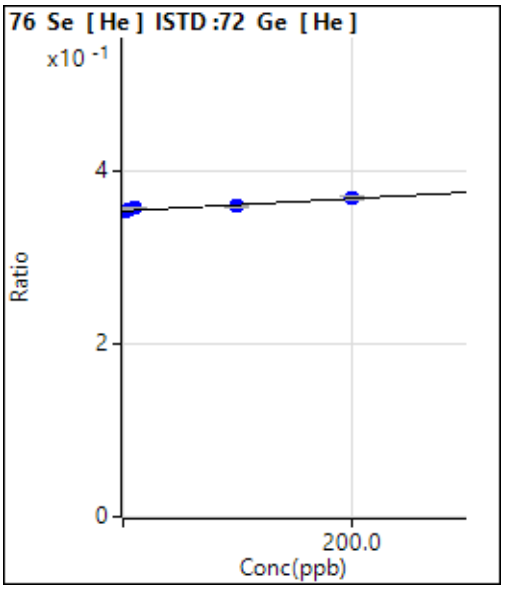
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1411471.07	0.3391	A	0.2	
2	☐	2.000	-6.447	1422952.53	0.3384	A	0.7	-422.4
3	☐	5.000	11.669	1406365.14	0.3404	A	0.6	133.4
4	☐	10.000	6.783	1394506.23	0.3399	A	0.4	-32.2
5	☐	100.000	95.860	1390091.65	0.3495	A	0.5	-4.1
6	☐	200.000	202.148	1398200.03	0.3609	A	0.3	1.1

y = 1.0766E-004 * x + 0.3391
R = 0.9980
DL = 22.78 ppb
BEC = 3150 ppb

Weight: <None>
Min Conc: <None>

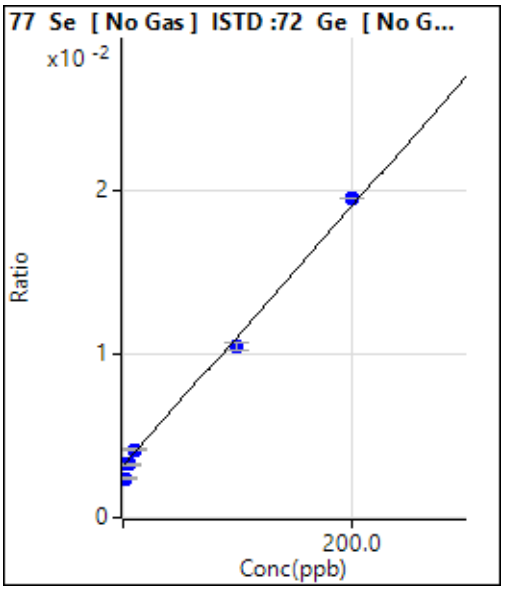


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	416216.30	0.3534	P	0.2	
2	☐	2.000	-11.688	420892.72	0.3526	P	1.0	-684.4
3	☐	5.000	21.482	416774.79	0.3550	P	0.9	329.6
4	☐	10.000	49.882	412980.25	0.3571	P	0.7	398.8
5	☐	100.000	78.995	408769.76	0.3592	P	0.4	-21.0
6	☐	200.000	208.233	408732.73	0.3686	P	1.5	4.1

y = 7.2568E-005 * x + 0.3534
R = 0.9636
DL = 35.82 ppb
BEC = 4870 ppb

Weight: <None>
Min Conc: <None>

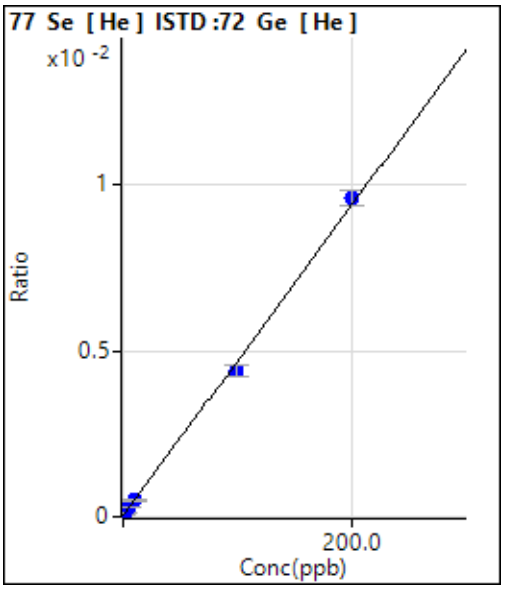
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	13703.79	0.0033	P	1.8	
2	☐	2.000	-11.125	10137.27	0.0024	P	3.9	-656.3
3	☐	5.000	-0.623	13400.07	0.0032	P	2.7	-112.5
4	☐	10.000	10.886	17050.96	0.0042	P	2.4	8.9
5	☐	100.000	90.162	41516.84	0.0104	P	4.7	-9.8
6	☐	200.000	205.146	75736.43	0.0195	P	0.3	2.6

y = 7.9240E-005 * x + 0.0033
R = 0.9972
DL = 2.21 ppb
BEC = 41.55 ppb

Weight: <None>
Min Conc: <None>

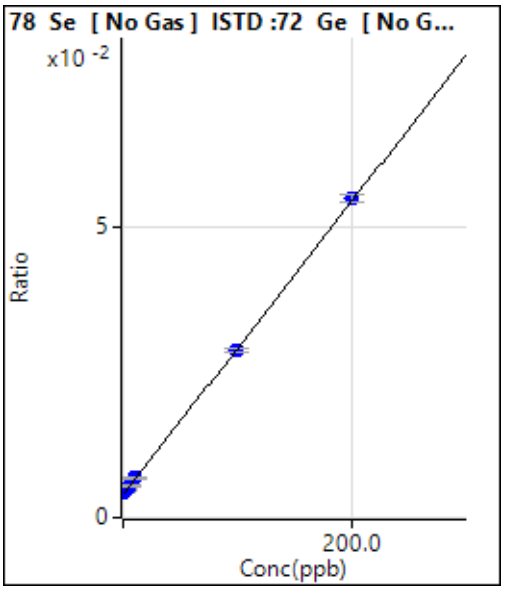


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	93.33	0.0001	P	6.5	
2	☐	2.000	1.111	156.67	0.0001	P	8.5	-44.4
3	☐	5.000	4.796	356.68	0.0003	P	8.8	-4.1
4	☐	10.000	8.887	573.36	0.0005	P	8.1	-11.1
5	☐	100.000	92.779	5034.34	0.0044	P	8.2	-7.2
6	☐	200.000	203.680	10667.72	0.0096	P	4.4	1.8

y = 4.6838E-005 * x + 7.9270E-005
R = 0.9991
DL = 0.3311 ppb
BEC = 1.692 ppb

Weight: <None>
Min Conc: <None>

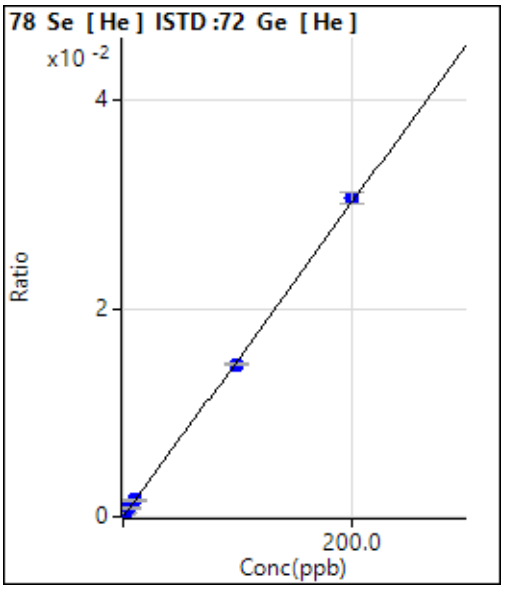
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	17611.61	0.0042	P	2.6	
2	☐	2.000	2.103	20014.94	0.0048	P	2.4	5.2
3	☐	5.000	4.648	22311.83	0.0054	P	1.9	-7.0
4	☐	10.000	10.145	27828.68	0.0068	P	1.1	1.5
5	☐	100.000	97.785	114635.87	0.0288	P	2.4	-2.2
6	☐	200.000	201.108	212292.33	0.0548	P	2.0	0.6

y = 2.5143E-004 * x + 0.0042
R = 0.9999
DL = 1.302 ppb
BEC = 16.83 ppb

Weight: <None>
Min Conc: <None>

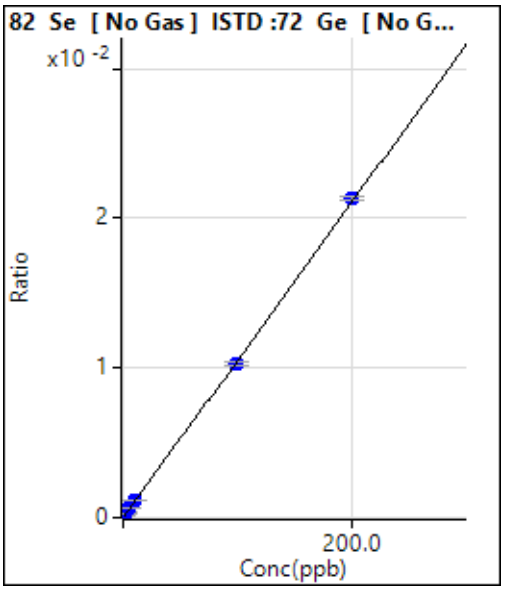


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	158.67	0.0001	P	8.1	
2	☐	2.000	2.023	525.34	0.0004	P	6.2	1.2
3	☐	5.000	4.647	981.37	0.0008	P	4.6	-7.1
4	☐	10.000	9.711	1850.80	0.0016	P	4.8	-2.9
5	☐	100.000	96.045	16650.84	0.0146	P	1.7	-4.0
6	☐	200.000	202.001	33953.46	0.0306	P	3.5	1.0

y = 1.5091E-004 * x + 1.3471E-004
R = 0.9997
DL = 0.216 ppb
BEC = 0.8926 ppb

Weight: <None>
Min Conc: <None>

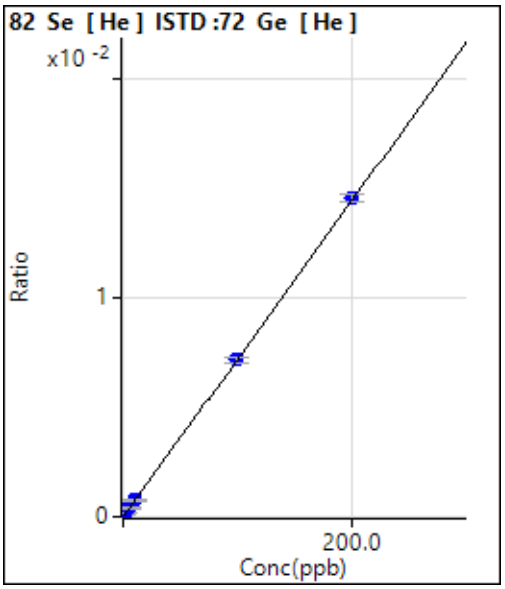
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	426.68	0.0001	P	25.5	
2	☐	2.000	1.939	1290.09	0.0003	P	19.5	-3.1
3	☐	5.000	4.748	2490.28	0.0006	P	1.2	-5.0
4	☐	10.000	9.887	4694.22	0.0011	P	3.6	-1.1
5	☐	100.000	96.838	40985.51	0.0103	P	1.8	-3.2
6	☐	200.000	201.593	82664.00	0.0213	P	1.8	0.8

y = 1.0534E-004 * x + 1.0258E-004
R = 0.9998
DL = 0.7442 ppb
BEC = 0.9739 ppb

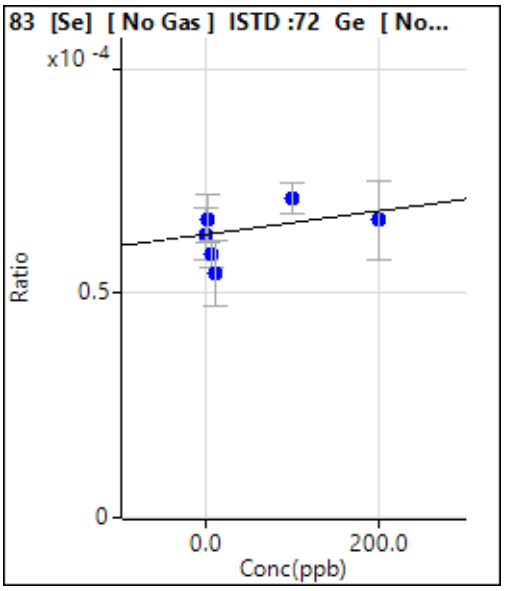
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	80.00	0.0001	P	22.0	
2	☐	2.000	1.461	206.68	0.0002	P	20.2	-26.9
3	☐	5.000	4.684	476.68	0.0004	P	20.7	-6.3
4	☐	10.000	9.567	876.71	0.0008	P	9.0	-4.3
5	☐	100.000	98.378	8149.25	0.0072	P	3.4	-1.6
6	☐	200.000	200.846	16133.29	0.0145	P	2.0	0.4

y = 7.2094E-005 * x + 6.7964E-005
R = 1.0000
DL = 0.621 ppb
BEC = 0.9427 ppb

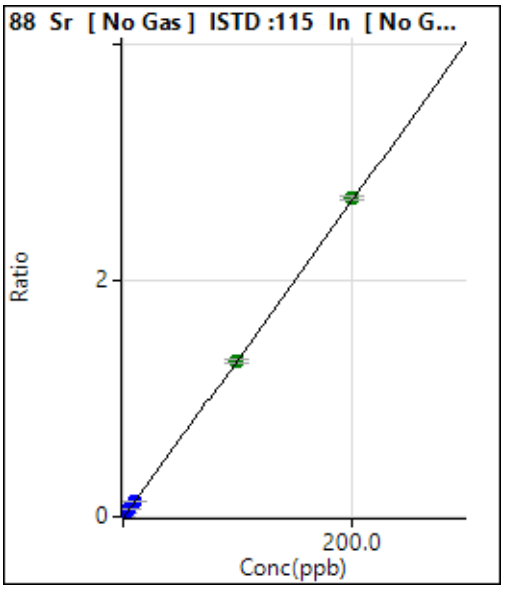
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	263.34	0.0001	P	18.4	
2	☐	2.000	128.285	280.01	0.0001	P	16.3	6314.2
3	☐	5.000	-167.283	243.34	0.0001	P	10.2	-3445.7
4	☐	10.000	-339.012	223.34	0.0001	P	26.7	-3490.1
5	☐	100.000	305.817	283.34	0.0001	P	10.1	205.8
6	☐	200.000	117.586	256.68	0.0001	P	26.6	-41.2

y = 2.6064E-008 * x + 6.3252E-005
R = 0.5062
DL = 1341 ppb
BEC = 2427 ppb

Weight: <None>
Min Conc: <None>

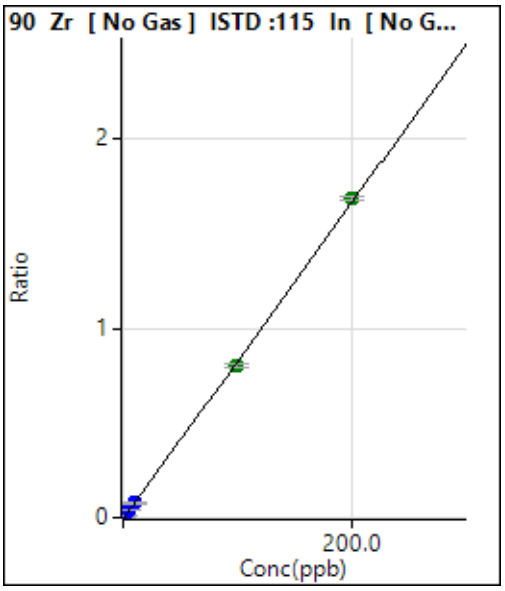


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4904.32	0.0009	P	7.3	
2	☐	2.000	1.864	137527.00	0.0259	P	1.2	-6.8
3	☐	5.000	4.711	337079.14	0.0641	P	1.1	-5.8
4	☐	10.000	9.534	674025.95	0.1287	P	0.6	-4.7
5	☐	100.000	97.841	6609469.07	1.3123	A	2.4	-2.2
6	☐	200.000	201.111	13219901.88	2.6964	A	1.3	0.6

y = 0.0134 * x + 9.2501E-004
R = 0.9999
DL = 0.01507 ppb
BEC = 0.06902 ppb

Weight: <None>
Min Conc: <None>

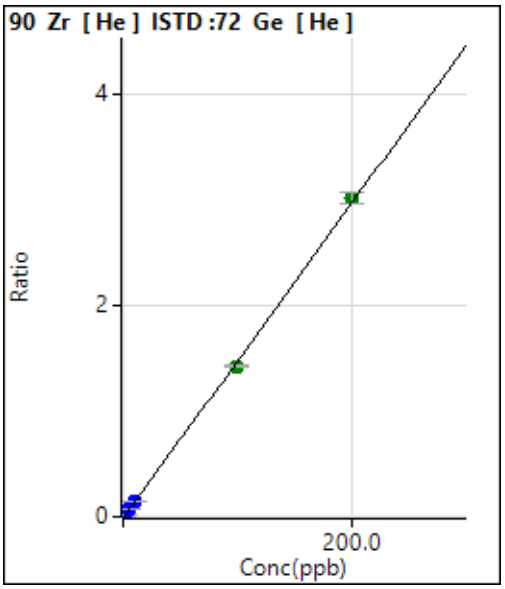
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2100.20	0.0004	P	19.4	
2	☐	2.000	1.596	72866.28	0.0137	P	1.3	-20.2
3	☐	5.000	4.327	192226.04	0.0365	P	1.7	-13.5
4	☐	10.000	9.154	402526.14	0.0769	P	1.8	-8.5
5	☐	100.000	96.419	4058347.96	0.8058	A	2.6	-3.6
6	☐	200.000	201.854	8268343.63	1.6864	A	1.4	0.9

y = 0.0084 * x + 3.9617E-004
R = 0.9998
DL = 0.02754 ppb
BEC = 0.04743 ppb

Weight: <None>
Min Conc: <None>

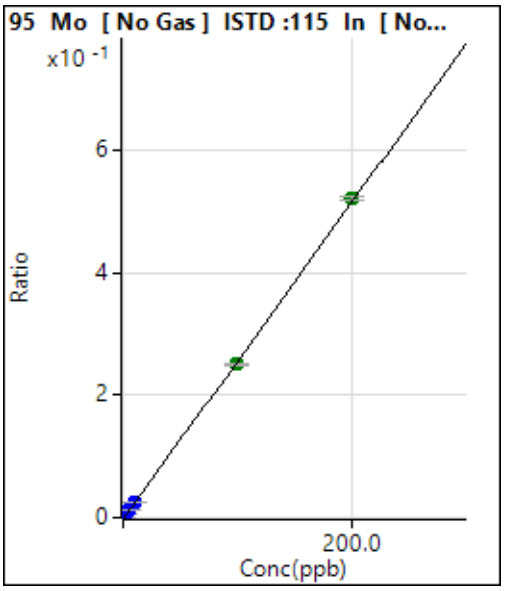


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2046.86	0.0017	P	2.1	
2	☐	2.000	1.597	30474.83	0.0255	P	1.3	-20.2
3	☐	5.000	4.306	77360.72	0.0659	P	3.7	-13.9
4	☐	10.000	9.243	161276.68	0.1394	P	2.1	-7.6
5	☐	100.000	95.413	1619902.21	1.4232	A	2.0	-4.6
6	☐	200.000	202.353	3344962.35	3.0164	A	3.1	1.2

y = 0.0149 * x + 0.0017
R = 0.9997
DL = 0.007522 ppb
BEC = 0.1167 ppb

Weight: <None>
Min Conc: <None>

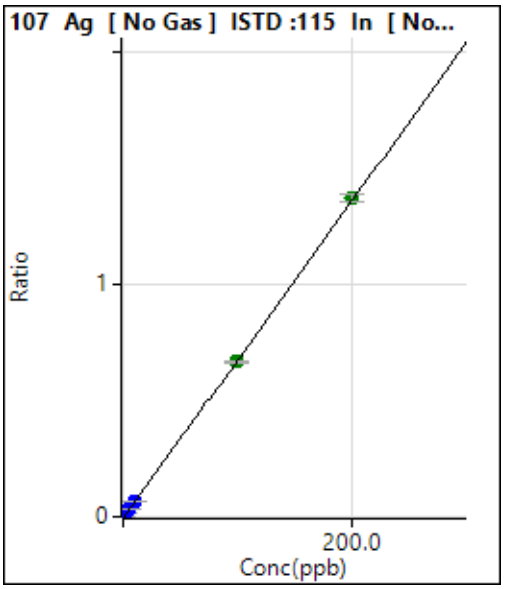
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	383.35	0.0001	P	21.2	
2	☐	2.000	1.886	26265.88	0.0049	P	4.8	-5.7
3	☐	5.000	4.791	65532.40	0.0125	P	2.1	-4.2
4	☐	10.000	9.571	129939.16	0.0248	P	2.1	-4.3
5	☐	100.000	96.791	1260475.16	0.2503	A	2.0	-3.2
6	☐	200.000	201.632	2555596.78	0.5213	A	1.5	0.8

y = 0.0026 * x + 7.2253E-005
R = 0.9998
DL = 0.01779 ppb
BEC = 0.02795 ppb

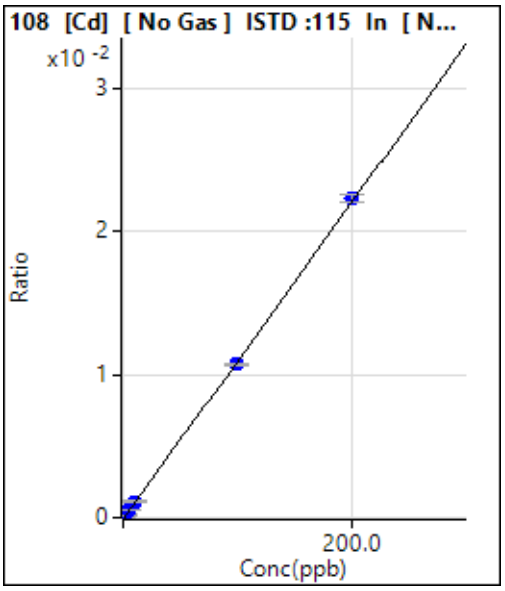
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1473.44	0.0003	P	9.2	
2	☐	2.000	1.978	73196.34	0.0138	P	2.4	-1.1
3	☐	5.000	4.937	178888.02	0.0340	P	1.2	-1.3
4	☐	10.000	9.934	356860.89	0.0681	P	1.9	-0.7
5	☐	100.000	97.700	3362962.35	0.6677	A	1.4	-2.3
6	☐	200.000	201.155	6738256.15	1.3744	A	2.2	0.6

y = 0.0068 * x + 2.7790E-004
R = 0.9999
DL = 0.01118 ppb
BEC = 0.04068 ppb

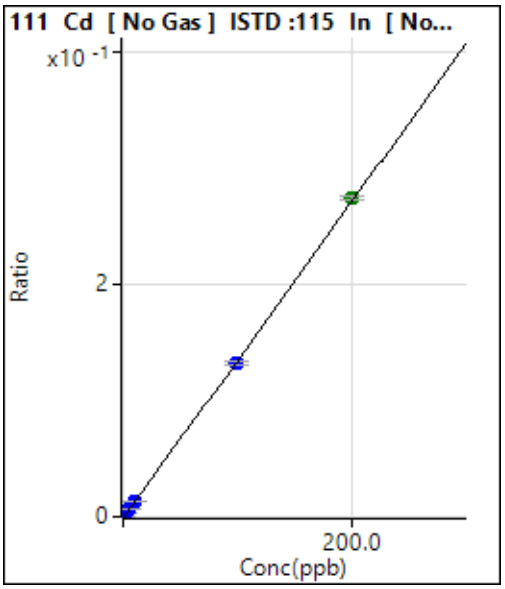
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	20.00	0.0000	P	99.8	
2	☐	2.000	1.758	1053.40	0.0002	P	16.5	-12.1
3	☐	5.000	4.930	2893.71	0.0006	P	4.1	-1.4
4	☐	10.000	10.251	5968.10	0.0011	P	3.4	2.5
5	☐	100.000	96.634	53948.86	0.0107	P	1.3	-3.4
6	☐	200.000	201.674	109577.53	0.0224	P	1.9	0.8

y = 1.1080E-004 * x + 3.7564E-006
R = 0.9998
DL = 0.1015 ppb
BEC = 0.0339 ppb

Weight: <None>
Min Conc: <None>

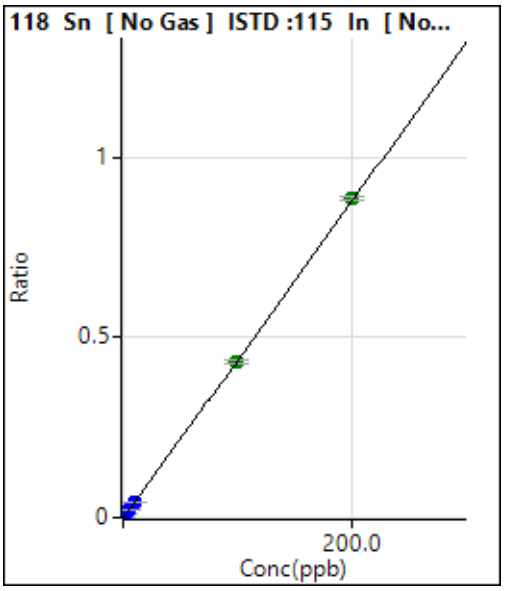


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	161.88	0.0000	P	17.1	
2	☐	2.000	1.958	14305.56	0.0027	P	3.2	-2.1
3	☐	5.000	4.876	35056.73	0.0067	P	2.6	-2.5
4	☐	10.000	9.727	69461.72	0.0133	P	1.0	-2.7
5	☐	100.000	97.128	665670.65	0.1322	P	2.1	-2.9
6	☐	200.000	201.453	1343775.42	0.2741	A	1.7	0.7

y = 0.0014 * x + 3.0559E-005
R = 0.9999
DL = 0.01152 ppb
BEC = 0.02246 ppb

Weight: <None>
Min Conc: <None>

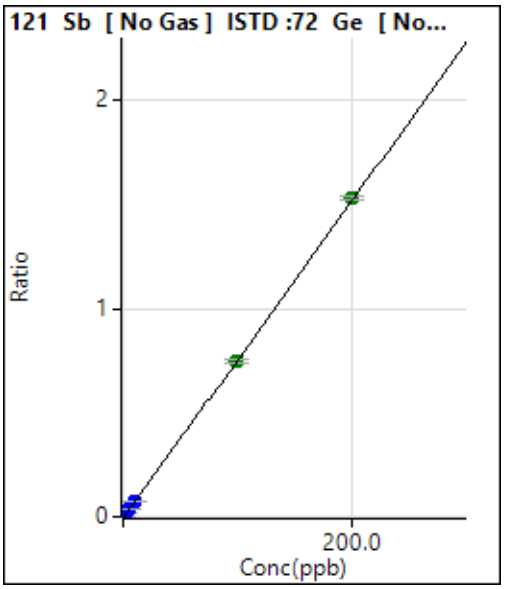
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	8672.97	0.0016	P	4.3	
2	☐	2.000	1.777	50235.19	0.0095	P	1.9	-11.1
3	☐	5.000	4.844	120829.17	0.0230	P	2.4	-3.1
4	☐	10.000	9.771	233896.42	0.0447	P	1.8	-2.3
5	☐	100.000	97.909	2179718.82	0.4328	A	2.4	-2.1
6	☐	200.000	201.063	4348892.12	0.8870	A	1.5	0.5

y = 0.0044 * x + 0.0016
R = 0.9999
DL = 0.04822 ppb
BEC = 0.3715 ppb

Weight: <None>
Min Conc: <None>

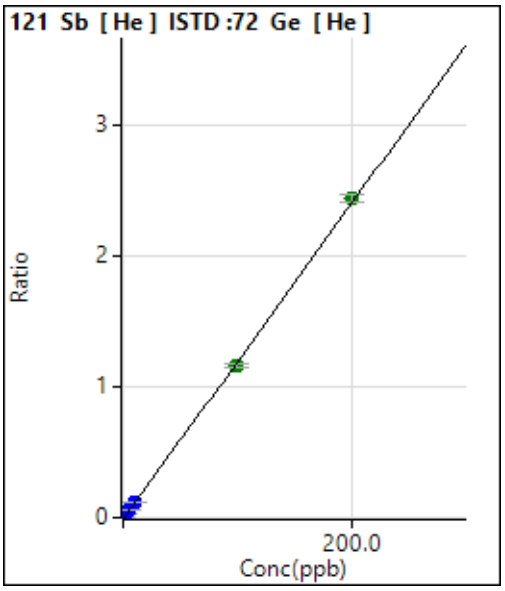


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1300.09	0.0003	P	6.4	
2	☐	2.000	1.927	63069.68	0.0150	P	2.9	-3.6
3	☐	5.000	4.830	153386.18	0.0371	P	1.8	-3.4
4	☐	10.000	9.841	309005.41	0.0753	P	2.5	-1.6
5	☐	100.000	97.922	2970035.48	0.7466	A	2.6	-2.1
6	☐	200.000	201.052	5937645.75	1.5326	A	0.9	0.5

y = 0.0076 * x + 3.1238E-004
R = 0.9999
DL = 0.007811 ppb
BEC = 0.04099 ppb

Weight: <None>
Min Conc: <None>

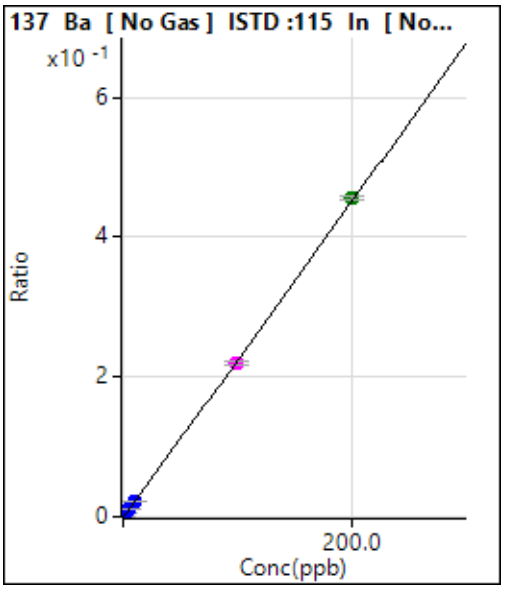
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	500.02	0.0004	P	15.2	
2	☐	2.000	1.854	27265.11	0.0228	P	2.9	-7.3
3	☐	5.000	4.709	67310.56	0.0573	P	1.9	-5.8
4	☐	10.000	9.697	136043.29	0.1176	P	2.3	-3.0
5	☐	100.000	95.928	1320040.99	1.1598	A	1.7	-4.1
6	☐	200.000	202.060	2708541.42	2.4424	A	2.6	1.0

y = 0.0121 * x + 4.2496E-004
R = 0.9997
DL = 0.016 ppb
BEC = 0.03516 ppb

Weight: <None>
Min Conc: <None>

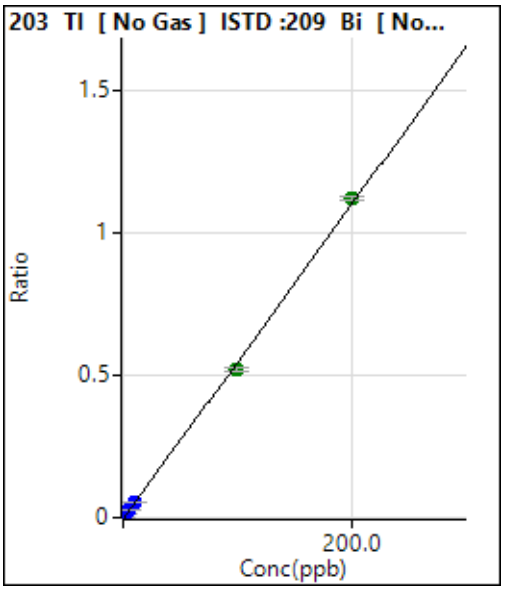


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1700.15	0.0003	P	10.7	
2	☐	2.000	1.879	24276.29	0.0046	P	2.6	-6.0
3	☐	5.000	4.818	59039.55	0.0112	P	4.2	-3.6
4	☐	10.000	9.605	115501.48	0.0221	P	0.7	-4.0
5	☐	100.000	97.269	1110159.10	0.2204	M	2.9	-2.7
6	☐	200.000	201.391	2235829.65	0.4560	A	1.4	0.7

y = 0.0023 * x + 3.2087E-004
R = 0.9999
DL = 0.04554 ppb
BEC = 0.1418 ppb

Weight: <None>
Min Conc: <None>

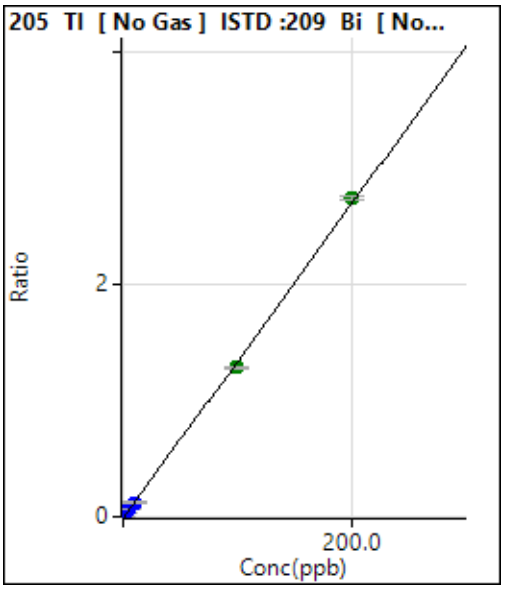
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1660.14	0.0003	P	7.8	
2	☐	2.000	1.878	55793.72	0.0107	P	2.8	-6.1
3	☐	5.000	4.593	135000.39	0.0257	P	2.0	-8.1
4	☐	10.000	9.304	270992.55	0.0517	P	2.8	-7.0
5	☐	100.000	94.454	2656535.90	0.5223	A	2.8	-5.5
6	☐	200.000	202.819	5571897.42	1.1211	A	0.9	1.4

y = 0.0055 * x + 3.1486E-004
R = 0.9995
DL = 0.01335 ppb
BEC = 0.05697 ppb

Weight: <None>
Min Conc: <None>

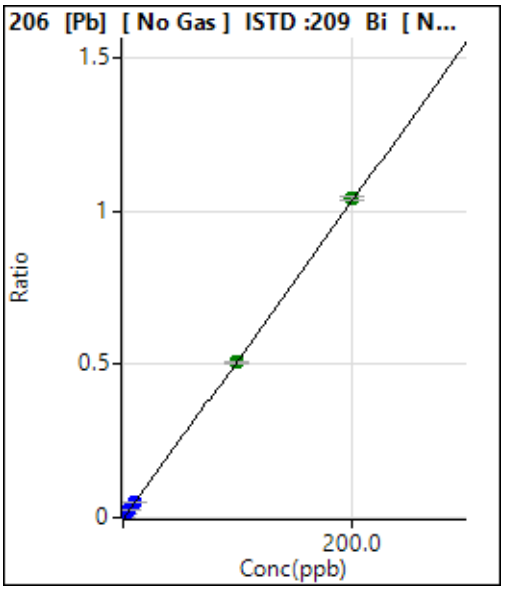


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4244.13	0.0008	P	4.2	
2	☐	2.000	1.804	131364.11	0.0252	P	1.7	-9.8
3	☐	5.000	4.409	317138.36	0.0604	P	2.2	-11.8
4	☐	10.000	9.034	643602.01	0.1229	P	2.6	-9.7
5	☐	100.000	94.683	6510474.90	1.2800	A	1.9	-5.3
6	☐	200.000	202.724	13615678.13	2.7396	A	1.2	1.4

y = 0.0135 * x + 8.0492E-004
R = 0.9995
DL = 0.007506 ppb
BEC = 0.05958 ppb

Weight: <None>
Min Conc: <None>

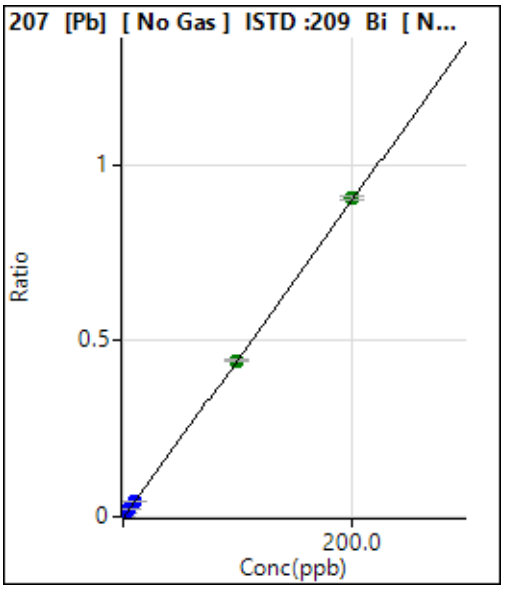
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2093.56	0.0004	P	1.4	
2	☐	2.000	1.997	56105.45	0.0108	P	3.6	-0.1
3	☐	5.000	4.917	136045.56	0.0259	P	1.4	-1.7
4	☐	10.000	9.875	270387.76	0.0516	P	1.2	-1.2
5	☐	100.000	97.799	2581850.59	0.5076	A	1.2	-2.2
6	☐	200.000	201.109	5185454.40	1.0434	A	1.1	0.6

y = 0.0052 * x + 3.9707E-004
R = 0.9999
DL = 0.003131 ppb
BEC = 0.07656 ppb

Weight: <None>
Min Conc: <None>

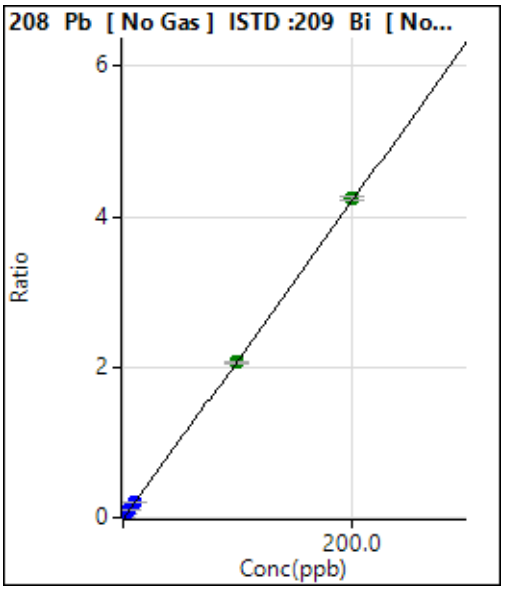


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1683.48	0.0003	P	17.7	
2	☐	2.000	1.953	47653.75	0.0091	P	2.7	-2.3
3	☐	5.000	4.892	117666.31	0.0224	P	1.5	-2.2
4	☐	10.000	9.855	234677.64	0.0448	P	1.0	-1.5
5	☐	100.000	98.236	2256621.22	0.4437	A	1.4	-1.8
6	☐	200.000	200.892	4507385.76	0.9070	A	0.7	0.4

y = 0.0045 * x + 3.1925E-004
R = 0.9999
DL = 0.03765 ppb
BEC = 0.07074 ppb

Weight: <None>
Min Conc: <None>

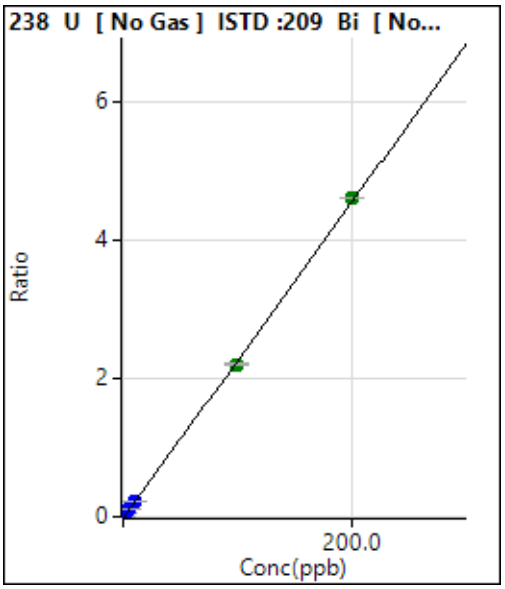
Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	8201.26	0.0016	P	3.9	
2	☐	2.000	1.928	220534.58	0.0423	P	2.9	-3.6
3	☐	5.000	4.791	539540.36	0.1027	P	1.4	-4.2
4	☐	10.000	9.714	1082670.58	0.2067	P	1.2	-2.9
5	☐	100.000	97.924	10524649.43	2.0692	A	1.2	-2.1
6	☐	200.000	201.058	21106062.91	4.2468	A	1.1	0.5

y = 0.0211 * x + 0.0016
R = 0.9999
DL = 0.008711 ppb
BEC = 0.07367 ppb

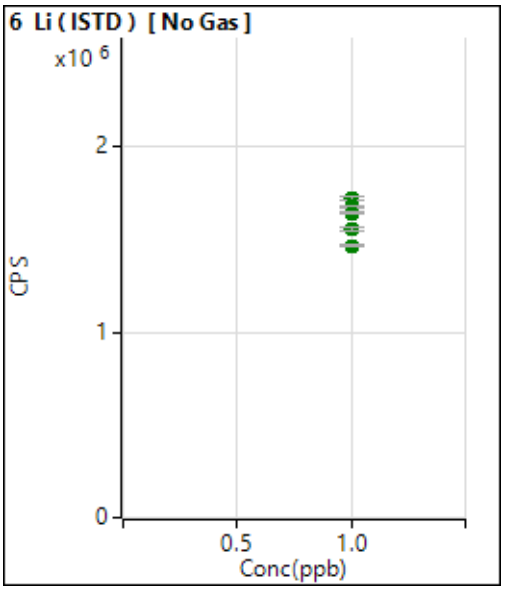
Weight: <None>
Min Conc: <None>



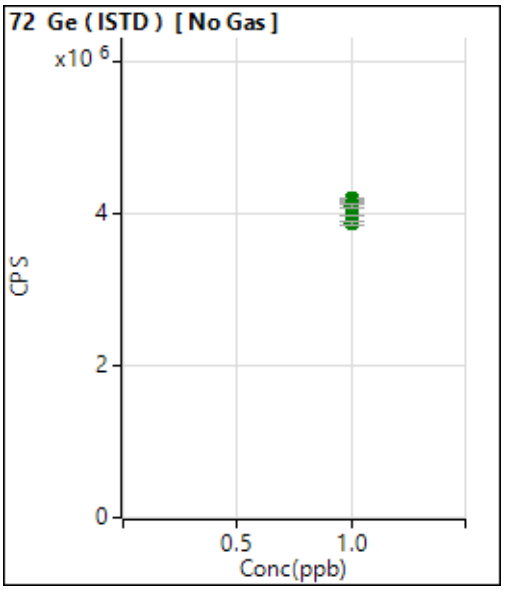
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5417.97	0.0010	P	3.9	
2	☐	2.000	1.829	223446.58	0.0428	P	0.8	-8.5
3	☐	5.000	4.528	548908.05	0.1045	P	1.6	-9.4
4	☐	10.000	9.306	1119428.45	0.2137	P	1.0	-6.9
5	☐	100.000	96.488	11219859.42	2.2059	A	1.4	-3.5
6	☐	200.000	201.804	22922825.49	4.6125	A	0.4	0.9

y = 0.0229 * x + 0.0010
R = 0.9998
DL = 0.005247 ppb
BEC = 0.04497 ppb

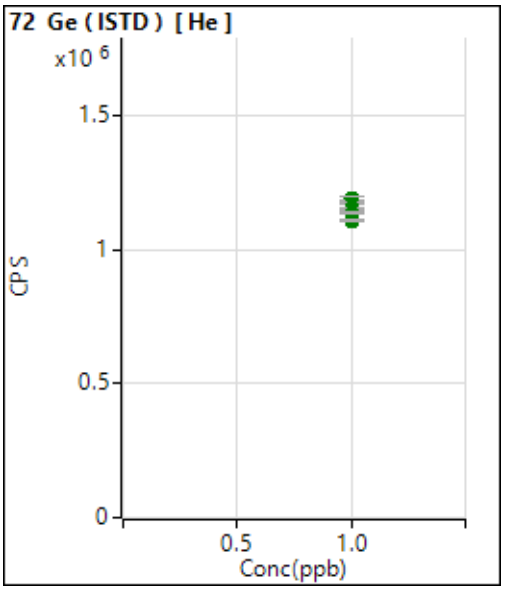
Weight: <None>
Min Conc: <None>



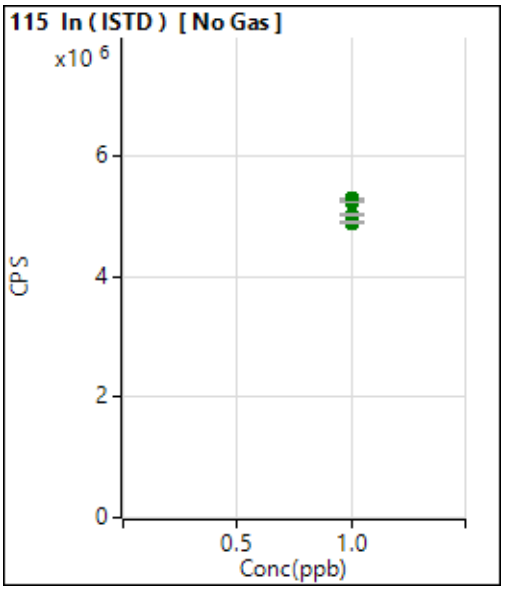
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1709896.43		A	0.1	
2	☐	1.000		1722227.11		A	0.8	
3	☐	1.000		1676112.40		A	0.7	
4	☐	1.000		1644380.63		A	0.5	
5	☐	1.000		1556073.15		A	1.2	
6	☐	1.000		1464767.87		A	0.5	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4162003.17		A	0.4	
2	☐	1.000		4204480.88		A	0.1	
3	☐	1.000		4131653.38		A	0.1	
4	☐	1.000		4103178.79		A	0.7	
5	☐	1.000		3977893.69		A	0.2	
6	☐	1.000		3874294.11		A	0.8	

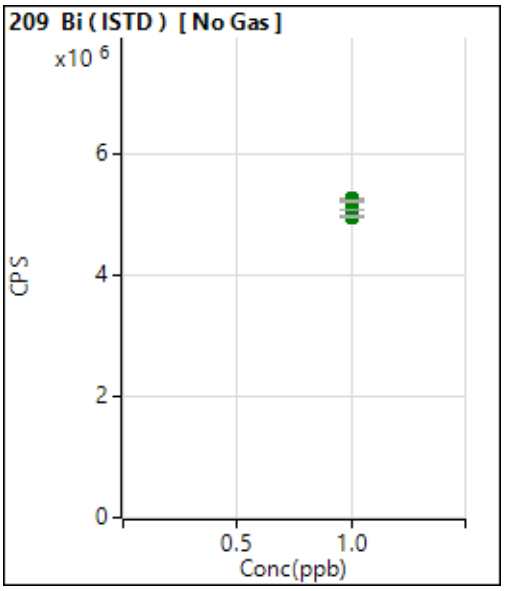


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1177618.06		A	1.0	
2	☐	1.000		1193812.90		A	1.4	
3	☐	1.000		1174066.93		A	0.9	
4	☐	1.000		1156621.96		A	0.7	
5	☐	1.000		1138105.48		A	0.7	
6	☐	1.000		1109115.32		A	0.9	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		5301074.33		A	0.7	
2	☐	1.000		5309002.67		A	0.4	
3	☐	1.000		5261197.90		A	0.4	
4	☐	1.000		5237070.79		A	0.0	
5	☐	1.000		5036649.90		A	0.1	
6	☐	1.000		4903058.98		A	0.8	

Calibration for 019_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		5272521.38		A	0.1	
2	☐	1.000		5216993.47		A	0.7	
3	☐	1.000		5253118.88		A	0.0	
4	☐	1.000		5239227.94		A	0.6	
5	☐	1.000		5086380.97		A	0.1	
6	☐	1.000		4969671.91		A	0.5	

Sample Report

Sample Table

Sample Name	LLICV2
Data File Name	021LCV2.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T11:06:42-05:00
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	1.887	1.887	0.85	142538	0.00	2	
Be	9	1	No Gas	1.906	1.906	1.63	13448	0.01	2	
V	51	2	He	1.710	1.710	2.23	22824	0.01	2	
Cr	52	2	He	1.687	1.687	0.55	32342	0.01	2	
Fe	56	2	He	194.077	194.077	2.51	2222891	0.01	200	
Se	78	2	He	1.986	1.986	7.88	504	0.39	2	
As	75	2	He	1.915	1.915	4.15	3956	0.05	2	
Ca	44	2	He	194.320	194.320	3.64	14651	1.33	200	
Na	23	2	He	157.703	157.703	1.67	568895	0.03	200	
Mg	24	2	He	191.882	191.882	2.24	216658	0.09	200	
K	39	2	He	193.016	193.016	2.99	370252	0.05	200	
Mn	55	2	He	1.883	1.883	8.32	19117	0.01	2	
Co	59	2	He	1.966	1.966	2.40	37003	0.01	2	
Ni	60	2	He	1.952	1.952	3.91	10508	0.02	2	
Cu	63	2	He	2.007	2.007	1.89	26402	0.01	2	
Zn	66	2	He	2.612	2.612	9.01	7652	0.03	2	NewName Main CR1 Failed
Al	27	2	He	1.254	1.254	18.09	2937	0.04	2	NewName Main CR1 Failed
B	11	1	No Gas	9.336	9.336	4.28	55461	0.02	10	
Al	27	1	No Gas	1.389	1.389	5.55	116930	0.00	2	NewName Main CR1 Failed
Si	28	1	No Gas	8.836	8.836	5.52	549379	0.00	10	
Ag	107	1	No Gas	2.026	2.026	4.17	73324	0.00	2	
Cd	111	1	No Gas	2.020	2.020	3.35	14430	0.01	2	
Sr	88	1	No Gas	1.886	1.886	3.15	136055	0.00	2	
Mo	95	1	No Gas	1.947	1.947	3.45	26513	0.01	2	
Sn	118	1	No Gas	1.835	1.835	1.63	50463	0.00	2	
Sb	121	1	No Gas	1.995	1.995	3.66	63717	0.00	2	
Ba	137	1	No Gas	1.930	1.930	2.25	24343	0.01	2	
Tl	205	1	No Gas	1.809	1.809	1.21	131529	0.00	2	
Tl	203	1	No Gas	1.866	1.866	3.57	55389	0.00	2	
Pb	208	1	No Gas	1.952	1.952	2.88	222876	0.00	2	
U	238	1	No Gas	1.856	1.856	1.19	226402	0.00	2	
Ca	43	2	He	182.428	182.428	16.34	780	23.39	200	
Sb	121	2	He	1.906	1.906	0.73	27212	0.01	2	
Ti	47	2	He	2.029	2.029	15.75	837	0.24	200	
Cu	63	1	No Gas	1.982	1.982	0.75	58226	0.00	2	
Se	82	1	No Gas	1.747	1.747	4.52	1177	0.15	2	
Zr	90	1	No Gas	1.729	1.729	3.32	77056	0.00	2	
Zr	90	2	He	1.709	1.709	2.84	31551	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	1659167	0.24	1709896	97.03	70	120	
Ge	72	2	He	1160167	0.44	1177618	98.52	70	120	
Ge	72	1	No Gas	4105531	0.39	4162003	98.64	70	120	
In	115	1	No Gas	5193231	0.27	5301074	97.97	70	120	
Bi	209	1	No Gas	5210604	0.56	5272521	98.83	70	120	

Sample Report

Sample Table

Sample Name	LLICV5
Data File Name	022LCV5.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T11:09:06-05:00
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	4.775	4.775	1.69	214284	0.00	5	
Be	9	1	No Gas	4.719	4.719	1.64	31994	0.01	5	
V	51	2	He	4.896	4.896	1.35	55846	0.01	5	
Cr	52	2	He	4.941	4.941	0.90	70492	0.01	5	
Fe	56	2	He	502.613	502.613	2.06	5674368	0.01	500	
Se	78	2	He	5.089	5.089	5.84	1045	0.49	5	
As	75	2	He	5.038	5.038	2.24	9808	0.05	5	
Ca	44	2	He	494.073	494.073	2.20	35081	1.41	500	
Na	23	2	He	470.021	470.021	1.19	1129543	0.04	500	
Mg	24	2	He	499.465	499.465	1.18	558104	0.09	500	
K	39	2	He	498.153	498.153	1.21	768130	0.06	500	
Mn	55	2	He	4.975	4.975	4.62	47512	0.01	5	
Co	59	2	He	5.076	5.076	2.37	93687	0.01	5	
Ni	60	2	He	5.212	5.212	4.45	25738	0.02	5	
Cu	63	2	He	5.203	5.203	3.15	66266	0.01	5	
Zn	66	2	He	5.036	5.036	2.39	13303	0.04	5	
Al	27	2	He	5.320	5.320	8.59	5845	0.09	5	
B	11	1	No Gas	23.623	23.623	1.48	108635	0.02	25	
Al	27	1	No Gas	5.231	5.231	3.31	220662	0.00	5	
Si	28	1	No Gas	24.655	24.655	4.61	752069	0.00	25	
Ag	107	1	No Gas	5.047	5.047	2.99	180919	0.00	5	
Cd	111	1	No Gas	4.892	4.892	3.40	34801	0.01	5	
Sr	88	1	No Gas	4.767	4.767	1.92	337352	0.00	5	
Mo	95	1	No Gas	4.856	4.856	2.74	65713	0.01	5	
Sn	118	1	No Gas	4.878	4.878	1.52	120332	0.00	5	
Sb	121	1	No Gas	4.991	4.991	2.36	156027	0.00	5	
Ba	137	1	No Gas	4.932	4.932	2.85	59763	0.01	5	
Tl	205	1	No Gas	4.559	4.559	2.03	326752	0.00	5	
Tl	203	1	No Gas	4.729	4.729	1.24	138499	0.00	5	
Pb	208	1	No Gas	4.928	4.928	1.49	552988	0.00	5	
U	238	1	No Gas	4.644	4.644	1.29	561011	0.00	5	
Ca	43	2	He	535.203	535.203	6.36	2180	24.55	500	
Sb	121	2	He	4.941	4.941	0.57	69593	0.01	5	
Ti	47	2	He	4.755	4.755	5.08	1920	0.25	5	
Cu	63	1	No Gas	5.092	5.092	1.01	136569	0.00	5	
Se	82	1	No Gas	5.062	5.062	6.57	2587	0.20	5	
Zr	90	1	No Gas	4.429	4.429	2.49	194640	0.00	5	
Zr	90	2	He	4.610	4.610	0.99	81489	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	1620047	0.35	1709896	94.75	70	120	

Sample Report

Ge	72	2	He	1157270	0.24	1177618	98.27	70	120	
Ge	72	1	No Gas	4068466	0.41	4162003	97.75	70	120	
In	115	1	No Gas	5205280	0.29	5301074	98.19	70	120	
Bi	209	1	No Gas	5236127	0.60	5272521	99.31	70	120	

Initial Calibration Blank (ICB) Report

Sample Table

Sample Name	ICB
Data File Name	024_ICB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T11:13:55-05:00
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	-0.041	-111.0	90225	1.0	0.5	
Be	9	1	No Gas	0.001	982.5	363	22.1	0.5	
V	51	2	He	-0.077	-9.3	4258	2.9	2.5	
Cr	52	2	He	-0.044	-92.4	12022	3.6	2.5	
Fe	56	2	He	4.131	3.7	89640	1.5	100	
Se	78	2	He	0.118	61.1	178	5.8	1	
As	75	2	He	0.013	62.5	379	5.4	2.5	
Ca	44	2	He	69.218	3.3	6128	2.0	100	
Na	23	2	He	-31.072	-6.1	229825	0.4	100	
Mg	24	2	He	3.369	11.0	6555	5.0	100	
K	39	2	He	-2.307	-48.0	115081	1.0	100	
Mn	55	2	He	0.167	7.5	3307	4.1	2.5	
Co	59	2	He	0.013	23.5	1267	3.9	2.5	
Ni	60	2	He	0.200	13.1	2307	6.6	2.5	
Cu	63	2	He	0.085	23.1	2347	9.7	1	
Zn	66	2	He	0.887	13.1	3631	8.2	2.5	
Al	27	2	He	2.696	4.4	4001	1.1	5	
B	11	1	No Gas	0.047	376.8	18984	4.1	0.5	
Al	27	1	No Gas	2.790	7.5	154285	3.1	5	
Si	28	1	No Gas	5.246	13.2	498127	2.3	10	
Ag	107	1	No Gas	0.010	45.0	1817	9.7	2.5	
Cd	111	1	No Gas	-0.008	-82.8	99	49.4	1	
Sr	88	1	No Gas	0.176	3.1	17091	2.3	2.5	
Mo	95	1	No Gas	0.008	95.5	487	21.6	2.5	
Sn	118	1	No Gas	-0.027	-61.7	7879	5.3	5	
Sb	121	1	No Gas	0.016	26.4	1783	7.7	2.5	
Ba	137	1	No Gas	0.226	6.3	4324	4.4	2.5	
Tl	205	1	No Gas	0.005	92.0	4568	7.5	1	
Tl	203	1	No Gas	0.007	158.4	1837	16.5	1	
Pb	208	1	No Gas	0.006	26.3	8805	1.9	2.5	
U	238	1	No Gas	0.006	88.6	6068	10.4	2.5	
Ca	43	2	He	74.928	26.0	353	21.6	100	
Sb	121	2	He	0.015	26.1	703	6.4	2.5	
Ti	47	2	He	0.001	6705.0	27	57.3	2.5	
Se	82	1	No Gas	0.130	131.5	473	14.8	1	
Zr	90	1	No Gas	0.042	15.1	3894	6.9	2.5	
Zr	90	2	He	0.045	22.8	2807	5.1	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	1641365	0.49	1709896	95.99	70	120	
Ge	72	2	He	1168101	1.28	1177618	99.19	70	120	
Ge	72	1	No Gas	4074953	0.86	4162003	97.91	70	120	
In	115	1	No Gas	5195093	0.85	5301074	98.00	70	120	
Bi	209	1	No Gas	5218548	0.55	5272521	98.98	70	120	

Interference Check Solution A (ICS-A) Report

Sample Table

Sample Name	ICSA
Data File Name	026ICSA.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T11:18:47-05:00
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	0.392	15.0	94346	2.0	0	ICSA Main CR1 Failed
Be	9	1	No Gas	0.030	21.0	520	7.3	0	ICSA Main CR1 Failed
V	51	2	He	0.211	8.8	7094	1.9	0	ICSA Main CR1 Failed
Cr	52	2	He	0.808	5.0	21584	3.1	0	ICSA Main CR1 Failed
Fe	56	2	He	96527.332	2.3	1064156384	1.9	0	
Se	78	2	He	0.024	608.9	157	14.9	0	ICSA Main CR1 Failed
As	75	2	He	0.362	6.2	1013	4.7	0	ICSA Main CR1 Failed
Ca	44	2	He	98037.236	3.6	6586553	3.2	0	
Na	23	2	He	98284.266	2.9	174290804	2.2	0	
Mg	24	2	He	97064.818	2.0	106182292	1.5	0	
K	39	2	He	97964.607	2.3	126081198	1.7	0	
Mn	55	2	He	1.726	2.2	17334	1.1	0	ICSA Main CR1 Failed
Co	59	2	He	0.956	2.1	18172	1.9	0	ICSA Main CR1 Failed
Ni	60	2	He	1.007	4.3	5961	3.3	0	ICSA Main CR1 Failed
Cu	63	2	He	0.690	2.3	9730	1.4	0	ICSA Main CR1 Failed
Zn	66	2	He	3.182	5.2	8820	3.6	0	ICSA Main CR1 Failed
Al	27	2	He	98851.983	2.1	69717736	1.6	0	
B	11	1	No Gas	1.499	4.0	22830	0.9	0	
Al	27	1	No Gas	95337.832	2.8	2489547696	1.5	0	
Si	28	1	No Gas	37.439	3.7	880967	3.0	0	
Ag	107	1	No Gas	0.046	12.3	2797	6.2	0	ICSA Main CR1 Failed
Cd	111	1	No Gas	0.793	4.4	5271	4.3	0	ICSA Main CR1 Failed
Sr	88	1	No Gas	0.886	2.8	60810	2.4	0	ICSA Main CR1 Failed
Mo	95	1	No Gas	1990.188	1.1	24442532	0.9	0	
Sn	118	1	No Gas	0.124	14.7	10361	3.6	0	ICSA Main CR1 Failed
Sb	121	1	No Gas	0.076	3.0	3461	1.8	0	ICSA Main CR1 Failed
Ba	137	1	No Gas	0.556	0.9	7506	0.9	0	ICSA Main CR1 Failed
Tl	205	1	No Gas	0.008	106.5	4271	12.5	0	ICSA Main CR1 Failed
Tl	203	1	No Gas	0.012	47.0	1770	7.8	0	ICSA Main CR1 Failed
Pb	208	1	No Gas	0.863	4.4	92477	3.9	0	ICSA Main CR1 Failed
U	238	1	No Gas	0.017	37.5	6602	10.1	0	ICSA Main CR1 Failed
Ca	43	2	He	94948.389	2.7	371446	2.4	0	
Sb	121	2	He	0.072	2.2	1473	2.1	0	ICSA Main CR1 Failed
Ti	47	2	He	1948.235	3.2	763310	2.9	0	
Se	82	1	No Gas	0.277	79.5	513	17.6	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	1523893	0.48	1709896	89.12	70	120	
Ge	72	2	He	1138644	0.94	1177618	96.69	70	120	
Ge	72	1	No Gas	3896285	1.47	4162003	93.62	70	120	
In	115	1	No Gas	4751392	0.36	5301074	89.63	70	120	
Bi	209	1	No Gas	4678059	0.43	5272521	88.73	70	120	

Interference Check Solution AB (ICS-AB) Report

Sample Table

Sample Name	ICSAB
Data File Name	027ICSB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T11:21:20-05:00
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	94.609	1.975	2437566	0.95	100	94.6	180	120	ICSB Main CR1 Failed
Be	9	1	No Gas	87.550	2.538	561388	1.58	100	87.5	80	120	
V	51	2	He	102.288	3.408	1050465	2.99	100	102.3	80	120	
Cr	52	2	He	101.063	3.562	1181532	3.12	100	101.1	80	120	
Fe	56	2	He	109062.487	2.602	1203331422	2.21	100	109062.5	80	120	ICSB Main CR1 Failed
Se	78	2	He	102.637	3.126	17803	2.68	100	102.6	80	120	
As	75	2	He	103.256	2.500	191219	2.08	100	103.3	80	120	
Ca	44	2	He	109984.747	1.562	7395528	1.15	100	109984.7	80	120	
Na	23	2	He	110850.587	2.517	196709744	2.10	100	110850.6	80	120	ICSB Main CR1 Failed
Mg	24	2	He	109003.593	2.869	119338295	2.47	100	109003.6	80	120	
K	39	2	He	111247.305	1.749	143282798	1.35	100	111247.3	80	120	ICSB Main CR1 Failed
Mn	55	2	He	100.356	3.314	910853	2.97	100	100.4	80	120	
Co	59	2	He	99.027	2.236	1781195	1.88	100	99.0	80	120	
Ni	60	2	He	95.961	2.911	443502	2.49	100	96.0	80	120	
Cu	63	2	He	96.236	2.654	1185047	2.26	100	96.2	80	120	
Zn	66	2	He	100.191	2.889	232306	2.45	100	100.2	80	120	
Al	27	2	He	101149.667	2.549	71396764	2.15	100	101149.7	80	120	ICSB Main CR1 Failed
B	11	1	No Gas	478.279	1.542	1760748	0.57	100	478.3	80	120	
Al	27	1	No Gas	94900.610	2.494	2521311962	1.32	100	94900.6	80	120	ICSB Main CR1 Failed
Si	28	1	No Gas	537.215	2.177	7285419	0.88	100	537.2	80	120	
Ag	107	1	No Gas	98.922	0.442	3305458	0.22	100	98.9	80	120	
Cd	111	1	No Gas	98.955	1.982	658338	1.58	100	99.0	80	120	
Sr	88	1	No Gas	103.311	1.167	6774612	0.79	100	103.3	80	120	
Mo	95	1	No Gas	2078.382	0.658	26267556	0.37	100	2078.4	80	120	
Sn	118	1	No Gas	101.851	1.709	2200867	1.49	100	101.9	80	120	
Sb	121	1	No Gas	100.539	2.485	3038067	1.34	100	100.5	80	120	
Ba	137	1	No Gas	102.763	2.469	1138460	2.15	100	102.8	80	120	
Tl	205	1	No Gas	101.782	2.256	6532668	1.08	100	101.8	80	120	
Tl	203	1	No Gas	101.236	3.275	2657525	2.06	100	101.2	80	120	
Pb	208	1	No Gas	103.619	1.389	10395996	0.48	100	103.6	80	120	
U	238	1	No Gas	103.084	1.543	11189888	0.80	100	103.1	80	120	
Ca	43	2	He	105193.891	1.222	411866	0.80	100	105193.9	80	120	
Sb	121	2	He	99.772	3.009	1374442	2.60	100	99.8	80	120	
Ti	47	2	He	2071.419	2.344	812246	1.93	100	2071.4	80	120	ICSB Main CR1 Failed
Cu	63	1	No Gas	96.183	2.773	2383092	1.60	100	96.2	80	120	
Se	82	1	No Gas	102.421	0.847	43169	0.48	100	102.4	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	1548509	0.95	1709896	90.56	70	120	
Ge	72	2	He	1139551	0.42	1177618	96.77	70	120	
Ge	72	1	No Gas	3963916	1.16	4162003	95.24	70	120	
In	115	1	No Gas	4889487	0.42	5301074	92.24	70	120	
Bi	209	1	No Gas	4748828	1.32	5272521	90.07	70	120	

Calibration Blank Report

Sample Table

Sample Name	CAL BLK
Data File Name	116CALB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T15:47:08-05:00
Sample Type	CalBlk
Level	1
Dilution	1
Comment	

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Li	7	1	No Gas	91003	0.00
Be	9	1	No Gas	230	12.29
V	51	2	He	3789	0.09
Cr	52	2	He	12990	0.01
Fe	56	2	He	20476	0.02
Se	78	2	He	153	2.60
As	75	2	He	346	0.32
Ca	44	2	He	920	0.82
Na	23	2	He	321941	0.00
Mg	24	2	He	893	0.52
K	39	2	He	124830	0.00
Mn	55	2	He	833	0.72
Co	59	2	He	803	0.24
Ni	60	2	He	423	1.96
Cu	63	2	He	757	1.57
Zn	66	2	He	943	0.96
Al	27	2	He	1797	0.70
B	11	1	No Gas	11521	0.02
Al	27	1	No Gas	64770	0.00
Si	28	1	No Gas	388377	0.00
Ag	107	1	No Gas	1130	0.54
Cd	111	1	No Gas	2	103340.62
Sr	88	1	No Gas	3444	0.10
Mo	95	1	No Gas	190	7.33
Sn	118	1	No Gas	6482	0.06
Sb	121	1	No Gas	597	0.90
Ba	137	1	No Gas	770	1.27
Tl	205	1	No Gas	2734	0.30
Tl	203	1	No Gas	1063	0.45
Pb	208	1	No Gas	5471	0.06
U	238	1	No Gas	3841	0.09
Ca	43	2	He	43	134.02
Sb	121	2	He	237	11.62
Ti	47	2	He	17	415.69
Cu	63	1	No Gas	7002	0.05

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD

Calibration Blank Report

Li	6	1	No Gas	1676119	0.51
Ge	72	2	He	1163381	0.64
Ge	72	1	No Gas	4078799	0.57
In	115	1	No Gas	5144583	0.25

Calibration Blank Report

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Bi	209	1	No Gas	4944446	1.35

Calibration Standard Report

Sample Table

Sample Name	2/10/200
Data File Name	117CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T15:49:38-05:00
Sample Type	CalStd
Level	2
Dilution	1
Comment	
ISTD Ref File Name	116CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	11772	0.02
V	51	2	He	23212	0.01
Cr	52	2	He	35322	0.00
Fe	56	2	He	2155481	0.00
Se	78	2	He	458	2.33
As	75	2	He	3747	0.04
Ca	44	2	He	14151	0.05
Na	23	2	He	654924	0.00
Mg	24	2	He	214489	0.00
K	39	2	He	369135	0.00
Mn	55	2	He	17908	0.02
Co	59	2	He	34687	0.01
Ni	60	2	He	9604	0.09
Cu	63	2	He	25267	0.01
Zn	66	2	He	6495	0.08
Al	27	2	He	3801	0.16
B	11	1	No Gas	47375	0.00
Al	27	1	No Gas	140429	0.00
Si	28	1	No Gas	529644	0.00
Ag	107	1	No Gas	69617	0.00
Cd	111	1	No Gas	13752	0.02
Sr	88	1	No Gas	131827	0.00
Mo	95	1	No Gas	25044	0.02
Sn	118	1	No Gas	50781	0.00
Sb	121	1	No Gas	60331	0.00
Ba	137	1	No Gas	24847	0.01
Tl	205	1	No Gas	135292	0.00
Tl	203	1	No Gas	56952	0.00
Pb	208	1	No Gas	202279	0.00
U	238	1	No Gas	199597	0.00
Ca	43	2	He	797	0.64
Sb	121	2	He	25084	0.01
Cu	63	1	No Gas	57507	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	1639782	0.41	1676119	97.83	70	120	
Ge	72	2	He	1169710	0.61	1163381	100.54	70	120	
Ge	72	1	No Gas	4098266	0.68	4078799	100.48	70	120	

Calibration Standard Report

In	115	1	No Gas	5137782	0.59	5144583	99.87	70	120	
Bi	209	1	No Gas	4967617	0.97	4944446	100.47	70	120	

Calibration Standard Report

Sample Table

Sample Name	5/25/500
Data File Name	118CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T15:52:08-05:00
Sample Type	CalStd
Level	3
Dilution	1
Comment	
ISTD Ref File Name	116CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	29162	0.00
V	51	2	He	51770	0.01
Cr	52	2	He	68185	0.01
Fe	56	2	He	5252887	0.00
Se	78	2	He	984	0.58
As	75	2	He	9142	0.03
Ca	44	2	He	32919	0.01
Na	23	2	He	1164117	0.00
Mg	24	2	He	529998	0.00
K	39	2	He	736485	0.00
Mn	55	2	He	43311	0.01
Co	59	2	He	87152	0.00
Ni	60	2	He	22676	0.02
Cu	63	2	He	59284	0.00
Zn	66	2	He	12589	0.04
Al	27	2	He	5088	0.10
B	11	1	No Gas	97622	0.00
Al	27	1	No Gas	190062	0.00
Si	28	1	No Gas	713460	0.00
Ag	107	1	No Gas	170821	0.00
Cd	111	1	No Gas	33166	0.01
Sr	88	1	No Gas	320927	0.00
Mo	95	1	No Gas	61895	0.00
Sn	118	1	No Gas	113983	0.00
Sb	121	1	No Gas	147473	0.00
Ba	137	1	No Gas	54450	0.01
Tl	205	1	No Gas	349044	0.00
Tl	203	1	No Gas	146964	0.00
Pb	208	1	No Gas	493261	0.00
U	238	1	No Gas	494594	0.00
Ca	43	2	He	1787	0.37
Sb	121	2	He	61523	0.01
Cu	63	1	No Gas	128742	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	1617927	0.35	1676119	96.53	70	120	
Ge	72	2	He	1158722	0.74	1163381	99.60	70	120	
Ge	72	1	No Gas	4067730	0.67	4078799	99.73	70	120	

Calibration Standard Report

In	115	1	No Gas	5148853	1.07	5144583	100.08	70	120	
Bi	209	1	No Gas	4977585	0.11	4944446	100.67	70	120	

Calibration Standard Report

Sample Table

Sample Name	10/50/100
Data File Name	119CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T15:54:39-05:00
Sample Type	CalStd
Level	4
Dilution	1
Comment	
ISTD Ref File Name	116CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	57352	0.01
V	51	2	He	102740	0.00
Cr	52	2	He	126207	0.00
Fe	56	2	He	10743920	0.00
Se	78	2	He	1679	0.09
As	75	2	He	17827	0.02
Ca	44	2	He	65210	0.00
Na	23	2	He	2070850	0.00
Mg	24	2	He	1096589	0.00
K	39	2	He	1377702	0.00
Mn	55	2	He	87315	0.00
Co	59	2	He	177025	0.00
Ni	60	2	He	45806	0.01
Cu	63	2	He	122701	0.00
Zn	66	2	He	23534	0.01
Al	27	2	He	8603	0.05
B	11	1	No Gas	183989	0.00
Al	27	1	No Gas	320636	0.00
Si	28	1	No Gas	991058	0.00
Ag	107	1	No Gas	341807	0.00
Cd	111	1	No Gas	66141	0.00
Sr	88	1	No Gas	641792	0.00
Mo	95	1	No Gas	123765	0.00
Sn	118	1	No Gas	224037	0.00
Sb	121	1	No Gas	292506	0.00
Ba	137	1	No Gas	110132	0.00
Tl	205	1	No Gas	721277	0.00
Tl	203	1	No Gas	303208	0.00
Pb	208	1	No Gas	999973	0.00
U	238	1	No Gas	1008708	0.00
Ca	43	2	He	3877	0.11
Sb	121	2	He	125278	0.00
Cu	63	1	No Gas	247851	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	1575065	0.57	1676119	93.97	70	120	
Ge	72	2	He	1138781	1.09	1163381	97.89	70	120	
Ge	72	1	No Gas	4031888	0.21	4078799	98.85	70	120	

Calibration Standard Report

In	115	1	No Gas	5123282	0.75	5144583	99.59	70	120	
Bi	209	1	No Gas	5040043	0.30	4944446	101.93	70	120	

Calibration Standard Report

Sample Table

Sample Name	100/500/10K
Data File Name	120CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T15:57:08-05:00
Sample Type	CalStd
Level	5
Dilution	1
Comment	
ISTD Ref File Name	116CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	554806	0.00
V	51	2	He	963216	0.00
Cr	52	2	He	1105734	0.00
Fe	56	2	He	104877322	0.00
Se	78	2	He	15483	0.02
As	75	2	He	172930	0.00
Ca	44	2	He	634861	0.00
Na	23	2	He	17609042	0.00
Mg	24	2	He	10690653	0.00
K	39	2	He	12412694	0.00
Mn	55	2	He	840741	0.00
Co	59	2	He	1710770	0.00
Ni	60	2	He	440247	0.00
Cu	63	2	He	1176878	0.00
Zn	66	2	He	220720	0.00
Al	27	2	He	67572	0.00
B	11	1	No Gas	1682651	0.00
Al	27	1	No Gas	2479820	0.00
Si	28	1	No Gas	6255444	0.00
Ag	107	1	No Gas	3234626	0.00
Cd	111	1	No Gas	637240	0.00
Sr	88	1	No Gas	6355008	0.00
Mo	95	1	No Gas	1205195	0.00
Sn	118	1	No Gas	2107881	0.00
Sb	121	1	No Gas	2790507	0.00
Ba	137	1	No Gas	1062548	0.00
Tl	205	1	No Gas	7269242	0.00
Tl	203	1	No Gas	2957485	0.00
Pb	208	1	No Gas	9889606	0.00
U	238	1	No Gas	10247645	0.00
Ca	43	2	He	37457	0.00
Sb	121	2	He	1206188	0.00
Cu	63	1	No Gas	2291888	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	1497358	0.53	1676119	89.33	70	120	
Ge	72	2	He	1121783	0.68	1163381	96.42	70	120	
Ge	72	1	No Gas	3905522	0.37	4078799	95.75	70	120	

Calibration Standard Report

In	115	1	No Gas	4999630	0.60	5144583	97.18	70	120	
Bi	209	1	No Gas	4891837	1.21	4944446	98.94	70	120	

Calibration Standard Report

Sample Table

Sample Name	200/1000/20K
Data File Name	121CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T15:59:38-05:00
Sample Type	CalStd
Level	6
Dilution	1
Comment	
ISTD Ref File Name	116CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	1090310	0.00
V	51	2	He	1920442	0.00
Cr	52	2	He	2185686	0.00
Fe	56	2	He	205654770	0.00
Se	78	2	He	30343	0.01
As	75	2	He	341031	0.00
Ca	44	2	He	1256934	0.00
Na	23	2	He	34254963	0.00
Mg	24	2	He	20805941	0.00
K	39	2	He	24012158	0.00
Mn	55	2	He	1665308	0.00
Co	59	2	He	3347949	0.00
Ni	60	2	He	858609	0.00
Cu	63	2	He	2312817	0.00
Zn	66	2	He	425720	0.00
Al	27	2	He	129111	0.00
B	11	1	No Gas	3294656	0.00
Al	27	1	No Gas	4792184	0.00
Si	28	1	No Gas	11798675	0.00
Ag	107	1	No Gas	6301259	0.00
Cd	111	1	No Gas	1261911	0.00
Sr	88	1	No Gas	12478417	0.00
Mo	95	1	No Gas	2406098	0.00
Sn	118	1	No Gas	4131093	0.00
Sb	121	1	No Gas	5562198	0.00
Ba	137	1	No Gas	2098758	0.00
Tl	205	1	No Gas	14476419	0.00
Tl	203	1	No Gas	5896563	0.00
Pb	208	1	No Gas	19833060	0.00
U	238	1	No Gas	20877187	0.00
Ca	43	2	He	73611	0.00
Sb	121	2	He	2432431	0.00
Cu	63	1	No Gas	4471531	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	1429491	0.91	1676119	85.29	70	120	
Ge	72	2	He	1098050	0.73	1163381	94.38	70	120	
Ge	72	1	No Gas	3855346	0.92	4078799	94.52	70	120	

Calibration Standard Report

In	115	1	No Gas	4853657	0.21	5144583	94.35	70	120	
Bi	209	1	No Gas	4884541	0.75	4944446	98.79	70	120	

Sample Report

Sample Table

Sample Name	LLCCV2
Data File Name	125LCV2.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T16:11:04-05:00
Sample Type	LLCCV2
Dilution	1
Comment	
ISTD Ref FileName	116CALB.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	2.017	2.017	2.12	127494	0.00	2	
Be	9	1	No Gas	2.004	2.004	2.19	11533	0.02	2	
V	51	2	He	1.927	1.927	0.83	22459	0.01	2	
Cr	52	2	He	1.900	1.900	1.50	33574	0.01	2	
Fe	56	2	He	200.958	200.958	1.23	2131452	0.01	200	
Se	78	2	He	2.188	2.188	2.87	485	0.45	2	
As	75	2	He	2.003	2.003	1.68	3816	0.05	2	
Ca	44	2	He	201.333	201.333	2.68	13784	1.46	200	
Na	23	2	He	138.740	138.740	1.43	551348	0.03	200	NewName Main CR1 Failed
Mg	24	2	He	197.791	197.791	1.47	211467	0.09	200	
K	39	2	He	194.890	194.890	1.62	358851	0.05	200	
Mn	55	2	He	1.977	1.977	3.10	17588	0.01	2	
Co	59	2	He	2.000	2.000	1.59	35005	0.01	2	
Ni	60	2	He	2.113	2.113	2.54	9684	0.02	2	
Cu	63	2	He	2.033	2.033	2.65	24743	0.01	2	
Zn	66	2	He	2.507	2.507	1.29	6368	0.04	2	
Al	27	2	He	2.806	2.806	11.29	3567	0.08	2	NewName Main CR1 Failed
B	11	1	No Gas	12.495	12.495	2.25	53077	0.02	10	
Al	27	1	No Gas	2.932	2.932	4.41	134448	0.00	2	NewName Main CR1 Failed
Si	28	1	No Gas	11.760	11.760	11.65	516388	0.00	10	
Ag	107	1	No Gas	2.018	2.018	1.88	67708	0.00	2	
Cd	111	1	No Gas	2.026	2.026	2.35	13349	0.02	2	
Sr	88	1	No Gas	1.947	1.947	1.36	130401	0.00	2	
Mo	95	1	No Gas	1.910	1.910	2.16	24129	0.01	2	
Sn	118	1	No Gas	2.093	2.093	2.53	51554	0.00	2	
Sb	121	1	No Gas	2.112	2.112	2.68	60886	0.00	2	
Ba	137	1	No Gas	2.223	2.223	2.57	25114	0.01	2	
Tl	205	1	No Gas	1.801	1.801	1.43	139174	0.00	2	
Tl	203	1	No Gas	1.858	1.858	0.94	58375	0.00	2	
Pb	208	1	No Gas	1.969	1.969	2.01	209612	0.00	2	
U	238	1	No Gas	1.878	1.878	1.25	208088	0.00	2	
Ca	43	2	He	193.860	193.860	11.45	770	25.18	200	
Sb	121	2	He	2.094	2.094	3.93	26113	0.01	2	
Ti	47	2	He	1.957	1.957	7.48	743	0.26	200	
Cu	63	1	No Gas	2.029	2.029	1.78	53501	0.00	2	
Se	82	1	No Gas	1.939	1.939	14.73	1177	0.16	2	
Zr	90	1	No Gas	1.648	1.648	2.26	68476	0.00	2	
Zr	90	2	He	1.691	1.691	0.11	28761	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	1526050	0.49	1676119	91.05	70	120	
Ge	72	2	He	1122637	0.21	1163381	96.50	70	120	
Ge	72	1	No Gas	3966371	0.78	4078799	97.24	70	120	
In	115	1	No Gas	5087287	0.59	5144583	98.89	70	120	
Bi	209	1	No Gas	5106980	1.07	4944446	103.29	70	120	

Sample Report

Sample Table

Sample Name	LLCCV5
Data File Name	126LCV5.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T16:13:29-05:00
Sample Type	LLCCV5
Dilution	1
Comment	
ISTD Ref FileName	116CALB.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	5.062	5.062	1.64	192457	0.00	5	
Be	9	1	No Gas	4.944	4.944	0.69	27796	0.02	5	
V	51	2	He	4.907	4.907	3.53	51910	0.01	5	
Cr	52	2	He	4.935	4.935	3.05	67685	0.01	5	
Fe	56	2	He	500.046	500.046	3.76	5311641	0.01	500	
Se	78	2	He	4.967	4.967	2.99	921	0.54	5	
As	75	2	He	4.972	4.972	1.83	9044	0.05	5	
Ca	44	2	He	501.470	501.470	2.79	33247	1.51	500	
Na	23	2	He	434.491	434.491	4.79	1071934	0.04	500	
Mg	24	2	He	493.228	493.228	3.82	529770	0.09	500	
K	39	2	He	489.295	489.295	3.79	724104	0.07	500	
Mn	55	2	He	4.935	4.935	3.90	42991	0.01	5	
Co	59	2	He	4.977	4.977	3.78	86554	0.01	5	
Ni	60	2	He	5.115	5.115	3.49	23030	0.02	5	
Cu	63	2	He	5.065	5.065	2.15	60985	0.01	5	
Zn	66	2	He	5.362	5.362	5.60	12676	0.04	5	
Al	27	2	He	5.152	5.152	11.41	5134	0.10	5	
B	11	1	No Gas	26.480	26.480	1.48	99487	0.03	25	
Al	27	1	No Gas	4.894	4.894	1.60	181312	0.00	5	
Si	28	1	No Gas	26.094	26.094	1.49	681860	0.00	25	
Ag	107	1	No Gas	5.113	5.113	2.46	168860	0.00	5	
Cd	111	1	No Gas	5.018	5.018	0.96	32871	0.02	5	
Sr	88	1	No Gas	4.809	4.809	1.52	315266	0.00	5	
Mo	95	1	No Gas	4.922	4.922	2.15	61557	0.01	5	
Sn	118	1	No Gas	5.084	5.084	1.53	115422	0.00	5	
Sb	121	1	No Gas	5.252	5.252	0.31	149728	0.00	5	
Ba	137	1	No Gas	4.988	4.988	1.46	55113	0.01	5	
Tl	205	1	No Gas	4.756	4.756	0.69	361715	0.00	5	
Tl	203	1	No Gas	4.922	4.922	0.94	152362	0.00	5	
Pb	208	1	No Gas	4.960	4.960	0.99	517621	0.00	5	
U	238	1	No Gas	4.717	4.717	1.28	514916	0.00	5	
Ca	43	2	He	467.477	467.477	8.35	1810	25.83	500	
Sb	121	2	He	5.061	5.061	3.36	63224	0.01	5	
Ti	47	2	He	4.584	4.584	15.47	1730	0.26	5	
Cu	63	1	No Gas	5.127	5.127	0.38	124150	0.00	5	
Se	82	1	No Gas	5.178	5.178	12.53	2414	0.21	5	
Zr	90	1	No Gas	4.388	4.388	1.44	179140	0.00	5	
Zr	90	2	He	4.428	4.428	4.42	73017	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	1507153	0.32	1676119	89.92	70	120	

Sample Report

Ge	72	2	He	1131031	1.52	1163381	97.22	70	120	
Ge	72	1	No Gas	3944895	0.51	4078799	96.72	70	120	
In	115	1	No Gas	5059192	0.84	5144583	98.34	70	120	
Bi	209	1	No Gas	5090535	0.59	4944446	102.95	70	120	

Initial Calibration Blank (ICB) Report

Sample Table

Sample Name	ICCB
Data File Name	127_ICB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T16:15:52-05:00
Sample Type	ICB
Dilution	1
Comment	
ISTD Ref File Name	116CALB.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	0.039	106.9	84314	1.4	0.5	
Be	9	1	No Gas	0.005	58.7	242	7.3	0.5	
V	51	2	He	-0.020	-35.4	3479	1.9	2.5	
Cr	52	2	He	-0.002	-2396.6	12583	5.2	2.5	
Fe	56	2	He	2.989	3.1	51483	2.0	100	
Se	78	2	He	-0.027	-597.7	145	17.5	1	
As	75	2	He	-0.012	-141.5	314	9.6	2.5	
Ca	44	2	He	42.639	7.5	3641	5.6	100	
Na	23	2	He	-56.344	-2.0	214242	1.0	100	
Mg	24	2	He	1.985	8.5	2994	5.9	100	
K	39	2	He	-3.774	-40.0	116543	1.7	100	
Mn	55	2	He	0.146	12.2	2057	7.2	2.5	
Co	59	2	He	0.005	130.1	860	12.3	2.5	
Ni	60	2	He	0.130	10.8	983	6.1	2.5	
Cu	63	2	He	0.066	4.2	1520	2.4	1	
Zn	66	2	He	0.942	7.3	2980	5.2	2.5	
Al	27	2	He	2.058	9.3	3097	4.2	5	
B	11	1	No Gas	1.967	5.1	17314	1.8	0.5	ICB Main CR1 Failed
Al	27	1	No Gas	2.118	5.9	113930	2.5	5	
Si	28	1	No Gas	4.725	6.6	430864	1.0	10	
Ag	107	1	No Gas	-0.003	-164.7	1013	16.5	2.5	
Cd	111	1	No Gas	-0.001	-212.4	-6	-286.3	1	
Sr	88	1	No Gas	0.100	11.6	9904	7.4	2.5	
Mo	95	1	No Gas	0.012	6.0	340	2.9	2.5	
Sn	118	1	No Gas	0.041	50.9	7272	6.3	5	
Sb	121	1	No Gas	0.033	7.3	1510	4.3	2.5	
Ba	137	1	No Gas	0.221	14.3	3174	11.1	2.5	
Tl	205	1	No Gas	0.002	178.1	2990	10.2	1	
Tl	203	1	No Gas	0.006	65.1	1270	8.9	1	
Pb	208	1	No Gas	0.006	50.5	6271	4.7	2.5	
U	238	1	No Gas	0.003	75.2	4261	5.6	2.5	
Ca	43	2	He	30.325	13.1	157	9.8	100	
Sb	121	2	He	0.031	17.4	617	10.8	2.5	
Ti	47	2	He	-0.008	-198.8	13	43.3	2.5	
Se	82	1	No Gas	0.055	104.9	447	5.2	1	
Zr	90	1	No Gas	0.086	10.3	4784	7.6	2.5	
Zr	90	2	He	0.070	32.5	2864	12.9	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	1536705	0.30	1676119	91.68	70	120	
Ge	72	2	He	1129419	0.19	1163381	97.08	70	120	
Ge	72	1	No Gas	3942786	0.19	4078799	96.67	70	120	
In	115	1	No Gas	5077277	0.28	5144583	98.69	70	120	

Initial Calibration Blank (ICB) Report

Bi	209	1	No Gas	5083205	0.55	4944446	102.81	70	120	

Initial Calibration Verification (ICV) Report

Sample Table

Sample Name	ICCV
Data File Name	128_ICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T16:18:16-05:00
Sample Type	ICV
Dilution	1
Comment	
ISTD Ref File Name	116CALB.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	99.498	2.460	2177117	2.37	100	99.5	90	110	
Be	9	1	No Gas	99.663	2.658	536902	2.66	100	99.7	90	110	
V	51	2	He	99.833	1.632	974654	1.60	100	99.8	90	110	
Cr	52	2	He	100.212	2.031	1118697	1.80	100	100.2	90	110	
Fe	56	2	He	10077.376	0.687	105560958	1.15	10000	100.8	90	110	
Se	78	2	He	101.341	2.780	15721	3.16	100	101.3	90	110	
As	75	2	He	100.233	1.379	174028	1.62	100	100.2	90	110	
Ca	44	2	He	9861.725	1.168	630454	1.62	10000	98.6	90	110	
Na	23	2	He	10020.113	0.647	17633239	1.51	10000	100.2	90	110	
Mg	24	2	He	10086.049	0.891	10704612	1.23	10000	100.9	90	110	
K	39	2	He	10033.475	1.427	12352314	1.74	10000	100.3	90	110	
Mn	55	2	He	99.976	1.300	846637	2.27	100	100.0	90	110	
Co	59	2	He	100.957	1.037	1722475	0.87	100	101.0	90	110	
Ni	60	2	He	101.174	1.239	443088	1.28	100	101.2	90	110	
Cu	63	2	He	100.887	1.441	1188162	1.13	100	100.9	90	110	
Zn	66	2	He	102.229	2.548	222732	1.77	100	102.2	90	110	
Al	27	2	He	101.700	2.062	67910	2.45	100	101.7	90	110	
B	11	1	No Gas	503.925	1.365	1646673	1.36	500	100.8	90	110	
Al	27	1	No Gas	98.015	2.661	2424660	1.98	100	98.0	90	110	
Si	28	1	No Gas	493.126	2.811	6125285	2.04	500	98.6	90	110	
Ag	107	1	No Gas	99.246	1.546	3192384	1.23	100	99.2	90	110	
Cd	111	1	No Gas	98.208	2.120	630472	2.15	100	98.2	90	110	
Sr	88	1	No Gas	98.939	1.831	6291956	1.36	100	98.9	90	110	
Mo	95	1	No Gas	98.045	1.291	1198185	0.93	100	98.0	90	110	
Sn	118	1	No Gas	99.381	1.674	2095373	1.59	100	99.4	90	110	
Sb	121	1	No Gas	98.636	2.147	2784794	1.55	100	98.6	90	110	
Ba	137	1	No Gas	98.472	2.089	1052154	1.70	100	98.5	90	110	
Tl	205	1	No Gas	98.785	2.262	7343951	2.57	100	98.8	90	110	
Tl	203	1	No Gas	98.566	1.754	2984190	2.21	100	98.6	90	110	
Pb	208	1	No Gas	98.360	2.202	10005159	2.66	100	98.4	90	110	
U	238	1	No Gas	98.346	2.280	10495651	2.72	100	98.3	90	110	
Ca	43	2	He	9929.435	2.559	37220	1.76	10000	99.3	90	110	
Sb	121	2	He	99.177	1.101	1221978	1.44	100	99.2	90	110	
Ti	47	2	He	101.082	1.683	37454	0.92	100	101.1	90	110	
Cu	63	1	No Gas	99.696	2.380	2275133	1.78	100	99.7	90	110	
Se	82	1	No Gas	100.663	2.338	38846	1.71	100	100.7	90	110	
Zr	90	1	No Gas	97.330	1.765	3867343	1.29	100	97.3	90	110	
Zr	90	2	He	97.795	0.591	1559828	1.35	100	97.8	90	1100	

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	1454301	0.00	1676119	86.77	70	120	
Ge	72	2	He	1118961	1.46	1163381	96.18	70	120	
Ge	72	1	No Gas	3921161	0.61	4078799	96.14	70	120	
In	115	1	No Gas	4957788	0.53	5144583	96.37	70	120	
Bi	209	1	No Gas	5013513	0.91	4944446	101.40	70	120	

Interference Check Solution A (ICS-A) Report

Sample Table

Sample Name	ICSA
Data File Name	130ICSA.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T16:29:40-05:00
Sample Type	ICSA
Dilution	1
Comment	
ISTD Ref File Name	116CALB.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	0.358	1.6	82287	0.3	0	ICSA Main CR1 Failed
Be	9	1	No Gas	0.026	19.9	325	8.6	0	ICSA Main CR1 Failed
V	51	2	He	0.267	9.7	5997	3.6	0	ICSA Main CR1 Failed
Cr	52	2	He	0.806	4.0	20562	1.3	0	ICSA Main CR1 Failed
Fe	56	2	He	98348.270	1.3	990302145	1.5	0	
Se	78	2	He	0.151	168.4	164	22.6	0	ICSA Main CR1 Failed
As	75	2	He	0.371	6.7	938	4.8	0	ICSA Main CR1 Failed
Ca	44	2	He	99406.286	1.8	6102115	2.1	0	
Na	23	2	He	99974.006	1.5	166468284	1.7	0	
Mg	24	2	He	98846.466	1.9	100855442	2.1	0	
K	39	2	He	101153.495	1.3	118678692	1.5	0	
Mn	55	2	He	1.810	2.9	15489	2.7	0	ICSA Main CR1 Failed
Co	59	2	He	1.010	1.2	17298	1.2	0	ICSA Main CR1 Failed
Ni	60	2	He	0.998	2.6	4591	1.9	0	ICSA Main CR1 Failed
Cu	63	2	He	0.708	3.9	8710	3.1	0	ICSA Main CR1 Failed
Zn	66	2	He	2.944	1.6	7015	1.3	0	ICSA Main CR1 Failed
Al	27	2	He	103953.730	1.9	65038362	2.1	0	
B	11	1	No Gas	3.288	9.6	19667	4.8	0	
Al	27	1	No Gas	98464.957	2.8	2217983434	1.9	0	
Si	28	1	No Gas	37.470	10.5	757742	6.5	0	
Ag	107	1	No Gas	0.025	22.7	1760	11.1	0	ICSA Main CR1 Failed
Cd	111	1	No Gas	0.735	19.8	4351	18.6	0	ICSA Main CR1 Failed
Sr	88	1	No Gas	0.887	3.4	55119	1.8	0	ICSA Main CR1 Failed
Mo	95	1	No Gas	2006.802	2.1	22649670	0.9	0	
Sn	118	1	No Gas	0.218	10.3	10001	4.2	0	ICSA Main CR1 Failed
Sb	121	1	No Gas	0.164	10.5	4851	9.1	0	ICSA Main CR1 Failed
Ba	137	1	No Gas	0.439	6.4	5014	4.3	0	ICSA Main CR1 Failed
Tl	205	1	No Gas	0.006	40.7	2890	5.9	0	ICSA Main CR1 Failed
Tl	203	1	No Gas	0.010	33.6	1243	7.2	0	ICSA Main CR1 Failed
Pb	208	1	No Gas	0.874	2.6	85471	2.4	0	ICSA Main CR1 Failed
U	238	1	No Gas	0.008	23.1	4271	3.5	0	ICSA Main CR1 Failed
Ca	43	2	He	95843.592	0.9	345112	1.2	0	
Sb	121	2	He	0.146	4.1	1947	3.9	0	ICSA Main CR1 Failed
Ti	47	2	He	2001.390	2.1	712750	2.2	0	
Se	82	1	No Gas	0.416	44.1	543	11.1	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	1383481	0.37	1676119	82.54	70	120	
Ge	72	2	He	1075739	0.47	1163381	92.47	70	120	
Ge	72	1	No Gas	3664810	1.04	4078799	89.85	70	120	
In	115	1	No Gas	4580139	1.50	5144583	89.03	70	120	
Bi	209	1	No Gas	4540268	0.63	4944446	91.83	70	120	

Interference Check Solution AB (ICS-AB) Report

Sample Table

Sample Name	ICSAB
Data File Name	131ICSB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T16:32:11-05:00
Sample Type	ICSB
Dilution	1
Comment	
ISTD Ref File Name	116CALB.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	101.638	1.890	2078349	1.54	100	101.6	180	120	ICSB Main CR1 Failed
Be	9	1	No Gas	96.891	1.764	488179	1.43	100	96.9	80	120	
V	51	2	He	99.387	2.466	954030	2.28	100	99.4	80	120	
Cr	52	2	He	97.577	2.732	1071343	2.49	100	97.6	80	120	
Fe	56	2	He	104873.313	2.892	1079903451	2.76	100	104873.3	80	120	ICSB Main CR1 Failed
Se	78	2	He	102.827	3.107	15680	2.92	100	102.8	80	120	
As	75	2	He	100.327	2.567	171266	2.50	100	100.3	80	120	
Ca	44	2	He	104746.385	3.200	6575082	2.88	100	104746.4	80	120	ICSB Main CR1 Failed
Na	23	2	He	105760.470	2.387	180072257	2.23	100	105760.5	80	120	ICSB Main CR1 Failed
Mg	24	2	He	104449.605	2.907	108984382	2.78	100	104449.6	80	120	ICSB Main CR1 Failed
K	39	2	He	105904.002	2.042	127062011	2.03	100	105904.0	80	120	ICSB Main CR1 Failed
Mn	55	2	He	97.499	2.820	811730	2.70	100	97.5	80	120	
Co	59	2	He	96.529	2.584	1619375	2.56	100	96.5	80	120	
Ni	60	2	He	94.087	3.196	405161	3.07	100	94.1	80	120	
Cu	63	2	He	93.867	2.544	1087015	2.44	100	93.9	80	120	
Zn	66	2	He	98.536	3.575	211139	3.45	100	98.5	80	120	
Al	27	2	He	98705.068	2.485	63154012	2.53	100	98705.1	80	120	ICSB Main CR1 Failed
B	11	1	No Gas	518.422	1.250	1584088	0.81	100	518.4	80	120	
Al	27	1	No Gas	94212.890	3.179	2179570421	1.84	100	94212.9	80	120	ICSB Main CR1 Failed
Si	28	1	No Gas	530.795	2.471	6301319	1.00	100	530.8	80	120	
Ag	107	1	No Gas	98.537	2.057	2962834	0.87	100	98.5	80	120	
Cd	111	1	No Gas	100.069	1.571	600531	0.85	100	100.1	80	120	
Sr	88	1	No Gas	104.207	3.641	6193324	1.82	100	104.2	80	120	
Mo	95	1	No Gas	2067.179	3.113	23607650	1.32	100	2067.2	80	120	ICSB Main CR1 Failed
Sn	118	1	No Gas	103.654	2.524	2042502	1.01	100	103.7	80	120	
Sb	121	1	No Gas	104.423	1.629	2830034	0.72	100	104.4	80	120	
Ba	137	1	No Gas	102.771	1.706	1026480	0.50	100	102.8	80	120	
Tl	205	1	No Gas	97.338	0.869	6609837	0.63	100	97.3	80	120	
Tl	203	1	No Gas	97.747	1.039	2703125	0.80	100	97.7	80	120	
Pb	208	1	No Gas	103.277	1.340	9595010	1.10	100	103.3	80	120	
U	238	1	No Gas	104.453	1.397	10181597	1.16	100	104.5	80	120	
Ca	43	2	He	100740.236	2.838	370936	2.43	100	100740.2	80	120	ICSB Main CR1 Failed
Sb	121	2	He	101.227	2.794	1226244	2.56	100	101.2	80	120	
Ti	47	2	He	1990.942	3.139	725056	2.84	100	1990.9	80	120	ICSB Main CR1 Failed
Cu	63	1	No Gas	96.523	2.354	2114542	1.02	100	96.5	80	120	
Se	82	1	No Gas	106.484	4.113	39414	2.76	100	106.5	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	1360186	0.44	1676119	81.15	70	120	
Ge	72	2	He	1100153	0.73	1163381	94.57	70	120	
Ge	72	1	No Gas	3764228	1.32	4078799	92.29	70	120	
In	115	1	No Gas	4635240	1.79	5144583	90.10	70	120	
Bi	209	1	No Gas	4579544	0.24	4944446	92.62	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	134_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T16:42:30-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	116CALB.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	100.550	2.241	2061873	2.02	100	100.5	90	110	
Be	9	1	No Gas	100.052	1.868	505319	1.70	100	100.1	90	110	
V	51	2	He	99.859	0.584	965369	1.02	100	99.9	90	110	
Cr	52	2	He	100.180	0.831	1107406	0.92	100	100.2	90	110	
Fe	56	2	He	10111.096	0.279	104874045	0.76	10000	101.1	90	110	
Se	78	2	He	99.498	0.361	15285	0.45	100	99.5	90	110	
As	75	2	He	99.895	1.468	171738	1.55	100	99.9	90	110	
Ca	44	2	He	9724.528	1.427	615575	1.47	10000	97.2	90	110	
Na	23	2	He	9968.711	1.214	17371078	1.09	10000	99.7	90	110	
Mg	24	2	He	10025.231	1.036	10535448	1.03	10000	100.3	90	110	
K	39	2	He	10028.992	1.180	12225331	1.18	10000	100.3	90	110	
Mn	55	2	He	98.574	0.220	826507	0.78	100	98.6	90	110	
Co	59	2	He	101.461	0.395	1714134	0.67	100	101.5	90	110	
Ni	60	2	He	100.915	0.873	437613	0.61	100	100.9	90	110	
Cu	63	2	He	100.976	0.687	1177584	0.86	100	101.0	90	110	
Zn	66	2	He	101.242	0.983	218454	1.14	100	101.2	90	110	
Al	27	2	He	99.661	1.090	65928	1.31	100	99.7	90	110	
B	11	1	No Gas	511.988	1.184	1568355	1.13	500	102.4	90	110	
Al	27	1	No Gas	97.019	2.053	2343938	1.40	100	97.0	90	110	
Si	28	1	No Gas	482.926	1.955	5864650	1.60	5000	9.7	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	99.724	1.652	3194823	1.10	100	99.7	90	110	
Cd	111	1	No Gas	98.143	1.836	627490	1.25	100	98.1	90	110	
Sr	88	1	No Gas	97.968	2.359	6205063	1.79	100	98.0	90	110	
Mo	95	1	No Gas	97.400	1.108	1185561	1.08	100	97.4	90	110	
Sn	118	1	No Gas	99.937	1.474	2098563	1.08	100	99.9	90	110	
Sb	121	1	No Gas	101.141	1.852	2788029	1.33	100	101.1	90	110	
Ba	137	1	No Gas	98.473	1.519	1047941	0.93	100	98.5	90	110	
Tl	205	1	No Gas	99.346	1.126	7459016	1.64	100	99.3	90	110	
Tl	203	1	No Gas	99.800	0.947	3051461	1.30	100	99.8	90	110	
Pb	208	1	No Gas	98.877	1.722	10157533	2.23	100	98.9	90	110	
U	238	1	No Gas	99.247	0.797	10696650	1.34	100	99.2	90	110	
Ca	43	2	He	9911.115	2.777	36789	2.39	10000	99.1	90	110	
Sb	121	2	He	100.093	1.084	1221112	0.81	100	100.1	90	110	
Ti	47	2	He	98.676	1.059	36208	1.34	100	98.7	90	110	
Cu	63	1	No Gas	99.448	1.635	2215962	1.50	100	99.4	90	110	
Se	82	1	No Gas	98.686	3.479	37188	2.69	100	98.7	90	110	
Zr	90	1	No Gas	95.462	2.317	3777884	1.88	100	95.5	90	110	
Zr	90	2	He	98.212	1.248	1550985	0.77	100	98.2	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	1363455	0.23	1676119	81.35	70	120	
Ge	72	2	He	1107920	0.57	1163381	95.23	70	120	
Ge	72	1	No Gas	3828711	1.61	4078799	93.87	70	120	
In	115	1	No Gas	4937954	0.74	5144583	95.98	70	120	
Bi	209	1	No Gas	5063257	0.64	4944446	102.40	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	135_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T16:44:54-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	116CALB.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	0.003	826.4	79564	1.4	0.5	
Be	9	1	No Gas	0.015	64.9	280	19.3	0.5	
V	51	2	He	-0.173	-1.5	1995	2.2	2.5	
Cr	52	2	He	-0.483	-1.4	7275	2.5	2.5	
Fe	56	2	He	1.011	7.0	30752	3.9	100	
Se	78	2	He	0.095	106.1	165	11.0	2	
As	75	2	He	-0.034	-35.4	278	6.2	2.5	
Ca	44	2	He	3.112	10.6	1100	3.3	100	
Na	23	2	He	-81.597	-1.6	171139	0.1	100	
Mg	24	2	He	0.183	15.8	1070	4.3	100	
K	39	2	He	-1.240	-27.3	120354	1.5	100	
Mn	55	2	He	0.160	19.6	2190	13.5	2.5	
Co	59	2	He	0.004	56.4	857	5.8	2.5	
Ni	60	2	He	0.059	25.6	673	9.9	2.5	
Cu	63	2	He	0.041	28.0	1223	10.9	2	
Zn	66	2	He	0.669	8.6	2394	4.4	2.5	
Al	27	2	He	-0.961	-17.7	1120	9.4	5	
B	11	1	No Gas	3.471	10.7	21420	5.9	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	-0.813	-21.0	42736	9.4	5	
Si	28	1	No Gas	0.666	66.0	381886	1.3	10	
Ag	107	1	No Gas	-0.012	-12.8	737	6.1	2.5	
Cd	111	1	No Gas	0.000	-422.4	0	-2056.6	1	
Sr	88	1	No Gas	-0.024	-9.9	1820	9.1	2.5	
Mo	95	1	No Gas	0.097	9.0	1400	7.5	2.5	
Sn	118	1	No Gas	0.014	122.5	6698	5.8	5	
Sb	121	1	No Gas	0.187	14.7	5868	13.2	2.5	
Ba	137	1	No Gas	0.013	31.2	903	5.5	2.5	
Tl	205	1	No Gas	0.012	45.6	3747	11.2	1	
Tl	203	1	No Gas	0.015	47.4	1577	14.5	1	
Pb	208	1	No Gas	0.009	47.4	6624	6.1	2.5	
U	238	1	No Gas	0.007	33.5	4794	5.4	2.5	
Ca	43	2	He	7.235	92.2	70	37.8	100	
Sb	121	2	He	0.139	13.1	1967	13.0	2.5	
Ti	47	2	He	-0.017	-161.8	10	100.0	2.5	
Cu	63	1	No Gas	-0.140	-3.3	3551	2.8	2.5	
Se	82	1	No Gas	-0.001	-10404.7	423	10.7	2	
Zr	90	1	No Gas	0.177	20.2	8490	16.9	2.5	
Zr	90	2	He	0.109	17.5	3521	9.8	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	1464404	1.12	1676119	87.37	70	120	
Ge	72	2	He	1135977	1.44	1163381	97.64	70	120	
Ge	72	1	No Gas	3928910	0.27	4078799	96.33	70	120	

Continuing Calibration Blank (CCB) Report

In	115	1	No Gas	5079849	0.51	5144583	98.74	70	120	
Bi	209	1	No Gas	5145448	0.60	4944446	104.07	70	120	

Sample Report

Sample Table

Sample Name	MBLK-213798
Data File Name	136SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T16:47:17-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 213798
ISTD Ref FileName	116CALB.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	-0.019	-0.019	-153.28	79922	0.00	2000	
Be	9	1	No Gas	0.010	0.010	50.47	257	0.00	2000	
V	51	2	He	-0.184	-0.184	-2.24	1867	-0.01	2000	
Cr	52	2	He	-0.451	-0.451	-2.69	7556	-0.01	2000	
Fe	56	2	He	2.172	2.172	3.42	42683	0.01	200000	
Se	78	2	He	0.119	0.119	121.98	167	0.07	2000	
As	75	2	He	-0.041	-0.041	-52.35	262	-0.02	2000	
Ca	44	2	He	21.240	21.240	10.30	2254	0.94	200000	
Na	23	2	He	-83.461	-83.461	-0.42	166312	-0.05	200000	
Mg	24	2	He	0.992	0.992	2.41	1924	0.05	200000	
K	39	2	He	-0.537	-0.537	-117.71	120086	0.00	200000	
Mn	55	2	He	0.546	0.546	3.38	5448	0.01	2000	
Co	59	2	He	-0.001	-0.001	-1089.80	763	0.00	2000	
Ni	60	2	He	0.232	0.232	10.35	1430	0.02	2000	
Cu	63	2	He	0.132	0.132	5.46	2300	0.01	2000	
Zn	66	2	He	1.940	1.940	4.37	5148	0.04	2000	
Al	27	2	He	0.529	0.529	91.52	2084	0.03	2000	
B	11	1	No Gas	1.364	1.364	13.04	14674	0.01	2000	
Al	27	1	No Gas	0.574	0.574	2.54	76260	0.00	2000	
Si	28	1	No Gas	2.829	2.829	7.45	407269	0.00	2000	
Ag	107	1	No Gas	-0.015	-0.015	-39.91	630	0.00	2000	
Cd	111	1	No Gas	-0.003	-0.003	-352.35	-16	0.02	2000	
Sr	88	1	No Gas	-0.008	-0.008	-55.32	2897	0.00	2000	
Mo	95	1	No Gas	0.041	0.041	7.49	703	0.01	2000	
Sn	118	1	No Gas	0.153	0.153	13.35	9661	0.00	2000	
Sb	121	1	No Gas	0.051	0.051	1.87	2007	0.00	2000	
Ba	137	1	No Gas	0.011	0.011	101.48	873	0.00	2000	
Tl	205	1	No Gas	0.002	0.002	30.09	2990	0.00	2000	
Tl	203	1	No Gas	0.007	0.007	44.76	1337	0.00	2000	
Pb	208	1	No Gas	0.015	0.015	21.67	7261	0.00	2000	
U	238	1	No Gas	0.003	0.003	94.33	4338	0.00	2000	
Ca	43	2	He	27.848	27.848	22.68	147	18.99	200000	
Sb	121	2	He	0.051	0.051	12.63	857	0.01	2000	
Ti	47	2	He	0.011	0.011	673.62	20	0.05	2000	
Cu	63	1	No Gas	-0.057	-0.057	-24.66	5455	0.00	2000	
Ca	44	1	No Gas	19.957	19.957	6.93	44378	0.04	200000	
Zn	66	1	No Gas	1.810	1.810	2.13	14004	0.01	2000	
Se	82	1	No Gas	-0.281	-0.281	-33.32	317	-0.09	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	1479387	0.60	1676119	88.26	70	120	
Ge	72	2	He	1125319	0.72	1163381	96.73	70	120	
Ge	72	1	No Gas	3929819	0.86	4078799	96.35	70	120	

Sample Report

In	115	1	No Gas	5056449	0.50	5144583	98.29	70	120	
Bi	209	1	No Gas	5170787	0.28	4944446	104.58	70	120	

Sample Report

Sample Table

Sample Name	LCS-213798
Data File Name	137SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T16:49:41-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 213798
ISTD Ref FileName	116CALB.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	90.118	90.118	2.03	1865004	0.00	2000	
Be	9	1	No Gas	46.508	46.508	1.77	236176	0.02	2000	
V	51	2	He	46.335	46.335	3.53	449982	0.01	2000	
Cr	52	2	He	47.169	47.169	3.10	528120	0.01	2000	
Fe	56	2	He	4812.026	4812.026	2.91	49937048	0.01	200000	
Se	78	2	He	47.191	47.191	4.21	7328	0.64	2000	
As	75	2	He	47.172	47.172	2.29	81300	0.06	2000	
Ca	44	2	He	4767.361	4767.361	3.41	302308	1.58	200000	
Na	23	2	He	4680.112	4680.112	2.65	8320905	0.06	200000	
Mg	24	2	He	4806.518	4806.518	3.26	5053058	0.10	200000	
K	39	2	He	4746.942	4746.942	3.67	5850647	0.08	200000	
Mn	55	2	He	49.095	49.095	2.96	412167	0.01	2000	
Co	59	2	He	47.616	47.616	2.81	805106	0.01	2000	
Ni	60	2	He	48.371	48.371	1.29	210063	0.02	2000	
Cu	63	2	He	47.830	47.830	3.00	558357	0.01	2000	
Zn	66	2	He	55.087	55.087	2.09	119319	0.05	2000	
Al	27	2	He	105.182	105.182	3.15	69504	0.15	2000	
B	11	1	No Gas	414.139	414.139	1.26	1276784	0.03	2000	
Al	27	1	No Gas	101.489	101.489	2.94	2464515	0.00	2000	
Si	28	1	No Gas	498.782	498.782	2.71	6083123	0.01	2000	
Ag	107	1	No Gas	47.933	47.933	1.96	1543085	0.00	2000	
Cd	111	1	No Gas	46.529	46.529	2.25	298848	0.02	2000	
Sr	88	1	No Gas	82.851	82.851	2.89	5271516	0.00	2000	
Mo	95	1	No Gas	45.928	45.928	2.00	561612	0.01	2000	
Sn	118	1	No Gas	83.809	83.809	1.77	1768773	0.00	2000	
Sb	121	1	No Gas	49.259	49.259	2.75	1366666	0.00	2000	
Ba	137	1	No Gas	46.744	46.744	1.78	500070	0.01	2000	
Tl	205	1	No Gas	40.165	40.165	1.27	3047483	0.00	2000	
Tl	203	1	No Gas	39.873	39.873	1.19	1232024	0.00	2000	
Pb	208	1	No Gas	46.427	46.427	1.24	4820006	0.00	2000	
U	238	1	No Gas	85.576	85.576	1.30	9316118	0.00	2000	
Ca	43	2	He	4848.856	4848.856	6.46	18022	26.91	200000	
Sb	121	2	He	48.713	48.713	2.48	594625	0.01	2000	
Ti	47	2	He	128.774	128.774	3.91	47257	0.27	2000	
Cu	63	1	No Gas	46.788	46.788	2.18	1052631	0.00	2000	
Ca	44	1	No Gas	4744.246	4744.246	2.68	4254771	0.11	200000	
Zn	66	1	No Gas	53.433	53.433	2.47	330574	0.02	2000	
Se	82	1	No Gas	46.296	46.296	2.65	17779	0.26	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	1370254	0.33	1676119	81.75	70	120	
Ge	72	2	He	1108488	1.10	1163381	95.28	70	120	
Ge	72	1	No Gas	3852818	1.23	4078799	94.46	70	120	

Sample Report

In	115	1	No Gas	4960094	1.07	5144583	96.41	70	120	
Bi	209	1	No Gas	5113667	0.95	4944446	103.42	70	120	

Sample Report

Sample Table

Sample Name	HS24060694-01SD
Data File Name	138SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T16:52:05-05:00
Sample Type	Sample
Dilution	5
Comment	TW DOD B 213798
ISTD Ref FileName	116CALB.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	3.244	16.218	3.03	145979	0.00	2000	
Be	9	1	No Gas	0.013	0.066	36.81	268	0.00	2000	
V	51	2	He	0.145	0.726	20.25	5081	0.00	2000	
Cr	52	2	He	-0.077	-0.384	-51.78	11705	0.00	2000	
Fe	56	2	He	45.694	228.469	0.77	500935	0.01	200000	
Se	78	2	He	0.176	0.880	96.69	175	0.10	2000	
As	75	2	He	0.063	0.317	42.18	444	0.01	2000	
Ca	44	2	He	3250.460	16252.298	0.74	209507	1.55	200000	
Na	23	2	He	36582.220	182911.100	1.06	63896271	0.06	200000	
Mg	24	2	He	1746.611	8733.054	0.98	1864384	0.09	200000	
K	39	2	He	221.549	1107.745	1.27	392285	0.06	200000	
Mn	55	2	He	41.009	205.045	1.47	349566	0.01	2000	
Co	59	2	He	0.186	0.932	10.85	3971	0.00	2000	
Ni	60	2	He	0.925	4.624	2.75	4477	0.02	2000	
Cu	63	2	He	0.220	1.101	5.06	3337	0.01	2000	
Zn	66	2	He	12.935	64.673	3.74	29138	0.04	2000	
Al	27	2	He	5.698	28.491	6.07	5464	0.10	2000	
B	11	1	No Gas	6.060	30.299	4.02	29400	0.02	2000	
Al	27	1	No Gas	5.572	27.861	2.30	196322	0.00	2000	
Si	28	1	No Gas	4737.154	23685.772	2.14	55559688	0.01	2000	>LDR
Ag	107	1	No Gas	-0.005	-0.024	-94.28	953	0.00	2000	
Cd	111	1	No Gas	0.029	0.147	18.70	195	0.02	2000	
Sr	88	1	No Gas	50.030	250.149	1.74	3253428	0.00	2000	
Mo	95	1	No Gas	0.074	0.372	7.74	1117	0.01	2000	
Sn	118	1	No Gas	0.570	2.849	2.54	18627	0.00	2000	
Sb	121	1	No Gas	0.083	0.413	10.87	2900	0.00	2000	
Ba	137	1	No Gas	39.688	198.441	0.57	433846	0.01	2000	
Tl	205	1	No Gas	0.051	0.254	38.05	6692	0.00	2000	
Tl	203	1	No Gas	0.057	0.283	48.76	2850	0.00	2000	
Pb	208	1	No Gas	0.020	0.102	11.44	7784	0.00	2000	
U	238	1	No Gas	0.124	0.619	1.18	17459	0.00	2000	
Ca	43	2	He	3386.574	16932.869	2.60	12789	26.48	200000	
Sb	121	2	He	0.072	0.358	4.11	1117	0.01	2000	
Ti	47	2	He	0.297	1.487	46.79	127	0.23	2000	
Cu	63	1	No Gas	0.293	1.463	2.33	13373	0.00	2000	
Ca	44	1	No Gas	3253.141	16265.704	2.06	2973953	0.11	200000	
Zn	66	1	No Gas	12.399	61.995	1.07	80019	0.02	2000	
Se	82	1	No Gas	-0.225	-1.126	-74.55	337	-0.07	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	1440651	0.26	1676119	85.95	70	120	
Ge	72	2	He	1124946	1.43	1163381	96.70	70	120	
Ge	72	1	No Gas	3916111	0.42	4078799	96.01	70	120	

Sample Report

In	115	1	No Gas	5066507	0.52	5144583	98.48	70	120	
Bi	209	1	No Gas	5117974	0.40	4944446	103.51	70	120	

Sample Report

Sample Table

Sample Name	HS24060694-01
Data File Name	139SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T16:54:29-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 213798
ISTD Ref FileName	116CALB.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	15.539	15.539	1.18	389843	0.00	2000	
Be	9	1	No Gas	0.021	0.021	28.57	302	0.01	2000	
V	51	2	He	1.125	1.125	2.31	14831	0.01	2000	
Cr	52	2	He	1.750	1.750	4.89	32355	0.01	2000	
Fe	56	2	He	221.748	221.748	1.63	2382134	0.01	200000	
Se	78	2	He	0.320	0.320	30.65	200	0.16	2000	
As	75	2	He	0.343	0.343	10.17	942	0.04	2000	
Ca	44	2	He	16196.800	16196.800	1.92	1052542	1.54	200000	
Na	23	2	He	178852.368	178852.368	1.35	314784055	0.06	200000	
Mg	24	2	He	8498.644	8498.644	1.36	9173731	0.09	200000	
K	39	2	He	1123.283	1123.283	0.64	1514897	0.07	200000	
Mn	55	2	He	201.160	201.160	1.96	1731609	0.01	2000	
Co	59	2	He	0.901	0.901	2.61	16403	0.01	2000	
Ni	60	2	He	4.569	4.569	1.46	20749	0.02	2000	
Cu	63	2	He	1.140	1.140	1.38	14391	0.01	2000	
Zn	66	2	He	60.141	60.141	2.30	133667	0.04	2000	
Al	27	2	He	29.902	29.902	1.81	21550	0.14	2000	
B	11	1	No Gas	15.798	15.798	3.37	58763	0.03	2000	
Al	27	1	No Gas	28.926	28.926	2.31	747552	0.00	2000	
Si	28	1	No Gas	23121.465	23121.465	1.78	265849983	0.01	2000	>LDR
Ag	107	1	No Gas	0.045	0.045	9.10	2504	0.00	2000	
Cd	111	1	No Gas	0.148	0.148	11.76	942	0.02	2000	
Sr	88	1	No Gas	246.590	246.590	0.28	15547322	0.00	2000	
Mo	95	1	No Gas	0.196	0.196	8.02	2557	0.01	2000	
Sn	118	1	No Gas	3.099	3.099	1.80	70785	0.00	2000	
Sb	121	1	No Gas	0.302	0.302	2.90	8953	0.00	2000	
Ba	137	1	No Gas	199.439	199.439	0.41	2112619	0.01	2000	
Tl	205	1	No Gas	0.012	0.012	33.77	3567	0.00	2000	
Tl	203	1	No Gas	0.016	0.016	33.05	1513	0.00	2000	
Pb	208	1	No Gas	0.086	0.086	6.37	13837	0.00	2000	
U	238	1	No Gas	0.615	0.615	2.53	67217	0.00	2000	
Ca	43	2	He	16123.578	16123.578	3.09	61456	26.24	200000	
Sb	121	2	He	0.292	0.292	2.18	3894	0.01	2000	
Ti	47	2	He	1.470	1.470	4.64	570	0.26	2000	
Cu	63	1	No Gas	2.227	2.227	1.16	56516	0.00	2000	
Ca	44	1	No Gas	15904.366	15904.366	1.86	14229844	0.11	200000	
Zn	66	1	No Gas	58.706	58.706	1.35	363637	0.02	2000	
Se	82	1	No Gas	0.383	0.383	80.34	560	0.07	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	1394317	1.31	1676119	83.19	70	120	
Ge	72	2	He	1137962	0.96	1163381	97.82	70	120	
Ge	72	1	No Gas	3860240	1.68	4078799	94.64	70	120	
In	115	1	No Gas	4916641	1.02	5144583	95.57	70	120	
Bi	209	1	No Gas	4849876	0.30	4944446	98.09	70	120	

Sample Report

Sample Table

Sample Name	HS24060694-01MS
Data File Name	140SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T16:56:57-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 213798
ISTD Ref FileName	116CALB.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	106.680	106.680	1.65	2224677	0.00	2000	
Be	9	1	No Gas	48.892	48.892	2.50	251739	0.02	2000	
V	51	2	He	48.943	48.943	1.46	475631	0.01	2000	
Cr	52	2	He	48.654	48.654	1.99	544933	0.01	2000	
Fe	56	2	He	5024.801	5024.801	1.20	52198906	0.01	200000	
Se	78	2	He	49.351	49.351	2.22	7666	0.64	2000	
As	75	2	He	49.353	49.353	2.35	85128	0.06	2000	
Ca	44	2	He	20761.088	20761.088	1.80	1315019	1.58	200000	
Na	23	2	He	180990.998	180990.998	1.81	310549649	0.06	200000	>LDR
Mg	24	2	He	13188.123	13188.123	1.83	13878134	0.10	200000	
K	39	2	He	5947.848	5947.848	2.16	7308952	0.08	200000	
Mn	55	2	He	238.452	238.452	1.51	2000898	0.01	2000	
Co	59	2	He	48.268	48.268	0.99	816986	0.01	2000	
Ni	60	2	He	50.235	50.235	0.94	218344	0.02	2000	
Cu	63	2	He	48.618	48.618	1.41	568136	0.01	2000	
Zn	66	2	He	57.661	57.661	2.59	124971	0.05	2000	
Al	27	2	He	107.557	107.557	1.92	71113	0.15	2000	
B	11	1	No Gas	447.064	447.064	1.46	1396772	0.03	2000	
Al	27	1	No Gas	105.530	105.530	2.28	2571165	0.00	2000	
Si	28	1	No Gas	23175.698	23175.698	1.95	267105849	0.01	2000	>LDR
Ag	107	1	No Gas	47.548	47.548	1.60	1510927	0.00	2000	
Cd	111	1	No Gas	48.228	48.228	1.41	305751	0.02	2000	
Sr	88	1	No Gas	327.595	327.595	1.94	20566071	0.00	2000	
Mo	95	1	No Gas	48.032	48.032	1.42	579760	0.01	2000	
Sn	118	1	No Gas	85.376	85.376	1.87	1778464	0.00	2000	
Sb	121	1	No Gas	49.815	49.815	2.41	1387901	0.00	2000	
Ba	137	1	No Gas	244.270	244.270	2.45	2576340	0.01	2000	
Tl	205	1	No Gas	41.752	41.752	2.35	2985330	0.00	2000	
Tl	203	1	No Gas	41.590	41.590	2.68	1211003	0.00	2000	
Pb	208	1	No Gas	48.029	48.029	1.24	4698955	0.00	2000	
U	238	1	No Gas	88.810	88.810	1.44	9111231	0.00	2000	
Ca	43	2	He	20503.621	20503.621	1.81	76175	26.92	200000	
Sb	121	2	He	49.645	49.645	1.60	606600	0.01	2000	
Ti	47	2	He	136.121	136.121	2.10	50007	0.27	2000	
Cu	63	1	No Gas	49.727	49.727	2.29	1123040	0.00	2000	
Ca	44	1	No Gas	20234.475	20234.475	1.86	18139493	0.11	200000	
Zn	66	1	No Gas	56.550	56.550	2.81	351169	0.02	2000	
Se	82	1	No Gas	48.703	48.703	1.08	18760	0.26	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	1389407	0.10	1676119	82.89	70	120	
Ge	72	2	He	1109429	0.30	1163381	95.36	70	120	
Ge	72	1	No Gas	3868868	0.88	4078799	94.85	70	120	
In	115	1	No Gas	4895995	0.43	5144583	95.17	70	120	
Bi	209	1	No Gas	4819697	0.34	4944446	97.48	70	120	

Sample Report

Sample Table

Sample Name	HS24060694-01MSD
Data File Name	141SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T16:59:25-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 213798
ISTD Ref FileName	116CALB.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	107.408	107.408	2.16	2264831	0.00	2000	
Be	9	1	No Gas	49.077	49.077	2.11	255558	0.02	2000	
V	51	2	He	49.027	49.027	1.95	487197	0.01	2000	
Cr	52	2	He	48.851	48.851	1.82	559430	0.01	2000	
Fe	56	2	He	5078.390	5078.390	0.94	53946448	0.01	200000	
Se	78	2	He	50.663	50.663	2.69	8043	0.63	2000	
As	75	2	He	49.619	49.619	2.10	87519	0.06	2000	
Ca	44	2	He	20945.361	20945.361	1.91	1356636	1.54	200000	
Na	23	2	He	180762.748	180762.748	1.68	317168955	0.06	200000	>LDR
Mg	24	2	He	13307.414	13307.414	1.78	14320306	0.09	200000	
K	39	2	He	5970.612	5970.612	1.77	7502182	0.08	200000	
Mn	55	2	He	240.242	240.242	0.79	2061454	0.01	2000	
Co	59	2	He	48.786	48.786	0.82	844387	0.01	2000	
Ni	60	2	He	50.523	50.523	0.94	224557	0.02	2000	
Cu	63	2	He	48.898	48.898	1.39	584305	0.01	2000	
Zn	66	2	He	58.399	58.399	2.55	129426	0.05	2000	
Al	27	2	He	109.732	109.732	2.79	74155	0.15	2000	
B	11	1	No Gas	449.441	449.441	1.59	1420119	0.03	2000	
Al	27	1	No Gas	106.533	106.533	1.34	2603719	0.00	2000	
Si	28	1	No Gas	23372.296	23372.296	0.96	270276196	0.01	2000	>LDR
Ag	107	1	No Gas	47.647	47.647	1.99	1528891	0.00	2000	
Cd	111	1	No Gas	48.432	48.432	2.24	310034	0.02	2000	
Sr	88	1	No Gas	330.254	330.254	2.03	20935986	0.00	2000	
Mo	95	1	No Gas	48.105	48.105	2.34	586309	0.01	2000	
Sn	118	1	No Gas	85.647	85.647	1.68	1801595	0.00	2000	
Sb	121	1	No Gas	50.433	50.433	1.15	1409941	0.00	2000	
Ba	137	1	No Gas	243.755	243.755	1.25	2596221	0.01	2000	
Tl	205	1	No Gas	42.492	42.492	2.57	3073187	0.00	2000	
Tl	203	1	No Gas	42.058	42.058	2.51	1238754	0.00	2000	
Pb	208	1	No Gas	48.288	48.288	2.32	4778825	0.00	2000	
U	238	1	No Gas	89.152	89.152	2.07	9252264	0.00	2000	
Ca	43	2	He	20914.338	20914.338	2.79	79453	26.32	200000	
Sb	121	2	He	49.766	49.766	1.33	621815	0.01	2000	
Ti	47	2	He	136.755	136.755	0.78	51375	0.27	2000	
Cu	63	1	No Gas	49.744	49.744	2.55	1127204	0.00	2000	
Ca	44	1	No Gas	20325.472	20325.472	1.62	18282326	0.11	200000	
Zn	66	1	No Gas	57.188	57.188	2.62	356306	0.02	2000	
Se	82	1	No Gas	49.004	49.004	1.54	18937	0.26	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	1405331	0.77	1676119	83.84	70	120	
Ge	72	2	He	1134485	0.52	1163381	97.52	70	120	
Ge	72	1	No Gas	3881738	0.63	4078799	95.17	70	120	
In	115	1	No Gas	4944187	0.79	5144583	96.10	70	120	
Bi	209	1	No Gas	4876363	1.64	4944446	98.62	70	120	

Sample Report

Sample Table

Sample Name	HS24060694-01PDS
Data File Name	142SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T17:01:53-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 213798
ISTD Ref FileName	116CALB.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	14.525	14.525	1.41	373909	0.00	2000	
Be	9	1	No Gas	92.602	92.602	2.08	484196	0.02	2000	
V	51	2	He	93.180	93.180	3.64	871269	0.01	2000	
Cr	52	2	He	92.457	92.457	3.14	989212	0.01	2000	
Fe	56	2	He	9521.782	9521.782	2.39	95500315	0.01	200000	
Se	78	2	He	93.833	93.833	0.76	13947	0.67	2000	
As	75	2	He	94.347	94.347	1.66	156861	0.06	2000	
Ca	44	2	He	24060.948	24060.948	2.94	1471542	1.64	200000	
Na	23	2	He	176156.061	176156.061	3.06	291886402	0.06	200000	
Mg	24	2	He	17225.310	17225.310	2.37	17503736	0.10	200000	
K	39	2	He	10317.894	10317.894	2.47	12158919	0.08	200000	
Mn	55	2	He	273.881	273.881	2.52	2219167	0.01	2000	
Co	59	2	He	92.979	92.979	1.50	1519013	0.01	2000	
Ni	60	2	He	93.410	93.410	1.51	391729	0.02	2000	
Cu	63	2	He	92.497	92.497	2.05	1043135	0.01	2000	
Zn	66	2	He	102.781	102.781	1.78	214436	0.05	2000	
Al	27	2	He	101.351	101.351	2.87	64802	0.16	2000	
B	11	1	No Gas	16.404	16.404	2.03	61410	0.03	2000	
Al	27	1	No Gas	99.747	99.747	1.91	2394994	0.00	2000	
Si	28	1	No Gas	22092.399	22092.399	2.77	250591936	0.01	2000	>LDR
Ag	107	1	No Gas	94.780	94.780	1.87	2983678	0.00	2000	
Cd	111	1	No Gas	92.977	92.977	1.34	584121	0.02	2000	
Sr	88	1	No Gas	232.845	232.845	2.23	14487509	0.00	2000	
Mo	95	1	No Gas	92.350	92.350	2.19	1104496	0.01	2000	
Sn	118	1	No Gas	0.398	0.398	6.37	14298	0.00	2000	
Sb	121	1	No Gas	95.812	95.812	1.89	2626741	0.00	2000	
Ba	137	1	No Gas	282.325	282.325	1.66	2950893	0.01	2000	
Tl	205	1	No Gas	93.035	93.035	2.36	6672509	0.00	2000	
Tl	203	1	No Gas	93.159	93.159	2.20	2720976	0.00	2000	
Pb	208	1	No Gas	93.215	93.215	1.49	9148190	0.00	2000	
U	238	1	No Gas	0.606	0.606	1.96	66107	0.00	2000	
Ca	43	2	He	23574.369	23574.369	4.21	84566	27.88	200000	
Sb	121	2	He	93.988	93.988	3.92	1108797	0.01	2000	
Ti	47	2	He	92.768	92.768	3.62	32916	0.28	2000	
Cu	63	1	No Gas	94.499	94.499	2.99	2094425	0.00	2000	
Ca	44	1	No Gas	24169.245	24169.245	2.95	21318319	0.11	200000	
Zn	66	1	No Gas	101.146	101.146	2.35	616115	0.02	2000	
Se	82	1	No Gas	93.147	93.147	4.46	34935	0.27	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	1411394	0.51	1676119	84.21	70	120	
Ge	72	2	He	1071338	0.07	1163381	92.09	70	120	
Ge	72	1	No Gas	3807279	0.12	4078799	93.34	70	120	
In	115	1	No Gas	4851630	0.30	5144583	94.31	70	120	
Bi	209	1	No Gas	4837639	1.68	4944446	97.84	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	144_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T17:06:45-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	116CALB.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	97.552	2.409	1954299	3.33	100	97.6	90	110	
Be	9	1	No Gas	97.275	1.527	479417	2.51	100	97.3	90	110	
V	51	2	He	96.083	1.787	872205	2.10	100	96.1	90	110	
Cr	52	2	He	96.516	1.709	1002089	1.73	100	96.5	90	110	
Fe	56	2	He	9787.536	1.586	95320909	2.50	10000	97.9	90	110	
Se	78	2	He	97.324	0.354	14041	1.66	100	97.3	90	110	
As	75	2	He	96.526	0.334	155815	1.26	100	96.5	90	110	
Ca	44	2	He	9436.495	0.476	560879	1.59	10000	94.4	90	110	
Na	23	2	He	9703.901	1.691	15886004	2.79	10000	97.0	90	110	
Mg	24	2	He	9724.745	1.784	9596472	2.93	10000	97.2	90	110	
K	39	2	He	9702.682	0.797	11108881	1.80	10000	97.0	90	110	
Mn	55	2	He	95.820	1.253	754331	1.73	100	95.8	90	110	
Co	59	2	He	98.328	1.418	1559730	2.04	100	98.3	90	110	
Ni	60	2	He	98.209	0.927	399861	1.33	100	98.2	90	110	
Cu	63	2	He	97.409	0.666	1066673	2.05	100	97.4	90	110	
Zn	66	2	He	98.450	1.176	199495	2.56	100	98.5	90	110	
Al	27	2	He	97.872	0.801	60821	2.26	100	97.9	90	110	
B	11	1	No Gas	491.582	0.617	1469668	1.49	500	98.3	90	110	
Al	27	1	No Gas	95.008	2.391	2184514	2.32	100	95.0	90	110	
Si	28	1	No Gas	480.285	2.398	5549526	2.20	5000	9.6	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	97.527	2.271	2980253	1.67	100	97.5	90	110	
Cd	111	1	No Gas	96.019	1.816	585588	1.13	100	96.0	90	110	
Sr	88	1	No Gas	96.155	2.403	5809309	1.73	100	96.2	90	110	
Mo	95	1	No Gas	95.259	1.771	1105968	1.27	100	95.3	90	110	
Sn	118	1	No Gas	97.674	2.273	1956483	1.68	100	97.7	90	110	
Sb	121	1	No Gas	99.447	1.376	2607493	1.32	100	99.4	90	110	
Ba	137	1	No Gas	96.245	1.887	976991	1.34	100	96.2	90	110	
Tl	205	1	No Gas	96.511	1.564	6932289	1.88	100	96.5	90	110	
Tl	203	1	No Gas	96.436	1.376	2820946	1.66	100	96.4	90	110	
Pb	208	1	No Gas	96.434	1.288	9477230	1.55	100	96.4	90	110	
U	238	1	No Gas	96.828	2.417	9984069	2.68	100	96.8	90	110	
Ca	43	2	He	9496.983	0.899	33100	0.78	10000	95.0	90	110	
Sb	121	2	He	96.741	1.565	1108268	2.77	100	96.7	90	110	
Ti	47	2	He	97.289	1.854	33517	2.35	100	97.3	90	110	
Cu	63	1	No Gas	98.035	1.885	2077838	1.87	100	98.0	90	110	
Se	82	1	No Gas	93.104	4.526	33398	4.60	100	93.1	90	110	
Zr	90	1	No Gas	93.723	2.274	3537909	1.61	100	93.7	90	110	
Zr	90	2	He	94.723	1.871	1404681	2.67	100	94.7	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	1330344	1.20	1676119	79.37	70	120	
Ge	72	2	He	1040242	1.55	1163381	89.42	70	120	
Ge	72	1	No Gas	3641278	0.28	4078799	89.27	70	120	
In	115	1	No Gas	4710168	0.70	5144583	91.56	70	120	
Bi	209	1	No Gas	4843888	0.36	4944446	97.97	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	145_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T17:09:09-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	116CALB.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	0.068	43.2	77946	0.7	0.5	
Be	9	1	No Gas	0.017	39.1	280	12.5	0.5	
V	51	2	He	-0.048	-16.6	3013	2.5	2.5	
Cr	52	2	He	-0.466	-10.9	6975	7.9	2.5	
Fe	56	2	He	0.844	9.0	27093	2.1	100	
Se	78	2	He	0.160	86.7	163	12.0	2	
As	75	2	He	0.004	228.1	322	4.7	2.5	
Ca	44	2	He	4.017	32.5	1083	6.9	100	
Na	23	2	He	-56.582	-1.6	201152	0.7	100	
Mg	24	2	He	0.126	13.0	943	2.4	100	
K	39	2	He	-1.880	-31.4	111832	1.3	100	
Mn	55	2	He	0.183	4.4	2234	3.2	2.5	
Co	59	2	He	0.002	485.2	763	18.6	2.5	
Ni	60	2	He	0.076	19.7	703	8.7	2.5	
Cu	63	2	He	0.049	9.9	1233	4.9	2	
Zn	66	2	He	0.680	11.0	2264	7.5	2.5	
Al	27	2	He	-0.028	-6146.2	1622	65.9	5	
B	11	1	No Gas	4.355	7.2	23403	4.0	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	-0.928	-4.1	37902	2.1	5	
Si	28	1	No Gas	1.241	3.4	368584	0.3	10	
Ag	107	1	No Gas	-0.014	-5.3	613	5.0	2.5	
Cd	111	1	No Gas	-0.002	-128.7	-12	-148.0	1	
Sr	88	1	No Gas	-0.028	-2.0	1483	3.5	2.5	
Mo	95	1	No Gas	0.059	22.7	883	17.0	2.5	
Sn	118	1	No Gas	0.068	109.9	7476	20.3	5	
Sb	121	1	No Gas	0.197	15.5	5831	13.7	2.5	
Ba	137	1	No Gas	0.013	181.9	860	28.6	2.5	
Tl	205	1	No Gas	0.015	36.9	3814	10.2	1	
Tl	203	1	No Gas	0.016	25.1	1533	7.4	1	
Pb	208	1	No Gas	0.008	21.1	6278	2.5	2.5	
U	238	1	No Gas	0.007	24.1	4591	3.6	2.5	
Ca	43	2	He	9.466	118.8	73	55.1	100	
Sb	121	2	He	0.160	12.2	2094	11.5	2.5	
Ti	47	2	He	0.013	212.0	20	50.0	2.5	
Cu	63	1	No Gas	-0.151	-7.2	3140	7.3	2.5	
Se	82	1	No Gas	-0.263	-41.8	307	13.2	2	
Zr	90	1	No Gas	0.182	19.3	8253	15.3	2.5	
Zr	90	2	He	0.113	5.2	3350	2.4	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	1409852	0.65	1676119	84.11	70	120	
Ge	72	2	He	1062497	0.69	1163381	91.33	70	120	
Ge	72	1	No Gas	3726355	0.38	4078799	91.36	70	120	

Continuing Calibration Blank (CCB) Report

In	115	1	No Gas	4831228	1.15	5144583	93.91	70	120	
Bi	209	1	No Gas	4922551	0.50	4944446	99.56	70	120	

Sample Report

Sample Table

Sample Name	HS24060694-02
Data File Name	147SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T17:13:57-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 213798
ISTD Ref FileName	116CALB.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	102.160	102.160	1.95	1939922	0.01	2000	
Be	9	1	No Gas	0.016	0.016	50.60	250	0.01	2000	
V	51	2	He	0.288	0.288	16.98	5725	0.01	2000	
Cr	52	2	He	8.127	8.127	3.40	90851	0.01	2000	
Fe	56	2	He	499.951	499.951	2.38	4672218	0.01	200000	
Se	78	2	He	0.133	0.133	70.72	149	0.09	2000	
As	75	2	He	0.437	0.437	4.95	969	0.05	2000	
Ca	44	2	He	65463.548	65463.548	2.41	3715612	1.76	200000	
Na	23	2	He	241287.671	241287.671	2.58	371045808	0.07	200000	>LDR
Mg	24	2	He	35345.290	35345.290	2.76	33341963	0.11	200000	
K	39	2	He	33685.327	33685.327	1.97	36611359	0.09	200000	
Mn	55	2	He	93.184	93.184	2.36	701484	0.01	2000	
Co	59	2	He	0.984	0.984	0.54	15599	0.01	2000	
Ni	60	2	He	1.361	1.361	3.60	5655	0.02	2000	
Cu	63	2	He	0.588	0.588	3.62	6802	0.01	2000	
Zn	66	2	He	13.564	13.564	4.01	26967	0.05	2000	
Al	27	2	He	19.193	19.193	2.06	12639	0.15	2000	
B	11	1	No Gas	64.338	64.338	2.12	190197	0.03	2000	
Al	27	1	No Gas	18.674	18.674	2.95	450067	0.00	2000	
Si	28	1	No Gas	14350.087	14350.087	2.86	147362281	0.01	2000	>LDR
Ag	107	1	No Gas	0.023	0.023	5.23	1627	0.00	2000	
Cd	111	1	No Gas	0.155	0.155	3.78	888	0.02	2000	
Sr	88	1	No Gas	2527.982	2527.982	2.49	142893891	0.00	2000	>LDR
Mo	95	1	No Gas	0.138	0.138	19.11	1657	0.01	2000	
Sn	118	1	No Gas	0.982	0.982	1.82	23918	0.00	2000	
Sb	121	1	No Gas	0.236	0.236	4.64	6362	0.00	2000	
Ba	137	1	No Gas	731.703	731.703	2.19	6948378	0.01	2000	
Tl	205	1	No Gas	0.056	0.056	39.12	6202	0.00	2000	
Tl	203	1	No Gas	0.062	0.062	32.20	2630	0.00	2000	
Pb	208	1	No Gas	0.068	0.068	8.24	11039	0.00	2000	
U	238	1	No Gas	0.107	0.107	4.91	13648	0.00	2000	
Ca	43	2	He	66671.451	66671.451	2.31	222001	30.03	200000	
Sb	121	2	He	0.209	0.209	10.52	2494	0.01	2000	
Ti	47	2	He	0.968	0.968	9.67	333	0.29	2000	
Cu	63	1	No Gas	2.007	2.007	3.08	46034	0.00	2000	
Ca	44	1	No Gas	59987.288	59987.288	2.35	47832049	0.13	200000	
Zn	66	1	No Gas	13.296	13.296	0.07	75306	0.02	2000	
Se	82	1	No Gas	0.761	0.761	23.13	627	0.12	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	1263249	0.18	1676119	75.37	70	120	
Ge	72	2	He	994630	1.27	1163381	85.49	70	120	
Ge	72	1	No Gas	3444481	0.64	4078799	84.45	70	120	
In	115	1	No Gas	4408852	0.30	5144583	85.70	70	120	
Bi	209	1	No Gas	4458389	0.91	4944446	90.17	70	120	

Sample Report

Sample Table

Sample Name	HS24060694-03
Data File Name	148SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T17:16:27-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 213798
ISTD Ref FileName	116CALB.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	212.313	212.313	2.26	4216094	0.01	2000	
Be	9	1	No Gas	0.017	0.017	26.88	267	0.01	2000	
V	51	2	He	0.854	0.854	6.05	11178	0.01	2000	
Cr	52	2	He	3.413	3.413	1.54	46960	0.01	2000	
Fe	56	2	He	2426.338	2426.338	1.49	23805949	0.01	200000	
Se	78	2	He	0.100	0.100	239.02	152	0.07	2000	
As	75	2	He	1.407	1.407	7.22	2594	0.05	2000	
Ca	44	2	He	28478.669	28478.669	1.32	1702783	1.67	200000	
Na	23	2	He	195245.864	195245.864	0.35	316231249	0.06	200000	>LDR
Mg	24	2	He	12173.154	12173.154	1.71	12094694	0.10	200000	
K	39	2	He	70274.714	70274.714	1.24	80310367	0.09	200000	
Mn	55	2	He	179.356	179.356	1.30	1420966	0.01	2000	
Co	59	2	He	0.157	0.157	1.16	3224	0.00	2000	
Ni	60	2	He	0.642	0.642	5.74	3010	0.02	2000	
Cu	63	2	He	0.567	0.567	2.92	6925	0.01	2000	
Zn	66	2	He	4.759	4.759	2.36	10518	0.05	2000	
Al	27	2	He	13.908	13.908	7.66	10097	0.14	2000	
B	11	1	No Gas	186.762	186.762	2.62	570538	0.03	2000	
Al	27	1	No Gas	12.827	12.827	1.57	347981	0.00	2000	
Si	28	1	No Gas	18620.227	18620.227	2.25	203816950	0.01	2000	>LDR
Ag	107	1	No Gas	0.008	0.008	47.88	1263	0.00	2000	
Cd	111	1	No Gas	0.053	0.053	6.50	324	0.02	2000	
Sr	88	1	No Gas	2038.998	2038.998	2.45	122337702	0.00	2000	>LDR
Mo	95	1	No Gas	0.621	0.621	3.51	7335	0.01	2000	
Sn	118	1	No Gas	0.418	0.418	10.52	14194	0.00	2000	
Sb	121	1	No Gas	0.223	0.223	6.81	6442	0.00	2000	
Ba	137	1	No Gas	258.906	258.906	2.52	2610166	0.01	2000	
Tl	205	1	No Gas	0.004	0.004	124.55	2870	0.00	2000	
Tl	203	1	No Gas	0.009	0.009	29.74	1260	0.00	2000	
Pb	208	1	No Gas	0.041	0.041	6.89	9128	0.00	2000	
U	238	1	No Gas	0.056	0.056	2.12	9254	0.00	2000	
Ca	43	2	He	29661.881	29661.881	2.15	104034	28.51	200000	
Sb	121	2	He	0.221	0.221	3.59	2764	0.01	2000	
Ti	47	2	He	1.500	1.500	24.61	537	0.28	2000	
Cu	63	1	No Gas	1.708	1.708	0.35	42717	0.00	2000	
Ca	44	1	No Gas	24189.123	24189.123	2.49	20583325	0.12	200000	
Zn	66	1	No Gas	4.661	4.661	1.82	29773	0.02	2000	
Se	82	1	No Gas	0.319	0.319	46.70	510	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	1346141	1.91	1676119	80.31	70	120	
Ge	72	2	He	1047315	1.85	1163381	90.02	70	120	
Ge	72	1	No Gas	3673813	1.52	4078799	90.07	70	120	
In	115	1	No Gas	4680914	1.76	5144583	90.99	70	120	
Bi	209	1	No Gas	4709858	1.59	4944446	95.26	70	120	

Sample Report

Sample Table

Sample Name	HS24060694-06
Data File Name	149SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T17:18:55-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 213798
ISTD Ref FileName	116CALB.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	1.846	1.846	4.38	108323	0.00	2000	
Be	9	1	No Gas	0.336	0.336	10.48	1845	0.02	2000	
V	51	2	He	3.975	3.975	1.75	37990	0.01	2000	
Cr	52	2	He	1.178	1.178	2.96	22896	0.01	2000	
Fe	56	2	He	1233.238	1233.238	0.95	11613499	0.01	200000	
Se	78	2	He	0.581	0.581	36.12	213	0.27	2000	
As	75	2	He	0.776	0.776	5.76	1506	0.05	2000	
Ca	44	2	He	4487.952	4487.952	1.66	258047	1.74	200000	
Na	23	2	He	14284.579	14284.579	1.04	22448140	0.06	200000	
Mg	24	2	He	1572.609	1572.609	1.21	1499154	0.10	200000	
K	39	2	He	1894.929	1894.929	0.91	2181938	0.09	200000	
Mn	55	2	He	107.137	107.137	1.12	814477	0.01	2000	
Co	59	2	He	4.296	4.296	0.80	66467	0.01	2000	
Ni	60	2	He	4.342	4.342	2.51	17421	0.02	2000	
Cu	63	2	He	5.211	5.211	1.63	55723	0.01	2000	
Zn	66	2	He	27.553	27.553	1.23	54502	0.05	2000	
Al	27	2	He	548.585	548.585	0.80	322058	0.17	2000	
B	11	1	No Gas	15.262	15.262	2.25	54734	0.03	2000	
Al	27	1	No Gas	558.242	558.242	1.76	12004065	0.00	2000	
Si	28	1	No Gas	3290.686	3290.686	1.85	34417655	0.01	2000	>LDR
Ag	107	1	No Gas	0.005	0.005	90.04	1137	0.00	2000	
Cd	111	1	No Gas	1.268	1.268	1.62	7418	0.02	2000	
Sr	88	1	No Gas	50.166	50.166	2.02	2907832	0.00	2000	
Mo	95	1	No Gas	0.131	0.131	69.28	1622	0.01	2000	
Sn	118	1	No Gas	0.261	0.261	2.01	10698	0.00	2000	
Sb	121	1	No Gas	0.182	0.182	6.01	5078	0.00	2000	
Ba	137	1	No Gas	76.878	76.878	1.65	748475	0.01	2000	
Tl	205	1	No Gas	0.010	0.010	33.97	3244	0.00	2000	
Tl	203	1	No Gas	0.016	0.016	37.96	1430	0.00	2000	
Pb	208	1	No Gas	2.284	2.284	0.73	218933	0.00	2000	
U	238	1	No Gas	0.693	0.693	2.34	71628	0.00	2000	
Ca	43	2	He	4531.594	4531.594	2.27	15275	29.67	200000	
Sb	121	2	He	0.193	0.193	12.87	2340	0.01	2000	
Ti	47	2	He	2.078	2.078	24.40	707	0.29	2000	
Cu	63	1	No Gas	5.052	5.052	1.67	108056	0.00	2000	
Ca	44	1	No Gas	4495.273	4495.273	1.41	3644998	0.12	200000	
Zn	66	1	No Gas	26.491	26.491	1.76	149321	0.02	2000	
Se	82	1	No Gas	0.043	0.043	189.12	390	0.01	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	1336264	0.55	1676119	79.72	70	120	
Ge	72	2	He	1004552	1.09	1163381	86.35	70	120	
Ge	72	1	No Gas	3481724	0.45	4078799	85.36	70	120	

Sample Report

In	115	1	No Gas	4516328	0.04	5144583	87.79	70	120	
Bi	209	1	No Gas	4616546	0.17	4944446	93.37	70	120	

Sample Report

Sample Table

Sample Name	HS24060694-08
Data File Name	150SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T17:21:19-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 213798
ISTD Ref FileName	116CALB.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	16.260	16.260	0.55	385784	0.00	2000	
Be	9	1	No Gas	0.045	0.045	16.35	403	0.01	2000	
V	51	2	He	0.582	0.582	4.18	9552	0.01	2000	
Cr	52	2	He	1.205	1.205	11.09	26486	0.00	2000	
Fe	56	2	He	13433.325	13433.325	4.39	144457658	0.01	200000	
Se	78	2	He	-0.191	-0.191	-57.37	121	-0.16	2000	
As	75	2	He	10.149	10.149	5.19	18397	0.06	2000	
Ca	44	2	He	8434.390	8434.390	3.74	553712	1.52	200000	
Na	23	2	He	23038.179	23038.179	2.15	41210708	0.06	200000	
Mg	24	2	He	4962.712	4962.712	2.87	5408162	0.09	200000	
K	39	2	He	1125.327	1125.327	3.45	1531805	0.07	200000	
Mn	55	2	He	397.279	397.279	3.66	3451286	0.01	2000	
Co	59	2	He	5.541	5.541	3.47	97809	0.01	2000	
Ni	60	2	He	2.359	2.359	4.07	11015	0.02	2000	
Cu	63	2	He	1.640	1.640	4.24	20566	0.01	2000	
Zn	66	2	He	13.990	13.990	1.28	32105	0.04	2000	
Al	27	2	He	28.462	28.462	6.61	20789	0.14	2000	
B	11	1	No Gas	20.385	20.385	0.99	69692	0.03	2000	
Al	27	1	No Gas	27.874	27.874	3.92	697934	0.00	2000	
Si	28	1	No Gas	22795.921	22795.921	1.06	253410516	0.01	2000	>LDR
Ag	107	1	No Gas	0.029	0.029	17.42	2024	0.00	2000	
Cd	111	1	No Gas	0.117	0.117	3.87	754	0.02	2000	
Sr	88	1	No Gas	149.556	149.556	1.70	9494342	0.00	2000	
Mo	95	1	No Gas	0.944	0.944	3.26	11715	0.01	2000	
Sn	118	1	No Gas	0.431	0.431	3.43	15276	0.00	2000	
Sb	121	1	No Gas	0.182	0.182	6.13	5418	0.00	2000	
Ba	137	1	No Gas	163.264	163.264	0.50	1742353	0.01	2000	
Tl	205	1	No Gas	0.007	0.007	39.01	3367	0.00	2000	
Tl	203	1	No Gas	0.010	0.010	39.02	1403	0.00	2000	
Pb	208	1	No Gas	0.153	0.153	4.25	21501	0.00	2000	
U	238	1	No Gas	0.029	0.029	13.86	7129	0.00	2000	
Ca	43	2	He	8526.125	8526.125	4.92	32823	25.98	200000	
Sb	121	2	He	0.168	0.168	11.03	2354	0.01	2000	
Ti	47	2	He	2.631	2.631	15.57	1017	0.26	2000	
Cu	63	1	No Gas	1.663	1.663	1.77	42426	0.00	2000	
Ca	44	1	No Gas	8609.158	8609.158	1.14	7458207	0.12	200000	
Zn	66	1	No Gas	13.598	13.598	0.86	83383	0.02	2000	
Se	82	1	No Gas	-0.414	-0.414	-13.44	253	-0.16	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	1329856	5.19	1676119	79.34	70	120	
Ge	72	2	He	1148857	0.38	1163381	98.75	70	120	
Ge	72	1	No Gas	3733597	8.43	4078799	91.54	70	120	

Sample Report

In	115	1	No Gas	4954405	8.96	5144583	96.30	70	120	
Bi	209	1	No Gas	5122602	9.04	4944446	103.60	70	120	

Sample Report

Sample Table

Sample Name	LCS-213798
Data File Name	155SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T17:33:55-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 213798
ISTD Ref FileName	116CALB.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	28.706	28.706	2.34	871053	0.00	2000	
Be	9	1	No Gas	39.824	39.824	1.72	273241	0.01	2000	
V	51	2	He	45.468	45.468	1.07	482408	0.01	2000	
Cr	52	2	He	45.632	45.632	1.11	558492	0.01	2000	
Fe	56	2	He	4748.628	4748.628	0.94	53826288	0.01	200000	
Se	78	2	He	46.957	46.957	1.45	7966	0.59	2000	
As	75	2	He	46.047	46.047	0.82	86684	0.05	2000	
Ca	44	2	He	4615.138	4615.138	0.65	319686	1.44	200000	
Na	23	2	He	4825.776	4825.776	1.78	9361539	0.05	200000	
Mg	24	2	He	4714.874	4714.874	1.72	5414444	0.09	200000	
K	39	2	He	4698.212	4698.212	1.86	6326620	0.07	200000	
Mn	55	2	He	46.176	46.176	1.28	423490	0.01	2000	
Co	59	2	He	46.486	46.486	0.91	858538	0.01	2000	
Ni	60	2	He	47.058	47.058	2.26	223210	0.02	2000	
Cu	63	2	He	46.458	46.458	1.23	592399	0.01	2000	
Zn	66	2	He	47.400	47.400	1.53	112266	0.04	2000	
Al	27	2	He	64.303	64.303	1.57	47139	0.14	2000	
B	11	1	No Gas	292.657	292.657	1.38	1222622	0.02	2000	
Al	27	1	No Gas	64.566	64.566	1.89	1758851	0.00	2000	
Si	28	1	No Gas	374.589	374.589	1.93	5154045	0.01	2000	
Ag	107	1	No Gas	47.123	47.123	2.53	1684456	0.00	2000	
Cd	111	1	No Gas	45.549	45.549	1.55	324818	0.01	2000	
Sr	88	1	No Gas	65.255	65.255	2.35	4611268	0.00	2000	
Mo	95	1	No Gas	44.874	44.874	2.07	609302	0.01	2000	
Sn	118	1	No Gas	65.384	65.384	2.19	1533771	0.00	2000	
Sb	121	1	No Gas	47.266	47.266	1.70	1450566	0.00	2000	
Ba	137	1	No Gas	45.579	45.579	2.43	541465	0.01	2000	
Tl	205	1	No Gas	44.520	44.520	1.46	3701567	0.00	2000	
Tl	203	1	No Gas	44.038	44.038	1.65	1491099	0.00	2000	
Pb	208	1	No Gas	46.509	46.509	1.43	5291608	0.00	2000	
U	238	1	No Gas	30.684	30.684	1.72	3663554	0.00	2000	
Ca	43	2	He	4644.901	4644.901	3.89	18866	24.62	200000	
Sb	121	2	He	46.783	46.783	0.82	623752	0.01	2000	
Ti	47	2	He	80.164	80.164	0.74	32138	0.25	2000	
Cu	63	1	No Gas	47.170	47.170	1.14	1173648	0.00	2000	
Ca	44	1	No Gas	4747.857	4747.857	1.97	4709726	0.10	200000	
Zn	66	1	No Gas	46.517	46.517	2.17	318691	0.01	2000	
Se	82	1	No Gas	46.152	46.152	4.75	19608	0.24	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	1850979	1.18	1676119	110.43	70	120	
Ge	72	2	He	1210438	1.36	1163381	104.04	70	120	
Ge	72	1	No Gas	4260550	0.93	4078799	104.46	70	120	

Sample Report

In	115	1	No Gas	5507053	0.40	5144583	107.05	70	120	
Bi	209	1	No Gas	5604463	0.22	4944446	113.35	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	157_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T17:38:43-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	116CALB.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	0.454	10.5	99199	0.9	0.5	
Be	9	1	No Gas	0.005	84.8	252	9.8	0.5	
V	51	2	He	-0.211	-3.6	1720	4.5	2.5	
Cr	52	2	He	-0.494	-5.4	7596	3.2	2.5	
Fe	56	2	He	0.809	6.2	30417	2.9	100	
Se	78	2	He	-0.039	-95.2	153	3.3	2	
As	75	2	He	-0.030	-35.3	303	6.6	2.5	
Ca	44	2	He	2.475	80.9	1127	13.4	100	
Na	23	2	He	5.376	36.8	344386	1.7	100	
Mg	24	2	He	0.305	45.9	1277	11.8	100	
K	39	2	He	-10.780	-17.3	115430	1.8	100	
Mn	55	2	He	0.161	4.9	2340	3.7	2.5	
Co	59	2	He	0.002	310.0	867	10.9	2.5	
Ni	60	2	He	0.028	73.1	573	18.2	2.5	
Cu	63	2	He	0.043	15.6	1337	5.5	2	
Zn	66	2	He	0.679	15.5	2570	9.7	2.5	
Al	27	2	He	-0.892	-13.5	1240	6.5	5	
B	11	1	No Gas	3.183	13.6	22793	7.7	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	-0.977	-7.0	41549	4.3	5	
Si	28	1	No Gas	-1.910	-9.3	376744	0.3	10	
Ag	107	1	No Gas	-0.019	-13.5	527	17.1	2.5	
Cd	111	1	No Gas	-0.002	-145.3	-12	-170.1	1	
Sr	88	1	No Gas	-0.026	-3.6	1860	3.8	2.5	
Mo	95	1	No Gas	0.054	16.1	930	12.7	2.5	
Sn	118	1	No Gas	0.016	92.8	7255	4.9	5	
Sb	121	1	No Gas	0.189	16.8	6342	15.2	2.5	
Ba	137	1	No Gas	0.022	82.1	1070	19.2	2.5	
Tl	205	1	No Gas	0.013	49.0	4217	13.1	1	
Tl	203	1	No Gas	0.017	12.4	1797	4.3	1	
Pb	208	1	No Gas	0.002	77.2	6511	3.0	2.5	
U	238	1	No Gas	0.006	47.4	5104	7.0	2.5	
Ca	43	2	He	8.671	103.4	80	45.1	100	
Sb	121	2	He	0.146	2.5	2184	3.2	2.5	
Ti	47	2	He	-0.035	-41.6	3	173.2	2.5	
Cu	63	1	No Gas	-0.166	-4.2	3174	5.1	2.5	
Se	82	1	No Gas	-0.270	-45.5	343	14.9	2	
Zr	90	1	No Gas	0.178	22.5	9180	19.2	2.5	
Zr	90	2	He	0.119	9.3	3914	6.0	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	1629525	0.85	1676119	97.22	70	120	
Ge	72	2	He	1208116	1.09	1163381	103.85	70	120	
Ge	72	1	No Gas	4207683	0.27	4078799	103.16	70	120	

Continuing Calibration Blank (CCB) Report

In	115	1	No Gas	5458599	0.26	5144583	106.10	70	120	
Bi	209	1	No Gas	5634105	0.33	4944446	113.95	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	160_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T17:52:05-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	116CALB.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	94.727	2.471	2053639	2.50	100	94.7	90	110	
Be	9	1	No Gas	100.967	2.094	537938	2.25	100	101.0	90	110	
V	51	2	He	98.163	1.264	988621	1.89	100	98.2	90	110	
Cr	52	2	He	98.420	1.459	1133569	1.93	100	98.4	90	110	
Fe	56	2	He	9429.504	1.052	101884568	1.58	10000	94.3	90	110	
Se	78	2	He	100.034	0.262	16008	1.40	100	100.0	90	110	
As	75	2	He	97.384	2.096	174439	3.18	100	97.4	90	110	
Ca	44	2	He	9003.431	0.772	593793	1.76	10000	90.0	90	110	
Na	23	2	He	9134.974	1.429	16609433	1.95	10000	91.3	90	110	
Mg	24	2	He	9246.090	1.872	10122249	2.31	10000	92.5	90	110	
K	39	2	He	9209.335	1.178	11704568	1.61	10000	92.1	90	110	
Mn	55	2	He	97.305	1.013	849924	1.77	100	97.3	90	110	
Co	59	2	He	100.127	0.864	1762218	1.79	100	100.1	90	110	
Ni	60	2	He	99.279	0.536	448484	1.11	100	99.3	90	110	
Cu	63	2	He	99.725	1.027	1211579	1.99	100	99.7	90	110	
Zn	66	2	He	99.110	1.845	222813	2.76	100	99.1	90	110	
Al	27	2	He	95.537	1.678	65914	2.59	100	95.5	90	110	
B	11	1	No Gas	464.198	1.256	1500924	1.43	500	92.8	90	110	
Al	27	1	No Gas	98.879	1.732	2468444	1.76	100	98.9	90	110	
Si	28	1	No Gas	481.488	1.886	6045715	1.78	5000	9.6	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	100.494	2.677	3367670	1.56	100	100.5	90	110	
Cd	111	1	No Gas	101.219	2.662	676956	1.64	100	101.2	90	110	
Sr	88	1	No Gas	99.870	2.932	6616722	1.92	100	99.9	90	110	
Mo	95	1	No Gas	97.098	2.193	1236270	1.14	100	97.1	90	110	
Sn	118	1	No Gas	102.844	2.160	2258925	1.32	100	102.8	90	110	
Sb	121	1	No Gas	109.601	1.424	3123276	1.49	100	109.6	90	110	
Ba	137	1	No Gas	102.548	2.289	1141538	1.19	100	102.5	90	110	
Tl	205	1	No Gas	106.156	1.934	8452439	1.09	100	106.2	90	110	
Tl	203	1	No Gas	106.435	1.492	3451367	0.66	100	106.4	90	110	
Pb	208	1	No Gas	102.627	1.415	11180800	0.76	100	102.6	90	110	
U	238	1	No Gas	96.692	1.190	11052592	0.43	100	96.7	90	110	
Ca	43	2	He	9016.196	1.585	34867	1.39	10000	90.2	90	110	
Sb	121	2	He	103.951	2.529	1321132	2.94	100	104.0	90	110	
Ti	47	2	He	95.061	1.926	36341	3.02	100	95.1	90	110	
Cu	63	1	No Gas	102.840	1.471	2368685	1.61	100	102.8	90	110	
Se	82	1	No Gas	103.627	3.459	40354	3.61	100	103.6	90	110	
Zr	90	1	No Gas	51.966	3.069	2151762	1.98	100	52.0	90	110	CCV Main CR1-2 Failed
Zr	90	2	He	51.682	2.189	851150	2.82	100	51.7	90	110	CCV Main CR1-2 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	1438259	0.29	1676119	85.81	70	120	
Ge	72	2	He	1154127	1.15	1163381	99.20	70	120	
Ge	72	1	No Gas	3957525	0.30	4078799	97.03	70	120	
In	115	1	No Gas	5165893	1.10	5144583	100.41	70	120	
Bi	209	1	No Gas	5370438	0.86	4944446	108.62	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	161_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T17:54:29-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	116CALB.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	95.610	1.029	2041240	1.54	100	95.6	90	110	
Be	9	1	No Gas	102.485	1.168	537906	1.73	100	102.5	90	110	
V	51	2	He	100.231	2.105	1008073	2.45	100	100.2	90	110	
Cr	52	2	He	99.401	1.781	1143273	2.02	100	99.4	90	110	
Fe	56	2	He	9487.578	1.447	102378175	1.53	10000	94.9	90	110	
Se	78	2	He	100.827	1.131	16114	1.83	100	100.8	90	110	
As	75	2	He	99.027	1.910	177131	2.46	100	99.0	90	110	
Ca	44	2	He	9248.044	2.846	609103	3.06	10000	92.5	90	110	
Na	23	2	He	9343.703	2.234	16957993	1.67	10000	93.4	90	110	
Mg	24	2	He	9480.477	2.534	10365035	2.52	10000	94.8	90	110	
K	39	2	He	9539.387	2.440	12103944	2.51	10000	95.4	90	110	
Mn	55	2	He	98.323	1.005	857667	1.13	100	98.3	90	110	
Co	59	2	He	101.307	1.434	1780573	1.38	100	101.3	90	110	
Ni	60	2	He	100.589	1.764	453808	1.75	100	100.6	90	110	
Cu	63	2	He	101.821	2.086	1235372	2.30	100	101.8	90	110	
Zn	66	2	He	101.613	0.835	228098	1.08	100	101.6	90	110	
Al	27	2	He	98.933	3.430	68105	3.72	100	98.9	90	110	
B	11	1	No Gas	474.009	0.830	1509610	1.12	500	94.8	90	110	
Al	27	1	No Gas	98.338	1.682	2466195	1.61	100	98.3	90	110	
Si	28	1	No Gas	477.698	2.043	6027787	1.88	5000	9.6	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	102.702	1.747	3408189	1.15	100	102.7	90	110	
Cd	111	1	No Gas	103.567	1.708	685919	1.15	100	103.6	90	110	
Sr	88	1	No Gas	101.126	1.525	6634884	0.97	100	101.1	90	110	
Mo	95	1	No Gas	99.077	1.327	1249165	0.76	100	99.1	90	110	
Sn	118	1	No Gas	103.712	2.198	2255601	1.61	100	103.7	90	110	
Sb	121	1	No Gas	108.511	1.834	3105971	1.82	100	108.5	90	110	
Ba	137	1	No Gas	102.938	2.375	1134672	1.78	100	102.9	90	110	
Tl	205	1	No Gas	107.679	0.207	8556904	1.28	100	107.7	90	110	
Tl	203	1	No Gas	106.389	0.368	3443058	1.45	100	106.4	90	110	
Pb	208	1	No Gas	103.679	0.723	11273002	1.69	100	103.7	90	110	
U	238	1	No Gas	97.779	1.169	11155154	2.18	100	97.8	90	110	
Ca	43	2	He	9412.011	3.365	36351	3.41	10000	94.1	90	110	
Sb	121	2	He	106.238	1.856	1348364	1.74	100	106.2	90	110	
Ti	47	2	He	99.646	1.382	38039	1.63	100	99.6	90	110	
Cu	63	1	No Gas	102.521	1.092	2371827	1.04	100	102.5	90	110	
Se	82	1	No Gas	105.180	0.548	41133	0.62	100	105.2	90	110	
Zr	90	1	No Gas	51.952	1.240	2130377	0.82	100	52.0	90	110	CCV Main CR1-2 Failed
Zr	90	2	He	51.813	2.369	852060	1.83	100	51.8	90	110	CCV Main CR1-2 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	1416842	0.58	1676119	84.53	70	120	
Ge	72	2	He	1152678	1.29	1163381	99.08	70	120	
Ge	72	1	No Gas	3975139	0.12	4078799	97.46	70	120	
In	115	1	No Gas	5115001	0.60	5144583	99.43	70	120	
Bi	209	1	No Gas	5359255	1.09	4944446	108.39	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	172_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T18:22:50-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	116CALB.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	95.580	1.895	1924077	2.36	100	95.6	90	110	
Be	9	1	No Gas	102.052	1.189	505031	1.80	100	102.1	90	110	
V	51	2	He	100.677	2.254	950090	2.82	100	100.7	90	110	
Cr	52	2	He	101.574	2.157	1095938	2.63	100	101.6	90	110	
Fe	56	2	He	9627.994	2.805	97487762	3.24	10000	96.3	90	110	
Se	78	2	He	101.565	0.972	15229	1.72	100	101.6	90	110	
As	75	2	He	99.941	1.207	167718	1.41	100	99.9	90	110	
Ca	44	2	He	9215.957	1.478	569548	2.16	10000	92.2	90	110	
Na	23	2	He	9295.562	0.907	15832876	1.66	10000	93.0	90	110	
Mg	24	2	He	9426.381	0.900	9670489	1.75	10000	94.3	90	110	
K	39	2	He	9415.508	0.754	11211536	1.70	10000	94.2	90	110	
Mn	55	2	He	99.289	2.112	812660	2.50	100	99.3	90	110	
Co	59	2	He	102.382	2.791	1688418	2.90	100	102.4	90	110	
Ni	60	2	He	101.173	1.921	428280	2.16	100	101.2	90	110	
Cu	63	2	He	102.639	2.240	1168457	2.62	100	102.6	90	110	
Zn	66	2	He	100.921	2.465	212588	3.06	100	100.9	90	110	
Al	27	2	He	98.265	1.868	63487	2.99	100	98.3	90	110	
B	11	1	No Gas	465.428	1.100	1397790	1.59	500	93.1	90	110	
Al	27	1	No Gas	97.662	1.475	2324431	1.75	100	97.7	90	110	
Si	28	1	No Gas	473.760	1.343	5675407	1.55	5000	9.5	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	102.055	1.476	3255687	1.72	100	102.1	90	110	
Cd	111	1	No Gas	102.446	1.922	652250	2.16	100	102.4	90	110	
Sr	88	1	No Gas	99.779	1.823	6293305	2.08	100	99.8	90	110	
Mo	95	1	No Gas	97.436	2.300	1180965	2.57	100	97.4	90	110	
Sn	118	1	No Gas	103.598	0.571	2165979	0.83	100	103.6	90	110	
Sb	121	1	No Gas	109.473	1.267	2973290	1.58	100	109.5	90	110	
Ba	137	1	No Gas	103.012	1.275	1091588	1.51	100	103.0	90	110	
Tl	205	1	No Gas	105.893	1.081	8195735	1.52	100	105.9	90	110	
Tl	203	1	No Gas	105.641	1.615	3329763	2.00	100	105.6	90	110	
Pb	208	1	No Gas	102.433	0.464	10847005	0.85	100	102.4	90	110	
U	238	1	No Gas	96.994	1.002	10776499	1.36	100	97.0	90	110	
Ca	43	2	He	9326.807	1.915	33805	3.05	10000	93.3	90	110	
Sb	121	2	He	107.828	1.262	1284226	2.19	100	107.8	90	110	
Ti	47	2	He	100.082	2.807	35847	2.85	100	100.1	90	110	
Cu	63	1	No Gas	101.873	0.892	2236381	1.26	100	101.9	90	110	
Se	82	1	No Gas	102.053	3.321	37883	3.66	100	102.1	90	110	
Zr	90	1	No Gas	50.844	1.598	2004268	1.86	100	50.8	90	110	CCV Main CR1-2 Failed
Zr	90	2	He	51.937	1.894	801568	2.90	100	51.9	90	110	CCV Main CR1-2 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	1335890	0.61	1676119	79.70	70	120	
Ge	72	2	He	1081518	1.18	1163381	92.96	70	120	
Ge	72	1	No Gas	3771797	0.38	4078799	92.47	70	120	
In	115	1	No Gas	4916677	0.27	5144583	95.57	70	120	
Bi	209	1	No Gas	5219533	0.48	4944446	105.56	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	173_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T18:25:15-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	116CALB.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	0.210	15.7	81183	0.9	0.5	
Be	9	1	No Gas	0.098	33.3	708	24.0	0.5	
V	51	2	He	-0.160	-3.5	2062	2.9	2.5	
Cr	52	2	He	-0.456	-9.6	7372	6.1	2.5	
Fe	56	2	He	4.450	13.4	65575	9.7	100	
Se	78	2	He	0.089	78.2	159	6.2	2	
As	75	2	He	0.015	205.8	354	14.6	2.5	
Ca	44	2	He	5.360	47.8	1213	13.6	100	
Na	23	2	He	-57.326	-2.3	208188	1.3	100	
Mg	24	2	He	3.688	18.3	4721	15.1	100	
K	39	2	He	-2.227	-64.3	116029	1.9	100	
Mn	55	2	He	0.213	6.1	2577	4.8	2.5	
Co	59	2	He	0.037	22.6	1390	10.4	2.5	
Ni	60	2	He	0.102	18.8	843	10.4	2.5	
Cu	63	2	He	0.071	10.4	1543	5.5	2	
Zn	66	2	He	0.766	6.4	2540	4.6	2.5	
Al	27	2	He	-0.807	-12.4	1190	5.0	5	
B	11	1	No Gas	3.007	18.4	19240	9.0	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	-0.863	-5.5	40596	2.7	5	
Si	28	1	No Gas	0.423	95.6	370315	0.5	10	
Ag	107	1	No Gas	0.053	51.6	2840	31.0	2.5	
Cd	111	1	No Gas	0.094	32.4	616	31.7	1	
Sr	88	1	No Gas	0.063	50.8	7419	27.2	2.5	
Mo	95	1	No Gas	0.146	25.8	2000	22.9	2.5	
Sn	118	1	No Gas	0.091	22.0	8273	4.6	5	
Sb	121	1	No Gas	0.097	28.5	3230	23.8	2.5	
Ba	137	1	No Gas	0.095	36.1	1777	20.3	2.5	
Tl	205	1	No Gas	0.113	34.1	11970	27.3	1	
Tl	203	1	No Gas	0.111	35.9	4761	28.9	1	
Pb	208	1	No Gas	0.096	36.7	16471	25.2	2.5	
U	238	1	No Gas	0.087	39.5	14176	29.6	2.5	
Ca	43	2	He	5.972	93.2	63	32.9	100	
Sb	121	2	He	0.057	12.7	917	9.8	2.5	
Ti	47	2	He	0.011	244.1	20	50.0	2.5	
Cu	63	1	No Gas	-0.086	-47.4	4671	19.1	2.5	
Se	82	1	No Gas	-0.135	-166.4	363	22.2	2	
Zr	90	1	No Gas	0.077	31.9	4367	22.1	2.5	
Zr	90	2	He	0.037	37.5	2290	10.1	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	1415964	0.17	1676119	84.48	70	120	
Ge	72	2	He	1106349	0.55	1163381	95.10	70	120	
Ge	72	1	No Gas	3838591	0.89	4078799	94.11	70	120	

Continuing Calibration Blank (CCB) Report

In	115	1	No Gas	5033074	0.60	5144583	97.83	70	120	
Bi	209	1	No Gas	5363685	1.73	4944446	108.48	70	120	

Sample Report

Sample Table

Sample Name	HS24060694-01
Data File Name	175SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T18:38:53-05:00
Sample Type	Sample
Dilution	2
Comment	TW DOD B 213798
ISTD Ref FileName	116CALB.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	8.089	16.179	2.16	229852	0.00	2000	
Be	9	1	No Gas	0.007	0.014	177.52	218	0.00	2000	
V	51	2	He	0.198	0.396	7.97	5383	0.00	2000	
Cr	52	2	He	0.570	1.139	8.38	18155	0.00	2000	
Fe	56	2	He	112.016	224.032	1.99	1152927	0.01	200000	
Se	78	2	He	0.292	0.584	74.26	186	0.16	2000	
As	75	2	He	0.145	0.290	18.37	564	0.03	2000	
Ca	44	2	He	8014.561	16029.122	0.47	495367	1.62	200000	
Na	23	2	He	90089.117	180178.233	1.57	150831321	0.06	200000	
Mg	24	2	He	4328.122	8656.244	1.69	4440261	0.10	200000	
K	39	2	He	557.896	1115.792	1.59	773414	0.07	200000	
Mn	55	2	He	101.740	203.480	1.19	832652	0.01	2000	
Co	59	2	He	0.450	0.899	4.79	8156	0.01	2000	
Ni	60	2	He	2.203	4.406	4.92	9710	0.02	2000	
Cu	63	2	He	0.626	1.252	5.97	7822	0.01	2000	
Zn	66	2	He	31.178	62.356	1.11	66273	0.05	2000	
Al	27	2	He	15.527	31.053	5.81	11435	0.14	2000	
B	11	1	No Gas	6.987	13.974	4.40	30107	0.02	2000	
Al	27	1	No Gas	14.715	29.431	3.61	397847	0.00	2000	
Si	28	1	No Gas	11476.934	22953.869	2.85	128103331	0.01	2000	>LDR
Ag	107	1	No Gas	0.023	0.047	15.58	1807	0.00	2000	
Cd	111	1	No Gas	0.070	0.140	12.73	444	0.02	2000	
Sr	88	1	No Gas	123.588	247.175	1.35	7702368	0.00	2000	
Mo	95	1	No Gas	0.087	0.174	2.15	1220	0.01	2000	
Sn	118	1	No Gas	1.487	2.975	3.44	36768	0.00	2000	
Sb	121	1	No Gas	0.144	0.287	6.84	4417	0.00	2000	
Ba	137	1	No Gas	99.992	199.985	0.17	1047148	0.01	2000	
Tl	205	1	No Gas	0.001	0.003	119.95	2974	0.00	2000	
Tl	203	1	No Gas	0.008	0.015	59.90	1353	0.00	2000	
Pb	208	1	No Gas	0.046	0.091	12.01	10532	0.00	2000	
U	238	1	No Gas	0.308	0.617	3.79	38016	0.00	2000	
Ca	43	2	He	8208.172	16416.343	1.83	29749	27.59	200000	
Sb	121	2	He	0.130	0.260	0.83	1770	0.01	2000	
Ti	47	2	He	0.794	1.589	12.35	300	0.26	2000	
Cu	63	1	No Gas	1.006	2.013	1.94	28279	0.00	2000	
Ca	44	1	No Gas	7967.197	15934.395	2.91	6922660	0.12	200000	
Zn	66	1	No Gas	30.144	60.288	2.42	182236	0.02	2000	
Se	82	1	No Gas	0.263	0.526	124.41	500	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	1339575	0.65	1676119	79.92	70	120	
Ge	72	2	He	1081479	0.64	1163381	92.96	70	120	
Ge	72	1	No Gas	3742314	1.35	4078799	91.75	70	120	

Sample Report

In	115	1	No Gas	4858948	0.34	5144583	94.45	70	120	
Bi	209	1	No Gas	5182459	0.43	4944446	104.81	70	120	

Sample Report

Sample Table

Sample Name	HS24060694-01SD
Data File Name	176SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T18:41:21-05:00
Sample Type	Sample
Dilution	10
Comment	TW DOD B 213798
ISTD Ref FileName	116CALB.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	1.714	17.144	4.27	113877	0.00	2000	
Be	9	1	No Gas	0.004	0.040	85.66	218	0.00	2000	
V	51	2	He	0.004	0.045	218.61	3696	0.00	2000	
Cr	52	2	He	-0.345	-3.454	-3.51	8700	0.00	2000	
Fe	56	2	He	22.531	225.305	1.47	256254	0.01	200000	
Se	78	2	He	0.122	1.223	138.69	167	0.07	2000	
As	75	2	He	0.014	0.136	104.18	357	0.00	2000	
Ca	44	2	He	1590.695	15906.950	2.58	102670	1.55	200000	
Na	23	2	He	18192.815	181928.152	1.28	31835337	0.06	200000	
Mg	24	2	He	864.203	8642.026	1.50	920125	0.09	200000	
K	39	2	He	106.483	1064.826	0.85	250443	0.04	200000	
Mn	55	2	He	20.642	206.421	1.69	175835	0.01	2000	
Co	59	2	He	0.096	0.957	11.61	2410	0.00	2000	
Ni	60	2	He	0.418	4.178	7.71	2240	0.02	2000	
Cu	63	2	He	0.133	1.326	10.43	2294	0.01	2000	
Zn	66	2	He	6.547	65.466	1.58	15149	0.04	2000	
Al	27	2	He	2.315	23.154	18.46	3244	0.07	2000	
B	11	1	No Gas	1.251	12.511	7.61	13910	0.01	2000	
Al	27	1	No Gas	2.563	25.632	11.55	123924	0.00	2000	
Si	28	1	No Gas	2361.573	23615.726	2.26	27894256	0.01	2000	>LDR
Ag	107	1	No Gas	-0.007	-0.075	-7.87	870	0.00	2000	
Cd	111	1	No Gas	0.019	0.191	43.40	128	0.01	2000	
Sr	88	1	No Gas	24.999	249.995	2.22	1631385	0.00	2000	
Mo	95	1	No Gas	0.019	0.186	32.36	420	0.00	2000	
Sn	118	1	No Gas	0.229	2.293	8.80	11338	0.00	2000	
Sb	121	1	No Gas	0.024	0.240	19.52	1250	0.00	2000	
Ba	137	1	No Gas	20.170	201.698	0.64	221401	0.01	2000	
Tl	205	1	No Gas	0.000	0.000	-2182.88	2940	0.00	2000	
Tl	203	1	No Gas	-0.002	-0.022	-109.08	1073	0.00	2000	
Pb	208	1	No Gas	0.007	0.068	15.25	6627	0.00	2000	
U	238	1	No Gas	0.061	0.607	4.63	11012	0.00	2000	
Ca	43	2	He	1648.108	16481.078	3.58	6228	26.46	200000	
Sb	121	2	He	0.016	0.161	39.95	427	0.00	2000	
Ti	47	2	He	0.145	1.451	31.82	70	0.21	2000	
Cu	63	1	No Gas	0.021	0.214	55.26	7209	0.00	2000	
Ca	44	1	No Gas	1618.164	16181.638	1.83	1492926	0.11	200000	
Zn	66	1	No Gas	6.228	62.275	1.58	41526	0.01	2000	
Se	82	1	No Gas	-0.016	-0.157	-1126.35	417	0.00	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	1438714	0.39	1676119	85.84	70	120	
Ge	72	2	He	1121471	0.38	1163381	96.40	70	120	
Ge	72	1	No Gas	3917207	0.34	4078799	96.04	70	120	

Sample Report

In	115	1	No Gas	5079107	0.10	5144583	98.73	70	120	
Bi	209	1	No Gas	5322337	0.52	4944446	107.64	70	120	

Sample Report

Sample Table

Sample Name	HS24060694-01MS
Data File Name	177SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T18:43:45-05:00
Sample Type	Sample
Dilution	2
Comment	TW DOD B 213798
ISTD Ref FileName	116CALB.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	53.144	106.289	2.02	1106292	0.00	2000	
Be	9	1	No Gas	24.224	48.449	2.76	120482	0.02	2000	
V	51	2	He	24.028	48.056	1.58	230324	0.01	2000	
Cr	52	2	He	24.165	48.331	2.09	270983	0.01	2000	
Fe	56	2	He	2541.617	5083.235	1.72	25849239	0.01	200000	
Se	78	2	He	25.072	50.144	4.26	3882	0.65	2000	
As	75	2	He	24.496	48.992	1.46	41515	0.06	2000	
Ca	44	2	He	10020.180	20040.361	1.37	621586	1.61	200000	
Na	23	2	He	89736.794	179473.588	1.40	150843014	0.06	200000	
Mg	24	2	He	6588.058	13176.116	2.04	6785336	0.10	200000	
K	39	2	He	2946.774	5893.549	1.25	3602602	0.08	200000	
Mn	55	2	He	119.616	239.232	0.95	982710	0.01	2000	
Co	59	2	He	24.565	49.131	2.01	407299	0.01	2000	
Ni	60	2	He	25.193	50.385	0.99	107360	0.02	2000	
Cu	63	2	He	24.602	49.204	2.67	281711	0.01	2000	
Zn	66	2	He	30.319	60.639	0.51	64729	0.05	2000	
Al	27	2	He	53.602	107.204	2.69	35525	0.15	2000	
B	11	1	No Gas	216.679	433.357	1.43	658207	0.03	2000	
Al	27	1	No Gas	51.452	102.904	2.57	1263022	0.00	2000	
Si	28	1	No Gas	11309.789	22619.577	2.90	128295001	0.01	2000	>LDR
Ag	107	1	No Gas	23.964	47.927	2.22	763984	0.00	2000	
Cd	111	1	No Gas	24.308	48.617	1.75	154512	0.02	2000	
Sr	88	1	No Gas	162.713	325.426	3.03	10241929	0.00	2000	
Mo	95	1	No Gas	23.508	47.015	2.48	284555	0.01	2000	
Sn	118	1	No Gas	42.464	84.928	1.91	889975	0.00	2000	
Sb	121	1	No Gas	25.318	50.636	1.08	693624	0.00	2000	
Ba	137	1	No Gas	121.518	243.036	2.96	1285260	0.01	2000	
Tl	205	1	No Gas	20.220	40.441	2.76	1532825	0.00	2000	
Tl	203	1	No Gas	20.231	40.461	1.75	624509	0.00	2000	
Pb	208	1	No Gas	23.625	47.251	1.33	2451071	0.00	2000	
U	238	1	No Gas	43.656	87.312	0.91	4745844	0.00	2000	
Ca	43	2	He	9982.687	19965.375	2.37	36318	27.49	200000	
Sb	121	2	He	25.598	51.196	1.22	306217	0.01	2000	
Ti	47	2	He	67.596	135.192	0.59	24311	0.28	2000	
Cu	63	1	No Gas	24.876	49.751	2.17	555416	0.00	2000	
Ca	44	1	No Gas	9963.888	19927.777	1.75	8792213	0.11	200000	
Zn	66	1	No Gas	28.548	57.096	0.81	175528	0.02	2000	
Se	82	1	No Gas	24.234	48.467	5.86	9380	0.26	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	1341212	0.53	1676119	80.02	70	120	
Ge	72	2	He	1085752	0.32	1163381	93.33	70	120	
Ge	72	1	No Gas	3802419	0.30	4078799	93.22	70	120	

Sample Report

In	115	1	No Gas	4909495	1.62	5144583	95.43	70	120	
Bi	209	1	No Gas	5104730	0.73	4944446	103.24	70	120	

Sample Report

Sample Table

Sample Name	HS24060694-01MSD
Data File Name	178SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T18:46:13-05:00
Sample Type	Sample
Dilution	2
Comment	TW DOD B 213798
ISTD Ref FileName	116CALB.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	53.272	106.545	1.81	1107681	0.00	2000	
Be	9	1	No Gas	24.081	48.161	1.66	119653	0.02	2000	
V	51	2	He	23.906	47.811	1.92	229339	0.01	2000	
Cr	52	2	He	23.941	47.881	1.93	268773	0.01	2000	
Fe	56	2	He	2513.312	5026.624	1.98	25581056	0.01	200000	
Se	78	2	He	24.770	49.541	0.19	3840	0.65	2000	
As	75	2	He	24.159	48.318	1.67	40978	0.06	2000	
Ca	44	2	He	9926.309	19852.618	2.24	616209	1.61	200000	
Na	23	2	He	89013.439	178026.878	2.03	149733861	0.06	200000	
Mg	24	2	He	6520.049	13040.099	1.54	6720233	0.10	200000	
K	39	2	He	2918.474	5836.948	1.83	3571822	0.08	200000	
Mn	55	2	He	118.746	237.493	2.57	976269	0.01	2000	
Co	59	2	He	24.370	48.740	2.45	404367	0.01	2000	
Ni	60	2	He	25.103	50.205	1.95	107056	0.02	2000	
Cu	63	2	He	24.406	48.812	1.04	279682	0.01	2000	
Zn	66	2	He	28.697	57.394	1.49	61364	0.05	2000	
Al	27	2	He	54.214	108.427	1.14	35943	0.15	2000	
B	11	1	No Gas	217.805	435.611	1.95	660912	0.03	2000	
Al	27	1	No Gas	51.443	102.885	3.51	1266173	0.00	2000	
Si	28	1	No Gas	11297.009	22594.017	3.20	128492805	0.01	2000	>LDR
Ag	107	1	No Gas	23.911	47.822	1.80	764185	0.00	2000	
Cd	111	1	No Gas	24.214	48.428	2.20	154275	0.02	2000	
Sr	88	1	No Gas	162.162	324.325	1.89	10233270	0.00	2000	
Mo	95	1	No Gas	23.417	46.833	1.88	284159	0.01	2000	
Sn	118	1	No Gas	42.754	85.508	1.60	898193	0.00	2000	
Sb	121	1	No Gas	25.574	51.148	2.39	702497	0.00	2000	
Ba	137	1	No Gas	123.291	246.582	2.03	1307308	0.01	2000	
Tl	205	1	No Gas	20.028	40.057	2.11	1538133	0.00	2000	
Tl	203	1	No Gas	20.152	40.305	1.88	630270	0.00	2000	
Pb	208	1	No Gas	23.578	47.156	1.83	2478322	0.00	2000	
U	238	1	No Gas	43.270	86.539	0.85	4765983	0.00	2000	
Ca	43	2	He	10320.470	20640.941	1.72	37571	27.47	200000	
Sb	121	2	He	25.233	50.466	1.81	302069	0.01	2000	
Ti	47	2	He	66.163	132.327	2.25	23817	0.28	2000	
Cu	63	1	No Gas	24.951	49.901	3.00	558560	0.00	2000	
Ca	44	1	No Gas	9912.366	19824.731	3.34	8769989	0.11	200000	
Zn	66	1	No Gas	28.506	57.012	2.84	175743	0.02	2000	
Se	82	1	No Gas	23.735	47.469	4.64	9220	0.26	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	1339822	0.21	1676119	79.94	70	120	
Ge	72	2	He	1086649	1.03	1163381	93.40	70	120	
Ge	72	1	No Gas	3812922	0.73	4078799	93.48	70	120	

Sample Report

In	115	1	No Gas	4920664	0.49	5144583	95.65	70	120	
Bi	209	1	No Gas	5171875	1.22	4944446	104.60	70	120	

Sample Report

Sample Table

Sample Name	HS24060694-01PDS
Data File Name	179SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T18:48:41-05:00
Sample Type	Sample
Dilution	2
Comment	TW DOD B 213798
ISTD Ref FileName	116CALB.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	7.707	15.414	0.96	223574	0.00	2000	
Be	9	1	No Gas	48.157	96.314	1.99	240289	0.02	2000	
V	51	2	He	47.847	95.693	0.86	455329	0.01	2000	
Cr	52	2	He	47.520	95.041	0.99	521399	0.01	2000	
Fe	56	2	He	4968.057	9936.115	0.74	50530004	0.01	200000	
Se	78	2	He	50.017	100.033	2.53	7605	0.66	2000	
As	75	2	He	48.381	96.761	1.88	81718	0.06	2000	
Ca	44	2	He	12105.104	24210.208	1.61	751063	1.61	200000	
Na	23	2	He	90458.522	180917.044	1.52	152113931	0.06	200000	
Mg	24	2	He	8923.691	17847.382	1.44	9195351	0.10	200000	
K	39	2	He	5334.231	10668.461	1.44	6430191	0.08	200000	
Mn	55	2	He	141.918	283.836	0.74	1166289	0.01	2000	
Co	59	2	He	48.584	97.168	1.11	805134	0.01	2000	
Ni	60	2	He	49.806	99.613	0.94	211973	0.02	2000	
Cu	63	2	He	48.379	96.759	1.35	553540	0.01	2000	
Zn	66	2	He	54.581	109.162	1.24	115869	0.05	2000	
Al	27	2	He	52.916	105.832	1.35	35104	0.15	2000	
B	11	1	No Gas	8.152	16.304	4.24	33768	0.02	2000	
Al	27	1	No Gas	51.167	102.334	2.88	1246655	0.00	2000	
Si	28	1	No Gas	11206.201	22412.401	2.82	126141208	0.01	2000	>LDR
Ag	107	1	No Gas	48.865	97.730	1.89	1564980	0.00	2000	
Cd	111	1	No Gas	48.402	96.804	1.52	309261	0.02	2000	
Sr	88	1	No Gas	118.276	236.551	2.31	7485776	0.00	2000	
Mo	95	1	No Gas	46.542	93.084	2.21	566199	0.01	2000	
Sn	118	1	No Gas	0.203	0.405	3.92	10458	0.00	2000	
Sb	121	1	No Gas	49.781	99.561	2.29	1352761	0.00	2000	
Ba	137	1	No Gas	144.825	289.650	2.44	1539824	0.01	2000	
Tl	205	1	No Gas	47.516	95.032	1.20	3621288	0.00	2000	
Tl	203	1	No Gas	47.247	94.494	1.25	1466398	0.00	2000	
Pb	208	1	No Gas	47.325	94.649	1.60	4935674	0.00	2000	
U	238	1	No Gas	0.346	0.693	5.81	41851	0.00	2000	
Ca	43	2	He	11939.673	23879.345	1.25	43445	27.48	200000	
Sb	121	2	He	49.531	99.062	1.83	592570	0.01	2000	
Ti	47	2	He	49.858	99.716	2.09	17942	0.28	2000	
Cu	63	1	No Gas	48.719	97.439	2.03	1073256	0.00	2000	
Ca	44	1	No Gas	12328.855	24657.709	3.08	10788695	0.11	200000	
Zn	66	1	No Gas	52.739	105.479	2.72	319586	0.02	2000	
Se	82	1	No Gas	48.568	97.136	3.97	18249	0.27	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	1346434	0.16	1676119	80.33	70	120	
Ge	72	2	He	1086243	0.95	1163381	93.37	70	120	
Ge	72	1	No Gas	3773611	1.10	4078799	92.52	70	120	

Sample Report

In	115	1	No Gas	4934465	0.27	5144583	95.92	70	120	
Bi	209	1	No Gas	5137205	0.94	4944446	103.90	70	120	

Sample Report

Sample Table

Sample Name	HS24060694-02
Data File Name	180SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T18:58:16-05:00
Sample Type	Sample
Dilution	20
Comment	TW DOD B 213798
ISTD Ref FileName	116CALB.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	5.781	115.623	2.47	199730	0.00	2000	
Be	9	1	No Gas	0.006	0.112	179.47	228	0.00	2000	
V	51	2	He	-0.025	-0.500	-30.76	3367	0.00	2000	
Cr	52	2	He	-0.109	-2.181	-37.78	11181	0.00	2000	
Fe	56	2	He	27.889	557.774	2.31	308689	0.01	200000	
Se	78	2	He	0.013	0.264	714.86	148	0.01	2000	
As	75	2	He	-0.011	-0.221	-131.82	310	0.00	2000	
Ca	44	2	He	3411.104	68222.073	2.32	216474	1.58	200000	
Na	23	2	He	12924.530	258490.602	1.98	22430146	0.06	200000	
Mg	24	2	He	1923.638	38472.761	2.19	2022068	0.10	200000	
K	39	2	He	1833.884	36677.676	2.74	2332503	0.08	200000	
Mn	55	2	He	5.230	104.598	2.13	44599	0.01	2000	
Co	59	2	He	0.053	1.068	13.87	1667	0.00	2000	
Ni	60	2	He	0.062	1.234	15.92	670	0.01	2000	
Cu	63	2	He	0.091	1.815	23.18	1777	0.01	2000	
Zn	66	2	He	1.006	20.125	6.18	3060	0.03	2000	
Al	27	2	He	0.211	4.225	180.51	1850	0.01	2000	
B	11	1	No Gas	3.078	61.562	1.95	19881	0.02	2000	
Al	27	1	No Gas	0.097	1.931	57.09	63111	0.00	2000	
Si	28	1	No Gas	812.646	16252.917	2.22	9627490	0.01	2000	
Ag	107	1	No Gas	-0.005	-0.093	-96.73	957	0.00	2000	
Cd	111	1	No Gas	0.017	0.337	6.25	112	0.02	2000	
Sr	88	1	No Gas	138.426	2768.520	1.54	8962292	0.00	2000	
Mo	95	1	No Gas	0.035	0.708	37.84	627	0.01	2000	
Sn	118	1	No Gas	-0.020	-0.407	-32.21	5925	0.00	2000	
Sb	121	1	No Gas	0.078	1.559	5.56	2710	0.00	2000	
Ba	137	1	No Gas	39.458	789.157	2.72	429721	0.01	2000	
Tl	205	1	No Gas	0.012	0.230	18.53	4147	0.00	2000	
Tl	203	1	No Gas	0.016	0.311	11.20	1770	0.00	2000	
Pb	208	1	No Gas	0.010	0.208	28.02	7548	0.00	2000	
U	238	1	No Gas	0.006	0.118	22.75	5165	0.00	2000	
Ca	43	2	He	3548.071	70961.418	1.34	13196	26.89	200000	
Sb	121	2	He	0.072	1.449	16.27	1110	0.01	2000	
Ti	47	2	He	0.020	0.409	205.87	23	0.09	2000	
Cu	63	1	No Gas	-0.035	-0.709	-27.56	5788	0.00	2000	
Ca	44	1	No Gas	3357.297	67145.942	2.10	3002068	0.11	200000	
Zn	66	1	No Gas	0.851	17.025	1.37	7799	0.01	2000	
Se	82	1	No Gas	-0.116	-2.325	-21.20	370	-0.03	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	1446066	0.44	1676119	86.27	70	120	
Ge	72	2	He	1107934	1.23	1163381	95.23	70	120	
Ge	72	1	No Gas	3831437	0.29	4078799	93.94	70	120	

Sample Report

In	115	1	No Gas	5048076	0.67	5144583	98.12	70	120	
Bi	209	1	No Gas	5725370	3.00	4944446	115.79	70	120	

Sample Report

Sample Table

Sample Name	HS24060694-03
Data File Name	181SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T19:00:40-05:00
Sample Type	Sample
Dilution	20
Comment	TW DOD B 213798
ISTD Ref FileName	116CALB.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	12.066	241.329	2.79	325013	0.00	2000	
Be	9	1	No Gas	0.014	0.275	74.59	267	0.01	2000	
V	51	2	He	0.005	0.097	509.33	3683	0.00	2000	
Cr	52	2	He	-0.344	-6.874	-7.97	8680	0.00	2000	
Fe	56	2	He	134.206	2684.121	2.32	1421893	0.01	200000	
Se	78	2	He	0.075	1.502	140.86	159	0.05	2000	
As	75	2	He	0.051	1.026	49.69	420	0.01	2000	
Ca	44	2	He	1456.709	29134.182	0.69	93661	1.56	200000	
Na	23	2	He	10564.207	211284.135	2.01	18529445	0.06	200000	
Mg	24	2	He	656.100	13121.997	1.75	695512	0.09	200000	
K	39	2	He	3866.390	77327.804	2.44	4822147	0.08	200000	
Mn	55	2	He	9.708	194.153	2.99	82731	0.01	2000	
Co	59	2	He	0.008	0.155	130.76	903	0.00	2000	
Ni	60	2	He	0.021	0.428	94.05	500	0.00	2000	
Cu	63	2	He	0.034	0.682	16.52	1127	0.00	2000	
Zn	66	2	He	0.359	7.189	23.09	1683	0.02	2000	
Al	27	2	He	-0.044	-0.879	-380.34	1697	0.00	2000	
B	11	1	No Gas	9.686	193.726	0.99	40411	0.02	2000	
Al	27	1	No Gas	-0.221	-4.420	-27.36	55851	0.00	2000	
Si	28	1	No Gas	1034.092	20681.831	2.39	12199476	0.01	2000	
Ag	107	1	No Gas	-0.007	-0.136	-46.24	887	0.00	2000	
Cd	111	1	No Gas	0.009	0.187	37.89	63	0.01	2000	
Sr	88	1	No Gas	112.013	2240.262	1.86	7265256	0.00	2000	
Mo	95	1	No Gas	0.041	0.813	8.01	693	0.01	2000	
Sn	118	1	No Gas	-0.046	-0.926	-7.13	5378	0.00	2000	
Sb	121	1	No Gas	0.025	0.492	34.18	1243	0.00	2000	
Ba	137	1	No Gas	14.121	282.427	0.88	154542	0.01	2000	
Tl	205	1	No Gas	0.003	0.061	79.91	3194	0.00	2000	
Tl	203	1	No Gas	0.007	0.141	37.17	1373	0.00	2000	
Pb	208	1	No Gas	0.007	0.130	16.53	6604	0.00	2000	
U	238	1	No Gas	0.008	0.169	24.85	5098	0.00	2000	
Ca	43	2	He	1687.741	33754.815	3.07	6348	26.59	200000	
Sb	121	2	He	0.020	0.396	28.73	470	0.00	2000	
Ti	47	2	He	0.119	2.372	81.50	60	0.20	2000	
Cu	63	1	No Gas	-0.112	-2.245	-4.45	4097	0.00	2000	
Ca	44	1	No Gas	1341.624	26832.481	2.53	1219806	0.11	200000	
Zn	66	1	No Gas	0.311	6.226	9.36	4521	0.01	2000	
Se	82	1	No Gas	-0.236	-4.715	-34.97	327	-0.07	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	1417600	0.42	1676119	84.58	70	120	
Ge	72	2	He	1116306	0.90	1163381	95.95	70	120	
Ge	72	1	No Gas	3846452	0.13	4078799	94.30	70	120	

Sample Report

In	115	1	No Gas	5056293	0.42	5144583	98.28	70	120	
Bi	209	1	No Gas	5332519	1.40	4944446	107.85	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	184_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T19:07:53-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	116CALB.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	96.017	1.230	1916848	1.37	100	96.0	90	110	
Be	9	1	No Gas	103.294	1.737	507031	1.93	100	103.3	90	110	
V	51	2	He	99.303	3.015	939239	2.28	100	99.3	90	110	
Cr	52	2	He	99.183	3.025	1072808	2.22	100	99.2	90	110	
Fe	56	2	He	9483.686	3.124	96237739	2.27	10000	94.8	90	110	
Se	78	2	He	100.185	4.083	15057	3.47	100	100.2	90	110	
As	75	2	He	99.555	2.648	167462	2.11	100	99.6	90	110	
Ca	44	2	He	9154.792	2.976	567048	2.40	10000	91.5	90	110	
Na	23	2	He	9309.643	2.194	15892682	1.47	10000	93.1	90	110	
Mg	24	2	He	9412.361	2.554	9677968	1.90	10000	94.1	90	110	
K	39	2	He	9373.544	1.865	11187793	1.33	10000	93.7	90	110	
Mn	55	2	He	98.550	2.482	808442	1.66	100	98.5	90	110	
Co	59	2	He	101.235	2.673	1673344	1.81	100	101.2	90	110	
Ni	60	2	He	101.102	3.224	428951	2.52	100	101.1	90	110	
Cu	63	2	He	101.894	2.934	1162574	2.07	100	101.9	90	110	
Zn	66	2	He	101.532	1.629	214358	1.14	100	101.5	90	110	
Al	27	2	He	98.829	2.901	63982	2.55	100	98.8	90	110	
B	11	1	No Gas	467.334	1.227	1392117	1.38	500	93.5	90	110	
Al	27	1	No Gas	96.751	1.907	2296660	2.16	100	96.8	90	110	
Si	28	1	No Gas	469.520	1.859	5611497	1.95	5000	9.4	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	100.909	0.626	3215092	1.32	100	100.9	90	110	
Cd	111	1	No Gas	102.062	1.566	648988	2.02	100	102.1	90	110	
Sr	88	1	No Gas	99.672	0.722	6278345	1.01	100	99.7	90	110	
Mo	95	1	No Gas	96.890	1.434	1172814	1.61	100	96.9	90	110	
Sn	118	1	No Gas	103.093	1.301	2152715	1.59	100	103.1	90	110	
Sb	121	1	No Gas	109.418	1.271	2963088	1.25	100	109.4	90	110	
Ba	137	1	No Gas	102.416	1.799	1083950	2.39	100	102.4	90	110	
Tl	205	1	No Gas	105.634	1.386	8196864	1.96	100	105.6	90	110	
Tl	203	1	No Gas	105.059	1.254	3319909	1.73	100	105.1	90	110	
Pb	208	1	No Gas	101.583	1.333	10785257	2.13	100	101.6	90	110	
U	238	1	No Gas	96.961	1.189	10800357	1.49	100	97.0	90	110	
Ca	43	2	He	9235.717	3.166	33544	2.09	10000	92.4	90	110	
Sb	121	2	He	105.920	1.797	1264372	1.28	100	105.9	90	110	
Ti	47	2	He	98.635	2.630	35412	2.25	100	98.6	90	110	
Cu	63	1	No Gas	101.563	1.616	2223150	1.95	100	101.6	90	110	
Se	82	1	No Gas	103.576	0.829	38328	0.83	100	103.6	90	110	
Zr	90	1	No Gas	50.669	0.899	1994807	1.22	100	50.7	90	110	CCV Main CR1-2 Failed
Zr	90	2	He	51.148	2.327	791124	1.53	100	51.1	90	110	CCV Main CR1-2 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	1325117	0.65	1676119	79.06	70	120	
Ge	72	2	He	1084144	1.09	1163381	93.19	70	120	
Ge	72	1	No Gas	3760875	0.52	4078799	92.21	70	120	
In	115	1	No Gas	4910483	0.87	5144583	95.45	70	120	
Bi	209	1	No Gas	5232986	0.94	4944446	105.84	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	193_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T19:37:20-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	116CALB.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	96.602	2.103	1909078	2.61	100	96.6	90	110	
Be	9	1	No Gas	104.158	2.177	506221	2.64	100	104.2	90	110	
V	51	2	He	100.930	2.027	934733	2.43	100	100.9	90	110	
Cr	52	2	He	100.437	2.591	1063668	3.02	100	100.4	90	110	
Fe	56	2	He	9568.008	1.937	95074682	2.15	10000	95.7	90	110	
Se	78	2	He	101.762	1.790	14974	2.28	100	101.8	90	110	
As	75	2	He	100.750	2.907	165949	3.45	100	100.8	90	110	
Ca	44	2	He	9359.178	1.785	567617	2.12	10000	93.6	90	110	
Na	23	2	He	9486.946	1.363	15851834	1.56	10000	94.9	90	110	
Mg	24	2	He	9538.159	1.762	9603041	2.11	10000	95.4	90	110	
K	39	2	He	9502.388	1.830	11103335	2.16	10000	95.0	90	110	
Mn	55	2	He	99.679	2.197	800658	2.31	100	99.7	90	110	
Co	59	2	He	102.304	2.384	1655774	2.47	100	102.3	90	110	
Ni	60	2	He	102.102	2.380	424166	2.41	100	102.1	90	110	
Cu	63	2	He	102.677	2.137	1147124	2.26	100	102.7	90	110	
Zn	66	2	He	101.864	1.820	210563	2.08	100	101.9	90	110	
Al	27	2	He	99.134	1.063	62836	1.80	100	99.1	90	110	
B	11	1	No Gas	470.612	1.729	1387899	1.86	500	94.1	90	110	
Al	27	1	No Gas	98.101	1.386	2300673	2.31	100	98.1	90	110	
Si	28	1	No Gas	470.960	0.948	5561782	1.84	5000	9.4	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	100.744	0.994	3190048	1.28	100	100.7	90	110	
Cd	111	1	No Gas	102.609	1.454	648436	1.74	100	102.6	90	110	
Sr	88	1	No Gas	99.806	1.346	6248242	1.61	100	99.8	90	110	
Mo	95	1	No Gas	96.513	0.925	1161073	1.21	100	96.5	90	110	
Sn	118	1	No Gas	103.381	1.292	2145441	1.57	100	103.4	90	110	
Sb	121	1	No Gas	110.361	0.695	2953699	1.64	100	110.4	90	110	CCV Main CR1-2 Failed
Ba	137	1	No Gas	102.687	1.180	1080074	1.45	100	102.7	90	110	
Tl	205	1	No Gas	105.725	1.540	8145606	1.04	100	105.7	90	110	
Tl	203	1	No Gas	105.585	1.212	3312940	0.84	100	105.6	90	110	
Pb	208	1	No Gas	101.885	0.425	10740764	0.65	100	101.9	90	110	
U	238	1	No Gas	96.537	1.274	10677588	1.31	100	96.5	90	110	
Ca	43	2	He	9330.908	0.588	33186	1.28	10000	93.3	90	110	
Sb	121	2	He	107.320	1.517	1254324	1.75	100	107.3	90	110	
Ti	47	2	He	100.240	1.359	35238	2.01	100	100.2	90	110	
Cu	63	1	No Gas	102.464	1.398	2216618	2.33	100	102.5	90	110	
Se	82	1	No Gas	106.011	1.163	38762	2.13	100	106.0	90	110	
Zr	90	1	No Gas	50.778	0.817	1986786	1.07	100	50.8	90	110	CCV Main CR1-2 Failed
Zr	90	2	He	52.349	2.020	792799	2.25	100	52.3	90	110	CCV Main CR1-2 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	1311975	0.92	1676119	78.27	70	120	
Ge	72	2	He	1061393	0.77	1163381	91.23	70	120	
Ge	72	1	No Gas	3716739	0.98	4078799	91.12	70	120	
In	115	1	No Gas	4880196	0.29	5144583	94.86	70	120	
Bi	209	1	No Gas	5196400	1.07	4944446	105.10	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	194_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq Date Time	2024-06-25T19:39:44-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	116CALB.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	0.156	6.9	78263	0.1	0.5	
Be	9	1	No Gas	0.096	31.0	682	22.5	0.5	
V	51	2	He	-0.143	-6.6	2182	3.8	2.5	
Cr	52	2	He	-0.459	-2.7	7205	2.2	2.5	
Fe	56	2	He	5.307	4.9	73013	3.8	100	
Se	78	2	He	0.141	22.8	164	3.2	2	
As	75	2	He	0.026	33.1	367	3.6	2.5	
Ca	44	2	He	10.378	29.3	1500	12.2	100	
Na	23	2	He	-62.126	-0.1	196166	1.0	100	
Mg	24	2	He	5.505	6.7	6498	5.3	100	
K	39	2	He	1.095	31.7	117740	1.0	100	
Mn	55	2	He	0.249	17.7	2824	12.7	2.5	
Co	59	2	He	0.041	13.8	1427	5.6	2.5	
Ni	60	2	He	0.110	20.1	863	11.4	2.5	
Cu	63	2	He	0.102	12.1	1873	7.8	2	
Zn	66	2	He	0.795	1.8	2554	1.9	2.5	
Al	27	2	He	-0.641	-33.2	1273	11.3	5	
B	11	1	No Gas	2.721	20.7	17921	9.8	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	-0.593	-13.2	46069	3.6	5	
Si	28	1	No Gas	0.086	762.3	359504	1.7	10	
Ag	107	1	No Gas	0.059	44.0	2977	27.9	2.5	
Cd	111	1	No Gas	0.090	44.6	581	44.3	1	
Sr	88	1	No Gas	0.122	31.9	11095	22.4	2.5	
Mo	95	1	No Gas	0.159	8.3	2127	7.8	2.5	
Sn	118	1	No Gas	0.120	16.0	8780	4.4	5	
Sb	121	1	No Gas	0.107	28.0	3447	23.1	2.5	
Ba	137	1	No Gas	0.145	23.7	2290	16.3	2.5	
Tl	205	1	No Gas	0.103	29.9	11042	22.8	1	
Tl	203	1	No Gas	0.111	31.9	4708	25.0	1	
Pb	208	1	No Gas	0.089	27.7	15424	18.0	2.5	
U	238	1	No Gas	0.081	27.8	13288	20.0	2.5	
Ca	43	2	He	15.535	52.5	97	29.9	100	
Sb	121	2	He	0.058	9.2	920	7.8	2.5	
Ti	47	2	He	0.040	119.9	30	57.7	2.5	
Cu	63	1	No Gas	-0.068	-32.0	4971	9.1	2.5	
Se	82	1	No Gas	-0.135	-40.8	357	5.8	2	
Zr	90	1	No Gas	0.077	27.5	4341	19.8	2.5	
Zr	90	2	He	0.041	26.7	2314	7.7	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	1383746	0.17	1676119	82.56	70	120	
Ge	72	2	He	1085236	0.98	1163381	93.28	70	120	
Ge	72	1	No Gas	3765611	0.52	4078799	92.32	70	120	

Continuing Calibration Blank (CCB) Report

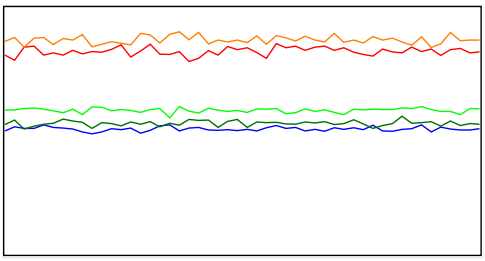
In	115	1	No Gas	4960361	0.55	5144583	96.42	70	120	
Bi	209	1	No Gas	5299915	0.82	4944446	107.19	70	120	

Tune Check Report

Operator Name	ALSHS NoUser
Acq/Data Batch	C:\Agilent\ICPMH\1\DATA\062524A.b
Acq. Date-Time	6/25/2024 9:15:11 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	8229	82290.73		
24	50000	29188	291881.17		
59	100000	50763	507626.89		
115	100000	86958	869579.47		
208	100000	53101	531012.52		

Mass	Resp Ratio	Resp Ratio (Required)	Resp Ratio (Flag)
9		-	
24		-	
59		-	
115		-	
208		-	

Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	2.037	5.000	
24	1.594	5.000	
59	1.685	5.000	
115	1.884	5.000	
208	2.024	5.000	

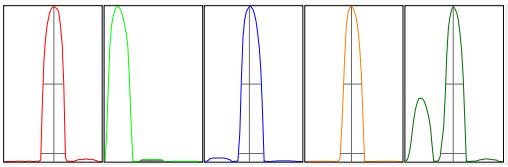
Mass	Background	Background (Required)	Background (Flag)
9	1.200		
24	3.400		
59	1.100		
115	1.700		
208	4.200		

Oxide/Doubly Charged Ratio

Oxide	156 / 140 1.066 %
Doubly Charged	70 / 140 1.008 %

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	8414.64	9.05	8.90 - 9.10	
24	29368.60	23.90	23.90 - 24.10	
59	51640.05	58.90	58.90 - 59.10	
115	87898.89	114.95	114.90 - 115.10	
208	53310.84	208.00	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.63	0.742		
24	0.66	0.747		
59	0.62	0.779		
115	0.55	0.732		
208	0.55	0.780		

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	0.9993	QP Bias	-3.0 V
Mass Offset	126	Axis Offset	0.10		

Hardware Settings

Torch

Torch H	0.0 mm	Torch V	-0.4 mm

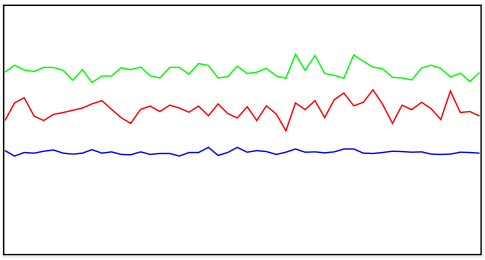
EM

Discriminator	2.9 mV	Analog HV	2151 V	Pulse HV	918 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	292	2915.10		
24	2000	1477	14773.28		
59	50000	20440	204403.23		

Mass	Resp Ratio	Resp Ratio (Required)	Resp Ratio (Flag)
9		-	
24		-	
59		-	

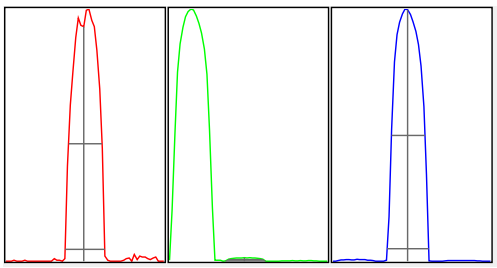
Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	5.890	5.000	Fail
24	3.603	5.000	
59	1.911	5.000	

Mass	Background	Background (Required)	Background (Flag)
9	0.900		
24	0.700		
59	0.200		

Oxide/Doubly Charged Ratio

Oxide 156 / 140 1.394 %
Doubly Charged 70 / 140 0.828 %

Resolution/Axis



Integration Time [sec] 0.1
Acquisition Time [sec] 22.24
Y Axis Linear

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	282.79	9.00	8.90 - 9.10	
24	1482.83	23.95	23.90 - 24.10	
59	20564.08	58.95	58.90 - 59.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.63	0.742		
24	0.66	0.746		

Tune Check Report

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
59	0.62	0.779		

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	0.9993	QP Bias	-18.0 V
Mass Offset	126	Axis Offset	0.10		

Hardware Settings

Torch

Torch H	0.0 mm	Torch V	-0.4 mm

EM

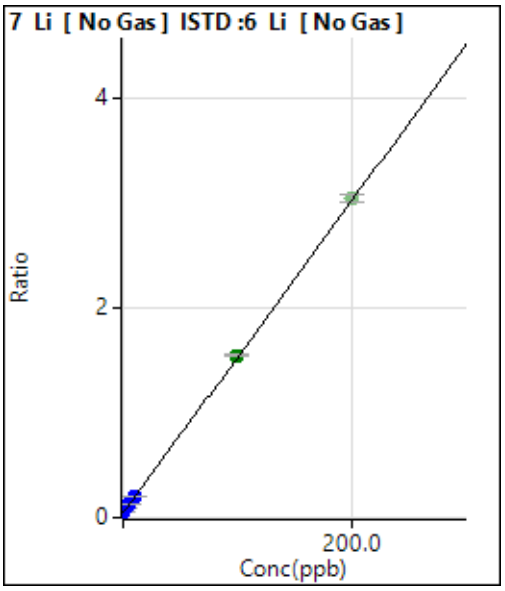
Discriminator	2.9 mV	Analog HV	2151 V	Pulse HV	918 V

Calibration for 140_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\062624A.b\
Analysis File: 062624A.batch.bin
DA Date-Time: 6/26/2024 11:25:02 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	133CALB.d	CAL BLK	6/26/2024 4:47:01 PM
2	134CALS.d	2/10/200	6/26/2024 4:49:32 PM
3	135CALS.d	5/25/500	6/26/2024 4:52:02 PM
4	136CALS.d	10/50/100	6/26/2024 4:54:32 PM
5	137CALS.d	100/500/10K	6/26/2024 4:57:02 PM
6	138CALS.d	200/1000/20K	6/26/2024 4:59:31 PM

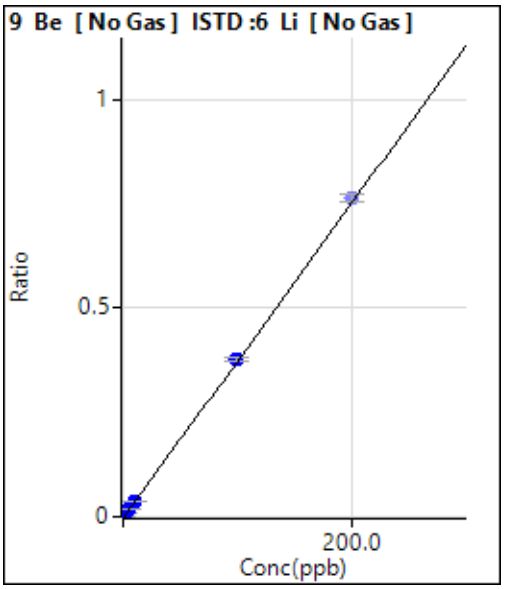
Calibration for 140_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	59739.42	0.0586	P	0.5	
2	☐	2.000	1.849	86936.29	0.0861	P	1.2	-7.5
3	☐	5.000	4.802	129606.31	0.1300	P	1.8	-4.0
4	☐	10.000	9.750	200285.92	0.2036	P	1.3	-2.5
5	☐	100.000	100.038	1414536.59	1.5463	A	1.5	0.0
6	☑	200.000		2653793.29	3.0422	A	1.8	

y = 0.0149 * x + 0.0586
R = 1.0000
DL = 0.05751 ppb
BEC = 3.938 ppb

Weight: <None>
Min Conc: <None>

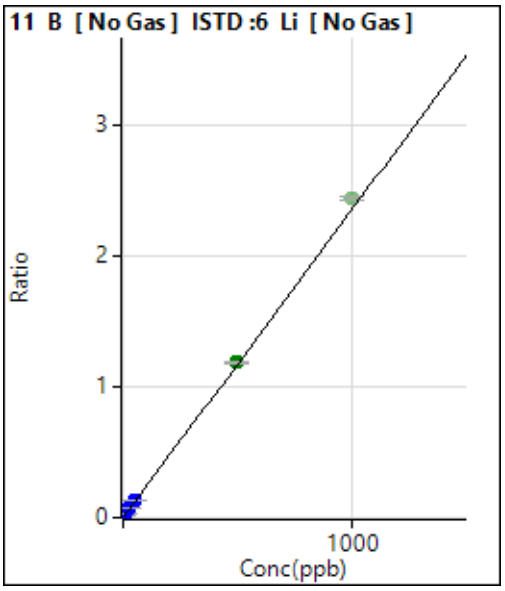


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	88.33	0.0001	P	13.1	
2	☐	2.000	1.828	7055.14	0.0070	P	1.0	-8.6
3	☐	5.000	4.820	18225.08	0.0183	P	4.3	-3.6
4	☐	10.000	9.782	36411.44	0.0370	P	0.4	-2.2
5	☐	100.000	100.034	345473.25	0.3776	P	2.1	0.0
6	☑	200.000		666285.16	0.7638	P	2.3	

y = 0.0038 * x + 8.6598E-005
R = 1.0000
DL = 0.008996 ppb
BEC = 0.02294 ppb

Weight: <None>
Min Conc: <None>

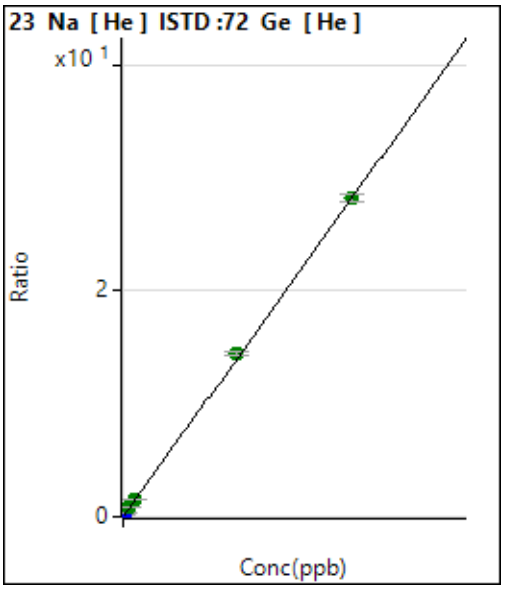
Calibration for 140_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	12960.97	0.0127	P	2.0	
2	☐	10.000	9.617	35709.72	0.0354	P	1.1	-3.8
3	☐	25.000	23.824	68611.09	0.0688	P	1.0	-4.7
4	☐	50.000	48.860	125691.89	0.1278	P	3.2	-2.3
5	☐	500.000	500.180	1089085.66	1.1905	A	1.2	0.0
6	☑	1000.000		2132865.70	2.4450	A	1.3	

y = 0.0024 * x + 0.0127
R = 1.0000
DL = 0.3315 ppb
BEC = 5.396 ppb

Weight: <None>
Min Conc: <None>

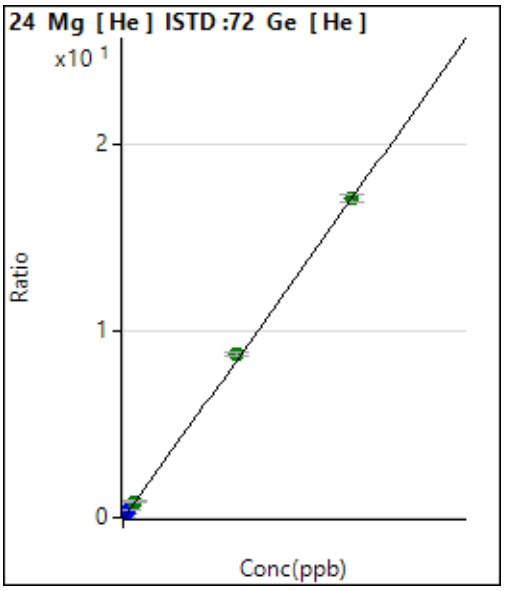


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	146783.30	0.1396	P	1.4	
2	☐	200.000	177.705	408291.71	0.3899	P	1.8	-11.1
3	☐	500.000	483.339	848457.20	0.8205	A	1.3	-3.3
4	☐	1000.000	1003.641	1585793.26	1.5534	A	1.3	0.4
5	☐	10000.00	10151.20	14003940.63	14.4393	A	1.8	1.5
6	☐	20000.00	19924.85	27350490.43	28.2072	A	2.4	-0.4

y = 0.0014 * x + 0.1396
R = 1.0000
DL = 4.253 ppb
BEC = 99.11 ppb

Weight: <None>
Min Conc: <None>

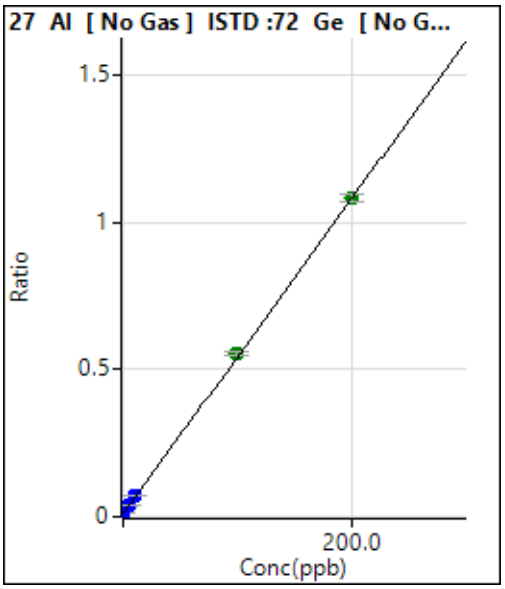
Calibration for 140_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	8726.18	0.0083	P	4.3	
2	☐	200.000	182.984	173615.92	0.1658	P	3.1	-8.5
3	☐	500.000	481.677	437267.96	0.4229	P	1.5	-3.7
4	☐	1000.000	1007.165	893387.10	0.8751	A	1.6	0.7
5	☐	10000.00	10166.53	8494172.37	8.7582	A	2.0	1.7
6	☐	20000.00	19917.00	16628555.59	17.1499	A	2.8	-0.4

y = 8.6065E-004 * x + 0.0083
R = 0.9999
DL = 1.246 ppb
BEC = 9.644 ppb

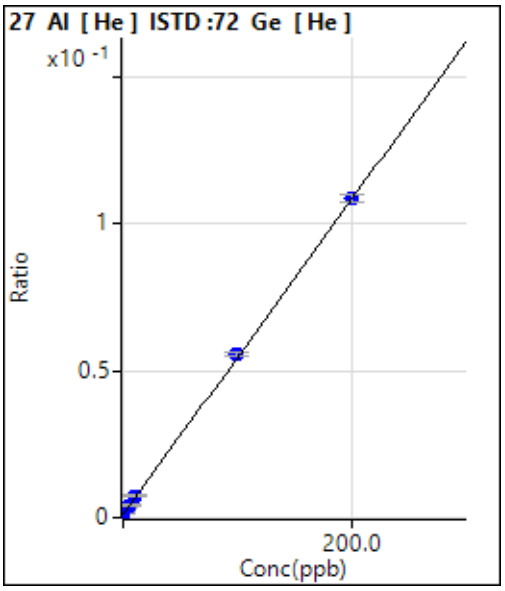
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	55051.69	0.0151	P	1.8	
2	☐	2.000	3.282	118462.80	0.0327	P	1.6	64.1
3	☐	5.000	5.039	150024.81	0.0421	P	0.7	0.8
4	☐	10.000	10.635	253416.03	0.0720	P	2.2	6.3
5	☐	100.000	100.929	1885819.87	0.5553	A	2.1	0.9
6	☐	200.000	199.490	3588785.05	1.0828	A	2.8	-0.3

y = 0.0054 * x + 0.0151
R = 1.0000
DL = 0.1551 ppb
BEC = 2.821 ppb

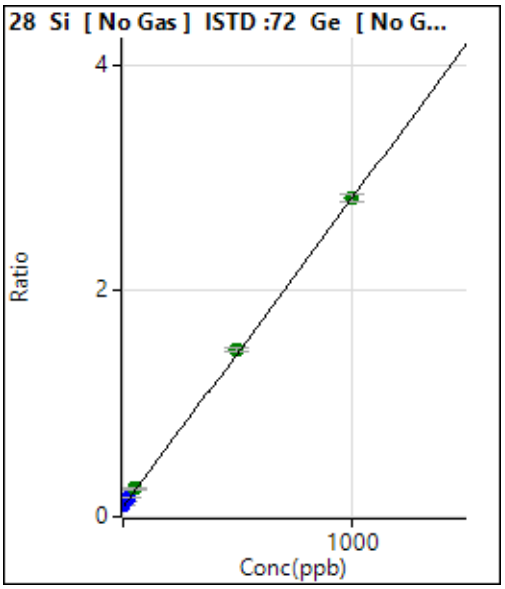
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1680.13	0.0016	P	10.2	
2	☐	2.000	2.991	3350.45	0.0032	P	2.8	49.6
3	☐	5.000	4.926	4380.76	0.0042	P	1.2	-1.5
4	☐	10.000	10.519	7385.39	0.0072	P	7.9	5.2
5	☐	100.000	100.622	53829.69	0.0555	P	2.8	0.6
6	☐	200.000	199.655	105254.43	0.1085	P	2.1	-0.2

y = 5.3567E-004 * x + 0.0016
R = 1.0000
DL = 0.9129 ppb
BEC = 2.983 ppb

Weight: <None>
Min Conc: <None>

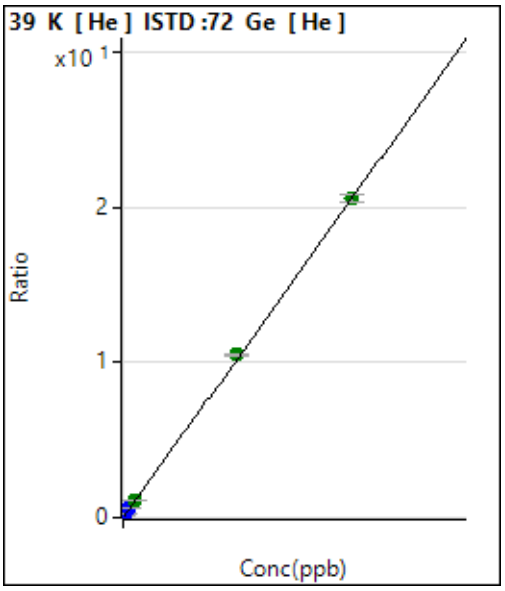


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	368920.63	0.1012	P	1.1	
2	☐	10.000	11.991	485632.29	0.1339	P	0.6	19.9
3	☐	25.000	26.152	615457.02	0.1726	P	1.0	4.6
4	☐	50.000	54.305	877776.08	0.2494	A	2.6	8.6
5	☐	500.000	504.971	5025941.59	1.4799	A	2.3	1.0
6	☐	1000.000	997.250	9359982.99	2.8239	A	2.3	-0.3

y = 0.0027 * x + 0.1012
R = 1.0000
DL = 1.206 ppb
BEC = 37.06 ppb

Weight: <None>
Min Conc: <None>

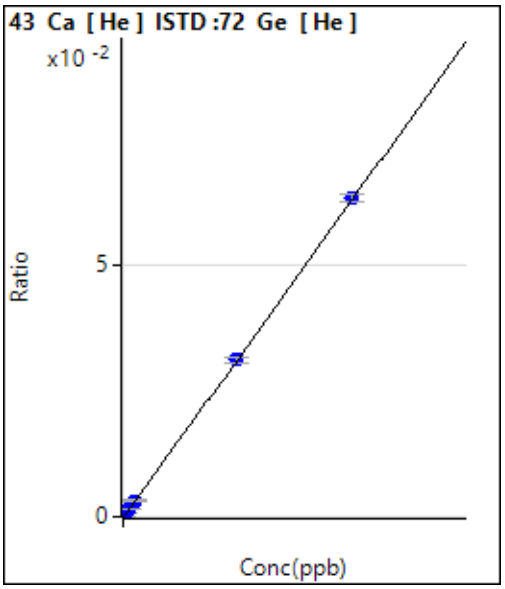
Calibration for 140_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	101288.72	0.0963	P	1.3	
2	☐	200.000	181.230	296313.44	0.2830	P	1.4	-9.4
3	☐	500.000	482.962	613955.67	0.5937	P	1.4	-3.4
4	☐	1000.000	1003.062	1152885.14	1.1293	A	1.2	0.3
5	☐	10000.00	10146.94	10228327.56	10.5460	A	1.2	1.5
6	☐	20000.00	19926.98	19991319.29	20.6178	A	2.8	-0.4

y = 0.0010 * x + 0.0963
R = 1.0000
DL = 3.774 ppb
BEC = 93.55 ppb

Weight: <None>
Min Conc: <None>

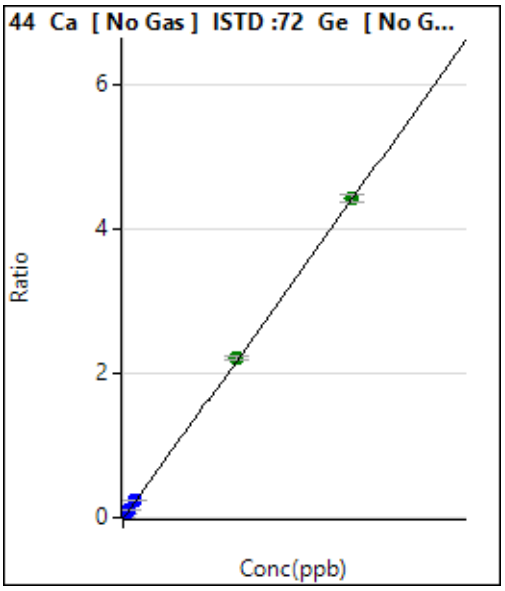


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	43.33	0.0000	P	53.1	
2	☐	200.000	190.907	673.36	0.0006	P	18.5	-4.5
3	☐	500.000	491.614	1643.46	0.0016	P	7.5	-1.7
4	☐	1000.000	1001.817	3263.79	0.0032	P	10.7	0.2
5	☐	10000.00	9890.718	30259.79	0.0312	P	3.5	-1.1
6	☐	20000.00	20054.85	61284.74	0.0632	P	2.6	0.3

y = 3.1494E-006 * x + 4.1190E-005
R = 1.0000
DL = 20.83 ppb
BEC = 13.08 ppb

Weight: <None>
Min Conc: <None>

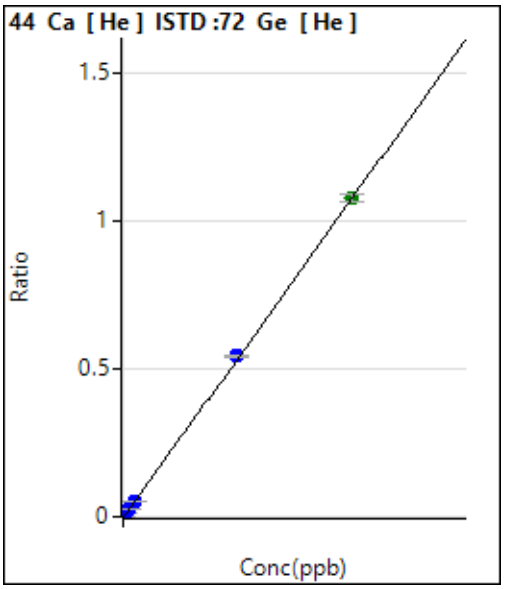
Calibration for 140_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	17087.41	0.0047	P	1.1	
2	☐	200.000	201.566	178411.74	0.0492	P	2.7	0.8
3	☐	500.000	502.319	412283.89	0.1156	P	0.5	0.5
4	☐	1000.000	1023.091	811379.68	0.2306	P	2.4	2.3
5	☐	10000.00	10020.40	7529956.55	2.2171	A	1.9	0.2
6	☐	20000.00	19988.56	14643984.36	4.4180	A	2.2	-0.1

y = 2.2079E-004 * x + 0.0047
R = 1.0000
DL = 0.7153 ppb
BEC = 21.22 ppb

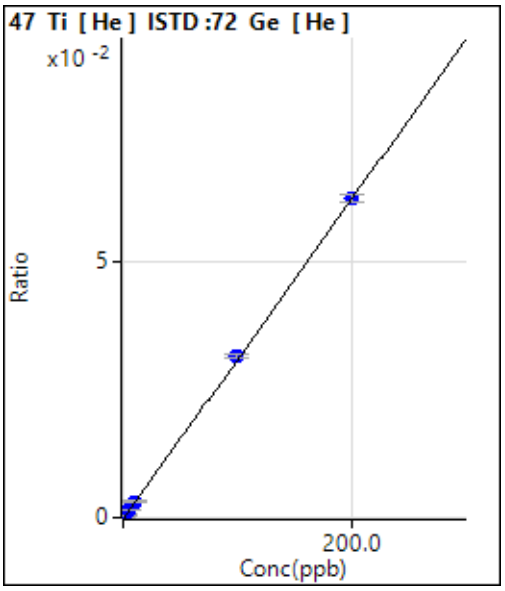
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	783.37	0.0007	P	4.5	
2	☐	200.000	195.744	11831.84	0.0113	P	0.8	-2.1
3	☐	500.000	488.245	27991.78	0.0271	P	2.9	-2.4
4	☐	1000.000	996.381	55601.11	0.0545	P	1.5	-0.4
5	☐	10000.00	10080.44	527807.86	0.5442	P	1.3	0.8
6	☐	20000.00	19960.29	1044197.12	1.0769	A	2.4	-0.2

y = 5.3914E-005 * x + 7.4515E-004
R = 1.0000
DL = 1.862 ppb
BEC = 13.82 ppb

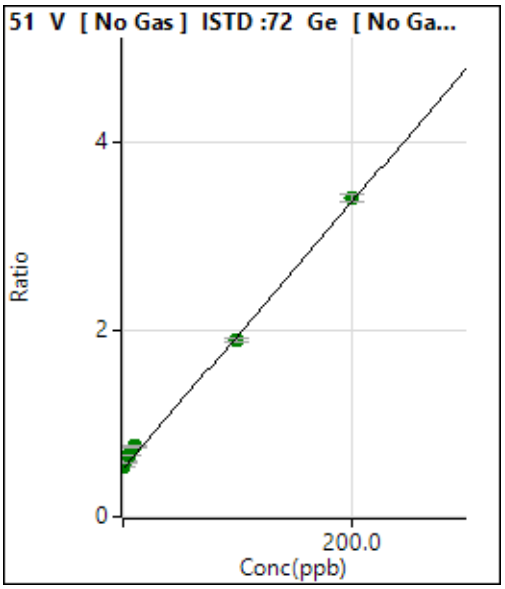
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16.67	0.0000	P	91.5	
2	☐	2.000	1.740	586.69	0.0006	P	25.3	-13.0
3	☐	5.000	4.584	1496.78	0.0014	P	7.6	-8.3
4	☐	10.000	10.050	3220.44	0.0032	P	4.6	0.5
5	☐	100.000	100.810	30550.63	0.0315	P	2.0	0.8
6	☐	200.000	199.606	60461.52	0.0624	P	2.7	-0.2

y = 3.1232E-004 * x + 1.5861E-005
R = 1.0000
DL = 0.1394 ppb
BEC = 0.05078 ppb

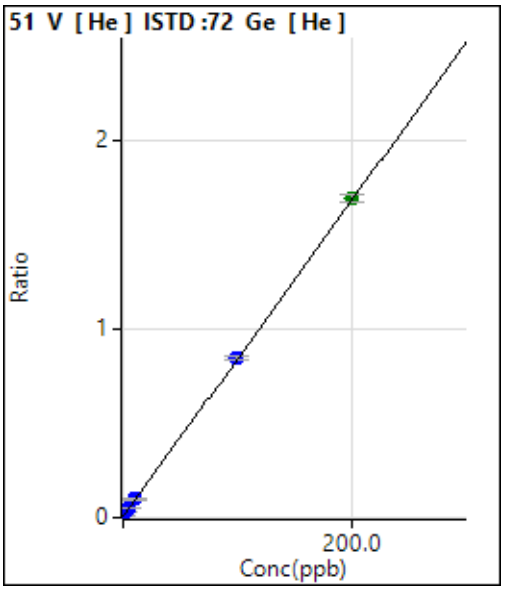
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1943223.28	0.5329	A	0.4	
2	☐	2.000	3.761	2126773.10	0.5864	A	0.7	88.1
3	☐	5.000	9.020	2358541.03	0.6613	A	0.6	80.4
4	☐	10.000	15.667	2659965.39	0.7559	A	2.5	56.7
5	☐	100.000	95.137	6409059.95	1.8871	A	2.3	-4.9
6	☐	200.000	202.030	11298388.69	3.4087	A	2.1	1.0

y = 0.0142 * x + 0.5329
R = 0.9991
DL = 0.4021 ppb
BEC = 37.44 ppb

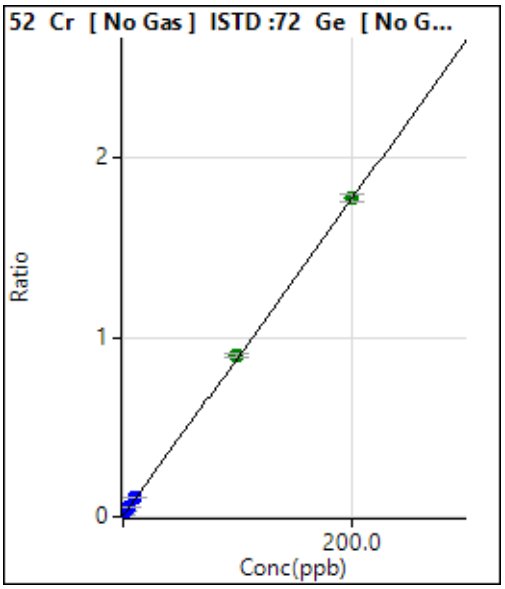
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	14058.27	0.0134	P	3.1	
2	☐	2.000	1.876	30514.65	0.0291	P	1.5	-6.2
3	☐	5.000	4.836	55859.63	0.0540	P	2.3	-3.3
4	☐	10.000	9.993	99400.10	0.0974	P	1.9	-0.1
5	☐	100.000	99.210	821733.56	0.8473	P	2.0	-0.8
6	☐	200.000	200.401	1646384.00	1.6979	A	1.8	0.2

y = 0.0084 * x + 0.0134
R = 1.0000
DL = 0.1495 ppb
BEC = 1.591 ppb

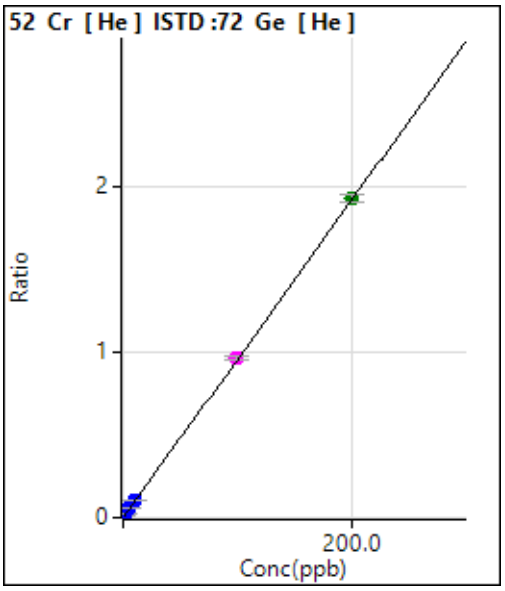
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	47093.54	0.0129	P	1.7	
2	☐	2.000	2.007	111146.81	0.0306	P	1.1	0.4
3	☐	5.000	5.099	206720.77	0.0580	P	1.1	2.0
4	☐	10.000	10.352	367238.17	0.1044	P	2.1	3.5
5	☐	100.000	100.460	3057634.75	0.9003	A	2.0	0.5
6	☐	200.000	199.750	5891257.62	1.7774	A	1.9	-0.1

y = 0.0088 * x + 0.0129
R = 1.0000
DL = 0.07386 ppb
BEC = 1.462 ppb

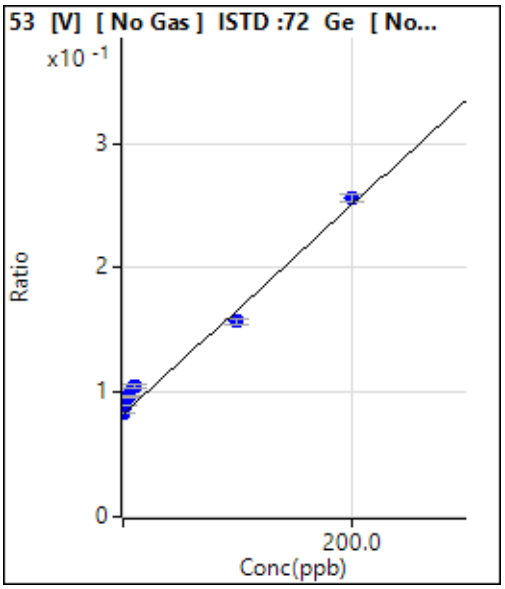
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	9503.37	0.0090	P	1.1	
2	☐	2.000	1.847	28011.95	0.0267	P	2.8	-7.7
3	☐	5.000	4.749	56431.70	0.0546	P	1.5	-5.0
4	☐	10.000	9.952	106637.83	0.1045	P	1.7	-0.5
5	☐	100.000	99.668	935667.04	0.9647	M	2.6	-0.3
6	☐	200.000	200.176	1869980.13	1.9285	A	2.0	0.1

y = 0.0096 * x + 0.0090
R = 1.0000
DL = 0.03085 ppb
BEC = 0.9426 ppb

Weight: <None>
Min Conc: <None>

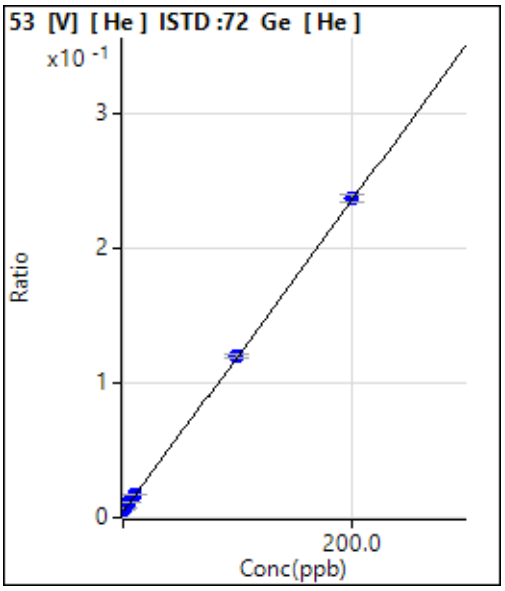


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	305748.07	0.0838	P	0.6	
2	☐	2.000	6.661	324325.33	0.0894	P	1.1	233.1
3	☐	5.000	15.479	345330.51	0.0968	P	1.2	209.6
4	☐	10.000	25.205	369413.37	0.1050	P	2.4	152.0
5	☐	100.000	86.872	532129.78	0.1567	P	3.1	-13.1
6	☐	200.000	205.495	849012.41	0.2562	P	2.6	2.7

y = 8.3849E-004 * x + 0.0838
R = 0.9930
DL = 1.658 ppb
BEC = 100 ppb

Weight: <None>
Min Conc: <None>

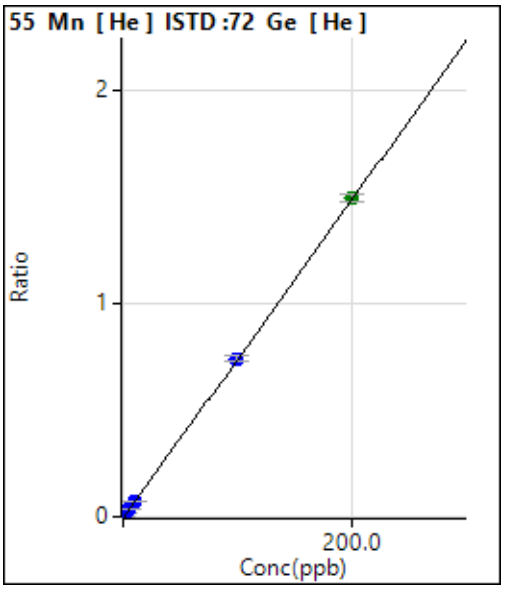
Calibration for 140_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5747.97	0.0055	P	4.2	
2	☐	2.000	1.936	8065.82	0.0077	P	1.8	-3.2
3	☐	5.000	4.901	11508.30	0.0111	P	1.7	-2.0
4	☐	10.000	10.211	17618.15	0.0173	P	6.7	2.1
5	☐	100.000	98.990	116197.83	0.1198	P	2.3	-1.0
6	☐	200.000	200.498	229853.61	0.2370	P	2.4	0.2

y = 0.0012 * x + 0.0055
R = 1.0000
DL = 0.5962 ppb
BEC = 4.733 ppb

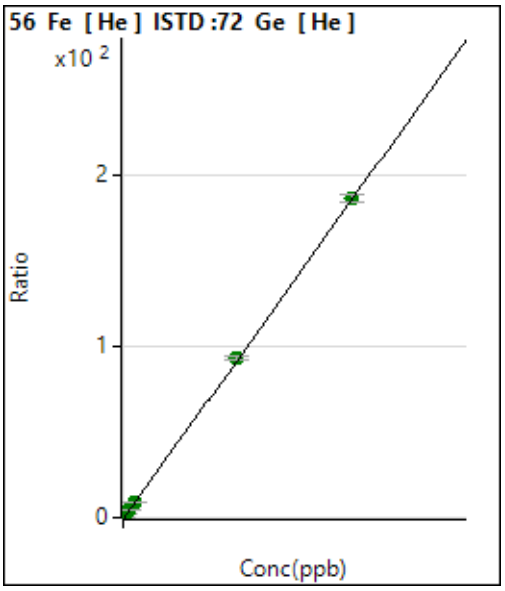
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	726.70	0.0007	P	8.6	
2	☐	2.000	1.820	14958.28	0.0143	P	1.2	-9.0
3	☐	5.000	4.776	37594.95	0.0364	P	2.1	-4.5
4	☐	10.000	9.748	75009.68	0.0735	P	2.0	-2.5
5	☐	100.000	99.354	720131.50	0.7425	P	2.8	-0.6
6	☐	200.000	200.343	1451115.91	1.4966	A	2.5	0.2

y = 0.0075 * x + 6.9108E-004
R = 1.0000
DL = 0.02387 ppb
BEC = 0.09255 ppb

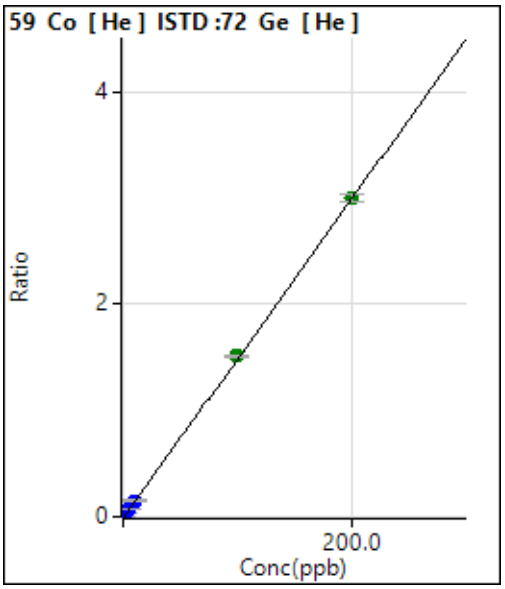
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	17014.07	0.0162	P	0.4	
2	☐	200.000	183.589	1805418.72	1.7241	A	2.8	-8.2
3	☐	500.000	476.693	4602724.41	4.4509	A	1.6	-4.7
4	☐	1000.000	993.113	9448265.69	9.2552	A	1.4	-0.7
5	☐	10000.00	9989.267	90143201.99	92.9477	A	2.5	-0.1
6	☐	20000.00	20006.45	180487183.9	186.139	A	2.3	0.0

y = 0.0093 * x + 0.0162
R = 1.0000
DL = 0.0221 ppb
BEC = 1.739 ppb

Weight: <None>
Min Conc: <None>

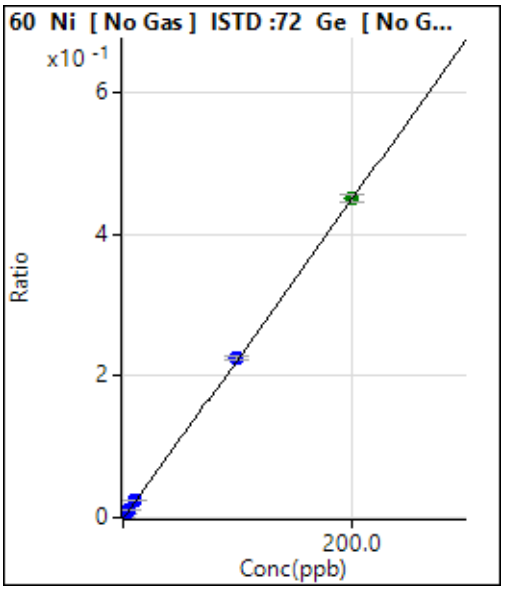


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	476.68	0.0005	P	10.6	
2	☐	2.000	1.806	28900.54	0.0276	P	2.1	-9.7
3	☐	5.000	4.802	75114.60	0.0726	P	2.7	-4.0
4	☐	10.000	10.128	155856.56	0.1527	P	1.6	1.3
5	☐	100.000	100.727	1468712.95	1.5143	A	1.5	0.7
6	☐	200.000	199.637	2909683.60	3.0009	A	2.8	-0.2

y = 0.0150 * x + 4.5345E-004
R = 1.0000
DL = 0.009553 ppb
BEC = 0.03017 ppb

Weight: <None>
Min Conc: <None>

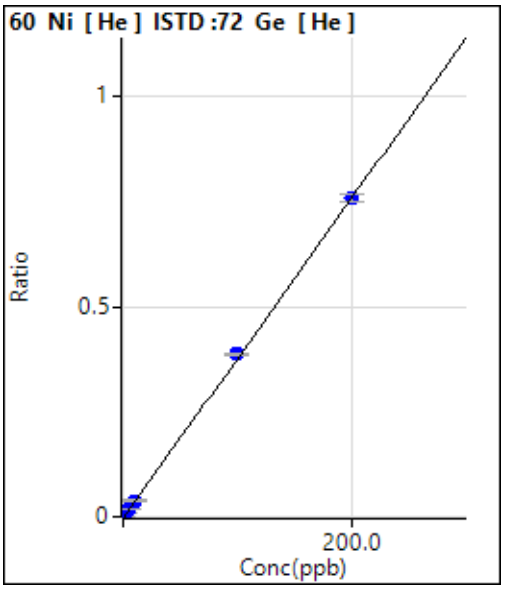
Calibration for 140_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1276.75	0.0004	P	10.2	
2	☐	2.000	2.010	17694.91	0.0049	P	4.1	0.5
3	☐	5.000	5.102	42251.83	0.0118	P	2.2	2.0
4	☐	10.000	10.325	83099.39	0.0236	P	2.6	3.3
5	☐	100.000	100.266	768430.48	0.2263	P	2.5	0.3
6	☐	200.000	199.848	1493604.09	0.4506	A	2.6	-0.1

y = 0.0023 * x + 3.5020E-004
R = 1.0000
DL = 0.04778 ppb
BEC = 0.1554 ppb

Weight: <None>
Min Conc: <None>

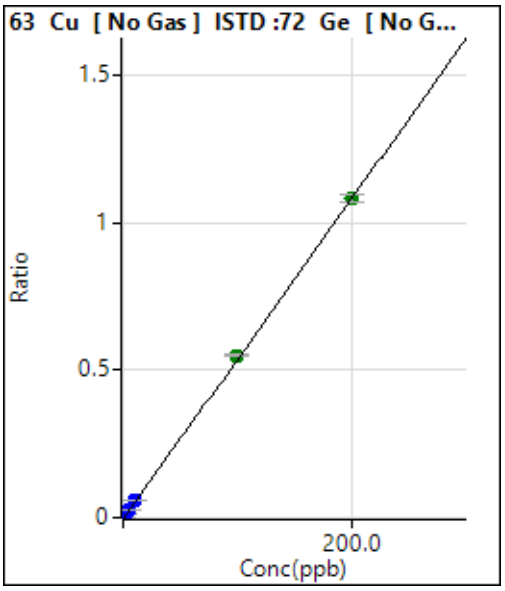


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	273.34	0.0003	P	23.8	
2	☐	2.000	1.859	7695.60	0.0073	P	4.4	-7.1
3	☐	5.000	5.023	20071.57	0.0194	P	4.2	0.5
4	☐	10.000	10.127	39680.93	0.0389	P	1.1	1.3
5	☐	100.000	101.765	376592.83	0.3883	P	1.0	1.8
6	☐	200.000	199.112	736351.86	0.7594	P	3.0	-0.4

y = 0.0038 * x + 2.6008E-004
R = 0.9999
DL = 0.04861 ppb
BEC = 0.06821 ppb

Weight: <None>
Min Conc: <None>

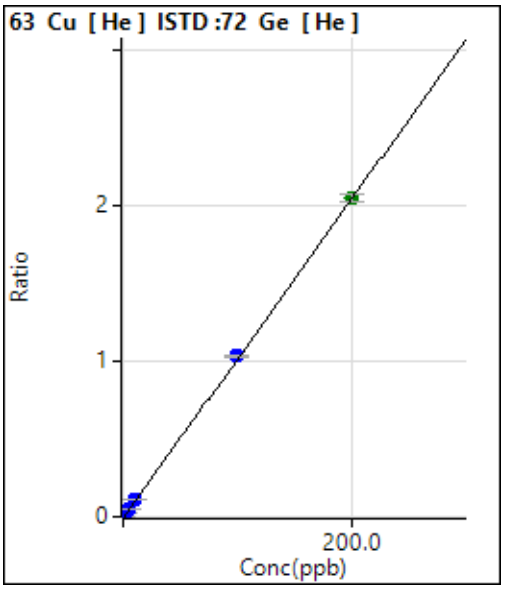
Calibration for 140_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1720.14	0.0005	P	3.1	
2	☐	2.000	2.097	43071.06	0.0119	P	1.4	4.9
3	☐	5.000	5.175	102067.18	0.0286	P	1.2	3.5
4	☐	10.000	10.391	200512.21	0.0570	P	2.4	3.9
5	☐	100.000	101.386	1874150.55	0.5518	A	2.0	1.4
6	☐	200.000	199.282	3593687.55	1.0842	A	2.1	-0.4

y = 0.0054 * x + 4.7176E-004
R = 1.0000
DL = 0.008055 ppb
BEC = 0.08675 ppb

Weight: <None>
Min Conc: <None>

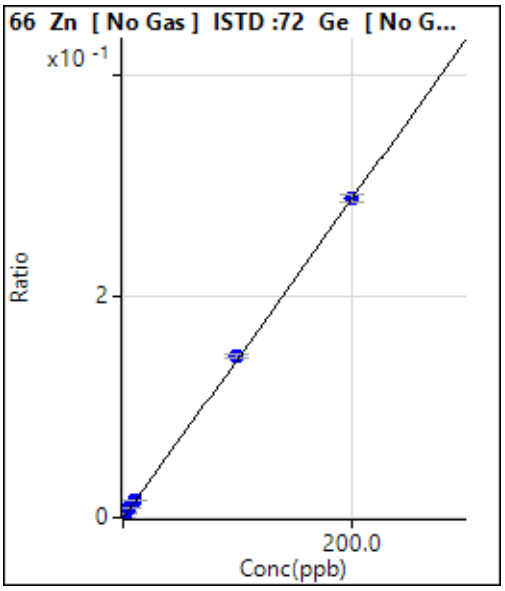


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	636.70	0.0006	P	17.6	
2	☐	2.000	1.920	21286.71	0.0203	P	1.5	-4.0
3	☐	5.000	5.006	53798.75	0.0520	P	3.3	0.1
4	☐	10.000	10.267	108260.04	0.1061	P	1.1	2.7
5	☐	100.000	100.544	1002080.51	1.0332	P	0.8	0.5
6	☐	200.000	199.715	1989361.22	2.0517	A	2.6	-0.1

y = 0.0103 * x + 6.0565E-004
R = 1.0000
DL = 0.03114 ppb
BEC = 0.05897 ppb

Weight: <None>
Min Conc: <None>

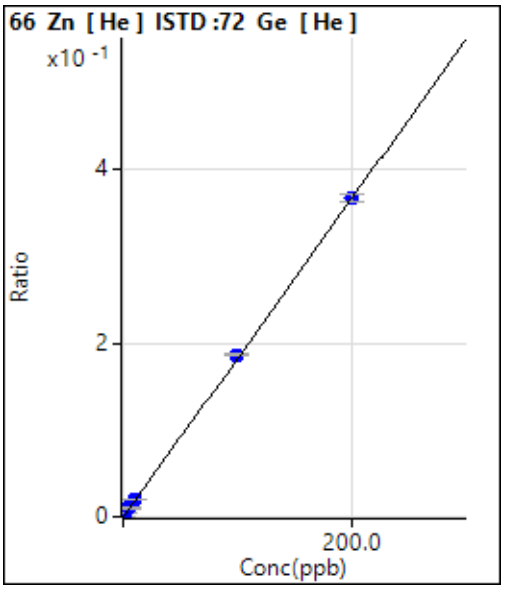
Calibration for 140_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2747.00	0.0008	P	2.7	
2	☐	2.000	2.469	15642.52	0.0043	P	5.4	23.5
3	☐	5.000	5.190	29368.43	0.0082	P	2.1	3.8
4	☐	10.000	10.188	54330.92	0.0154	P	1.7	1.9
5	☐	100.000	100.839	496222.88	0.1461	P	1.7	0.8
6	☐	200.000	199.562	955953.26	0.2884	P	2.4	-0.2

y = 0.0014 * x + 7.5337E-004
R = 1.0000
DL = 0.04282 ppb
BEC = 0.5226 ppb

Weight: <None>
Min Conc: <None>

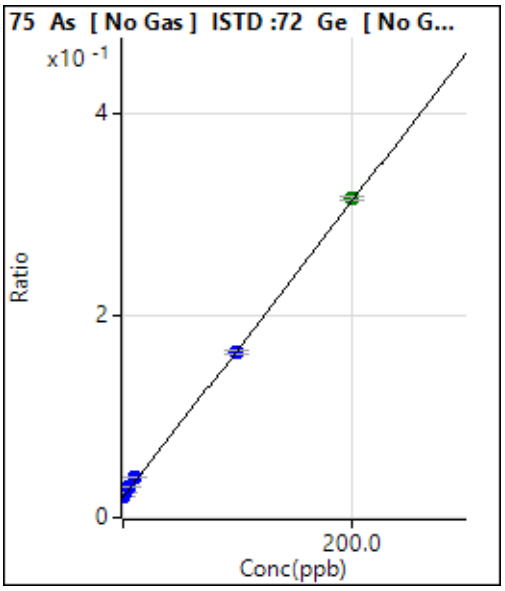


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1103.40	0.0010	P	4.6	
2	☐	2.000	2.115	5161.05	0.0049	P	5.2	5.8
3	☐	5.000	4.957	10490.85	0.0101	P	4.7	-0.9
4	☐	10.000	10.318	20395.45	0.0200	P	1.1	3.2
5	☐	100.000	101.088	180879.80	0.1865	P	0.5	1.1
6	☐	200.000	199.440	355802.53	0.3669	P	2.6	-0.3

y = 0.0018 * x + 0.0010
R = 1.0000
DL = 0.07876 ppb
BEC = 0.572 ppb

Weight: <None>
Min Conc: <None>

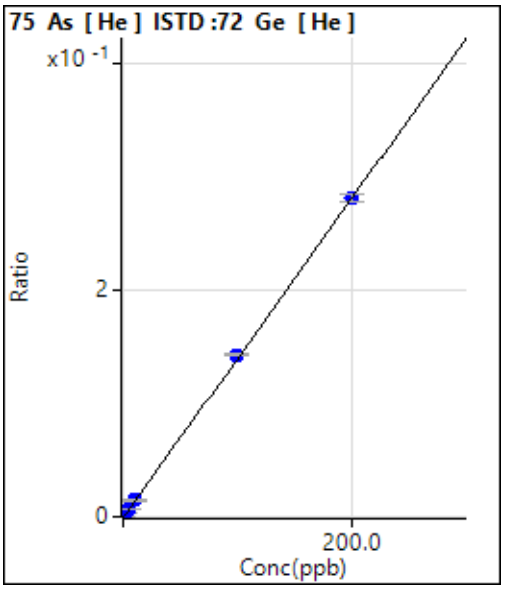
Calibration for 140_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	78944.74	0.0216	P	1.0	
2	☐	2.000	2.654	92630.33	0.0255	P	1.2	32.7
3	☐	5.000	6.309	110222.10	0.0309	P	0.9	26.2
4	☐	10.000	12.432	140369.70	0.0399	P	2.1	24.3
5	☐	100.000	97.338	558562.32	0.1645	P	2.6	-2.7
6	☐	200.000	201.170	1050143.39	0.3168	A	1.3	0.6

y = 0.0015 * x + 0.0216
R = 0.9998
DL = 0.423 ppb
BEC = 14.75 ppb

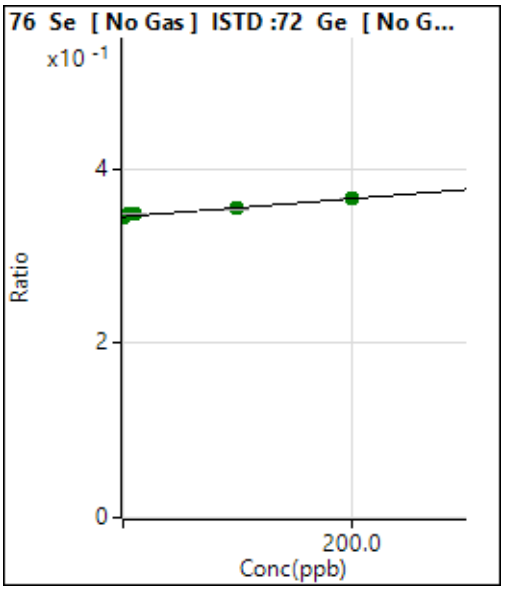
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	410.01	0.0004	P	5.7	
2	☐	2.000	1.778	3035.91	0.0029	P	5.3	-11.1
3	☐	5.000	4.792	7396.48	0.0072	P	2.5	-4.2
4	☐	10.000	9.947	14730.21	0.0144	P	4.0	-0.5
5	☐	100.000	101.319	139044.84	0.1434	P	1.7	1.3
6	☐	200.000	199.350	273165.88	0.2817	P	2.7	-0.3

y = 0.0014 * x + 3.9001E-004
R = 1.0000
DL = 0.04714 ppb
BEC = 0.2764 ppb

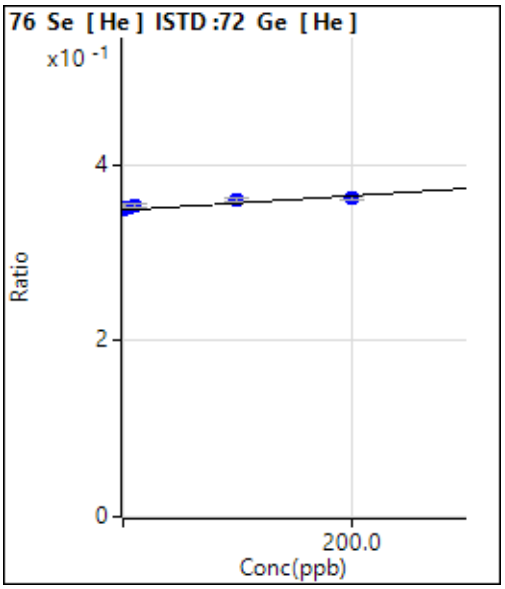
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1259563.94	0.3454	A	0.6	
2	☐	2.000	4.398	1254367.24	0.3459	A	0.7	119.9
3	☐	5.000	27.806	1242312.33	0.3483	A	0.2	456.1
4	☐	10.000	41.566	1230978.50	0.3498	A	0.1	315.7
5	☐	100.000	90.143	1205194.02	0.3549	A	0.6	-9.9
6	☐	200.000	202.756	1215354.33	0.3666	A	0.2	1.4

y = 1.0468E-004 * x + 0.3454
R = 0.9826
DL = 57.59 ppb
BEC = 3300 ppb

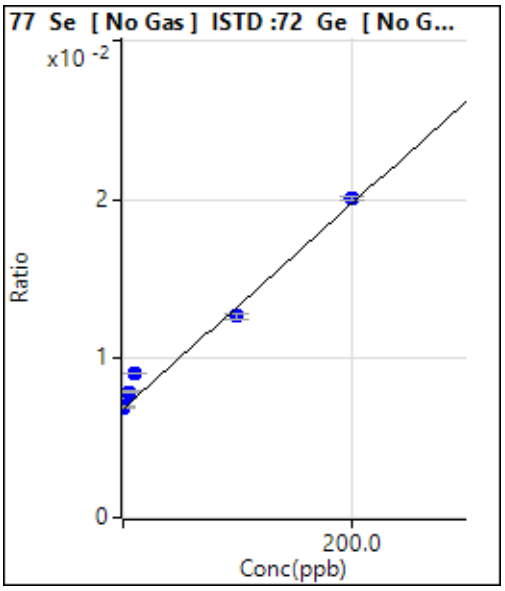
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	366481.23	0.3486	P	1.1	
2	☐	2.000	48.090	369229.85	0.3526	P	1.5	2304.5
3	☐	5.000	36.512	363563.47	0.3516	P	1.1	630.2
4	☐	10.000	66.945	361524.51	0.3541	P	0.9	569.4
5	☐	100.000	154.505	350501.39	0.3614	P	1.2	54.5
6	☐	200.000	168.652	351611.58	0.3626	P	1.3	-15.7

y = 8.3210E-005 * x + 0.3486
R = 0.9063
DL = 135.9 ppb
BEC = 4189 ppb

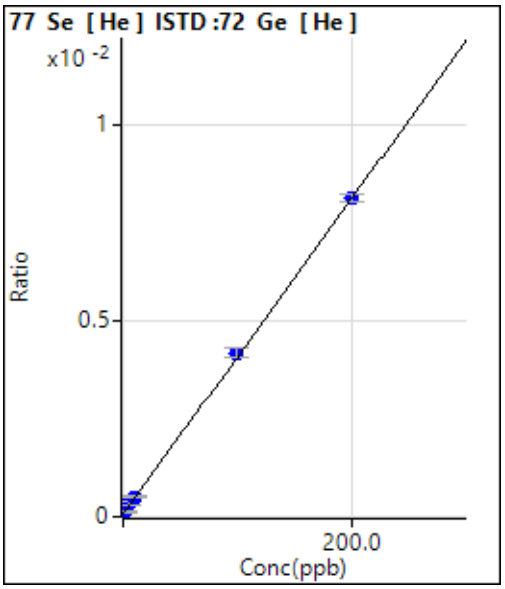
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	25327.12	0.0069	P	0.3	
2	☐	2.000	9.861	27488.06	0.0076	P	1.8	393.0
3	☐	5.000	14.315	28049.40	0.0079	P	1.5	186.3
4	☐	10.000	32.965	31894.33	0.0091	P	1.0	229.6
5	☐	100.000	88.673	42934.63	0.0126	P	2.5	-11.3
6	☐	200.000	204.204	66498.56	0.0201	P	1.1	2.1

y = 6.4230E-005 * x + 0.0069
R = 0.9910
DL = 1.081 ppb
BEC = 108.1 ppb

Weight: <None>
Min Conc: <None>

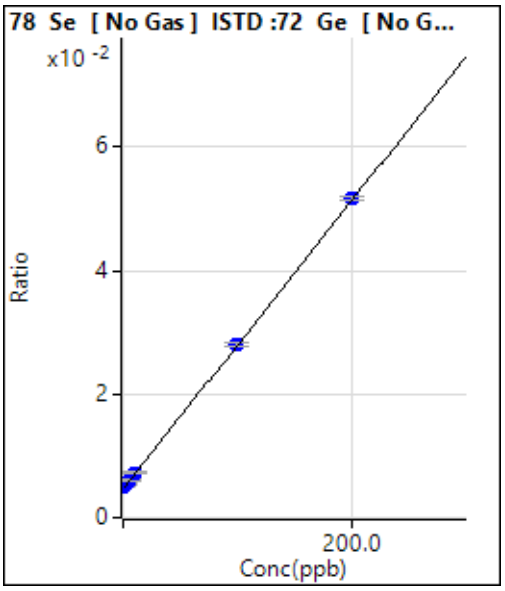


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	113.34	0.0001	P	54.3	
2	☐	2.000	0.708	143.34	0.0001	P	44.2	-64.6
3	☐	5.000	5.878	356.68	0.0003	P	18.0	17.6
4	☐	10.000	9.879	516.69	0.0005	P	6.1	-1.2
5	☐	100.000	101.057	4057.35	0.0042	P	5.6	1.1
6	☐	200.000	199.469	7902.42	0.0082	P	2.8	-0.3

y = 4.0319E-005 * x + 1.0794E-004
R = 0.9999
DL = 4.361 ppb
BEC = 2.677 ppb

Weight: <None>
Min Conc: <None>

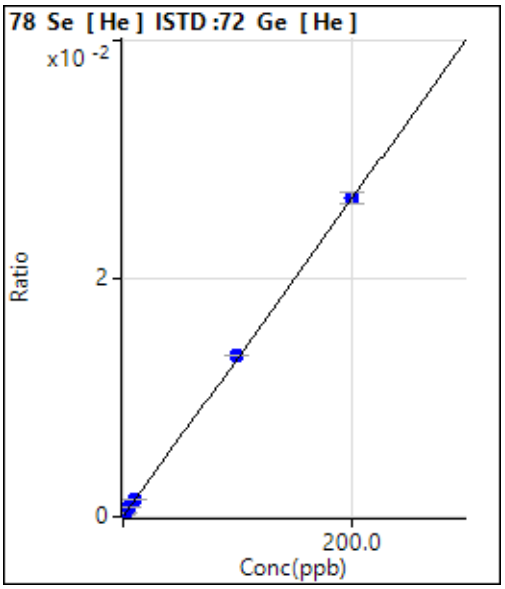
Calibration for 140_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	17938.70	0.0049	P	2.2	
2	☐	2.000	2.233	19727.93	0.0054	P	1.5	11.6
3	☐	5.000	4.687	21440.55	0.0060	P	2.3	-6.3
4	☐	10.000	10.216	25691.13	0.0073	P	3.2	2.2
5	☐	100.000	98.802	94946.15	0.0280	P	2.2	-1.2
6	☐	200.000	200.594	171336.94	0.0517	P	1.7	0.3

y = 2.3317E-004 * x + 0.0049
R = 1.0000
DL = 1.385 ppb
BEC = 21.1 ppb

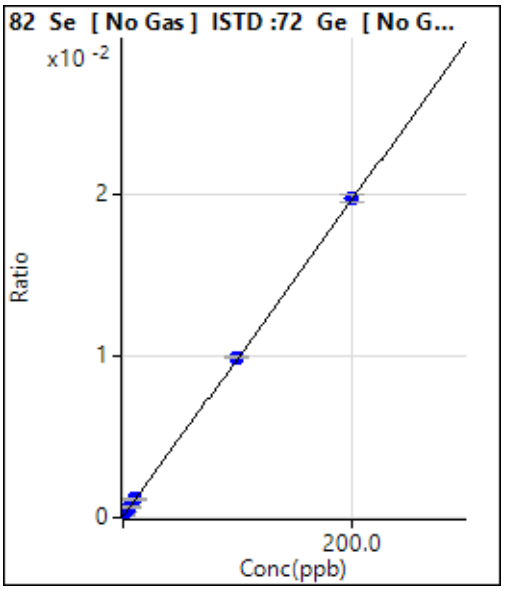
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	147.33	0.0001	P	28.0	
2	☐	2.000	1.709	385.34	0.0004	P	3.2	-14.5
3	☐	5.000	4.697	792.69	0.0008	P	7.5	-6.1
4	☐	10.000	9.558	1444.08	0.0014	P	3.2	-4.4
5	☐	100.000	100.808	13173.03	0.0136	P	0.2	0.8
6	☐	200.000	199.628	25942.65	0.0268	P	4.2	-0.2

y = 1.3334E-004 * x + 1.4015E-004
R = 1.0000
DL = 0.8815 ppb
BEC = 1.051 ppb

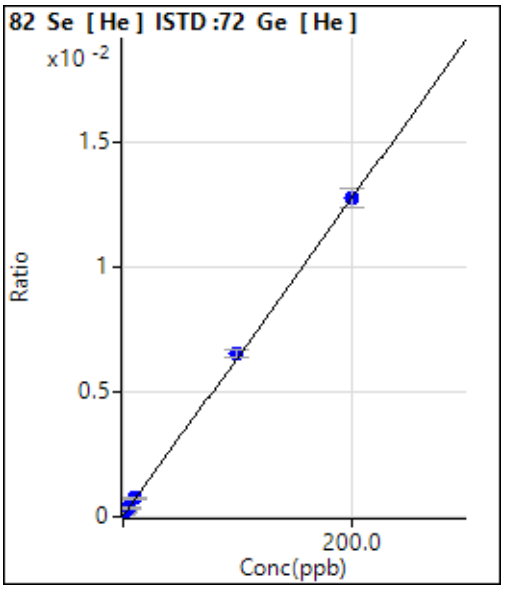
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	626.70	0.0002	P	18.5	
2	☐	2.000	2.006	1333.43	0.0004	P	12.0	0.3
3	☐	5.000	4.866	2306.90	0.0006	P	2.9	-2.7
4	☐	10.000	10.165	4094.02	0.0012	P	9.7	1.7
5	☐	100.000	99.620	33601.89	0.0099	P	1.3	-0.4
6	☐	200.000	200.185	65326.83	0.0197	P	2.2	0.1

y = 9.7590E-005 * x + 1.7197E-004
R = 1.0000
DL = 0.9754 ppb
BEC = 1.762 ppb

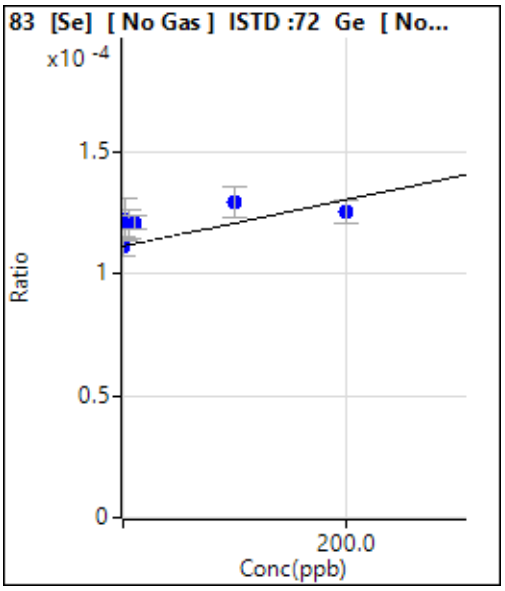
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	100.00	0.0001	P	9.7	
2	☐	2.000	1.916	226.67	0.0002	P	27.7	-4.2
3	☐	5.000	3.976	360.01	0.0003	P	19.4	-20.5
4	☐	10.000	10.265	763.37	0.0007	P	10.9	2.6
5	☐	100.000	101.499	6348.26	0.0065	P	4.6	1.5
6	☐	200.000	199.264	12372.50	0.0128	P	5.9	-0.4

y = 6.3575E-005 * x + 9.5091E-005
R = 0.9999
DL = 0.4342 ppb
BEC = 1.496 ppb

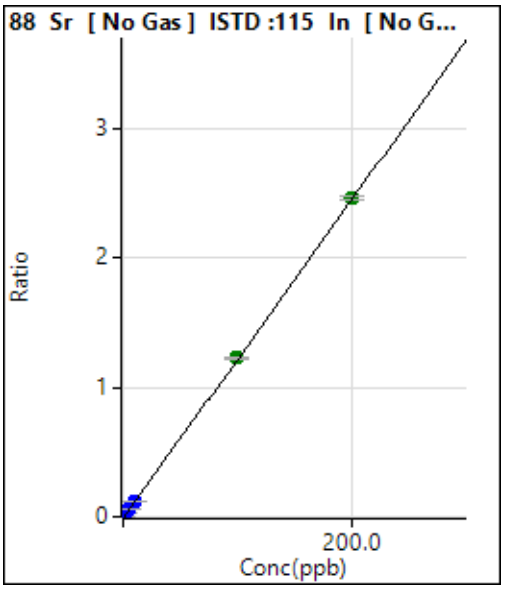
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	406.68	0.0001	P	7.4	
2	☐	2.000	112.119	443.35	0.0001	P	14.4	5506.0
3	☐	5.000	94.532	430.01	0.0001	P	10.1	1790.6
4	☐	10.000	101.445	426.68	0.0001	P	4.7	914.4
5	☐	100.000	188.560	440.02	0.0001	P	10.3	88.6
6	☐	200.000	147.808	416.68	0.0001	P	7.4	-26.1

y = 9.5946E-008 * x + 1.1150E-004
R = 0.6227
DL = 259.1 ppb
BEC = 1162 ppb

Weight: <None>
Min Conc: <None>

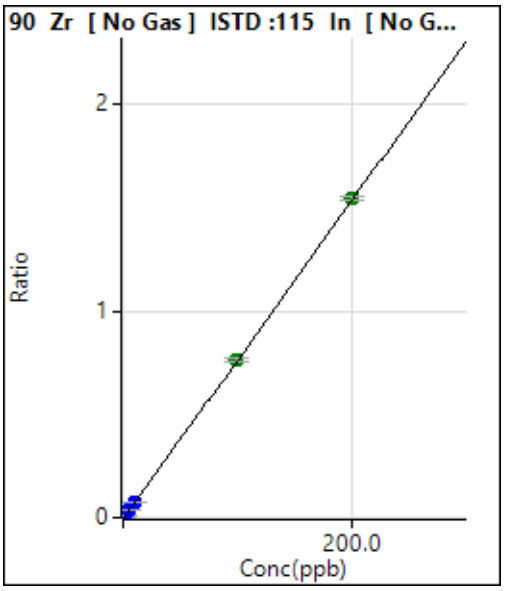


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3243.79	0.0006	P	2.4	
2	☐	2.000	1.891	121575.82	0.0239	P	2.9	-5.5
3	☐	5.000	4.814	297238.57	0.0598	P	2.9	-3.7
4	☐	10.000	9.788	598141.36	0.1209	P	1.3	-2.1
5	☐	100.000	99.672	5841576.58	1.2258	A	1.8	-0.3
6	☐	200.000	200.180	11477721.91	2.4614	A	1.3	0.1

y = 0.0123 * x + 6.3032E-004
R = 1.0000
DL = 0.003626 ppb
BEC = 0.05128 ppb

Weight: <None>
Min Conc: <None>

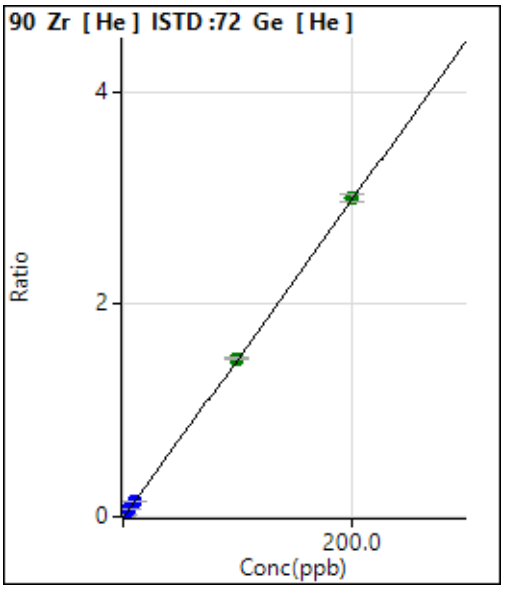
Calibration for 140_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1643.48	0.0003	P	3.6	
2	☐	2.000	1.530	61644.08	0.0121	P	2.9	-23.5
3	☐	5.000	4.318	166883.04	0.0336	P	2.5	-13.6
4	☐	10.000	9.245	353780.02	0.0715	P	1.5	-7.6
5	☐	100.000	99.045	3637456.72	0.7633	A	1.8	-1.0
6	☐	200.000	200.537	7205272.81	1.5452	A	1.0	0.3

y = 0.0077 * x + 3.1937E-004
R = 1.0000
DL = 0.004508 ppb
BEC = 0.04146 ppb

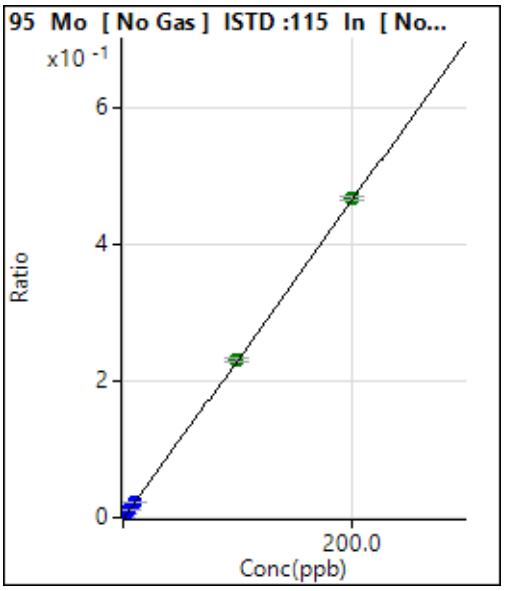
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1756.81	0.0017	P	4.5	
2	☐	2.000	1.493	25133.68	0.0240	P	4.4	-25.3
3	☐	5.000	4.231	67156.83	0.0649	P	4.1	-15.4
4	☐	10.000	9.130	141066.41	0.1382	P	2.0	-8.7
5	☐	100.000	99.181	1439931.75	1.4848	A	1.4	-0.8
6	☐	200.000	200.477	2908314.44	2.9995	A	2.8	0.2

y = 0.0150 * x + 0.0017
R = 1.0000
DL = 0.01499 ppb
BEC = 0.1117 ppb

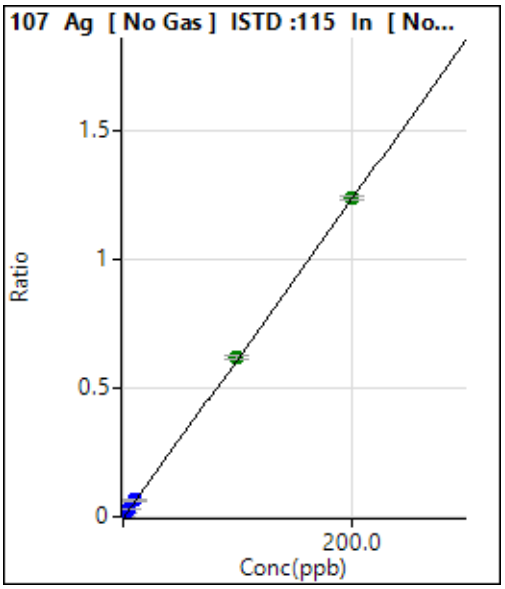
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	186.67	0.0000	P	32.4	
2	☐	2.000	1.906	22796.24	0.0045	P	5.3	-4.7
3	☐	5.000	4.857	56414.97	0.0114	P	3.5	-2.9
4	☐	10.000	10.011	115525.56	0.0234	P	3.4	0.1
5	☐	100.000	98.826	1097333.92	0.2303	A	2.4	-1.2
6	☐	200.000	200.591	2179323.67	0.4674	A	0.9	0.3

y = 0.0023 * x + 3.6244E-005
R = 1.0000
DL = 0.01512 ppb
BEC = 0.01556 ppb

Weight: <None>
Min Conc: <None>

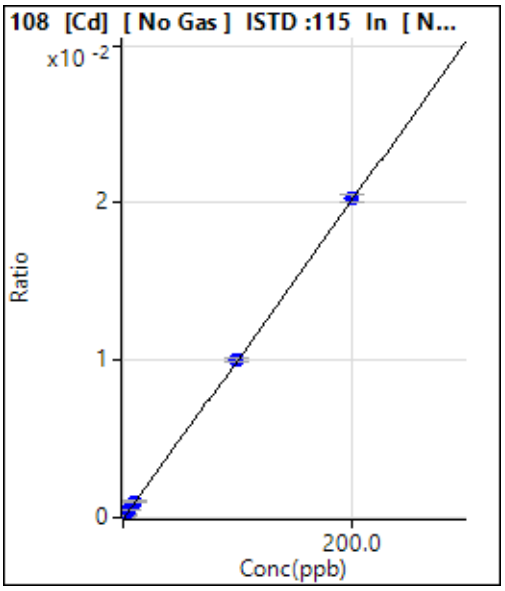


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	370.01	0.0001	P	12.1	
2	☐	2.000	1.991	63075.50	0.0124	P	2.8	-0.4
3	☐	5.000	5.051	155559.92	0.0313	P	1.9	1.0
4	☐	10.000	10.310	315587.03	0.0638	P	2.2	3.1
5	☐	100.000	100.027	2947292.25	0.6185	A	1.7	0.0
6	☐	200.000	199.970	5765372.41	1.2364	A	1.3	0.0

y = 0.0062 * x + 7.1920E-005
R = 1.0000
DL = 0.004233 ppb
BEC = 0.01163 ppb

Weight: <None>
Min Conc: <None>

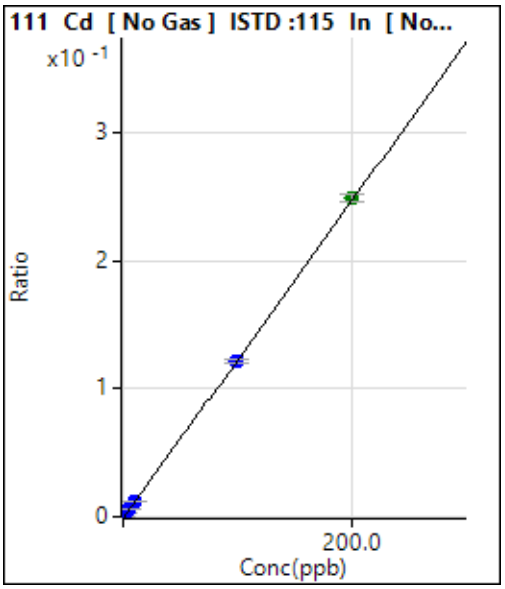
Calibration for 140_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	13.33	0.0000	P	86.6	
2	☐	2.000	1.961	1023.40	0.0002	P	17.8	-1.9
3	☐	5.000	5.047	2550.31	0.0005	P	3.1	0.9
4	☐	10.000	10.091	5061.05	0.0010	P	7.2	0.9
5	☐	100.000	98.947	47708.71	0.0100	P	1.9	-1.1
6	☐	200.000	200.521	94607.17	0.0203	P	2.5	0.3

y = 1.0116E-004 * x + 2.5896E-006
R = 1.0000
DL = 0.06651 ppb
BEC = 0.0256 ppb

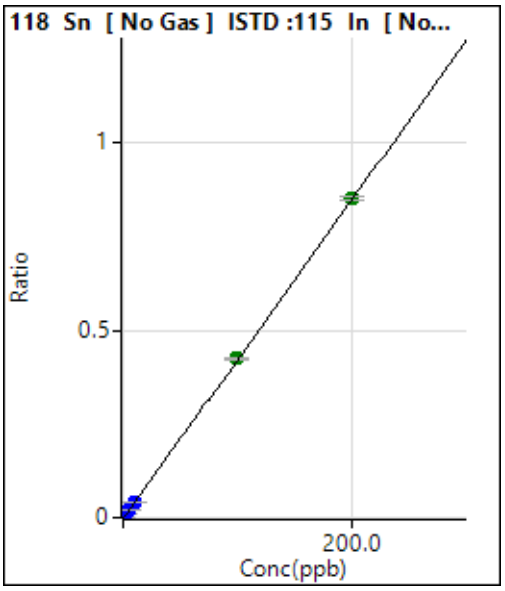
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	-0.97	0.0000	P	-2100.	
2	☐	2.000	1.896	11948.48	0.0023	P	7.1	-5.2
3	☐	5.000	4.998	30742.46	0.0062	P	3.3	0.0
4	☐	10.000	9.862	60368.26	0.0122	P	1.0	-1.4
5	☐	100.000	98.072	578468.91	0.1214	P	2.0	-1.9
6	☐	200.000	200.972	1160024.12	0.2488	A	2.0	0.5

y = 0.0012 * x - 1.9229E-007
R = 0.9999
DL = 0.009788 ppb
BEC = -0.0001553 ppb

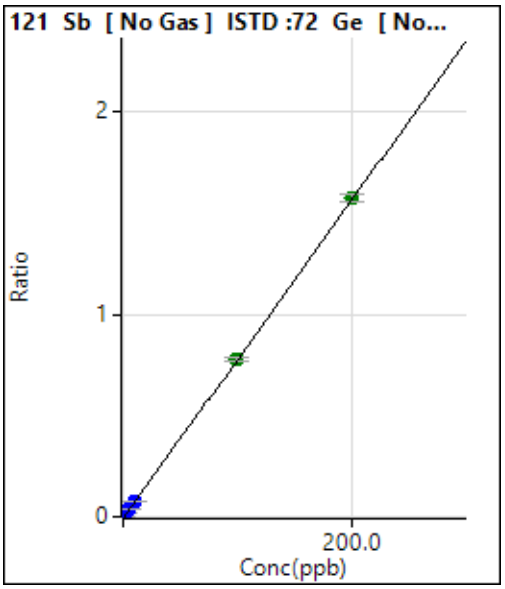
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6208.23	0.0012	P	10.1	
2	☐	2.000	1.930	47916.62	0.0094	P	2.9	-3.5
3	☐	5.000	4.911	109703.60	0.0221	P	2.7	-1.8
4	☐	10.000	9.865	213280.86	0.0431	P	1.2	-1.4
5	☐	100.000	99.758	2025766.32	0.4251	A	1.4	-0.2
6	☐	200.000	200.131	3971292.65	0.8516	A	1.5	0.1

y = 0.0042 * x + 0.0012
R = 1.0000
DL = 0.08604 ppb
BEC = 0.284 ppb

Weight: <None>
Min Conc: <None>

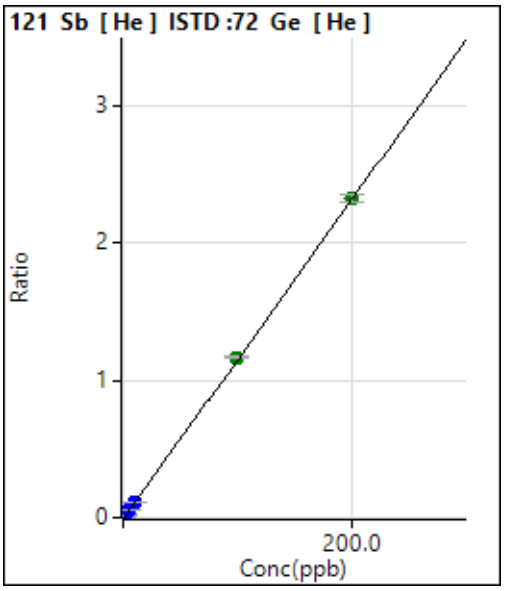


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	703.36	0.0002	P	4.7	
2	☐	2.000	1.887	54475.33	0.0150	P	0.3	-5.7
3	☐	5.000	4.871	137223.71	0.0385	P	1.7	-2.6
4	☐	10.000	9.875	273761.82	0.0778	P	2.2	-1.2
5	☐	100.000	99.131	2646404.39	0.7792	A	2.2	-0.9
6	☐	200.000	200.445	5221636.07	1.5754	A	2.3	0.2

y = 0.0079 * x + 1.9291E-004
R = 1.0000
DL = 0.003448 ppb
BEC = 0.02455 ppb

Weight: <None>
Min Conc: <None>

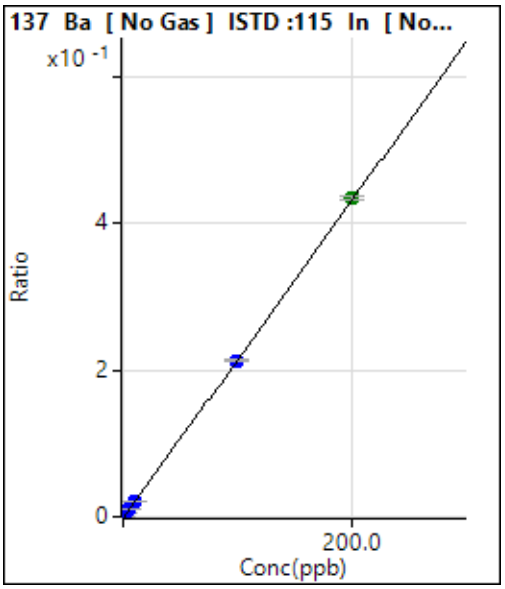
Calibration for 140_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	333.34	0.0003	P	22.2	
2	☐	2.000	1.797	22202.22	0.0212	P	2.0	-10.2
3	☐	5.000	4.737	57270.27	0.0554	P	0.6	-5.3
4	☐	10.000	9.812	116754.38	0.1144	P	2.3	-1.9
5	☐	100.000	100.109	1128856.18	1.1640	A	1.4	0.1
6	☐	200.000	199.963	2254087.41	2.3247	A	2.2	0.0

y = 0.0116 * x + 3.1689E-004
R = 1.0000
DL = 0.01817 ppb
BEC = 0.02726 ppb

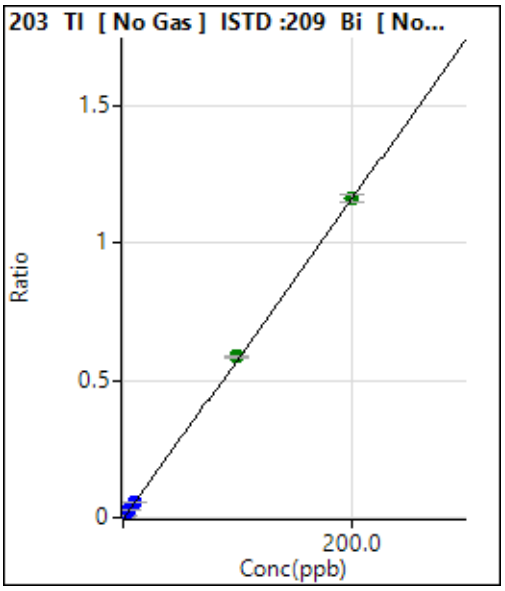
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	813.37	0.0002	P	7.2	
2	☐	2.000	2.109	24028.92	0.0047	P	1.4	5.5
3	☐	5.000	4.877	53174.64	0.0107	P	2.1	-2.5
4	☐	10.000	9.835	105908.60	0.0214	P	1.1	-1.7
5	☐	100.000	98.443	1014679.88	0.2129	P	1.2	-1.6
6	☐	200.000	200.789	2024538.35	0.4341	A	1.4	0.4

y = 0.0022 * x + 1.5806E-004
R = 1.0000
DL = 0.01589 ppb
BEC = 0.07313 ppb

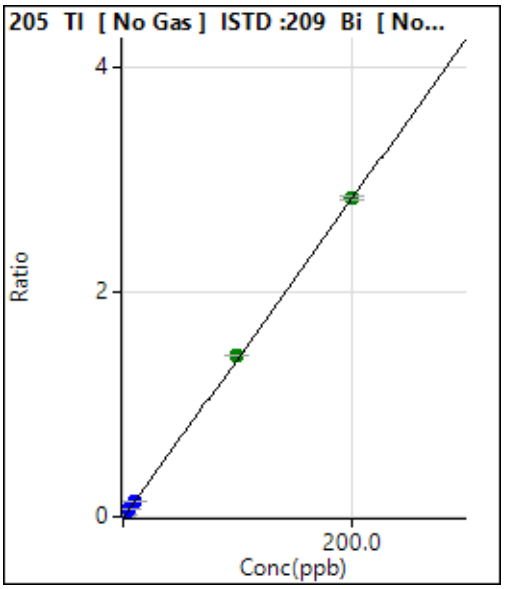
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	730.04	0.0001	P	15.1	
2	☐	2.000	1.652	53607.41	0.0098	P	0.6	-17.4
3	☐	5.000	4.842	152701.87	0.0284	P	0.3	-3.2
4	☐	10.000	9.457	296169.43	0.0552	P	1.2	-5.4
5	☐	100.000	100.622	3027705.58	0.5865	A	0.6	0.6
6	☐	200.000	199.724	5874836.16	1.1641	A	2.2	-0.1

y = 0.0058 * x + 1.3153E-004
R = 1.0000
DL = 0.01024 ppb
BEC = 0.02257 ppb

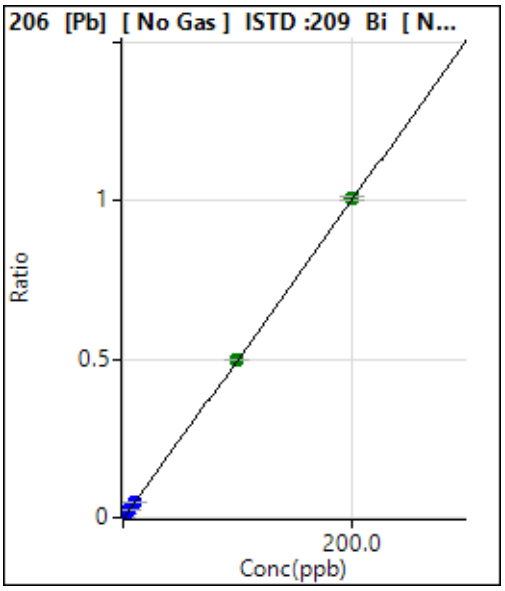
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1996.86	0.0004	P	6.0	
2	☐	2.000	1.634	129578.22	0.0236	P	3.2	-18.3
3	☐	5.000	4.699	361702.04	0.0672	P	1.9	-6.0
4	☐	10.000	9.227	705021.99	0.1315	P	0.9	-7.7
5	☐	100.000	100.820	7399073.85	1.4334	A	0.7	0.8
6	☐	200.000	199.640	14322744.79	2.8379	A	1.7	-0.2

y = 0.0142 * x + 3.5987E-004
R = 1.0000
DL = 0.004558 ppb
BEC = 0.02532 ppb

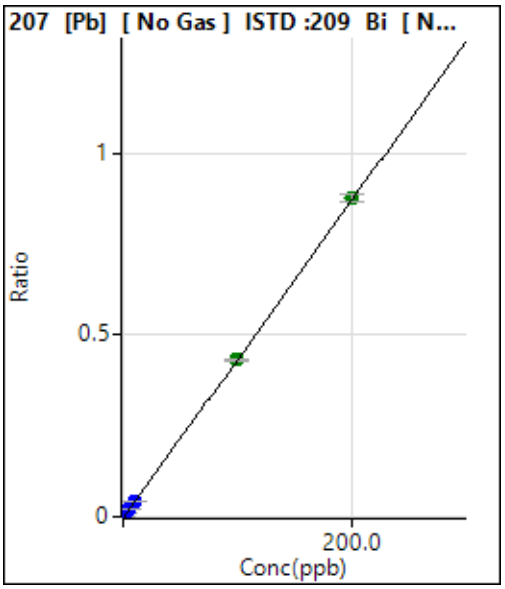
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1213.43	0.0002	P	17.3	
2	☐	2.000	1.893	53503.70	0.0097	P	2.2	-5.3
3	☐	5.000	4.873	133113.80	0.0247	P	1.9	-2.5
4	☐	10.000	9.940	269069.84	0.0502	P	0.8	-0.6
5	☐	100.000	99.279	2577457.46	0.4993	A	0.5	-0.7
6	☐	200.000	200.368	5084786.38	1.0075	A	1.5	0.2

y = 0.0050 * x + 2.1879E-004
R = 1.0000
DL = 0.02254 ppb
BEC = 0.04352 ppb

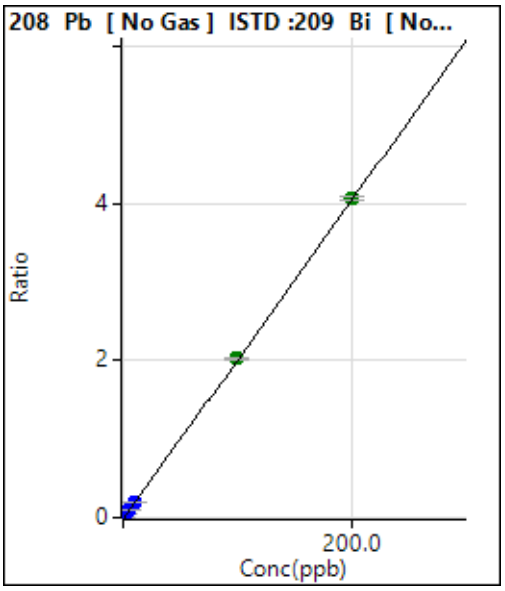
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1096.81	0.0002	P	13.2	
2	☐	2.000	1.871	46014.07	0.0084	P	0.7	-6.4
3	☐	5.000	4.952	117636.39	0.0218	P	1.0	-1.0
4	☐	10.000	9.948	234132.76	0.0437	P	1.1	-0.5
5	☐	100.000	98.923	2232702.21	0.4325	A	1.1	-1.1
6	☐	200.000	200.543	4424276.08	0.8766	A	1.9	0.3

y = 0.0044 * x + 1.9776E-004
R = 1.0000
DL = 0.01794 ppb
BEC = 0.04525 ppb

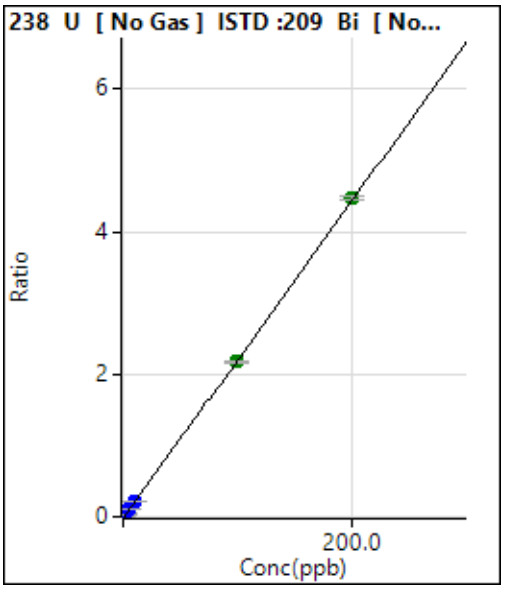
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4787.19	0.0009	P	8.1	
2	☐	2.000	1.872	213589.44	0.0389	P	2.1	-6.4
3	☐	5.000	4.840	534140.95	0.0992	P	1.3	-3.2
4	☐	10.000	9.814	1073244.63	0.2002	P	0.8	-1.9
5	☐	100.000	99.517	10438210.00	2.0221	A	1.1	-0.5
6	☐	200.000	200.256	20531264.80	4.0681	A	1.7	0.1

y = 0.0203 * x + 8.6300E-004
R = 1.0000
DL = 0.01029 ppb
BEC = 0.04249 ppb

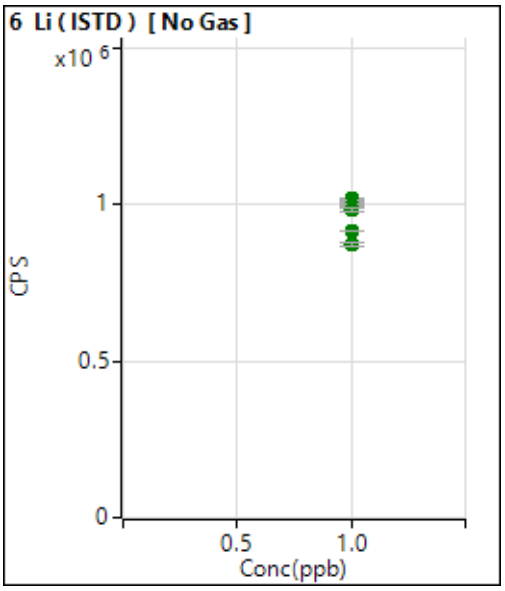
Weight: <None>
Min Conc: <None>



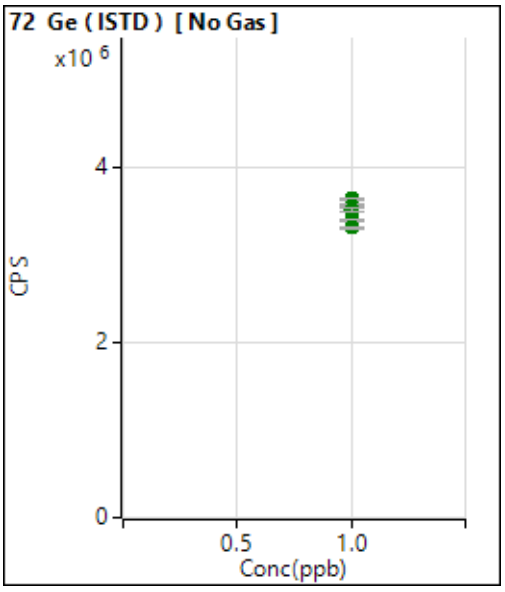
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3160.47	0.0006	P	6.0	
2	☐	2.000	1.778	220531.44	0.0401	P	2.0	-11.1
3	☐	5.000	4.627	557513.72	0.1035	P	2.1	-7.5
4	☐	10.000	9.359	1119490.77	0.2088	P	1.0	-6.4
5	☐	100.000	98.013	11260761.50	2.1814	A	1.3	-2.0
6	☐	200.000	201.037	22578060.50	4.4737	A	1.7	0.5

y = 0.0223 * x + 5.6967E-004
R = 0.9999
DL = 0.004613 ppb
BEC = 0.0256 ppb

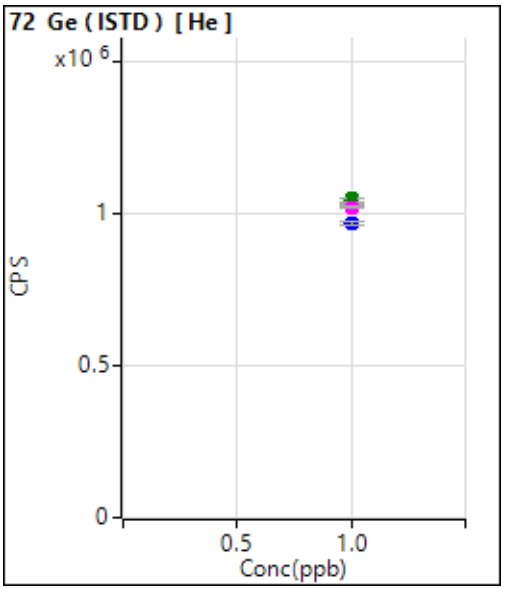
Weight: <None>
Min Conc: <None>



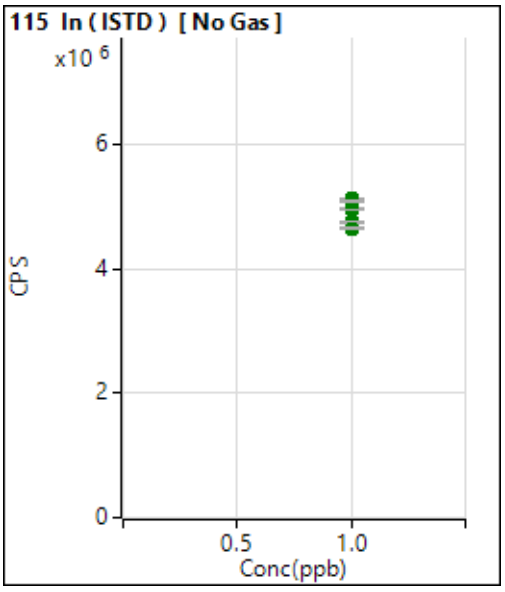
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1020039.89		A	0.1	
2	☐	1.000		1010092.07		A	0.4	
3	☐	1.000		997164.74		A	0.4	
4	☐	1.000		983995.18		A	0.9	
5	☐	1.000		914781.54		A	0.5	
6	☐	1.000		872359.32		A	0.9	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		3646514.53		A	0.5	
2	☐	1.000		3626668.49		A	0.5	
3	☐	1.000		3566538.07		A	0.7	
4	☐	1.000		3519434.43		A	1.0	
5	☐	1.000		3396379.22		A	0.5	
6	☐	1.000		3314861.72		A	0.7	

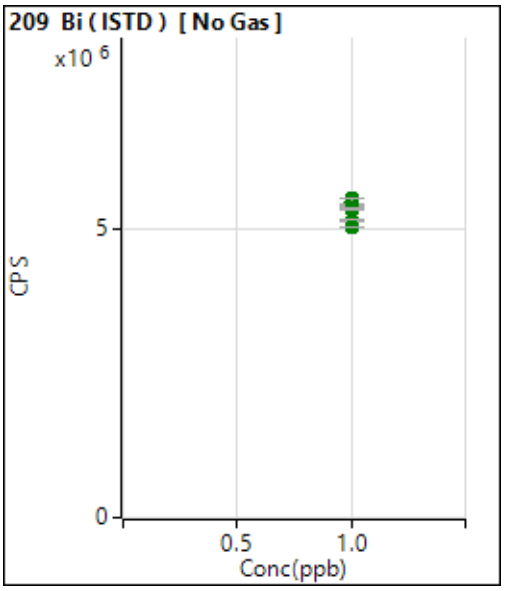


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1051401.00		A	0.4	
2	☐	1.000		1047146.91		A	1.1	
3	☐	1.000		1034070.84		A	0.7	
4	☐	1.000		1020836.86		M	0.5	
5	☐	1.000		969884.26		P	1.3	
6	☐	1.000		969784.23		P	1.1	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		5146220.51		A	0.4	
2	☐	1.000		5093500.24		A	0.4	
3	☐	1.000		4969773.97		A	0.3	
4	☐	1.000		4945533.58		A	0.0	
5	☐	1.000		4765147.85		A	0.4	
6	☐	1.000		4662977.46		A	0.7	

Calibration for 140_ICV.d



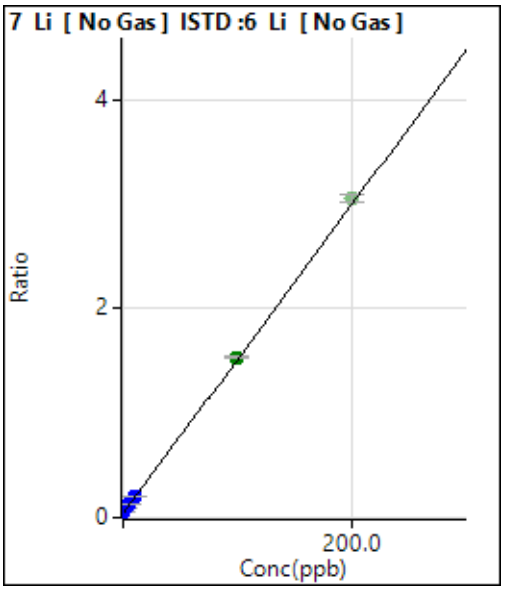
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		5548360.75		A	0.4	
2	☐	1.000		5494022.21		A	1.5	
3	☐	1.000		5385780.54		A	0.5	
4	☐	1.000		5360983.46		A	0.5	
5	☐	1.000		5161866.80		A	0.7	
6	☐	1.000		5046773.47		A	0.6	

Calibration for 021_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\062624A.b\
Analysis File: 062624A.batch.bin
DA Date-Time: 6/26/2024 11:25:02 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	010CALB.d	CAL BLK	6/26/2024 10:42:15 AM
2	011CALS.d	2/10/200	6/26/2024 10:44:58 AM
3	012CALS.d	5/25/500	6/26/2024 10:47:39 AM
4	013CALS.d	10/50/100	6/26/2024 10:50:20 AM
5	018CALS.d	100/500/10K	6/26/2024 11:06:59 AM
6	019CALS.d	200/1000/20K	6/26/2024 11:09:29 AM

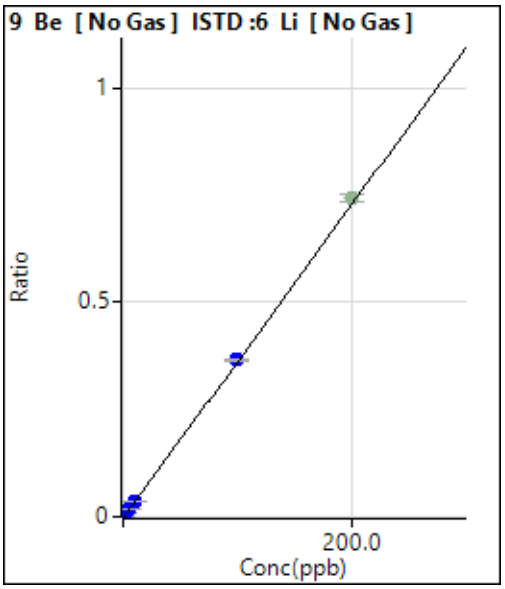
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	73766.09	0.0562	P	1.0	
2	☐	2.000	1.894	109167.18	0.0842	P	0.9	-5.3
3	☐	5.000	4.769	161883.22	0.1267	P	1.5	-4.6
4	☐	10.000	9.751	252585.33	0.2002	P	1.7	-2.5
5	☐	100.000	100.039	1839078.05	1.5332	A	1.4	0.0
6	☑	200.000		3466147.03	3.0558	A	2.3	

y = 0.0148 * x + 0.0562
R = 1.0000
DL = 0.1166 ppb
BEC = 3.81 ppb

Weight: <None>
Min Conc: <None>

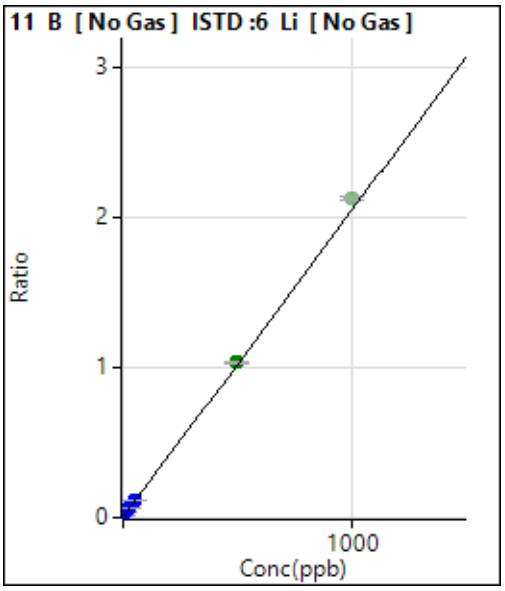


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	151.67	0.0001	P	1.5	
2	☐	2.000	1.920	9258.07	0.0071	P	4.9	-4.0
3	☐	5.000	4.751	22374.32	0.0175	P	3.2	-5.0
4	☐	10.000	9.836	45561.00	0.0361	P	2.1	-1.6
5	☐	100.000	100.030	439242.92	0.3662	P	1.8	0.0
6	☑	200.000		843817.41	0.7439	A	2.9	

y = 0.0037 * x + 1.1564E-004
R = 1.0000
DL = 0.001434 ppb
BEC = 0.0316 ppb

Weight: <None>
Min Conc: <None>

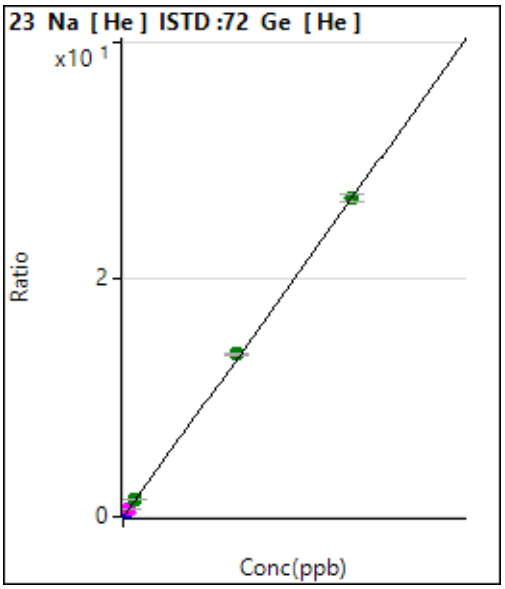
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	18710.69	0.0143	P	0.2	
2	☐	10.000	9.980	44891.16	0.0346	P	2.1	-0.2
3	☐	25.000	23.408	79277.84	0.0620	P	2.1	-6.4
4	☐	50.000	48.870	143787.28	0.1140	P	1.6	-2.3
5	☐	500.000	500.193	1241149.15	1.0347	A	1.0	0.0
6	☑	1000.000		2411542.31	2.1260	A	1.8	

y = 0.0020 * x + 0.0143
R = 1.0000
DL = 0.04583 ppb
BEC = 6.993 ppb

Weight: <None>
Min Conc: <None>

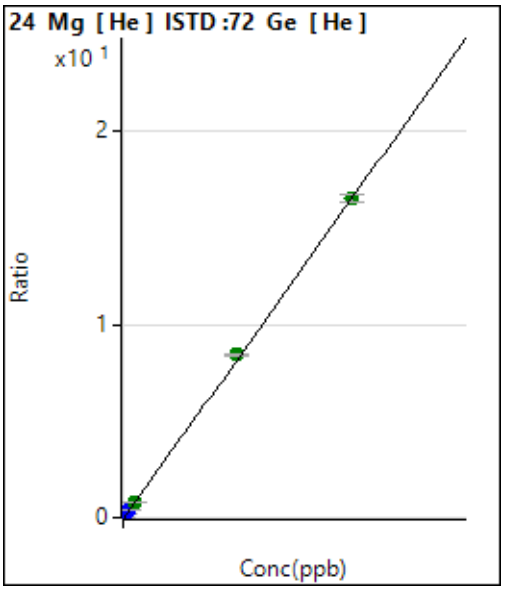


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	95799.83	0.0935	P	1.4	
2	☐	200.000	187.897	353013.68	0.3458	P	1.4	-6.1
3	☐	500.000	462.260	725631.21	0.7142	M	3.3	-7.5
4	☐	1000.000	990.753	1443041.90	1.4238	A	1.6	-0.9
5	☐	10000.00	10152.23	13562841.88	13.7248	A	1.1	1.5
6	☐	20000.00	19925.40	26127261.28	26.8471	A	2.0	-0.4

y = 0.0013 * x + 0.0935
R = 1.0000
DL = 2.973 ppb
BEC = 69.67 ppb

Weight: <None>
Min Conc: <None>

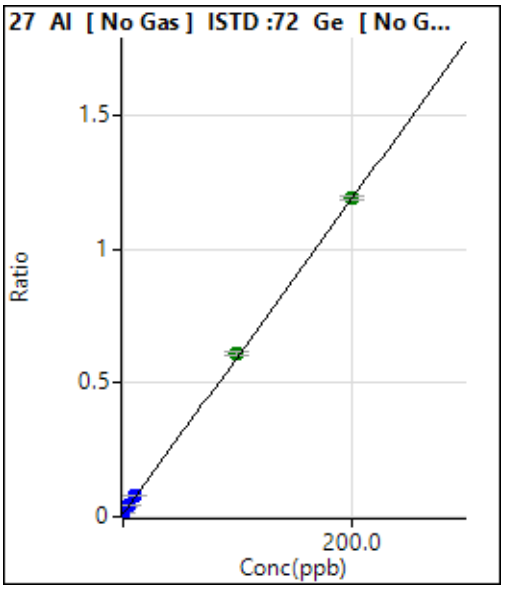
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1183.40	0.0012	P	12.3	
2	☐	200.000	190.743	163017.44	0.1597	P	2.6	-4.6
3	☐	500.000	465.178	393954.77	0.3878	P	3.2	-7.0
4	☐	1000.000	991.890	836660.51	0.8255	A	1.8	-0.8
5	☐	10000.00	10171.81	8355099.04	8.4548	A	1.2	1.7
6	☐	20000.00	19915.46	16108926.43	16.5527	A	2.7	-0.4

y = 8.3109E-004 * x + 0.0012
R = 0.9999
DL = 0.5122 ppb
BEC = 1.391 ppb

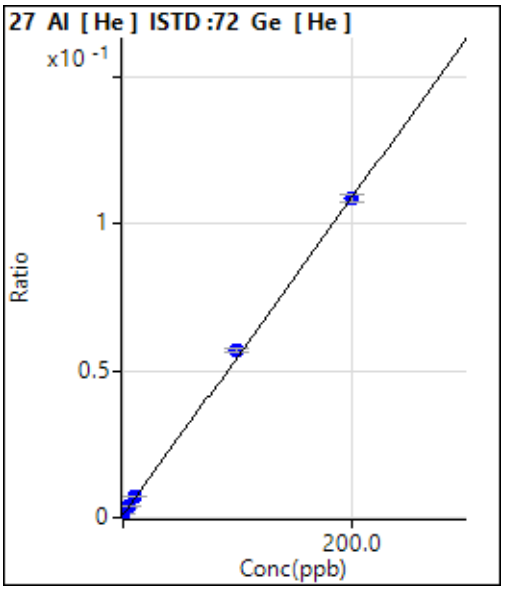
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	59947.83	0.0165	P	1.1	
2	☐	2.000	3.347	130486.80	0.0363	P	3.7	67.3
3	☐	5.000	4.917	162171.59	0.0455	P	1.8	-1.7
4	☐	10.000	10.481	276085.77	0.0783	P	1.8	4.8
5	☐	100.000	100.685	2108614.08	0.6102	A	1.7	0.7
6	☐	200.000	199.622	3998173.79	1.1936	A	1.4	-0.2

y = 0.0059 * x + 0.0165
R = 1.0000
DL = 0.09435 ppb
BEC = 2.804 ppb

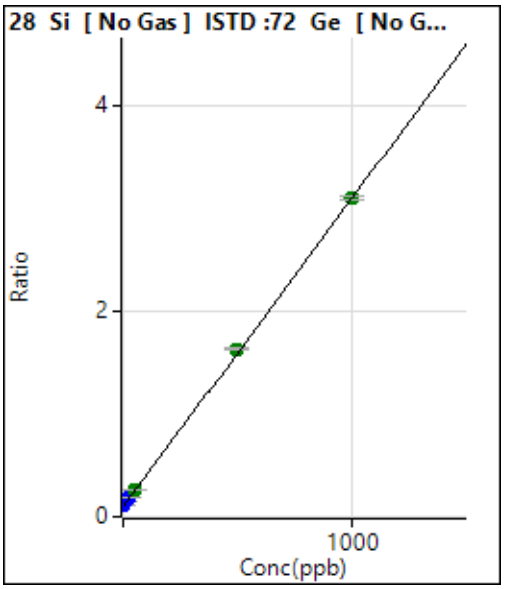
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1503.44	0.0015	P	16.4	
2	☐	2.000	3.164	3243.77	0.0032	P	8.6	58.2
3	☐	5.000	4.704	4070.66	0.0040	P	5.1	-5.9
4	☐	10.000	10.398	7175.28	0.0071	P	0.6	4.0
5	☐	100.000	102.614	56178.74	0.0569	P	3.0	2.6
6	☐	200.000	198.669	105778.78	0.1087	P	2.6	-0.7

y = 5.3971E-004 * x + 0.0015
R = 0.9999
DL = 1.335 ppb
BEC = 2.72 ppb

Weight: <None>
Min Conc: <None>

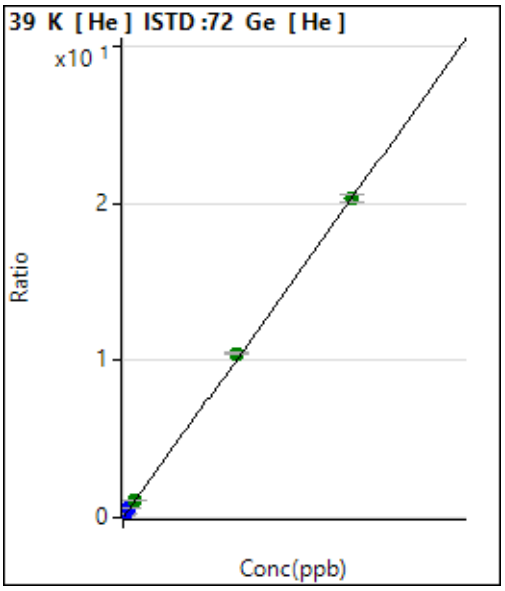


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	409185.78	0.1129	P	1.3	
2	☐	10.000	11.595	531313.48	0.1477	P	1.2	16.0
3	☐	25.000	25.576	675399.63	0.1896	P	1.1	2.3
4	☐	50.000	51.490	942177.72	0.2673	A	1.4	3.0
5	☐	500.000	505.434	5629439.92	1.6291	A	1.4	1.1
6	☐	1000.000	997.178	10398479.43	3.1042	A	1.2	-0.3

y = 0.0030 * x + 0.1129
R = 1.0000
DL = 1.499 ppb
BEC = 37.63 ppb

Weight: <None>
Min Conc: <None>

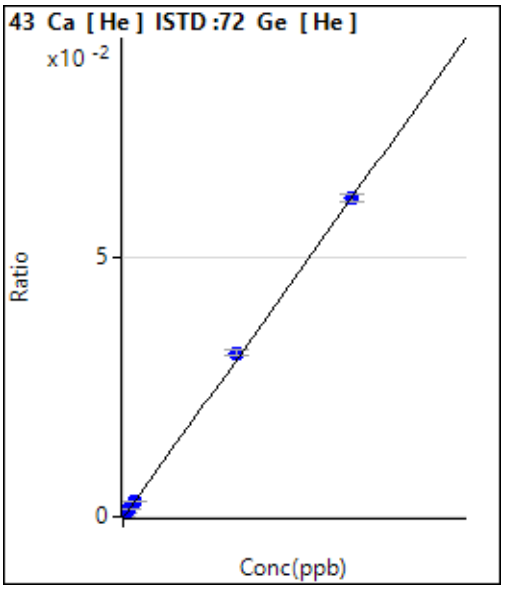
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	96273.60	0.0940	P	0.9	
2	☐	200.000	190.380	293450.63	0.2875	P	1.4	-4.8
3	☐	500.000	461.318	571831.06	0.5628	P	1.6	-7.7
4	☐	1000.000	986.820	1111672.46	1.0969	A	1.6	-1.3
5	☐	10000.00	10189.95	10326336.30	10.4496	A	1.3	1.9
6	☐	20000.00	19906.74	19779665.54	20.3243	A	2.3	-0.5

y = 0.0010 * x + 0.0940
R = 0.9999
DL = 2.521 ppb
BEC = 92.49 ppb

Weight: <None>
Min Conc: <None>

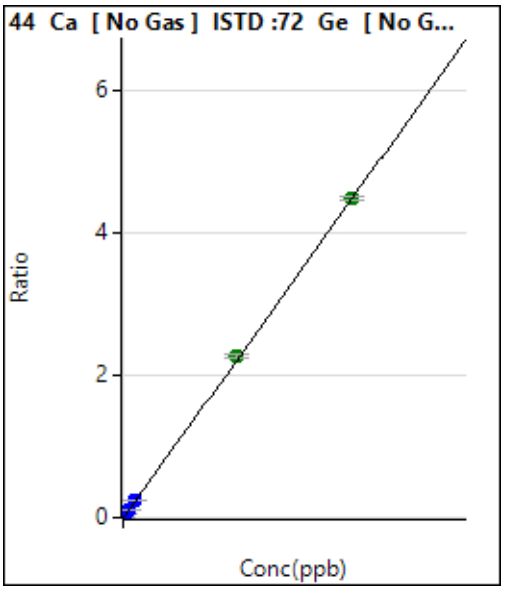


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	46.67	0.0000	P	53.3	
2	☐	200.000	197.281	670.03	0.0007	P	8.0	-1.4
3	☐	500.000	436.412	1420.10	0.0014	P	9.9	-12.7
4	☐	1000.000	957.556	3053.72	0.0030	P	5.7	-4.2
5	☐	10000.00	10223.79	31352.24	0.0317	P	3.0	2.2
6	☐	20000.00	19891.84	60032.57	0.0617	P	2.9	-0.5

y = 3.0987E-006 * x + 4.5465E-005
R = 0.9999
DL = 23.48 ppb
BEC = 14.67 ppb

Weight: <None>
Min Conc: <None>

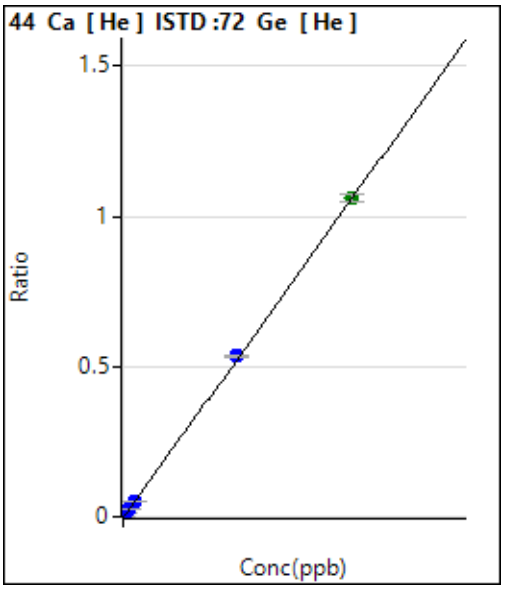
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	38924.97	0.0107	P	1.2	
2	☐	200.000	202.706	202207.96	0.0562	P	3.9	1.4
3	☐	500.000	486.698	427151.40	0.1199	P	2.1	-2.7
4	☐	1000.000	994.165	823782.98	0.2337	P	2.1	-0.6
5	☐	10000.00	10094.04	7861349.67	2.2750	A	1.8	0.9
6	☐	20000.00	19953.57	15029153.94	4.4866	A	1.1	-0.2

y = 2.2432E-004 * x + 0.0107
R = 1.0000
DL = 1.669 ppb
BEC = 47.86 ppb

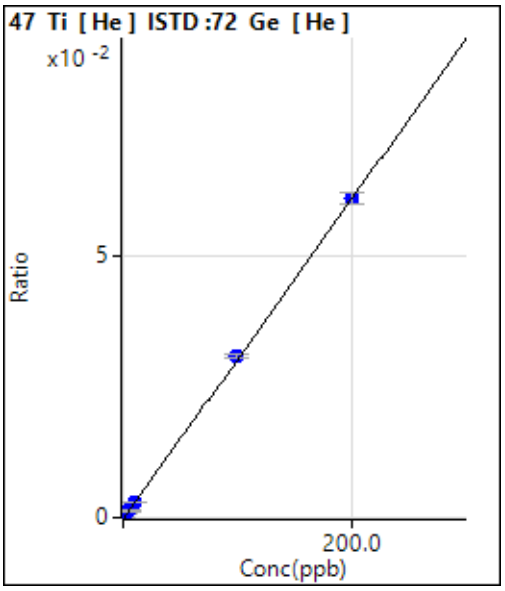
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	863.38	0.0008	P	14.0	
2	☐	200.000	199.401	11671.74	0.0114	P	3.5	-0.3
3	☐	500.000	457.772	25560.40	0.0252	P	4.4	-8.4
4	☐	1000.000	987.118	53995.18	0.0533	P	1.2	-1.3
5	☐	10000.00	10079.51	529956.54	0.5363	P	0.9	0.8
6	☐	20000.00	19961.94	1032824.41	1.0613	A	2.8	-0.2

y = 5.3122E-005 * x + 8.4230E-004
R = 1.0000
DL = 6.667 ppb
BEC = 15.86 ppb

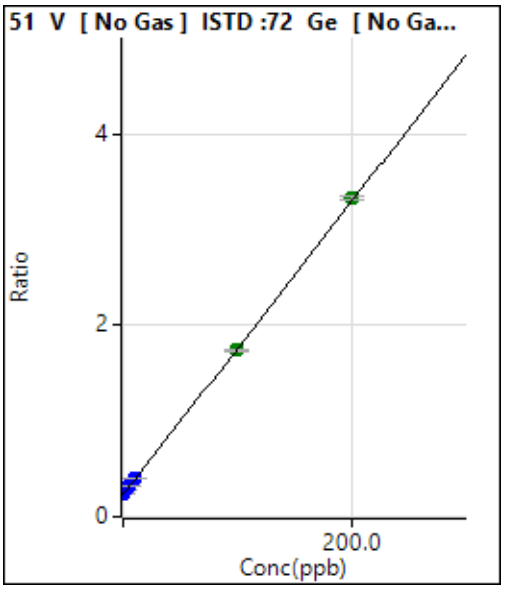
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6.67	0.0000	P	86.6	
2	☐	2.000	2.065	650.02	0.0006	P	9.5	3.2
3	☐	5.000	4.398	1370.10	0.0013	P	16.5	-12.0
4	☐	10.000	9.405	2917.03	0.0029	P	5.6	-5.9
5	☐	100.000	101.126	30517.18	0.0309	P	2.3	1.1
6	☐	200.000	199.481	59276.58	0.0609	P	3.8	-0.3

y = 3.0530E-004 * x + 6.4965E-006
R = 1.0000
DL = 0.05529 ppb
BEC = 0.02128 ppb

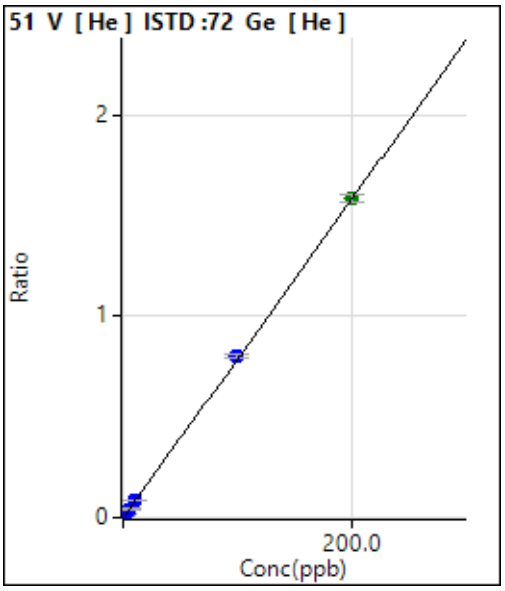
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	898774.18	0.2479	P	0.4	
2	☐	2.000	1.942	998926.92	0.2776	P	2.9	-2.9
3	☐	5.000	4.451	1125876.97	0.3161	P	1.5	-11.0
4	☐	10.000	10.135	1420588.30	0.4031	P	1.3	1.4
5	☐	100.000	97.249	6001487.77	1.7367	A	1.9	-2.8
6	☐	200.000	201.383	11158012.07	3.3310	A	1.3	0.7

y = 0.0153 * x + 0.2479
R = 0.9999
DL = 0.2155 ppb
BEC = 16.19 ppb

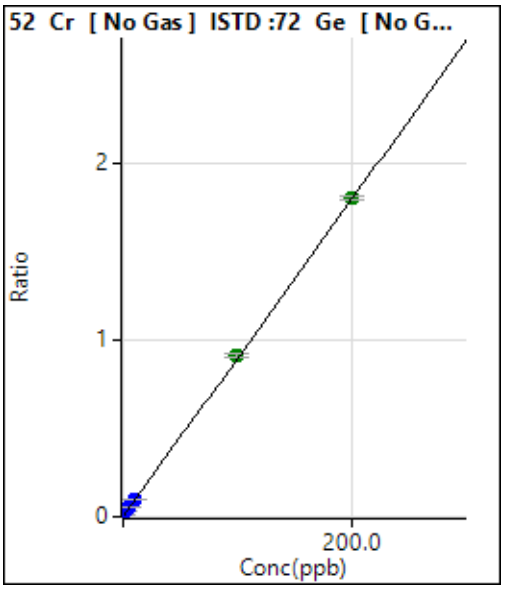
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6458.20	0.0063	P	3.0	
2	☐	2.000	1.912	21895.13	0.0214	P	2.4	-4.4
3	☐	5.000	4.587	43309.59	0.0426	P	3.5	-8.3
4	☐	10.000	9.690	84156.78	0.0830	P	1.7	-3.1
5	☐	100.000	100.595	793394.60	0.8029	P	1.5	0.6
6	☐	200.000	199.729	1545285.35	1.5878	A	2.5	-0.1

y = 0.0079 * x + 0.0063
R = 1.0000
DL = 0.07219 ppb
BEC = 0.7964 ppb

Weight: <None>
Min Conc: <None>

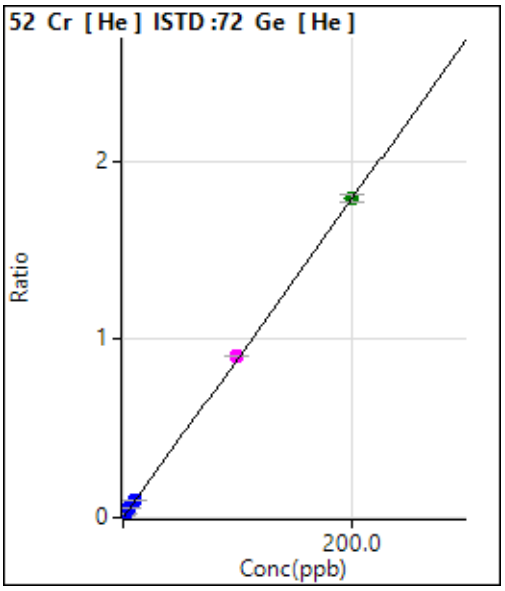


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	38527.15	0.0106	P	1.1	
2	☐	2.000	1.935	100543.18	0.0279	P	4.0	-3.3
3	☐	5.000	4.767	189908.25	0.0533	P	2.3	-4.7
4	☐	10.000	9.750	345108.59	0.0979	P	1.7	-2.5
5	☐	100.000	100.259	3138553.39	0.9083	A	2.1	0.3
6	☐	200.000	199.889	6030638.45	1.8003	A	1.7	-0.1

y = 0.0090 * x + 0.0106
R = 1.0000
DL = 0.04009 ppb
BEC = 1.187 ppb

Weight: <None>
Min Conc: <None>

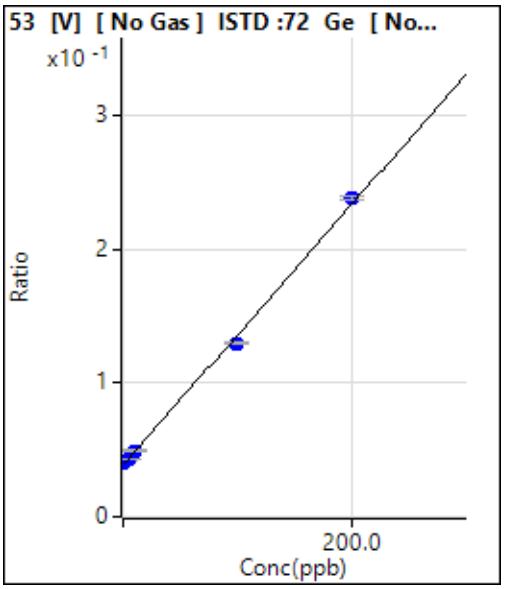
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	8549.46	0.0083	P	1.0	
2	☐	2.000	1.875	25620.65	0.0251	P	0.7	-6.2
3	☐	5.000	4.722	51335.22	0.0505	P	4.7	-5.6
4	☐	10.000	10.025	99219.98	0.0979	P	1.7	0.2
5	☐	100.000	100.803	898049.36	0.9088	M	0.4	0.8
6	☐	200.000	199.605	1743351.59	1.7914	A	2.4	-0.2

y = 0.0089 * x + 0.0083
R = 1.0000
DL = 0.02943 ppb
BEC = 0.9345 ppb

Weight: <None>
Min Conc: <None>

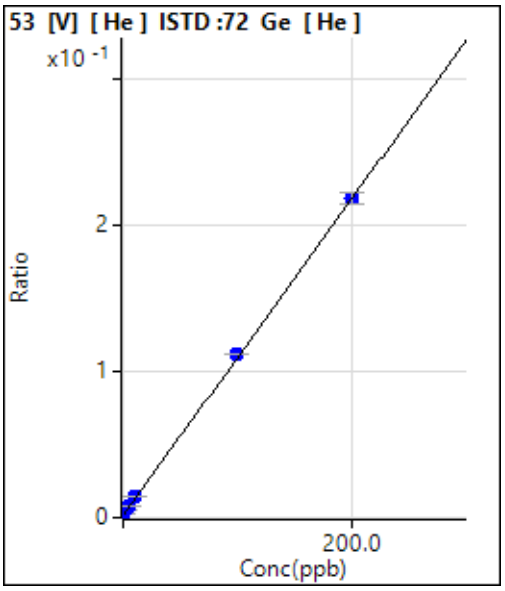


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	145003.04	0.0400	P	0.4	
2	☐	2.000	1.823	150279.69	0.0418	P	2.7	-8.9
3	☐	5.000	3.259	153763.79	0.0432	P	1.3	-34.8
4	☐	10.000	9.700	174195.21	0.0494	P	1.0	-3.0
5	☐	100.000	92.327	448321.17	0.1297	P	1.6	-7.7
6	☐	200.000	203.897	797864.18	0.2382	P	1.3	1.9

y = 9.7199E-004 * x + 0.0400
R = 0.9990
DL = 0.4971 ppb
BEC = 41.15 ppb

Weight: <None>
Min Conc: <None>

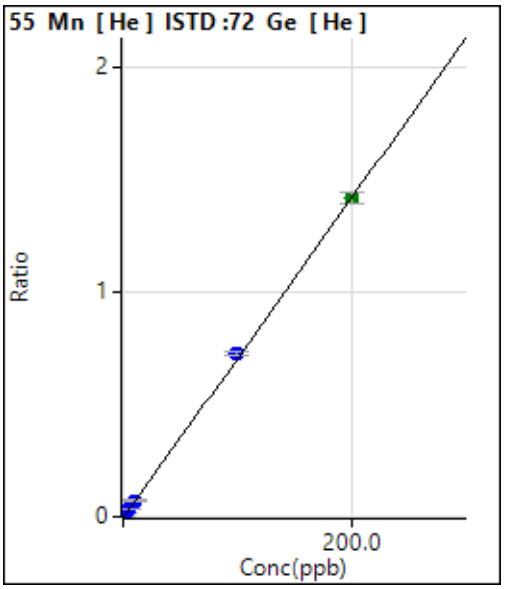
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2686.98	0.0026	P	8.2	
2	☐	2.000	1.934	4814.27	0.0047	P	3.2	-3.3
3	☐	5.000	4.696	7825.72	0.0077	P	6.7	-6.1
4	☐	10.000	10.570	14247.55	0.0141	P	0.5	5.7
5	☐	100.000	101.208	110789.82	0.1121	P	0.5	1.2
6	☐	200.000	199.376	212472.27	0.2183	P	3.2	-0.3

y = 0.0011 * x + 0.0026
R = 1.0000
DL = 0.5932 ppb
BEC = 2.425 ppb

Weight: <None>
Min Conc: <None>

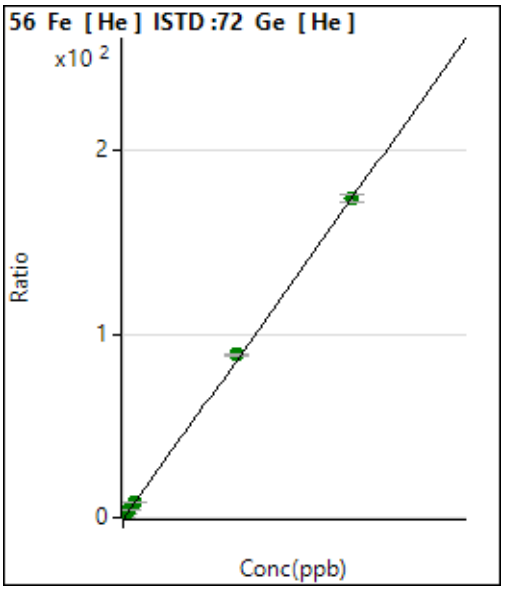


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	796.71	0.0008	P	21.6	
2	☐	2.000	1.969	15095.15	0.0148	P	4.3	-1.6
3	☐	5.000	4.654	34429.88	0.0339	P	0.8	-6.9
4	☐	10.000	10.065	73347.84	0.0724	P	2.3	0.6
5	☐	100.000	102.130	718660.02	0.7272	P	1.8	2.1
6	☐	200.000	198.941	1377896.85	1.4158	A	3.1	-0.5

y = 0.0071 * x + 7.7875E-004
R = 0.9999
DL = 0.07085 ppb
BEC = 0.1095 ppb

Weight: <None>
Min Conc: <None>

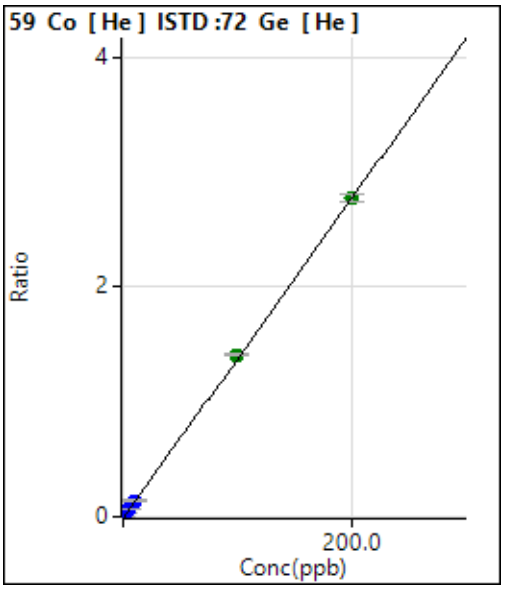
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	15725.88	0.0154	P	2.0	
2	☐	200.000	193.738	1745375.60	1.7098	A	1.8	-3.1
3	☐	500.000	463.555	4134670.77	4.0696	A	3.4	-7.3
4	☐	1000.000	996.475	8848571.12	8.7306	A	1.8	-0.4
5	☐	10000.00	10179.44	87995328.69	89.0452	A	1.4	1.8
6	☐	20000.00	19911.42	169492937.4	174.161	A	2.7	-0.4

y = 0.0087 * x + 0.0154
R = 0.9999
DL = 0.1062 ppb
BEC = 1.755 ppb

Weight: <None>
Min Conc: <None>

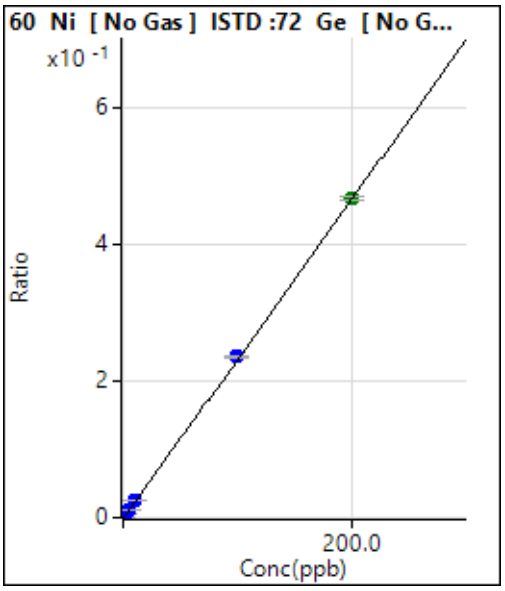


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	473.35	0.0005	P	6.7	
2	☐	2.000	1.935	27958.63	0.0274	P	3.6	-3.3
3	☐	5.000	4.711	67066.13	0.0660	P	2.9	-5.8
4	☐	10.000	10.116	143133.87	0.1412	P	2.4	1.2
5	☐	100.000	101.294	1393368.26	1.4100	A	1.3	1.3
6	☐	200.000	199.355	2700154.85	2.7745	A	2.0	-0.3

y = 0.0139 * x + 4.6201E-004
R = 1.0000
DL = 0.006679 ppb
BEC = 0.0332 ppb

Weight: <None>
Min Conc: <None>

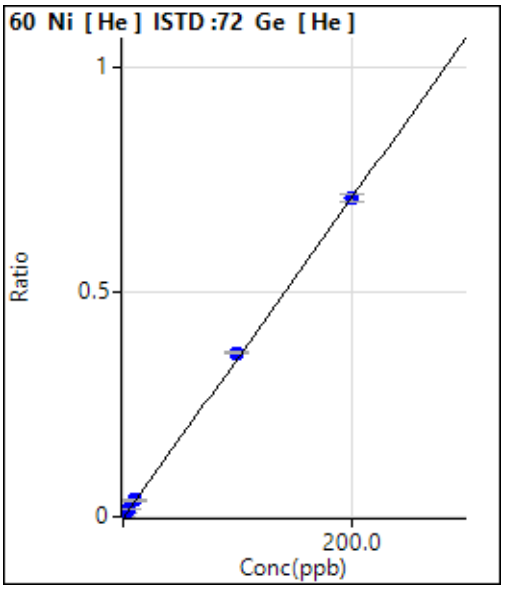
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1140.07	0.0003	P	12.1	
2	☐	2.000	2.089	18719.66	0.0052	P	4.2	4.5
3	☐	5.000	4.963	42488.93	0.0119	P	1.5	-0.7
4	☐	10.000	10.242	85568.15	0.0243	P	1.6	2.4
5	☐	100.000	100.481	813536.68	0.2354	P	2.1	0.5
6	☐	200.000	199.747	1566698.83	0.4677	A	1.4	-0.1

y = 0.0023 * x + 3.1434E-004
R = 1.0000
DL = 0.04884 ppb
BEC = 0.1343 ppb

Weight: <None>
Min Conc: <None>

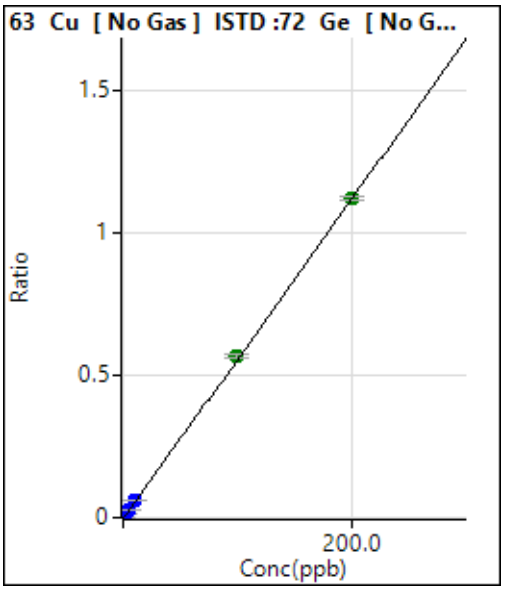


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	326.68	0.0003	P	21.5	
2	☐	2.000	1.940	7388.77	0.0072	P	3.1	-3.0
3	☐	5.000	4.780	17651.59	0.0174	P	6.0	-4.4
4	☐	10.000	10.132	36963.30	0.0365	P	5.2	1.3
5	☐	100.000	101.993	359924.07	0.3642	P	1.1	2.0
6	☐	200.000	199.003	691304.39	0.7103	P	2.6	-0.5

y = 0.0036 * x + 3.1933E-004
R = 0.9999
DL = 0.05785 ppb
BEC = 0.0895 ppb

Weight: <None>
Min Conc: <None>

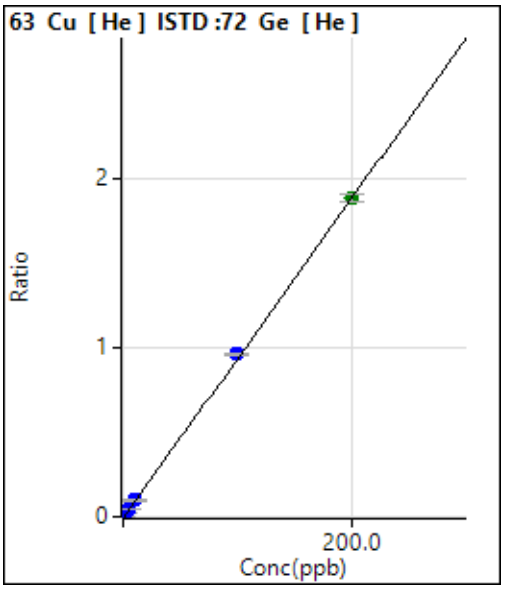
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2580.29	0.0007	P	7.0	
2	☐	2.000	2.079	44542.26	0.0124	P	4.3	3.9
3	☐	5.000	5.127	105069.14	0.0295	P	3.1	2.5
4	☐	10.000	10.392	208124.53	0.0591	P	1.4	3.9
5	☐	100.000	100.871	1959324.09	0.5670	A	1.9	0.9
6	☐	200.000	199.541	3754985.15	1.1210	A	1.6	-0.2

y = 0.0056 * x + 7.1180E-004
R = 1.0000
DL = 0.02647 ppb
BEC = 0.1268 ppb

Weight: <None>
Min Conc: <None>

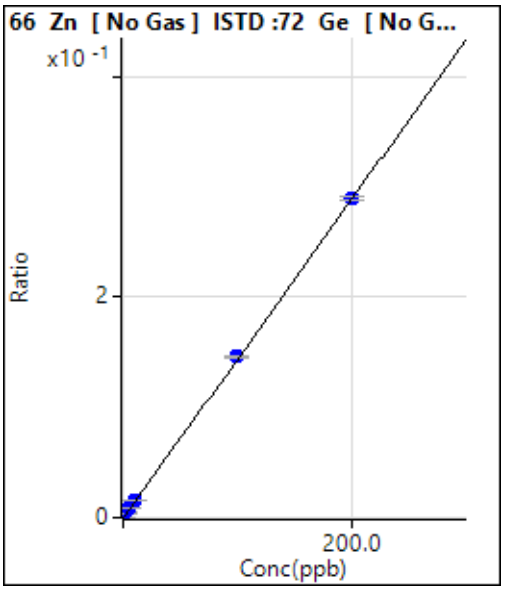


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	633.36	0.0006	P	11.1	
2	☐	2.000	2.075	20655.78	0.0202	P	1.1	3.8
3	☐	5.000	4.764	46384.96	0.0457	P	3.5	-4.7
4	☐	10.000	10.175	98121.35	0.0968	P	1.4	1.8
5	☐	100.000	101.490	948807.85	0.9601	P	1.9	1.5
6	☐	200.000	199.252	1833855.39	1.8844	A	2.4	-0.4

y = 0.0095 * x + 6.1822E-004
R = 1.0000
DL = 0.02173 ppb
BEC = 0.06539 ppb

Weight: <None>
Min Conc: <None>

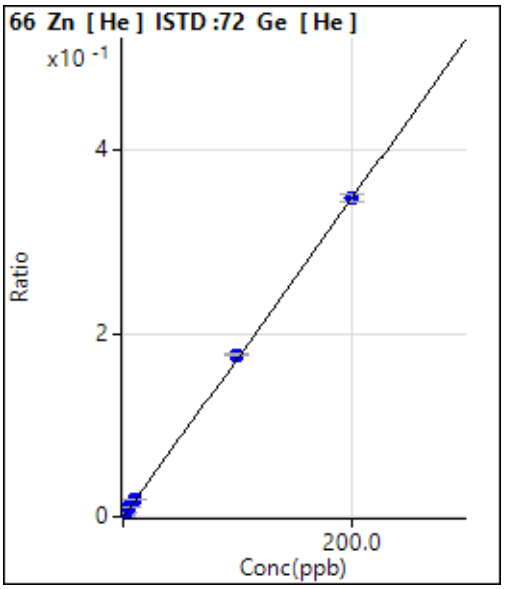
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2643.64	0.0007	P	3.0	
2	☐	2.000	2.593	16123.09	0.0045	P	7.0	29.7
3	☐	5.000	5.195	29385.03	0.0082	P	1.9	3.9
4	☐	10.000	10.221	54709.16	0.0155	P	2.4	2.2
5	☐	100.000	100.589	505658.04	0.1463	P	1.6	0.6
6	☐	200.000	199.684	970670.46	0.2898	P	1.7	-0.2

y = 0.0014 * x + 7.2926E-004
R = 1.0000
DL = 0.04504 ppb
BEC = 0.5038 ppb

Weight: <None>
Min Conc: <None>

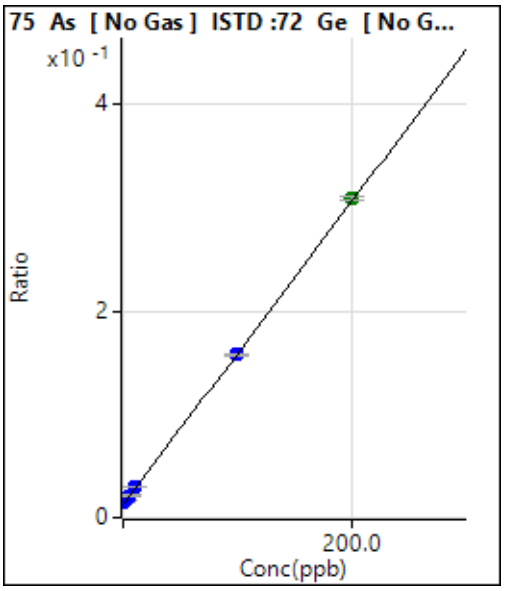


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1080.06	0.0011	P	12.7	
2	☐	2.000	2.324	5207.73	0.0051	P	4.5	16.2
3	☐	5.000	5.027	9963.76	0.0098	P	2.6	0.5
4	☐	10.000	9.938	18599.57	0.0184	P	1.3	-0.6
5	☐	100.000	101.169	175068.72	0.1772	P	1.0	1.2
6	☐	200.000	199.415	338842.07	0.3482	P	2.1	-0.3

y = 0.0017 * x + 0.0011
R = 1.0000
DL = 0.2308 ppb
BEC = 0.6061 ppb

Weight: <None>
Min Conc: <None>

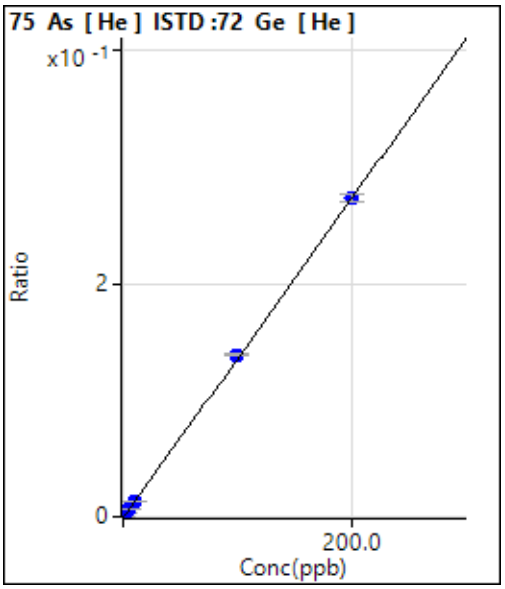
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	51447.16	0.0142	P	0.6	
2	☐	2.000	2.131	62315.82	0.0173	P	1.5	6.5
3	☐	5.000	4.885	76095.41	0.0214	P	3.2	-2.3
4	☐	10.000	10.130	102418.59	0.0291	P	1.2	1.3
5	☐	100.000	97.748	544819.98	0.1577	P	2.0	-2.3
6	☐	200.000	201.121	1036374.02	0.3094	A	1.2	0.6

y = 0.0015 * x + 0.0142
R = 0.9999
DL = 0.1756 ppb
BEC = 9.669 ppb

Weight: <None>
Min Conc: <None>

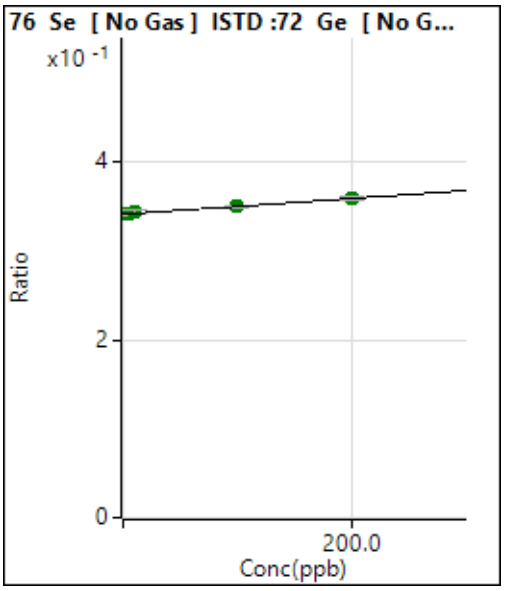


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	275.56	0.0003	P	9.7	
2	☐	2.000	1.951	3008.13	0.0029	P	1.0	-2.4
3	☐	5.000	4.533	6592.74	0.0065	P	2.9	-9.3
4	☐	10.000	9.887	14022.77	0.0138	P	1.3	-1.1
5	☐	100.000	101.339	137682.54	0.1393	P	1.5	1.3
6	☐	200.000	199.349	266474.03	0.2738	P	2.3	-0.3

y = 0.0014 * x + 2.6901E-004
R = 1.0000
DL = 0.0568 ppb
BEC = 0.196 ppb

Weight: <None>
Min Conc: <None>

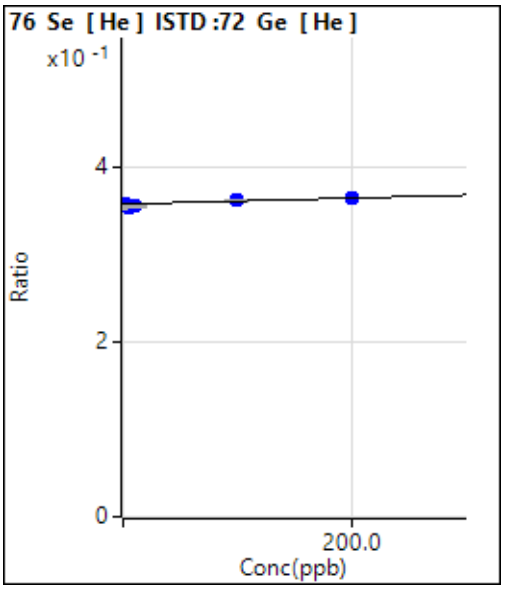
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1237660.55	0.3414	A	0.5	
2	☐	2.000	-1.887	1227906.99	0.3412	A	0.9	-194.3
3	☐	5.000	-1.017	1215855.47	0.3413	A	0.9	-120.3
4	☐	10.000	35.309	1214376.88	0.3446	A	0.9	253.1
5	☐	100.000	96.003	1209468.21	0.3500	A	0.3	-4.0
6	☐	200.000	200.922	1203818.55	0.3594	A	0.7	0.5

y = 8.9525E-005 * x + 0.3414
R = 0.9897
DL = 55.62 ppb
BEC = 3814 ppb

Weight: <None>
Min Conc: <None>

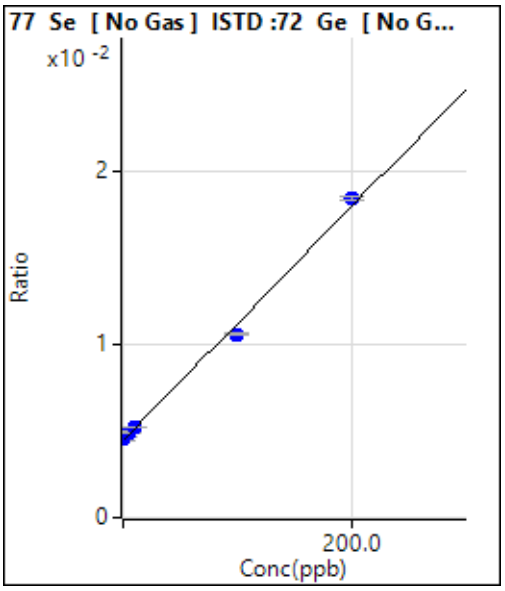


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	366192.12	0.3575	P	1.4	
2	☐	2.000	3.643	365071.79	0.3576	P	0.5	82.2
3	☐	5.000	-134.215	358527.12	0.3529	P	0.9	-2784.3
4	☐	10.000	-74.147	359722.92	0.3549	P	0.4	-841.5
5	☐	100.000	112.851	357152.25	0.3614	P	0.7	12.9
6	☐	200.000	201.246	354728.94	0.3645	P	0.2	0.6

y = 3.4707E-005 * x + 0.3575
R = 0.8878
DL = 421.7 ppb
BEC = 1.03E+04 ppb

Weight: <None>
Min Conc: <None>

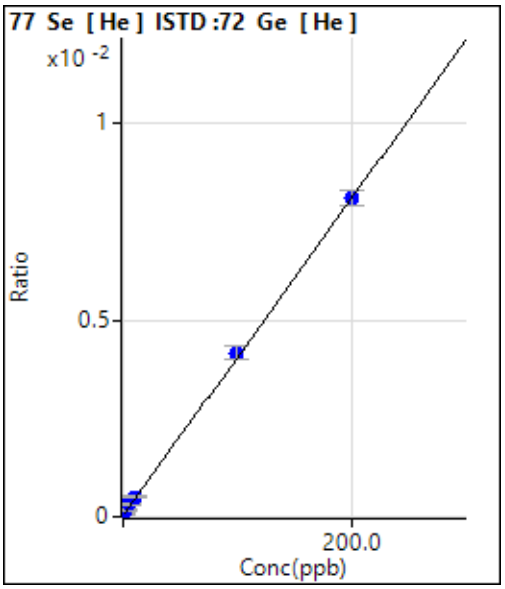
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16567.02	0.0046	P	3.3	
2	☐	2.000	3.590	17307.97	0.0048	P	5.7	79.5
3	☐	5.000	5.083	17498.25	0.0049	P	2.2	1.7
4	☐	10.000	9.865	18449.49	0.0052	P	1.1	-1.4
5	☐	100.000	88.905	36515.87	0.0106	P	1.3	-11.1
6	☐	200.000	205.536	61753.39	0.0184	P	1.6	2.8

y = 6.7460E-005 * x + 0.0046
R = 0.9978
DL = 6.633 ppb
BEC = 67.74 ppb

Weight: <None>
Min Conc: <None>

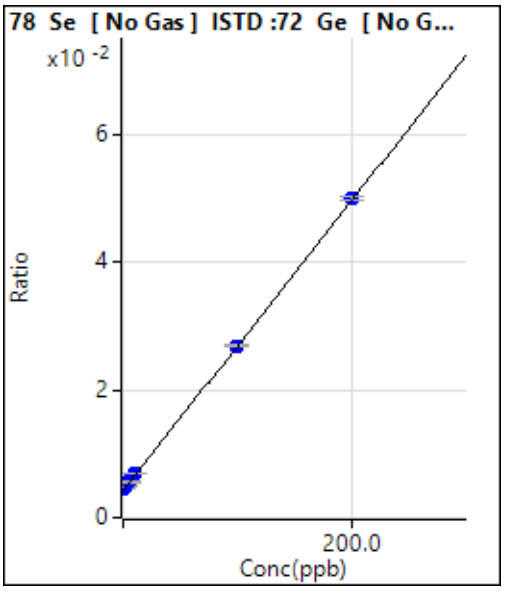


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	76.67	0.0001	P	40.3	
2	☐	2.000	1.955	156.67	0.0002	P	32.3	-2.2
3	☐	5.000	6.357	336.68	0.0003	P	11.5	27.1
4	☐	10.000	10.697	513.35	0.0005	P	7.0	7.0
5	☐	100.000	101.492	4120.70	0.0042	P	7.8	1.5
6	☐	200.000	199.186	7892.41	0.0081	P	4.7	-0.4

y = 4.0337E-005 * x + 7.4969E-005
R = 0.9999
DL = 2.248 ppb
BEC = 1.859 ppb

Weight: <None>
Min Conc: <None>

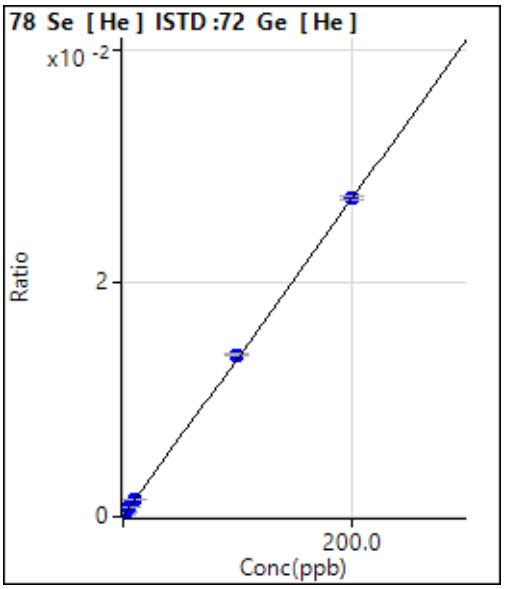
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16319.97	0.0045	P	3.2	
2	☐	2.000	1.964	17805.22	0.0049	P	2.2	-1.8
3	☐	5.000	4.774	19898.11	0.0056	P	2.7	-4.5
4	☐	10.000	10.228	24051.54	0.0068	P	1.1	2.3
5	☐	100.000	98.925	93174.56	0.0270	P	2.1	-1.1
6	☐	200.000	200.532	167600.48	0.0500	P	1.4	0.3

y = 2.2705E-004 * x + 0.0045
R = 1.0000
DL = 1.893 ppb
BEC = 19.83 ppb

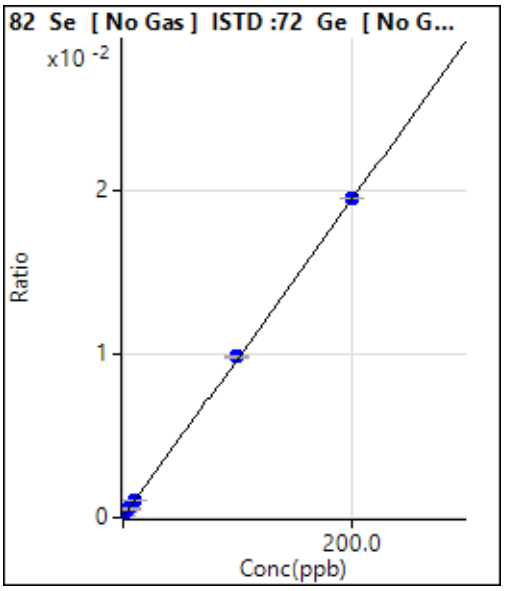
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	153.33	0.0001	P	9.6	
2	☐	2.000	1.909	418.01	0.0004	P	5.2	-4.5
3	☐	5.000	4.559	782.02	0.0008	P	5.3	-8.8
4	☐	10.000	9.724	1492.09	0.0015	P	2.1	-2.8
5	☐	100.000	100.609	13671.52	0.0138	P	1.3	0.6
6	☐	200.000	199.721	26583.17	0.0273	P	1.7	-0.1

y = 1.3602E-004 * x + 1.4967E-004
R = 1.0000
DL = 0.3154 ppb
BEC = 1.1 ppb

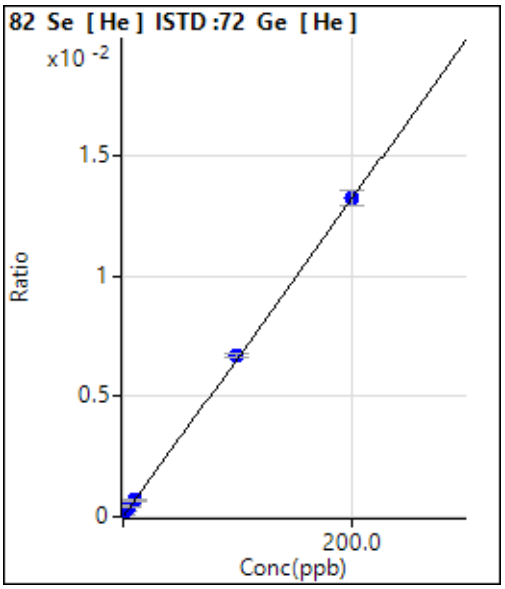
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	456.68	0.0001	P	5.8	
2	☐	2.000	1.884	1110.07	0.0003	P	8.5	-5.8
3	☐	5.000	4.376	1956.84	0.0005	P	16.8	-12.5
4	☐	10.000	9.841	3800.62	0.0011	P	3.4	-1.6
5	☐	100.000	100.091	33909.42	0.0098	P	1.1	0.1
6	☐	200.000	199.979	65250.04	0.0195	P	0.5	0.0

y = 9.6778E-005 * x + 1.2599E-004
R = 1.0000
DL = 0.228 ppb
BEC = 1.302 ppb

Weight: <None>
Min Conc: <None>

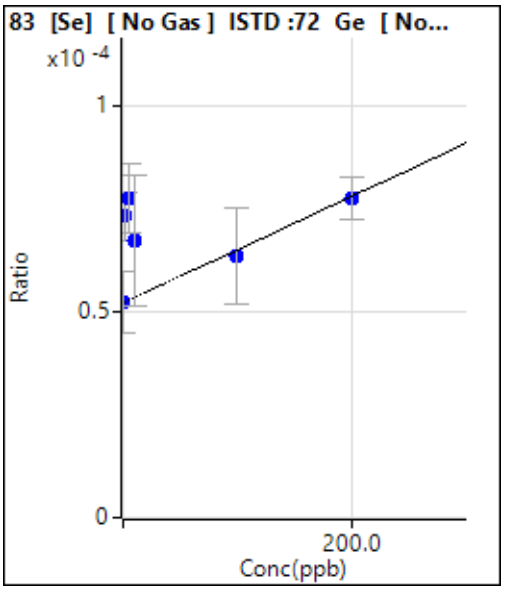


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	63.33	0.0001	P	48.3	
2	☐	2.000	2.876	256.67	0.0003	P	20.3	43.8
3	☐	5.000	5.325	420.01	0.0004	P	14.6	6.5
4	☐	10.000	9.478	696.70	0.0007	P	6.5	-5.2
5	☐	100.000	100.664	6628.38	0.0067	P	2.2	0.7
6	☐	200.000	199.677	12889.65	0.0132	P	4.7	-0.2

y = 6.6026E-005 * x + 6.1791E-005
R = 1.0000
DL = 1.355 ppb
BEC = 0.9359 ppb

Weight: <None>
Min Conc: <None>

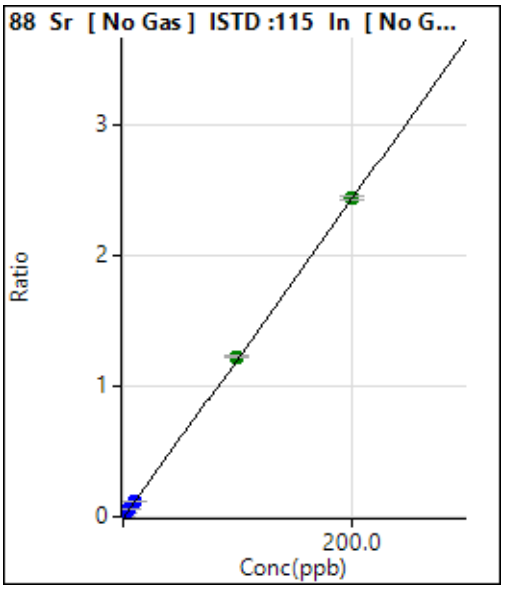
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	190.00	0.0001	P	29.2	
2	☐	2.000	160.998	263.34	0.0001	P	15.7	7949.9
3	☐	5.000	195.136	276.67	0.0001	P	21.8	3802.7
4	☐	10.000	113.850	236.67	0.0001	P	47.4	1038.5
5	☐	100.000	87.172	220.01	0.0001	P	36.3	-12.8
6	☐	200.000	194.878	260.01	0.0001	P	13.6	-2.6

y = 1.2939E-007 * x + 5.2389E-005
R = 0.3384
DL = 354.2 ppb
BEC = 404.9 ppb

Weight: <None>
Min Conc: <None>

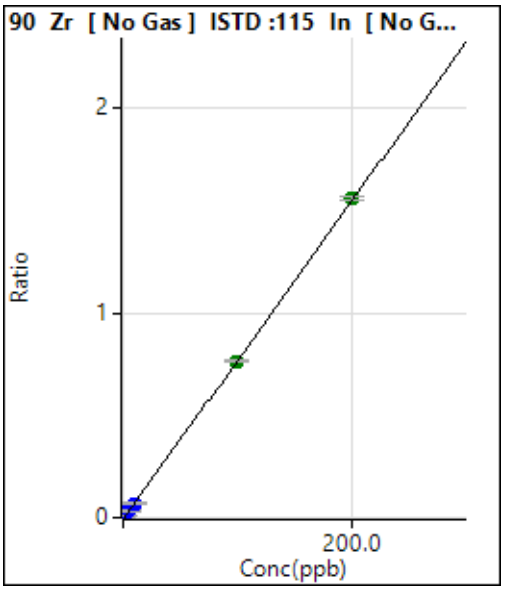


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2720.33	0.0006	P	1.3	
2	☐	2.000	1.918	115680.83	0.0240	P	3.6	-4.1
3	☐	5.000	4.674	274822.35	0.0577	P	2.7	-6.5
4	☐	10.000	9.606	558292.01	0.1179	P	1.2	-3.9
5	☐	100.000	100.334	5622582.41	1.2266	A	1.6	0.3
6	☐	200.000	199.862	10854979.42	2.4427	A	1.6	-0.1

y = 0.0122 * x + 5.6362E-004
R = 1.0000
DL = 0.001788 ppb
BEC = 0.04613 ppb

Weight: <None>
Min Conc: <None>

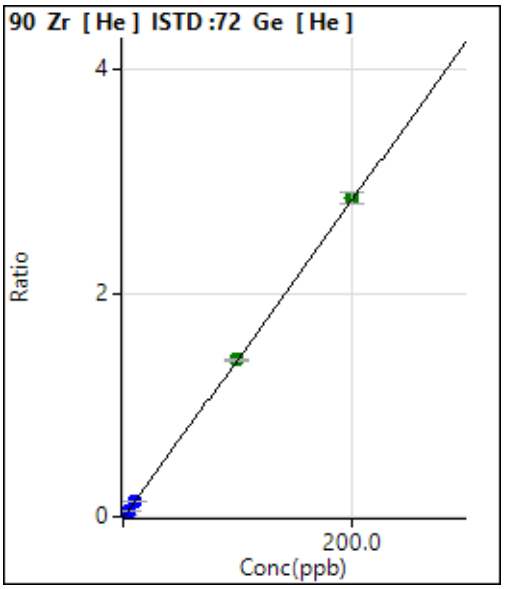
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1500.12	0.0003	P	4.5	
2	☐	2.000	1.579	60605.85	0.0126	P	3.5	-21.1
3	☐	5.000	4.224	157845.84	0.0331	P	1.6	-15.5
4	☐	10.000	9.031	333555.66	0.0705	P	1.3	-9.7
5	☐	100.000	98.493	3508521.30	0.7654	A	1.6	-1.5
6	☐	200.000	200.825	6933572.40	1.5603	A	1.7	0.4

y = 0.0078 * x + 3.1077E-004
R = 1.0000
DL = 0.005422 ppb
BEC = 0.04001 ppb

Weight: <None>
Min Conc: <None>

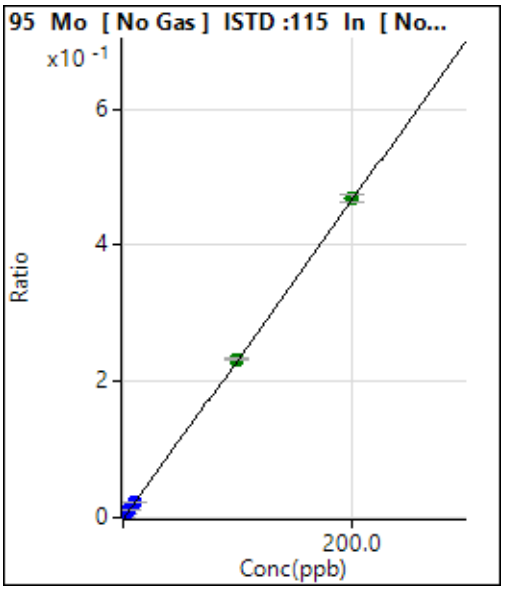


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1653.47	0.0016	P	2.9	
2	☐	2.000	1.616	25073.49	0.0246	P	0.4	-19.2
3	☐	5.000	4.022	59668.60	0.0587	P	3.2	-19.6
4	☐	10.000	9.094	132514.31	0.1308	P	0.9	-9.1
5	☐	100.000	98.692	1386536.54	1.4031	A	1.6	-1.3
6	☐	200.000	200.727	2775580.06	2.8520	A	3.3	0.4

y = 0.0142 * x + 0.0016
R = 1.0000
DL = 0.00979 ppb
BEC = 0.1137 ppb

Weight: <None>
Min Conc: <None>

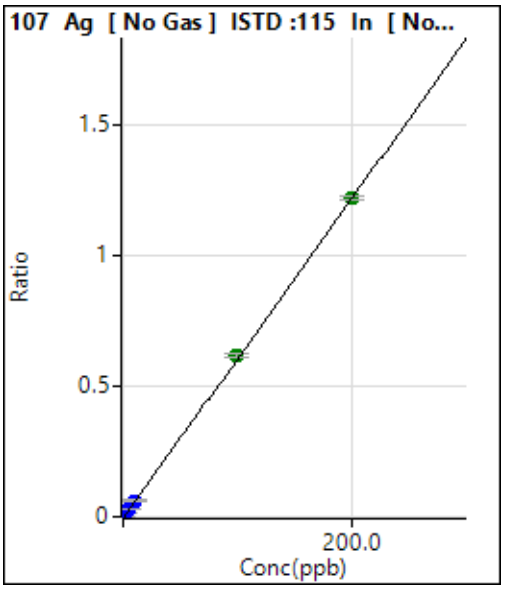
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	180.00	0.0000	P	14.4	
2	☐	2.000	1.883	21400.67	0.0044	P	5.6	-5.8
3	☐	5.000	4.740	52997.70	0.0111	P	3.2	-5.2
4	☐	10.000	9.766	108289.74	0.0229	P	2.2	-2.3
5	☐	100.000	99.145	1063037.25	0.2319	A	1.5	-0.9
6	☐	200.000	200.447	2083280.91	0.4688	A	2.0	0.2

y = 0.0023 * x + 3.7283E-005
R = 1.0000
DL = 0.006897 ppb
BEC = 0.01594 ppb

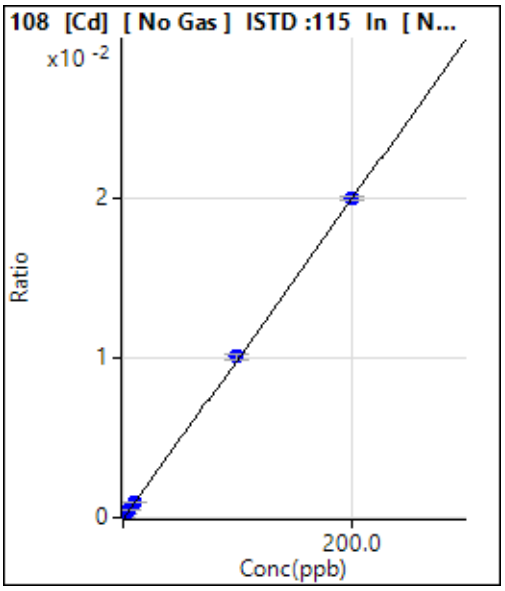
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	563.36	0.0001	P	19.7	
2	☐	2.000	1.982	59110.94	0.0123	P	5.8	-0.9
3	☐	5.000	4.989	146313.89	0.0307	P	2.5	-0.2
4	☐	10.000	10.156	295294.82	0.0624	P	2.2	1.6
5	☐	100.000	100.952	2837639.54	0.6190	A	2.0	1.0
6	☐	200.000	199.517	5436208.46	1.2233	A	1.6	-0.2

y = 0.0061 * x + 1.1667E-004
R = 1.0000
DL = 0.01124 ppb
BEC = 0.01903 ppb

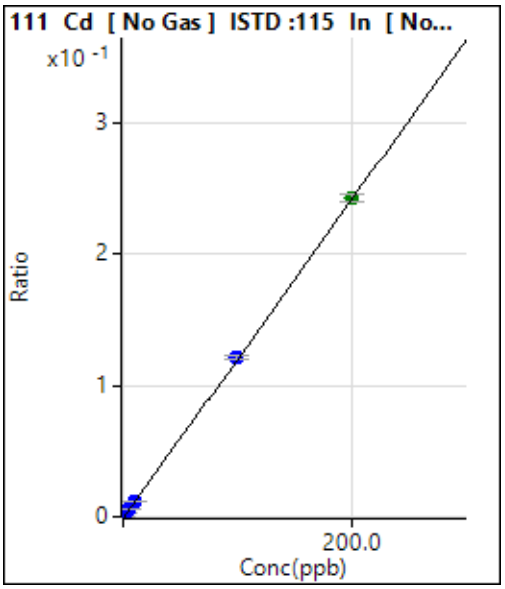
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16.67	0.0000	P	91.8	
2	☐	2.000	1.973	966.72	0.0002	P	10.2	-1.4
3	☐	5.000	4.587	2200.23	0.0005	P	7.8	-8.3
4	☐	10.000	9.878	4687.55	0.0010	P	4.8	-1.2
5	☐	100.000	100.823	46183.27	0.0101	P	3.3	0.8
6	☐	200.000	199.605	88623.15	0.0199	P	1.7	-0.2

y = 9.9895E-005 * x + 3.4585E-006
R = 1.0000
DL = 0.09532 ppb
BEC = 0.03462 ppb

Weight: <None>
Min Conc: <None>

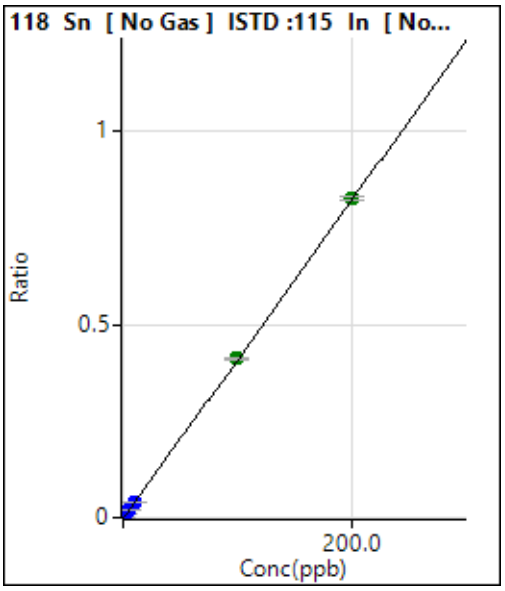


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2.12	0.0000	P	1767.2	
2	☐	2.000	1.989	11652.29	0.0024	P	7.3	-0.5
3	☐	5.000	4.895	28351.58	0.0059	P	3.0	-2.1
4	☐	10.000	9.976	57393.26	0.0121	P	1.1	-0.2
5	☐	100.000	99.788	555905.83	0.1213	P	1.9	-0.2
6	☐	200.000	200.110	1080698.31	0.2432	A	2.2	0.1

y = 0.0012 * x + 4.2489E-007
R = 1.0000
DL = 0.01854 ppb
BEC = 0.0003496 ppb

Weight: <None>
Min Conc: <None>

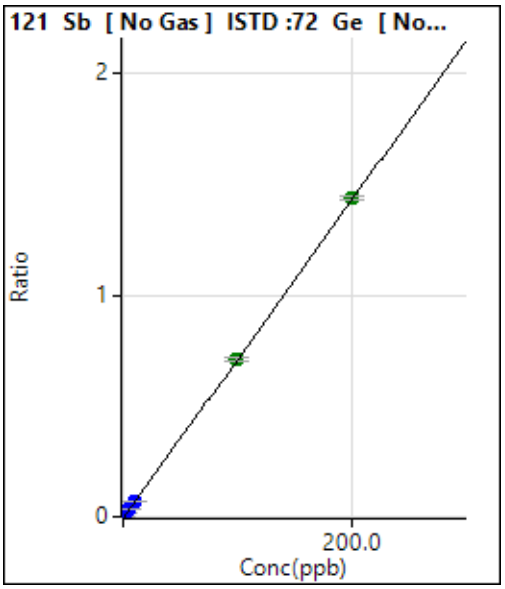
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5994.83	0.0012	P	4.0	
2	☐	2.000	1.988	45454.68	0.0094	P	2.0	-0.6
3	☐	5.000	4.816	100455.34	0.0211	P	3.8	-3.7
4	☐	10.000	9.731	195611.74	0.0413	P	2.3	-2.7
5	☐	100.000	99.480	1883908.35	0.4110	A	1.7	-0.5
6	☐	200.000	200.278	3671235.88	0.8261	A	1.5	0.1

y = 0.0041 * x + 0.0012
R = 1.0000
DL = 0.03613 ppb
BEC = 0.3015 ppb

Weight: <None>
Min Conc: <None>

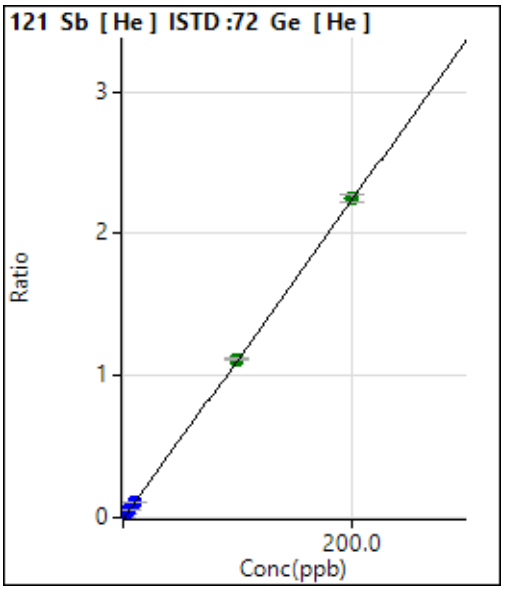


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	630.03	0.0002	P	21.1	
2	☐	2.000	1.992	52115.90	0.0145	P	3.5	-0.4
3	☐	5.000	4.865	125139.38	0.0351	P	2.2	-2.7
4	☐	10.000	9.981	253345.43	0.0719	P	2.1	-0.2
5	☐	100.000	99.149	2462252.41	0.7125	A	1.9	-0.9
6	☐	200.000	200.430	4824383.26	1.4402	A	1.0	0.2

y = 0.0072 * x + 1.7372E-004
R = 1.0000
DL = 0.01532 ppb
BEC = 0.02418 ppb

Weight: <None>
Min Conc: <None>

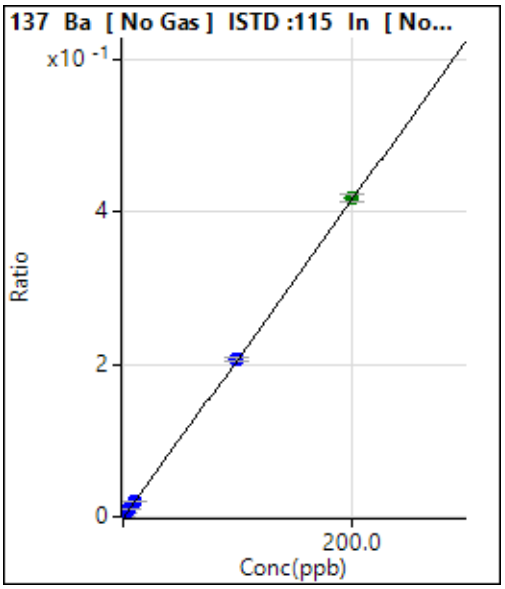
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	333.34	0.0003	P	5.2	
2	☐	2.000	1.890	22001.94	0.0216	P	2.1	-5.5
3	☐	5.000	4.610	52915.74	0.0521	P	5.0	-7.8
4	☐	10.000	9.876	112712.84	0.1112	P	1.2	-1.2
5	☐	100.000	99.363	1102755.27	1.1159	A	1.4	-0.6
6	☐	200.000	200.336	2189283.67	2.2496	A	2.8	0.2

y = 0.0112 * x + 3.2553E-004
R = 1.0000
DL = 0.004501 ppb
BEC = 0.02899 ppb

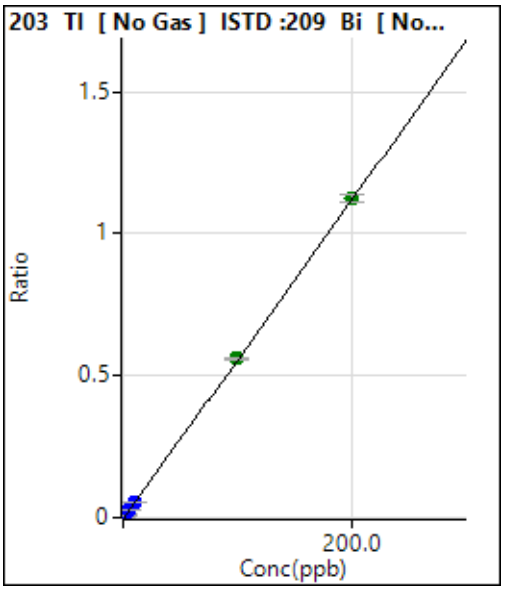
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	750.04	0.0002	P	8.0	
2	☐	2.000	2.225	23080.65	0.0048	P	3.5	11.3
3	☐	5.000	4.883	49202.37	0.0103	P	1.8	-2.3
4	☐	10.000	9.822	97567.53	0.0206	P	2.7	-1.8
5	☐	100.000	99.103	946776.08	0.2065	P	2.4	-0.9
6	☐	200.000	200.458	1855807.79	0.4176	A	2.3	0.2

y = 0.0021 * x + 1.5540E-004
R = 1.0000
DL = 0.01794 ppb
BEC = 0.07462 ppb

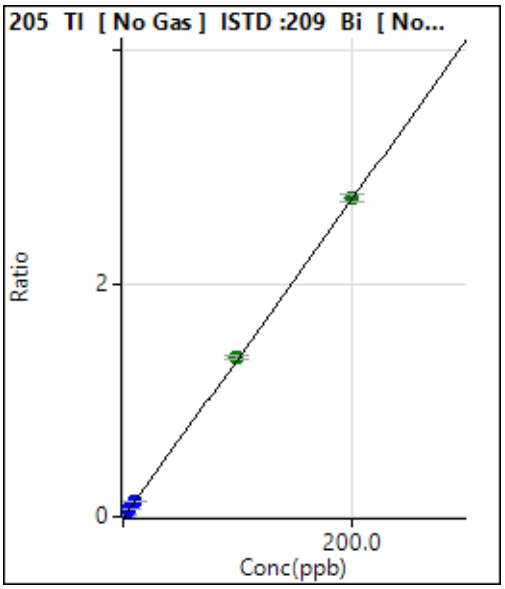
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	966.73	0.0002	P	15.3	
2	☐	2.000	1.759	50916.07	0.0101	P	2.4	-12.0
3	☐	5.000	4.852	137122.61	0.0275	P	0.8	-3.0
4	☐	10.000	9.607	270114.98	0.0542	P	1.3	-3.9
5	☐	100.000	99.642	2698179.02	0.5600	A	2.0	-0.4
6	☐	200.000	200.205	5248397.11	1.1250	A	2.0	0.1

y = 0.0056 * x + 1.9170E-004
R = 1.0000
DL = 0.01567 ppb
BEC = 0.03412 ppb

Weight: <None>
Min Conc: <None>

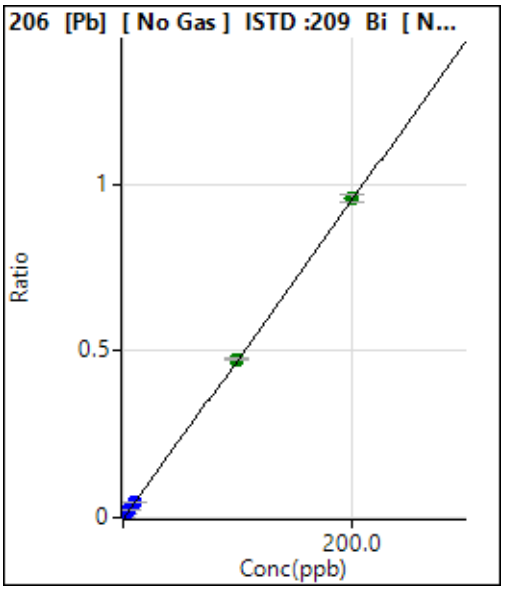


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2420.28	0.0005	P	10.6	
2	☐	2.000	1.718	121094.16	0.0240	P	2.2	-14.1
3	☐	5.000	4.694	322862.55	0.0646	P	2.3	-6.1
4	☐	10.000	9.378	641550.62	0.1287	P	1.4	-6.2
5	☐	100.000	99.843	6577152.19	1.3651	A	1.9	-0.2
6	☐	200.000	200.120	12762014.39	2.7357	A	2.3	0.1

y = 0.0137 * x + 4.8003E-004
R = 1.0000
DL = 0.01114 ppb
BEC = 0.03512 ppb

Weight: <None>
Min Conc: <None>

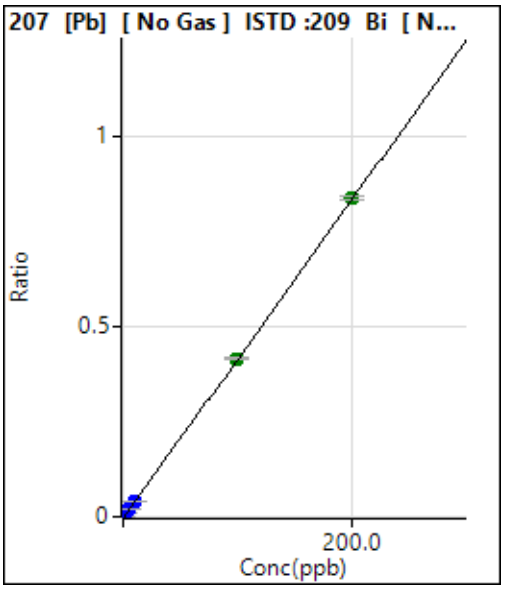
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1310.10	0.0003	P	12.9	
2	☐	2.000	1.931	48008.39	0.0095	P	2.5	-3.4
3	☐	5.000	4.813	116313.41	0.0233	P	2.4	-3.7
4	☐	10.000	9.862	236588.30	0.0474	P	1.1	-1.4
5	☐	100.000	99.202	2287999.70	0.4749	A	1.1	-0.8
6	☐	200.000	200.411	4474287.64	0.9591	A	2.4	0.2

y = 0.0048 * x + 2.5998E-004
R = 1.0000
DL = 0.02109 ppb
BEC = 0.05434 ppb

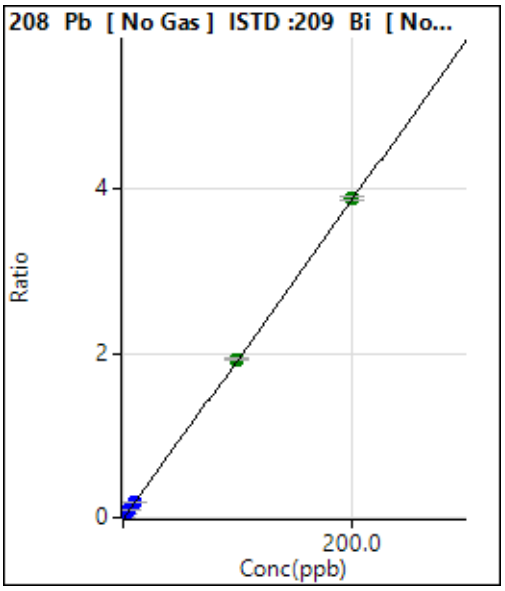
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1053.40	0.0002	P	18.4	
2	☐	2.000	1.990	43057.33	0.0085	P	3.7	-0.5
3	☐	5.000	4.830	101819.59	0.0204	P	2.3	-3.4
4	☐	10.000	9.895	207160.69	0.0415	P	0.8	-1.1
5	☐	100.000	99.405	2001749.35	0.4155	A	1.1	-0.6
6	☐	200.000	200.307	3904667.86	0.8370	A	1.4	0.2

y = 0.0042 * x + 2.0889E-004
R = 1.0000
DL = 0.02763 ppb
BEC = 0.05 ppb

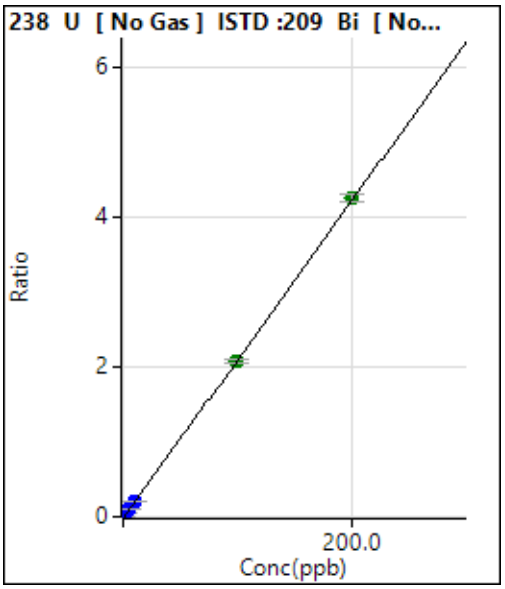
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4887.13	0.0010	P	5.0	
2	☐	2.000	1.935	194683.53	0.0385	P	2.2	-3.2
3	☐	5.000	4.764	466644.01	0.0934	P	2.5	-4.7
4	☐	10.000	9.801	953267.28	0.1912	P	1.1	-2.0
5	☐	100.000	99.403	9298822.52	1.9300	A	1.5	-0.6
6	☐	200.000	200.315	18139288.68	3.8883	A	1.8	0.2

y = 0.0194 * x + 9.6954E-004
R = 1.0000
DL = 0.007453 ppb
BEC = 0.04996 ppb

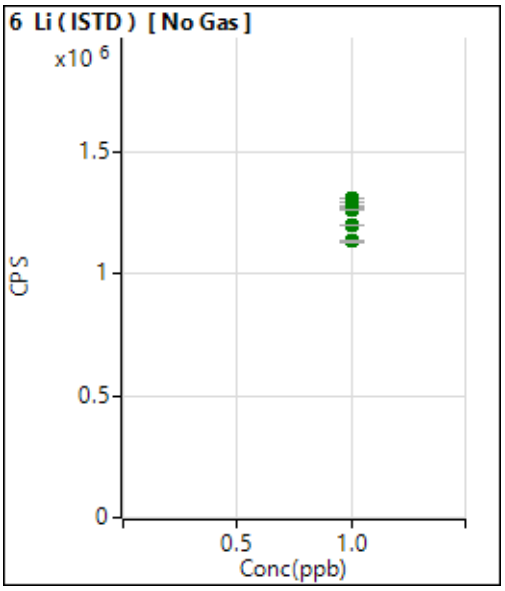
Weight: <None>
Min Conc: <None>



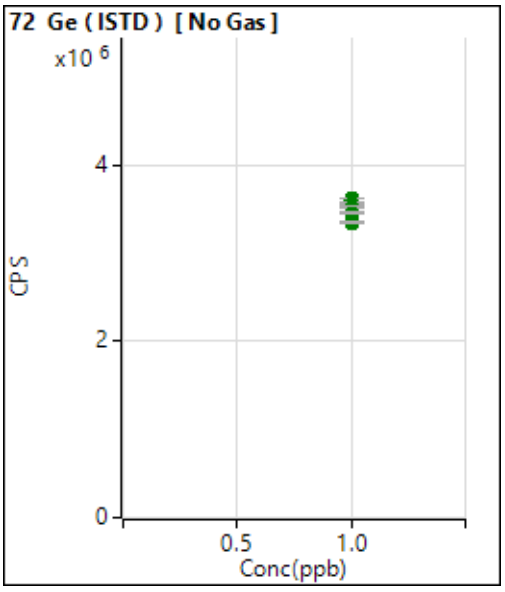
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3043.77	0.0006	P	2.2	
2	☐	2.000	1.849	201086.55	0.0398	P	2.5	-7.6
3	☐	5.000	4.635	493778.96	0.0989	P	1.9	-7.3
4	☐	10.000	9.453	1002347.72	0.2010	P	2.1	-5.5
5	☐	100.000	98.280	10041080.06	2.0841	A	1.9	-1.7
6	☐	200.000	200.898	19870878.87	4.2595	A	2.0	0.4

y = 0.0212 * x + 6.0384E-004
R = 1.0000
DL = 0.001907 ppb
BEC = 0.02848 ppb

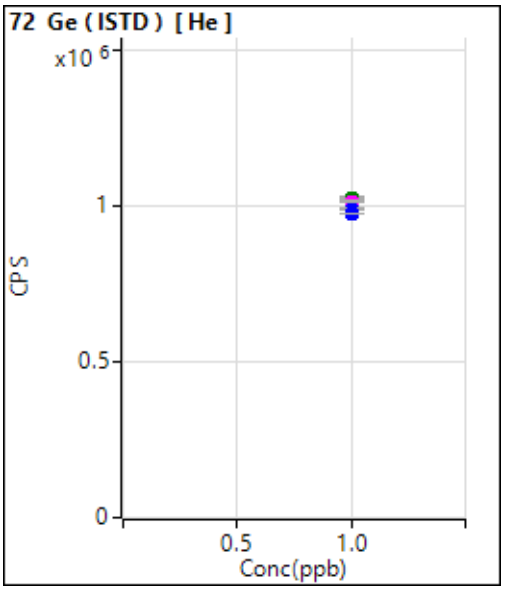
Weight: <None>
Min Conc: <None>



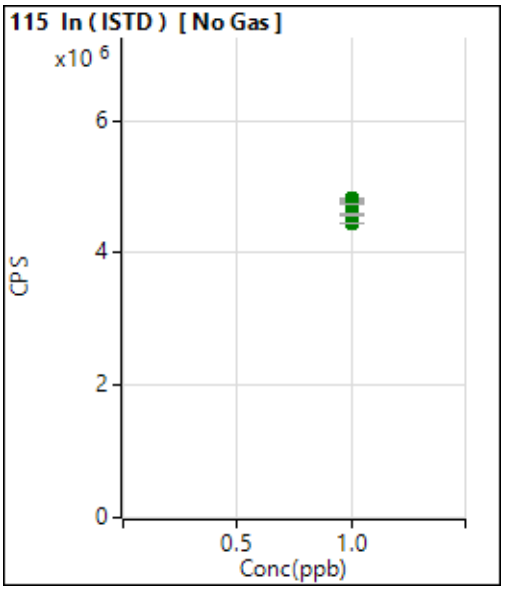
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1311505.51		A	0.4	
2	☐	1.000		1296398.91		A	0.1	
3	☐	1.000		1278167.75		A	0.4	
4	☐	1.000		1261653.96		A	0.2	
5	☐	1.000		1199454.34		A	0.2	
6	☐	1.000		1134408.06		A	0.7	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		3625271.30		A	0.6	
2	☐	1.000		3598500.99		A	1.0	
3	☐	1.000		3562325.88		A	0.5	
4	☐	1.000		3524402.97		A	0.3	
5	☐	1.000		3455665.26		A	0.5	
6	☐	1.000		3349657.03		A	0.5	

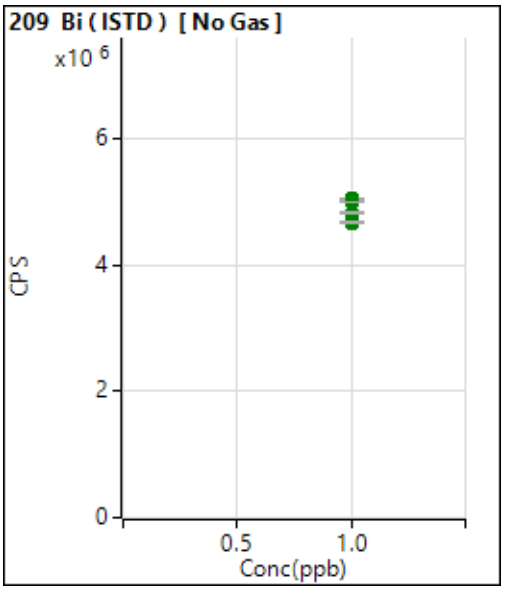


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1024230.63		A	0.8	
2	☐	1.000		1020789.39		M	1.2	
3	☐	1.000		1016078.66		A	0.7	
4	☐	1.000		1013447.93		M	0.6	
5	☐	1.000		988164.15		P	0.5	
6	☐	1.000		973176.52		P	0.2	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4826623.82		A	0.3	
2	☐	1.000		4819854.81		A	0.6	
3	☐	1.000		4765231.99		A	0.2	
4	☐	1.000		4733707.72		A	0.3	
5	☐	1.000		4584168.55		A	0.3	
6	☐	1.000		4443870.86		A	0.1	

Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		5040995.86		A	0.4	
2	☐	1.000		5052988.15		A	0.5	
3	☐	1.000		4994818.26		A	0.3	
4	☐	1.000		4986532.84		A	0.2	
5	☐	1.000		4817898.16		A	0.5	
6	☐	1.000		4665364.62		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\062624A.b
Acq Date Time	2024-06-26T10:42:15-05:00
Sample Type	CalBlk
Level	1
Dilution	1
Comment	

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Li	7	1	No Gas	73766	0.00
Be	9	1	No Gas	152	1.25
V	51	2	He	6458	0.04
Cr	52	2	He	8549	0.02
Fe	56	2	He	15726	0.02
Se	78	2	He	153	6.44
As	75	2	He	276	3.55
Ca	44	2	He	863	1.73
Na	23	2	He	95800	0.00
Mg	24	2	He	1183	0.99
K	39	2	He	96274	0.00
Mn	55	2	He	797	2.62
Co	59	2	He	473	1.57
Ni	60	2	He	327	6.38
Cu	63	2	He	633	1.80
Zn	66	2	He	1080	1.12
Al	27	2	He	1503	1.07
B	11	1	No Gas	18711	0.00
Al	27	1	No Gas	59948	0.00
Si	28	1	No Gas	409186	0.00
Ag	107	1	No Gas	563	3.54
Cd	111	1	No Gas	2	80860.30
Sr	88	1	No Gas	2720	0.04
Mo	95	1	No Gas	180	8.17
Sn	118	1	No Gas	5995	0.07
Sb	121	1	No Gas	630	3.41
Ba	137	1	No Gas	750	1.07
Tl	205	1	No Gas	2420	0.45
Tl	203	1	No Gas	967	1.62
Pb	208	1	No Gas	4887	0.10
U	238	1	No Gas	3044	0.06
Ca	43	2	He	47	115.56
Sb	121	2	He	333	1.37
Ti	47	2	He	7	1299.04
Cu	63	1	No Gas	2580	0.26

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD

Calibration Blank Report

Li	6	1	No Gas	1311506	0.45
Ge	72	2	He	1024231	0.83
Ge	72	1	No Gas	3625271	0.57
In	115	1	No Gas	4826624	0.32

Calibration Blank Report

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Bi	209	1	No Gas	5040996	0.42

Calibration Standard Report

Sample Table

Sample Name	2/10/200
Data File Name	011CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq Date Time	2024-06-26T10:44:58-05:00
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	9258	0.05
V	51	2	He	21895	0.01
Cr	52	2	He	25621	0.00
Fe	56	2	He	1745376	0.00
Se	78	2	He	418	1.43
As	75	2	He	3008	0.06
Ca	44	2	He	11672	0.03
Na	23	2	He	353014	0.00
Mg	24	2	He	163017	0.00
K	39	2	He	293451	0.00
Mn	55	2	He	15095	0.04
Co	59	2	He	27959	0.01
Ni	60	2	He	7389	0.03
Cu	63	2	He	20656	0.01
Zn	66	2	He	5208	0.11
Al	27	2	He	3244	0.30
B	11	1	No Gas	44891	0.00
Al	27	1	No Gas	130487	0.00
Si	28	1	No Gas	531313	0.00
Ag	107	1	No Gas	59111	0.01
Cd	111	1	No Gas	11652	0.06
Sr	88	1	No Gas	115681	0.00
Mo	95	1	No Gas	21401	0.02
Sn	118	1	No Gas	45455	0.00
Sb	121	1	No Gas	52116	0.01
Ba	137	1	No Gas	23081	0.01
Tl	205	1	No Gas	121094	0.00
Tl	203	1	No Gas	50916	0.01
Pb	208	1	No Gas	194684	0.00
U	238	1	No Gas	201087	0.00
Ca	43	2	He	670	1.02
Sb	121	2	He	22002	0.01
Cu	63	1	No Gas	44542	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	1296399	0.10	1311506	98.85	70	120	
Ge	72	2	He	1020789	1.19	1024231	99.66	70	120	
Ge	72	1	No Gas	3598501	1.00	3625271	99.26	70	120	

Calibration Standard Report

In	115	1	No Gas	4819855	0.59	4826624	99.86	70	120	
Bi	209	1	No Gas	5052988	0.47	5040996	100.24	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\062624A.b
Acq Date Time	2024-06-26T10:47:39-05:00
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	22374	0.02
V	51	2	He	43310	0.01
Cr	52	2	He	51335	0.01
Fe	56	2	He	4134671	0.00
Se	78	2	He	782	0.62
As	75	2	He	6593	0.04
Ca	44	2	He	25560	0.01
Na	23	2	He	725631	0.00
Mg	24	2	He	393955	0.00
K	39	2	He	571831	0.00
Mn	55	2	He	34430	0.00
Co	59	2	He	67066	0.00
Ni	60	2	He	17652	0.03
Cu	63	2	He	46385	0.01
Zn	66	2	He	9964	0.03
Al	27	2	He	4071	0.11
B	11	1	No Gas	79278	0.00
Al	27	1	No Gas	162172	0.00
Si	28	1	No Gas	675400	0.00
Ag	107	1	No Gas	146314	0.00
Cd	111	1	No Gas	28352	0.01
Sr	88	1	No Gas	274822	0.00
Mo	95	1	No Gas	52998	0.01
Sn	118	1	No Gas	100455	0.00
Sb	121	1	No Gas	125139	0.00
Ba	137	1	No Gas	49202	0.00
Tl	205	1	No Gas	322863	0.00
Tl	203	1	No Gas	137123	0.00
Pb	208	1	No Gas	466644	0.00
U	238	1	No Gas	493779	0.00
Ca	43	2	He	1420	0.69
Sb	121	2	He	52916	0.01
Cu	63	1	No Gas	105069	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	1278168	0.43	1311506	97.46	70	120	
Ge	72	2	He	1016079	0.65	1024231	99.20	70	120	
Ge	72	1	No Gas	3562326	0.47	3625271	98.26	70	120	

Calibration Standard Report

In	115	1	No Gas	4765232	0.22	4826624	98.73	70	120	
Bi	209	1	No Gas	4994818	0.33	5040996	99.08	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\062624A.b
Acq Date Time	2024-06-26T10:50:20-05:00
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	45561	0.00
V	51	2	He	84157	0.00
Cr	52	2	He	99220	0.00
Fe	56	2	He	8848571	0.00
Se	78	2	He	1492	0.15
As	75	2	He	14023	0.01
Ca	44	2	He	53995	0.00
Na	23	2	He	1443042	0.00
Mg	24	2	He	836661	0.00
K	39	2	He	1111672	0.00
Mn	55	2	He	73348	0.00
Co	59	2	He	143134	0.00
Ni	60	2	He	36963	0.02
Cu	63	2	He	98121	0.00
Zn	66	2	He	18600	0.01
Al	27	2	He	7175	0.02
B	11	1	No Gas	143787	0.00
Al	27	1	No Gas	276086	0.00
Si	28	1	No Gas	942178	0.00
Ag	107	1	No Gas	295295	0.00
Cd	111	1	No Gas	57393	0.00
Sr	88	1	No Gas	558292	0.00
Mo	95	1	No Gas	108290	0.00
Sn	118	1	No Gas	195612	0.00
Sb	121	1	No Gas	253345	0.00
Ba	137	1	No Gas	97568	0.00
Tl	205	1	No Gas	641551	0.00
Tl	203	1	No Gas	270115	0.00
Pb	208	1	No Gas	953267	0.00
U	238	1	No Gas	1002348	0.00
Ca	43	2	He	3054	0.20
Sb	121	2	He	112713	0.00
Cu	63	1	No Gas	208125	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	1261654	0.20	1311506	96.20	70	120	
Ge	72	2	He	1013448	0.56	1024231	98.95	70	120	
Ge	72	1	No Gas	3524403	0.32	3625271	97.22	70	120	

Calibration Standard Report

In	115	1	No Gas	4733708	0.27	4826624	98.07	70	120	
Bi	209	1	No Gas	4986533	0.17	5040996	98.92	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\062624A.b
Acq Date Time	2024-06-26T10:53:00-05:00
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	438437	0.00
V	51	2	He	780977	0.00
Cr	52	2	He	884236	0.00
Fe	56	2	He	86135269	0.00
Se	78	2	He	13360	0.02
As	75	2	He	136005	0.00
Ca	44	2	He	520925	0.00
Na	23	2	He	13217808	0.00
Mg	24	2	He	8181836	0.00
K	39	2	He	10054267	0.00
Mn	55	2	He	704323	0.00
Co	59	2	He	1378711	0.00
Ni	60	2	He	353702	0.00
Cu	63	2	He	937572	0.00
Zn	66	2	He	174511	0.00
Al	27	2	He	54623	0.01
B	11	1	No Gas	1230939	0.00
Al	27	1	No Gas	2066305	0.00
Si	28	1	No Gas	5540167	0.00
Ag	107	1	No Gas	2794774	0.00
Cd	111	1	No Gas	549564	0.00
Sr	88	1	No Gas	5465713	0.00
Mo	95	1	No Gas	1048424	0.00
Sn	118	1	No Gas	1846912	0.00
Sb	121	1	No Gas	2414256	0.00
Ba	137	1	No Gas	931776	0.00
Tl	205	1	No Gas	6527912	0.00
Tl	203	1	No Gas	2677534	0.00
Pb	208	1	No Gas	9036795	0.00
U	238	1	No Gas	9844995	0.00
Ca	43	2	He	30771	0.01
Sb	121	2	He	1086596	0.00
Cu	63	1	No Gas	1925848	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	1199804	0.86	1311506	91.48	70	120	
Ge	72	2	He	991120	0.62	1024231	96.77	70	120	
Ge	72	1	No Gas	3419623	1.02	3625271	94.33	70	120	

Calibration Standard Report

In	115	1	No Gas	4559231	1.01	4826624	94.46	70	120	
Bi	209	1	No Gas	4766725	0.73	5040996	94.56	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\062624A.b
Acq Date Time	2024-06-26T10:55:37-05:00
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	817241	0.00
V	51	2	He	1390010	0.00
Cr	52	2	He	1567590	0.00
Fe	56	2	He	152570694	0.00
Se	78	2	He	23825	0.01
As	75	2	He	245444	0.00
Ca	44	2	He	917403	0.00
Na	23	2	He	23642475	0.00
Mg	24	2	He	14414825	0.00
K	39	2	He	18019990	0.00
Mn	55	2	He	1233953	0.00
Co	59	2	He	2427490	0.00
Ni	60	2	He	624570	0.00
Cu	63	2	He	1656046	0.00
Zn	66	2	He	308434	0.00
Al	27	2	He	95010	0.01
B	11	1	No Gas	2345911	0.00
Al	27	1	No Gas	3821074	0.00
Si	28	1	No Gas	10015220	0.00
Ag	107	1	No Gas	5253095	0.00
Cd	111	1	No Gas	1033290	0.00
Sr	88	1	No Gas	10447917	0.00
Mo	95	1	No Gas	2011616	0.00
Sn	118	1	No Gas	3501678	0.00
Sb	121	1	No Gas	4613875	0.00
Ba	137	1	No Gas	1761568	0.00
Tl	205	1	No Gas	12296686	0.00
Tl	203	1	No Gas	5036372	0.00
Pb	208	1	No Gas	17369800	0.00
U	238	1	No Gas	19040135	0.00
Ca	43	2	He	55042	0.01
Sb	121	2	He	1942208	0.00
Cu	63	1	No Gas	3594160	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	1149741	1.25	1311506	87.67	70	120	
Ge	72	2	He	980532	0.26	1024231	95.73	70	120	
Ge	72	1	No Gas	3348719	0.89	3625271	92.37	70	120	

Calibration Standard Report

In	115	1	No Gas	4489168	0.54	4826624	93.01	70	120	
Bi	209	1	No Gas	4657439	0.91	5040996	92.39	70	120	

Calibration Standard Report

Sample Table

Sample Name	100/500/10K
Data File Name	018CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq Date Time	2024-06-26T11:06:59-05:00
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	439243	0.00
V	51	2	He	793395	0.00
Cr	52	2	He	898049	0.00
Fe	56	2	He	87995329	0.00
Se	78	2	He	13672	0.01
As	75	2	He	137683	0.00
Ca	44	2	He	529957	0.00
Na	23	2	He	13562842	0.00
Mg	24	2	He	8355099	0.00
K	39	2	He	10326336	0.00
Mn	55	2	He	718660	0.00
Co	59	2	He	1393368	0.00
Ni	60	2	He	359924	0.00
Cu	63	2	He	948808	0.00
Zn	66	2	He	175069	0.00
Al	27	2	He	56179	0.01
B	11	1	No Gas	1241149	0.00
Al	27	1	No Gas	2108614	0.00
Si	28	1	No Gas	5629440	0.00
Ag	107	1	No Gas	2837640	0.00
Cd	111	1	No Gas	555906	0.00
Sr	88	1	No Gas	5622582	0.00
Mo	95	1	No Gas	1063037	0.00
Sn	118	1	No Gas	1883908	0.00
Sb	121	1	No Gas	2462252	0.00
Ba	137	1	No Gas	946776	0.00
Tl	205	1	No Gas	6577152	0.00
Tl	203	1	No Gas	2698179	0.00
Pb	208	1	No Gas	9298823	0.00
U	238	1	No Gas	10041080	0.00
Ca	43	2	He	31352	0.01
Sb	121	2	He	1102755	0.00
Cu	63	1	No Gas	1959324	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	1199454	0.20	1311506	91.46	70	120	
Ge	72	2	He	988164	0.54	1024231	96.48	70	120	
Ge	72	1	No Gas	3455665	0.51	3625271	95.32	70	120	

Calibration Standard Report

In	115	1	No Gas	4584169	0.31	4826624	94.98	70	120	
Bi	209	1	No Gas	4817898	0.54	5040996	95.57	70	120	

Calibration Standard Report

Sample Table

Sample Name	200/1000/20K
Data File Name	019CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq Date Time	2024-06-26T11:09:29-05:00
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	843817	0.00
V	51	2	He	1545285	0.00
Cr	52	2	He	1743352	0.00
Fe	56	2	He	169492937	0.00
Se	78	2	He	26583	0.01
As	75	2	He	266474	0.00
Ca	44	2	He	1032824	0.00
Na	23	2	He	26127261	0.00
Mg	24	2	He	16108926	0.00
K	39	2	He	19779666	0.00
Mn	55	2	He	1377897	0.00
Co	59	2	He	2700155	0.00
Ni	60	2	He	691304	0.00
Cu	63	2	He	1833855	0.00
Zn	66	2	He	338842	0.00
Al	27	2	He	105779	0.00
B	11	1	No Gas	2411542	0.00
Al	27	1	No Gas	3998174	0.00
Si	28	1	No Gas	10398479	0.00
Ag	107	1	No Gas	5436208	0.00
Cd	111	1	No Gas	1080698	0.00
Sr	88	1	No Gas	10854979	0.00
Mo	95	1	No Gas	2083281	0.00
Sn	118	1	No Gas	3671236	0.00
Sb	121	1	No Gas	4824383	0.00
Ba	137	1	No Gas	1855808	0.00
Tl	205	1	No Gas	12762014	0.00
Tl	203	1	No Gas	5248397	0.00
Pb	208	1	No Gas	18139289	0.00
U	238	1	No Gas	19870879	0.00
Ca	43	2	He	60033	0.01
Sb	121	2	He	2189284	0.00
Cu	63	1	No Gas	3754985	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	1134408	0.74	1311506	86.50	70	120	
Ge	72	2	He	973177	0.24	1024231	95.02	70	120	
Ge	72	1	No Gas	3349657	0.47	3625271	92.40	70	120	

Calibration Standard Report

In	115	1	No Gas	4443871	0.12	4826624	92.07	70	120	
Bi	209	1	No Gas	4665365	0.67	5040996	92.55	70	120	

Initial Calibration Verification (ICV) Report

Sample Table

Sample Name	ICV
Data File Name	021_ICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq Date Time	2024-06-26T11:15:11-05:00
Sample Type	ICV
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Li	7	1	No Gas	100.222	1.855	1802956	1.92	100	100.2	90	110	
Be	9	1	No Gas	100.898	2.239	433580	2.32	100	100.9	90	110	
V	51	2	He	101.096	1.292	796454	1.08	100	101.1	90	110	
Cr	52	2	He	101.532	1.174	903539	0.92	100	101.5	90	110	
Fe	56	2	He	10173.860	1.246	87853115	1.07	10000	101.7	90	110	
Se	78	2	He	99.460	0.831	13503	0.54	100	99.5	90	110	
As	75	2	He	101.756	1.164	138100	0.98	100	101.8	90	110	
Ca	44	2	He	10094.252	1.876	530162	1.60	10000	100.9	90	110	
Na	23	2	He	10127.308	2.189	13515515	2.12	10000	101.3	90	110	
Mg	24	2	He	10171.308	1.682	8345853	1.61	10000	101.7	90	110	
K	39	2	He	10099.196	1.567	10224257	1.37	10000	101.0	90	110	
Mn	55	2	He	101.635	1.566	714402	1.38	100	101.6	90	110	
Co	59	2	He	101.991	1.665	1401468	1.61	100	102.0	90	110	
Ni	60	2	He	102.173	1.423	360180	1.29	100	102.2	90	110	
Cu	63	2	He	102.151	1.931	953945	1.76	100	102.2	90	110	
Zn	66	2	He	102.900	1.013	177857	0.77	100	102.9	90	110	
Al	27	2	He	99.810	4.378	54626	4.19	100	99.8	90	110	
B	11	1	No Gas	502.893	1.140	1221090	1.24	500	100.6	90	110	
Al	27	1	No Gas	100.878	2.414	2085315	2.17	100	100.9	90	110	
Si	28	1	No Gas	502.785	2.747	5529521	2.04	500	100.6	90	110	
Ag	107	1	No Gas	100.264	2.028	2813301	2.04	100	100.3	90	110	
Cd	111	1	No Gas	99.886	1.075	555466	1.12	100	99.9	90	110	
Sr	88	1	No Gas	99.437	1.619	5562432	1.73	100	99.4	90	110	
Mo	95	1	No Gas	98.573	1.962	1055026	2.08	100	98.6	90	110	
Sn	118	1	No Gas	99.497	1.347	1880896	1.41	100	99.5	90	110	
Sb	121	1	No Gas	99.766	2.203	2445623	2.01	100	99.8	90	110	
Ba	137	1	No Gas	98.859	1.904	942793	2.06	100	98.9	90	110	
Tl	205	1	No Gas	101.042	2.224	6657688	2.66	100	101.0	90	110	
Tl	203	1	No Gas	100.849	2.138	2731479	2.50	100	100.8	90	110	
Pb	208	1	No Gas	99.701	2.350	9329071	2.83	100	99.7	90	110	
U	238	1	No Gas	98.308	1.773	10046433	2.27	100	98.3	90	110	
Ca	43	2	He	10197.790	1.545	31239	1.31	10000	102.0	90	110	
Sb	121	2	He	99.342	1.339	1101363	1.26	100	99.3	90	110	
Ti	47	2	He	102.476	0.481	30891	0.73	100	102.5	90	110	
Cu	63	1	No Gas	101.583	2.116	1947780	2.09	100	101.6	90	110	
Se	82	1	No Gas	99.278	1.073	33204	1.19	100	99.3	90	110	
Zr	90	1	No Gas	97.875	2.145	3480387	2.35	100	97.9	90	110	
Zr	90	2	He	98.920	2.012	1388252	1.92	100	98.9	90	1100	

QC ISTD Table

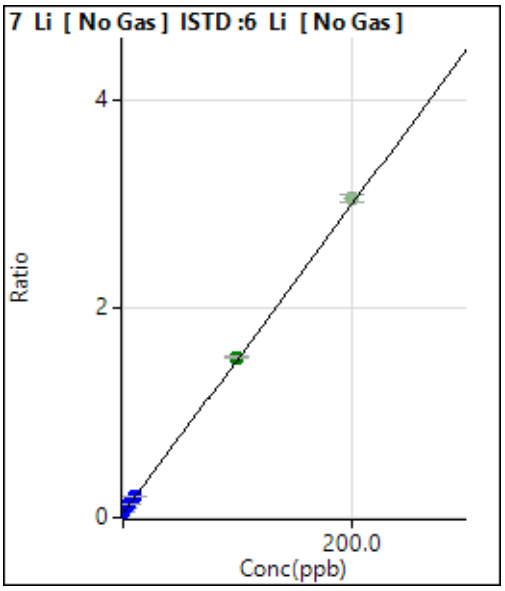
Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1173827	0.16	1311506	89.50	70	120	
Ge	72	2	He	987170	0.29	1024231	96.38	70	120	
Ge	72	1	No Gas	3411266	0.96	3625271	94.10	70	120	
In	115	1	No Gas	4575856	0.33	4826624	94.80	70	120	
Bi	209	1	No Gas	4818893	0.55	5040996	95.59	70	120	

Calibration for 021_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\062624A.b\
Analysis File: 062624A.batch.bin
DA Date-Time: 6/26/2024 11:25:02 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	010CALB.d	CAL BLK	6/26/2024 10:42:15 AM
2	011CALS.d	2/10/200	6/26/2024 10:44:58 AM
3	012CALS.d	5/25/500	6/26/2024 10:47:39 AM
4	013CALS.d	10/50/100	6/26/2024 10:50:20 AM
5	018CALS.d	100/500/10K	6/26/2024 11:06:59 AM
6	019CALS.d	200/1000/20K	6/26/2024 11:09:29 AM

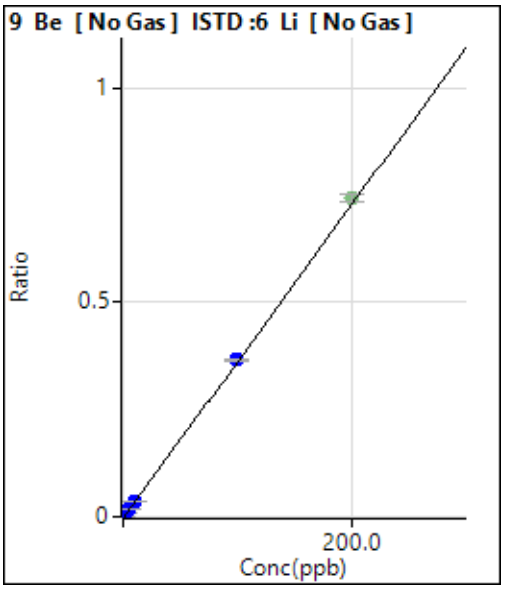
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	73766.09	0.0562	P	1.0	
2	☐	2.000	1.894	109167.18	0.0842	P	0.9	-5.3
3	☐	5.000	4.769	161883.22	0.1267	P	1.5	-4.6
4	☐	10.000	9.751	252585.33	0.2002	P	1.7	-2.5
5	☐	100.000	100.039	1839078.05	1.5332	A	1.4	0.0
6	☑	200.000		3466147.03	3.0558	A	2.3	

y = 0.0148 * x + 0.0562
R = 1.0000
DL = 0.1166 ppb
BEC = 3.81 ppb

Weight: <None>
Min Conc: <None>

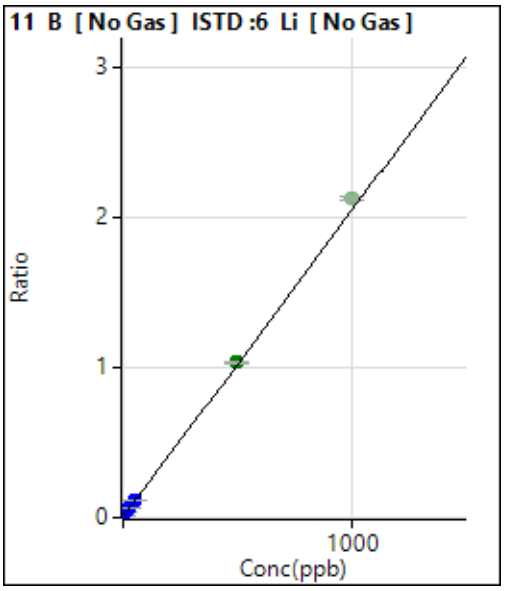


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	151.67	0.0001	P	1.5	
2	☐	2.000	1.920	9258.07	0.0071	P	4.9	-4.0
3	☐	5.000	4.751	22374.32	0.0175	P	3.2	-5.0
4	☐	10.000	9.836	45561.00	0.0361	P	2.1	-1.6
5	☐	100.000	100.030	439242.92	0.3662	P	1.8	0.0
6	☑	200.000		843817.41	0.7439	A	2.9	

y = 0.0037 * x + 1.1564E-004
R = 1.0000
DL = 0.001434 ppb
BEC = 0.0316 ppb

Weight: <None>
Min Conc: <None>

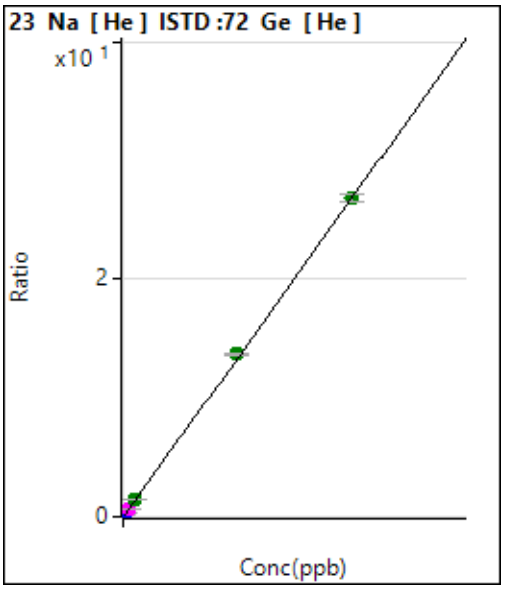
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	18710.69	0.0143	P	0.2	
2	☐	10.000	9.980	44891.16	0.0346	P	2.1	-0.2
3	☐	25.000	23.408	79277.84	0.0620	P	2.1	-6.4
4	☐	50.000	48.870	143787.28	0.1140	P	1.6	-2.3
5	☐	500.000	500.193	1241149.15	1.0347	A	1.0	0.0
6	☑	1000.000		2411542.31	2.1260	A	1.8	

y = 0.0020 * x + 0.0143
R = 1.0000
DL = 0.04583 ppb
BEC = 6.993 ppb

Weight: <None>
Min Conc: <None>

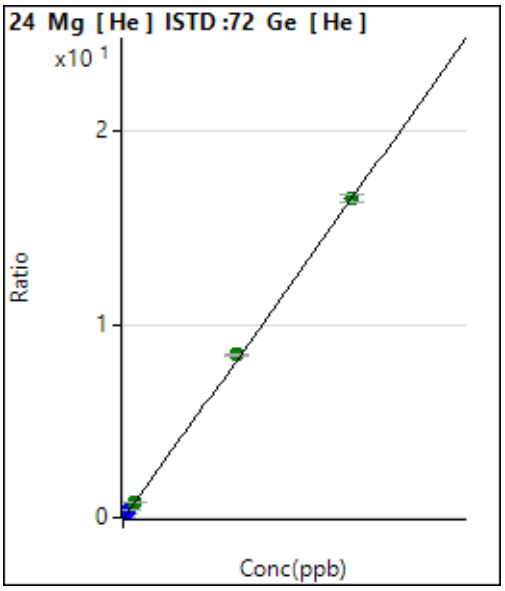


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	95799.83	0.0935	P	1.4	
2	☐	200.000	187.897	353013.68	0.3458	P	1.4	-6.1
3	☐	500.000	462.260	725631.21	0.7142	M	3.3	-7.5
4	☐	1000.000	990.753	1443041.90	1.4238	A	1.6	-0.9
5	☐	10000.00	10152.23	13562841.88	13.7248	A	1.1	1.5
6	☐	20000.00	19925.40	26127261.28	26.8471	A	2.0	-0.4

y = 0.0013 * x + 0.0935
R = 1.0000
DL = 2.973 ppb
BEC = 69.67 ppb

Weight: <None>
Min Conc: <None>

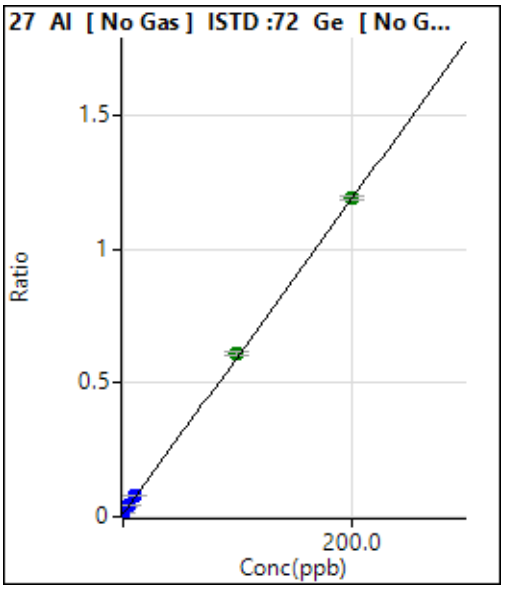
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1183.40	0.0012	P	12.3	
2	☐	200.000	190.743	163017.44	0.1597	P	2.6	-4.6
3	☐	500.000	465.178	393954.77	0.3878	P	3.2	-7.0
4	☐	1000.000	991.890	836660.51	0.8255	A	1.8	-0.8
5	☐	10000.00	10171.81	8355099.04	8.4548	A	1.2	1.7
6	☐	20000.00	19915.46	16108926.43	16.5527	A	2.7	-0.4

y = 8.3109E-004 * x + 0.0012
R = 0.9999
DL = 0.5122 ppb
BEC = 1.391 ppb

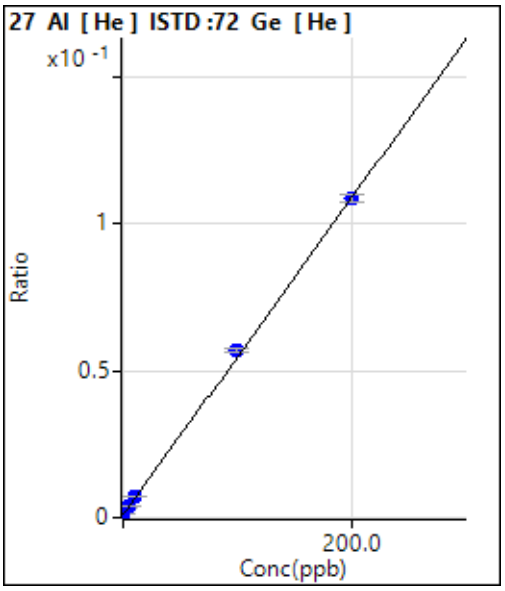
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	59947.83	0.0165	P	1.1	
2	☐	2.000	3.347	130486.80	0.0363	P	3.7	67.3
3	☐	5.000	4.917	162171.59	0.0455	P	1.8	-1.7
4	☐	10.000	10.481	276085.77	0.0783	P	1.8	4.8
5	☐	100.000	100.685	2108614.08	0.6102	A	1.7	0.7
6	☐	200.000	199.622	3998173.79	1.1936	A	1.4	-0.2

y = 0.0059 * x + 0.0165
R = 1.0000
DL = 0.09435 ppb
BEC = 2.804 ppb

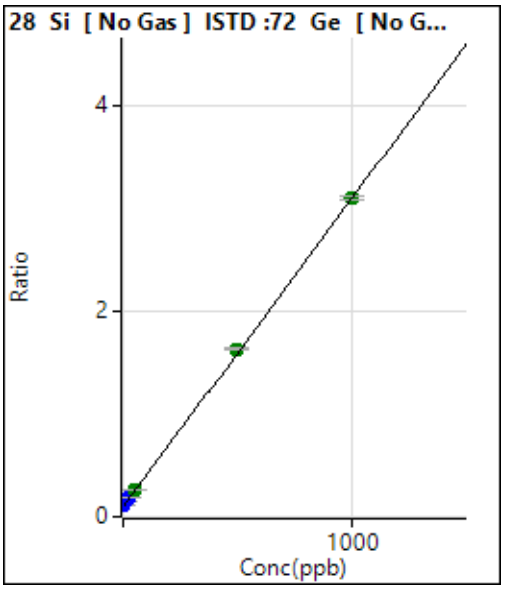
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1503.44	0.0015	P	16.4	
2	☐	2.000	3.164	3243.77	0.0032	P	8.6	58.2
3	☐	5.000	4.704	4070.66	0.0040	P	5.1	-5.9
4	☐	10.000	10.398	7175.28	0.0071	P	0.6	4.0
5	☐	100.000	102.614	56178.74	0.0569	P	3.0	2.6
6	☐	200.000	198.669	105778.78	0.1087	P	2.6	-0.7

y = 5.3971E-004 * x + 0.0015
R = 0.9999
DL = 1.335 ppb
BEC = 2.72 ppb

Weight: <None>
Min Conc: <None>

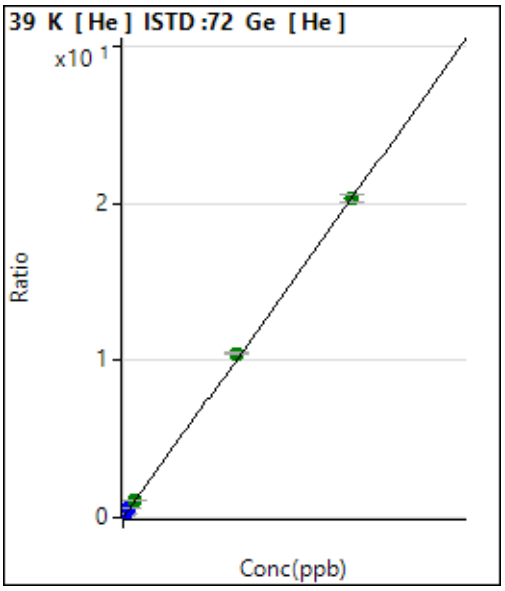


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	409185.78	0.1129	P	1.3	
2	☐	10.000	11.595	531313.48	0.1477	P	1.2	16.0
3	☐	25.000	25.576	675399.63	0.1896	P	1.1	2.3
4	☐	50.000	51.490	942177.72	0.2673	A	1.4	3.0
5	☐	500.000	505.434	5629439.92	1.6291	A	1.4	1.1
6	☐	1000.000	997.178	10398479.43	3.1042	A	1.2	-0.3

y = 0.0030 * x + 0.1129
R = 1.0000
DL = 1.499 ppb
BEC = 37.63 ppb

Weight: <None>
Min Conc: <None>

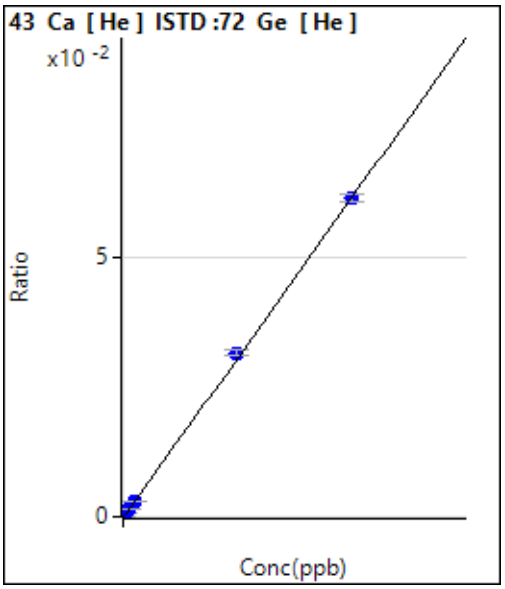
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	96273.60	0.0940	P	0.9	
2	☐	200.000	190.380	293450.63	0.2875	P	1.4	-4.8
3	☐	500.000	461.318	571831.06	0.5628	P	1.6	-7.7
4	☐	1000.000	986.820	1111672.46	1.0969	A	1.6	-1.3
5	☐	10000.00	10189.95	10326336.30	10.4496	A	1.3	1.9
6	☐	20000.00	19906.74	19779665.54	20.3243	A	2.3	-0.5

y = 0.0010 * x + 0.0940
R = 0.9999
DL = 2.521 ppb
BEC = 92.49 ppb

Weight: <None>
Min Conc: <None>

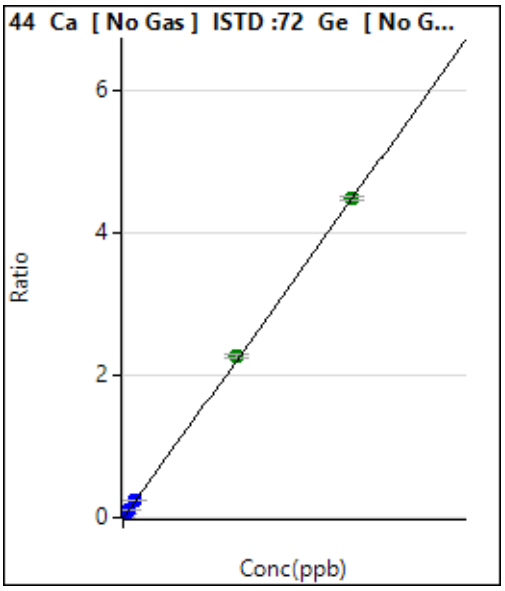


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	46.67	0.0000	P	53.3	
2	☐	200.000	197.281	670.03	0.0007	P	8.0	-1.4
3	☐	500.000	436.412	1420.10	0.0014	P	9.9	-12.7
4	☐	1000.000	957.556	3053.72	0.0030	P	5.7	-4.2
5	☐	10000.00	10223.79	31352.24	0.0317	P	3.0	2.2
6	☐	20000.00	19891.84	60032.57	0.0617	P	2.9	-0.5

y = 3.0987E-006 * x + 4.5465E-005
R = 0.9999
DL = 23.48 ppb
BEC = 14.67 ppb

Weight: <None>
Min Conc: <None>

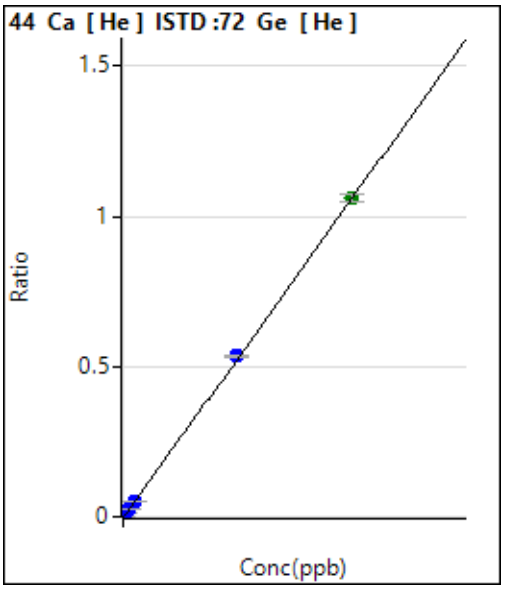
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	38924.97	0.0107	P	1.2	
2	☐	200.000	202.706	202207.96	0.0562	P	3.9	1.4
3	☐	500.000	486.698	427151.40	0.1199	P	2.1	-2.7
4	☐	1000.000	994.165	823782.98	0.2337	P	2.1	-0.6
5	☐	10000.00	10094.04	7861349.67	2.2750	A	1.8	0.9
6	☐	20000.00	19953.57	15029153.94	4.4866	A	1.1	-0.2

y = 2.2432E-004 * x + 0.0107
R = 1.0000
DL = 1.669 ppb
BEC = 47.86 ppb

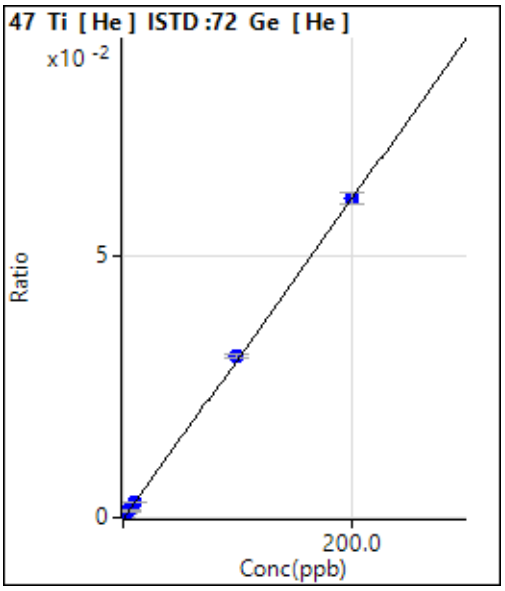
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	863.38	0.0008	P	14.0	
2	☐	200.000	199.401	11671.74	0.0114	P	3.5	-0.3
3	☐	500.000	457.772	25560.40	0.0252	P	4.4	-8.4
4	☐	1000.000	987.118	53995.18	0.0533	P	1.2	-1.3
5	☐	10000.00	10079.51	529956.54	0.5363	P	0.9	0.8
6	☐	20000.00	19961.94	1032824.41	1.0613	A	2.8	-0.2

y = 5.3122E-005 * x + 8.4230E-004
R = 1.0000
DL = 6.667 ppb
BEC = 15.86 ppb

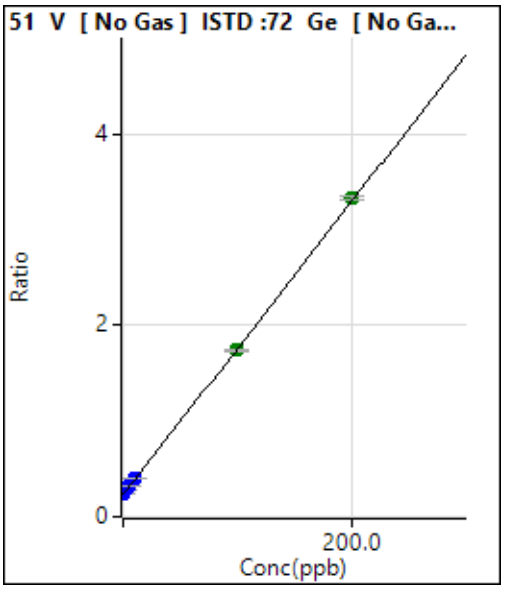
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6.67	0.0000	P	86.6	
2	☐	2.000	2.065	650.02	0.0006	P	9.5	3.2
3	☐	5.000	4.398	1370.10	0.0013	P	16.5	-12.0
4	☐	10.000	9.405	2917.03	0.0029	P	5.6	-5.9
5	☐	100.000	101.126	30517.18	0.0309	P	2.3	1.1
6	☐	200.000	199.481	59276.58	0.0609	P	3.8	-0.3

y = 3.0530E-004 * x + 6.4965E-006
R = 1.0000
DL = 0.05529 ppb
BEC = 0.02128 ppb

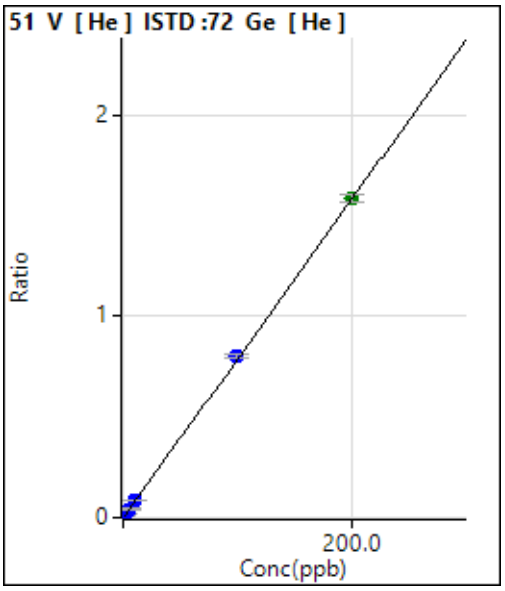
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	898774.18	0.2479	P	0.4	
2	☐	2.000	1.942	998926.92	0.2776	P	2.9	-2.9
3	☐	5.000	4.451	1125876.97	0.3161	P	1.5	-11.0
4	☐	10.000	10.135	1420588.30	0.4031	P	1.3	1.4
5	☐	100.000	97.249	6001487.77	1.7367	A	1.9	-2.8
6	☐	200.000	201.383	11158012.07	3.3310	A	1.3	0.7

y = 0.0153 * x + 0.2479
R = 0.9999
DL = 0.2155 ppb
BEC = 16.19 ppb

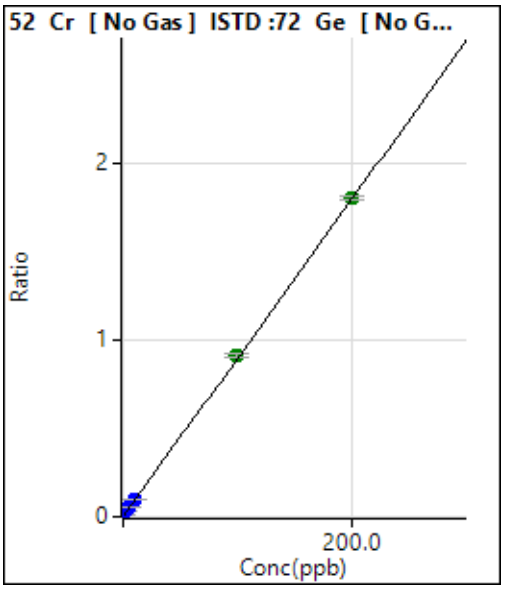
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6458.20	0.0063	P	3.0	
2	☐	2.000	1.912	21895.13	0.0214	P	2.4	-4.4
3	☐	5.000	4.587	43309.59	0.0426	P	3.5	-8.3
4	☐	10.000	9.690	84156.78	0.0830	P	1.7	-3.1
5	☐	100.000	100.595	793394.60	0.8029	P	1.5	0.6
6	☐	200.000	199.729	1545285.35	1.5878	A	2.5	-0.1

y = 0.0079 * x + 0.0063
R = 1.0000
DL = 0.07219 ppb
BEC = 0.7964 ppb

Weight: <None>
Min Conc: <None>

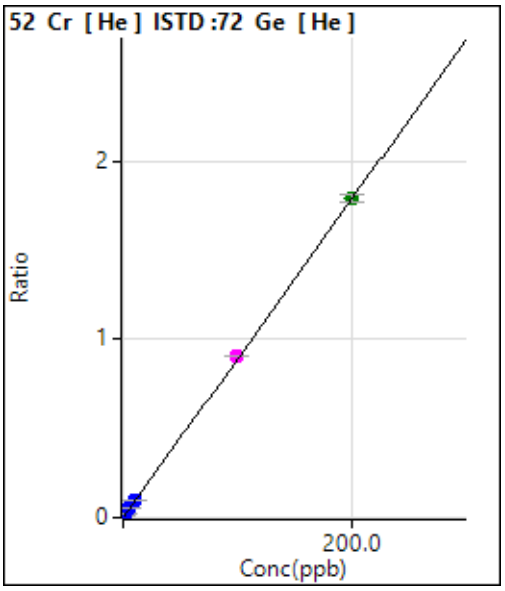


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	38527.15	0.0106	P	1.1	
2	☐	2.000	1.935	100543.18	0.0279	P	4.0	-3.3
3	☐	5.000	4.767	189908.25	0.0533	P	2.3	-4.7
4	☐	10.000	9.750	345108.59	0.0979	P	1.7	-2.5
5	☐	100.000	100.259	3138553.39	0.9083	A	2.1	0.3
6	☐	200.000	199.889	6030638.45	1.8003	A	1.7	-0.1

y = 0.0090 * x + 0.0106
R = 1.0000
DL = 0.04009 ppb
BEC = 1.187 ppb

Weight: <None>
Min Conc: <None>

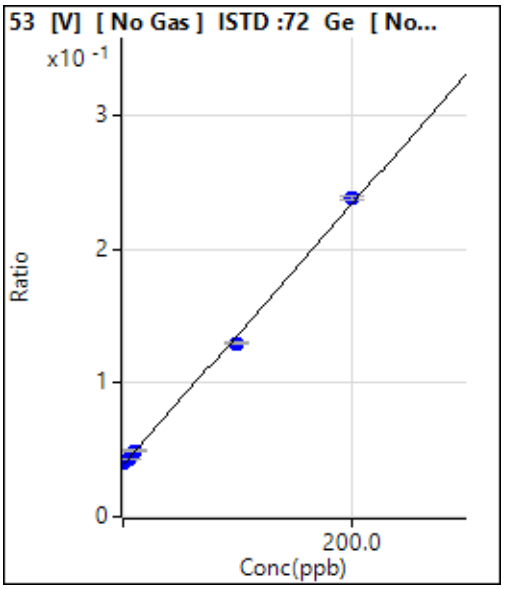
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	8549.46	0.0083	P	1.0	
2	☐	2.000	1.875	25620.65	0.0251	P	0.7	-6.2
3	☐	5.000	4.722	51335.22	0.0505	P	4.7	-5.6
4	☐	10.000	10.025	99219.98	0.0979	P	1.7	0.2
5	☐	100.000	100.803	898049.36	0.9088	M	0.4	0.8
6	☐	200.000	199.605	1743351.59	1.7914	A	2.4	-0.2

y = 0.0089 * x + 0.0083
R = 1.0000
DL = 0.02943 ppb
BEC = 0.9345 ppb

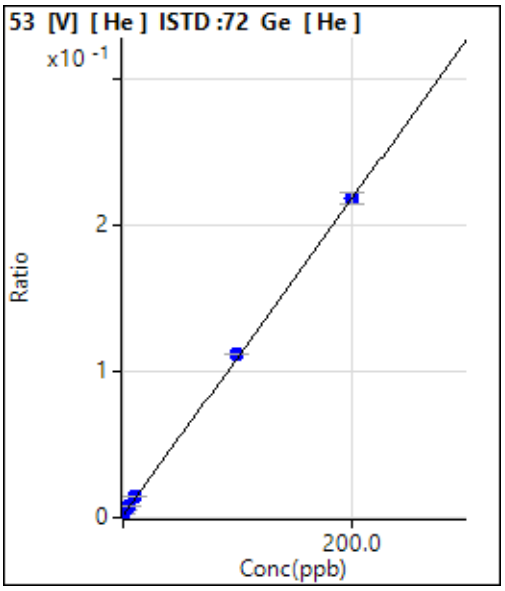
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	145003.04	0.0400	P	0.4	
2	☐	2.000	1.823	150279.69	0.0418	P	2.7	-8.9
3	☐	5.000	3.259	153763.79	0.0432	P	1.3	-34.8
4	☐	10.000	9.700	174195.21	0.0494	P	1.0	-3.0
5	☐	100.000	92.327	448321.17	0.1297	P	1.6	-7.7
6	☐	200.000	203.897	797864.18	0.2382	P	1.3	1.9

y = 9.7199E-004 * x + 0.0400
R = 0.9990
DL = 0.4971 ppb
BEC = 41.15 ppb

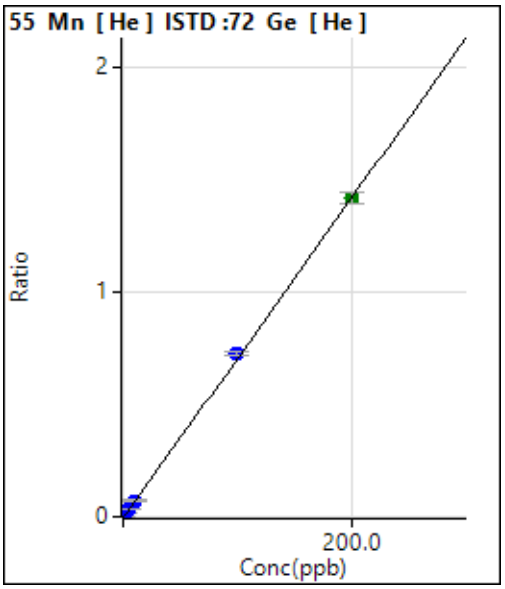
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2686.98	0.0026	P	8.2	
2	☐	2.000	1.934	4814.27	0.0047	P	3.2	-3.3
3	☐	5.000	4.696	7825.72	0.0077	P	6.7	-6.1
4	☐	10.000	10.570	14247.55	0.0141	P	0.5	5.7
5	☐	100.000	101.208	110789.82	0.1121	P	0.5	1.2
6	☐	200.000	199.376	212472.27	0.2183	P	3.2	-0.3

y = 0.0011 * x + 0.0026
R = 1.0000
DL = 0.5932 ppb
BEC = 2.425 ppb

Weight: <None>
Min Conc: <None>

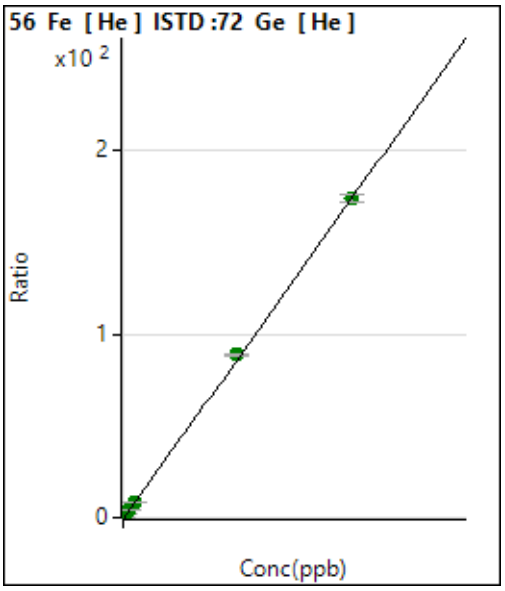


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	796.71	0.0008	P	21.6	
2	☐	2.000	1.969	15095.15	0.0148	P	4.3	-1.6
3	☐	5.000	4.654	34429.88	0.0339	P	0.8	-6.9
4	☐	10.000	10.065	73347.84	0.0724	P	2.3	0.6
5	☐	100.000	102.130	718660.02	0.7272	P	1.8	2.1
6	☐	200.000	198.941	1377896.85	1.4158	A	3.1	-0.5

y = 0.0071 * x + 7.7875E-004
R = 0.9999
DL = 0.07085 ppb
BEC = 0.1095 ppb

Weight: <None>
Min Conc: <None>

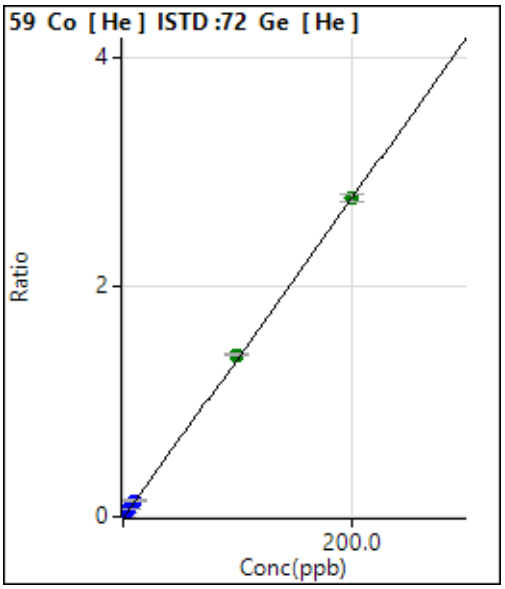
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	15725.88	0.0154	P	2.0	
2	☐	200.000	193.738	1745375.60	1.7098	A	1.8	-3.1
3	☐	500.000	463.555	4134670.77	4.0696	A	3.4	-7.3
4	☐	1000.000	996.475	8848571.12	8.7306	A	1.8	-0.4
5	☐	10000.00	10179.44	87995328.69	89.0452	A	1.4	1.8
6	☐	20000.00	19911.42	169492937.4	174.161	A	2.7	-0.4

y = 0.0087 * x + 0.0154
R = 0.9999
DL = 0.1062 ppb
BEC = 1.755 ppb

Weight: <None>
Min Conc: <None>

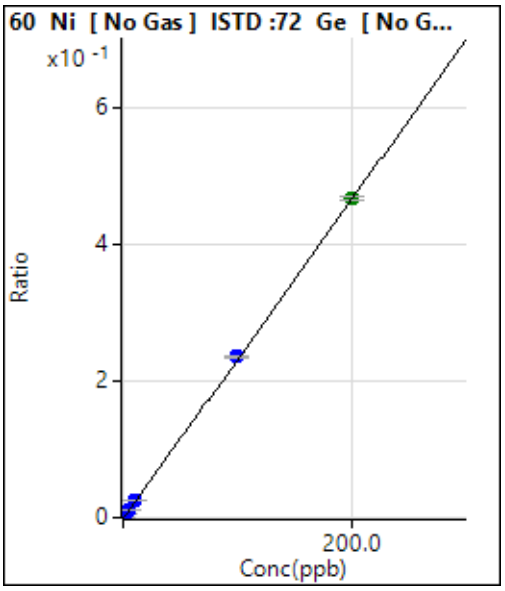


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	473.35	0.0005	P	6.7	
2	☐	2.000	1.935	27958.63	0.0274	P	3.6	-3.3
3	☐	5.000	4.711	67066.13	0.0660	P	2.9	-5.8
4	☐	10.000	10.116	143133.87	0.1412	P	2.4	1.2
5	☐	100.000	101.294	1393368.26	1.4100	A	1.3	1.3
6	☐	200.000	199.355	2700154.85	2.7745	A	2.0	-0.3

y = 0.0139 * x + 4.6201E-004
R = 1.0000
DL = 0.006679 ppb
BEC = 0.0332 ppb

Weight: <None>
Min Conc: <None>

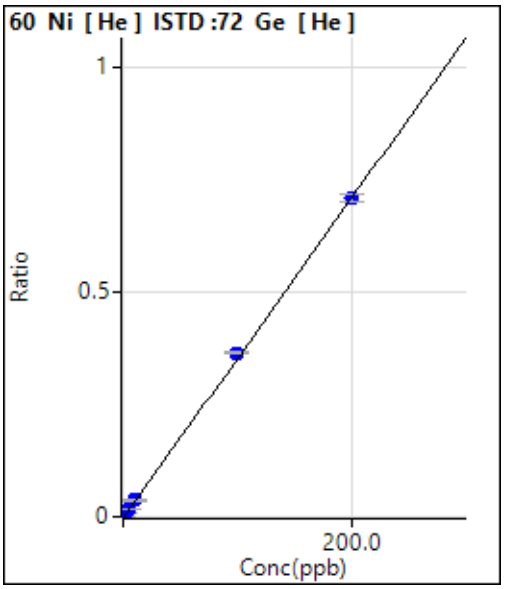
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1140.07	0.0003	P	12.1	
2	☐	2.000	2.089	18719.66	0.0052	P	4.2	4.5
3	☐	5.000	4.963	42488.93	0.0119	P	1.5	-0.7
4	☐	10.000	10.242	85568.15	0.0243	P	1.6	2.4
5	☐	100.000	100.481	813536.68	0.2354	P	2.1	0.5
6	☐	200.000	199.747	1566698.83	0.4677	A	1.4	-0.1

y = 0.0023 * x + 3.1434E-004
R = 1.0000
DL = 0.04884 ppb
BEC = 0.1343 ppb

Weight: <None>
Min Conc: <None>

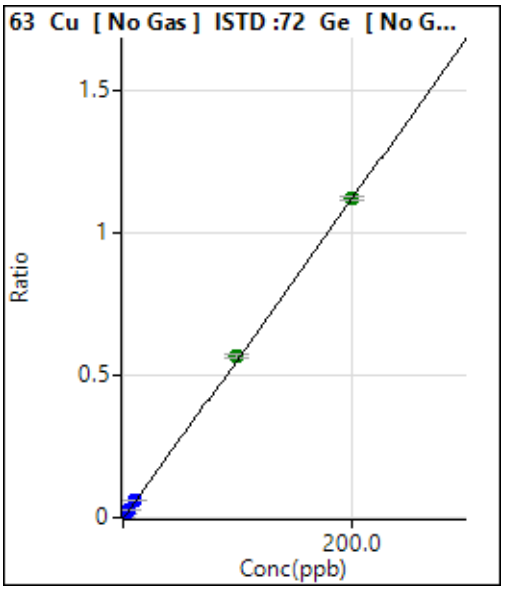


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	326.68	0.0003	P	21.5	
2	☐	2.000	1.940	7388.77	0.0072	P	3.1	-3.0
3	☐	5.000	4.780	17651.59	0.0174	P	6.0	-4.4
4	☐	10.000	10.132	36963.30	0.0365	P	5.2	1.3
5	☐	100.000	101.993	359924.07	0.3642	P	1.1	2.0
6	☐	200.000	199.003	691304.39	0.7103	P	2.6	-0.5

y = 0.0036 * x + 3.1933E-004
R = 0.9999
DL = 0.05785 ppb
BEC = 0.0895 ppb

Weight: <None>
Min Conc: <None>

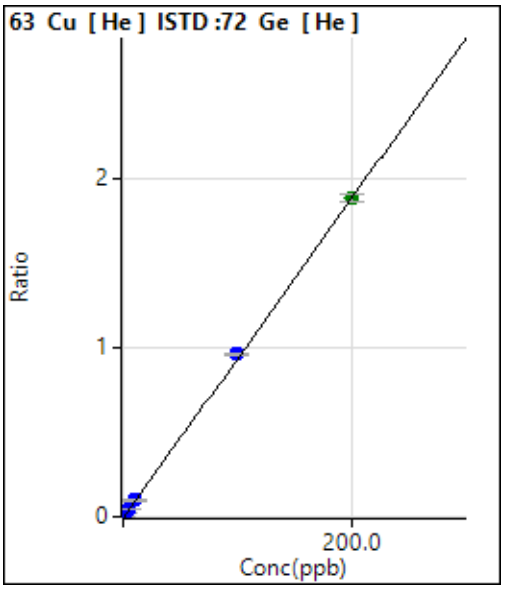
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2580.29	0.0007	P	7.0	
2	☐	2.000	2.079	44542.26	0.0124	P	4.3	3.9
3	☐	5.000	5.127	105069.14	0.0295	P	3.1	2.5
4	☐	10.000	10.392	208124.53	0.0591	P	1.4	3.9
5	☐	100.000	100.871	1959324.09	0.5670	A	1.9	0.9
6	☐	200.000	199.541	3754985.15	1.1210	A	1.6	-0.2

y = 0.0056 * x + 7.1180E-004
R = 1.0000
DL = 0.02647 ppb
BEC = 0.1268 ppb

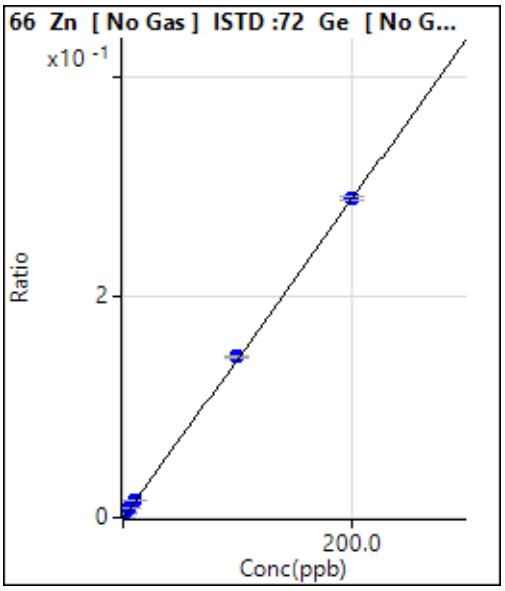
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	633.36	0.0006	P	11.1	
2	☐	2.000	2.075	20655.78	0.0202	P	1.1	3.8
3	☐	5.000	4.764	46384.96	0.0457	P	3.5	-4.7
4	☐	10.000	10.175	98121.35	0.0968	P	1.4	1.8
5	☐	100.000	101.490	948807.85	0.9601	P	1.9	1.5
6	☐	200.000	199.252	1833855.39	1.8844	A	2.4	-0.4

y = 0.0095 * x + 6.1822E-004
R = 1.0000
DL = 0.02173 ppb
BEC = 0.06539 ppb

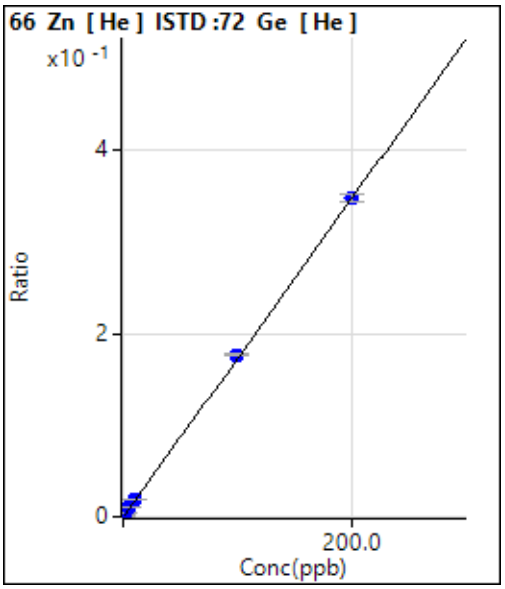
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2643.64	0.0007	P	3.0	
2	☐	2.000	2.593	16123.09	0.0045	P	7.0	29.7
3	☐	5.000	5.195	29385.03	0.0082	P	1.9	3.9
4	☐	10.000	10.221	54709.16	0.0155	P	2.4	2.2
5	☐	100.000	100.589	505658.04	0.1463	P	1.6	0.6
6	☐	200.000	199.684	970670.46	0.2898	P	1.7	-0.2

y = 0.0014 * x + 7.2926E-004
R = 1.0000
DL = 0.04504 ppb
BEC = 0.5038 ppb

Weight: <None>
Min Conc: <None>

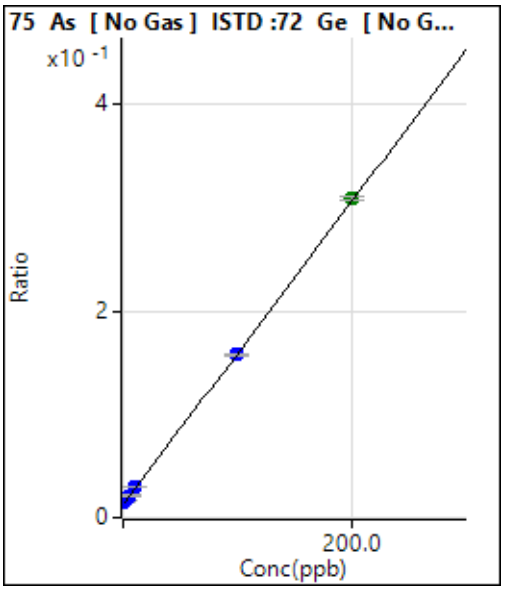


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1080.06	0.0011	P	12.7	
2	☐	2.000	2.324	5207.73	0.0051	P	4.5	16.2
3	☐	5.000	5.027	9963.76	0.0098	P	2.6	0.5
4	☐	10.000	9.938	18599.57	0.0184	P	1.3	-0.6
5	☐	100.000	101.169	175068.72	0.1772	P	1.0	1.2
6	☐	200.000	199.415	338842.07	0.3482	P	2.1	-0.3

y = 0.0017 * x + 0.0011
R = 1.0000
DL = 0.2308 ppb
BEC = 0.6061 ppb

Weight: <None>
Min Conc: <None>

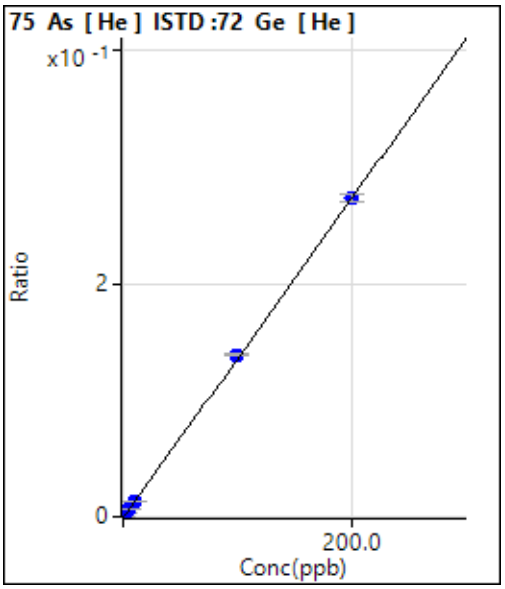
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	51447.16	0.0142	P	0.6	
2	☐	2.000	2.131	62315.82	0.0173	P	1.5	6.5
3	☐	5.000	4.885	76095.41	0.0214	P	3.2	-2.3
4	☐	10.000	10.130	102418.59	0.0291	P	1.2	1.3
5	☐	100.000	97.748	544819.98	0.1577	P	2.0	-2.3
6	☐	200.000	201.121	1036374.02	0.3094	A	1.2	0.6

y = 0.0015 * x + 0.0142
R = 0.9999
DL = 0.1756 ppb
BEC = 9.669 ppb

Weight: <None>
Min Conc: <None>

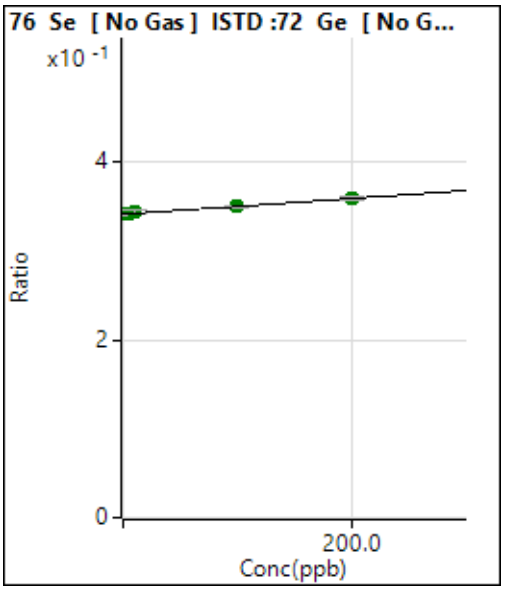


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	275.56	0.0003	P	9.7	
2	☐	2.000	1.951	3008.13	0.0029	P	1.0	-2.4
3	☐	5.000	4.533	6592.74	0.0065	P	2.9	-9.3
4	☐	10.000	9.887	14022.77	0.0138	P	1.3	-1.1
5	☐	100.000	101.339	137682.54	0.1393	P	1.5	1.3
6	☐	200.000	199.349	266474.03	0.2738	P	2.3	-0.3

y = 0.0014 * x + 2.6901E-004
R = 1.0000
DL = 0.0568 ppb
BEC = 0.196 ppb

Weight: <None>
Min Conc: <None>

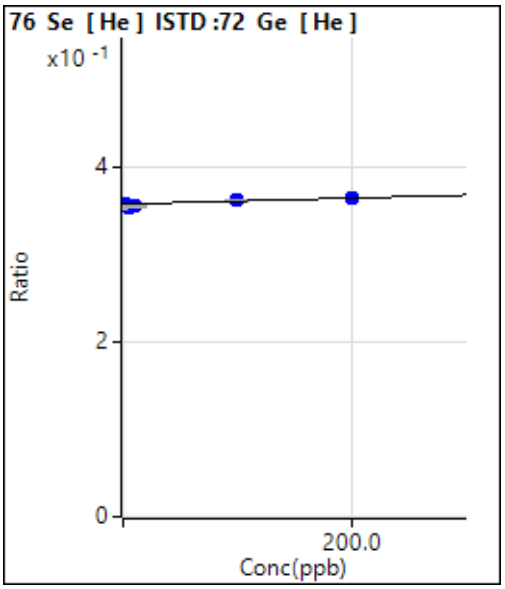
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1237660.55	0.3414	A	0.5	
2	☐	2.000	-1.887	1227906.99	0.3412	A	0.9	-194.3
3	☐	5.000	-1.017	1215855.47	0.3413	A	0.9	-120.3
4	☐	10.000	35.309	1214376.88	0.3446	A	0.9	253.1
5	☐	100.000	96.003	1209468.21	0.3500	A	0.3	-4.0
6	☐	200.000	200.922	1203818.55	0.3594	A	0.7	0.5

y = 8.9525E-005 * x + 0.3414
R = 0.9897
DL = 55.62 ppb
BEC = 3814 ppb

Weight: <None>
Min Conc: <None>

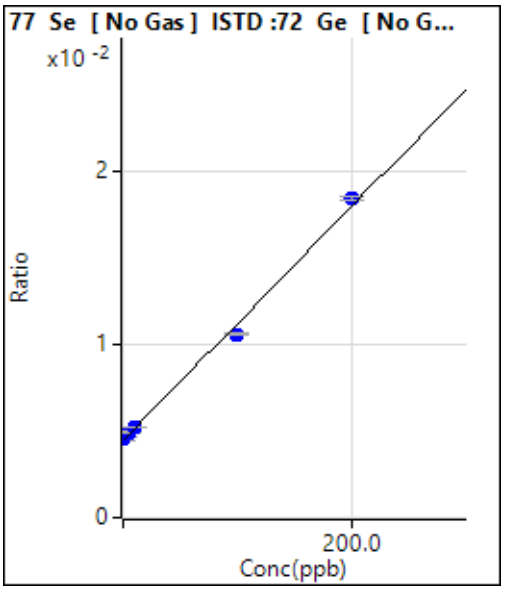


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	366192.12	0.3575	P	1.4	
2	☐	2.000	3.643	365071.79	0.3576	P	0.5	82.2
3	☐	5.000	-134.215	358527.12	0.3529	P	0.9	-2784.3
4	☐	10.000	-74.147	359722.92	0.3549	P	0.4	-841.5
5	☐	100.000	112.851	357152.25	0.3614	P	0.7	12.9
6	☐	200.000	201.246	354728.94	0.3645	P	0.2	0.6

y = 3.4707E-005 * x + 0.3575
R = 0.8878
DL = 421.7 ppb
BEC = 1.03E+04 ppb

Weight: <None>
Min Conc: <None>

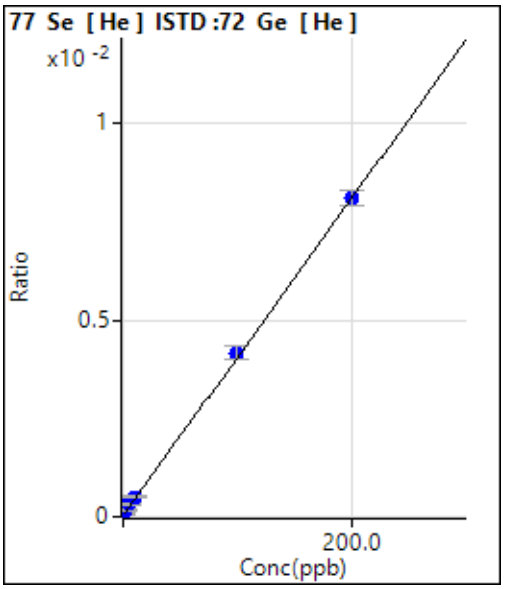
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16567.02	0.0046	P	3.3	
2	☐	2.000	3.590	17307.97	0.0048	P	5.7	79.5
3	☐	5.000	5.083	17498.25	0.0049	P	2.2	1.7
4	☐	10.000	9.865	18449.49	0.0052	P	1.1	-1.4
5	☐	100.000	88.905	36515.87	0.0106	P	1.3	-11.1
6	☐	200.000	205.536	61753.39	0.0184	P	1.6	2.8

y = 6.7460E-005 * x + 0.0046
R = 0.9978
DL = 6.633 ppb
BEC = 67.74 ppb

Weight: <None>
Min Conc: <None>

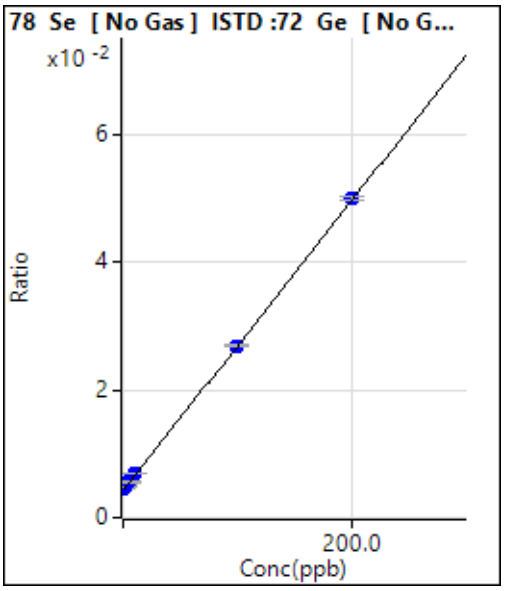


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	76.67	0.0001	P	40.3	
2	☐	2.000	1.955	156.67	0.0002	P	32.3	-2.2
3	☐	5.000	6.357	336.68	0.0003	P	11.5	27.1
4	☐	10.000	10.697	513.35	0.0005	P	7.0	7.0
5	☐	100.000	101.492	4120.70	0.0042	P	7.8	1.5
6	☐	200.000	199.186	7892.41	0.0081	P	4.7	-0.4

y = 4.0337E-005 * x + 7.4969E-005
R = 0.9999
DL = 2.248 ppb
BEC = 1.859 ppb

Weight: <None>
Min Conc: <None>

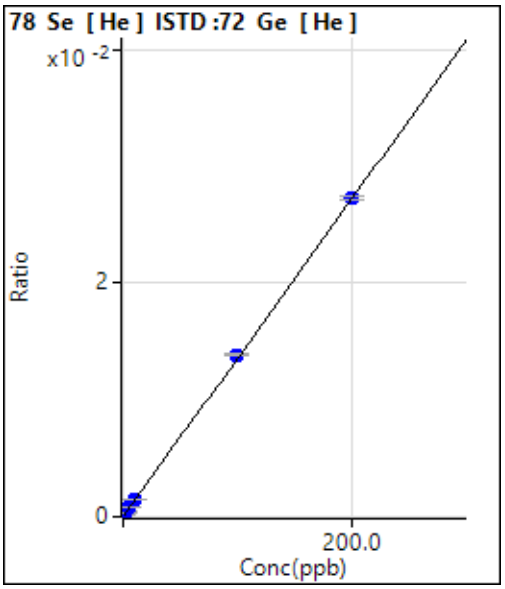
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16319.97	0.0045	P	3.2	
2	☐	2.000	1.964	17805.22	0.0049	P	2.2	-1.8
3	☐	5.000	4.774	19898.11	0.0056	P	2.7	-4.5
4	☐	10.000	10.228	24051.54	0.0068	P	1.1	2.3
5	☐	100.000	98.925	93174.56	0.0270	P	2.1	-1.1
6	☐	200.000	200.532	167600.48	0.0500	P	1.4	0.3

y = 2.2705E-004 * x + 0.0045
R = 1.0000
DL = 1.893 ppb
BEC = 19.83 ppb

Weight: <None>
Min Conc: <None>

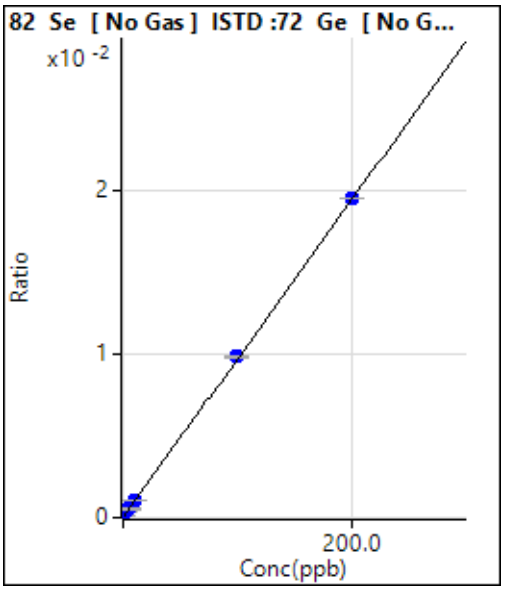


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	153.33	0.0001	P	9.6	
2	☐	2.000	1.909	418.01	0.0004	P	5.2	-4.5
3	☐	5.000	4.559	782.02	0.0008	P	5.3	-8.8
4	☐	10.000	9.724	1492.09	0.0015	P	2.1	-2.8
5	☐	100.000	100.609	13671.52	0.0138	P	1.3	0.6
6	☐	200.000	199.721	26583.17	0.0273	P	1.7	-0.1

y = 1.3602E-004 * x + 1.4967E-004
R = 1.0000
DL = 0.3154 ppb
BEC = 1.1 ppb

Weight: <None>
Min Conc: <None>

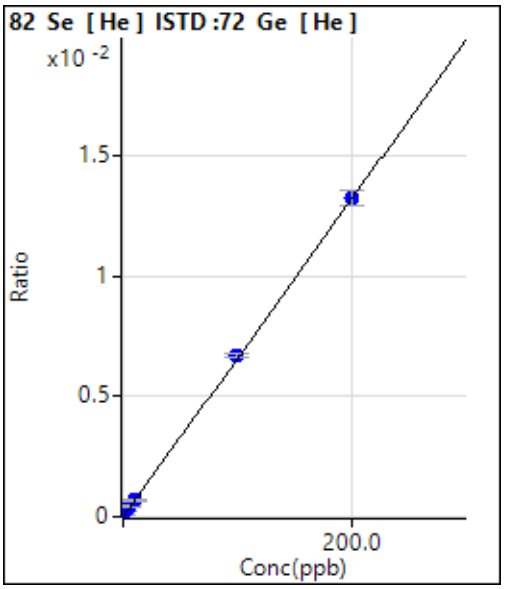
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	456.68	0.0001	P	5.8	
2	☐	2.000	1.884	1110.07	0.0003	P	8.5	-5.8
3	☐	5.000	4.376	1956.84	0.0005	P	16.8	-12.5
4	☐	10.000	9.841	3800.62	0.0011	P	3.4	-1.6
5	☐	100.000	100.091	33909.42	0.0098	P	1.1	0.1
6	☐	200.000	199.979	65250.04	0.0195	P	0.5	0.0

y = 9.6778E-005 * x + 1.2599E-004
R = 1.0000
DL = 0.228 ppb
BEC = 1.302 ppb

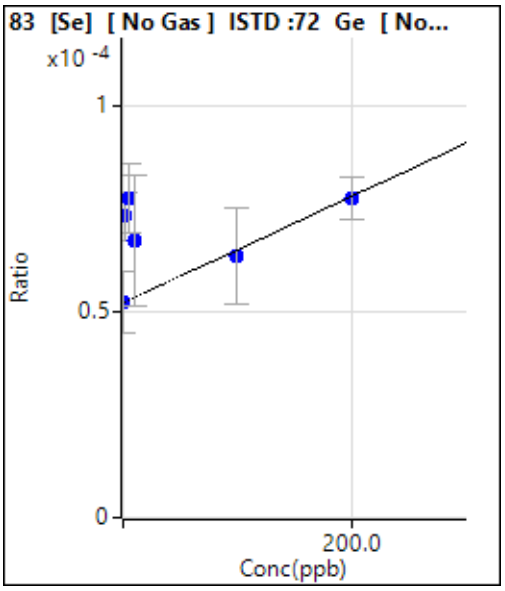
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	63.33	0.0001	P	48.3	
2	☐	2.000	2.876	256.67	0.0003	P	20.3	43.8
3	☐	5.000	5.325	420.01	0.0004	P	14.6	6.5
4	☐	10.000	9.478	696.70	0.0007	P	6.5	-5.2
5	☐	100.000	100.664	6628.38	0.0067	P	2.2	0.7
6	☐	200.000	199.677	12889.65	0.0132	P	4.7	-0.2

y = 6.6026E-005 * x + 6.1791E-005
R = 1.0000
DL = 1.355 ppb
BEC = 0.9359 ppb

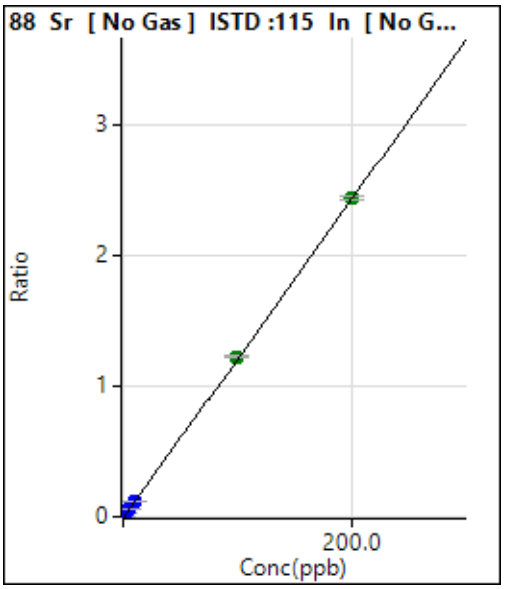
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	190.00	0.0001	P	29.2	
2	☐	2.000	160.998	263.34	0.0001	P	15.7	7949.9
3	☐	5.000	195.136	276.67	0.0001	P	21.8	3802.7
4	☐	10.000	113.850	236.67	0.0001	P	47.4	1038.5
5	☐	100.000	87.172	220.01	0.0001	P	36.3	-12.8
6	☐	200.000	194.878	260.01	0.0001	P	13.6	-2.6

y = 1.2939E-007 * x + 5.2389E-005
R = 0.3384
DL = 354.2 ppb
BEC = 404.9 ppb

Weight: <None>
Min Conc: <None>

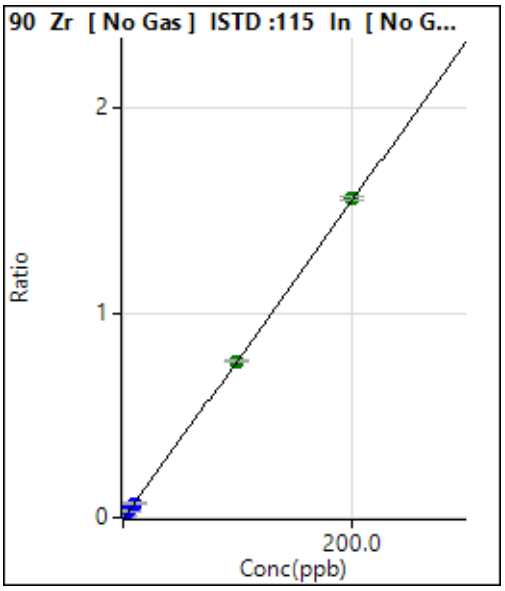


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2720.33	0.0006	P	1.3	
2	☐	2.000	1.918	115680.83	0.0240	P	3.6	-4.1
3	☐	5.000	4.674	274822.35	0.0577	P	2.7	-6.5
4	☐	10.000	9.606	558292.01	0.1179	P	1.2	-3.9
5	☐	100.000	100.334	5622582.41	1.2266	A	1.6	0.3
6	☐	200.000	199.862	10854979.42	2.4427	A	1.6	-0.1

y = 0.0122 * x + 5.6362E-004
R = 1.0000
DL = 0.001788 ppb
BEC = 0.04613 ppb

Weight: <None>
Min Conc: <None>

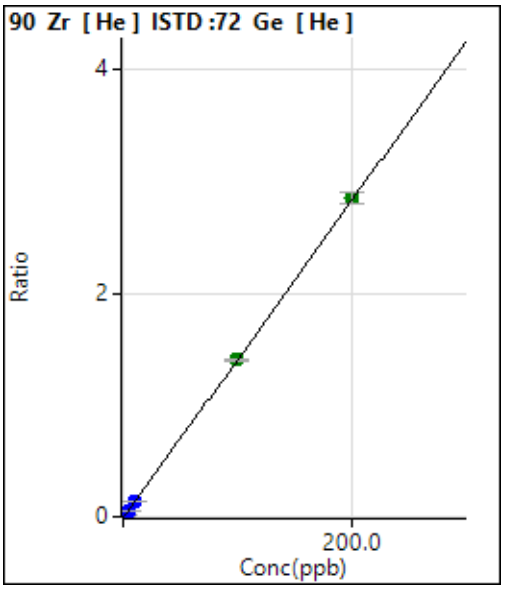
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1500.12	0.0003	P	4.5	
2	☐	2.000	1.579	60605.85	0.0126	P	3.5	-21.1
3	☐	5.000	4.224	157845.84	0.0331	P	1.6	-15.5
4	☐	10.000	9.031	333555.66	0.0705	P	1.3	-9.7
5	☐	100.000	98.493	3508521.30	0.7654	A	1.6	-1.5
6	☐	200.000	200.825	6933572.40	1.5603	A	1.7	0.4

y = 0.0078 * x + 3.1077E-004
R = 1.0000
DL = 0.005422 ppb
BEC = 0.04001 ppb

Weight: <None>
Min Conc: <None>

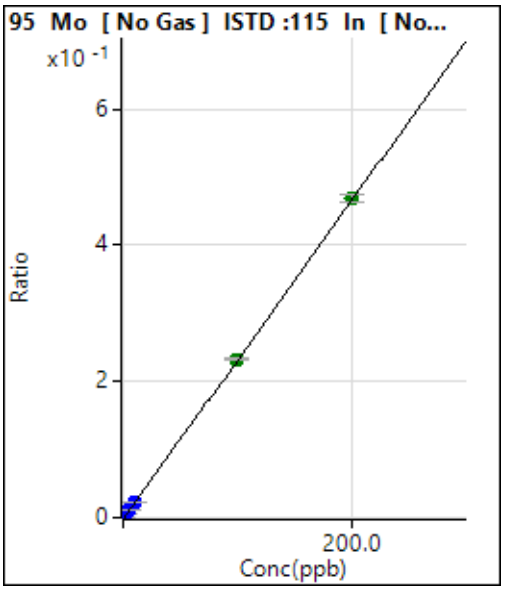


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1653.47	0.0016	P	2.9	
2	☐	2.000	1.616	25073.49	0.0246	P	0.4	-19.2
3	☐	5.000	4.022	59668.60	0.0587	P	3.2	-19.6
4	☐	10.000	9.094	132514.31	0.1308	P	0.9	-9.1
5	☐	100.000	98.692	1386536.54	1.4031	A	1.6	-1.3
6	☐	200.000	200.727	2775580.06	2.8520	A	3.3	0.4

y = 0.0142 * x + 0.0016
R = 1.0000
DL = 0.00979 ppb
BEC = 0.1137 ppb

Weight: <None>
Min Conc: <None>

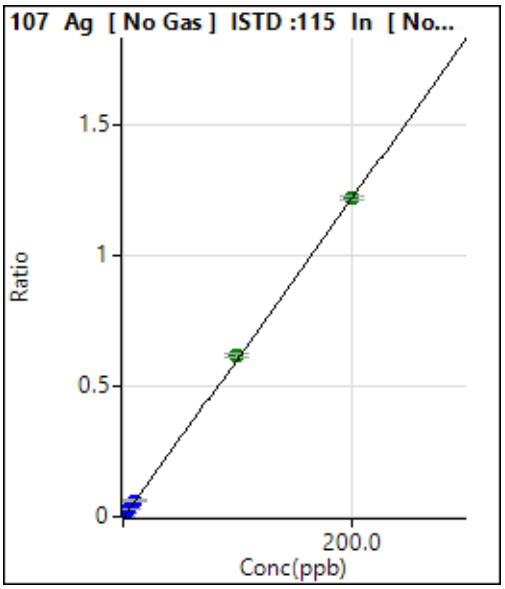
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	180.00	0.0000	P	14.4	
2	☐	2.000	1.883	21400.67	0.0044	P	5.6	-5.8
3	☐	5.000	4.740	52997.70	0.0111	P	3.2	-5.2
4	☐	10.000	9.766	108289.74	0.0229	P	2.2	-2.3
5	☐	100.000	99.145	1063037.25	0.2319	A	1.5	-0.9
6	☐	200.000	200.447	2083280.91	0.4688	A	2.0	0.2

y = 0.0023 * x + 3.7283E-005
R = 1.0000
DL = 0.006897 ppb
BEC = 0.01594 ppb

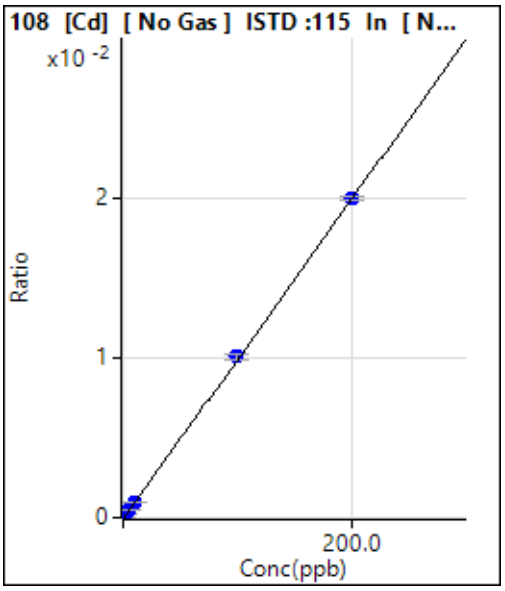
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	563.36	0.0001	P	19.7	
2	☐	2.000	1.982	59110.94	0.0123	P	5.8	-0.9
3	☐	5.000	4.989	146313.89	0.0307	P	2.5	-0.2
4	☐	10.000	10.156	295294.82	0.0624	P	2.2	1.6
5	☐	100.000	100.952	2837639.54	0.6190	A	2.0	1.0
6	☐	200.000	199.517	5436208.46	1.2233	A	1.6	-0.2

y = 0.0061 * x + 1.1667E-004
R = 1.0000
DL = 0.01124 ppb
BEC = 0.01903 ppb

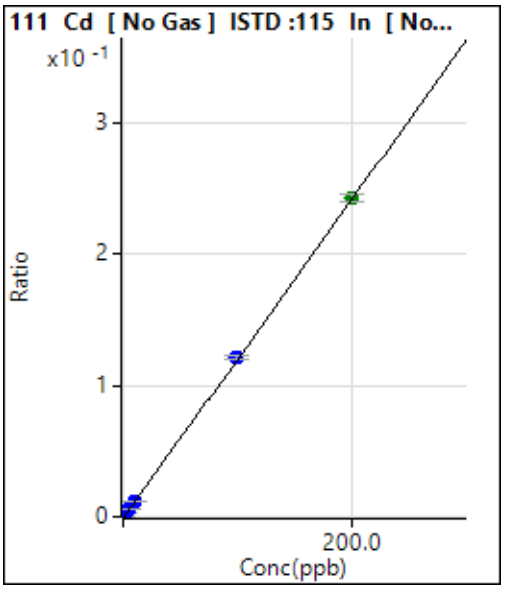
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16.67	0.0000	P	91.8	
2	☐	2.000	1.973	966.72	0.0002	P	10.2	-1.4
3	☐	5.000	4.587	2200.23	0.0005	P	7.8	-8.3
4	☐	10.000	9.878	4687.55	0.0010	P	4.8	-1.2
5	☐	100.000	100.823	46183.27	0.0101	P	3.3	0.8
6	☐	200.000	199.605	88623.15	0.0199	P	1.7	-0.2

y = 9.9895E-005 * x + 3.4585E-006
R = 1.0000
DL = 0.09532 ppb
BEC = 0.03462 ppb

Weight: <None>
Min Conc: <None>

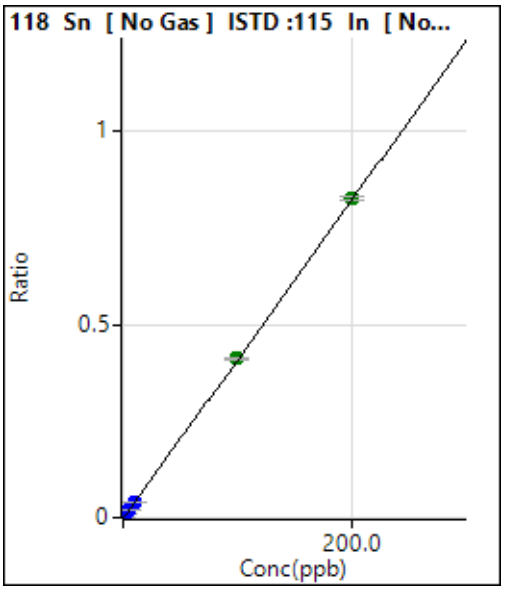


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2.12	0.0000	P	1767.2	
2	☐	2.000	1.989	11652.29	0.0024	P	7.3	-0.5
3	☐	5.000	4.895	28351.58	0.0059	P	3.0	-2.1
4	☐	10.000	9.976	57393.26	0.0121	P	1.1	-0.2
5	☐	100.000	99.788	555905.83	0.1213	P	1.9	-0.2
6	☐	200.000	200.110	1080698.31	0.2432	A	2.2	0.1

y = 0.0012 * x + 4.2489E-007
R = 1.0000
DL = 0.01854 ppb
BEC = 0.0003496 ppb

Weight: <None>
Min Conc: <None>

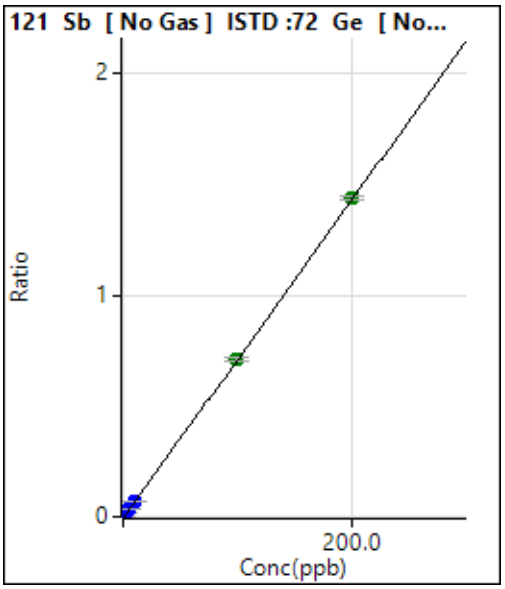
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5994.83	0.0012	P	4.0	
2	☐	2.000	1.988	45454.68	0.0094	P	2.0	-0.6
3	☐	5.000	4.816	100455.34	0.0211	P	3.8	-3.7
4	☐	10.000	9.731	195611.74	0.0413	P	2.3	-2.7
5	☐	100.000	99.480	1883908.35	0.4110	A	1.7	-0.5
6	☐	200.000	200.278	3671235.88	0.8261	A	1.5	0.1

y = 0.0041 * x + 0.0012
R = 1.0000
DL = 0.03613 ppb
BEC = 0.3015 ppb

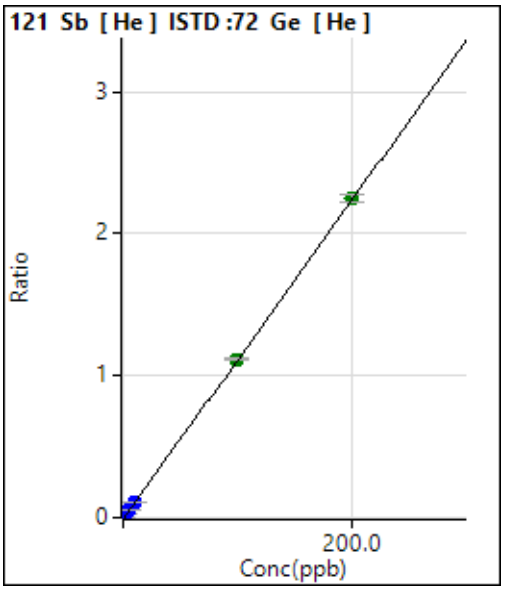
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	630.03	0.0002	P	21.1	
2	☐	2.000	1.992	52115.90	0.0145	P	3.5	-0.4
3	☐	5.000	4.865	125139.38	0.0351	P	2.2	-2.7
4	☐	10.000	9.981	253345.43	0.0719	P	2.1	-0.2
5	☐	100.000	99.149	2462252.41	0.7125	A	1.9	-0.9
6	☐	200.000	200.430	4824383.26	1.4402	A	1.0	0.2

y = 0.0072 * x + 1.7372E-004
R = 1.0000
DL = 0.01532 ppb
BEC = 0.02418 ppb

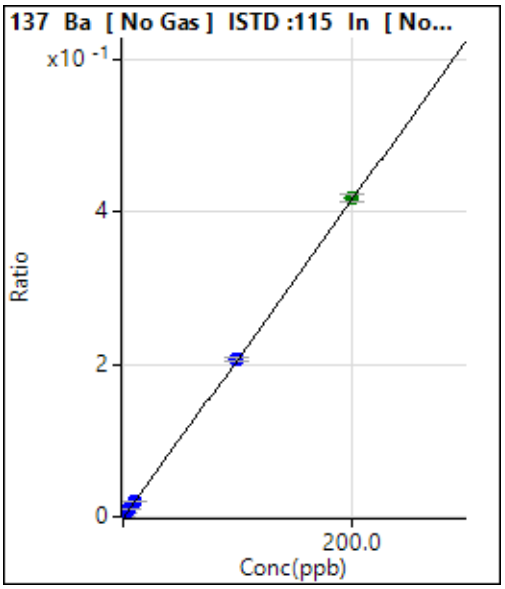
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	333.34	0.0003	P	5.2	
2	☐	2.000	1.890	22001.94	0.0216	P	2.1	-5.5
3	☐	5.000	4.610	52915.74	0.0521	P	5.0	-7.8
4	☐	10.000	9.876	112712.84	0.1112	P	1.2	-1.2
5	☐	100.000	99.363	1102755.27	1.1159	A	1.4	-0.6
6	☐	200.000	200.336	2189283.67	2.2496	A	2.8	0.2

y = 0.0112 * x + 3.2553E-004
R = 1.0000
DL = 0.004501 ppb
BEC = 0.02899 ppb

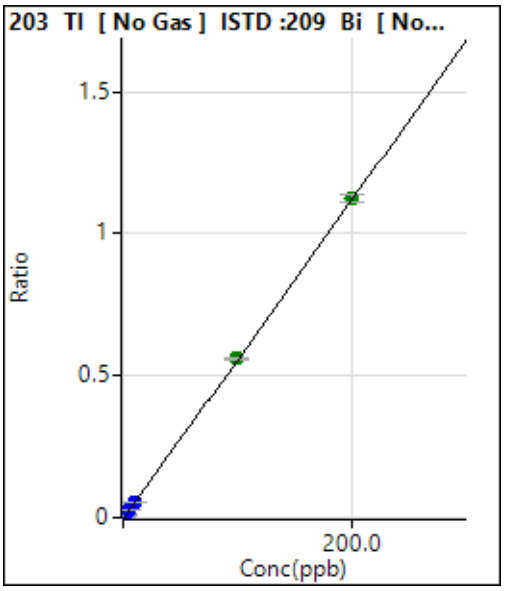
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	750.04	0.0002	P	8.0	
2	☐	2.000	2.225	23080.65	0.0048	P	3.5	11.3
3	☐	5.000	4.883	49202.37	0.0103	P	1.8	-2.3
4	☐	10.000	9.822	97567.53	0.0206	P	2.7	-1.8
5	☐	100.000	99.103	946776.08	0.2065	P	2.4	-0.9
6	☐	200.000	200.458	1855807.79	0.4176	A	2.3	0.2

y = 0.0021 * x + 1.5540E-004
R = 1.0000
DL = 0.01794 ppb
BEC = 0.07462 ppb

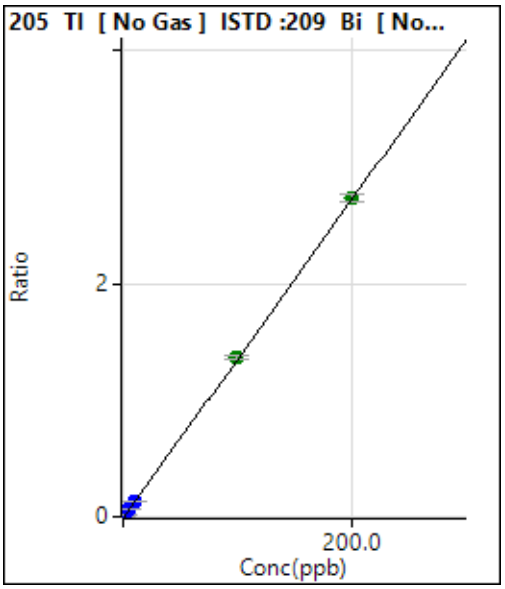
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	966.73	0.0002	P	15.3	
2	☐	2.000	1.759	50916.07	0.0101	P	2.4	-12.0
3	☐	5.000	4.852	137122.61	0.0275	P	0.8	-3.0
4	☐	10.000	9.607	270114.98	0.0542	P	1.3	-3.9
5	☐	100.000	99.642	2698179.02	0.5600	A	2.0	-0.4
6	☐	200.000	200.205	5248397.11	1.1250	A	2.0	0.1

y = 0.0056 * x + 1.9170E-004
R = 1.0000
DL = 0.01567 ppb
BEC = 0.03412 ppb

Weight: <None>
Min Conc: <None>

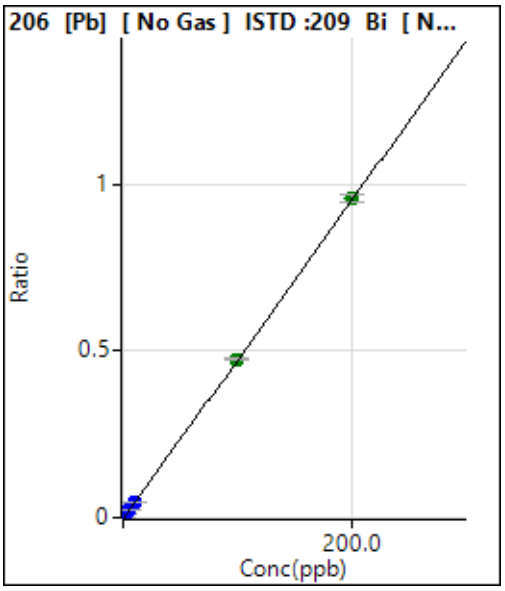


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2420.28	0.0005	P	10.6	
2	☐	2.000	1.718	121094.16	0.0240	P	2.2	-14.1
3	☐	5.000	4.694	322862.55	0.0646	P	2.3	-6.1
4	☐	10.000	9.378	641550.62	0.1287	P	1.4	-6.2
5	☐	100.000	99.843	6577152.19	1.3651	A	1.9	-0.2
6	☐	200.000	200.120	12762014.39	2.7357	A	2.3	0.1

y = 0.0137 * x + 4.8003E-004
R = 1.0000
DL = 0.01114 ppb
BEC = 0.03512 ppb

Weight: <None>
Min Conc: <None>

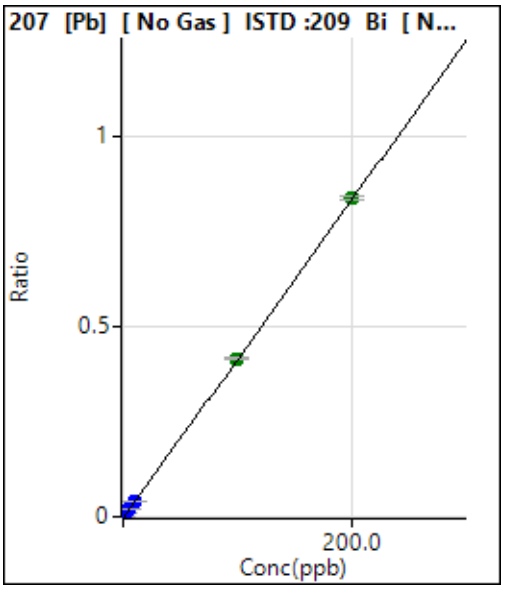
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1310.10	0.0003	P	12.9	
2	☐	2.000	1.931	48008.39	0.0095	P	2.5	-3.4
3	☐	5.000	4.813	116313.41	0.0233	P	2.4	-3.7
4	☐	10.000	9.862	236588.30	0.0474	P	1.1	-1.4
5	☐	100.000	99.202	2287999.70	0.4749	A	1.1	-0.8
6	☐	200.000	200.411	4474287.64	0.9591	A	2.4	0.2

y = 0.0048 * x + 2.5998E-004
R = 1.0000
DL = 0.02109 ppb
BEC = 0.05434 ppb

Weight: <None>
Min Conc: <None>

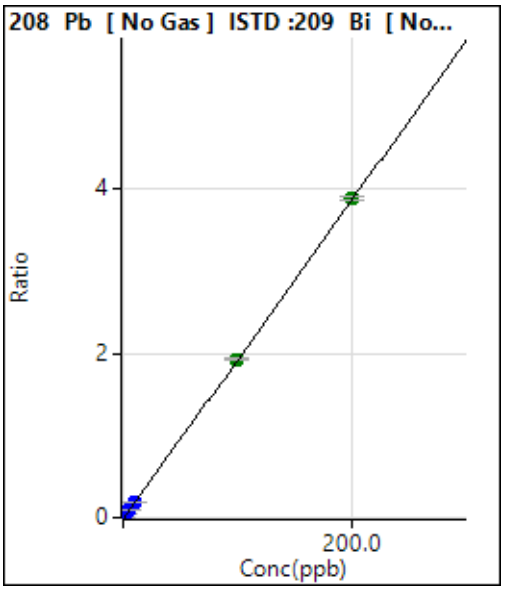


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1053.40	0.0002	P	18.4	
2	☐	2.000	1.990	43057.33	0.0085	P	3.7	-0.5
3	☐	5.000	4.830	101819.59	0.0204	P	2.3	-3.4
4	☐	10.000	9.895	207160.69	0.0415	P	0.8	-1.1
5	☐	100.000	99.405	2001749.35	0.4155	A	1.1	-0.6
6	☐	200.000	200.307	3904667.86	0.8370	A	1.4	0.2

y = 0.0042 * x + 2.0889E-004
R = 1.0000
DL = 0.02763 ppb
BEC = 0.05 ppb

Weight: <None>
Min Conc: <None>

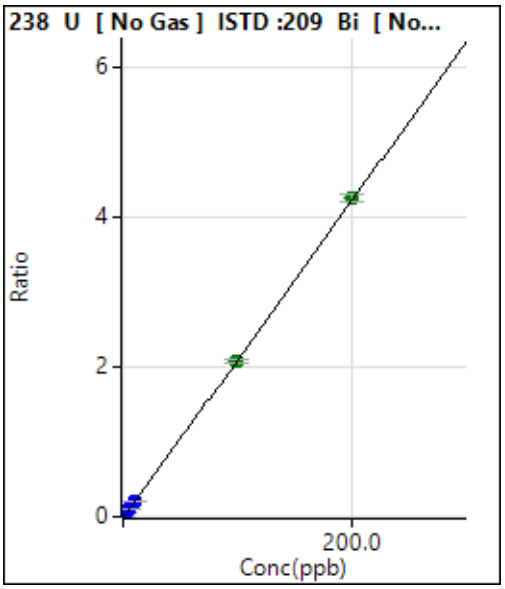
Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4887.13	0.0010	P	5.0	
2	☐	2.000	1.935	194683.53	0.0385	P	2.2	-3.2
3	☐	5.000	4.764	466644.01	0.0934	P	2.5	-4.7
4	☐	10.000	9.801	953267.28	0.1912	P	1.1	-2.0
5	☐	100.000	99.403	9298822.52	1.9300	A	1.5	-0.6
6	☐	200.000	200.315	18139288.68	3.8883	A	1.8	0.2

y = 0.0194 * x + 9.6954E-004
R = 1.0000
DL = 0.007453 ppb
BEC = 0.04996 ppb

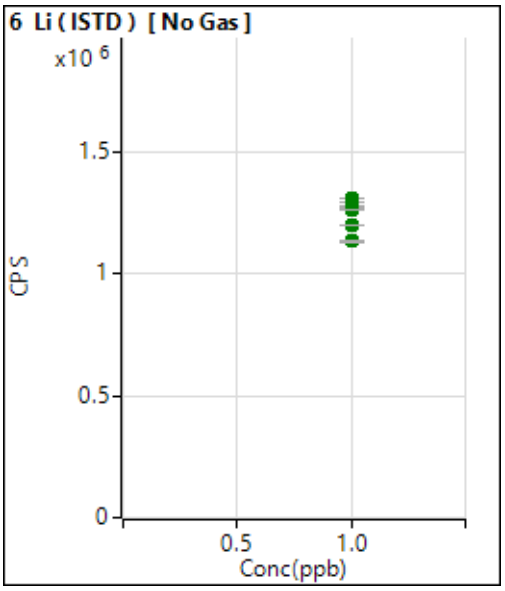
Weight: <None>
Min Conc: <None>



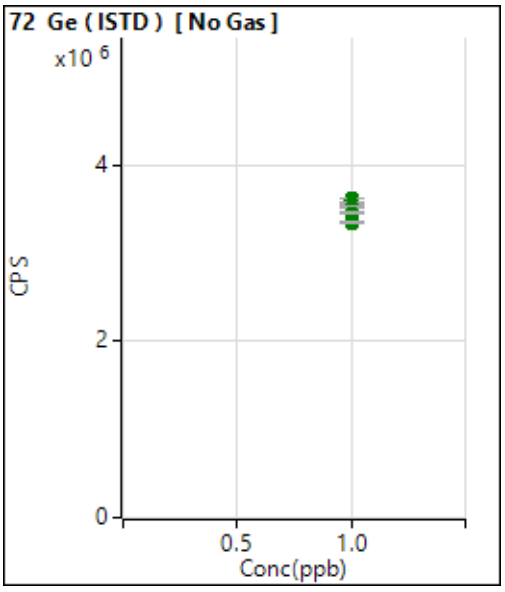
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3043.77	0.0006	P	2.2	
2	☐	2.000	1.849	201086.55	0.0398	P	2.5	-7.6
3	☐	5.000	4.635	493778.96	0.0989	P	1.9	-7.3
4	☐	10.000	9.453	1002347.72	0.2010	P	2.1	-5.5
5	☐	100.000	98.280	10041080.06	2.0841	A	1.9	-1.7
6	☐	200.000	200.898	19870878.87	4.2595	A	2.0	0.4

y = 0.0212 * x + 6.0384E-004
R = 1.0000
DL = 0.001907 ppb
BEC = 0.02848 ppb

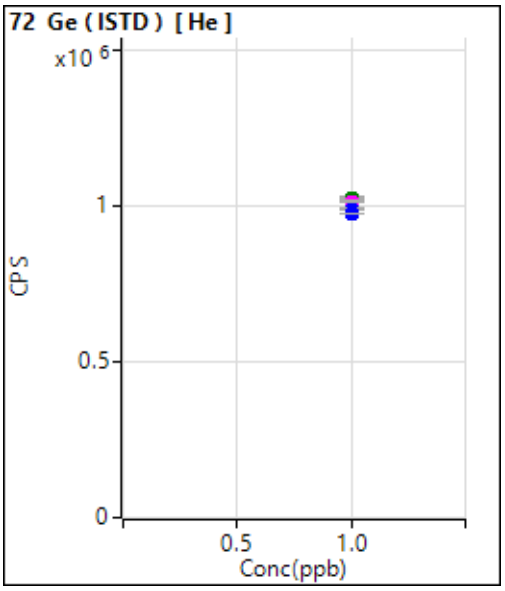
Weight: <None>
Min Conc: <None>



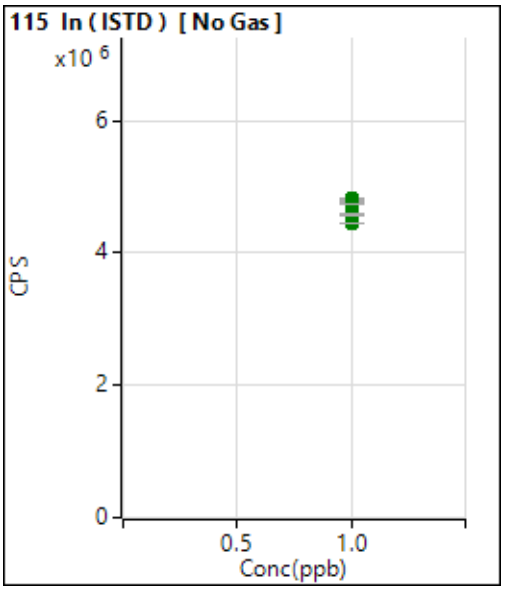
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1311505.51		A	0.4	
2	☐	1.000		1296398.91		A	0.1	
3	☐	1.000		1278167.75		A	0.4	
4	☐	1.000		1261653.96		A	0.2	
5	☐	1.000		1199454.34		A	0.2	
6	☐	1.000		1134408.06		A	0.7	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		3625271.30		A	0.6	
2	☐	1.000		3598500.99		A	1.0	
3	☐	1.000		3562325.88		A	0.5	
4	☐	1.000		3524402.97		A	0.3	
5	☐	1.000		3455665.26		A	0.5	
6	☐	1.000		3349657.03		A	0.5	

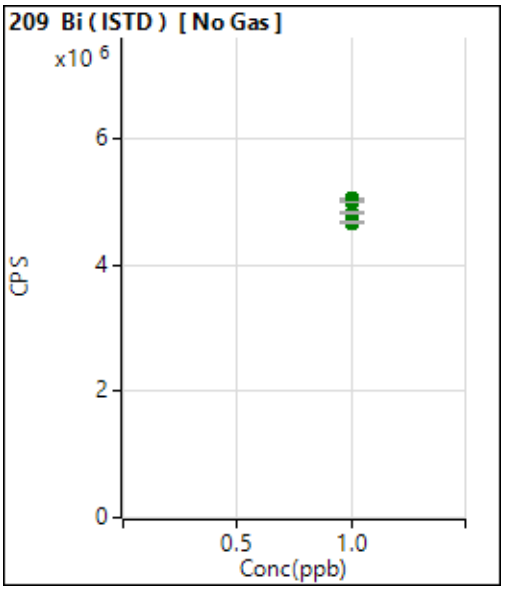


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1024230.63		A	0.8	
2	☐	1.000		1020789.39		M	1.2	
3	☐	1.000		1016078.66		A	0.7	
4	☐	1.000		1013447.93		M	0.6	
5	☐	1.000		988164.15		P	0.5	
6	☐	1.000		973176.52		P	0.2	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4826623.82		A	0.3	
2	☐	1.000		4819854.81		A	0.6	
3	☐	1.000		4765231.99		A	0.2	
4	☐	1.000		4733707.72		A	0.3	
5	☐	1.000		4584168.55		A	0.3	
6	☐	1.000		4443870.86		A	0.1	

Calibration for 021_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		5040995.86		A	0.4	
2	☐	1.000		5052988.15		A	0.5	
3	☐	1.000		4994818.26		A	0.3	
4	☐	1.000		4986532.84		A	0.2	
5	☐	1.000		4817898.16		A	0.5	
6	☐	1.000		4665364.62		A	0.7	

Sample Report

Sample Table

Sample Name	LLICV2
Data File Name	023LCV2.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq Date Time	2024-06-26T11:19:59-05:00
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	2.058	2.058	3.26	107386	0.00	2	
Be	9	1	No Gas	2.069	2.069	4.75	9528	0.02	2	
V	51	2	He	1.886	1.886	2.91	21277	0.01	2	
Cr	52	2	He	2.168	2.168	1.89	27758	0.01	2	
Fe	56	2	He	219.280	219.280	3.01	1936430	0.01	200	
Se	78	2	He	2.080	2.080	2.81	433	0.48	2	
As	75	2	He	2.130	2.130	1.69	3197	0.07	2	
Ca	44	2	He	233.630	233.630	3.86	13277	1.76	200	
Na	23	2	He	290.982	290.982	2.07	485048	0.06	200	NewName Main CR1 Failed
Mg	24	2	He	222.535	222.535	1.46	186421	0.12	200	
K	39	2	He	210.372	210.372	3.79	308290	0.07	200	
Mn	55	2	He	2.208	2.208	2.05	16510	0.01	2	
Co	59	2	He	2.165	2.165	2.53	30648	0.01	2	
Ni	60	2	He	2.300	2.300	0.84	8539	0.03	2	
Cu	63	2	He	2.318	2.318	2.30	22569	0.01	2	
Zn	66	2	He	2.552	2.552	3.62	5508	0.05	2	
Al	27	2	He	4.397	4.397	8.43	3847	0.11	2	NewName Main CR1 Failed
B	11	1	No Gas	11.993	11.993	1.49	48012	0.02	10	
Al	27	1	No Gas	3.973	3.973	7.84	140242	0.00	2	NewName Main CR1 Failed
Si	28	1	No Gas	11.041	11.041	6.42	512457	0.00	10	
Ag	107	1	No Gas	2.120	2.120	3.75	61957	0.00	2	
Cd	111	1	No Gas	2.080	2.080	2.20	11945	0.02	2	
Sr	88	1	No Gas	2.276	2.276	2.00	134066	0.00	2	
Mo	95	1	No Gas	2.056	2.056	1.04	22903	0.01	2	
Sn	118	1	No Gas	2.160	2.160	3.63	47920	0.00	2	
Sb	121	1	No Gas	2.139	2.139	1.53	54552	0.00	2	
Ba	137	1	No Gas	2.393	2.393	2.79	24279	0.01	2	
Tl	205	1	No Gas	1.842	1.842	0.93	127557	0.00	2	
Tl	203	1	No Gas	1.915	1.915	2.20	54454	0.00	2	
Pb	208	1	No Gas	2.078	2.078	1.94	205375	0.00	2	
U	238	1	No Gas	1.966	1.966	2.01	210215	0.00	2	
Ca	43	2	He	266.477	266.477	18.95	873	30.51	200	NewName Main CR1 Failed
Sb	121	2	He	2.164	2.164	3.98	24663	0.01	2	
Ti	47	2	He	2.147	2.147	6.18	663	0.32	200	
Cu	63	1	No Gas	2.237	2.237	3.28	46586	0.00	2	
Se	82	1	No Gas	2.358	2.358	8.92	1243	0.19	2	
Zr	90	1	No Gas	1.793	1.793	3.66	67274	0.00	2	
Zr	90	2	He	1.900	1.900	2.82	28644	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	1239564	0.51	1311506	94.51	70	120	
Ge	72	2	He	1001743	0.68	1024231	97.80	70	120	
Ge	72	1	No Gas	3510359	0.90	3625271	96.83	70	120	
In	115	1	No Gas	4725931	0.74	4826624	97.91	70	120	
Bi	209	1	No Gas	4972731	0.53	5040996	98.65	70	120	

Sample Report

Sample Table

Sample Name	LLICV5
Data File Name	024LCV5.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq Date Time	2024-06-26T11:22:23-05:00
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	4.964	4.964	2.27	159916	0.00	5	
Be	9	1	No Gas	5.026	5.026	3.85	22855	0.02	5	
V	51	2	He	4.977	4.977	1.38	46220	0.01	5	
Cr	52	2	He	5.226	5.226	3.11	55639	0.01	5	
Fe	56	2	He	521.772	521.772	2.10	4629401	0.01	500	
Se	78	2	He	4.774	4.774	9.29	808	0.59	5	
As	75	2	He	5.154	5.154	3.32	7422	0.07	5	
Ca	44	2	He	519.756	519.756	1.64	28770	1.81	500	
Na	23	2	He	574.257	574.257	1.75	874163	0.07	500	
Mg	24	2	He	527.396	527.396	1.51	444332	0.12	500	
K	39	2	He	509.147	509.147	1.18	618180	0.08	500	
Mn	55	2	He	5.335	5.335	2.23	39156	0.01	5	
Co	59	2	He	5.271	5.271	1.64	74628	0.01	5	
Ni	60	2	He	5.393	5.393	4.33	19781	0.03	5	
Cu	63	2	He	5.221	5.221	4.01	50530	0.01	5	
Zn	66	2	He	5.401	5.401	1.57	10571	0.05	5	
Al	27	2	He	6.208	6.208	12.68	4874	0.13	5	
B	11	1	No Gas	25.581	25.581	1.09	82041	0.03	25	
Al	27	1	No Gas	5.625	5.625	2.31	174372	0.00	5	
Si	28	1	No Gas	25.790	25.790	0.80	667378	0.00	25	
Ag	107	1	No Gas	5.202	5.202	1.98	152259	0.00	5	
Cd	111	1	No Gas	5.007	5.007	1.50	28946	0.02	5	
Sr	88	1	No Gas	5.154	5.154	1.44	302243	0.00	5	
Mo	95	1	No Gas	4.974	4.974	2.07	55511	0.01	5	
Sn	118	1	No Gas	5.094	5.094	1.21	105705	0.00	5	
Sb	121	1	No Gas	5.176	5.176	0.87	131070	0.00	5	
Ba	137	1	No Gas	5.133	5.133	2.26	51585	0.01	5	
Tl	205	1	No Gas	4.951	4.951	1.59	342706	0.00	5	
Tl	203	1	No Gas	5.031	5.031	0.85	143078	0.00	5	
Pb	208	1	No Gas	5.053	5.053	1.83	497930	0.00	5	
U	238	1	No Gas	4.859	4.859	0.72	520948	0.00	5	
Ca	43	2	He	522.554	522.554	11.54	1683	31.04	500	
Sb	121	2	He	5.175	5.175	0.86	59078	0.01	5	
Ti	47	2	He	4.893	4.893	2.72	1517	0.32	5	
Cu	63	1	No Gas	5.351	5.351	0.30	107881	0.00	5	
Se	82	1	No Gas	4.873	4.873	11.40	2097	0.23	5	
Zr	90	1	No Gas	4.461	4.461	0.76	166289	0.00	5	
Zr	90	2	He	4.634	4.634	0.95	68158	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	1234538	0.60	1311506	94.13	70	120	

Sample Report

Ge	72	2	He	1011062	0.80	1024231	98.71	70	120	
Ge	72	1	No Gas	3508086	0.50	3625271	96.77	70	120	
In	115	1	No Gas	4756222	0.73	4826624	98.54	70	120	
Bi	209	1	No Gas	5028036	0.84	5040996	99.74	70	120	

Initial Calibration Blank (ICB) Report

Sample Table

Sample Name	ICB
Data File Name	025_ICB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq Date Time	2024-06-26T11:24:47-05:00
Sample Type	ICB
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	0.019	82.1	70126	0.4	0.5	
Be	9	1	No Gas	0.051	17.1	373	10.8	0.5	
V	51	2	He	-0.122	-6.6	5378	2.4	2.5	
Cr	52	2	He	0.136	19.5	9624	2.5	2.5	
Fe	56	2	He	10.257	3.0	105736	3.8	100	
Se	78	2	He	-0.048	-158.3	144	6.4	1	
As	75	2	He	0.072	52.3	371	15.4	2.5	
Ca	44	2	He	58.325	5.9	3964	3.9	100	
Na	23	2	He	65.923	0.3	183184	1.3	100	
Mg	24	2	He	16.534	2.9	14988	2.3	100	
K	39	2	He	4.179	44.3	98835	0.8	100	
Mn	55	2	He	0.254	4.7	2604	3.2	2.5	
Co	59	2	He	0.075	3.8	1513	3.3	2.5	
Ni	60	2	He	0.214	20.8	1087	13.6	2.5	
Cu	63	2	He	0.129	9.7	1847	5.3	1	
Zn	66	2	He	0.858	3.8	2564	2.5	2.5	
Al	27	2	He	3.346	6.6	3294	3.1	5	
B	11	1	No Gas	1.394	8.6	21228	1.7	0.5	ICB Main CR1 Failed
Al	27	1	No Gas	2.814	4.5	116321	1.5	5	
Si	28	1	No Gas	4.852	9.7	447496	0.4	10	
Ag	107	1	No Gas	0.056	15.4	2180	11.6	2.5	
Cd	111	1	No Gas	0.054	14.1	317	13.8	1	
Sr	88	1	No Gas	0.332	3.8	21955	3.5	2.5	
Mo	95	1	No Gas	0.071	18.3	970	14.9	2.5	
Sn	118	1	No Gas	0.132	16.2	8483	5.0	5	
Sb	121	1	No Gas	0.078	14.3	2590	11.7	2.5	
Ba	137	1	No Gas	0.306	10.8	3771	8.5	2.5	
Tl	205	1	No Gas	0.051	5.7	5875	3.1	1	
Tl	203	1	No Gas	0.055	9.0	2490	4.6	1	
Pb	208	1	No Gas	0.061	6.2	10709	2.9	2.5	
U	238	1	No Gas	0.049	7.4	8196	4.7	2.5	
Ca	43	2	He	37.637	61.1	163	44.3	100	
Sb	121	2	He	0.072	2.2	1140	1.5	2.5	
Ti	47	2	He	0.098	18.7	37	15.7	2.5	
Se	82	1	No Gas	-0.135	-119.9	397	13.9	1	
Zr	90	1	No Gas	0.140	12.9	6665	9.9	2.5	
Zr	90	2	He	0.125	7.9	3404	3.0	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	1240530	0.37	1311506	94.59	70	120	
Ge	72	2	He	1006196	1.20	1024231	98.24	70	120	
Ge	72	1	No Gas	3511854	0.77	3625271	96.87	70	120	
In	115	1	No Gas	4755517	0.23	4826624	98.53	70	120	

Initial Calibration Blank (ICB) Report

Bi	209	1	No Gas	4983861	0.91	5040996	98.87	70	120	

Interference Check Solution A (ICS-A) Report

Sample Table

Sample Name	ICSA
Data File Name	027ICSA.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq Date Time	2024-06-26T11:31:37-05:00
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	0.402	16.7	73158	2.5	0	ICSA Main CR1 Failed
Be	9	1	No Gas	0.040	24.2	310	13.8	0	ICSA Main CR1 Failed
V	51	2	He	0.108	12.3	6981	1.1	0	ICSA Main CR1 Failed
Cr	52	2	He	0.887	5.2	15866	2.1	0	ICSA Main CR1 Failed
Fe	56	2	He	104065.120	1.0	887599560	0.8	0	
Se	78	2	He	0.045	259.2	152	10.4	0	ICSA Main CR1 Failed
As	75	2	He	0.466	7.2	886	4.8	0	ICSA Main CR1 Failed
Ca	44	2	He	103526.129	1.5	5363905	1.3	0	
Na	23	2	He	104988.990	1.0	137562371	0.8	0	
Mg	24	2	He	104432.673	1.9	84640867	1.7	0	
K	39	2	He	104873.469	1.7	104026042	1.5	0	
Mn	55	2	He	1.903	2.2	13957	2.2	0	ICSA Main CR1 Failed
Co	59	2	He	1.053	2.0	14745	2.4	0	ICSA Main CR1 Failed
Ni	60	2	He	1.173	3.6	4394	3.0	0	ICSA Main CR1 Failed
Cu	63	2	He	0.745	3.0	7475	2.9	0	ICSA Main CR1 Failed
Zn	66	2	He	3.199	4.7	6458	3.5	0	ICSA Main CR1 Failed
Al	27	2	He	107490.812	2.0	56576767	1.9	0	
B	11	1	No Gas	2.226	5.9	22126	0.6	0	
Al	27	1	No Gas	99157.656	2.8	1956115918	1.4	0	
Si	28	1	No Gas	31.187	3.7	690922	3.0	0	
Ag	107	1	No Gas	0.037	8.5	1490	4.0	0	ICSA Main CR1 Failed
Cd	111	1	No Gas	0.767	8.7	4062	9.9	0	ICSA Main CR1 Failed
Sr	88	1	No Gas	0.951	1.5	53034	0.2	0	ICSA Main CR1 Failed
Mo	95	1	No Gas	2052.198	2.3	20893881	0.8	0	
Sn	118	1	No Gas	0.214	15.6	9240	5.2	0	ICSA Main CR1 Failed
Sb	121	1	No Gas	0.104	14.9	3070	10.7	0	ICSA Main CR1 Failed
Ba	137	1	No Gas	0.466	3.1	4904	2.5	0	ICSA Main CR1 Failed
Tl	205	1	No Gas	0.017	24.4	3194	9.1	0	ICSA Main CR1 Failed
Tl	203	1	No Gas	0.023	4.9	1420	0.7	0	ICSA Main CR1 Failed
Pb	208	1	No Gas	0.922	1.6	84008	0.2	0	ICSA Main CR1 Failed
U	238	1	No Gas	0.020	6.7	4594	2.6	0	ICSA Main CR1 Failed
Ca	43	2	He	101572.100	1.7	306977	1.4	0	
Sb	121	2	He	0.091	22.4	1313	16.6	0	ICSA Main CR1 Failed
Ti	47	2	He	2098.088	1.3	624667	1.1	0	
Se	82	1	No Gas	0.192	51.6	483	5.2	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	1176516	1.47	1311506	89.71	70	120	
Ge	72	2	He	975218	0.45	1024231	95.21	70	120	
Ge	72	1	No Gas	3346497	1.41	3625271	92.31	70	120	
In	115	1	No Gas	4354521	1.63	4826624	90.22	70	120	
Bi	209	1	No Gas	4453690	1.29	5040996	88.35	70	120	

Interference Check Solution AB (ICS-AB) Report

Sample Table

Sample Name	ICSAB
Data File Name	028ICSB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq Date Time	2024-06-26T11:34:07-05:00
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	100.769	2.436	1853517	1.25	100	100.8	180	120	ICSB Main CR1 Failed
Be	9	1	No Gas	94.717	3.401	416224	2.31	100	94.7	80	120	
V	51	2	He	106.085	3.356	842507	1.92	100	106.1	80	120	
Cr	52	2	He	105.779	3.691	948915	2.30	100	105.8	80	120	
Fe	56	2	He	113019.480	3.191	984034252	1.76	100	113019.5	80	120	
Se	78	2	He	109.393	3.572	14962	2.24	100	109.4	80	120	
As	75	2	He	109.267	2.246	149541	0.79	100	109.3	80	120	
Ca	44	2	He	112979.751	2.893	5975697	1.47	100	112979.8	80	120	
Na	23	2	He	115465.714	3.136	154430901	1.79	100	115465.7	80	120	
Mg	24	2	He	113598.350	3.360	93984719	1.95	100	113598.3	80	120	
K	39	2	He	114484.776	2.867	115918375	1.41	100	114484.8	80	120	
Mn	55	2	He	105.914	3.648	750712	2.27	100	105.9	80	120	
Co	59	2	He	104.674	3.523	1450416	2.11	100	104.7	80	120	
Ni	60	2	He	102.423	3.723	364097	2.36	100	102.4	80	120	
Cu	63	2	He	101.031	2.656	951520	1.24	100	101.0	80	120	
Zn	66	2	He	105.865	1.906	184523	0.72	100	105.9	80	120	
Al	27	2	He	105915.734	3.164	56908519	1.77	100	105915.7	80	120	ICSB Main CR1 Failed
B	11	1	No Gas	511.520	2.427	1269901	1.29	100	511.5	80	120	
Al	27	1	No Gas	97956.378	1.878	1988718157	1.32	100	97956.4	80	120	ICSB Main CR1 Failed
Si	28	1	No Gas	548.728	1.350	6056455	0.76	100	548.7	80	120	
Ag	107	1	No Gas	101.051	2.852	2797575	2.06	100	101.1	80	120	
Cd	111	1	No Gas	102.650	2.680	563220	1.81	100	102.6	80	120	
Sr	88	1	No Gas	106.801	2.337	5894592	1.52	100	106.8	80	120	
Mo	95	1	No Gas	2124.316	2.788	22429511	1.94	100	2124.3	80	120	ICSB Main CR1 Failed
Sn	118	1	No Gas	104.020	2.333	1939952	1.47	100	104.0	80	120	
Sb	121	1	No Gas	103.787	2.104	2568058	1.54	100	103.8	80	120	
Ba	137	1	No Gas	103.756	2.129	976293	1.52	100	103.8	80	120	
Tl	205	1	No Gas	93.558	2.054	5862032	1.94	100	93.6	80	120	
Tl	203	1	No Gas	93.195	2.174	2400291	1.98	100	93.2	80	120	
Pb	208	1	No Gas	106.785	1.811	9500810	1.71	100	106.8	80	120	
U	238	1	No Gas	107.975	1.531	10492153	1.36	100	108.0	80	120	
Ca	43	2	He	109610.718	2.886	338178	1.49	100	109610.7	80	120	
Sb	121	2	He	104.464	4.158	1167849	2.94	100	104.5	80	120	
Ti	47	2	He	2170.275	3.062	659619	1.61	100	2170.3	80	120	ICSB Main CR1 Failed
Cu	63	1	No Gas	99.202	1.725	1920038	1.17	100	99.2	80	120	
Se	82	1	No Gas	108.277	2.461	36513	1.87	100	108.3	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	1200658	1.09	1311506	91.55	70	120	
Ge	72	2	He	995805	1.48	1024231	97.22	70	120	
Ge	72	1	No Gas	3443358	0.56	3625271	94.98	70	120	
In	115	1	No Gas	4515532	0.91	4826624	93.55	70	120	
Bi	209	1	No Gas	4582613	0.39	5040996	90.91	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	033_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq Date Time	2024-06-26T11:52:37-05:00
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	96.726	2.870	1663970	2.86	100	96.7	90	110	
Be	9	1	No Gas	97.928	2.434	401883	2.51	100	97.9	90	110	
V	51	2	He	98.999	1.916	775883	2.06	100	99.0	90	110	
Cr	52	2	He	99.945	1.702	884798	2.05	100	99.9	90	110	
Fe	56	2	He	9923.979	1.472	85234640	1.54	10000	99.2	90	110	
Se	78	2	He	100.015	2.490	13503	2.16	100	100.0	90	110	
As	75	2	He	99.217	1.186	133935	1.17	100	99.2	90	110	
Ca	44	2	He	9716.968	1.485	507644	1.62	10000	97.2	90	110	
Na	23	2	He	9729.978	1.953	12918961	2.02	10000	97.3	90	110	
Mg	24	2	He	9784.549	1.429	7985408	1.63	10000	97.8	90	110	
K	39	2	He	9800.020	1.498	9871014	1.78	10000	98.0	90	110	
Mn	55	2	He	99.572	1.342	696153	1.40	100	99.6	90	110	
Co	59	2	He	100.578	2.109	1374603	2.12	100	100.6	90	110	
Ni	60	2	He	100.144	1.464	351128	1.45	100	100.1	90	110	
Cu	63	2	He	100.404	2.290	932584	2.16	100	100.4	90	110	
Zn	66	2	He	100.642	2.867	173040	2.81	100	100.6	90	110	
Al	27	2	He	99.470	1.525	54151	1.29	100	99.5	90	110	
B	11	1	No Gas	482.612	1.755	1119759	1.84	500	96.5	90	110	
Al	27	1	No Gas	97.131	3.383	1995640	2.57	100	97.1	90	110	
Si	28	1	No Gas	477.567	3.727	5234200	2.74	5000	9.6	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	99.902	2.840	2820332	2.55	100	99.9	90	110	
Cd	111	1	No Gas	97.830	2.953	547369	2.71	100	97.8	90	110	
Sr	88	1	No Gas	97.380	2.598	5480784	2.32	100	97.4	90	110	
Mo	95	1	No Gas	96.338	3.660	1037369	3.27	100	96.3	90	110	
Sn	118	1	No Gas	99.055	2.263	1884031	1.91	100	99.1	90	110	
Sb	121	1	No Gas	100.677	3.173	2450413	2.45	100	100.7	90	110	
Ba	137	1	No Gas	97.217	2.728	932797	2.35	100	97.2	90	110	
Tl	205	1	No Gas	101.506	2.816	6721182	2.40	100	101.5	90	110	
Tl	203	1	No Gas	100.915	3.127	2746732	2.71	100	100.9	90	110	
Pb	208	1	No Gas	98.773	2.421	9287785	2.02	100	98.8	90	110	
U	238	1	No Gas	96.435	2.148	9903843	1.75	100	96.4	90	110	
Ca	43	2	He	10104.404	5.433	30784	5.22	10000	101.0	90	110	
Sb	121	2	He	98.690	2.313	1088253	2.41	100	98.7	90	110	
Ti	47	2	He	98.974	1.081	29675	1.41	100	99.0	90	110	
Cu	63	1	No Gas	99.561	2.826	1895488	2.16	100	99.6	90	110	
Se	82	1	No Gas	96.843	1.521	32172	1.13	100	96.8	90	110	
Zr	90	1	No Gas	83.327	3.431	2981302	3.11	100	83.3	90	110	CCV Main CR1-2 Failed
Zr	90	2	He	84.218	1.715	1175805	1.86	100	84.2	90	110	CCV Main CR1-2 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	1121003	0.17	1311506	85.47	70	120	
Ge	72	2	He	981848	0.63	1024231	95.86	70	120	
Ge	72	1	No Gas	3387313	0.73	3625271	93.44	70	120	
In	115	1	No Gas	4604167	0.52	4826624	95.39	70	120	
Bi	209	1	No Gas	4843283	0.42	5040996	96.08	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	034_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq Date Time	2024-06-26T11:55:01-05:00
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	0.019	155.0	67482	0.5	0.5	
Be	9	1	No Gas	0.035	28.1	292	15.0	0.5	
V	51	2	He	-0.493	-2.4	2400	4.2	2.5	
Cr	52	2	He	0.132	60.3	9510	7.7	2.5	
Fe	56	2	He	4.838	11.2	57566	7.9	100	
Se	78	2	He	0.029	158.3	153	4.0	2	
As	75	2	He	0.035	23.8	317	3.8	2.5	
Ca	44	2	He	19.084	12.1	1853	6.9	100	
Na	23	2	He	9.514	11.8	106153	1.4	100	
Mg	24	2	He	0.947	20.0	1940	7.9	100	
K	39	2	He	6.896	4.3	100849	0.5	100	
Mn	55	2	He	0.571	0.9	4834	0.7	2.5	
Co	59	2	He	0.021	45.7	750	17.6	2.5	
Ni	60	2	He	0.518	15.3	2164	13.3	2.5	
Cu	63	2	He	0.148	3.4	2014	2.7	2	
Zn	66	2	He	3.089	4.2	6422	3.1	2.5	CCB Main CR1 Failed
Al	27	2	He	5.124	5.4	4227	3.4	5	CCB Main CR1 Failed
B	11	1	No Gas	1.611	38.1	20959	7.4	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	4.772	2.1	156667	1.3	5	
Si	28	1	No Gas	-1.933	-7.9	375523	0.4	10	
Ag	107	1	No Gas	0.485	20.1	14558	19.7	2.5	
Cd	111	1	No Gas	0.001	741.3	5	435.9	1	
Sr	88	1	No Gas	0.000	-946.6	2630	7.3	2.5	
Mo	95	1	No Gas	0.120	17.9	1500	15.6	2.5	
Sn	118	1	No Gas	0.201	11.7	9744	4.3	5	
Sb	121	1	No Gas	0.194	5.4	5488	4.8	2.5	
Ba	137	1	No Gas	0.012	56.8	847	7.9	2.5	
Tl	205	1	No Gas	0.053	40.7	5992	25.5	1	
Tl	203	1	No Gas	0.052	37.2	2404	23.4	1	
Pb	208	1	No Gas	0.022	10.3	6914	4.0	2.5	
U	238	1	No Gas	0.009	38.2	3944	8.1	2.5	
Ca	43	2	He	23.033	66.2	117	40.5	100	
Sb	121	2	He	0.179	3.6	2337	3.5	2.5	
Ti	47	2	He	0.077	127.7	30	100.0	2.5	
Cu	63	1	No Gas	0.137	14.3	5188	7.4	2.5	
Se	82	1	No Gas	-0.320	-50.9	333	16.5	2	
Zr	90	1	No Gas	0.089	12.6	4731	8.4	2.5	
Zr	90	2	He	0.066	5.3	2554	1.6	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	1193841	0.29	1311506	91.03	70	120	
Ge	72	2	He	998489	0.38	1024231	97.49	70	120	
Ge	72	1	No Gas	3507060	0.11	3625271	96.74	70	120	

Continuing Calibration Blank (CCB) Report

In	115	1	No Gas	4705548	0.37	4826624	97.49	70	120	
Bi	209	1	No Gas	4980439	1.04	5040996	98.80	70	120	

Sample Report

Sample Table

Sample Name	HS24060694-01
Data File Name	039SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq Date Time	2024-06-26T12:09:26-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 213798
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Fail

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	16.034	16.034	1.69	406660	0.00	2000	
Be	9	1	No Gas	0.020	0.020	23.83	260	0.01	2000	
V	51	2	He	-0.471	-0.471	-3.80	2565	-0.02	2000	
Cr	52	2	He	0.376	0.376	13.13	11663	0.00	2000	
Fe	56	2	He	235.717	235.717	1.77	2069996	0.01	200000	
Se	78	2	He	0.424	0.424	70.33	207	0.21	2000	
As	75	2	He	0.288	0.288	23.00	662	0.04	2000	
Ca	44	2	He	17752.966	17752.966	1.64	940743	1.89	200000	
Na	23	2	He	200993.580	200993.580	1.29	269059676	0.07	200000	>LDR
Mg	24	2	He	9544.915	9544.915	1.76	7907227	0.12	200000	
K	39	2	He	1265.314	1265.314	1.82	1375231	0.09	200000	
Mn	55	2	He	302.868	302.868	4.20	2147677	0.01	2000	
Co	59	2	He	1.310	1.310	11.54	18631	0.01	2000	
Ni	60	2	He	2.383	2.383	4.09	8793	0.03	2000	
Cu	63	2	He	0.676	0.676	10.28	6982	0.01	2000	
Zn	66	2	He	4.939	4.939	2.50	9620	0.05	2000	
Al	27	2	He	2.952	2.952	26.67	3051	0.10	2000	
B	11	1	No Gas	9.193	9.193	1.87	45839	0.02	2000	
Al	27	1	No Gas	2.441	2.441	43.55	109793	0.00	2000	
Si	28	1	No Gas	26613.066	26613.066	1.58	283775616	0.01	2000	>LDR
Ag	107	1	No Gas	0.048	0.048	8.23	1870	0.00	2000	
Cd	111	1	No Gas	0.161	0.161	4.81	893	0.02	2000	
Sr	88	1	No Gas	264.645	264.645	1.77	14763322	0.00	2000	
Mo	95	1	No Gas	0.321	0.321	15.83	3601	0.01	2000	
Sn	118	1	No Gas	-0.263	-0.263	-1.68	720	-0.04	2000	
Sb	121	1	No Gas	0.116	0.116	3.97	3577	0.00	2000	
Ba	137	1	No Gas	208.679	208.679	1.55	1984412	0.01	2000	
Tl	205	1	No Gas	0.000	0.000	831.79	2977	0.00	2000	
Tl	203	1	No Gas	0.004	0.004	85.65	1297	0.00	2000	
Pb	208	1	No Gas	0.004	0.004	52.15	6377	0.00	2000	
U	238	1	No Gas	0.427	0.427	4.97	59202	0.00	2000	
Ca	43	2	He	17686.285	17686.285	2.23	54667	32.35	200000	
Sb	121	2	He	0.141	0.141	6.06	1897	0.01	2000	
Ti	47	2	He	1.469	1.469	0.88	453	0.32	2000	
Cu	63	1	No Gas	4.970	4.970	2.18	101571	0.00	2000	
Ca	44	1	No Gas	16844.325	16844.325	1.72	13449818	0.13	200000	
Zn	66	1	No Gas	4.732	4.732	1.39	26900	0.02	2000	
Se	82	1	No Gas	0.329	0.329	88.01	560	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	1388120	0.51	1311506	105.84	70	120	
Ge	72	2	He	996637	0.42	1024231	97.31	70	120	
Ge	72	1	No Gas	3549574	0.18	3625271	97.91	70	120	
In	115	1	No Gas	4564773	0.36	4826624	94.57	70	120	
Bi	209	1	No Gas	6135876	3.68	5040996	121.72	70	120	ISTD Failed

Sample Report

Sample Table

Sample Name	HS24060694-01SD
Data File Name	041SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq Date Time	2024-06-26T12:15:58-05:00
Sample Type	Sample
Dilution	5
Comment	TW DOD B 213798
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	3.192	15.958	3.00	135255	0.00	2000	
Be	9	1	No Gas	0.004	0.021	48.60	172	0.00	2000	
V	51	2	He	0.152	0.759	9.35	7409	0.00	2000	
Cr	52	2	He	-0.144	-0.721	-24.68	6965	0.00	2000	
Fe	56	2	He	47.713	238.564	2.03	426857	0.01	200000	
Se	78	2	He	0.172	0.858	61.67	171	0.10	2000	
As	75	2	He	0.106	0.529	41.73	409	0.03	2000	
Ca	44	2	He	3426.752	17133.760	1.53	180434	1.90	200000	
Na	23	2	He	39831.359	199156.797	1.71	52857528	0.08	200000	
Mg	24	2	He	1892.473	9462.366	1.46	1552923	0.12	200000	
K	39	2	He	243.842	1219.212	3.11	337220	0.07	200000	
Mn	55	2	He	59.724	298.622	4.95	419874	0.01	2000	
Co	59	2	He	0.281	1.407	11.38	4318	0.01	2000	
Ni	60	2	He	0.490	2.451	7.59	2040	0.02	2000	
Cu	63	2	He	0.140	0.701	5.97	1917	0.01	2000	
Zn	66	2	He	0.801	4.005	7.70	2417	0.03	2000	
Al	27	2	He	0.698	3.492	46.78	1820	0.04	2000	
B	11	1	No Gas	0.338	1.691	18.45	19570	0.00	2000	
Al	27	1	No Gas	0.406	2.031	41.33	66028	0.00	2000	
Si	28	1	No Gas	5116.943	25584.714	2.49	53933068	0.01	2000	>LDR
Ag	107	1	No Gas	0.091	0.453	34.15	3034	0.00	2000	
Cd	111	1	No Gas	0.022	0.112	58.23	125	0.02	2000	
Sr	88	1	No Gas	53.301	266.504	2.52	2939345	0.00	2000	
Mo	95	1	No Gas	0.047	0.233	12.50	660	0.01	2000	
Sn	118	1	No Gas	-0.098	-0.489	-7.44	3784	0.00	2000	
Sb	121	1	No Gas	0.041	0.205	24.20	1633	0.00	2000	
Ba	137	1	No Gas	41.913	209.567	2.31	394298	0.01	2000	
Tl	205	1	No Gas	0.000	0.000	-16759.67	2210	0.00	2000	
Tl	203	1	No Gas	0.005	0.023	76.92	1000	0.00	2000	
Pb	208	1	No Gas	0.133	0.663	1.25	16321	0.00	2000	
U	238	1	No Gas	0.122	0.612	3.52	14729	0.00	2000	
Ca	43	2	He	3421.550	17107.751	5.65	10504	32.57	200000	
Sb	121	2	He	0.037	0.183	13.46	727	0.01	2000	
Ti	47	2	He	0.277	1.386	42.58	90	0.31	2000	
Cu	63	1	No Gas	0.511	2.553	6.13	12479	0.00	2000	
Ca	44	1	No Gas	3375.444	16877.220	2.57	2678437	0.13	200000	
Zn	66	1	No Gas	0.953	4.765	9.97	7352	0.01	2000	
Se	82	1	No Gas	-0.118	-0.592	-269.93	400	-0.03	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	1308436	0.37	1311506	99.77	70	120	
Ge	72	2	He	986673	0.49	1024231	96.33	70	120	
Ge	72	1	No Gas	3488473	1.30	3625271	96.23	70	120	

Sample Report

In	115	1	No Gas	4509714	0.81	4826624	93.43	70	120	
Bi	209	1	No Gas	4605533	0.82	5040996	91.36	70	120	

Sample Report

Sample Table

Sample Name	HS24060694-01MS
Data File Name	042SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq Date Time	2024-06-26T12:18:22-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 213798
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	15.975	15.975	1.28	399778	0.00	2000	
Be	9	1	No Gas	103.992	103.992	1.67	521055	0.02	2000	
V	51	2	He	108.074	108.074	1.24	791272	0.01	2000	
Cr	52	2	He	108.451	108.451	1.57	896865	0.01	2000	
Fe	56	2	He	11192.131	11192.131	1.04	89861892	0.01	200000	
Se	78	2	He	115.767	115.767	1.85	14591	0.79	2000	
As	75	2	He	116.198	116.198	1.23	146598	0.08	2000	
Ca	44	2	He	29136.952	29136.952	1.98	1421529	2.05	200000	
Na	23	2	He	214109.052	214109.052	1.50	263954589	0.08	200000	>LDR
Mg	24	2	He	21264.701	21264.701	1.53	16222373	0.13	200000	
K	39	2	He	13150.260	13150.260	1.68	12352814	0.11	200000	
Mn	55	2	He	412.045	412.045	2.08	2691007	0.02	2000	
Co	59	2	He	110.313	110.313	1.08	1409374	0.01	2000	
Ni	60	2	He	108.647	108.647	0.81	356097	0.03	2000	
Cu	63	2	He	108.068	108.068	1.07	938360	0.01	2000	
Zn	66	2	He	118.677	118.677	1.55	190587	0.06	2000	
Al	27	2	He	117.288	117.288	1.60	59452	0.20	2000	
B	11	1	No Gas	8.452	8.452	1.82	43127	0.02	2000	
Al	27	1	No Gas	116.684	116.684	1.14	2347502	0.00	2000	
Si	28	1	No Gas	27109.486	27109.486	0.77	271316283	0.01	2000	>LDR
Ag	107	1	No Gas	108.214	108.214	5.38	2788493	0.00	2000	
Cd	111	1	No Gas	107.440	107.440	1.74	549019	0.02	2000	
Sr	88	1	No Gas	268.263	268.263	0.76	13783683	0.00	2000	
Mo	95	1	No Gas	82.876	82.876	2.62	814722	0.01	2000	
Sn	118	1	No Gas	-0.258	-0.258	-3.61	747	-0.03	2000	
Sb	121	1	No Gas	98.303	98.303	0.56	2353635	0.00	2000	
Ba	137	1	No Gas	319.515	319.515	1.40	2798467	0.01	2000	
Tl	205	1	No Gas	86.831	86.831	2.11	6312512	0.00	2000	
Tl	203	1	No Gas	86.154	86.154	2.67	2574218	0.00	2000	
Pb	208	1	No Gas	81.430	81.430	1.80	8409465	0.00	2000	
U	238	1	No Gas	0.487	0.487	0.47	58090	0.00	2000	
Ca	43	2	He	29090.614	29090.614	2.72	82789	35.14	200000	
Sb	121	2	He	100.741	100.741	1.06	1038428	0.01	2000	
Ti	47	2	He	114.127	114.127	2.53	31990	0.36	2000	
Cu	63	1	No Gas	111.695	111.695	0.68	2091617	0.01	2000	
Ca	44	1	No Gas	27853.963	27853.963	0.77	20853393	0.13	200000	
Zn	66	1	No Gas	115.229	115.229	1.65	558231	0.02	2000	
Se	82	1	No Gas	108.551	108.551	2.99	35427	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	1368566	1.28	1311506	104.35	70	120	
Ge	72	2	He	917824	0.88	1024231	89.61	70	120	
Ge	72	1	No Gas	3331451	2.34	3625271	91.90	70	120	
In	115	1	No Gas	4203975	1.85	4826624	87.10	70	120	
Bi	209	1	No Gas	5318721	3.61	5040996	105.51	70	120	

Sample Report

Sample Table

Sample Name	HS24060694-01MSD
Data File Name	043SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq Date Time	2024-06-26T12:20:49-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 213798
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	16.126	16.126	2.20	397833	0.00	2000	
Be	9	1	No Gas	102.134	102.134	1.33	505373	0.02	2000	
V	51	2	He	105.780	105.780	2.96	766091	0.01	2000	
Cr	52	2	He	106.488	106.488	2.95	871070	0.01	2000	
Fe	56	2	He	10967.891	10967.891	2.16	87100595	0.01	200000	
Se	78	2	He	113.730	113.730	2.44	14180	0.80	2000	
As	75	2	He	115.167	115.167	2.32	143708	0.08	2000	
Ca	44	2	He	29188.204	29188.204	2.69	1408358	2.07	200000	
Na	23	2	He	215886.018	215886.018	2.69	263226463	0.08	200000	>LDR
Mg	24	2	He	21195.656	21195.656	2.75	15992016	0.13	200000	
K	39	2	He	12938.482	12938.482	2.82	12021195	0.11	200000	
Mn	55	2	He	414.661	414.661	4.42	2677447	0.02	2000	
Co	59	2	He	107.662	107.662	2.31	1360564	0.01	2000	
Ni	60	2	He	106.594	106.594	2.21	345561	0.03	2000	
Cu	63	2	He	107.096	107.096	1.80	919817	0.01	2000	
Zn	66	2	He	117.456	117.456	3.16	186537	0.06	2000	
Al	27	2	He	114.339	114.339	4.44	57337	0.20	2000	
B	11	1	No Gas	8.748	8.748	1.77	43409	0.02	2000	
Al	27	1	No Gas	119.609	119.609	2.52	2282262	0.01	2000	
Si	28	1	No Gas	27876.504	27876.504	1.83	264748023	0.01	2000	>LDR
Ag	107	1	No Gas	111.020	111.020	5.25	2670786	0.00	2000	
Cd	111	1	No Gas	107.811	107.811	2.37	513961	0.02	2000	
Sr	88	1	No Gas	278.652	278.652	1.94	13358818	0.00	2000	
Mo	95	1	No Gas	85.389	85.389	1.00	783646	0.01	2000	
Sn	118	1	No Gas	-0.255	-0.255	-3.69	757	-0.03	2000	
Sb	121	1	No Gas	97.048	97.048	0.90	2205143	0.00	2000	
Ba	137	1	No Gas	323.061	323.061	2.29	2639729	0.01	2000	
Tl	205	1	No Gas	82.660	82.660	1.63	5801931	0.00	2000	
Tl	203	1	No Gas	82.045	82.045	1.67	2367247	0.00	2000	
Pb	208	1	No Gas	77.638	77.638	1.69	7739206	0.00	2000	
U	238	1	No Gas	0.478	0.478	1.55	55170	0.00	2000	
Ca	43	2	He	28982.165	28982.165	3.07	81558	35.54	200000	
Sb	121	2	He	100.350	100.350	2.52	1023140	0.01	2000	
Ti	47	2	He	112.928	112.928	2.08	31306	0.36	2000	
Cu	63	1	No Gas	111.980	111.980	0.94	1989913	0.01	2000	
Ca	44	1	No Gas	28352.300	28352.300	1.13	20142028	0.14	200000	
Zn	66	1	No Gas	114.609	114.609	1.47	526811	0.02	2000	
Se	82	1	No Gas	109.002	109.002	1.34	33752	0.32	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	1351698	0.44	1311506	103.06	70	120	
Ge	72	2	He	908181	2.73	1024231	88.67	70	120	
Ge	72	1	No Gas	3161782	0.38	3625271	87.22	70	120	
In	115	1	No Gas	3923441	1.38	4826624	81.29	70	120	
Bi	209	1	No Gas	5133825	1.47	5040996	101.84	70	120	

Sample Report

Sample Table

Sample Name	HS24060694-01PDS
Data File Name	044SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq Date Time	2024-06-26T12:23:17-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 213798
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	16.403	16.403	3.12	404203	0.00	2000	
Be	9	1	No Gas	102.913	102.913	3.14	510232	0.02	2000	
V	51	2	He	103.206	103.206	2.11	750261	0.01	2000	
Cr	52	2	He	104.473	104.473	1.72	857794	0.01	2000	
Fe	56	2	He	10771.334	10771.334	1.67	85840089	0.01	200000	
Se	78	2	He	113.924	113.924	1.71	14253	0.80	2000	
As	75	2	He	112.735	112.735	2.16	141174	0.08	2000	
Ca	44	2	He	28656.868	28656.868	1.71	1387655	2.07	200000	
Na	23	2	He	212071.389	212071.389	2.11	259492143	0.08	200000	>LDR
Mg	24	2	He	20697.084	20697.084	1.85	15671514	0.13	200000	
K	39	2	He	12662.452	12662.452	1.48	11809089	0.11	200000	
Mn	55	2	He	403.051	403.051	1.76	2612515	0.02	2000	
Co	59	2	He	105.522	105.522	1.76	1338156	0.01	2000	
Ni	60	2	He	104.892	104.892	1.02	341243	0.03	2000	
Cu	63	2	He	104.320	104.320	1.13	899076	0.01	2000	
Zn	66	2	He	115.874	115.874	2.47	184720	0.06	2000	
Al	27	2	He	112.946	112.946	1.26	56875	0.20	2000	
B	11	1	No Gas	8.577	8.577	4.74	43025	0.02	2000	
Al	27	1	No Gas	118.919	118.919	2.32	2236397	0.01	2000	
Si	28	1	No Gas	28693.372	28693.372	2.37	268574523	0.01	2000	>LDR
Ag	107	1	No Gas	108.164	108.164	2.97	2573963	0.00	2000	
Cd	111	1	No Gas	107.454	107.454	2.13	506808	0.02	2000	
Sr	88	1	No Gas	279.508	279.508	1.65	13256844	0.00	2000	
Mo	95	1	No Gas	84.743	84.743	1.45	769312	0.01	2000	
Sn	118	1	No Gas	-0.260	-0.260	-1.22	660	-0.04	2000	
Sb	121	1	No Gas	97.097	97.097	2.57	2174395	0.00	2000	
Ba	137	1	No Gas	326.053	326.053	1.38	2635840	0.01	2000	
Tl	205	1	No Gas	82.136	82.136	2.34	5730432	0.00	2000	
Tl	203	1	No Gas	82.147	82.147	3.29	2355478	0.00	2000	
Pb	208	1	No Gas	77.336	77.336	2.20	7662924	0.00	2000	
U	238	1	No Gas	0.475	0.475	4.33	54393	0.00	2000	
Ca	43	2	He	28848.818	28848.818	2.11	81481	35.41	200000	
Sb	121	2	He	97.907	97.907	1.87	1001733	0.01	2000	
Ti	47	2	He	110.992	110.992	3.01	30878	0.36	2000	
Cu	63	1	No Gas	111.704	111.704	1.78	1956420	0.01	2000	
Ca	44	1	No Gas	28683.627	28683.627	2.31	20083049	0.14	200000	
Zn	66	1	No Gas	113.918	113.918	1.69	516144	0.02	2000	
Se	82	1	No Gas	108.049	108.049	4.55	32970	0.33	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	1354736	1.56	1311506	103.30	70	120	
Ge	72	2	He	911032	0.50	1024231	88.95	70	120	
Ge	72	1	No Gas	3116664	1.45	3625271	85.97	70	120	
In	115	1	No Gas	3881112	0.74	4826624	80.41	70	120	
Bi	209	1	No Gas	5104647	3.15	5040996	101.26	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\062624A.b
Acq Date Time	2024-06-26T12:33:12-05:00
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	96.283	1.798	1848806	3.32	100	96.3	90	110	
Be	9	1	No Gas	95.472	1.389	437237	2.90	100	95.5	90	110	
V	51	2	He	104.049	2.010	774203	1.77	100	104.0	90	110	
Cr	52	2	He	104.550	2.064	878698	1.81	100	104.6	90	110	
Fe	56	2	He	10275.487	1.600	83823912	1.58	10000	102.8	90	110	
Se	78	2	He	101.165	1.308	12973	1.75	100	101.2	90	110	
As	75	2	He	103.607	1.679	132827	1.33	100	103.6	90	110	
Ca	44	2	He	10246.287	2.043	508374	1.85	10000	102.5	90	110	
Na	23	2	He	10427.595	1.856	13143728	1.61	10000	104.3	90	110	
Mg	24	2	He	10465.224	2.129	8112032	2.06	10000	104.7	90	110	
K	39	2	He	10397.938	2.174	9941929	2.06	10000	104.0	90	110	
Mn	55	2	He	104.016	1.747	690678	1.47	100	104.0	90	110	
Co	59	2	He	103.596	1.894	1344782	1.88	100	103.6	90	110	
Ni	60	2	He	104.388	2.224	347646	2.46	100	104.4	90	110	
Cu	63	2	He	103.851	1.539	916185	1.47	100	103.9	90	110	
Zn	66	2	He	103.778	2.412	169443	2.16	100	103.8	90	110	
Al	27	2	He	104.669	2.305	54050	2.11	100	104.7	90	110	
B	11	1	No Gas	455.806	0.842	1181123	2.40	500	91.2	90	110	
Al	27	1	No Gas	104.583	2.291	2088441	2.34	100	104.6	90	110	
Si	28	1	No Gas	521.350	3.672	5531098	3.79	5000	10.4	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	102.630	1.802	2708671	2.07	100	102.6	90	110	
Cd	111	1	No Gas	100.648	2.100	526480	2.51	100	100.6	90	110	
Sr	88	1	No Gas	102.342	2.048	5384774	2.21	100	102.3	90	110	
Mo	95	1	No Gas	100.486	2.609	1011663	3.05	100	100.5	90	110	
Sn	118	1	No Gas	101.137	1.271	1798277	1.64	100	101.1	90	110	
Sb	121	1	No Gas	99.171	1.862	2350759	2.17	100	99.2	90	110	
Ba	137	1	No Gas	100.189	1.862	898717	2.16	100	100.2	90	110	
Tl	205	1	No Gas	104.016	2.046	6329561	2.47	100	104.0	90	110	
Tl	203	1	No Gas	103.468	1.311	2588125	1.79	100	103.5	90	110	
Pb	208	1	No Gas	101.010	1.988	8728486	2.26	100	101.0	90	110	
U	238	1	No Gas	97.681	1.437	9218801	1.65	100	97.7	90	110	
Ca	43	2	He	10325.075	2.413	29879	2.35	10000	103.3	90	110	
Sb	121	2	He	100.991	1.795	1057726	1.82	100	101.0	90	110	
Ti	47	2	He	105.644	1.276	30086	1.86	100	105.6	90	110	
Cu	63	1	No Gas	102.933	1.408	1908352	1.50	100	102.9	90	110	
Se	82	1	No Gas	98.275	2.156	31788	2.66	100	98.3	90	110	
Zr	90	1	No Gas	87.929	2.314	2941106	2.54	100	87.9	90	110	CCV Main CR1-2 Failed
Zr	90	2	He	86.847	2.053	1151565	1.85	100	86.8	90	110	CCV Main CR1-2 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	1250833	1.60	1311506	95.37	70	120	
Ge	72	2	He	932591	0.83	1024231	91.05	70	120	
Ge	72	1	No Gas	3298332	0.79	3625271	90.98	70	120	
In	115	1	No Gas	4304087	0.89	4826624	89.17	70	120	
Bi	209	1	No Gas	4450495	0.62	5040996	88.29	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\062624A.b
Acq Date Time	2024-06-26T12:35:36-05:00
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	0.237	15.5	73855	0.9	0.5	
Be	9	1	No Gas	0.006	86.3	170	13.5	0.5	
V	51	2	He	0.176	5.3	7186	0.1	2.5	
Cr	52	2	He	0.112	34.9	8720	2.9	2.5	
Fe	56	2	He	4.274	2.2	49198	1.8	100	
Se	78	2	He	0.225	94.8	168	15.5	2	
As	75	2	He	0.084	22.5	358	6.0	2.5	
Ca	44	2	He	45.957	13.6	3064	10.3	100	
Na	23	2	He	33.742	1.3	129523	0.4	100	
Mg	24	2	He	1.830	3.9	2497	1.4	100	
K	39	2	He	9.415	14.9	96602	0.6	100	
Mn	55	2	He	0.179	3.3	1917	1.7	2.5	
Co	59	2	He	0.010	50.5	567	12.8	2.5	
Ni	60	2	He	0.155	18.9	813	11.7	2.5	
Cu	63	2	He	0.079	15.1	1273	7.6	2	
Zn	66	2	He	0.874	8.2	2404	5.5	2.5	
Al	27	2	He	2.554	21.8	2657	11.3	5	
B	11	1	No Gas	2.445	39.2	23807	10.5	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	2.530	11.6	103288	6.0	5	
Si	28	1	No Gas	6.578	3.5	435411	0.8	10	
Ag	107	1	No Gas	0.093	20.7	2964	16.7	2.5	
Cd	111	1	No Gas	0.002	228.9	11	190.0	1	
Sr	88	1	No Gas	0.109	6.0	8209	5.1	2.5	
Mo	95	1	No Gas	0.137	3.8	1553	3.9	2.5	
Sn	118	1	No Gas	0.113	20.9	7402	6.7	5	
Sb	121	1	No Gas	0.151	8.0	4144	7.4	2.5	
Ba	137	1	No Gas	0.233	6.9	2780	4.4	2.5	
Tl	205	1	No Gas	0.041	51.9	4754	28.4	1	
Tl	203	1	No Gas	0.045	45.9	2027	26.6	1	
Pb	208	1	No Gas	0.016	19.2	5811	4.5	2.5	
U	238	1	No Gas	0.003	42.8	3074	5.0	2.5	
Ca	43	2	He	63.773	14.2	227	11.1	100	
Sb	121	2	He	0.131	8.0	1670	5.7	2.5	
Ti	47	2	He	0.049	70.9	20	50.0	2.5	
Cu	63	1	No Gas	0.172	3.3	5505	2.4	2.5	
Se	82	1	No Gas	0.041	280.5	427	8.2	2	
Zr	90	1	No Gas	0.108	20.0	4988	15.3	2.5	
Zr	90	2	He	0.078	16.2	2540	5.9	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	1236150	0.39	1311506	94.25	70	120	
Ge	72	2	He	932872	0.81	1024231	91.08	70	120	
Ge	72	1	No Gas	3283397	0.55	3625271	90.57	70	120	

Continuing Calibration Blank (CCB) Report

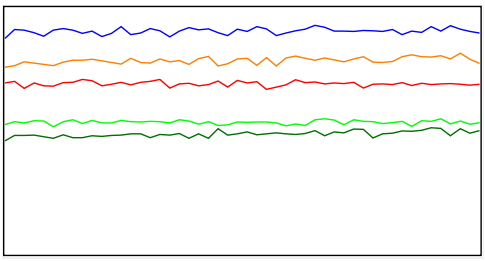
In	115	1	No Gas	4335697	0.93	4826624	89.83	70	120	
Bi	209	1	No Gas	4554468	0.53	5040996	90.35	70	120	

Tune Check Report

Operator Name	ALSHS NoUser
Acq/Data Batch	C:\Agilent\ICPMH\1\DATA\062624A.b
Acq. Date-Time	6/26/2024 9:44:19 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	6914	69141.63		
24	50000	26745	267454.27		
59	50000	45257	452570.16		
115	100000	78557	785565.27		
208	100000	48777	487773.85		

Mass	Resp Ratio	Resp Ratio (Required)	Resp Ratio (Flag)
9		-	
24		-	
59		-	
115		-	
208		-	

Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	1.335	5.000	
24	1.476	5.000	
59	1.329	5.000	
115	1.690	5.000	
208	2.491	5.000	

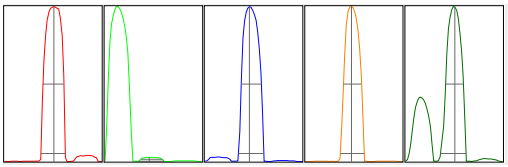
Mass	Background	Background (Required)	Background (Flag)
9	2.200		
24	1.700		
59	1.300		
115	1.400		
208	3.400		

Oxide/Doubly Charged Ratio

Oxide	156 / 140 1.109 %
Doubly Charged	70 / 140 0.890 %

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	7001.27	9.05	8.90 - 9.10	
24	27121.43	23.90	23.90 - 24.10	
59	45960.25	58.90	58.90 - 59.10	
115	79360.88	114.95	114.90 - 115.10	
208	47685.70	208.05	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.63	0.743		
24	0.66	0.766		
59	0.62	0.780		
115	0.55	0.732		
208	0.55	0.780		

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	0.9993	QP Bias	-3.0 V
Mass Offset	126	Axis Offset	0.10		

Hardware Settings

Torch

Torch H	0.0 mm	Torch V	-0.4 mm

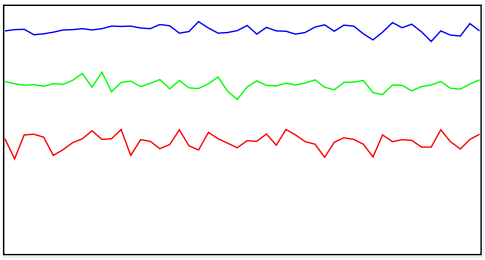
EM

Discriminator	2.9 mV	Analog HV	2151 V	Pulse HV	918 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	226	2262.38		
24	2000	1366	13661.16		
59	20000	18118	181179.61		

Mass	Resp Ratio	Resp Ratio (Required)	Resp Ratio (Flag)
9		-	
24		-	
59		-	

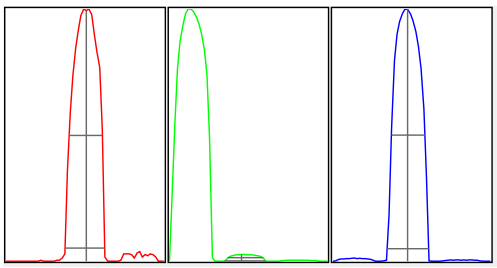
Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	6.711	5.000	Fail
24	2.932	5.000	
59	1.861	5.000	

Mass	Background	Background (Required)	Background (Flag)
9	0.600		
24	0.600		
59	0.200		

Oxide/Doubly Charged Ratio

Oxide	156 / 140 1.428 %
Doubly Charged	70 / 140 0.809 %

Resolution/Axis



Integration Time [sec]	0.1
Acquisition Time [sec]	22.24
Y Axis	Linear

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	236.78	9.05	8.90 - 9.10	
24	1431.78	23.90	23.90 - 24.10	
59	18623.73	58.95	58.90 - 59.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.62	0.743		
24	0.66	0.766		

Tune Check Report

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
59	0.62	0.780		

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	0.9993	QP Bias	-18.0 V
Mass Offset	126	Axis Offset	0.10		

Hardware Settings

Torch

Torch H	0.0 mm	Torch V	-0.4 mm

EM

Discriminator	2.9 mV	Analog HV	2151 V	Pulse HV	918 V

Prep Batch Report

Batch ID:	213798	**Init Sample Weight / Volume:**	10
Prep Code:	3010A	**Final Sample Volume:**	10
Start Date:	19 Jun 2024 03:00 PM	**Original Factor:**	1
End Date:	19 Jun 2024 07:00 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
HS24060694-01	C	Water	<2	10	10	1	1	DOD
HS24060694-01MS	A		<2	10	10	1	1	
HS24060694-01MSD	A		<2	10	10	1	1	
HS24060694-01PDS	A		<2	10	10	1	1	
HS24060694-01SD	A		<2	10	10	1	1	
HS24060694-02	C	Water	<2	10	10	1	1	
HS24060694-03	C	Water	<2	10	10	1	1	
HS24060694-06	C	Water	<2	10	10	1	1	
HS24060694-08	C	Water	<2	10	10	1	1	
HS24060747-03	C	Groundwater	<2	10	10	1	1	
HS24060747-05	C	Groundwater	<2	10	10	1	1	
HS24060747-07	C	Groundwater	<2	10	10	1	1	
HS24060747-09	C	Groundwater	<2	10	10	1	1	
HS24060795-03	C	Water	<2	10	10	1	1	
HS24060795-04	C	Water	<2	10	10	1	1	
HS24060795-05	C	Water	<2	10	10	1	1	
HS24060795-07	C	Water	<2	10	10	1	1	
HS24060795-08	C	Water	<2	10	10	1	1	
HS24060795-09	C	Water	<2	10	10	1	1	
HS24060899-03	C	Water	<2	10	10	1	1	
HS24060899-05	C	Water	<2	10	10	1	1	
HS24060899-07	C	Water	<2	10	10	1	1	
LCS-213798	A			10	10	1	1	
MBLK-213798	A			10	10	1	1	

Prep Batch Report

Batch ID:	213798	**Init Sample Weight / Volume:**	10
Prep Code:	3010A	**Final Sample Volume:**	10
Start Date:	19 Jun 2024 03:00 PM	**Original Factor:**	1
End Date:	19 Jun 2024 07:00 PM	**Prep Unit Factor:**	1
Technician:	Dominique Mitchel	**Prep Unit:**	mL

Stage	Description	Value
3010A	Hot Block ID	HB9
3010A	Thermometer ID	S06761
3010A	Thermometer Location	F6
3010A	Dig. Cup ID	3111202609
3010A	FilterMate ID	NA
3010A	LCS/MS Spike ID	3111202611
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)

Prep Batch Report

Batch ID:	214008	**Init Sample Weight / Volume:**	10
Prep Code:	Hg_WPr	**Final Sample Volume:**	10
Start Date:	24 Jun 2024 09:00 AM	**Original Factor:**	1
End Date:	24 Jun 2024 12:00 PM	**Prep Unit Factor:**	1
Technician:	Jacob Salome	**Prep Unit:**	mL

Sample ID	Fraction	Matrix	pH	Initial Weight / Volume	Final Volume	Prep Factor	Spike Factor	Comments
HS24060694-01	C	Water		10	10	1	1	
HS24060694-02	C	Water		10	10	1	1	
HS24060694-02MS	A			10	10	1	1	
HS24060694-02MSD	A			10	10	1	1	
HS24060694-03	C	Water		10	10	1	1	
HS24060694-06	C	Water		10	10	1	1	
HS24060694-08	C	Water		10	10	1	1	
HS24060747-03	C	Groundwater		10	10	1	1	
HS24060747-05	C	Groundwater		10	10	1	1	
HS24060747-07	C	Groundwater		10	10	1	1	
HS24060747-09	C	Groundwater		10	10	1	1	
HS24060795-03	C	Water		10	10	1	1	
HS24060795-04	C	Water		10	10	1	1	
HS24060795-05	C	Water		10	10	1	1	
HS24060795-07	C	Water		10	10	1	1	
HS24060795-08	C	Water		10	10	1	1	
HS24060795-09	C	Water		10	10	1	1	
HS24060899-03	C	Water		10	10	1	1	
HS24060899-05	C	Water		10	10	1	1	
HS24060899-07	C	Water		10	10	1	1	
LCS-214008	A			10	10	1	1	
MBLK-214008	A			10	10	1	1	

Prep Batch Report

Batch ID:	214008	**Init Sample Weight / Volume:**	10
Prep Code:	Hg_WPr	**Final Sample Volume:**	10
Start Date:	24 Jun 2024 09:00 AM	**Original Factor:**	1
End Date:	24 Jun 2024 12:00 PM	**Prep Unit Factor:**	1
Technician:	Jacob Salome	**Prep Unit:**	mL

Stage	Description	Value
200.8PR	Dig. End Temp, C (U)	94
HG	Sample Tube	3111202316
Hg_W	Method for SOP HS-MET004 (7470A / EPA 245.1)	7470A / EPA 245.1
Hg_W	Cal Std ID	CalStd ID -062424
Hg_W	Cal 0.0 vol, mL	0
Hg_W	Cal 0.2 vol, mL	0.10
Hg_W	Cal 0.5 vol, mL	0.25
Hg_W	Cal 2.0 vol, mL	1
Hg_W	Cal 5.0 vol, mL	2.5
Hg_W	Cal 10.0 vol, mL	5
Hg_W	ICV Std vol, mL	0.25
Hg_W	ICB Std vol, mL	0
Hg_W	CCV Std vol, mL	2.5
Hg_W	CCB Std vol, mL	0
Hg_W	Digestion Cup ID	3111202516
Hg_W	Filter ID	N/A
Hg_W	Hotblock ID	HB 1
Hg_W	Thermometer ID	W21857
Hg_W	Thermometer Position	A10
Hg_W	LCS/MS ID:	02- SPK- 062124
Hg_W	LCS Volume, mL	0.5
Hg_W	MS Volume, mL	0.5
Hg_W	H2SO4 ID	311120201819
Hg_W	K2S2O8 ID	PER - 7/3/23
Hg_W	HNO3 ID	3111202304
Hg_W	5% KMnO4 ID	KMNO - 7/3/23
Hg_W	NaCl/Hydroxylamine ID	HYDRO - 7/3/23
Hg_W	Dig. Start Time	13:30PM
Hg_W	Dig. Start Temp, C (U)	94
Hg_W	Dig. Start Temp, C (C)	94
Hg_W	0.5 mL H2SO4 (Time)	YES
Hg_W	0.25 mL HNO3 (Time)	YES
Hg_W	Dig. End Time	15:30PM
Hg_W	1.5 mL 5% KMnO4 (Time)	YES
Hg_W	Dig. End Temp, C (C)	94

Prep Batch Report

Batch ID:	214008	**Init Sample Weight / Volume:**	10
Prep Code:	Hg_WPr	**Final Sample Volume:**	10
Start Date:	24 Jun 2024 09:00 AM	**Original Factor:**	1
End Date:	24 Jun 2024 12:00 PM	**Prep Unit Factor:**	1
Technician:	Jacob Salome	**Prep Unit:**	mL

Stage	Description	Value
Hg_W	0.6 mL NaCl/Hydrox. (Time)	YES
Hg_W	0.8 mL K2S2O8 (Time)	YES
Hg_W	0.5 mL 10% SnCl2 ID	SNCL - 5/16/24
Hg_W	ICCV Std vol, mL	2.5
Hg_W	CRA Std vol, mL	0.1
Hg_W	pH Paper:	30010709607
MET	Pipette #3	HG #12
MET	Pipette #1	ICP#12

HS24060694 E2400683 Perch Level IV Report

ALS WO# HS24060694

June 25, 2024 Service Request No:E2400683

Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099

Laboratory Results for: HS24060694

Dear Luis,

Enclosed are the results of the sample(s) submitted to our laboratory June 12, 2024
For your reference, these analyses have been assigned our service request number **E2400683.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current TNI standards, where applicable, and except as noted in the laboratory case narrative provided. All results are intended to be considered in their entirety and ALS Environmental is not responsible for use of less than the complete final report. Results apply only to the items submitted to the laboratory, as received for analysis. In accordance with the current TNI Standard, a statement on the estimated uncertainty of measurement of any quantitative analysis will be supplied upon request.

Please contact me if you have any questions. My extension is 2190. You may also contact me via email at hussam.kelany@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

H Kelany

Hussam Kelany
Project Manager

ADDRESS 10450 Stancliff Rd., Suite 210, Houston, TX 77099
PHONE +1 281 530 5656 | FAX +1 281 530 5887
ALS Group USA, Corp.
dba ALS Environmental

Certificate of Analysis

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

Client:	ALS Environmental - US	**Service Request No.:**	E2400683
Project:	HS24060694	**Date Received:**	06/12/24
Sample Matrix:	Water		

CASE NARRATIVE

All analyses were performed in adherence to the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Eight samples were received for analysis at ALS Environmental in Houston on 06/12/24.

The samples were received in good condition and are consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

Data Validation Notes and Discussion

Precision and Accuracy:

EQ2400332: Laboratory Control Spike/Duplicate Laboratory Control Spike (LCS/DLCS) samples were analyzed and reported in addition to a MS/MSD for this extraction batch.

The batch precision (MS/DMS) measurements were determined on an unrelated sample in the extraction batch. The MS/DMS results are not included in this report.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS group USA Corp dba ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

Client: ALS Environmental - US **Service Request:**E2400683
Project: HS24060694

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2400683-001	MW3_061124	6/11/2024	0705
E2400683-002	18CPTMW12SW_061124	6/11/2024	0750
E2400683-003	18CPTMW12DW_061124	6/11/2024	0835
E2400683-004	MW7_061124	6/11/2024	0915
E2400683-005	18CPTMW26SW_061124	6/11/2024	1000
E2400683-006	130_061124	6/11/2024	1040
E2400683-007	18CPTMW19_061124	6/11/2024	1125
E2400683-008	18CPTMW19SW_061124	6/11/2024	1210

Service Request Summary

Folder #: **E2400683**
Client Name: ALS Environmental - US
Project Name: HS24060694
Project Number:

Report To: Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099
USA
Phone Number:
Cell Number:
Fax Number:
E-mail: luis.aguilar@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: MONICA.SMITH
Date Received: 06/12/24
Internal Due Date: 6/24/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: BASIC_WQC_CASNo

8 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-WIC 1B
Pressure Gas:

Lab Samp No.	Client Samp No	Matrix	Collected	HOUSTON ClO4 DOD/6850
E2400683-001	MW3_061124	Water	06/11/24 0705	**IV**
E2400683-002	18CPTMW12SW_061124	Water	06/11/24 0750	**IV**
E2400683-003	18CPTMW12DW_061124	Water	06/11/24 0835	**IV**
E2400683-004	MW7_061124	Water	06/11/24 0915	**IV**
E2400683-005	18CPTMW26SW_061124	Water	06/11/24 1000	**IV**
E2400683-006	130_061124	Water	06/11/24 1040	**IV**
E2400683-007	18CPTMW19_061124	Water	06/11/24 1125	**IV**
E2400683-008	18CPTMW19SW_061124	Water	06/11/24 1210	**IV**

Service Request Summary

Folder #: **E2400683**
Client Name: ALS Environmental - US
Project Name: HS24060694
Project Number:

Report To: Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099
USA
Phone Number:
Cell Number:
Fax Number:
E-mail: luis.aguilar@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: MONICA.SMITH
Date Received: 06/12/24
Internal Due Date: 6/24/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: BASIC_WQC_CASNo

8 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-WIC 1B
Pressure Gas:

Data Qualifiers

Lab Standard

+	Possible Tedlar bag artifact.
A	TIC is a suspected aldol-condensation product
B	Analyte found in the associated method blank as well as in the sample.
BC	Reported results are not blank corrected.
BH	The back section of the tube yielded higher results than the front.
BT	Results indicated possible breakthrough; back section >=10% front section.
C	Result identification confirmed.
D	Compound identified in an analysis at a secondary dilution factor
D	Spike was diluted out
DE	Reported results are corrected for desorption efficiency.
E	Estimated value. Concentration above calibration range
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
H1	Sample analysis performed past holding time. See case narrative.
H2	Initial analysis within holding time. Reanalysis for the required dilution was past holding time.
H3	Sample was received and analyzed past holding time.
H4	Sample was extracted past required extraction holding time, but analyzed within analysis holding time. See case narrative.
I	(Auto) The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
I	Internal standard not within the specified limits. See case narrative.
I	The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
J	Estimated Value. Concentration found below MRL.
K	A deflection in the QC ion may indicate interference with the quantitation of this ion. The concentration of this analyte should be considered as an estimate.
K	Analyte was detected above the method reporting limit prior to normalization.
K	The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
L1	Laboratory control sample recovery outside the specified limits; results may be biased high.
L2	Laboratory control sample recovery outside the specified limits; results may be biased low.
L3	Laboratory control sample recovery outside the specified limits.
M	Matrix interference; results may be biased high.
M	The duplicate injection precision not met.

Data Qualifiers

Lab Standard

M1	Matrix interference due to coelution with a non-target compound; results may be biased high.
N	Presumptive evidence of a compound for TICs that have been identified based on a mass spectral library search.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
P	Indicates chlorodiphenyl ether interference present at the retention time of the target compound.
P	Pesticide/Aroclor target analyte > 40% difference for detected concentrations between GC columns
Q	Indicates as estimated value because the P and P + 2 theoretical abundance ratio does not meet method criteria.
R	Duplicate Precision not met.
R1	Duplicate precision not within the specified limits; however, the results are below the MRL and considered estimated.
S	Surrogate recovery not within specified limits.
S	The reported value was determined by the Method of Standard Additions (MSA).
T	Analyte is a tentatively identified compound, result is estimated.
U	Compound was analyzed for, but was not detected (ND).
V1	The continuing calibration verification standard was outside (biased high) the specified limits for this compound.
V2	The continuing calibration verification standard was outside (biased low) the specified limits for this compound.
W	Result quantified, but the corresponding peak was detected outside the generated retention time window.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
X	See case narrative.
Y	Recovery outside limits
Y	The chromatogram resembles a petroleum product but does not match the calibration standard.
Z	The chromatogram does not resemble a petroleum product.
i	The MRL/MDL has been elevated due to a matrix interference.

ALS Laboratory Group

Acronyms

Cal	Calibration
Conc	CONCentration
Dioxin(s)	Polychlorinated dibenzo-p-dioxin(s)
EDL	Estimated Detection Limit
EMPC	Estimated Maximum Possible Concentration
Flags	Data qualifiers
Furan(s)	Polychlorinated dibenzofuran(s)
g	Grams
ICAL	Initial CALibration
ID	IDentifier
Ions	Masses monitored for the analyte during data acquisition
L	Liter (s)
LCS	Laboratory Control Sample
DLCS	Duplicate Laboratory Control Sample
MB	Method Blank
MCL	Method Calibration Limit
MDL	Method Detection Limit
mL	Milliliters
MS	Matrix Spiked sample
DMS	Duplicate Matrix Spiked sample
NO	Number of peaks meeting all identification criteria
PCDD(s)	Polychlorinated dibenzo-p-dioxin(s)
PCDF(s)	Polychlorinated dibenzofuran(s)
ppb	Parts per billion
ppm	Parts per million
ppq	Parts per quadrillion
ppt	Parts per trillion
QA	Quality Assurance
QC	Quality Control
Ratio	Ratio of areas from monitored ions for an analyte
% Rec.	Percent recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
RT	Retention Time
SDG	Sample Delivery Group
S/N	Signal-to-noise ratio
TEF	Toxicity Equivalence Factor
TEQ	Toxicity Equivalence Quotient

10450 Stancliff Rd, Houston, TX 77099 | 281-530-5656 | www.alsglobal.com

ALS Environmental

State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
Arkansas Department of Environmental Quality	88-00356	3/28/2025
California State Environmental Laboratory Accreditation Program	2919-2024	4/30/2025
Department of Defense	L24-240	4/30/2026
Florida Department of Health	E87611-38	6/30/2024
Hawaii Department of Health	2024	4/30/2025
Illinois Environmental Protection Agency	2000322023-11	6/30/2024
Kansas Department of Health and Environment	E-10352 2023-2024	7/31/2024
Louisiana Department of Environmental Quality	03087-2023	6/30/2024
Louisiana Department of Health and Hospitals	LA028-2024	12/31/2024
Maryland Department of the Environment	343-2023	6/30/2024
Minnesota Department of Health	2645386	12/31/2024
Nevada Division of Environmental Protection	TX026932024-1	7/31/2024
New Hampshire Environmental Laboratory Accreditation Program	209424-A	4/24/2025
New Jersey Department of Environmental Protection	TX008-2024	6/30/2024
Oklahoma Department of Environmental Quality	2023-140	8/31/2024
Oregon Environmental Laboratory Accreditation Program	TX200002-2024	5/15/2025
Pennsylvania Department of Environmental Protection	68-03441-017	6/30/2024
Tennessee Department of Environment and Conservation	04016-2024	4/30/2025
Texas Commision on Environmental Quality	TX-C24-00130	4/30/2025
Utah Department of Health Environmental Laboratory Certification	TX026932023-14	7/31/2024
Washington Department of Ecology	C819-23	11/14/2024

Chain of Custody

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
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E2400683 5
ALS Laboratory Group
HS24060694

10450 Stancliff Rd, Ste 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
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Subcontract Chain of Custody

SAMPLING STATE: **Texas** **COC ID:** **25975**

SUBCONTRACT TO:

ALS Environmental
10450 Stancliff RoadSuite 210
Houston, TX 77084

Phone: +1 281 530 5656

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:	HS24060694
TSR:	Sonia West

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS24060694-01**	**MW-3_061124**	**Water**	**11 Jun 2024 07:05**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			26 Jun 2024
2.	**HS24060694-02**	**18CPTMW12SW_061124**	**Water**	**11 Jun 2024 07:50**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			26 Jun 2024
3.	**HS24060694-03**	**18CPTMW12DW_061124**	**Water**	**11 Jun 2024 08:35**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			26 Jun 2024
4.	**HS24060694-04**	**MW7_061124**	**Water**	**11 Jun 2024 09:15**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			26 Jun 2024
5.	**HS24060694-05**	**18CPTMW26SW_061124**	**Water**	**11 Jun 2024 10:00**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			26 Jun 2024
6.	**HS24060694-06**	**130_061124**	**Water**	**11 Jun 2024 10:40**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			26 Jun 2024
7.	**HS24060694-07**	**18CPTMW-19_061124**	**Water**	**11 Jun 2024 11:25**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			26 Jun 2024
8.	**HS24060694-08**	**18CPTMW-19SW_061124**	**Water**	**11 Jun 2024 12:10**

Subcontract Chain of Custody

SAMPLING STATE: **Texas** **COC ID:** **25975**

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			26 Jun 2024
9.	**HS24060694-09**	**Trip Blank**	**Water**	**11 Jun 2024 00:00**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			26 Jun 2024

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

QC Level: DOD IV (DoD Data Package)

Relinquished By: _____ Date/Time: _____

Received By: _____ Date/Time: _____

Cooler ID(s): _____ Temperature(s): _____

E2400683 5
ALS Laboratory Group
HS24060694

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

Sample Receipt Checklist

Work Order ID: HS24060694 **Date/Time received:** 12 Jun 2024 09:55

Client name: Bhate Environmental Associates, Inc. **Received by:** Si Ma

Completed/By: 12 Jun 2024 15:49 (Date/Time) Belinda Gomez (eSignature) **Reviewed/By:** (Date/Time) (eSignature)

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	1 Page(s)
Chain of custody signed when relinquished and received?	☑ Yes	☐ No	COC ID(s):
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): 2.0uc/2.1c ir31

Cooler Information: 1 Cooler(s), 50333

Date/Time sample(s) sent to storage: 6/12/24 1550

Water - VOA vials have zero headspace?	☑ Yes	☐ No	☐ No VOA vials submitted
Water - pH acceptable upon receipt?	☑ Yes	☐ No	☐ Not Applicable
pH adjusted?	☐ Yes	☑ No	☐ Not Applicable

pH adjusted by:

Login notes:

Client contacted: **Date contacted:** **Person contacted:**

Contacted by: **Regarding:**

Comments:

Corrective action:

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www.alsglobal.com

SAMPLE ACCEPTANCE POLICY

This policy outlines the criteria samples must meet to be accepted by ALS Environmental – Houston HRMS.

Cooler Custody Seals (desirable, mandatory if specified in SAP):

- ✓ Intact on outside of cooler, signed and dated

Chain-of-Custody (COC) documentation (mandatory):

The following is required on each COC:

- ✓ Sample ID, the location, date and time of collection, collector's name, preservation type, sample type, and any other special remarks concerning the sampleThe COC must be completed in ink.
- ✓ Signature and date of relinquishing party.

In the absence of a COC at sample receipt, the COC will be requested from the client.

Sample Integrity (mandatory):

Samples are inspected upon arrival to ensure that sample integrity was not compromised during transfer to the laboratory.

- ✓ Sample containers must arrive in good condition (not broken or leaking).
- ✓ Samples must be labeled appropriately, including Sample IDs, and requested test using durable labels and indelible ink.
- ✓ The correct type of sample bottle must be used for the method requested.
- ✓ An appropriate sample volume, or weight, must be received.
- ✓ Sample IDs and number of containers must reconcile with the COC.
- ✓ Samples must be received within the method defined holding time.

Temperature Requirement (varies by sample matrix):

- ✓ Aqueous and Non-aqueous samples must be shipped and stored cold, at 0 to 6ºC.
- ✓ Tissue samples must be shipped and stored frozen, at -20 to -10ºC.
- ✓ Air samples are shipped and stored cold, at 0 to 6ºC
- ✓ The sample temperature must be recorded on the COC

All cooler inspections are documented on the Cooler Receipt Form (CRF). A separate CRF is completed for each service request. Any samples not meeting the above criteria are noted on the CRF and the Project Manager notified. The Project Manager must resolve any sample integrity issues with the client prior to proceeding with the analysis. Such resolutions are documented in writing and filed with the project folder. Data associated with samples received outside of this acceptance policy will be qualified on the case narrative of the final report

Preparation Information Benchsheets

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

Preparation Information Benchsheet

Prep Run#: 440303 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/JOSEL.JUAREZ **Prep Method:** Method **Prep Date/Time:** 6/20/24 07:40

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2400683-001	MW3_061124	.01	6850/ClO4 DOD			Water	10mL	
2	E2400683-002	18CPTMW12SW_061124	.01	6850/ClO4 DOD			Water	10mL	
3	E2400683-003	18CPTMW12DW_061124	.01	6850/ClO4 DOD			Water	10mL	
4	E2400683-004	MW7_061124	.01	6850/ClO4 DOD			Water	10mL	
5	E2400683-005	18CPTMW26SW_061124	.01	6850/ClO4 DOD			Water	10mL	
6	E2400683-006	130_061124	.01	6850/ClO4 DOD			Water	10mL	
7	E2400683-007	18CPTMW19_061124	.01	6850/ClO4 DOD			Water	10mL	
8	E2400683-008	18CPTMW19SW_061124	.01	6850/ClO4 DOD			Water	10mL	
9	E2400687-001	1824DPTMW05_061024	.01	6850/ClO4 DOD			Ground Water	10mL	
10	E2400687-002	1824DPTMW05_061024_a	.01	6850/ClO4 DOD			Ground Water	10mL	
11	E2400687-003	129_061024	.01	6850/ClO4 DOD			Ground Water	10mL	
12	E2400687-004	120_061024	.01	6850/ClO4 DOD			Ground Water	10mL	
13	E2400687-005	MW14_061024	.01	6850/ClO4 DOD			Ground Water	10mL	
14	E2400687-006	MW23_061024	.01	6850/ClO4 DOD			Ground Water	10mL	
15	E2400687-007	CO9_061024	.01	6850/ClO4 DOD			Ground Water	10mL	
16	E2400687-008	CO1_061024	.01	6850/ClO4 DOD			Ground Water	10mL	
17	E2400687-009	126_061024	.01	6850/ClO4 DOD			Ground Water	10mL	
18	EQ2400332-01	MB		6850/ClO4 DOD			Liquid	10mL	
19	EQ2400332-02	LCS		6850/ClO4 DOD			Liquid	10mL	
20	EQ2400332-03	DLCS		6850/ClO4 DOD			Liquid	10mL	
21	EQ2400332-04	ICS		6850/ClO4 DOD			Liquid	10mL	
22	EQ2400332-05	CO1_061024 MS	.01	6850/ClO4 DOD			Liquid	10mL	
23	EQ2400332-06	CO1_061024 DMS	.01	6850/ClO4 DOD			Liquid	10mL	

Spiking Solutions

Name: Perchlorate Intermediate Stock 2 Inventory ID 233555 Logbook Ref: Perchlorate INT. Stock2 Expires On: 08/05/2024

EQ2400332-02 10.00µL EQ2400332-03 10.00µL EQ2400332-04 10.00µL

Name: Perchlorate Intermediate Stock 3 Inventory ID 233558 Logbook Ref: Perchlorate INT Stock3 Expires On: 08/05/2024

EQ2400332-05 100.00µL EQ2400332-06 100.00µL

Name: Perchlorate Internal Standard 1ug/mL Inventory ID 235428 Logbook Ref: Perchlorate IS cg5/24/24 Expires On: 11/24/2024

E2400683-001 100.00µL E2400683-002 100.00µL E2400683-003 100.00µL E2400683-004 100.00µL E2400683-005 100.00µL E2400683-006 100.00µL

Preparation Information Benchsheet

Prep Run#: 440303 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/JOSEL.JUAREZ **Prep Method:** Method **Prep Date/Time:** 6/20/24 07:40

E2400683-007	100.00µL	E2400683-008	100.00µL	E2400687-001	100.00µL	E2400687-002	100.00µL	E2400687-003	100.00µL	E2400687-004	100.00µL
E2400687-005	100.00µL	E2400687-006	100.00µL	E2400687-007	100.00µL	E2400687-008	100.00µL	E2400687-009	100.00µL	EQ2400332-01	100.00µL
EQ2400332-02	100.00µL	EQ2400332-03	100.00µL	EQ2400332-04	100.00µL	EQ2400332-05	100.00µL	EQ2400332-06	100.00µL		

Preparation Materials

6850 0.45um syringe filters	6850 0.45 SYRING FILTER (229979)	6850 Luer-Lok Syringes	Luer Lok Syringes (231696)

Preparation Steps

Step: Preparation
Started: 6/20/24 07:40
Finished: 6/20/24 08:24
By: JOSEL.JUAREZ
Comments

Comments: _____

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: _____ Date: _____ Extracts Examined

Received By: _____ Date: _____ Yes No

Analytical Results

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10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400683
Project:	HS24060694	**Date Collected:**	6/11/24 0705
Sample Matrix:	Water	**Date Received:**	6/12/24
Sample Name:	MW3_061124	**Units:**	µg/L
Lab Code:	E2400683-001	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**2060**		50.0	25.0	12.5	500	6/20/24	6/20/24 12:42	440303	844983	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400683
Project:	HS24060694	**Date Collected:**	6/11/24 0750
Sample Matrix:	Water	**Date Received:**	6/12/24
Sample Name:	18CPTMW12SW_061124	**Units:**	µg/L
Lab Code:	E2400683-002	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**29.1**		0.100	0.0500	0.0250	1	6/20/24	6/20/24 11:02	440303	844983	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400683
Project:	HS24060694	**Date Collected:**	6/11/24 0835
Sample Matrix:	Water	**Date Received:**	6/12/24
Sample Name:	18CPTMW12DW_061124	**Units:**	µg/L
Lab Code:	E2400683-003	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	ND	U	0.100	0.0500	0.0250	1	6/20/24	6/20/24 13:43	440303	844983	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400683
Project:	HS24060694	**Date Collected:**	6/11/24 0915
Sample Matrix:	Water	**Date Received:**	6/12/24
Sample Name:	MW7_061124	**Units:**	µg/L
Lab Code:	E2400683-004	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**14300**		100	50.0	25.0	1000	6/20/24	6/20/24 13:48	440303	844983	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400683
Project:	HS24060694	**Date Collected:**	6/11/24 1000
Sample Matrix:	Water	**Date Received:**	6/12/24
Sample Name:	18CPTMW26SW_061124	**Units:**	µg/L
Lab Code:	E2400683-005	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	ND	U	0.100	0.0500	0.0250	1	6/20/24	6/20/24 11:19	440303	844983	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400683
Project:	HS24060694	**Date Collected:**	6/11/24 1040
Sample Matrix:	Water	**Date Received:**	6/12/24
Sample Name:	130_061124	**Units:**	µg/L
Lab Code:	E2400683-006	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.471**		0.100	0.0500	0.0250	1	6/20/24	6/20/24 11:24	440303	844983	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400683
Project:	HS24060694	**Date Collected:**	6/11/24 1125
Sample Matrix:	Water	**Date Received:**	6/12/24
Sample Name:	18CPTMW19_061124	**Units:**	µg/L
Lab Code:	E2400683-007	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**2.69**		0.100	0.0500	0.0250	1	6/20/24	6/20/24 11:30	440303	844983	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400683
Project:	HS24060694	**Date Collected:**	6/11/24 1210
Sample Matrix:	Water	**Date Received:**	6/12/24
Sample Name:	18CPTMW19SW_061124	**Units:**	µg/L
Lab Code:	E2400683-008	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	ND	U	0.100	0.0500	0.0250	1	6/20/24	6/20/24 11:35	440303	844983	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400683
Project:	HS24060694	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2400332-01	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	ND	U	0.100	0.0500	0.0250	1	6/20/24	6/20/24 09:39	440303	844983	

Accuracy & Precision

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ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2400683
Project:	HS24060694	**Date Analyzed:**	06/20/24
Sample Matrix:	Water	**Date Extracted:**	06/20/24

Duplicate Lab Control Sample Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analysis Method:	6850	**Units:**	ug/L
Prep Method:	Method	**Basis:**	NA
		Analysis Lot:	844983

	Lab Control Sample EQ2400332-02			Duplicate Lab Control Sample EQ2400332-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.118	0.100	118	0.115	0.100	115	84-119	2	15

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400683
Project:	HS24060694	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400332-02	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.118**		0.100	0.0500	0.0250	1	6/20/24	6/20/24 09:45	440303	844983	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400683
Project:	HS24060694	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400332-03	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.115**		0.100	0.0500	0.0250	1	6/20/24	6/20/24 09:50	440303	844983	

Initial Calibration

ALS Environmental - Houston HRMS
10450 Stancliff Rd., Suite 210, Houston, TX 77099
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

843806

Injection Log

LCMS01 -Shimadzu 8050

1st Review: CG
2nd Review:

ICAL Date: 6/11/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400009

Mobile Phases : A:20mM ammonium acetate in water **3211810-9 B:**Acetonitrile 3211810-8
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
1	20240611-001	IB	Perchlorate6850c.lcm	1x		6/11/2024 15:40
2	20240611-002	Perchlorate ICAL 1	Perchlorate6850c.lcm	1x		6/11/2024 15:46
3	20240611-003	Perchlorate ICAL 2	Perchlorate6850c.lcm	1x		6/11/2024 15:52
4	20240611-004	Perchlorate ICAL 3	Perchlorate6850c.lcm	1x		6/11/2024 15:57
5	20240611-005	Perchlorate ICAL 4	Perchlorate6850c.lcm	1x		6/11/2024 16:03
6	20240611-006	Perchlorate ICAL 5	Perchlorate6850c.lcm	1x		6/11/2024 16:08
7	20240611-007	Perchlorate ICAL 6	Perchlorate6850c.lcm	1x		6/11/2024 16:14
8	20240611-008	Perchlorate ICAL 7	Perchlorate6850c.lcm	1x		6/11/2024 16:19
9	20240611-009	Perchlorate ICAL 8	Perchlorate6850c.lcm	1x		6/11/2024 16:25
10	20240611-010	Perchlorate ICAL 9	Perchlorate6850c.lcm	1x		6/11/2024 16:30
11	20240611-011	Perchlorate ICAL 10	Perchlorate6850c.lcm	1x		6/11/2024 16:36
12	20240611-012	PerchlorateICV	Perchlorate6850c.lcm	1x		6/11/2024 16:42
13	20240611-013	IB	Perchlorate6850c.lcm	1x		6/11/2024 16:47
14	20240611-014	LODV	Perchlorate6850c.lcm	1x		6/11/2024 16:53
15	20240611-015	ICS	Perchlorate6850c.lcm	1x		6/11/2024 16:58
16	20240611-016	CCV	Perchlorate6850c.lcm	1x		6/11/2024 17:04
17	20240611-017	IB	Perchlorate6850c.lcm	1x		6/11/2024 17:09
18	20240611-018	EQ2400303-001	Perchlorate6850c.lcm	1x		6/11/2024 17:15
19	20240611-019	EQ2400303-002	Perchlorate6850c.lcm	1x		6/11/2024 17:20
20	20240611-020	EQ2400303-003	Perchlorate6850c.lcm	1x		6/11/2024 17:26
21	20240611-021	EQ2400303-004	Perchlorate6850c.lcm	1x		6/11/2024 17:31
22	20240611-022	EQ2400303-005	Perchlorate6850c.lcm	1x		6/11/2024 17:37
23	20240611-023	E2400629-001	Perchlorate6850c.lcm	1x		6/11/2024 17:42
24	20240611-024	E2400647-001	Perchlorate6850c.lcm	1x		6/11/2024 17:48
25	20240611-025	E2400647-002	Perchlorate6850c.lcm	1x		6/11/2024 17:54
26	20240611-026	E2400647-003	Perchlorate6850c.lcm	1x		6/11/2024 17:59
27	20240611-027	E2400647-004	Perchlorate6850c.lcm	1x		6/11/2024 18:05
28	20240611-028	CCV	Perchlorate6850c.lcm	1x		6/11/2024 18:10
29	20240611-029	IB	Perchlorate6850c.lcm	1x		6/11/2024 18:16
30	20240611-030	E2400647-005	Perchlorate6850c.lcm	1x		6/11/2024 18:21
31	20240611-031	E2400647-006	Perchlorate6850c.lcm	1x		6/11/2024 18:27
32	20240611-032	E2400650-001	Perchlorate6850c.lcm	1x	DNU needs DL	6/11/2024 18:32
33	20240611-033	E2400650-002	Perchlorate6850c.lcm	1x	DNU needs DL	6/11/2024 18:38
34	20240611-034	E2400650-003	Perchlorate6850c.lcm	1x	DNU needs DL	6/11/2024 18:43
35	20240611-035	E2400650-004	Perchlorate6850c.lcm	1x	DNU RI possible C/O	6/11/2024 18:49
36	20240611-036	E2400650-005	Perchlorate6850c.lcm	1x	DNU RI possible C/O	6/11/2024 18:54
37	20240611-037	E2400650-006	Perchlorate6850c.lcm	1x		6/11/2024 19:00
38	20240611-038	CCV	Perchlorate6850c.lcm	1x		6/11/2024 19:06
39	20240611-039	IB	Perchlorate6850c.lcm	1x		6/11/2024 19:11
40			Perchlorate6850c.lcm	1x		

843806

Injection Log

LCMS01 -Shimadzu 8050

1st Review: CG
2nd Review:

ICAL Date: 6/11/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400009

Mobile Phases : A:20mM ammonium acetate in water **3211810-9 B:**Acetonitrile 3211810-8
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
41			Perchlorate6850c.lcm	1x		
42			Perchlorate6850c.lcm	1x		
43			Perchlorate6850c.lcm	1x		
44			Perchlorate6850c.lcm	1x		
45			Perchlorate6850c.lcm	1x		
46			Perchlorate6850c.lcm	1x		
47			Perchlorate6850c.lcm	1x		

Initial Calibration - Detailed Report

Calibration ID: EC2400009 **Instrument ID:** E-LCMS-01
Column Name: 1

#	Lab Code	Sample Name	File Location	Aquisition Date
01	EC2400009-01	Perchlorate ICAL 1	20240611-002	06/11/2024 15:46
02	EC2400009-02	Perchlorate ICAL 2	20240611-003	06/11/2024 15:52
03	EC2400009-03	Perchlorate ICAL 3	20240611-004	06/11/2024 15:57
04	EC2400009-04	Perchlorate ICAL 4	20240611-005	06/11/2024 16:03
05	EC2400009-05	Perchlorate ICAL 5	20240611-006	06/11/2024 16:08
06	EC2400009-06	Perchlorate ICAL 6	20240611-007	06/11/2024 16:14
07	EC2400009-07	Perchlorate ICAL 7	20240611-008	06/11/2024 16:19
08	EC2400009-08	Perchlorate ICAL 8	20240611-009	06/11/2024 16:25
09	EC2400009-09	Perchlorate ICAL 9	20240611-010	06/11/2024 16:30
10	EC2400009-10	Perchlorate ICAL 10	20240611-011	06/11/2024 16:36

Analyte **Curve Fit** **Weighting**

Perchlorate **Average RF** **RSD = 5.222** **Average RF = 0.146**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.1000	0.1359	02	0.5000	0.1389	03	0.7000	0.1344	04	1.0000	0.1446
05	2.0000	0.1447	06	5.0000	0.1567	07	10.0000	0.1526	08	20.0000	0.1528
09	30.0000	0.1488	10	50.0000	0.1506						

Analyte

Perchlorate RSE = 5.22

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.1000	0.0931	-6.9	02	0.5000	0.476	-4.9	03	0.7000	0.644	-7.9
04	1.0000	0.990	-1.0	05	2.0000	1.98	-0.9	06	5.0000	5.37	7.3
07	10.0000	10.5	4.5	08	20.0000	20.9	4.7	09	30.0000	30.6	1.9
10	50.0000	51.6	3.1								

Initial Calibration Verification Summary Report

Calibration ID:	EC2400009	**Instrument ID:**	E-LCMS-01
Datafile ID:	20240611-012	**Column Name:**	1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
Perchlorate	EC2400009-11	T	Average RF	10	10.282	ng/mL	2.8	<= 15

Insight Report

Printed at 6/12/2024 8:45:04 AM

Method File: I:\LCMS01\DATA\20240611\202405611_ICAL.lcm
Project File: I:\LCMS01\DATA\20240611\20240611_ICAL.damlp

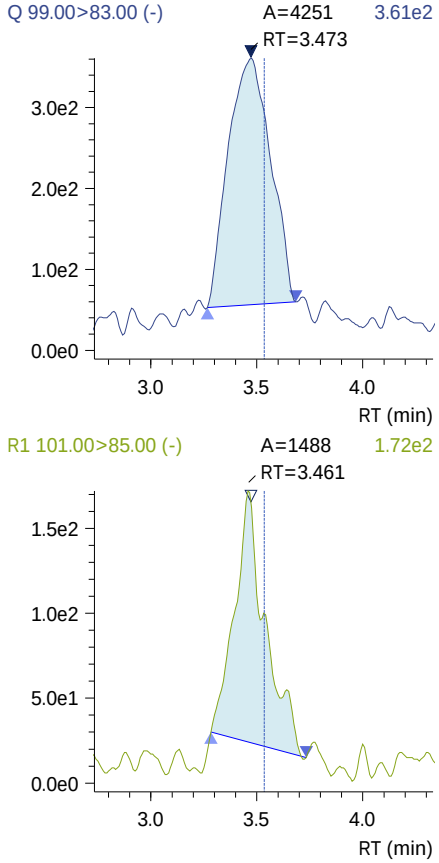
Perchlorate ICAL 1

Sample ID: Perchlorate ICAL 1
Date Acquired: 6/11/2024 3:46:30 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-002.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.473	4251	312768	0.0931	ng/mL	101.00 >85.00	35.01	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.453	312768	312768	1.0000	ng/mL	----	----	

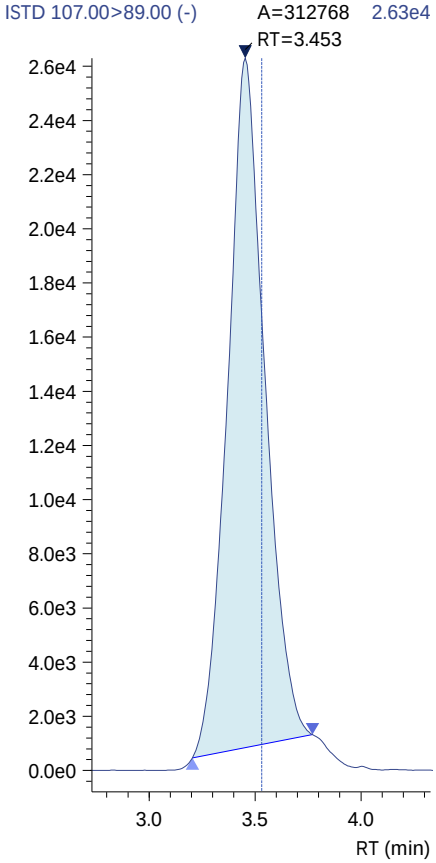
Perchlorate

Conc 0.0931
R#1 35.01 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

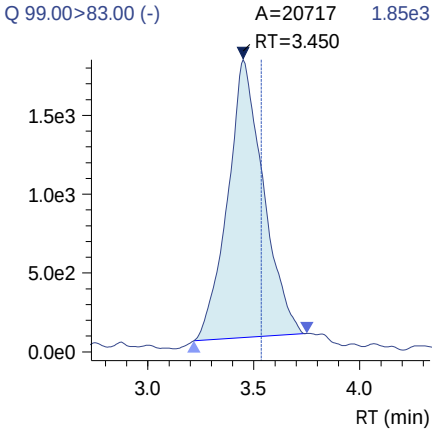
Perchlorate ICAL 2

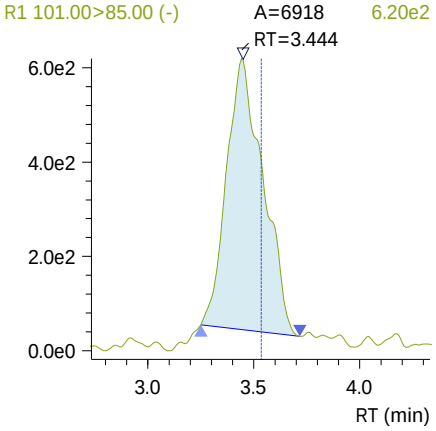
Sample ID: Perchlorate ICAL 2
Date Acquired: 6/11/2024 3:52:02 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-003.lcd
Vial: 2 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.450	20717	298266	0.4757	ng/mL	101.00 >85.00	33.39	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.455	298266	298266	1.0000	ng/mL	----	----	

Perchlorate

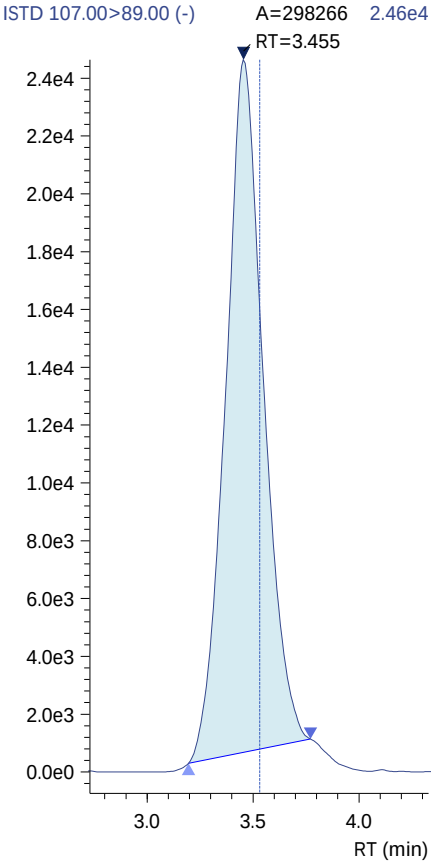
Conc 0.4757
R#1 33.39 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

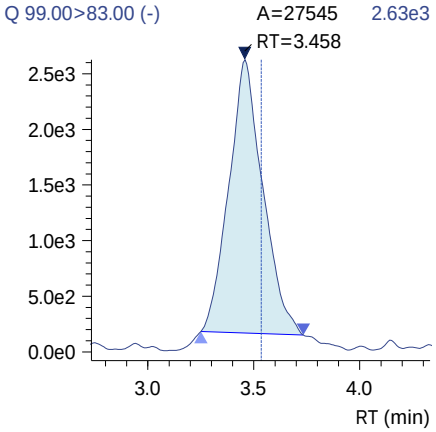
Perchlorate ICAL 3

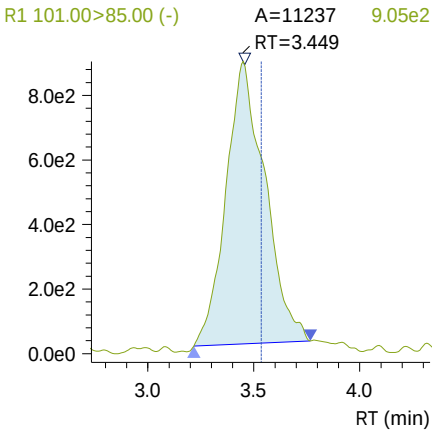
Sample ID: Perchlorate ICAL 3
Date Acquired: 6/11/2024 3:57:35 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-004.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.458	27545	292777	0.6444	ng/mL	101.00 >85.00	40.79	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.459	292777	292777	1.0000	ng/mL	----	----	

Perchlorate

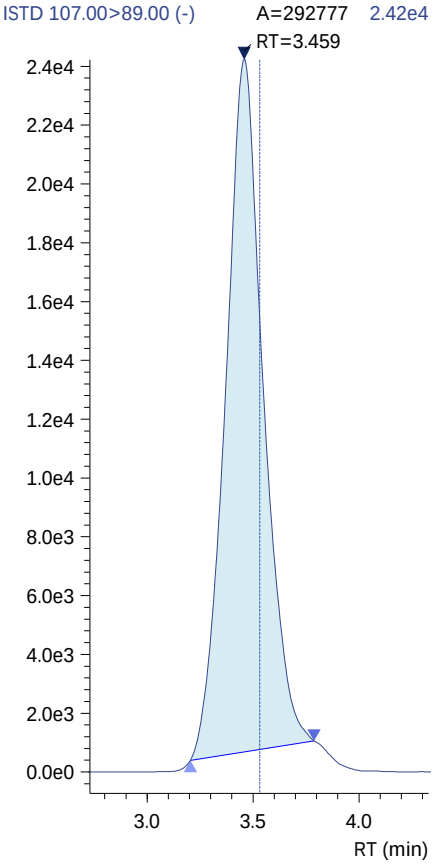
Conc 0.6444
R#1 40.79 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

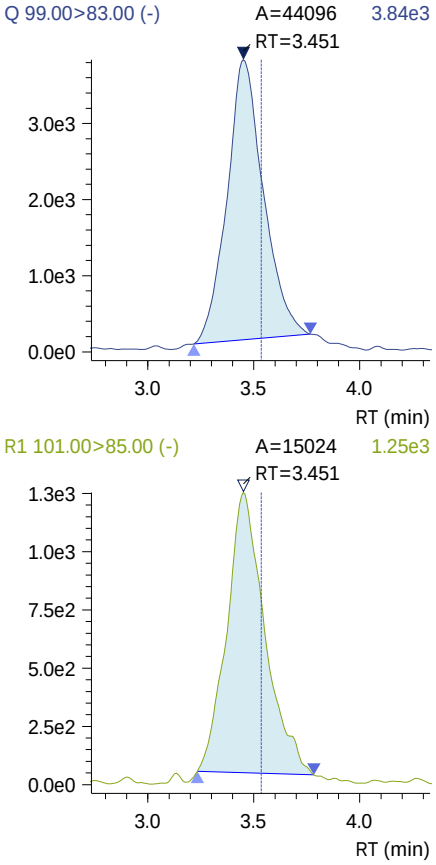
Perchlorate ICAL 4

Sample ID: Perchlorate ICAL 4
Date Acquired: 6/11/2024 4:03:10 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-005.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.451	44096	304940	0.9904	ng/mL	101.00 >85.00	34.07	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.454	304940	304940	1.0000	ng/mL	----	----	

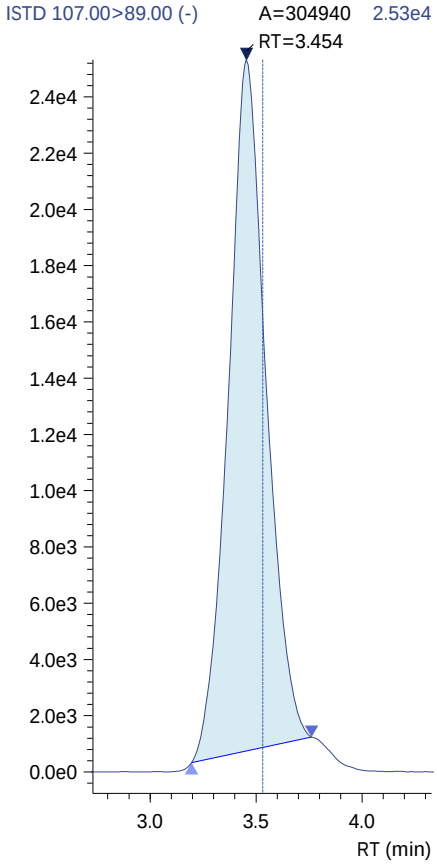
Perchlorate

Conc 0.9904
R#1 34.07 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

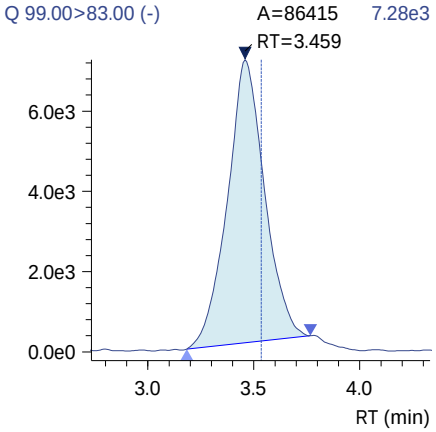
Perchlorate ICAL 5

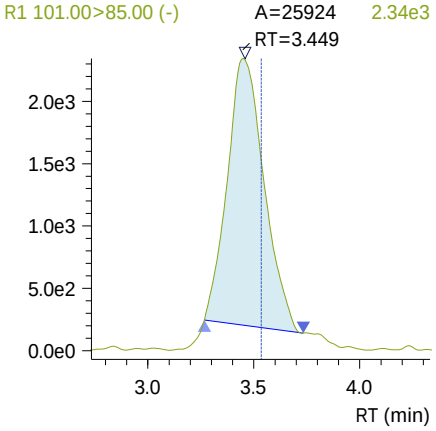
Sample ID: Perchlorate ICAL 5
Date Acquired: 6/11/2024 4:08:45 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-006.lcd
Vial: 5 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.459	86415	298543	1.9825	ng/mL	101.00 >85.00	30.00	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.454	298543	298543	1.0000	ng/mL	----	----	

Perchlorate

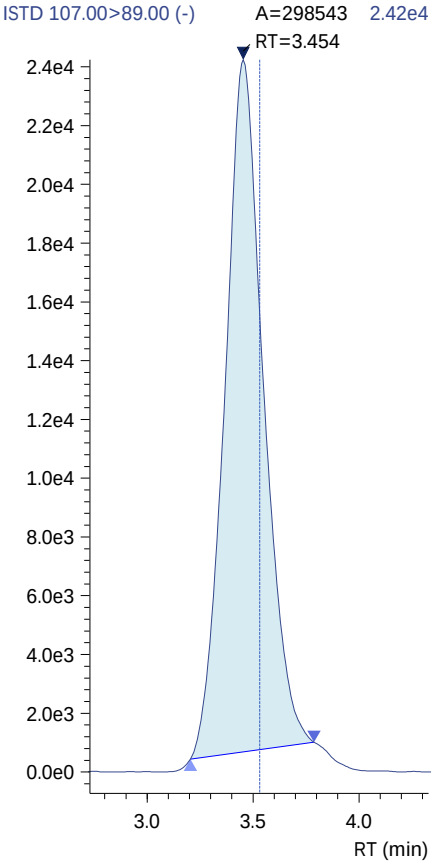
Conc 1.9825
R#1 30.00 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

Perchlorate ICAL 6

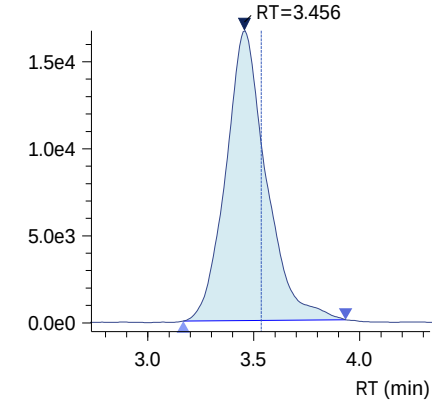
Sample ID: Perchlorate ICAL 6
Date Acquired: 6/11/2024 4:14:20 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-007.lcd
Vial: 6 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.456	221568	282809	5.3659	ng/mL	101.00 >85.00	32.17	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.453	282809	282809	1.0000	ng/mL	----	----	

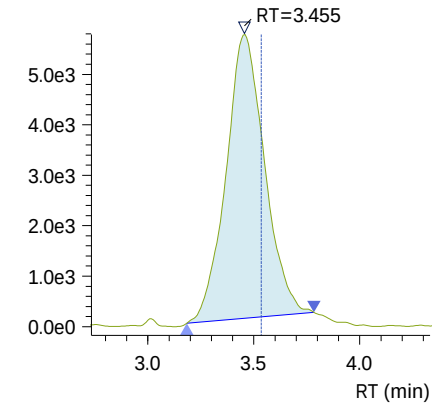
Perchlorate

Conc 5.3659
R#1 32.17 (34.10)

Q 99.00>83.00 (-) A=221568 1.68e4
RT=3.456



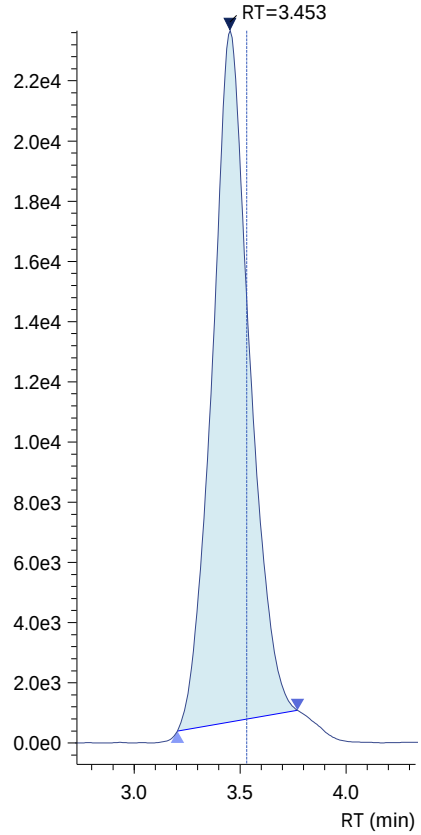
R1 101.00>85.00 (-) A=71270 5.79e3
RT=3.455



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=282809 2.37e4
RT=3.453



Insight Report

Printed at 6/12/2024 8:45:04 AM

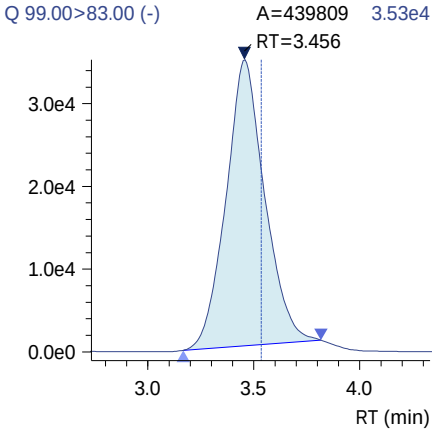
Perchlorate ICAL 7

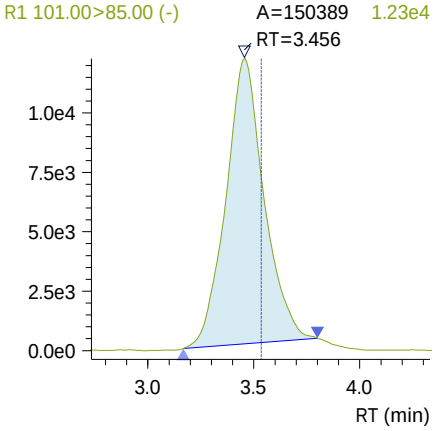
Sample ID: Perchlorate ICAL 7
Date Acquired: 6/11/2024 4:19:54 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-008.lcd
Vial: 7 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.456	439809	288244	10.4505	ng/mL	101.00 >85.00	34.19	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.455	288244	288244	1.0000	ng/mL	----	----	

Perchlorate

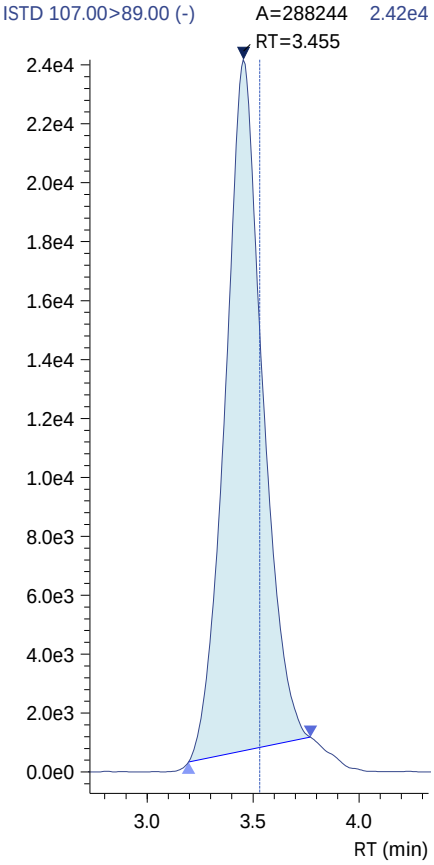
Conc 10.4505
R#1 34.19 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

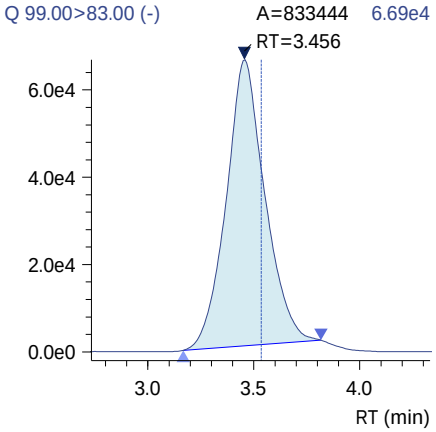
Perchlorate ICAL 8

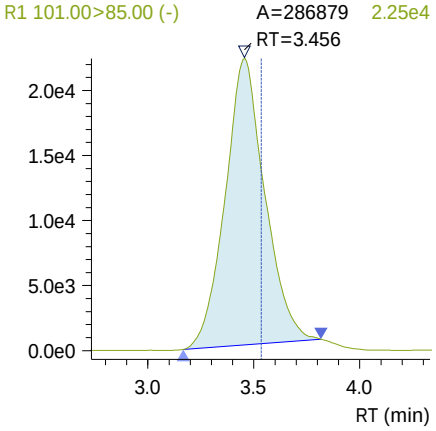
Sample ID: Perchlorate ICAL 8
Date Acquired: 6/11/2024 4:25:27 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-009.lcd
Vial: 8 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.456	833444	272651	20.9364	ng/mL	101.00 >85.00	34.42	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.455	272651	272651	1.0000	ng/mL	----	----	

Perchlorate

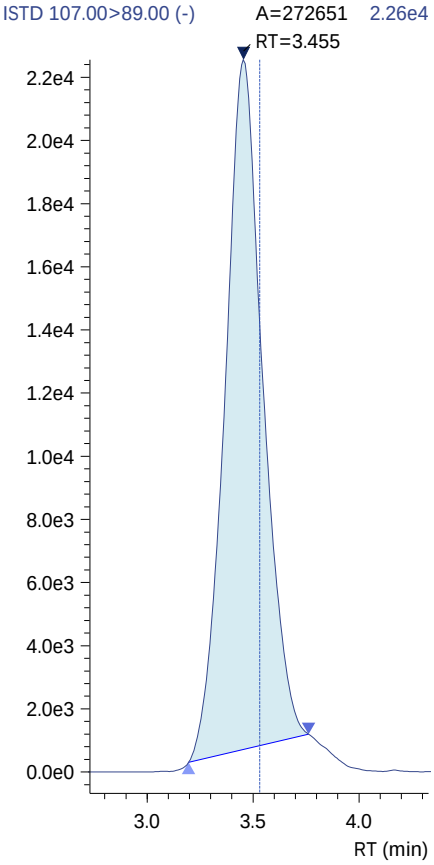
Conc 20.9364
R#1 34.42 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

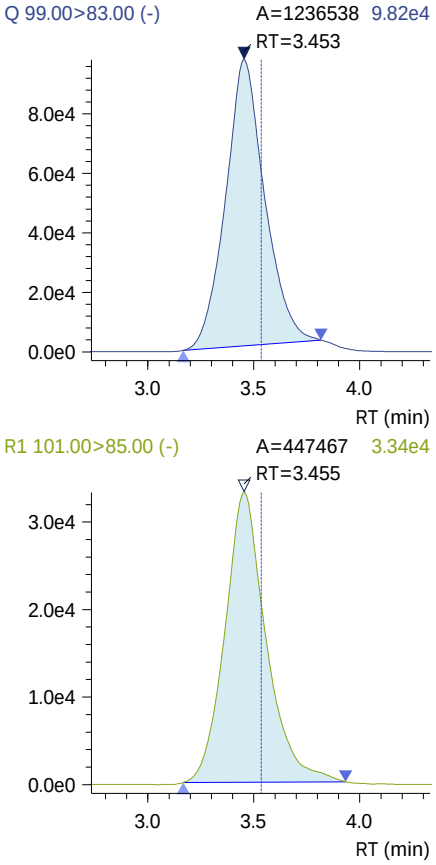
Perchlorate ICAL 9

Sample ID: Perchlorate ICAL 9
Date Acquired: 6/11/2024 4:30:58 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-010.lcd
Vial: 9 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.453	12365 38	276997	30.5 749	ng/mL	101.00 >85.00	36.19	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.452	276997	276997	1.0000	ng/mL	----	----	

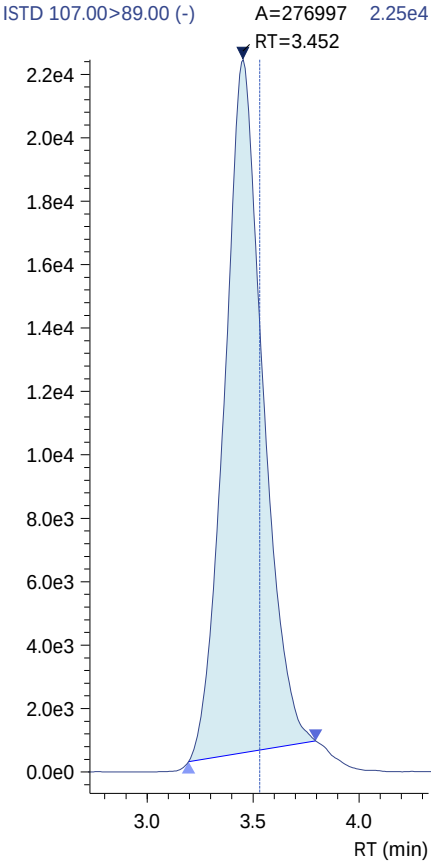
Perchlorate

Conc 30.5749
R#1 36.19 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

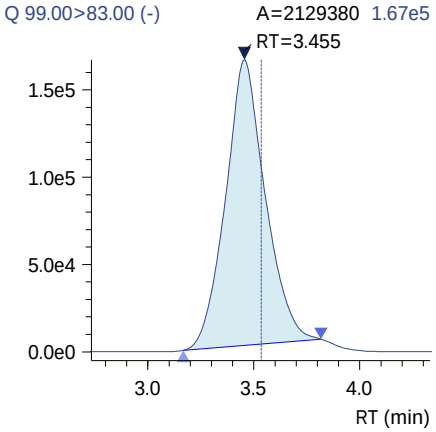
Perchlorate ICAL 10

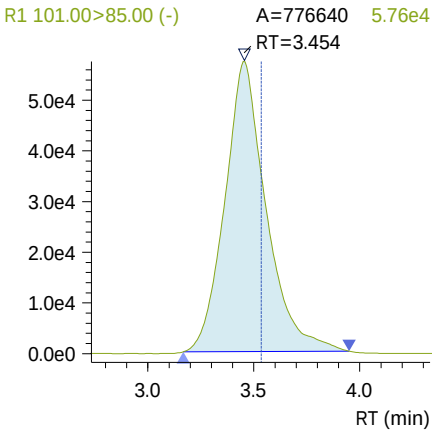
Sample ID: Perchlorate ICAL 10
Date Acquired: 6/11/2024 4:36:29 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-011.lcd
Vial: 10 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.455	21293 80	282834	51.5 649	ng/mL	101.00 >85.00	36.47	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.453	282834	282834	1.0000	ng/mL	----	----	

Perchlorate

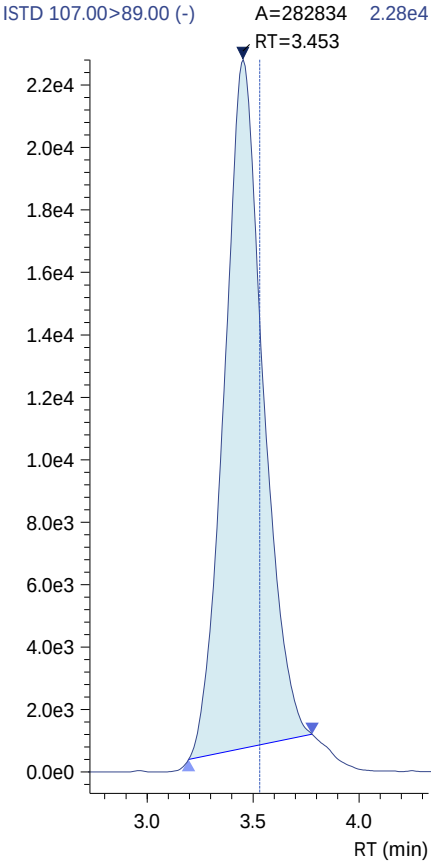
Conc 51.5649
R#1 36.47 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

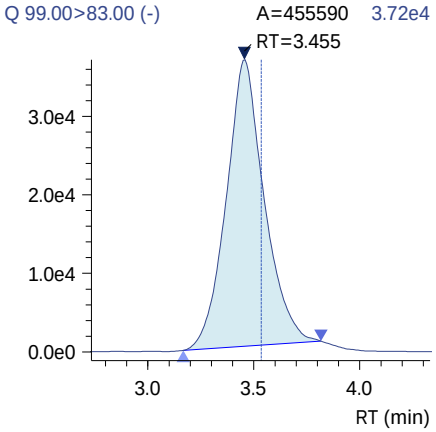
PerchlorateICV

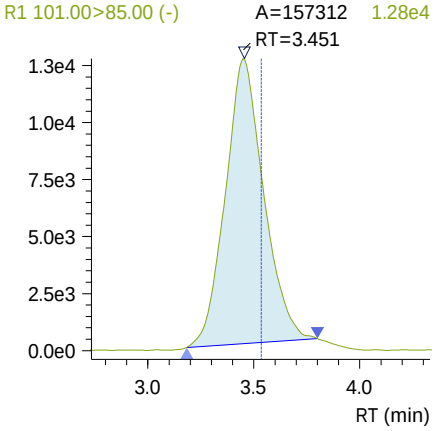
Sample ID: PerchlorateICV
Date Acquired: 6/11/2024 4:42:02 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-012.lcd
Vial: 11 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.455	455590	303470	10.2 823	ng/mL	101.00 >85.00	34.53	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.454	303470	303470	1.0000	ng/mL	----	----	

Perchlorate

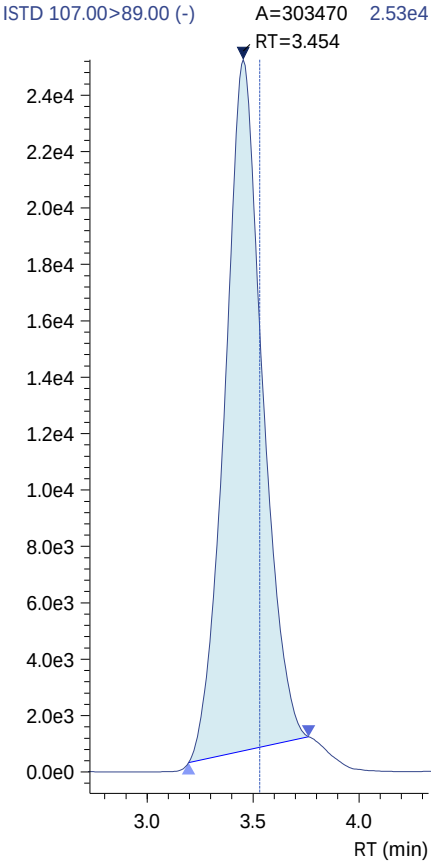
Conc 10.2823
R#1 34.53 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Chromatograms and Selected Ion Monitoring

ALS Environmental - Houston HRMS
10450 Stancliff Rd., Suite 320, Houston TX 77099
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

843893

Injection Log

LCMS01 -Shimadzu 8050

1st Review: CG
2nd Review:

ICAL Date: 6/11/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400009

Mobile Phases : A:20mM ammonium acetate in water **3211810-9 B:**Acetonitrile 3211810-8
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
1	20240620-001	IB	Perchlorate6850c.lcm	1x		6/20/2024 8:09
2	20240620-002	IB	Perchlorate6850c.lcm	1x		6/20/2024 8:15
3	20240620-003	IB	Perchlorate6850c.lcm	1x		6/20/2024 8:20
4	20240620-004	LODV	Perchlorate6850c.lcm	1x		6/20/2024 8:26
5	20240620-005	ICS	Perchlorate6850c.lcm	1x		6/20/2024 8:31
6	20240620-006	CCV	Perchlorate6850c.lcm	1x		6/20/2024 8:37
7	20240620-007	IB	Perchlorate6850c.lcm	1x		6/20/2024 9:28
8	20240620-008	LOD-TEST	Perchlorate6850c.lcm	1x		6/20/2024 9:34
9	20240620-009	EQ2400332-01MB	Perchlorate6850c.lcm	1x		6/20/2024 9:39
10	20240620-010	EQ2400332-02LCS	Perchlorate6850c.lcm	1x		6/20/2024 9:45
11	20240620-011	EQ2400332-03DLCS	Perchlorate6850c.lcm	1x		6/20/2024 9:50
12	20240620-012	EQ2400328-04ICS	Perchlorate6850c.lcm	1x		6/20/2024 9:56
13	20240620-013	E2400682-002X20	Perchlorate6850c.lcm	20x		6/20/2024 10:01
14	20240620-014	E2400682-004X100	Perchlorate6850c.lcm	100x		6/20/2024 10:07
15	20240620-015	E2400682-005X100	Perchlorate6850c.lcm	100x		6/20/2024 10:12
16	20240620-016	E2400682-009X100	Perchlorate6850c.lcm	100x		6/20/2024 10:18
17	20240620-017	E2400684-007X10	Perchlorate6850c.lcm	10x		6/20/2024 10:23
18	20240620-018	E2400684-008X1000	Perchlorate6850c.lcm	1000x		6/20/2024 10:29
19	20240620-019	CCV	Perchlorate6850c.lcm	1x		6/20/2024 10:34
20	20240620-020	IB	Perchlorate6850c.lcm	1x		6/20/2024 10:40
21	20240620-021	EQ2400328-05MS	Perchlorate6850c.lcm	1x	DNU	6/20/2024 10:46
22	20240620-022	EQ2400328-05DMS	Perchlorate6850c.lcm	1x	DNU	6/20/2024 10:51
23	20240620-023	E2400683-001	Perchlorate6850c.lcm	1x	DNU	6/20/2024 10:57
24	20240620-024	E2400683-002	Perchlorate6850c.lcm	1x		6/20/2024 11:02
25	20240620-025	E2400683-003	Perchlorate6850c.lcm	1x	DNU	6/20/2024 11:08
26	20240620-026	E2400683-004	Perchlorate6850c.lcm	1x	DNU	6/20/2024 11:13
27	20240620-027	E2400683-005	Perchlorate6850c.lcm	1x		6/20/2024 11:19
28	20240620-028	E2400683-006	Perchlorate6850c.lcm	1x		6/20/2024 11:24
29	20240620-029	E2400683-007	Perchlorate6850c.lcm	1x		6/20/2024 11:30
30	20240620-030	E2400683-008	Perchlorate6850c.lcm	1x		6/20/2024 11:35
31	20240620-031	CCV	Perchlorate6850c.lcm	1x		6/20/2024 11:41
32	20240620-032	IB	Perchlorate6850c.lcm	1x		6/20/2024 11:47
33	20240620-033	E2400687-001	Perchlorate6850c.lcm	1x	DNU	6/20/2024 11:52
34	20240620-034	E2400687-002	Perchlorate6850c.lcm	1x	DNU	6/20/2024 11:58
35	20240620-035	E2400687-003	Perchlorate6850c.lcm	1x	DNU	6/20/2024 12:03
36	20240620-036	E2400687-004	Perchlorate6850c.lcm	1x	DNU	6/20/2024 12:09
37	20240620-037	E2400687-005	Perchlorate6850c.lcm	1x	DNU	6/20/2024 12:14
38	20240620-038	E2400687-006	Perchlorate6850c.lcm	1x	DNU	6/20/2024 12:20
39	20240620-039	E2400687-007	Perchlorate6850c.lcm	1x	DNU	6/20/2024 12:25
40	20240620-040	E2400687-008	Perchlorate6850c.lcm	1x	DNU	6/20/2024 12:31
41	20240620-041	E2400687-009	Perchlorate6850c.lcm	1x	DNU	6/20/2024 12:36

843893

Injection Log

LCMS01 -Shimadzu 8050

1st Review: CG
2nd Review:

ICAL Date: 6/11/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400009

Mobile Phases : A:20mM ammonium acetate in water **3211810-9 B:**Acetonitrile 3211810-8
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
42	20240620-042	E2400683-001x500	Perchlorate6850c.lcm	500x		6/20/2024 12:42
43	20240620-043	CCV	Perchlorate6850c.lcm	1x		6/20/2024 12:48
44	20240620-044	IB	Perchlorate6850c.lcm	1x		6/20/2024 12:53
45	20240620-045	E2400683-004x10000	Perchlorate6850c.lcm	10000x	DNU	6/20/2024 12:59
46	20240620-046	E2400687-001x10000	Perchlorate6850c.lcm	10000x		6/20/2024 13:04
47	20240620-047	E2400687-002x10000	Perchlorate6850c.lcm	10000x		6/20/2024 13:10
48	20240620-048	E2400687-003x1000	Perchlorate6850c.lcm	1000x		6/20/2024 13:15
49	20240620-049	E2400687-004x1000	Perchlorate6850c.lcm	1000x		6/20/2024 13:21
50	20240620-050	E2400687-005x100000	Perchlorate6850c.lcm	100000x		6/20/2024 13:26
51	20240620-051	E2400687-006x1000	Perchlorate6850c.lcm	1000x	DNU	6/20/2024 13:37
52	20240620-052	E2400683-003	Perchlorate6850c.lcm	1x		6/20/2024 13:43
53	20240620-053	E2400683-004x1000	Perchlorate6850c.lcm	1000x		6/20/2024 13:48
54	20240620-054	CCV	Perchlorate6850c.lcm	1x		6/20/2024 13:54
55	20240620-055	IB	Perchlorate6850c.lcm	1x		6/20/2024 13:59
56	20240620-056	E2400687-007	Perchlorate6850c.lcm	1x	DNU	6/20/2024 14:05
57	20240620-057	E2400687-008	Perchlorate6850c.lcm	1x	DNU	6/20/2024 14:10
58	20240620-058	E2400687-009	Perchlorate6850c.lcm	1x	DNU	6/20/2024 14:16
59	20240620-059	EQ2400328-05MS	Perchlorate6850c.lcm	1x	DNU	6/20/2024 14:21
60	20240620-060	EQ2400328-05DMS	Perchlorate6850c.lcm	1x	DNU	6/20/2024 14:27
61	20240620-061	E2400687-006x10000	Perchlorate6850c.lcm	10000x		6/20/2024 14:33
62	20240620-062	CCV	Perchlorate6850c.lcm	1x		6/20/2024 14:38
63	20240620-063	IB	Perchlorate6850c.lcm	1x		6/20/2024 14:44

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24060694

Service Request: E2400683
Date Analyzed: 6/20/24 08:37

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240620\20240620-006
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400337-07
Analysis Lot: 844983
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400337-07	207,633	3.45
Method Blank	EQ2400332-01	216,278	3.45
Lab Control Sample	EQ2400332-02	207,782	3.45
Duplicate Lab Control Sample	EQ2400332-03	203,512	3.45

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24060694

Service Request: E2400683
Date Analyzed: 6/20/24 10:34

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240620\20240620-019
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400337-08
Analysis Lot: 844983
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400337-08	245,753	3.45
18CPTMW12SW_061124	E2400683-002	192,387	3.45
18CPTMW26SW_061124	E2400683-005	160,081	3.45
130_061124	E2400683-006	229,945	3.45
18CPTMW19_061124	E2400683-007	221,442	3.45
18CPTMW19SW_061124	E2400683-008	229,911	3.45

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24060694

Service Request: E2400683
Date Analyzed: 6/20/24 11:41

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240620\20240620-031
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400337-03
Analysis Lot: 844983
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400337-03	260,308	3.45
MW3_061124	E2400683-001	249,351	3.44

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24060694

Service Request: E2400683
Date Analyzed: 6/20/24 12:48

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240620\20240620-043
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400337-04
Analysis Lot: 844983
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400337-04	254,706	3.44
18CPTMW12DW_061124	E2400683-003	257,308	3.46
MW7_061124	E2400683-004	233,945	3.45

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24060694

Service Request: E2400683
Date Analyzed: 6/20/24 13:54

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240620\20240620-054
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400337-05
Analysis Lot: 844983
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400337-05	261,796	3.45

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24060694

Service Request: E2400683
Date Analyzed: 6/20/24 14:38

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240620\20240620-062
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400337-06
Analysis Lot: 844983
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400337-06	247,639	3.44

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24060694

Service Request: E2400683
Date Analyzed: 6/20/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240620\20240620-031

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 844983
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.2	0.1460	0.1488	1.9	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24060694

Service Request: E2400683
Date Analyzed: 6/20/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240620\20240620-043

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 844983
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	9.77	0.1460	0.1427	-2.3	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24060694

Service Request: E2400683
Date Analyzed: 6/20/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240620\20240620-054

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 844983
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.2	0.1460	0.1485	1.7	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24060694

Service Request: E2400683
Date Analyzed: 6/20/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240620\20240620-062

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 844983
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.1	0.1460	0.1478	1.2	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24060694

Service Request: E2400683
Date Analyzed: 6/20/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240620\20240620-006

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 844983
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	9.50	0.1460	0.1387	-5.0	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24060694

Service Request: E2400683
Date Analyzed: 6/20/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240620\20240620-019

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 844983
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.0	0.1460	0.1465	0.3	NA	± 15 %	Average RF

Insight Report

Printed at 6/25/2024 12:23:35 PM

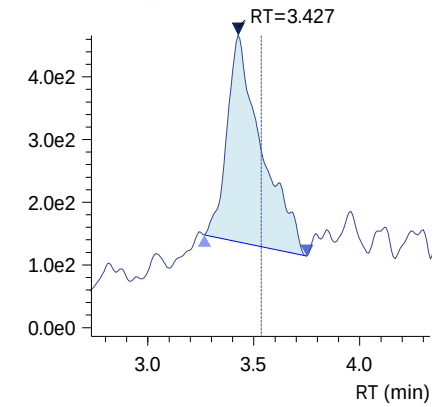
EQ2400328-04ICS

Sample ID: EQ2400328-04ICS
Date Acquired: 6/20/2024 9:56:12 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-012.lcd
Vial: 5 | Inj. Volume: 10.0000uL | Tray: 4

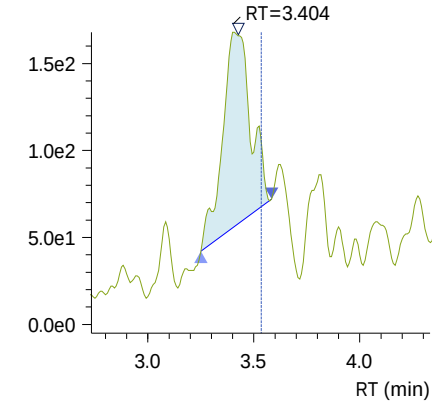
Perchlorate

Conc 0.1619
R#1 27.27 (34.10)

Q 99.00>83.00 (-) A=3755 4.66e2



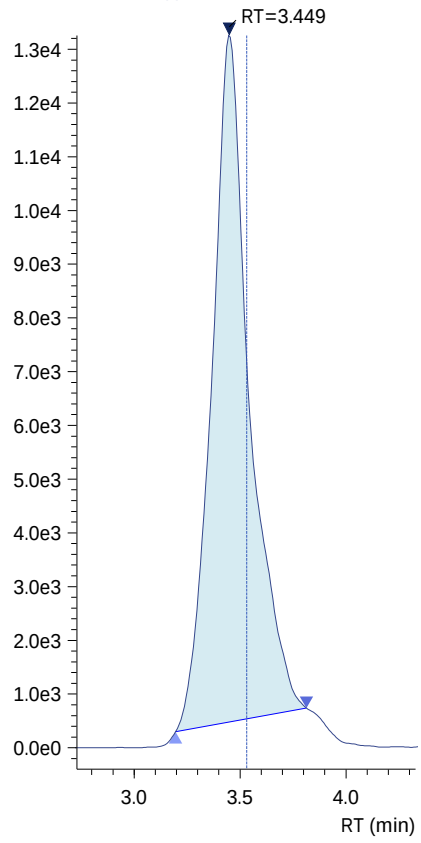
R1 101.00>85.00 (-) A=1024 1.68e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=158849 1.33e4



Insight Report

Printed at 6/25/2024 12:18:43 PM

Method File: I:\LCMS01\DATA\20240620\20240620.lcm
Project File: I:\LCMS01\DATA\20240620\20240620.damlp

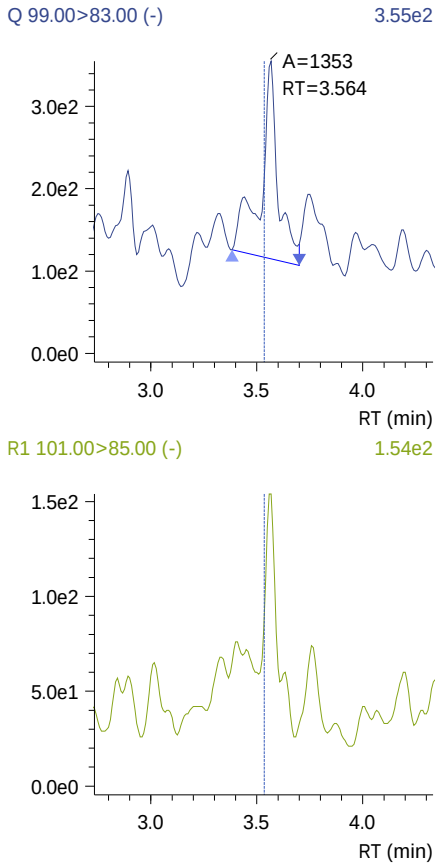
IB

Sample ID: IB
Date Acquired: 6/20/2024 8:20:49 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-003.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	NI	----	----	180477	----	ng/mL	101.00 >85.00	0.00	23.86 -43.30
Sodium Perchlorate-18O4_IS	Auto	3.453	180477	180477	1.0000	ng/mL	----	----	

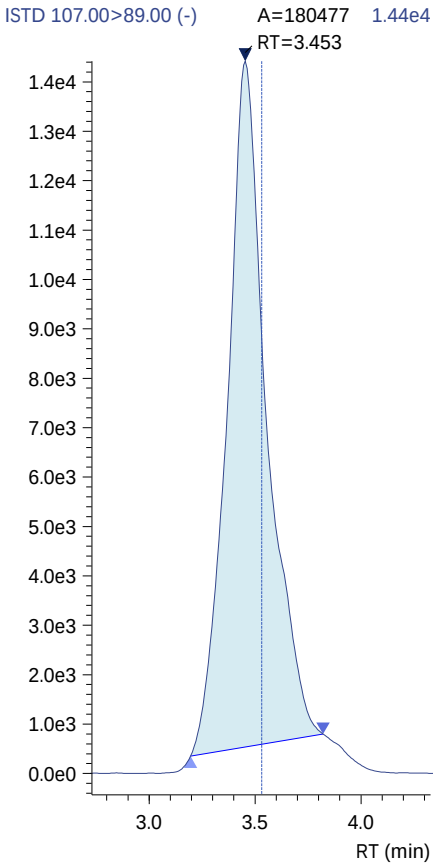
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/25/2024 12:18:43 PM

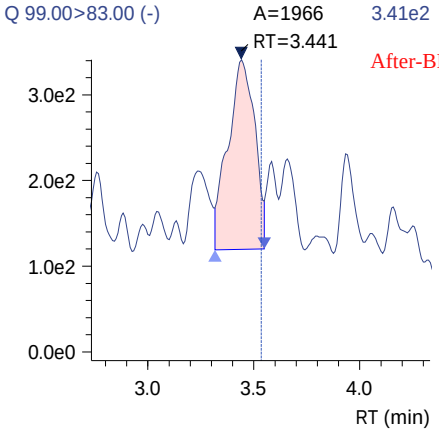
LODV

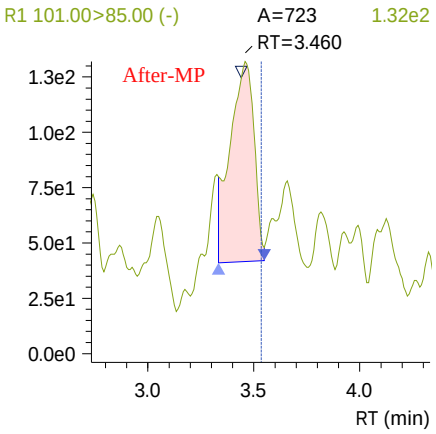
Sample ID: LODV
Date Acquired: 6/20/2024 8:26:23 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-004.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.441	1966	230168	0.0585	ng/mL	101.00 >85.00	36.78	23.86 -43.30
Sodium Perchlorate-18O4_IS	M	3.454	230168	230168	1.0000	ng/mL	----	----	

Perchlorate

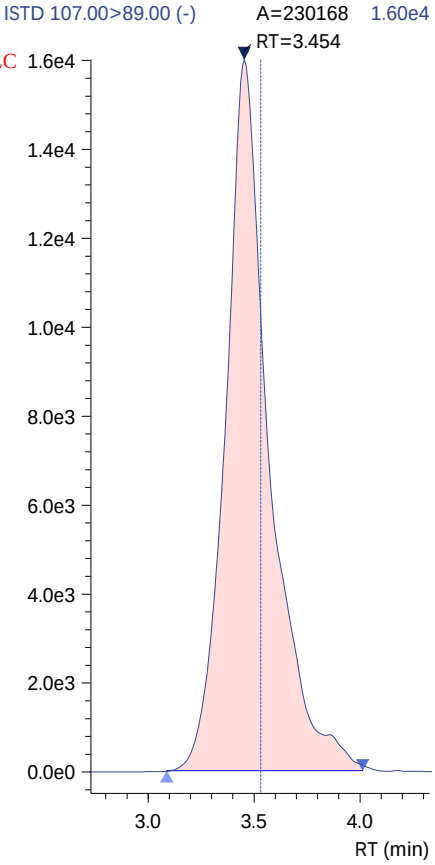
Conc 0.0585
R#1 36.78 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/25/2024 12:23:35 PM

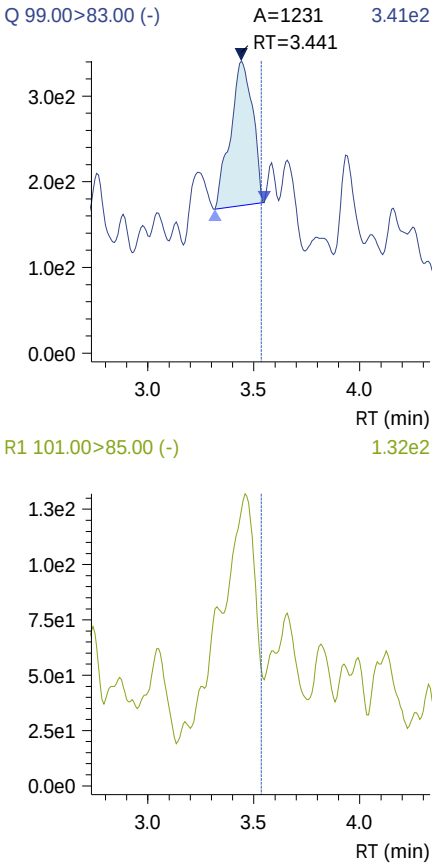
Method File: I:\LCMS01\DATA\20240620\20240620.lcm
Project File: I:\LCMS01\DATA\20240620\20240620.damlp

LODV

Sample ID: LODV
Date Acquired: 6/20/2024 8:26:23 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-004.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

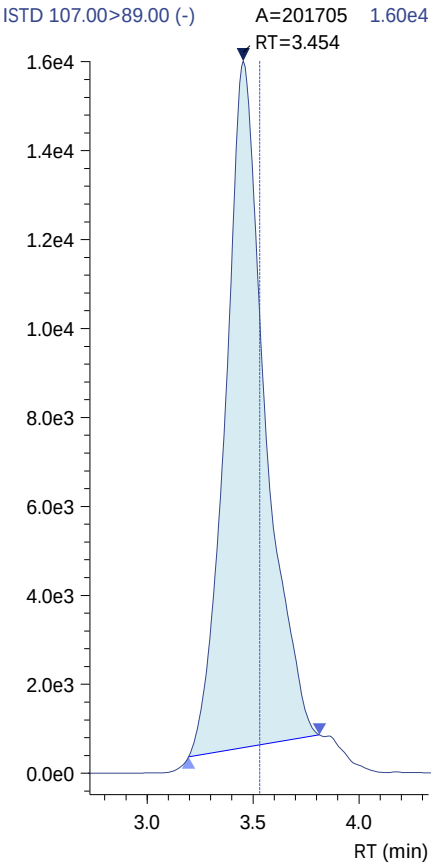
Perchlorate

Conc 0.0418
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/25/2024 12:18:43 PM

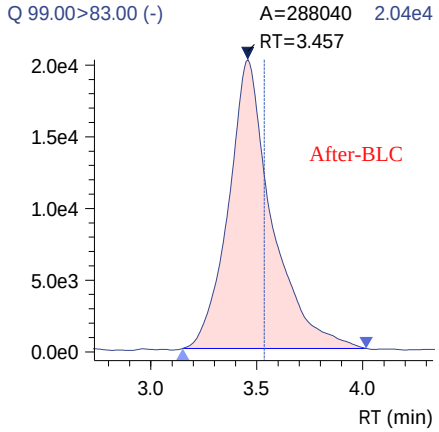
CCV

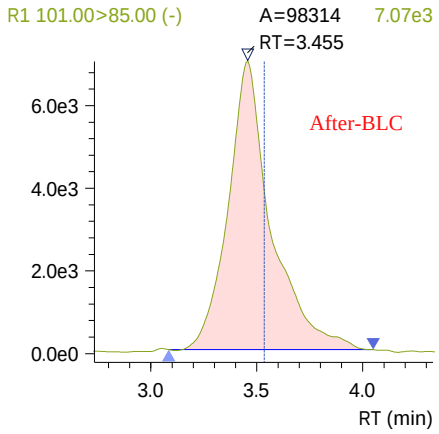
Sample ID: CCV
Date Acquired: 6/20/2024 8:37:30 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-006.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	MI	3.457	288040	207633	9.5014	ng/mL	101.00 >85.00	34.13	23.86 -43.30
Sodium Perchlorate-18O4_IS	M	3.454	207633	207633	1.0000	ng/mL	----	----	

Perchlorate

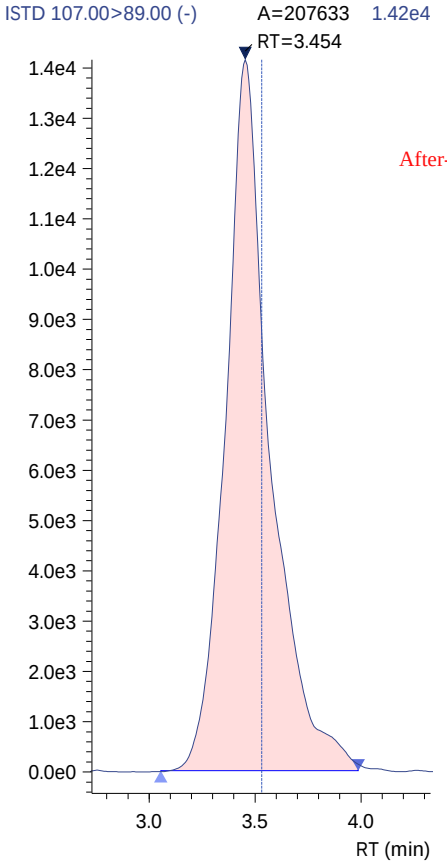
Conc 9.5014
R#1 34.13 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/25/2024 12:23:35 PM

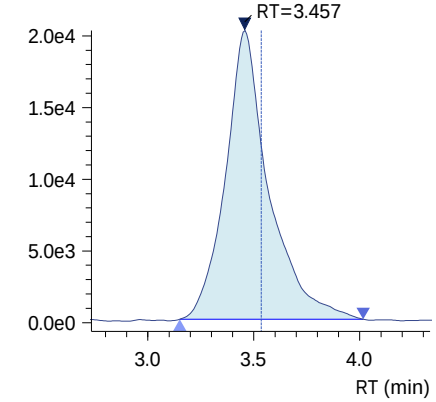
CCV

Sample ID: CCV
Date Acquired: 6/20/2024 8:37:30 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-006.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

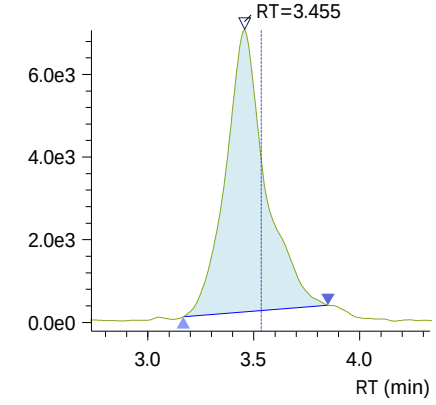
Perchlorate

Conc 10.8534
R#1 31.08 (34.10)

Q 99.00>83.00 (-) A=288040 2.04e4



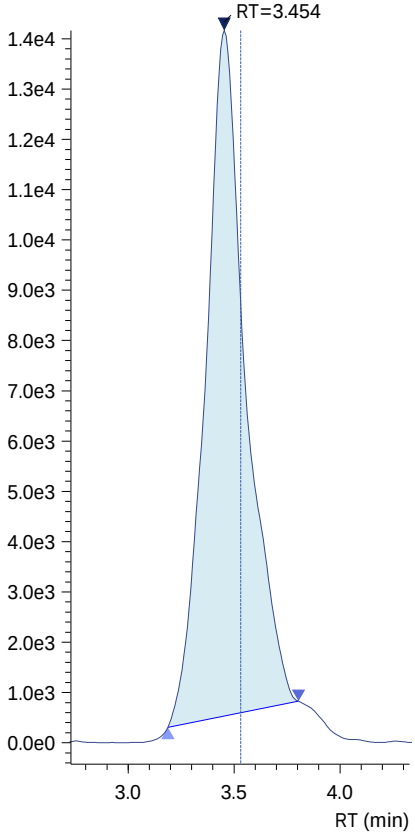
R1 101.00>85.00 (-) A=89524 7.07e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=181768 1.42e4



Insight Report

Printed at 6/25/2024 12:18:43 PM

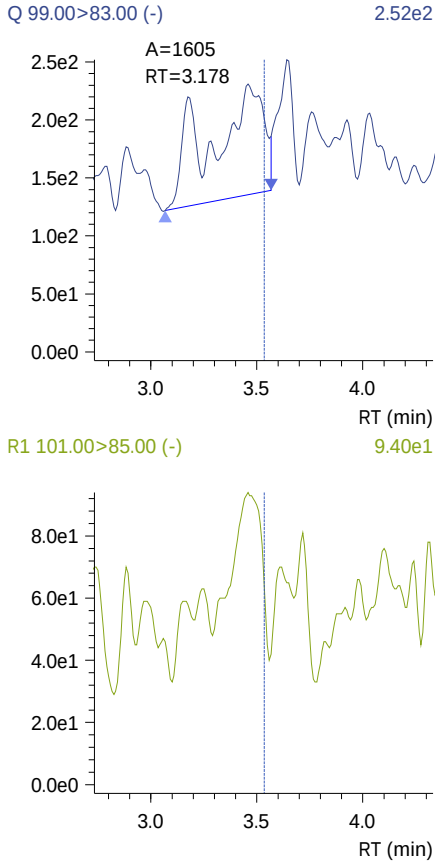
IB

Sample ID: IB
Date Acquired: 6/20/2024 9:28:27 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-007.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	NI	----	----	234710	----	ng/mL	101.00 >85.00	0.00	23.86 -43.30
Sodium Perchlorate-18O4_IS	Auto	3.453	234710	234710	1.0000	ng/mL	----	----	

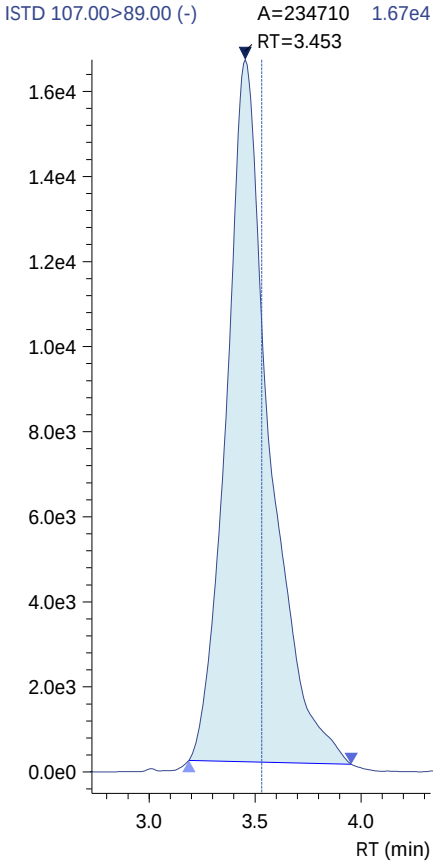
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/25/2024 12:18:43 PM

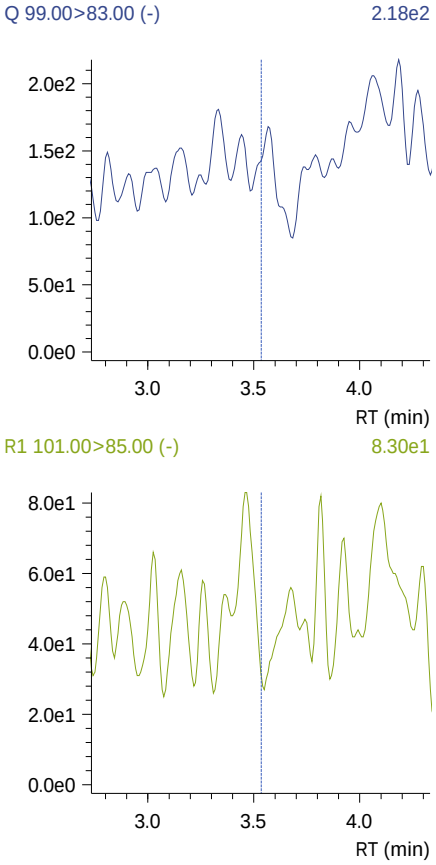
EQ2400332-01MB

Sample ID: EQ2400332-01MB
Date Acquired: 6/20/2024 9:39:33 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-009.lcd
Vial: 2 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	216278	----	ng/mL	101.00 >85.00	0.00	23.86 -43.30
Sodium Perchlorate-18O4_IS	M	3.453	216278	216278	1.0000	ng/mL	----	----	

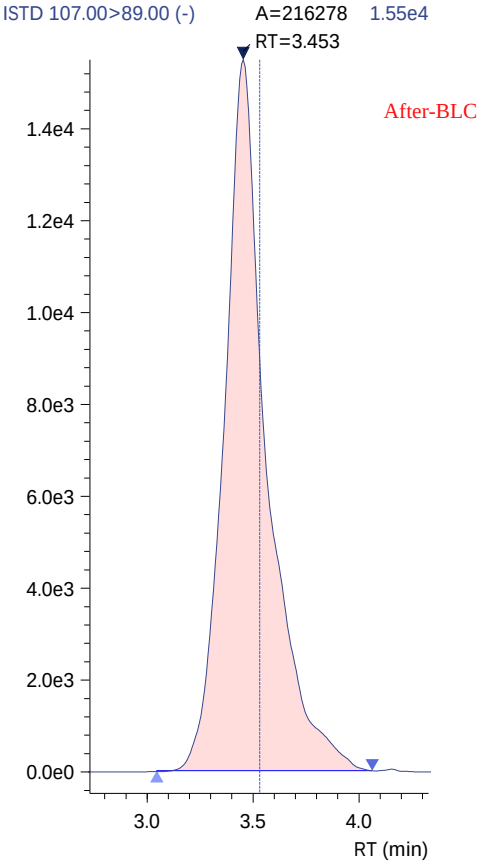
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/25/2024 12:23:35 PM

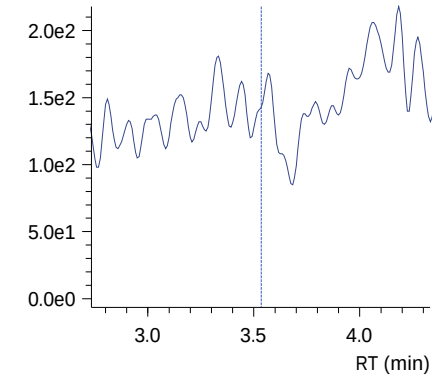
EQ2400332-01MB

Sample ID: EQ2400332-01MB
Date Acquired: 6/20/2024 9:39:33 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-009.lcd
Vial: 2 | Inj. Volume: 10.0000uL | Tray: 4

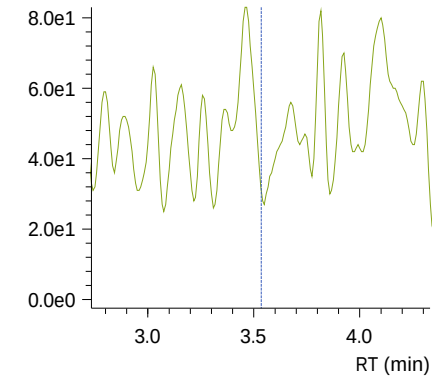
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 2.18e2



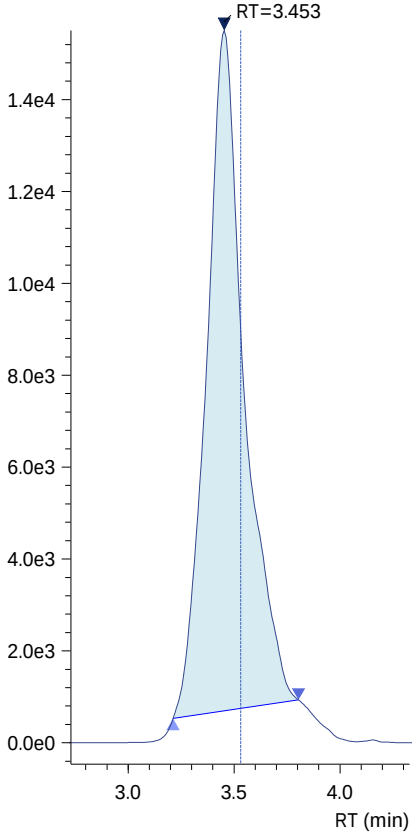
R1 101.00>85.00 (-) 8.30e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=185082 1.55e4
RT=3.453



Insight Report

Printed at 6/25/2024 12:18:43 PM

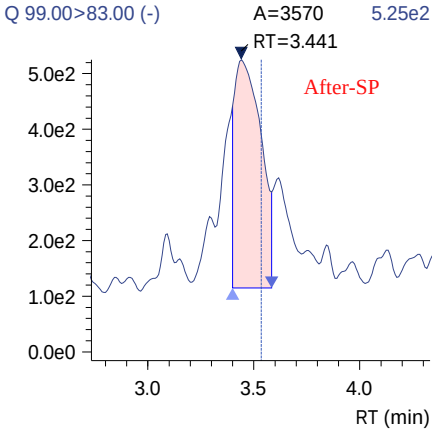
EQ2400332-02LCS

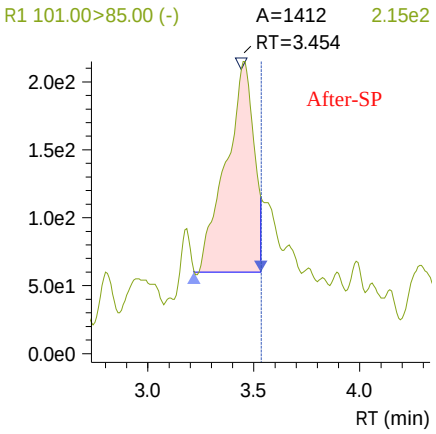
Sample ID: EQ2400332-02LCS
Date Acquired: 6/20/2024 9:45:07 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-010.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.441	3570	207782	0.1177	ng/mL	101.00 >85.00	39.56	23.86 -43.30
Sodium Perchlorate-18O4_IS	M	3.451	2077 82	207782	1.0000	ng/mL	----	----	

Perchlorate

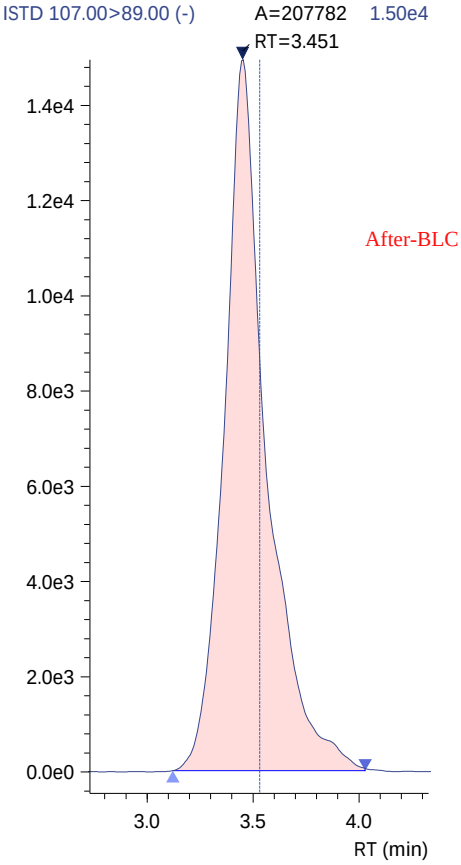
Conc 0.1177
R#1 39.56 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

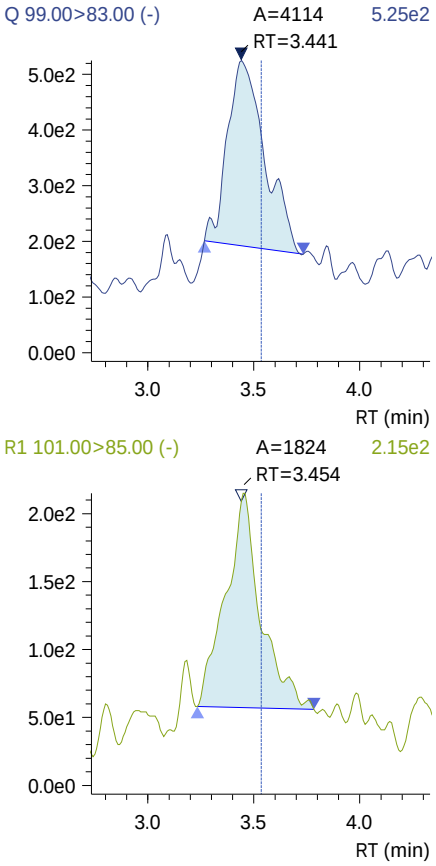
Printed at 6/25/2024 12:23:35 PM

EQ2400332-02LCS

Sample ID: EQ2400332-02LCS
Date Acquired: 6/20/2024 9:45:07 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-010.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 4

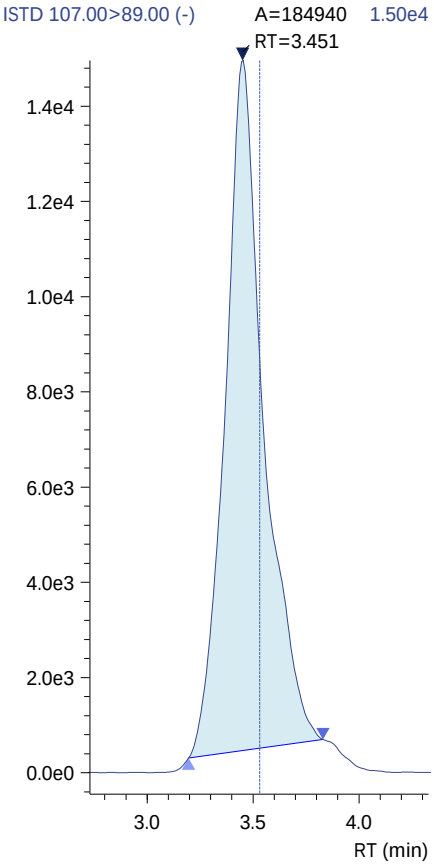
Perchlorate

Conc 0.1524
R#1 44.34 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/25/2024 12:18:43 PM

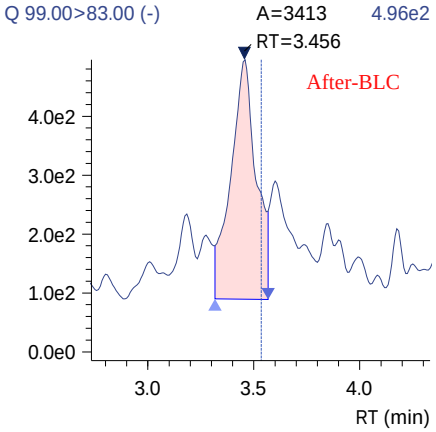
EQ2400332-03DLCS

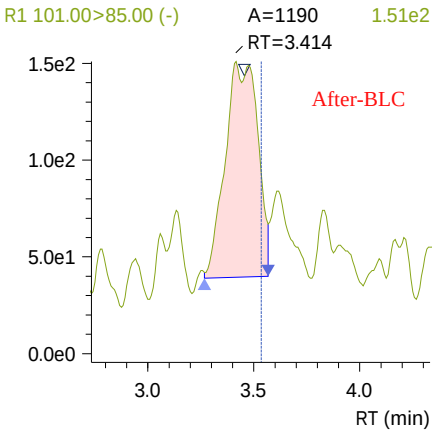
Sample ID: EQ2400332-03DLCS
Date Acquired: 6/20/2024 9:50:39 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-011.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.456	3413	203512	0.1149	ng/mL	101.00 >85.00	34.86	23.86 -43.30
Sodium Perchlorate-18O4_IS	M	3.452	2035 12	203512	1.0000	ng/mL	----	----	

Perchlorate

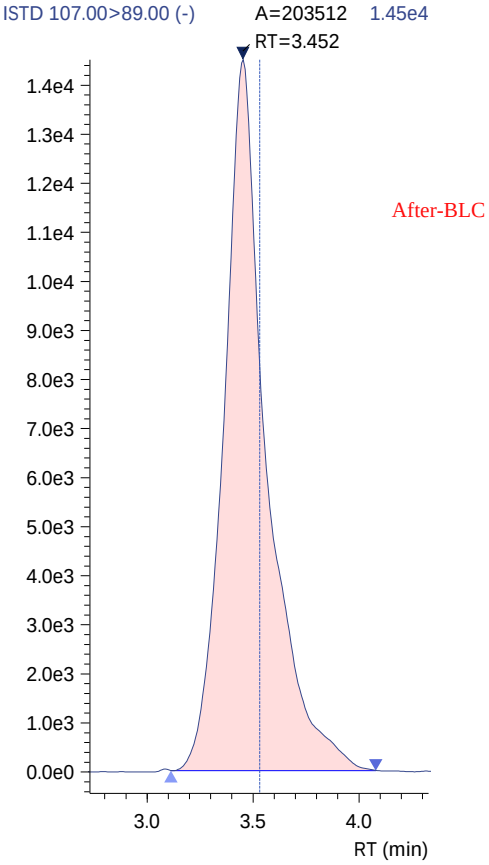
Conc 0.1149
R#1 34.86 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

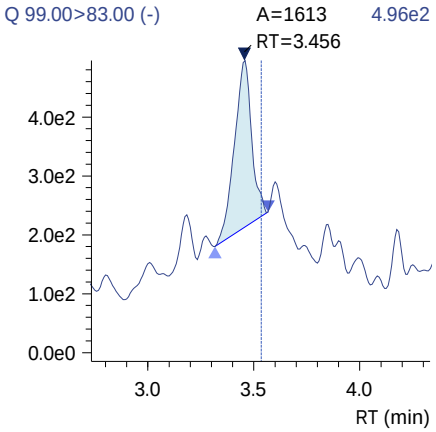
Printed at 6/25/2024 12:23:35 PM

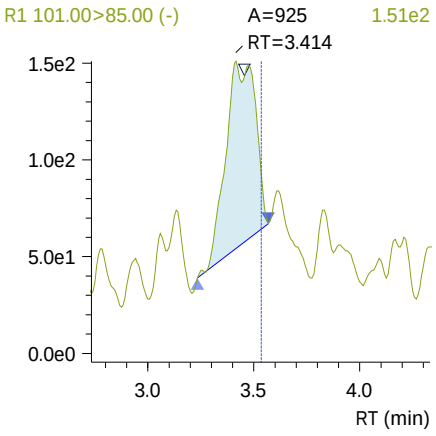
EQ2400332-03DLCS

Sample ID: EQ2400332-03DLCS
Date Acquired: 6/20/2024 9:50:39 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-011.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 4

Perchlorate

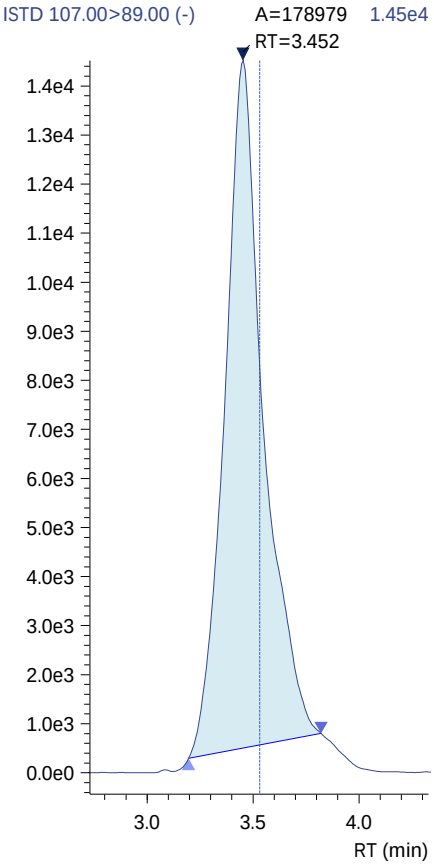
Conc 0.0617
R#1 57.31 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/25/2024 12:18:43 PM

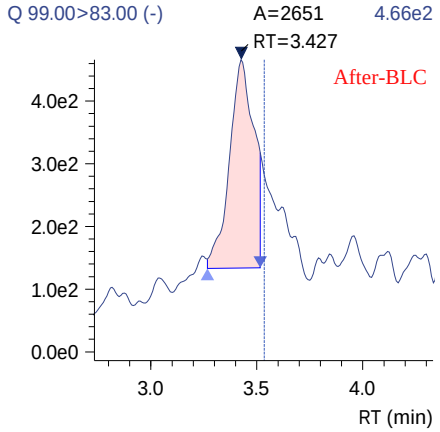
EQ2400328-04ICS

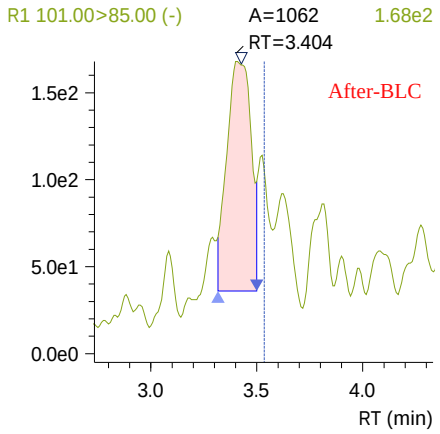
Sample ID: EQ2400328-04ICS
Date Acquired: 6/20/2024 9:56:12 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-012.lcd
Vial: 5 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.427	2651	181762	0.0999	ng/mL	101.00 >85.00	40.06	23.86 -43.30
Sodium Perchlorate-18O4 _IS	M	3.449	1817 62	181762	1.0000	ng/mL	----	----	

Perchlorate

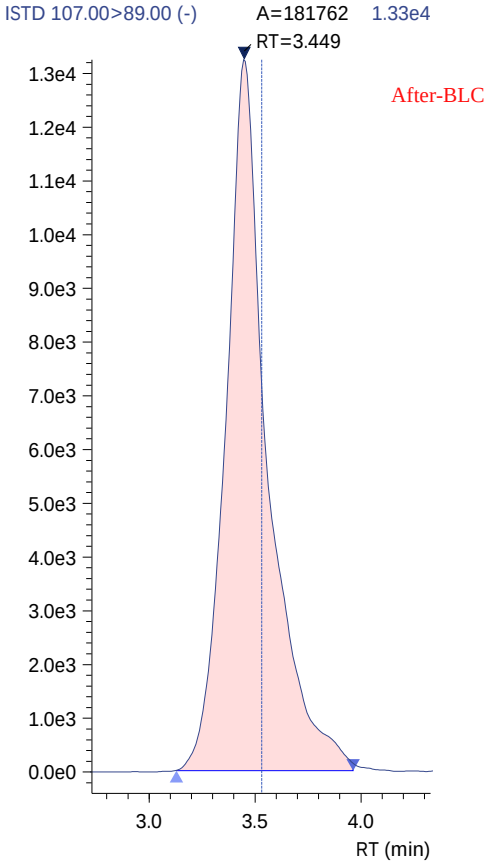
Conc 0.0999
R#1 40.06 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/25/2024 12:18:43 PM

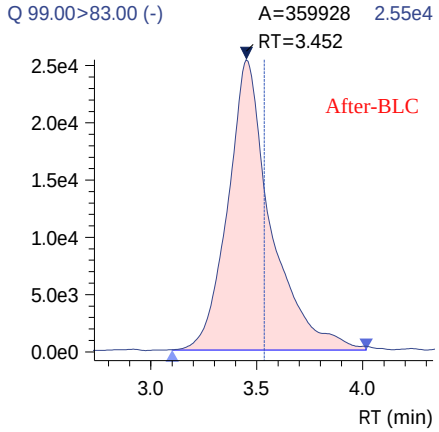
CCV

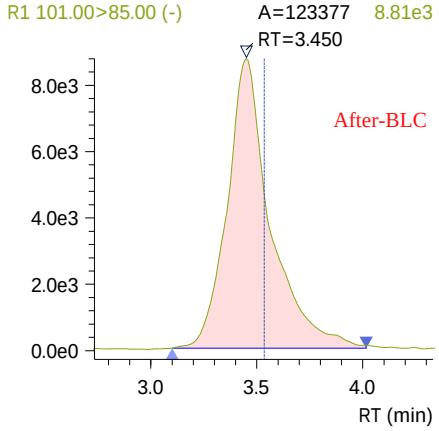
Sample ID: CCV
Date Acquired: 6/20/2024 10:34:58 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-019.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.452	359928	245753	10.0311	ng/mL	101.00 >85.00	34.28	23.86 -43.30
Sodium Perchlorate-18O4_IS	M	3.450	245753	245753	1.0000	ng/mL	----	----	

Perchlorate

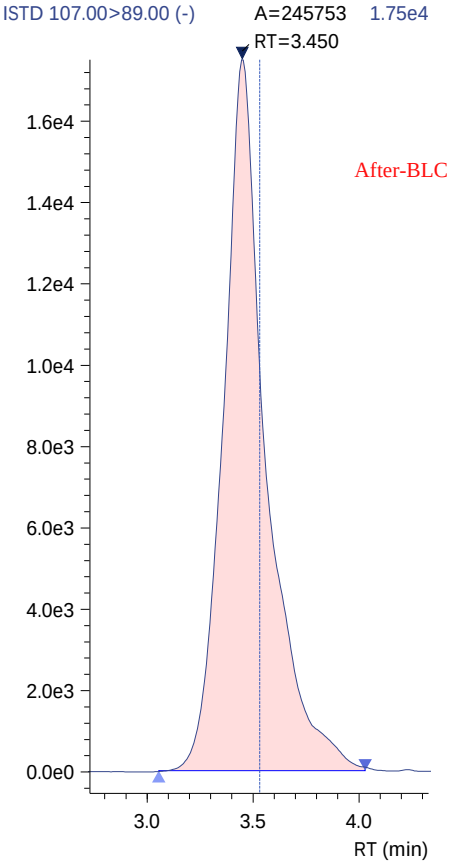
Conc 10.0311
R#1 34.28 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/25/2024 12:23:35 PM

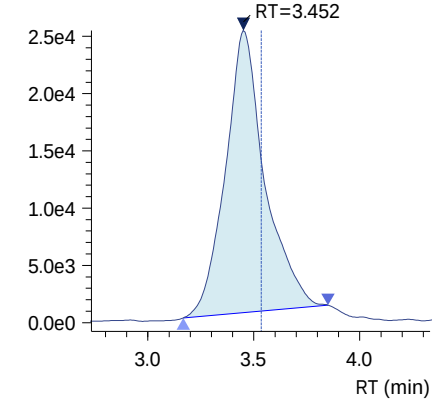
CCV

Sample ID: CCV
Date Acquired: 6/20/2024 10:34:58 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-019.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

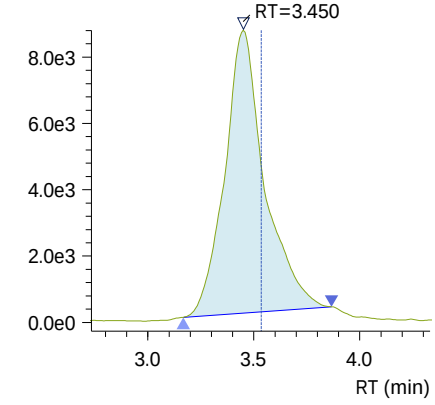
Perchlorate

Conc 10.2147
R#1 34.92 (34.10)

Q 99.00>83.00 (-) A=319048 2.55e4



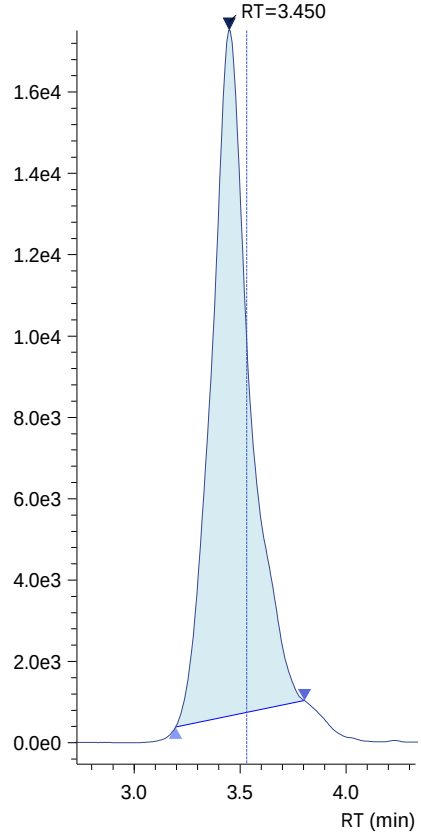
R1 101.00>85.00 (-) A=111395 8.81e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=213925 1.75e4



Insight Report

Printed at 6/25/2024 12:18:43 PM

IB

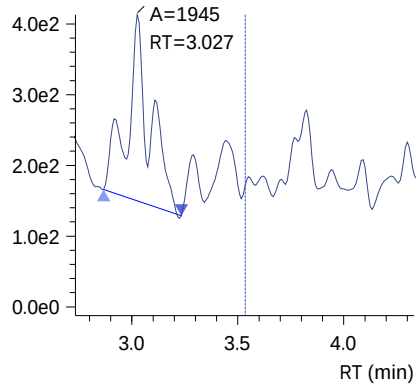
Sample ID: IB
Date Acquired: 6/20/2024 10:40:32 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-020.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	221188	----	ng/mL	101.00 >85.00	0.00	23.86 -43.30
Sodium Perchlorate-18O4_IS	Auto	3.447	221188	221188	1.0000	ng/mL	----	----	

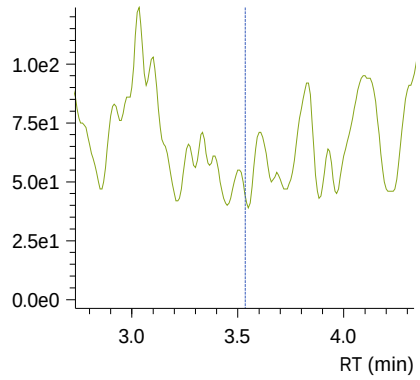
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 4.13e2



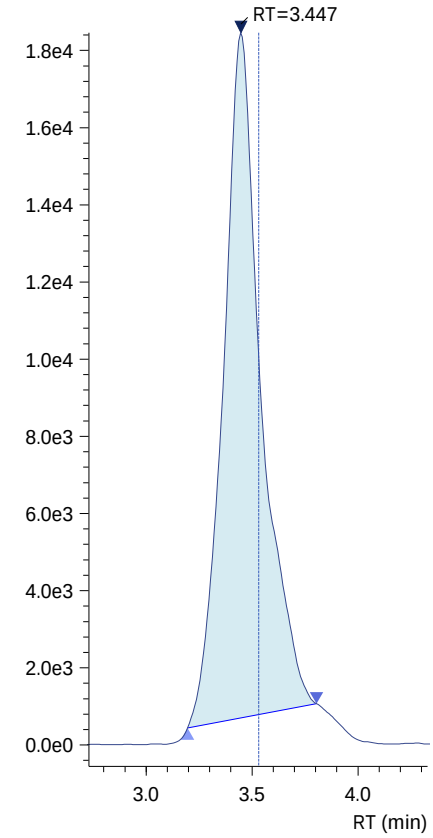
R1 101.00>85.00 (-) 1.24e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=221188 1.85e4



Insight Report

Printed at 6/25/2024 12:18:43 PM

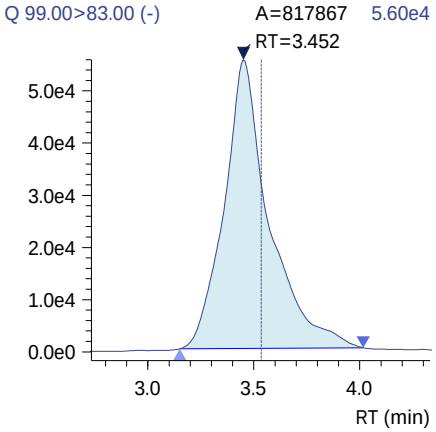
E2400683-002

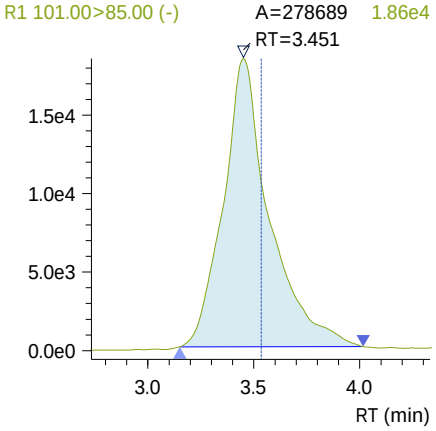
Sample ID: E2400683-002
Date Acquired: 6/20/2024 11:02:42 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-024.lcd
Vial: 9 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.452	8178 67	192387	29.1 166	ng/mL	101.00 >85.00	34.08	23.86 -43.30
Sodium Perchlorate-18O4_IS	M	3.449	1923 87	192387	1.0000	ng/mL	----	----	

Perchlorate

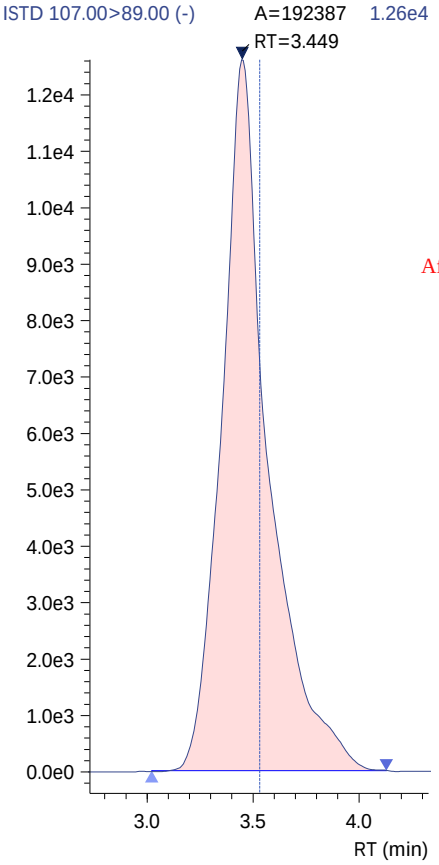
Conc 29.1166
R#1 34.08 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



After-BLC

Insight Report

Printed at 6/25/2024 12:23:35 PM

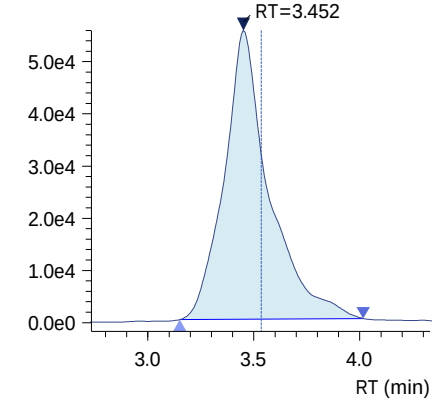
E2400683-002

Sample ID: E2400683-002
Date Acquired: 6/20/2024 11:02:42 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-024.lcd
Vial: 9 | Inj. Volume: 10.0000uL | Tray: 4

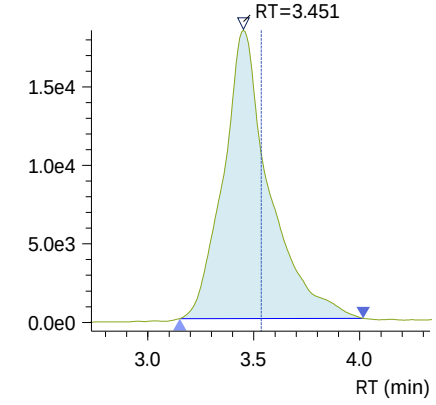
Perchlorate

Conc 30.3624
R#1 34.08 (34.10)

Q 99.00>83.00 (-) A=817867 5.60e4



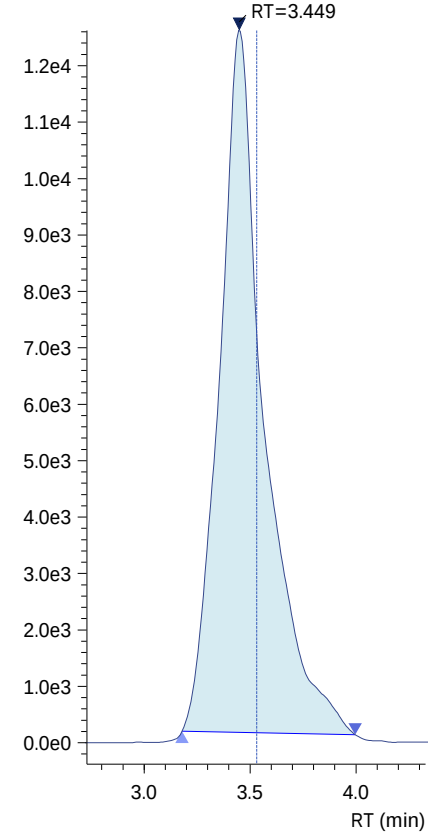
R1 101.00>85.00 (-) A=278689 1.86e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=184493 1.26e4



Insight Report

Printed at 6/25/2024 12:18:43 PM

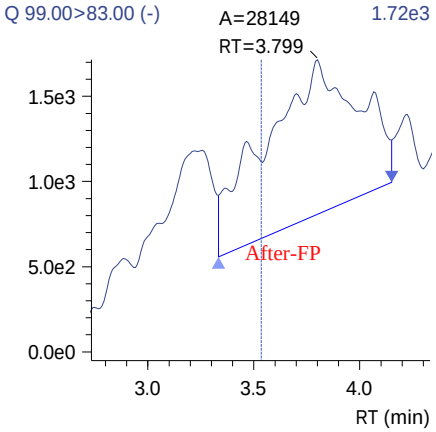
E2400683-005

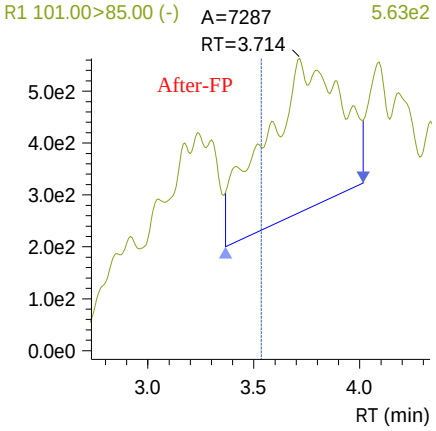
Sample ID: E2400683-005
Date Acquired: 6/20/2024 11:19:21 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-027.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	NI	----	----	160081	----	ng/mL	101.00 >85.00	25.89	23.86 -43.30
Sodium Perchlorate-18O4_IS	M	3.454	160081	160081	1.0000	ng/mL	----	----	

Perchlorate

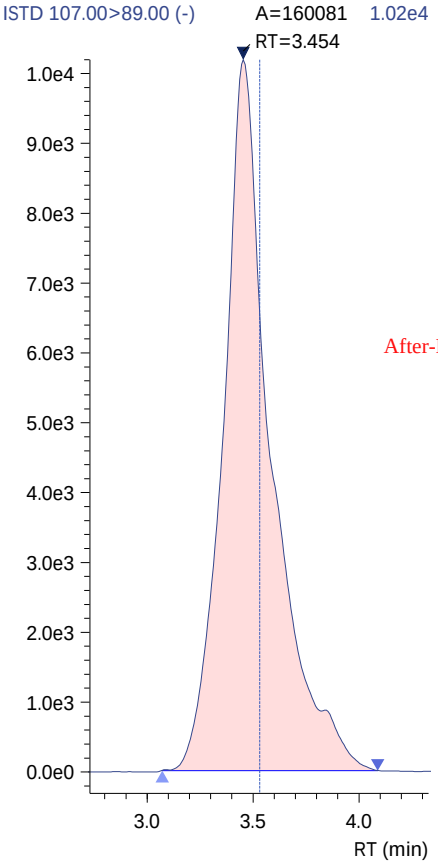
Conc ----
R#1 25.89 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/25/2024 12:23:35 PM

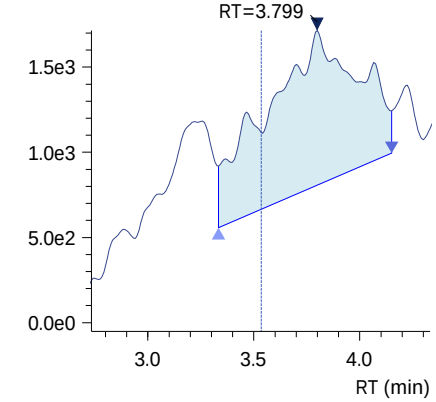
E2400683-005

Sample ID: E2400683-005
Date Acquired: 6/20/2024 11:19:21 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-027.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 4

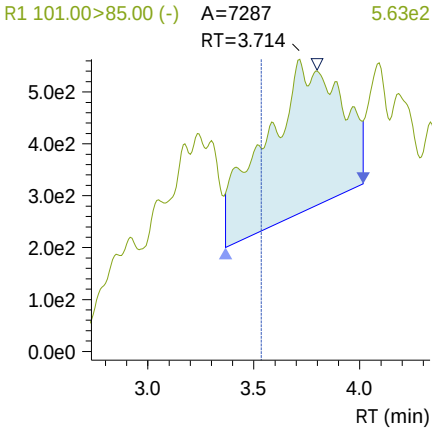
Perchlorate

Conc 1.4447
R#1 25.89 (34.10)

Q 99.00>83.00 (-) A=28149 1.72e3



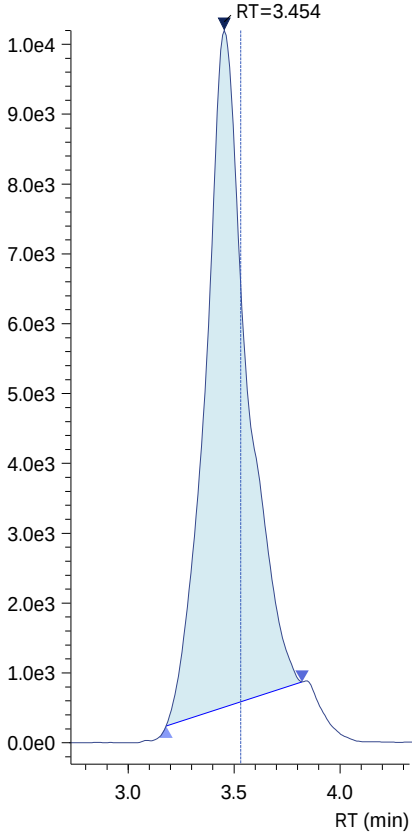
R1 101.00>85.00 (-) A=7287 5.63e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=133450 1.02e4



Insight Report

Printed at 6/25/2024 12:18:43 PM

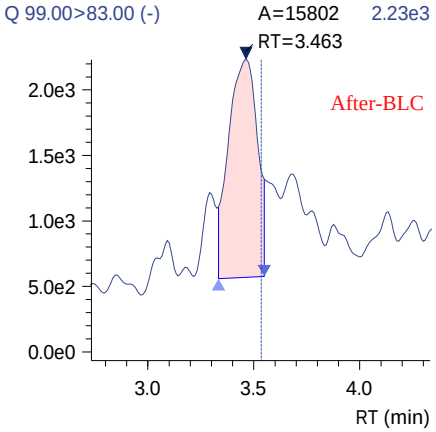
E2400683-006

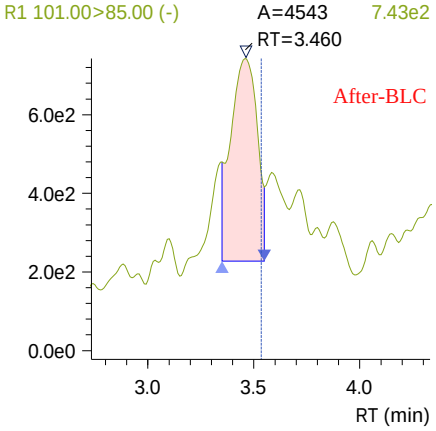
Sample ID: E2400683-006
Date Acquired: 6/20/2024 11:24:55 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-028.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.463	15802	229945	0.4707	ng/mL	101.00 >85.00	28.75	23.86 -43.30
Sodium Perchlorate-18O4_IS	M	3.446	229945	229945	1.0000	ng/mL	----	----	

Perchlorate

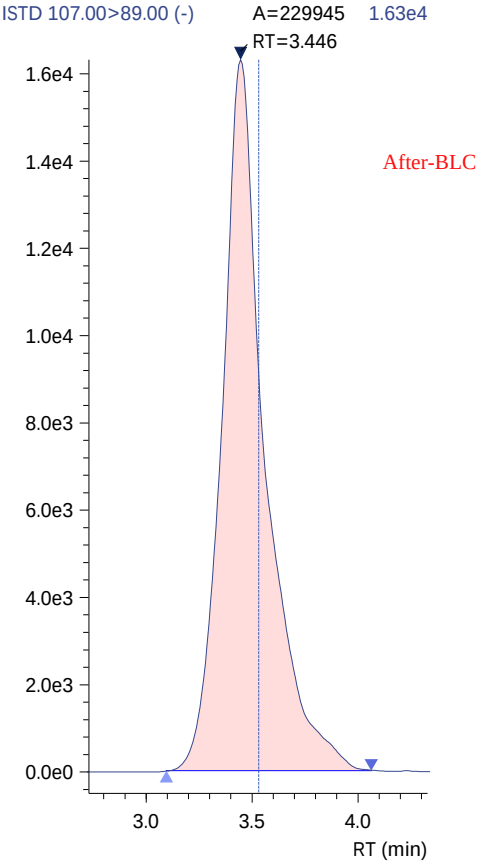
Conc 0.4707
R#1 28.75 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/25/2024 12:23:35 PM

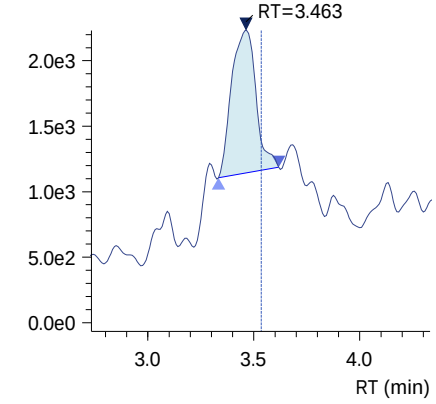
E2400683-006

Sample ID: E2400683-006
Date Acquired: 6/20/2024 11:24:55 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-028.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 4

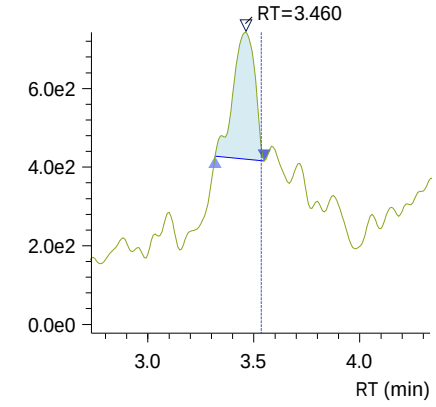
Perchlorate

Conc 0.2911
R#1 26.19 (34.10)

Q 99.00>83.00 (-) A=8777 2.23e3



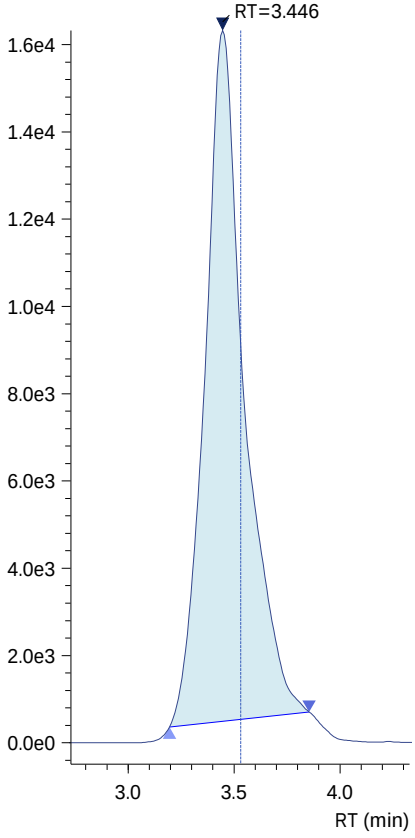
R1 101.00>85.00 (-) A=2299 7.43e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=206477 1.63e4



Insight Report

Printed at 6/25/2024 12:18:43 PM

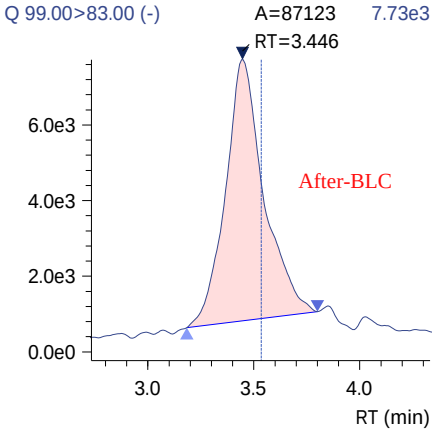
E2400683-007

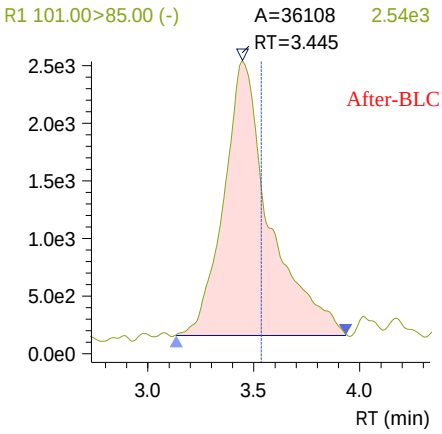
Sample ID: E2400683-007
Date Acquired: 6/20/2024 11:30:26 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-029.lcd
Vial: 14 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	MI	3.446	87123	221442	2.6947	ng/mL	101.00 >85.00	41.45	23.86 -43.30
Sodium Perchlorate-18O4_IS	M	3.447	221442	221442	1.0000	ng/mL	----	----	

Perchlorate

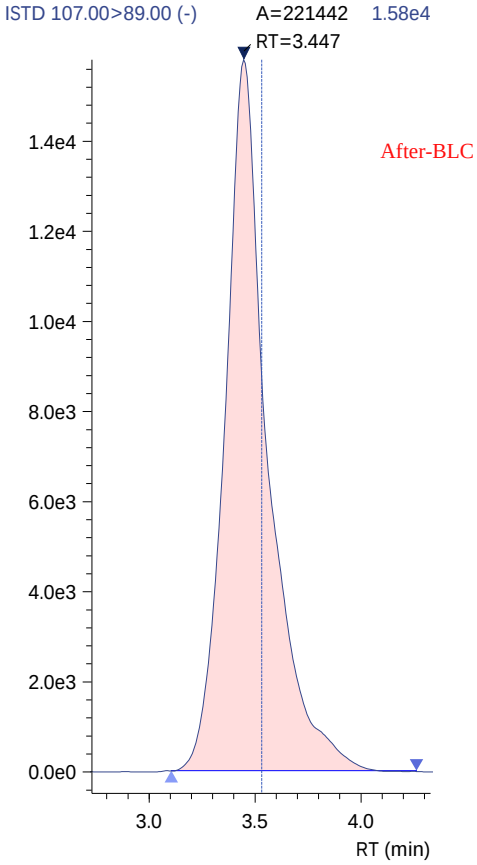
Conc 2.6947
R#1 41.45 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/25/2024 12:23:35 PM

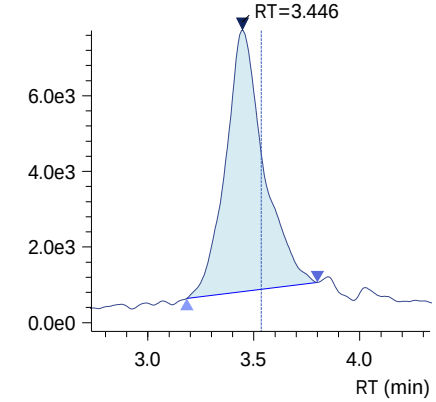
E2400683-007

Sample ID: E2400683-007
Date Acquired: 6/20/2024 11:30:26 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-029.lcd
Vial: 14 | Inj. Volume: 10.0000uL | Tray: 4

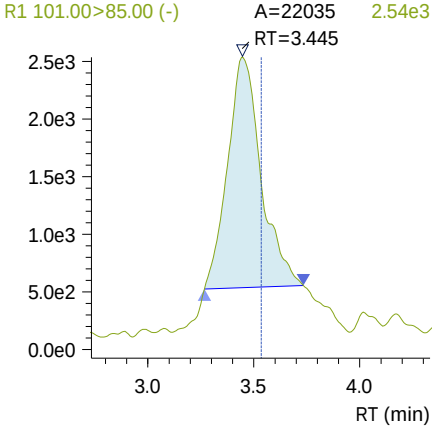
Perchlorate

Conc 3.0597
R#1 25.29 (34.10)

Q 99.00>83.00 (-) A=87123 7.73e3



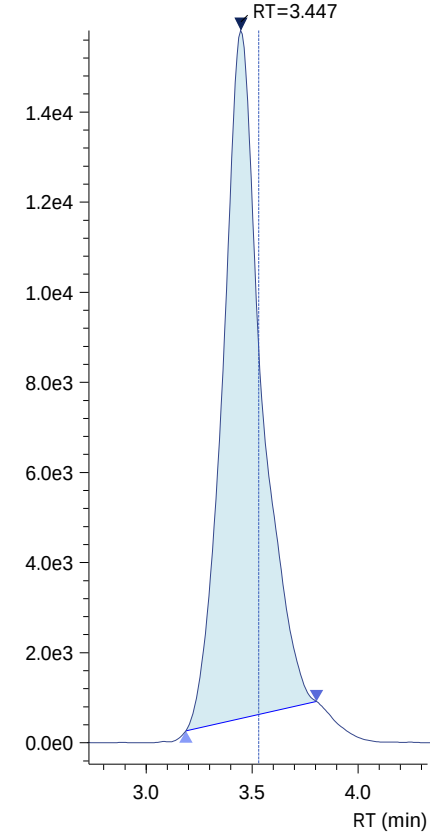
R1 101.00>85.00 (-) A=22035 2.54e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=195025 1.58e4



Insight Report

Printed at 6/25/2024 12:18:43 PM

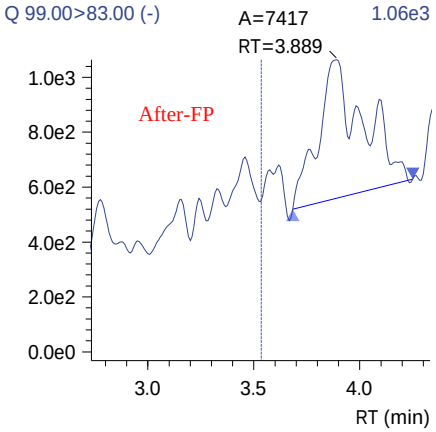
E2400683-008

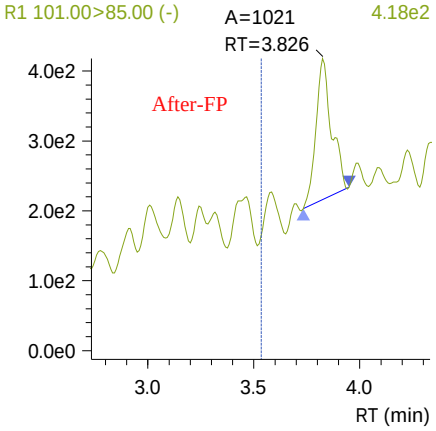
Sample ID: E2400683-008
Date Acquired: 6/20/2024 11:35:57 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-030.lcd
Vial: 15 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	NI	----	----	229911	----	ng/mL	101.00 >85.00	13.77	23.86 -43.30
Sodium Perchlorate-18O4 _IS	M	3.451	229911	229911	1.0000	ng/mL	----	----	

Perchlorate

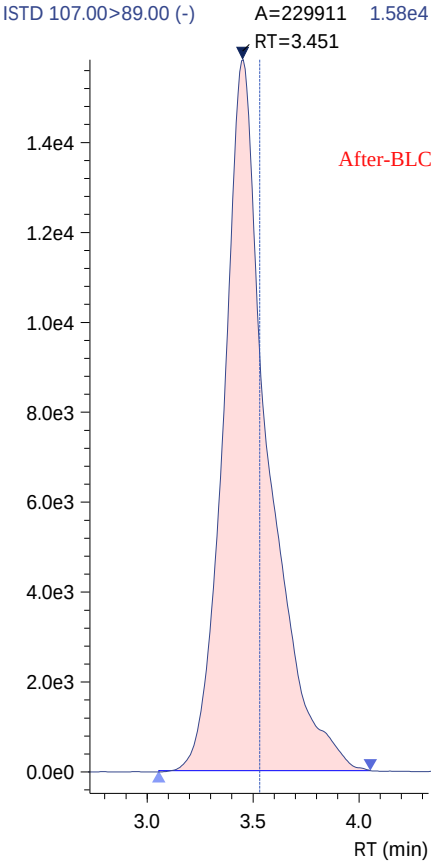
Conc ----
R#1 13.77 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

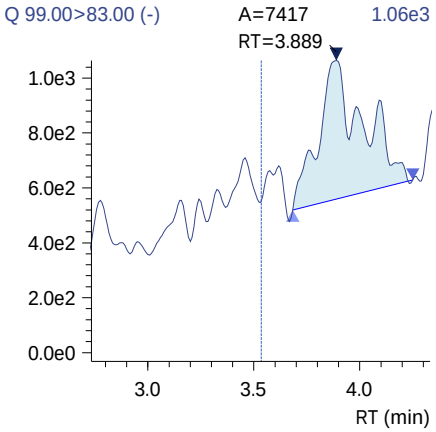
Printed at 6/25/2024 12:23:35 PM

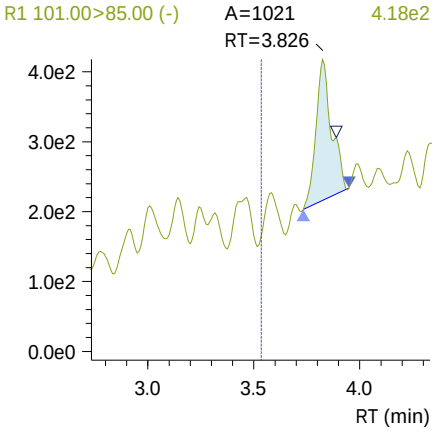
E2400683-008

Sample ID: E2400683-008
Date Acquired: 6/20/2024 11:35:57 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-030.lcd
Vial: 15 | Inj. Volume: 10.0000uL | Tray: 4

Perchlorate

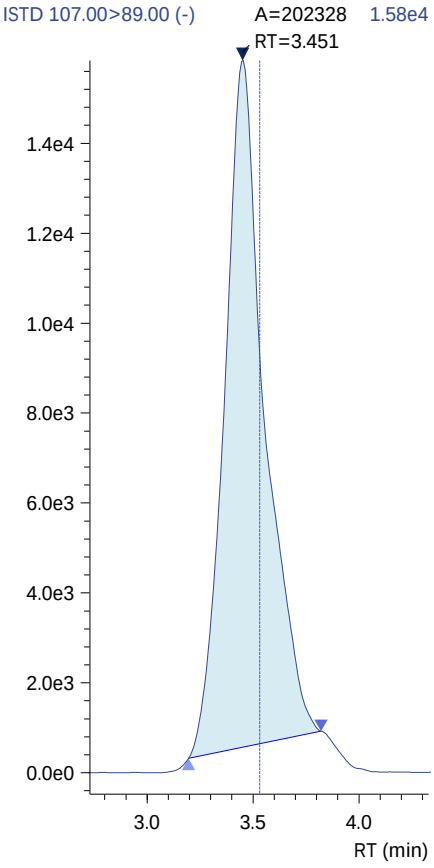
Conc 0.2511
R#1 13.77 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/25/2024 12:18:43 PM

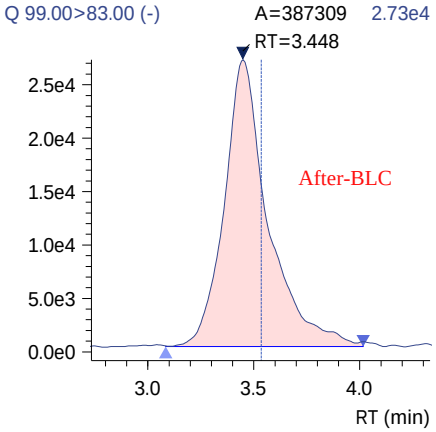
CCV

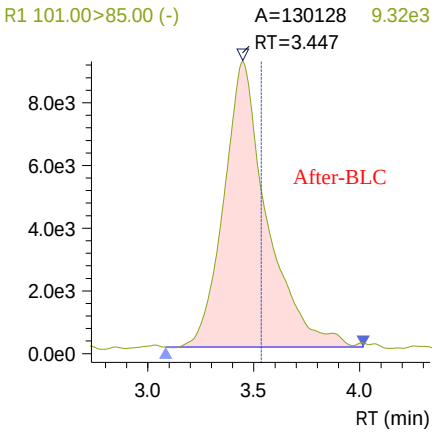
Sample ID: CCV
Date Acquired: 6/20/2024 11:41:32 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-031.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.448	387309	260308	10.1906	ng/mL	101.00 >85.00	33.60	23.86 -43.30
Sodium Perchlorate-18O4_IS	M	3.447	260308	260308	1.0000	ng/mL	----	----	

Perchlorate

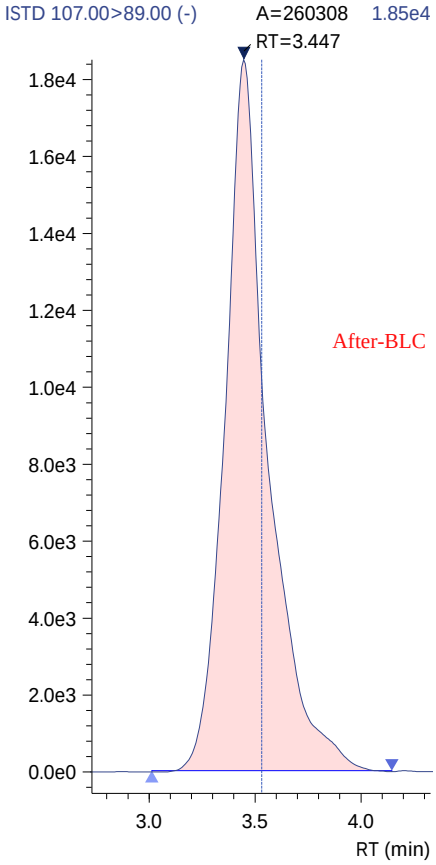
Conc 10.1906
R#1 33.60 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/25/2024 12:23:35 PM

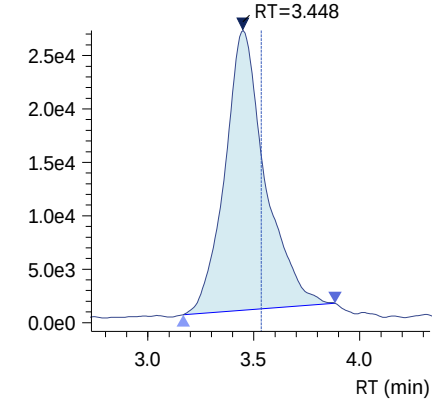
CCV

Sample ID: CCV
Date Acquired: 6/20/2024 11:41:32 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-031.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

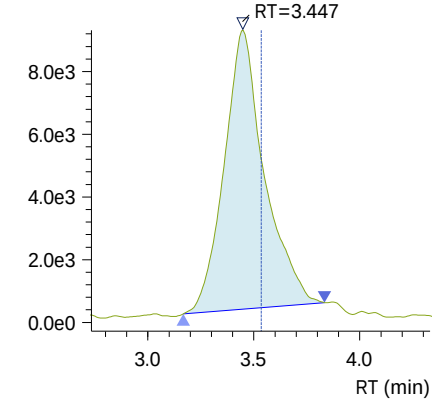
Perchlorate

Conc 10.3725
R#1 33.85 (34.10)

Q 99.00>83.00 (-) A=347696 2.73e4
RT=3.448



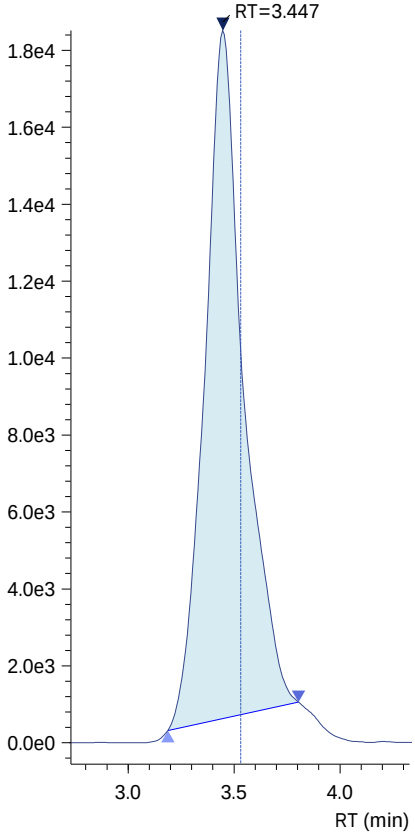
R1 101.00>85.00 (-) A=117682 9.32e3
RT=3.447



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=229587 1.85e4
RT=3.447



Insight Report

Printed at 6/25/2024 12:18:43 PM

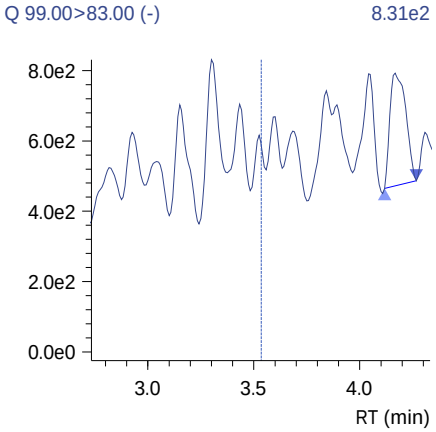
IB

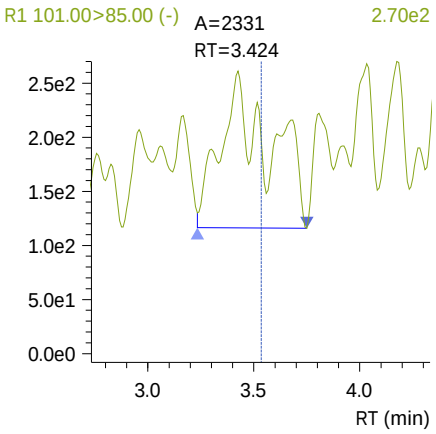
Sample ID: IB
Date Acquired: 6/20/2024 11:47:01 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-032.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	268896	----	ng/mL	101.00 >85.00	0.00	23.86 -43.30
Sodium Perchlorate-18O4_IS	M	3.445	268896	268896	1.0000	ng/mL	----	----	

Perchlorate

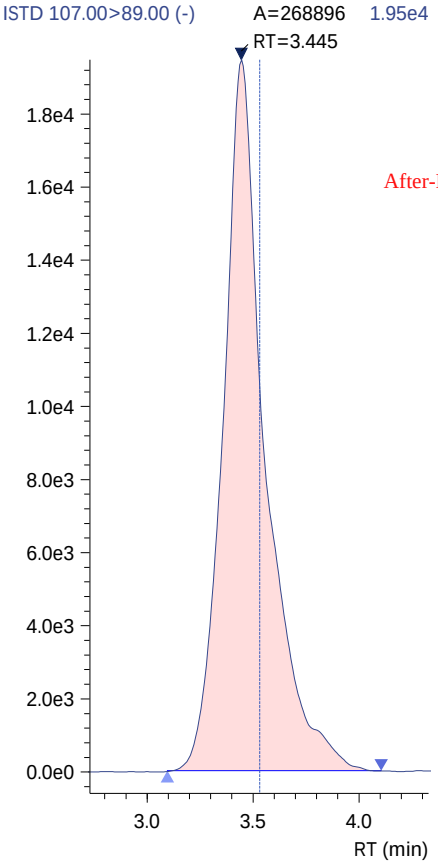
Conc ----
R#1 0.00 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



After-BLC

Insight Report

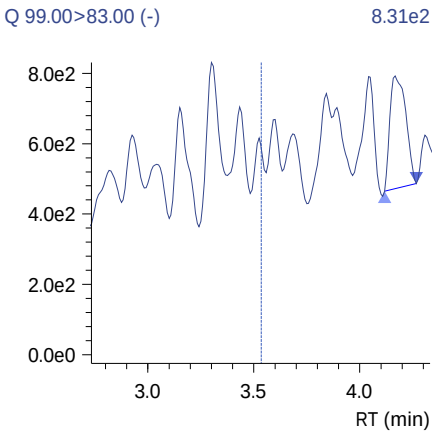
Printed at 6/25/2024 12:23:35 PM

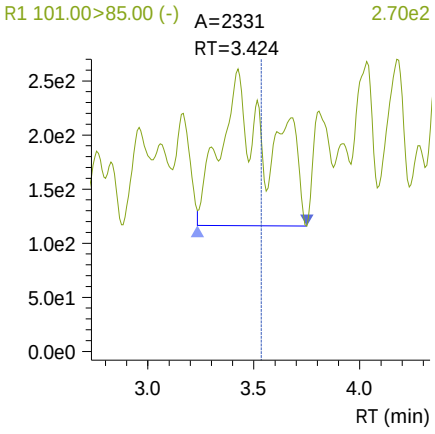
IB

Sample ID: IB
Date Acquired: 6/20/2024 11:47:01 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-032.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Perchlorate

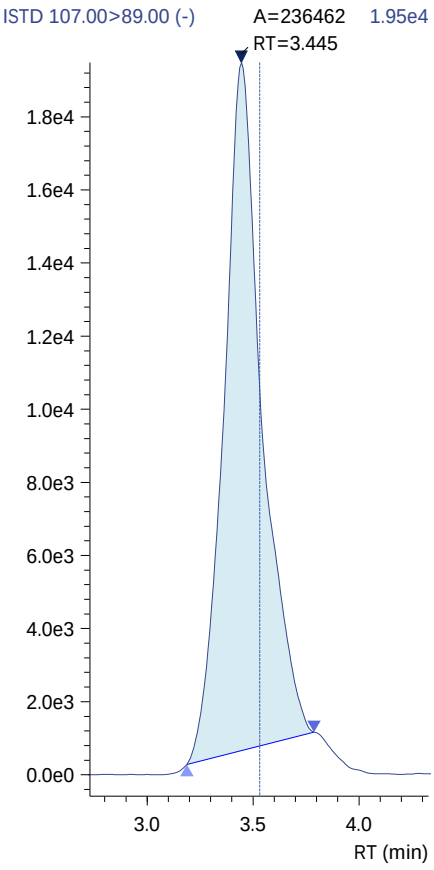
Conc ----
R#1 0.00 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/25/2024 12:18:43 PM

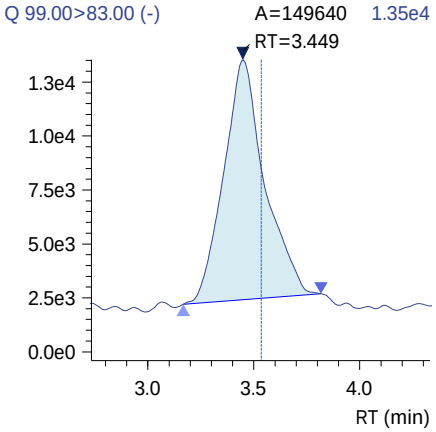
E2400683-001x500

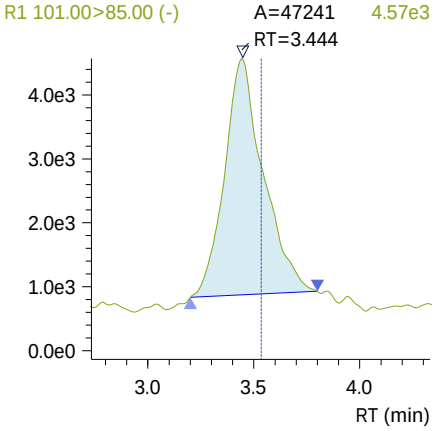
Sample ID: E2400683-001
Date Acquired: 6/20/2024 12:42:27 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-042.lcd
Vial: 25 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.449	149640	249351	4.1103	ng/mL	101.00 >85.00	31.57	23.86 -43.30
Sodium Perchlorate-18O4_IS	M	3.444	249351	249351	1.0000	ng/mL	----	----	

Perchlorate

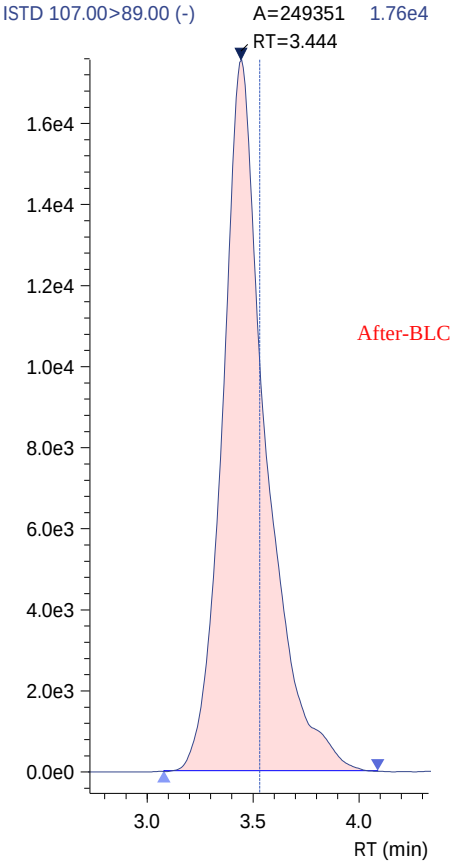
Conc 4.1103
R#1 31.57 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



After-BLC

Insight Report

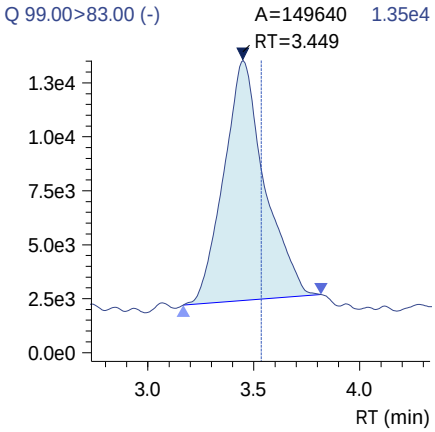
Printed at 6/25/2024 12:23:35 PM

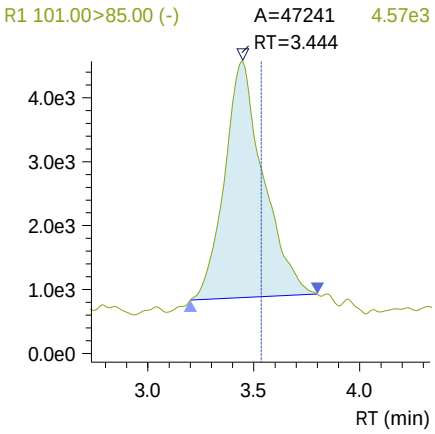
E2400683-001x500

Sample ID: E2400683-001
Date Acquired: 6/20/2024 12:42:27 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-042.lcd
Vial: 25 | Inj. Volume: 10.0000uL | Tray: 4

Perchlorate

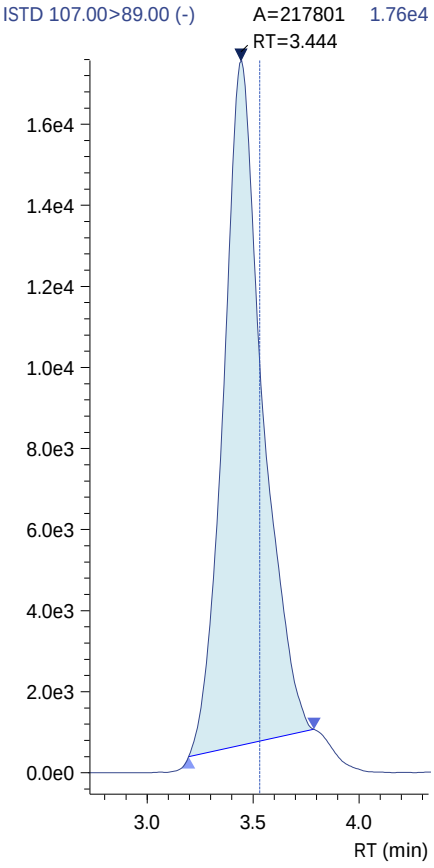
Conc 4.7057
R#1 31.57 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/25/2024 12:18:43 PM

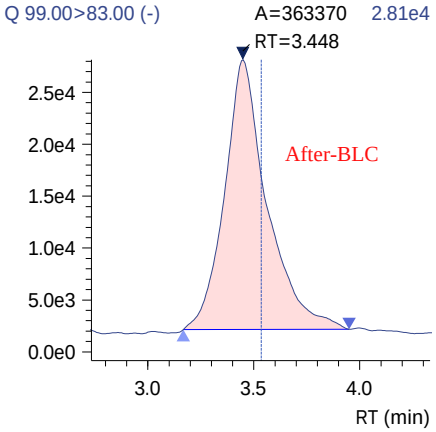
CCV

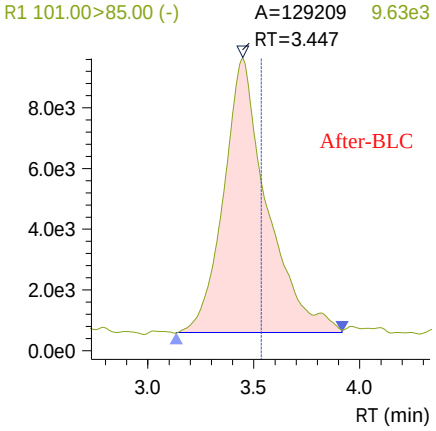
Sample ID: CCV
Date Acquired: 6/20/2024 12:48:00 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-043.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	MI	3.448	363370	254706	9.7711	ng/mL	101.00 >85.00	35.56	23.86 -43.30
Sodium Perchlorate-18O4_IS	M	3.444	254706	254706	1.0000	ng/mL	----	----	

Perchlorate

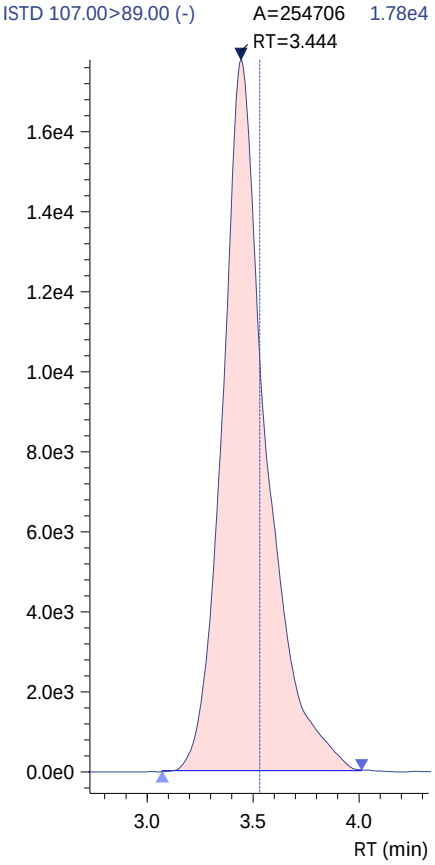
Conc 9.7711
R#1 35.56 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

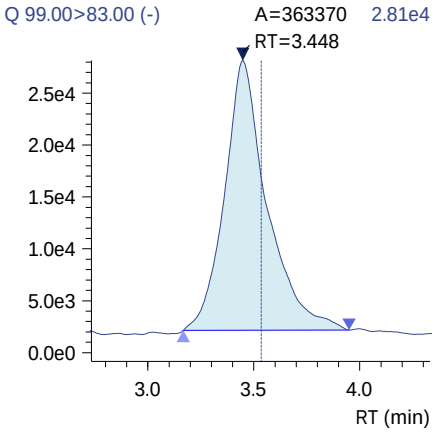
Printed at 6/25/2024 12:23:35 PM

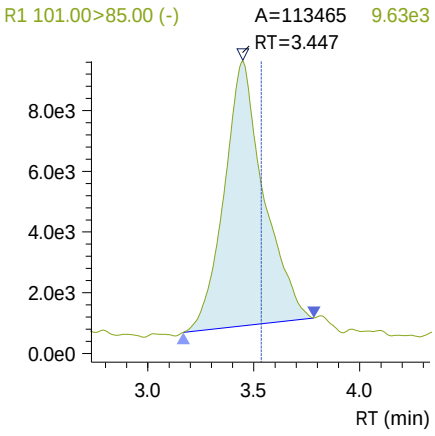
CCV

Sample ID: CCV
Date Acquired: 6/20/2024 12:48:00 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-043.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Perchlorate

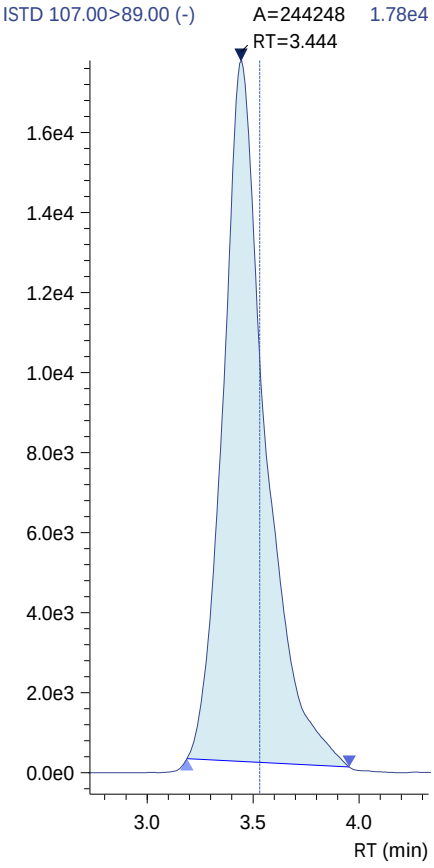
Conc 10.1895
R#1 31.23 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/25/2024 12:18:43 PM

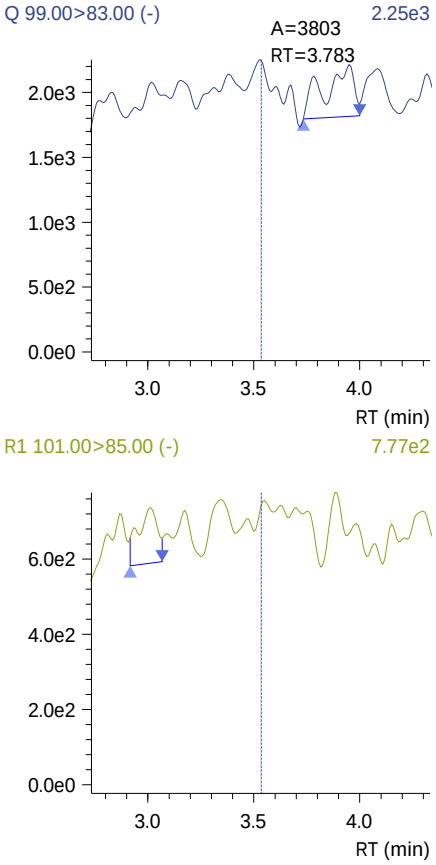
IB

Sample ID: IB
Date Acquired: 6/20/2024 12:53:34 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-044.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	NI	----	----	230558	----	ng/mL	101.00 >85.00	0.00	23.86 -43.30
Sodium Perchlorate-18O4_IS	Auto	3.449	230558	230558	1.0000	ng/mL	----	----	

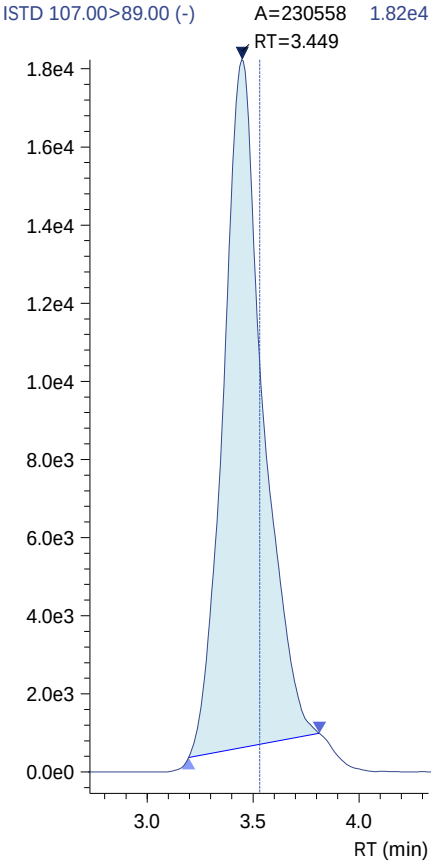
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/25/2024 12:18:43 PM

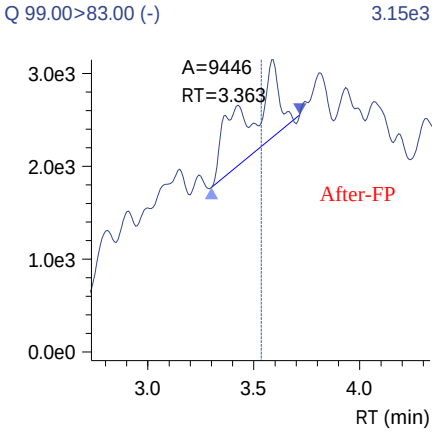
E2400683-003

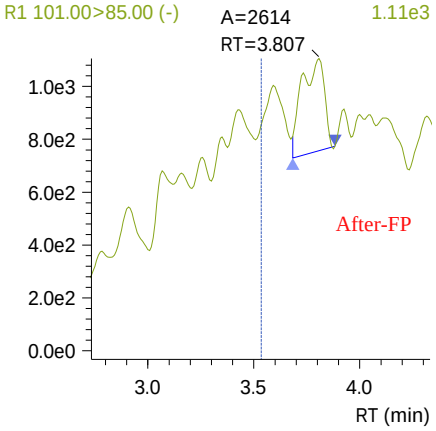
Sample ID: E2400683-003
Date Acquired: 6/20/2024 1:43:11 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-052.lcd
Vial: 10 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	NI	----	----	257308	----	ng/mL	101.00 >85.00	0.00	23.86 -43.30
Sodium Perchlorate-18O4_IS	M	3.459	257308	257308	1.0000	ng/mL	----	----	

Perchlorate

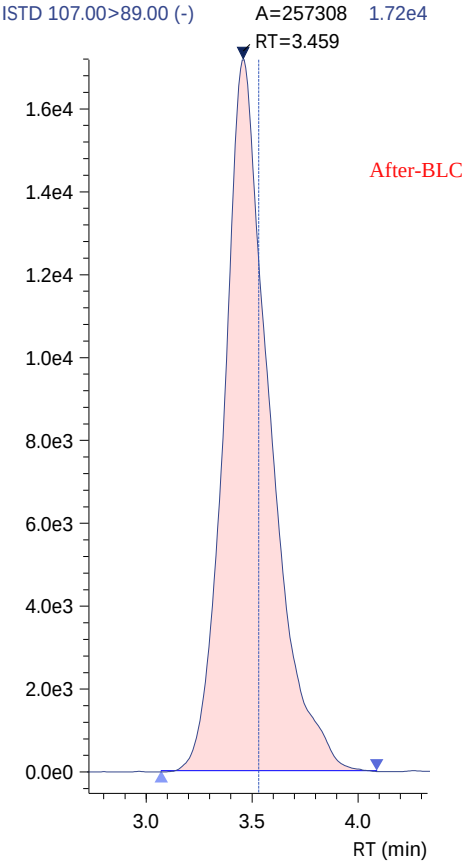
Conc ----
R#1 0.00 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

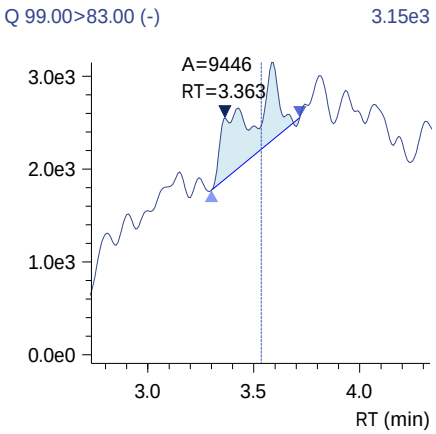
Printed at 6/25/2024 12:23:35 PM

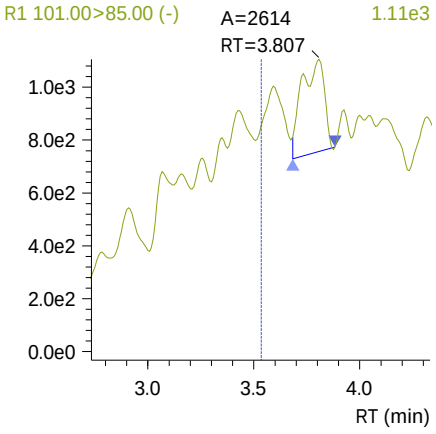
E2400683-003

Sample ID: E2400683-003
Date Acquired: 6/20/2024 1:43:11 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-052.lcd
Vial: 10 | Inj. Volume: 10.0000uL | Tray: 4

Perchlorate

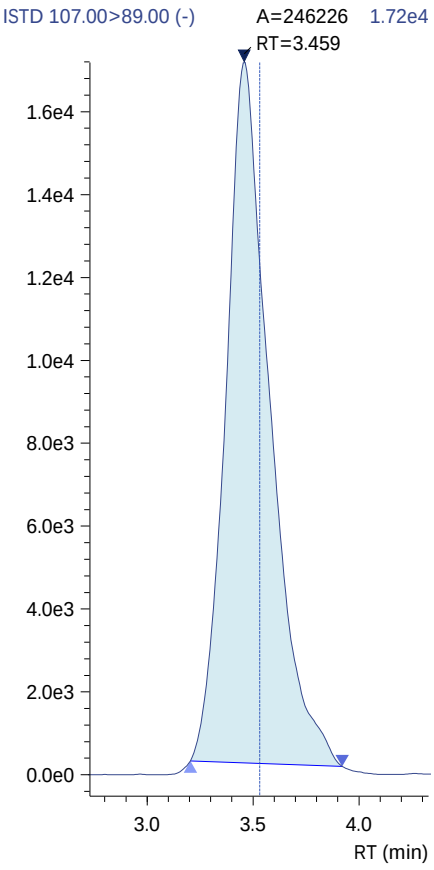
Conc 0.2628
R#1 0.00 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/25/2024 12:18:43 PM

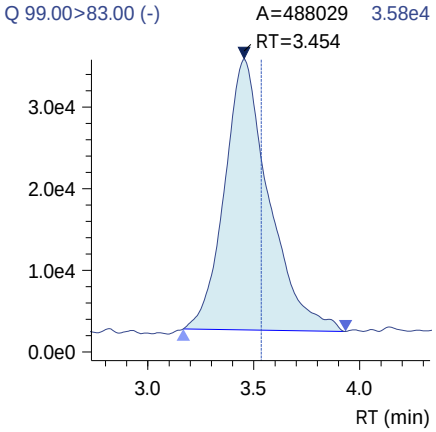
E2400683-004x1000

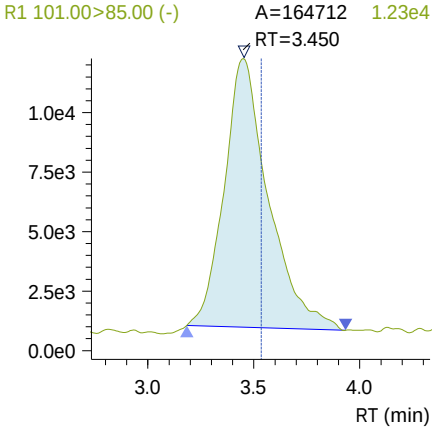
Sample ID: E2400683-004
Date Acquired: 6/20/2024 1:48:45 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-053.lcd
Vial: 33 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.454	4880 29	233945	14.2 877	ng/mL	101.00 >85.00	33.75	23.86 -43.30
Sodium Perchlorate-18O4_IS	M	3.447	2339 45	233945	1.0000	ng/mL	----	----	

Perchlorate

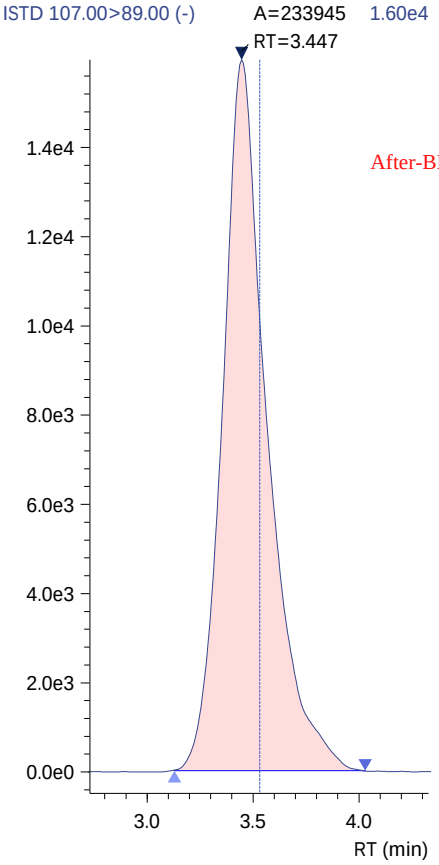
Conc 14.2877
R#1 33.75 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



After-BLC

Insight Report

Printed at 6/25/2024 12:23:35 PM

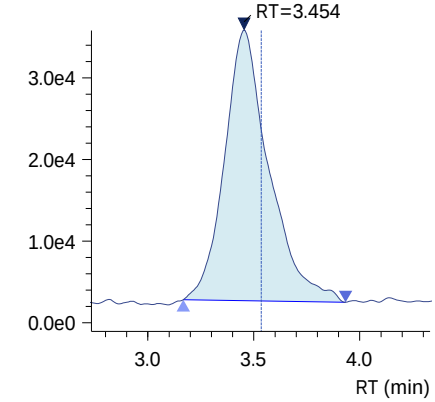
E2400683-004x1000

Sample ID: E2400683-004
Date Acquired: 6/20/2024 1:48:45 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-053.lcd
Vial: 33 | Inj. Volume: 10.0000uL | Tray: 4

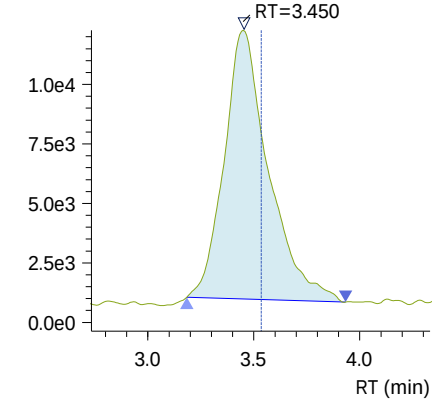
Perchlorate

Conc 14.7933
R#1 33.75 (34.10)

Q 99.00>83.00 (-) A=488029 3.58e4



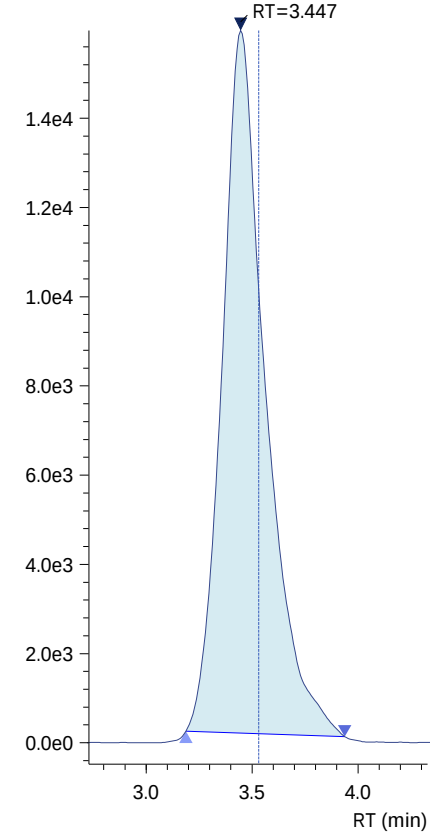
R1 101.00>85.00 (-) A=164712 1.23e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=225951 1.60e4



Insight Report

Printed at 6/25/2024 12:18:43 PM

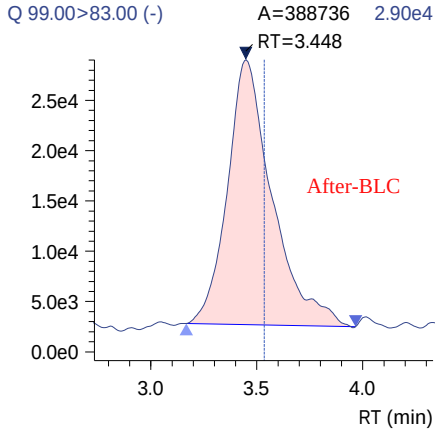
CCV

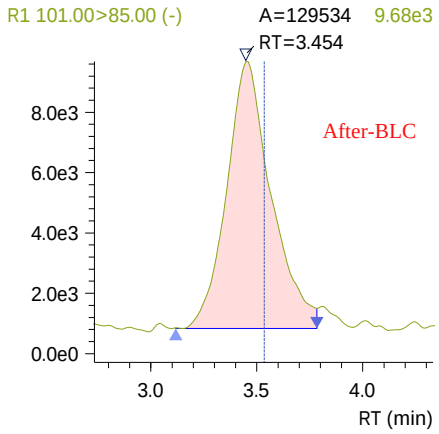
Sample ID: CCV
Date Acquired: 6/20/2024 1:54:16 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-054.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	MI	3.448	3887 36	261796	10.1 701	ng/mL	101.00 >85.00	33.32	23.86 -43.30
Sodium Perchlorate-18O4_IS	M	3.447	2617 96	261796	1.0000	ng/mL	----	----	

Perchlorate

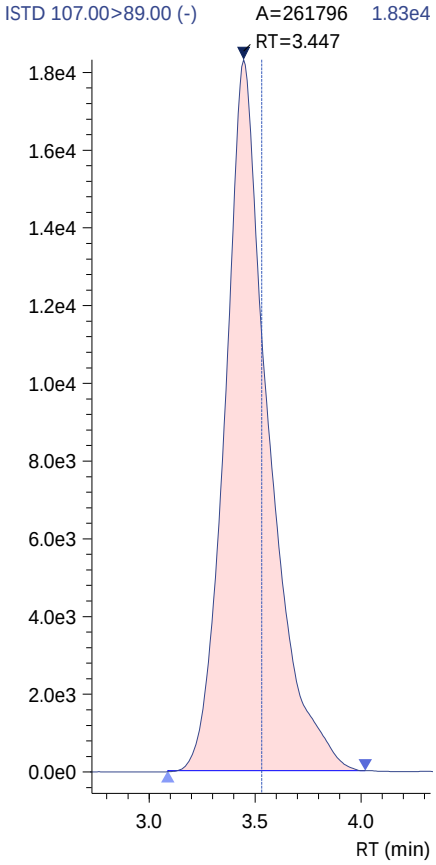
Conc 10.1701
R#1 33.32 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



After-BLC

Insight Report

Printed at 6/25/2024 12:23:35 PM

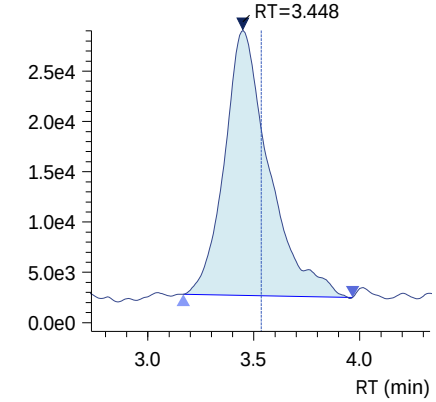
CCV

Sample ID: CCV
Date Acquired: 6/20/2024 1:54:16 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-054.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

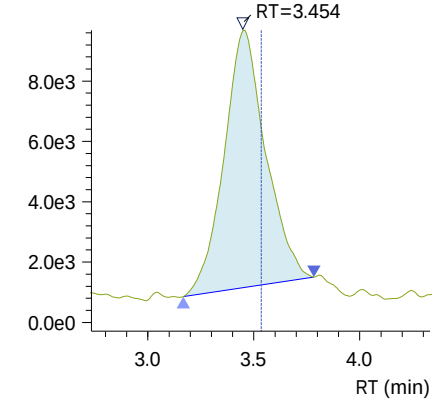
Perchlorate

Conc 10.6345
R#1 30.04 (34.10)

Q 99.00>83.00 (-) A=388736 2.90e4



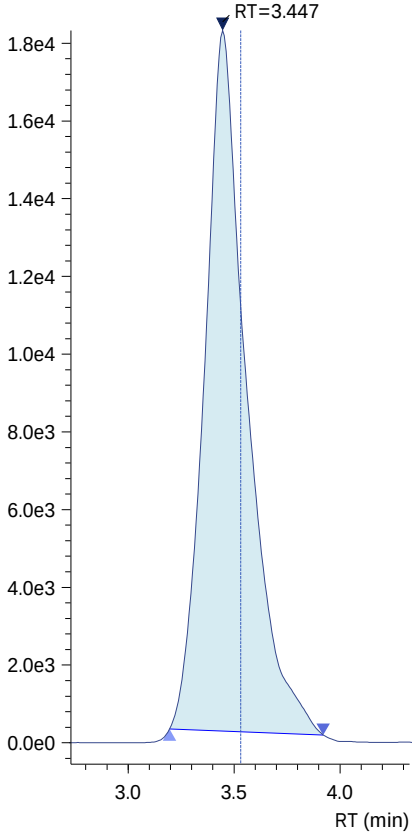
R1 101.00>85.00 (-) A=116761 9.68e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=250364 1.83e4



Insight Report

Printed at 6/25/2024 12:18:43 PM

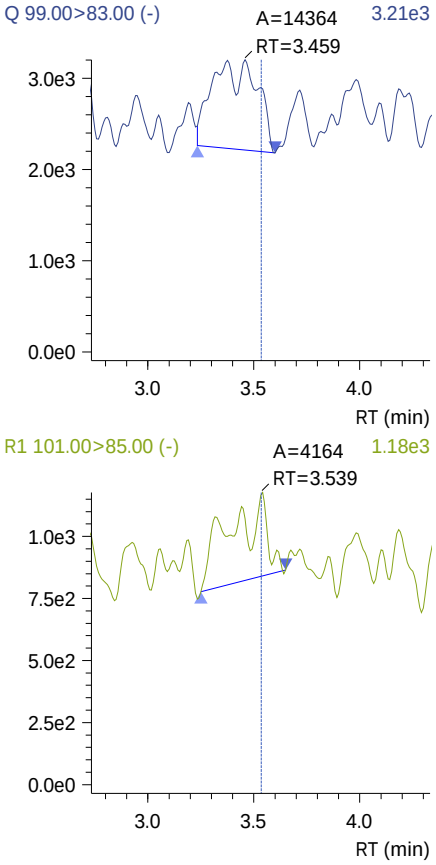
IB

Sample ID: IB
Date Acquired: 6/20/2024 1:59:49 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-055.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	NI	----	----	252577	----	ng/mL	101.00 >85.00	28.99	23.86 -43.30
Sodium Perchlorate-18O4_IS	Auto	3.444	2525 77	252577	1.0000	ng/mL	----	----	

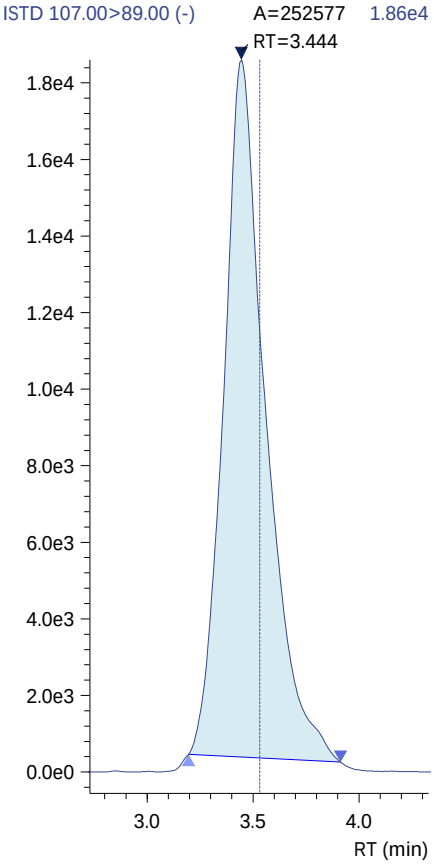
Perchlorate

Conc ----
R#1 28.99 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



HS24060747 LHAAP 18 24 COVER PAGE REV01

ALS WO# HS24060747

ALS Environmental
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right solutions.
right partner.

WorkOrder: HS24060747

LHAAP 18 24

Bhate Environmental Associates, Inc.

Marcia Olive
445 Union Blvd Ste 129
Lakewood CO 80228

19-Sep-2024

HS24060747 LHAAP 18 24 Final REV01

ALS WO# HS24060747

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August 30, 2024

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

Work Order: **HS24060747**

Laboratory Results for: **LHAAP 18 24**

Dear Marcia Olive,

ALS Environmental received 10 sample(s) on Jun 12, 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

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Work Order: HS24060747

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS24060747-01	1824DPTMW05_061024	Groundwater		10-Jun-2024 07:35	12-Jun-2024 09:55	☐
HS24060747-02	1824DPTMW05_061024_a	Groundwater		10-Jun-2024 07:35	12-Jun-2024 09:55	☐
HS24060747-03	129_061024	Groundwater		10-Jun-2024 08:25	12-Jun-2024 09:55	☐
HS24060747-04	120_061024	Groundwater		10-Jun-2024 09:10	12-Jun-2024 09:55	☐
HS24060747-05	MW14_061024	Groundwater		10-Jun-2024 09:55	12-Jun-2024 09:55	☐
HS24060747-06	MW23_061024	Groundwater		10-Jun-2024 10:40	12-Jun-2024 09:55	☐
HS24060747-07	CO9_061024	Groundwater		10-Jun-2024 11:25	12-Jun-2024 09:55	☐
HS24060747-08	CO1_061024	Groundwater		10-Jun-2024 12:15	12-Jun-2024 09:55	☐
HS24060747-09	126_061024	Groundwater		10-Jun-2024 13:00	12-Jun-2024 09:55	☐
HS24060747-10	Trip Blank	Groundwater		10-Jun-2024 00:00	12-Jun-2024 09:55	☐

Revision:1

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc. **CASE NARRATIVE**
Project: LHAAP 18 24
Work Order: HS24060747

Work Order Comments

• This report was revised 08/30/24 to correct the limit of detection values due to laboratory error.

Work Order Comments

• The analysis for Perchlorate was subcontracted to ALS High Res Lab Houston, TX. Final report attached.

GCMS Semivolatiles by Method SW8270SIM

Batch ID: 213459

Sample ID: 120_061024 (HS24060747-04)

• The surrogate recoveries could not be determined due to dilution below the calibration range.

Sample ID: 1824DPTMW05_061024 (HS24060747-01)

• The surrogate recoveries could not be determined due to dilution below the calibration range.

Sample ID: 1824DPTMW05_061024_a (HS24060747-02)

• The surrogate recoveries could not be determined due to dilution below the calibration range.

Sample ID: MW14_061024 (HS24060747-05)

• The surrogate recoveries could not be determined due to dilution below the calibration range.

GCMS Volatiles by Method SW8260

Batch ID: R470169

Sample ID: 120_061024 (HS24060747-04)

• Lowest possible dilution due to high concentrations of target analytes.

Sample ID: 129_061024 (HS24060747-03)

• Lowest possible dilution due to high concentrations of target analytes.

Sample ID: 1824DPTMW05_061024 (HS24060747-01)

• Lowest possible dilution due to high concentrations of target analytes.

Sample ID: 1824DPTMW05_061024_a (HS24060747-02)

• Lowest possible dilution due to high concentrations of target analytes.

Sample ID: MW14_061024 (HS24060747-05)

• Lowest possible dilution due to high concentrations of target analytes.

Sample ID: MW23_061024 (HS24060747-06)

• Lowest possible dilution due to high concentrations of target analytes.

Sample ID: CO1_061024 (HS24060747-08MS)

• MS/MSD failed outside QC control limits due to matrix interference.

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc. **CASE NARRATIVE**
Project: LHAAP 18 24
Work Order: HS24060747

GCMS Volatiles by Method SW8260

Batch ID: R469580

Sample ID: HS24060434-01MS

- MS and MSD are for an unrelated sample

Metals by Method SW7470A

Batch ID: 214008

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

Metals by Method SW6020A

Batch ID: 213798

Sample ID: HS24060694-01MS

- MS and MSD are for an unrelated sample

Sample ID: HS24060694-01PDS

- PDS is for an unrelated sample

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: 1824DPTMW05_061024
Collection Date: 10-Jun-2024 07:35

ANALYTICAL REPORT
WorkOrder:HS24060747
Lab ID:HS24060747-01
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	50	U	30	50	100	ug/L	100	21-Jun-2024 17:23
1,1,1-Trichloroethane	50	U	20	50	100	ug/L	100	21-Jun-2024 17:23
1,1,2,2-Tetrachloroethane	100	U	50	100	100	ug/L	100	21-Jun-2024 17:23
1,1,2-Trichloroethane	50	U	30	50	100	ug/L	100	21-Jun-2024 17:23
1,1-Dichloroethane	50	U	20	50	100	ug/L	100	21-Jun-2024 17:23
1,1-Dichloroethene	50	U	20	50	100	ug/L	100	21-Jun-2024 17:23
1,1-Dichloropropene	50	U	30	50	100	ug/L	100	21-Jun-2024 17:23
1,2,3-Trichlorobenzene	100	U	40	100	100	ug/L	100	21-Jun-2024 17:23
1,2,3-Trichloropropane	100	U	50	100	100	ug/L	100	21-Jun-2024 17:23
1,2,4-Trichlorobenzene	100	U	50	100	100	ug/L	100	21-Jun-2024 17:23
1,2,4-Trimethylbenzene	50	U	30	50	100	ug/L	100	21-Jun-2024 17:23
1,2-Dibromo-3-chloropropane	50	U	20	50	100	ug/L	100	21-Jun-2024 17:23
1,2-Dibromoethane	50	U	20	50	100	ug/L	100	21-Jun-2024 17:23
1,2-Dichlorobenzene	100	U	50	100	100	ug/L	100	21-Jun-2024 17:23
1,2-Dichloroethane	50	U	20	50	100	ug/L	100	21-Jun-2024 17:23
1,2-Dichloropropane	100	U	50	100	100	ug/L	100	21-Jun-2024 17:23
1,3,5-Trimethylbenzene	50	U	30	50	100	ug/L	100	21-Jun-2024 17:23
1,3-Dichlorobenzene	50	U	40	50	100	ug/L	100	21-Jun-2024 17:23
1,3-Dichloropropane	50	U	30	50	100	ug/L	100	21-Jun-2024 17:23
1,4-Dichlorobenzene	50	U	40	50	100	ug/L	100	21-Jun-2024 17:23
2,2-Dichloropropane	50	U	20	50	100	ug/L	100	21-Jun-2024 17:23
2-Butanone	100	U	50	100	200	ug/L	100	21-Jun-2024 17:23
2-Chlorotoluene	50	U	30	50	100	ug/L	100	21-Jun-2024 17:23
2-Hexanone	200	U	100	200	200	ug/L	100	21-Jun-2024 17:23
4-Chlorotoluene	50	U	40	50	100	ug/L	100	21-Jun-2024 17:23
4-Isopropyltoluene	50	U	30	50	100	ug/L	100	21-Jun-2024 17:23
4-Methyl-2-pentanone	100	U	70	100	200	ug/L	100	21-Jun-2024 17:23
Acetone	50	U	40	50	200	ug/L	100	21-Jun-2024 17:23
Benzene	50	U	20	50	100	ug/L	100	21-Jun-2024 17:23
Bromobenzene	50	U	40	50	100	ug/L	100	21-Jun-2024 17:23
Bromochloromethane	50	U	20	50	100	ug/L	100	21-Jun-2024 17:23
Bromodichloromethane	50	U	20	50	100	ug/L	100	21-Jun-2024 17:23
Bromoform	50	U	40	50	100	ug/L	100	21-Jun-2024 17:23
Bromomethane	50	U	40	50	100	ug/L	100	21-Jun-2024 17:23
Carbon disulfide	200	U	60	200	200	ug/L	100	21-Jun-2024 17:23
Carbon tetrachloride	100	U	50	100	100	ug/L	100	21-Jun-2024 17:23
Chlorobenzene	50	U	30	50	100	ug/L	100	21-Jun-2024 17:23
Chloroethane	50	U	30	50	100	ug/L	100	21-Jun-2024 17:23
Chloroform	50	U	20	50	100	ug/L	100	21-Jun-2024 17:23

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: 1824DPTMW05_061024
Collection Date: 10-Jun-2024 07:35

ANALYTICAL REPORT
WorkOrder:HS24060747
Lab ID:HS24060747-01
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: TS
Chloromethane	50	U	20	50	100	ug/L	100	21-Jun-2024 17:23
cis-1,2-Dichloroethene	50	U	20	50	100	ug/L	100	21-Jun-2024 17:23
cis-1,3-Dichloropropene	50	U	20	50	100	ug/L	100	21-Jun-2024 17:23
Dibromochloromethane	50	U	30	50	100	ug/L	100	21-Jun-2024 17:23
Dibromomethane	50	U	20	50	100	ug/L	100	21-Jun-2024 17:23
Dichlorodifluoromethane	50	U	30	50	100	ug/L	100	21-Jun-2024 17:23
Ethylbenzene	50	U	30	50	100	ug/L	100	21-Jun-2024 17:23
Hexachlorobutadiene	200	U	100	200	200	ug/L	100	21-Jun-2024 17:23
Isopropylbenzene	50	U	30	50	100	ug/L	100	21-Jun-2024 17:23
m,p-Xylene	100	U	50	100	200	ug/L	100	21-Jun-2024 17:23
Methylene chloride	100	U	40	100	200	ug/L	100	21-Jun-2024 17:23
n-Butylbenzene	100	U	40	100	100	ug/L	100	21-Jun-2024 17:23
n-Propylbenzene	50	U	30	50	100	ug/L	100	21-Jun-2024 17:23
Naphthalene	50	U	30	50	100	ug/L	100	21-Jun-2024 17:23
o-Xylene	50	U	30	50	100	ug/L	100	21-Jun-2024 17:23
sec-Butylbenzene	50	U	30	50	100	ug/L	100	21-Jun-2024 17:23
Styrene	50	U	30	50	100	ug/L	100	21-Jun-2024 17:23
tert-Butylbenzene	50	U	30	50	100	ug/L	100	21-Jun-2024 17:23
Tetrachloroethene	50	U	30	50	100	ug/L	100	21-Jun-2024 17:23
Toluene	50	U	20	50	100	ug/L	100	21-Jun-2024 17:23
trans-1,2-Dichloroethene	50	U	20	50	100	ug/L	100	21-Jun-2024 17:23
trans-1,3-Dichloropropene	50	U	20	50	100	ug/L	100	21-Jun-2024 17:23
Trichloroethene	**3,500**		**20**	**50**	**100**	**ug/L**	100	21-Jun-2024 17:23
Trichlorofluoromethane	50	U	30	50	100	ug/L	100	21-Jun-2024 17:23
Vinyl chloride	50	U	20	50	100	ug/L	100	21-Jun-2024 17:23
Surr: 1,2-Dichloroethane-d4	*104*			**0**	*81-118*	*%REC*	*100*	*21-Jun-2024 17:23*
Surr: 4-Bromofluorobenzene	*101*			**0**	*85-114*	*%REC*	*100*	*21-Jun-2024 17:23*
Surr: Dibromofluoromethane	*107*			**0**	*80-119*	*%REC*	*100*	*21-Jun-2024 17:23*
Surr: Toluene-d8	*109*			**0**	*89-112*	*%REC*	*100*	*21-Jun-2024 17:23*
SEMIVOLATILES SIM		**Method:SW8270SIM**				Prep:SW3510 / 13-Jun-2024		Analyst: IT
1,4-Dioxane	**8.4**		**0.50**	**1.0**	**1.5**	**ug/L**	50	26-Jun-2024 20:14
Surr: 2-Fluorobiphenyl	*0*	*S*		0	*40-140*	*%REC*	*50*	*26-Jun-2024 20:14*
Surr: 4-Terphenyl-d14	*0*	*S*		0	*40-140*	*%REC*	*50*	*26-Jun-2024 20:14*
Surr: Nitrobenzene-d5	*0*	*S*		0	*40-140*	*%REC*	*50*	*26-Jun-2024 20:14*
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	25-Jun-2024 16:18

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: 1824DPTMW05_061024_a
Collection Date: 10-Jun-2024 07:35

ANALYTICAL REPORT
WorkOrder:HS24060747
Lab ID:HS24060747-02
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	50	U	30	50	100	ug/L	100	21-Jun-2024 17:45
1,1,1-Trichloroethane	50	U	20	50	100	ug/L	100	21-Jun-2024 17:45
1,1,2,2-Tetrachloroethane	100	U	50	100	100	ug/L	100	21-Jun-2024 17:45
1,1,2-Trichloroethane	50	U	30	50	100	ug/L	100	21-Jun-2024 17:45
1,1-Dichloroethane	50	U	20	50	100	ug/L	100	21-Jun-2024 17:45
1,1-Dichloroethene	50	U	20	50	100	ug/L	100	21-Jun-2024 17:45
1,1-Dichloropropene	50	U	30	50	100	ug/L	100	21-Jun-2024 17:45
1,2,3-Trichlorobenzene	100	U	40	100	100	ug/L	100	21-Jun-2024 17:45
1,2,3-Trichloropropane	100	U	50	100	100	ug/L	100	21-Jun-2024 17:45
1,2,4-Trichlorobenzene	100	U	50	100	100	ug/L	100	21-Jun-2024 17:45
1,2,4-Trimethylbenzene	50	U	30	50	100	ug/L	100	21-Jun-2024 17:45
1,2-Dibromo-3-chloropropane	50	U	20	50	100	ug/L	100	21-Jun-2024 17:45
1,2-Dibromoethane	50	U	20	50	100	ug/L	100	21-Jun-2024 17:45
1,2-Dichlorobenzene	100	U	50	100	100	ug/L	100	21-Jun-2024 17:45
1,2-Dichloroethane	50	U	20	50	100	ug/L	100	21-Jun-2024 17:45
1,2-Dichloropropane	100	U	50	100	100	ug/L	100	21-Jun-2024 17:45
1,3,5-Trimethylbenzene	50	U	30	50	100	ug/L	100	21-Jun-2024 17:45
1,3-Dichlorobenzene	50	U	40	50	100	ug/L	100	21-Jun-2024 17:45
1,3-Dichloropropane	50	U	30	50	100	ug/L	100	21-Jun-2024 17:45
1,4-Dichlorobenzene	50	U	40	50	100	ug/L	100	21-Jun-2024 17:45
2,2-Dichloropropane	50	U	20	50	100	ug/L	100	21-Jun-2024 17:45
2-Butanone	100	U	50	100	200	ug/L	100	21-Jun-2024 17:45
2-Chlorotoluene	50	U	30	50	100	ug/L	100	21-Jun-2024 17:45
2-Hexanone	200	U	100	200	200	ug/L	100	21-Jun-2024 17:45
4-Chlorotoluene	50	U	40	50	100	ug/L	100	21-Jun-2024 17:45
4-Isopropyltoluene	50	U	30	50	100	ug/L	100	21-Jun-2024 17:45
4-Methyl-2-pentanone	100	U	70	100	200	ug/L	100	21-Jun-2024 17:45
Acetone	50	U	40	50	200	ug/L	100	21-Jun-2024 17:45
Benzene	50	U	20	50	100	ug/L	100	21-Jun-2024 17:45
Bromobenzene	50	U	40	50	100	ug/L	100	21-Jun-2024 17:45
Bromochloromethane	50	U	20	50	100	ug/L	100	21-Jun-2024 17:45
Bromodichloromethane	50	U	20	50	100	ug/L	100	21-Jun-2024 17:45
Bromoform	50	U	40	50	100	ug/L	100	21-Jun-2024 17:45
Bromomethane	50	U	40	50	100	ug/L	100	21-Jun-2024 17:45
Carbon disulfide	200	U	60	200	200	ug/L	100	21-Jun-2024 17:45
Carbon tetrachloride	100	U	50	100	100	ug/L	100	21-Jun-2024 17:45
Chlorobenzene	50	U	30	50	100	ug/L	100	21-Jun-2024 17:45
Chloroethane	50	U	30	50	100	ug/L	100	21-Jun-2024 17:45
Chloroform	50	U	20	50	100	ug/L	100	21-Jun-2024 17:45

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: 1824DPTMW05_061024_a
Collection Date: 10-Jun-2024 07:35

ANALYTICAL REPORT
WorkOrder:HS24060747
Lab ID:HS24060747-02
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: TS
Chloromethane	50	U	20	50	100	ug/L	100	21-Jun-2024 17:45
cis-1,2-Dichloroethene	50	U	20	50	100	ug/L	100	21-Jun-2024 17:45
cis-1,3-Dichloropropene	50	U	20	50	100	ug/L	100	21-Jun-2024 17:45
Dibromochloromethane	50	U	30	50	100	ug/L	100	21-Jun-2024 17:45
Dibromomethane	50	U	20	50	100	ug/L	100	21-Jun-2024 17:45
Dichlorodifluoromethane	50	U	30	50	100	ug/L	100	21-Jun-2024 17:45
Ethylbenzene	50	U	30	50	100	ug/L	100	21-Jun-2024 17:45
Hexachlorobutadiene	200	U	100	200	200	ug/L	100	21-Jun-2024 17:45
Isopropylbenzene	50	U	30	50	100	ug/L	100	21-Jun-2024 17:45
m,p-Xylene	100	U	50	100	200	ug/L	100	21-Jun-2024 17:45
Methylene chloride	100	U	40	100	200	ug/L	100	21-Jun-2024 17:45
n-Butylbenzene	100	U	40	100	100	ug/L	100	21-Jun-2024 17:45
n-Propylbenzene	50	U	30	50	100	ug/L	100	21-Jun-2024 17:45
Naphthalene	50	U	30	50	100	ug/L	100	21-Jun-2024 17:45
o-Xylene	50	U	30	50	100	ug/L	100	21-Jun-2024 17:45
sec-Butylbenzene	50	U	30	50	100	ug/L	100	21-Jun-2024 17:45
Styrene	50	U	30	50	100	ug/L	100	21-Jun-2024 17:45
tert-Butylbenzene	50	U	30	50	100	ug/L	100	21-Jun-2024 17:45
Tetrachloroethene	50	U	30	50	100	ug/L	100	21-Jun-2024 17:45
Toluene	50	U	20	50	100	ug/L	100	21-Jun-2024 17:45
trans-1,2-Dichloroethene	50	U	20	50	100	ug/L	100	21-Jun-2024 17:45
trans-1,3-Dichloropropene	50	U	20	50	100	ug/L	100	21-Jun-2024 17:45
Trichloroethene	**3,200**		**20**	**50**	**100**	**ug/L**	100	21-Jun-2024 17:45
Trichlorofluoromethane	50	U	30	50	100	ug/L	100	21-Jun-2024 17:45
Vinyl chloride	50	U	20	50	100	ug/L	100	21-Jun-2024 17:45
Surr: 1,2-Dichloroethane-d4	*102*			**0**	*81-118*	*%REC*	*100*	*21-Jun-2024 17:45*
Surr: 4-Bromofluorobenzene	*99.9*			**0**	*85-114*	*%REC*	*100*	*21-Jun-2024 17:45*
Surr: Dibromofluoromethane	*107*			**0**	*80-119*	*%REC*	*100*	*21-Jun-2024 17:45*
Surr: Toluene-d8	*110*			**0**	*89-112*	*%REC*	*100*	*21-Jun-2024 17:45*
SEMIVOLATILES SIM		**Method:SW8270SIM**				Prep:SW3510 / 13-Jun-2024		Analyst: IT
1,4-Dioxane	**9.3**		**0.50**	**1.0**	**1.5**	**ug/L**	50	26-Jun-2024 20:32
Surr: 2-Fluorobiphenyl	*0*	*S*		0	*40-140*	*%REC*	*50*	*26-Jun-2024 20:32*
Surr: 4-Terphenyl-d14	*0*	*S*		0	*40-140*	*%REC*	*50*	*26-Jun-2024 20:32*
Surr: Nitrobenzene-d5	*0*	*S*		0	*40-140*	*%REC*	*50*	*26-Jun-2024 20:32*
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	25-Jun-2024 16:18

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: 129_061024
Collection Date: 10-Jun-2024 08:25

ANALYTICAL REPORT
WorkOrder:HS24060747
Lab ID:HS24060747-03
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	3.0	5.0	10	ug/L	10	21-Jun-2024 17:02
1,1,1-Trichloroethane	5.0	U	2.0	5.0	10	ug/L	10	21-Jun-2024 17:02
1,1,2,2-Tetrachloroethane	10	U	5.0	10	10	ug/L	10	21-Jun-2024 17:02
1,1,2-Trichloroethane	5.0	U	3.0	5.0	10	ug/L	10	21-Jun-2024 17:02
1,1-Dichloroethane	5.0	U	2.0	5.0	10	ug/L	10	21-Jun-2024 17:02
1,1-Dichloroethene	5.0	U	2.0	5.0	10	ug/L	10	21-Jun-2024 17:02
1,1-Dichloropropene	5.0	U	3.0	5.0	10	ug/L	10	21-Jun-2024 17:02
1,2,3-Trichlorobenzene	5.0	U	4.0	5.0	10	ug/L	10	21-Jun-2024 17:02
1,2,3-Trichloropropane	10	U	5.0	10	10	ug/L	10	21-Jun-2024 17:02
1,2,4-Trichlorobenzene	10	U	5.0	10	10	ug/L	10	21-Jun-2024 17:02
1,2,4-Trimethylbenzene	5.0	U	3.0	5.0	10	ug/L	10	21-Jun-2024 17:02
1,2-Dibromo-3-chloropropane	5.0	U	2.0	5.0	10	ug/L	10	21-Jun-2024 17:02
1,2-Dibromoethane	5.0	U	2.0	5.0	10	ug/L	10	21-Jun-2024 17:02
1,2-Dichlorobenzene	10	U	5.0	10	10	ug/L	10	21-Jun-2024 17:02
1,2-Dichloroethane	5.0	U	2.0	5.0	10	ug/L	10	21-Jun-2024 17:02
1,2-Dichloropropane	10	U	5.0	10	10	ug/L	10	21-Jun-2024 17:02
1,3,5-Trimethylbenzene	5.0	U	3.0	5.0	10	ug/L	10	21-Jun-2024 17:02
1,3-Dichlorobenzene	5.0	U	4.0	5.0	10	ug/L	10	21-Jun-2024 17:02
1,3-Dichloropropane	5.0	U	3.0	5.0	10	ug/L	10	21-Jun-2024 17:02
1,4-Dichlorobenzene	5.0	U	4.0	5.0	10	ug/L	10	21-Jun-2024 17:02
2,2-Dichloropropane	5.0	U	2.0	5.0	10	ug/L	10	21-Jun-2024 17:02
2-Butanone	10	U	5.0	10	20	ug/L	10	21-Jun-2024 17:02
2-Chlorotoluene	5.0	U	3.0	5.0	10	ug/L	10	21-Jun-2024 17:02
2-Hexanone	20	U	10	20	20	ug/L	10	21-Jun-2024 17:02
4-Chlorotoluene	5.0	U	4.0	5.0	10	ug/L	10	21-Jun-2024 17:02
4-Isopropyltoluene	5.0	U	3.0	5.0	10	ug/L	10	21-Jun-2024 17:02
4-Methyl-2-pentanone	10	U	7.0	10	20	ug/L	10	21-Jun-2024 17:02
Acetone	5.0	U	4.0	5.0	20	ug/L	10	21-Jun-2024 17:02
Benzene	5.0	U	2.0	5.0	10	ug/L	10	21-Jun-2024 17:02
Bromobenzene	5.0	U	4.0	5.0	10	ug/L	10	21-Jun-2024 17:02
Bromochloromethane	5.0	U	2.0	5.0	10	ug/L	10	21-Jun-2024 17:02
Bromodichloromethane	5.0	U	2.0	5.0	10	ug/L	10	21-Jun-2024 17:02
Bromoform	5.0	U	4.0	5.0	10	ug/L	10	21-Jun-2024 17:02
Bromomethane	5.0	U	4.0	5.0	10	ug/L	10	21-Jun-2024 17:02
Carbon disulfide	20	U	6.0	20	20	ug/L	10	21-Jun-2024 17:02
Carbon tetrachloride	10	U	5.0	10	10	ug/L	10	21-Jun-2024 17:02
Chlorobenzene	5.0	U	3.0	5.0	10	ug/L	10	21-Jun-2024 17:02
Chloroethane	5.0	U	3.0	5.0	10	ug/L	10	21-Jun-2024 17:02
Chloroform	5.0	U	2.0	5.0	10	ug/L	10	21-Jun-2024 17:02

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: 129_061024
Collection Date: 10-Jun-2024 08:25

ANALYTICAL REPORT
WorkOrder:HS24060747
Lab ID:HS24060747-03
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	2.0	5.0	10	ug/L	10	21-Jun-2024 17:02
cis-1,2-Dichloroethene	**5.3**	J	**2.0**	**5.0**	**10**	**ug/L**	10	21-Jun-2024 17:02
cis-1,3-Dichloropropene	5.0	U	2.0	5.0	10	ug/L	10	21-Jun-2024 17:02
Dibromochloromethane	5.0	U	3.0	5.0	10	ug/L	10	21-Jun-2024 17:02
Dibromomethane	5.0	U	2.0	5.0	10	ug/L	10	21-Jun-2024 17:02
Dichlorodifluoromethane	5.0	U	3.0	5.0	10	ug/L	10	21-Jun-2024 17:02
Ethylbenzene	5.0	U	3.0	5.0	10	ug/L	10	21-Jun-2024 17:02
Hexachlorobutadiene	20	U	10	20	20	ug/L	10	21-Jun-2024 17:02
Isopropylbenzene	5.0	U	3.0	5.0	10	ug/L	10	21-Jun-2024 17:02
m,p-Xylene	10	U	5.0	10	20	ug/L	10	21-Jun-2024 17:02
Methylene chloride	10	U	4.0	10	20	ug/L	10	21-Jun-2024 17:02
n-Butylbenzene	10	U	4.0	10	10	ug/L	10	21-Jun-2024 17:02
n-Propylbenzene	5.0	U	3.0	5.0	10	ug/L	10	21-Jun-2024 17:02
Naphthalene	5.0	U	3.0	5.0	10	ug/L	10	21-Jun-2024 17:02
o-Xylene	5.0	U	3.0	5.0	10	ug/L	10	21-Jun-2024 17:02
sec-Butylbenzene	5.0	U	3.0	5.0	10	ug/L	10	21-Jun-2024 17:02
Styrene	5.0	U	3.0	5.0	10	ug/L	10	21-Jun-2024 17:02
tert-Butylbenzene	5.0	U	3.0	5.0	10	ug/L	10	21-Jun-2024 17:02
Tetrachloroethene	5.0	U	3.0	5.0	10	ug/L	10	21-Jun-2024 17:02
Toluene	5.0	U	2.0	5.0	10	ug/L	10	21-Jun-2024 17:02
trans-1,2-Dichloroethene	5.0	U	2.0	5.0	10	ug/L	10	21-Jun-2024 17:02
trans-1,3-Dichloropropene	5.0	U	2.0	5.0	10	ug/L	10	21-Jun-2024 17:02
Trichloroethene	**740**		**2.0**	**5.0**	**10**	**ug/L**	10	21-Jun-2024 17:02
Trichlorofluoromethane	5.0	U	3.0	5.0	10	ug/L	10	21-Jun-2024 17:02
Vinyl chloride	5.0	U	2.0	5.0	10	ug/L	10	21-Jun-2024 17:02
Surr: 1,2-Dichloroethane-d4	*96.8*			**0**	*81-118*	*%REC*	*10*	*21-Jun-2024 17:02*
Surr: 4-Bromofluorobenzene	*94.8*			**0**	*85-114*	*%REC*	*10*	*21-Jun-2024 17:02*
Surr: Dibromofluoromethane	*96.2*			**0**	*80-119*	*%REC*	*10*	*21-Jun-2024 17:02*
Surr: Toluene-d8	*103*			**0**	*89-112*	*%REC*	*10*	*21-Jun-2024 17:02*
SEMIVOLATILES SIM		**Method:SW8270SIM**				Prep:SW3510 / 13-Jun-2024		Analyst: IT
1,4-Dioxane	**0.26**		**0.010**	**0.020**	**0.030**	**ug/L**	1	22-Jun-2024 16:22
Surr: 2-Fluorobiphenyl	*92.9*			**0**	*40-140*	*%REC*	*1*	*22-Jun-2024 16:22*
Surr: 4-Terphenyl-d14	*98.4*			**0**	*40-140*	*%REC*	*1*	*22-Jun-2024 16:22*
Surr: Nitrobenzene-d5	*84.7*			**0**	*40-140*	*%REC*	*1*	*22-Jun-2024 16:22*

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: 129_061024
Collection Date: 10-Jun-2024 08:25

ANALYTICAL REPORT
WorkOrder:HS24060747
Lab ID:HS24060747-03
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS BY ICPMS BY SW6020A		**Method:SW6020A**				Prep:SW3010A / 19-Jun-2024		Analyst: JC
Aluminum	**0.190**		**0.00180**	**0.00500**	**0.0100**	**mg/L**	1	25-Jun-2024 17:23
Antimony	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	25-Jun-2024 17:23
Arsenic	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	25-Jun-2024 17:23
Barium	**0.104**		**0.00190**	**0.00250**	**0.00500**	**mg/L**	1	25-Jun-2024 17:23
Beryllium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	25-Jun-2024 17:23
Cadmium	**0.000202**	J	**0.000200**	**0.000500**	**0.00200**	**mg/L**	1	25-Jun-2024 17:23
Calcium	**4.23**		**0.0340**	**0.0500**	**0.500**	**mg/L**	1	25-Jun-2024 17:23
Chromium	**0.00137**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	25-Jun-2024 17:23
Cobalt	**0.00338**	J	**0.000100**	**0.000500**	**0.00500**	**mg/L**	1	25-Jun-2024 17:23
Copper	**0.00217**	J	**0.00100**	**0.00200**	**0.00500**	**mg/L**	1	25-Jun-2024 17:23
Iron	**0.198**	J	**0.0120**	**0.0500**	**0.200**	**mg/L**	1	25-Jun-2024 17:23
Lead	**0.000717**	J	**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	25-Jun-2024 17:23
Magnesium	**2.76**		**0.0100**	**0.0500**	**0.200**	**mg/L**	1	25-Jun-2024 17:23
Manganese	**0.0950**		**0.000700**	**0.00250**	**0.00500**	**mg/L**	1	25-Jun-2024 17:23
Nickel	**0.00409**	J	**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	25-Jun-2024 17:23
Potassium	**0.232**		**0.0180**	**0.0500**	**0.200**	**mg/L**	1	25-Jun-2024 17:23
Selenium	0.00125	U	0.00110	0.00125	0.00500	mg/L	1	25-Jun-2024 17:23
Silver	0.000500	U	0.000200	0.000500	0.00500	mg/L	1	25-Jun-2024 17:23
Sodium	**61.6**		**0.0140**	**0.0500**	**0.200**	**mg/L**	1	25-Jun-2024 17:23
Thallium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	25-Jun-2024 17:23
Vanadium	**0.00163**	J	**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	25-Jun-2024 17:23
Zinc	**0.0128**		**0.00200**	**0.00250**	**0.00500**	**mg/L**	1	25-Jun-2024 17:23
MERCURY BY SW7470A		**Method:SW7470A**				Prep:SW7470A / 24-Jun-2024		Analyst: JS
Mercury	0.000100	U	0.0000300	0.000100	0.000200	mg/L	1	24-Jun-2024 15:05
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	25-Jun-2024 16:18

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: 120_061024
Collection Date: 10-Jun-2024 09:10

ANALYTICAL REPORT
WorkOrder:HS24060747
Lab ID:HS24060747-04
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	50	U	30	50	100	ug/L	100	21-Jun-2024 18:06
1,1,1-Trichloroethane	50	U	20	50	100	ug/L	100	21-Jun-2024 18:06
1,1,2,2-Tetrachloroethane	100	U	50	100	100	ug/L	100	21-Jun-2024 18:06
1,1,2-Trichloroethane	50	U	30	50	100	ug/L	100	21-Jun-2024 18:06
1,1-Dichloroethane	50	U	20	50	100	ug/L	100	21-Jun-2024 18:06
1,1-Dichloroethene	50	U	20	50	100	ug/L	100	21-Jun-2024 18:06
1,1-Dichloropropene	50	U	30	50	100	ug/L	100	21-Jun-2024 18:06
1,2,3-Trichlorobenzene	100	U	40	100	100	ug/L	100	21-Jun-2024 18:06
1,2,3-Trichloropropane	100	U	50	100	100	ug/L	100	21-Jun-2024 18:06
1,2,4-Trichlorobenzene	100	U	50	100	100	ug/L	100	21-Jun-2024 18:06
1,2,4-Trimethylbenzene	50	U	30	50	100	ug/L	100	21-Jun-2024 18:06
1,2-Dibromo-3-chloropropane	50	U	20	50	100	ug/L	100	21-Jun-2024 18:06
1,2-Dibromoethane	50	U	20	50	100	ug/L	100	21-Jun-2024 18:06
1,2-Dichlorobenzene	100	U	50	100	100	ug/L	100	21-Jun-2024 18:06
1,2-Dichloroethane	50	U	20	50	100	ug/L	100	21-Jun-2024 18:06
1,2-Dichloropropane	100	U	50	100	100	ug/L	100	21-Jun-2024 18:06
1,3,5-Trimethylbenzene	50	U	30	50	100	ug/L	100	21-Jun-2024 18:06
1,3-Dichlorobenzene	50	U	40	50	100	ug/L	100	21-Jun-2024 18:06
1,3-Dichloropropane	50	U	30	50	100	ug/L	100	21-Jun-2024 18:06
1,4-Dichlorobenzene	50	U	40	50	100	ug/L	100	21-Jun-2024 18:06
2,2-Dichloropropane	50	U	20	50	100	ug/L	100	21-Jun-2024 18:06
2-Butanone	100	U	50	100	200	ug/L	100	21-Jun-2024 18:06
2-Chlorotoluene	50	U	30	50	100	ug/L	100	21-Jun-2024 18:06
2-Hexanone	200	U	100	200	200	ug/L	100	21-Jun-2024 18:06
4-Chlorotoluene	50	U	40	50	100	ug/L	100	21-Jun-2024 18:06
4-Isopropyltoluene	50	U	30	50	100	ug/L	100	21-Jun-2024 18:06
4-Methyl-2-pentanone	100	U	70	100	200	ug/L	100	21-Jun-2024 18:06
Acetone	50	U	40	50	200	ug/L	100	21-Jun-2024 18:06
Benzene	50	U	20	50	100	ug/L	100	21-Jun-2024 18:06
Bromobenzene	50	U	40	50	100	ug/L	100	21-Jun-2024 18:06
Bromochloromethane	50	U	20	50	100	ug/L	100	21-Jun-2024 18:06
Bromodichloromethane	50	U	20	50	100	ug/L	100	21-Jun-2024 18:06
Bromoform	50	U	40	50	100	ug/L	100	21-Jun-2024 18:06
Bromomethane	50	U	40	50	100	ug/L	100	21-Jun-2024 18:06
Carbon disulfide	200	U	60	200	200	ug/L	100	21-Jun-2024 18:06
Carbon tetrachloride	100	U	50	100	100	ug/L	100	21-Jun-2024 18:06
Chlorobenzene	50	U	30	50	100	ug/L	100	21-Jun-2024 18:06
Chloroethane	50	U	30	50	100	ug/L	100	21-Jun-2024 18:06
Chloroform	50	U	20	50	100	ug/L	100	21-Jun-2024 18:06

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: 120_061024
Collection Date: 10-Jun-2024 09:10

ANALYTICAL REPORT
WorkOrder:HS24060747
Lab ID:HS24060747-04
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: TS
Chloromethane	50	U	20	50	100	ug/L	100	21-Jun-2024 18:06
cis-1,2-Dichloroethene	**820**		**20**	**50**	**100**	**ug/L**	100	21-Jun-2024 18:06
cis-1,3-Dichloropropene	50	U	20	50	100	ug/L	100	21-Jun-2024 18:06
Dibromochloromethane	50	U	30	50	100	ug/L	100	21-Jun-2024 18:06
Dibromomethane	50	U	20	50	100	ug/L	100	21-Jun-2024 18:06
Dichlorodifluoromethane	50	U	30	50	100	ug/L	100	21-Jun-2024 18:06
Ethylbenzene	50	U	30	50	100	ug/L	100	21-Jun-2024 18:06
Hexachlorobutadiene	200	U	100	200	200	ug/L	100	21-Jun-2024 18:06
Isopropylbenzene	50	U	30	50	100	ug/L	100	21-Jun-2024 18:06
m,p-Xylene	100	U	50	100	200	ug/L	100	21-Jun-2024 18:06
Methylene chloride	100	U	40	100	200	ug/L	100	21-Jun-2024 18:06
n-Butylbenzene	100	U	40	100	100	ug/L	100	21-Jun-2024 18:06
n-Propylbenzene	50	U	30	50	100	ug/L	100	21-Jun-2024 18:06
Naphthalene	50	U	30	50	100	ug/L	100	21-Jun-2024 18:06
o-Xylene	50	U	30	50	100	ug/L	100	21-Jun-2024 18:06
sec-Butylbenzene	50	U	30	50	100	ug/L	100	21-Jun-2024 18:06
Styrene	50	U	30	50	100	ug/L	100	21-Jun-2024 18:06
tert-Butylbenzene	50	U	30	50	100	ug/L	100	21-Jun-2024 18:06
Tetrachloroethene	50	U	30	50	100	ug/L	100	21-Jun-2024 18:06
Toluene	50	U	20	50	100	ug/L	100	21-Jun-2024 18:06
trans-1,2-Dichloroethene	50	U	20	50	100	ug/L	100	21-Jun-2024 18:06
trans-1,3-Dichloropropene	50	U	20	50	100	ug/L	100	21-Jun-2024 18:06
Trichloroethene	**5,700**		**20**	**50**	**100**	**ug/L**	100	21-Jun-2024 18:06
Trichlorofluoromethane	50	U	30	50	100	ug/L	100	21-Jun-2024 18:06
Vinyl chloride	50	U	20	50	100	ug/L	100	21-Jun-2024 18:06
Surr: 1,2-Dichloroethane-d4	*102*			**0**	*81-118*	*%REC*	*100*	*21-Jun-2024 18:06*
Surr: 4-Bromofluorobenzene	*101*			**0**	*85-114*	*%REC*	*100*	*21-Jun-2024 18:06*
Surr: Dibromofluoromethane	*107*			**0**	*80-119*	*%REC*	*100*	*21-Jun-2024 18:06*
Surr: Toluene-d8	*110*			**0**	*89-112*	*%REC*	*100*	*21-Jun-2024 18:06*
SEMIVOLATILES SIM		**Method:SW8270SIM**				Prep:SW3510 / 13-Jun-2024		Analyst: IT
1,4-Dioxane	**5.3**		**0.20**	**0.40**	**0.60**	**ug/L**	20	26-Jun-2024 20:49
Surr: 2-Fluorobiphenyl	*0*	*S*		0	*40-140*	*%REC*	*20*	*26-Jun-2024 20:49*
Surr: 4-Terphenyl-d14	*0*	*S*		0	*40-140*	*%REC*	*20*	*26-Jun-2024 20:49*
Surr: Nitrobenzene-d5	*0*	*S*		0	*40-140*	*%REC*	*20*	*26-Jun-2024 20:49*
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	25-Jun-2024 16:18

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: MW14_061024
Collection Date: 10-Jun-2024 09:55

ANALYTICAL REPORT
WorkOrder:HS24060747
Lab ID:HS24060747-05
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	250	U	150	250	500	ug/L	500	21-Jun-2024 18:28
1,1,1-Trichloroethane	250	U	100	250	500	ug/L	500	21-Jun-2024 18:28
1,1,2,2-Tetrachloroethane	500	U	250	500	500	ug/L	500	21-Jun-2024 18:28
1,1,2-Trichloroethane	250	U	150	250	500	ug/L	500	21-Jun-2024 18:28
1,1-Dichloroethane	250	U	100	250	500	ug/L	500	21-Jun-2024 18:28
1,1-Dichloroethene	250	U	100	250	500	ug/L	500	21-Jun-2024 18:28
1,1-Dichloropropene	250	U	150	250	500	ug/L	500	21-Jun-2024 18:28
1,2,3-Trichlorobenzene	250	U	200	250	500	ug/L	500	21-Jun-2024 18:28
1,2,3-Trichloropropane	500	U	250	500	500	ug/L	500	21-Jun-2024 18:28
1,2,4-Trichlorobenzene	500	U	250	500	500	ug/L	500	21-Jun-2024 18:28
1,2,4-Trimethylbenzene	250	U	150	250	500	ug/L	500	21-Jun-2024 18:28
1,2-Dibromo-3-chloropropane	250	U	100	250	500	ug/L	500	21-Jun-2024 18:28
1,2-Dibromoethane	250	U	100	250	500	ug/L	500	21-Jun-2024 18:28
1,2-Dichlorobenzene	500	U	250	500	500	ug/L	500	21-Jun-2024 18:28
1,2-Dichloroethane	250	U	100	250	500	ug/L	500	21-Jun-2024 18:28
1,2-Dichloropropane	500	U	250	500	500	ug/L	500	21-Jun-2024 18:28
1,3,5-Trimethylbenzene	250	U	150	250	500	ug/L	500	21-Jun-2024 18:28
1,3-Dichlorobenzene	250	U	200	250	500	ug/L	500	21-Jun-2024 18:28
1,3-Dichloropropane	250	U	150	250	500	ug/L	500	21-Jun-2024 18:28
1,4-Dichlorobenzene	250	U	200	250	500	ug/L	500	21-Jun-2024 18:28
2,2-Dichloropropane	250	U	100	250	500	ug/L	500	21-Jun-2024 18:28
2-Butanone	500	U	250	500	1000	ug/L	500	21-Jun-2024 18:28
2-Chlorotoluene	250	U	150	250	500	ug/L	500	21-Jun-2024 18:28
2-Hexanone	1,000	U	500	1000	1000	ug/L	500	21-Jun-2024 18:28
4-Chlorotoluene	250	U	200	250	500	ug/L	500	21-Jun-2024 18:28
4-Isopropyltoluene	250	U	150	250	500	ug/L	500	21-Jun-2024 18:28
4-Methyl-2-pentanone	500	U	350	500	1000	ug/L	500	21-Jun-2024 18:28
Acetone	250	U	200	250	1000	ug/L	500	21-Jun-2024 18:28
Benzene	250	U	100	250	500	ug/L	500	21-Jun-2024 18:28
Bromobenzene	250	U	200	250	500	ug/L	500	21-Jun-2024 18:28
Bromochloromethane	250	U	100	250	500	ug/L	500	21-Jun-2024 18:28
Bromodichloromethane	250	U	100	250	500	ug/L	500	21-Jun-2024 18:28
Bromoform	250	U	200	250	500	ug/L	500	21-Jun-2024 18:28
Bromomethane	250	U	200	250	500	ug/L	500	21-Jun-2024 18:28
Carbon disulfide	1,000	U	300	1000	1000	ug/L	500	21-Jun-2024 18:28
Carbon tetrachloride	500	U	250	500	500	ug/L	500	21-Jun-2024 18:28
Chlorobenzene	250	U	150	250	500	ug/L	500	21-Jun-2024 18:28
Chloroethane	250	U	150	250	500	ug/L	500	21-Jun-2024 18:28
Chloroform	250	U	100	250	500	ug/L	500	21-Jun-2024 18:28

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: MW14_061024
Collection Date: 10-Jun-2024 09:55

ANALYTICAL REPORT
WorkOrder:HS24060747
Lab ID:HS24060747-05
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: TS
Chloromethane	250	U	100	250	500	ug/L	500	21-Jun-2024 18:28
cis-1,2-Dichloroethene	**2,800**		**100**	**250**	**500**	**ug/L**	500	21-Jun-2024 18:28
cis-1,3-Dichloropropene	250	U	100	250	500	ug/L	500	21-Jun-2024 18:28
Dibromochloromethane	250	U	150	250	500	ug/L	500	21-Jun-2024 18:28
Dibromomethane	250	U	100	250	500	ug/L	500	21-Jun-2024 18:28
Dichlorodifluoromethane	250	U	150	250	500	ug/L	500	21-Jun-2024 18:28
Ethylbenzene	250	U	150	250	500	ug/L	500	21-Jun-2024 18:28
Hexachlorobutadiene	1,000	U	500	1000	1000	ug/L	500	21-Jun-2024 18:28
Isopropylbenzene	250	U	150	250	500	ug/L	500	21-Jun-2024 18:28
m,p-Xylene	500	U	250	500	1000	ug/L	500	21-Jun-2024 18:28
Methylene chloride	500	U	200	500	1000	ug/L	500	21-Jun-2024 18:28
n-Butylbenzene	500	U	200	500	500	ug/L	500	21-Jun-2024 18:28
n-Propylbenzene	250	U	150	250	500	ug/L	500	21-Jun-2024 18:28
Naphthalene	250	U	150	250	500	ug/L	500	21-Jun-2024 18:28
o-Xylene	250	U	150	250	500	ug/L	500	21-Jun-2024 18:28
sec-Butylbenzene	250	U	150	250	500	ug/L	500	21-Jun-2024 18:28
Styrene	250	U	150	250	500	ug/L	500	21-Jun-2024 18:28
tert-Butylbenzene	250	U	150	250	500	ug/L	500	21-Jun-2024 18:28
Tetrachloroethene	250	U	150	250	500	ug/L	500	21-Jun-2024 18:28
Toluene	250	U	100	250	500	ug/L	500	21-Jun-2024 18:28
trans-1,2-Dichloroethene	250	U	100	250	500	ug/L	500	21-Jun-2024 18:28
trans-1,3-Dichloropropene	250	U	100	250	500	ug/L	500	21-Jun-2024 18:28
Trichloroethene	**18,000**		**100**	**250**	**500**	**ug/L**	500	21-Jun-2024 18:28
Trichlorofluoromethane	250	U	150	250	500	ug/L	500	21-Jun-2024 18:28
Vinyl chloride	250	U	100	250	500	ug/L	500	21-Jun-2024 18:28
Surr: 1,2-Dichloroethane-d4	*101*			**0**	*81-118*	*%REC*	*500*	*21-Jun-2024 18:28*
Surr: 4-Bromofluorobenzene	*99.7*			**0**	*85-114*	*%REC*	*500*	*21-Jun-2024 18:28*
Surr: Dibromofluoromethane	*105*			**0**	*80-119*	*%REC*	*500*	*21-Jun-2024 18:28*
Surr: Toluene-d8	*109*			**0**	*89-112*	*%REC*	*500*	*21-Jun-2024 18:28*
SEMIVOLATILES SIM		**Method:SW8270SIM**				Prep:SW3510 / 13-Jun-2024		Analyst: IT
1,4-Dioxane	**280**		**10**	**20**	**30**	**ug/L**	1000	26-Jun-2024 21:24
Surr: 2-Fluorobiphenyl	*0*	*S*		0	*40-140*	*%REC*	*1000*	*26-Jun-2024 21:24*
Surr: 4-Terphenyl-d14	*0*	*S*		0	*40-140*	*%REC*	*1000*	*26-Jun-2024 21:24*
Surr: Nitrobenzene-d5	*0*	*S*		0	*40-140*	*%REC*	*1000*	*26-Jun-2024 21:24*

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: MW14_061024
Collection Date: 10-Jun-2024 09:55

ANALYTICAL REPORT
WorkOrder:HS24060747
Lab ID:HS24060747-05
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS BY ICPMS BY SW6020A		**Method:SW6020A**				Prep:SW3010A / 19-Jun-2024		Analyst: JC
Aluminum	**0.102**		**0.00180**	**0.00500**	**0.0100**	**mg/L**	1	25-Jun-2024 17:26
Antimony	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	25-Jun-2024 17:26
Arsenic	**0.00216**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	25-Jun-2024 17:26
Barium	**0.260**		**0.00190**	**0.00250**	**0.00500**	**mg/L**	1	25-Jun-2024 17:26
Beryllium	**0.00142**	J	**0.000200**	**0.000500**	**0.00200**	**mg/L**	1	25-Jun-2024 17:26
Cadmium	**0.00103**	J	**0.000200**	**0.000500**	**0.00200**	**mg/L**	1	25-Jun-2024 17:26
Calcium	**133**		**0.0340**	**0.0500**	**0.500**	**mg/L**	1	25-Jun-2024 17:26
Chromium	**0.0316**		**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	25-Jun-2024 17:26
Cobalt	**0.0289**		**0.000100**	**0.000500**	**0.00500**	**mg/L**	1	25-Jun-2024 17:26
Copper	**0.00227**	J	**0.00100**	**0.00200**	**0.00500**	**mg/L**	1	25-Jun-2024 17:26
Iron	**137**		**0.0120**	**0.0500**	**0.200**	**mg/L**	1	25-Jun-2024 17:26
Lead	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	25-Jun-2024 17:26
Magnesium	**82.8**		**0.0100**	**0.0500**	**0.200**	**mg/L**	1	25-Jun-2024 17:26
Manganese	**6.66**		**0.0350**	**0.125**	**0.250**	**mg/L**	50	25-Jun-2024 19:03
Nickel	**0.0762**		**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	25-Jun-2024 17:26
Potassium	**13.6**		**0.0180**	**0.0500**	**0.200**	**mg/L**	1	25-Jun-2024 17:26
Selenium	0.00125	U	0.00110	0.00125	0.00500	mg/L	1	25-Jun-2024 17:26
Silver	0.000500	U	0.000200	0.000500	0.00500	mg/L	1	25-Jun-2024 17:26
Sodium	**627**		**0.700**	**2.50**	**10.0**	**mg/L**	50	25-Jun-2024 19:03
Thallium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	25-Jun-2024 17:26
Vanadium	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	25-Jun-2024 17:26
Zinc	**0.384**		**0.00200**	**0.00250**	**0.00500**	**mg/L**	1	25-Jun-2024 17:26
MERCURY BY SW7470A		**Method:SW7470A**				Prep:SW7470A / 24-Jun-2024		Analyst: JS
Mercury	0.000100	U	0.0000300	0.000100	0.000200	mg/L	1	24-Jun-2024 15:07
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	25-Jun-2024 16:18

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: MW23_061024
Collection Date: 10-Jun-2024 10:40

ANALYTICAL REPORT
WorkOrder:HS24060747
Lab ID:HS24060747-06
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	50	U	30	50	100	ug/L	100	21-Jun-2024 18:49
1,1,1-Trichloroethane	50	U	20	50	100	ug/L	100	21-Jun-2024 18:49
1,1,2,2-Tetrachloroethane	100	U	50	100	100	ug/L	100	21-Jun-2024 18:49
1,1,2-Trichloroethane	50	U	30	50	100	ug/L	100	21-Jun-2024 18:49
1,1-Dichloroethane	50	U	20	50	100	ug/L	100	21-Jun-2024 18:49
1,1-Dichloroethene	50	U	20	50	100	ug/L	100	21-Jun-2024 18:49
1,1-Dichloropropene	50	U	30	50	100	ug/L	100	21-Jun-2024 18:49
1,2,3-Trichlorobenzene	50	U	40	50	100	ug/L	100	21-Jun-2024 18:49
1,2,3-Trichloropropane	100	U	50	100	100	ug/L	100	21-Jun-2024 18:49
1,2,4-Trichlorobenzene	100	U	50	100	100	ug/L	100	21-Jun-2024 18:49
1,2,4-Trimethylbenzene	50	U	30	50	100	ug/L	100	21-Jun-2024 18:49
1,2-Dibromo-3-chloropropane	50	U	20	50	100	ug/L	100	21-Jun-2024 18:49
1,2-Dibromoethane	50	U	20	50	100	ug/L	100	21-Jun-2024 18:49
1,2-Dichlorobenzene	100	U	50	100	100	ug/L	100	21-Jun-2024 18:49
1,2-Dichloroethane	50	U	20	50	100	ug/L	100	21-Jun-2024 18:49
1,2-Dichloropropane	100	U	50	100	100	ug/L	100	21-Jun-2024 18:49
1,3,5-Trimethylbenzene	50	U	30	50	100	ug/L	100	21-Jun-2024 18:49
1,3-Dichlorobenzene	50	U	40	50	100	ug/L	100	21-Jun-2024 18:49
1,3-Dichloropropane	50	U	30	50	100	ug/L	100	21-Jun-2024 18:49
1,4-Dichlorobenzene	50	U	40	50	100	ug/L	100	21-Jun-2024 18:49
2,2-Dichloropropane	50	U	20	50	100	ug/L	100	21-Jun-2024 18:49
2-Butanone	100	U	50	100	200	ug/L	100	21-Jun-2024 18:49
2-Chlorotoluene	50	U	30	50	100	ug/L	100	21-Jun-2024 18:49
2-Hexanone	200	U	100	200	200	ug/L	100	21-Jun-2024 18:49
4-Chlorotoluene	50	U	40	50	100	ug/L	100	21-Jun-2024 18:49
4-Isopropyltoluene	50	U	30	50	100	ug/L	100	21-Jun-2024 18:49
4-Methyl-2-pentanone	100	U	70	100	200	ug/L	100	21-Jun-2024 18:49
Acetone	50	U	40	50	200	ug/L	100	21-Jun-2024 18:49
Benzene	50	U	20	50	100	ug/L	100	21-Jun-2024 18:49
Bromobenzene	50	U	40	50	100	ug/L	100	21-Jun-2024 18:49
Bromochloromethane	50	U	20	50	100	ug/L	100	21-Jun-2024 18:49
Bromodichloromethane	50	U	20	50	100	ug/L	100	21-Jun-2024 18:49
Bromoform	50	U	40	50	100	ug/L	100	21-Jun-2024 18:49
Bromomethane	50	U	40	50	100	ug/L	100	21-Jun-2024 18:49
Carbon disulfide	200	U	60	200	200	ug/L	100	21-Jun-2024 18:49
Carbon tetrachloride	100	U	50	100	100	ug/L	100	21-Jun-2024 18:49
Chlorobenzene	50	U	30	50	100	ug/L	100	21-Jun-2024 18:49
Chloroethane	50	U	30	50	100	ug/L	100	21-Jun-2024 18:49
Chloroform	50	U	20	50	100	ug/L	100	21-Jun-2024 18:49

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: MW23_061024
Collection Date: 10-Jun-2024 10:40

ANALYTICAL REPORT
WorkOrder:HS24060747
Lab ID:HS24060747-06
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: TS
Chloromethane	50	U	20	50	100	ug/L	100	21-Jun-2024 18:49
cis-1,2-Dichloroethene	50	U	20	50	100	ug/L	100	21-Jun-2024 18:49
cis-1,3-Dichloropropene	50	U	20	50	100	ug/L	100	21-Jun-2024 18:49
Dibromochloromethane	50	U	30	50	100	ug/L	100	21-Jun-2024 18:49
Dibromomethane	50	U	20	50	100	ug/L	100	21-Jun-2024 18:49
Dichlorodifluoromethane	50	U	30	50	100	ug/L	100	21-Jun-2024 18:49
Ethylbenzene	50	U	30	50	100	ug/L	100	21-Jun-2024 18:49
Hexachlorobutadiene	200	U	100	200	200	ug/L	100	21-Jun-2024 18:49
Isopropylbenzene	50	U	30	50	100	ug/L	100	21-Jun-2024 18:49
m,p-Xylene	100	U	50	100	200	ug/L	100	21-Jun-2024 18:49
Methylene chloride	100	U	40	100	200	ug/L	100	21-Jun-2024 18:49
n-Butylbenzene	100	U	40	100	100	ug/L	100	21-Jun-2024 18:49
n-Propylbenzene	50	U	30	50	100	ug/L	100	21-Jun-2024 18:49
Naphthalene	50	U	30	50	100	ug/L	100	21-Jun-2024 18:49
o-Xylene	50	U	30	50	100	ug/L	100	21-Jun-2024 18:49
sec-Butylbenzene	50	U	30	50	100	ug/L	100	21-Jun-2024 18:49
Styrene	50	U	30	50	100	ug/L	100	21-Jun-2024 18:49
tert-Butylbenzene	50	U	30	50	100	ug/L	100	21-Jun-2024 18:49
Tetrachloroethene	50	U	30	50	100	ug/L	100	21-Jun-2024 18:49
Toluene	50	U	20	50	100	ug/L	100	21-Jun-2024 18:49
trans-1,2-Dichloroethene	50	U	20	50	100	ug/L	100	21-Jun-2024 18:49
trans-1,3-Dichloropropene	50	U	20	50	100	ug/L	100	21-Jun-2024 18:49
Trichloroethene	**2,400**		**20**	**50**	**100**	**ug/L**	100	21-Jun-2024 18:49
Trichlorofluoromethane	50	U	30	50	100	ug/L	100	21-Jun-2024 18:49
Vinyl chloride	50	U	20	50	100	ug/L	100	21-Jun-2024 18:49
Surr: 1,2-Dichloroethane-d4	*103*			**0**	*81-118*	*%REC*	*100*	*21-Jun-2024 18:49*
Surr: 4-Bromofluorobenzene	*101*			**0**	*85-114*	*%REC*	*100*	*21-Jun-2024 18:49*
Surr: Dibromofluoromethane	*107*			**0**	*80-119*	*%REC*	*100*	*21-Jun-2024 18:49*
Surr: Toluene-d8	*110*			**0**	*89-112*	*%REC*	*100*	*21-Jun-2024 18:49*
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	25-Jun-2024 16:18

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: CO9_061024
Collection Date: 10-Jun-2024 11:25

ANALYTICAL REPORT
WorkOrder:HS24060747
Lab ID:HS24060747-07
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	0.50	U	0.30	0.50	1.0	ug/L	1	21-Jun-2024 16:16
1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	21-Jun-2024 16:16
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	21-Jun-2024 16:16
1,1,2-Trichloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	21-Jun-2024 16:16
1,1-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	21-Jun-2024 16:16
1,1-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	21-Jun-2024 16:16
1,1-Dichloropropene	0.50	U	0.30	0.50	1.0	ug/L	1	21-Jun-2024 16:16
1,2,3-Trichlorobenzene	**1.1**		**0.40**	**0.50**	**1.0**	**ug/L**	1	21-Jun-2024 16:16
1,2,3-Trichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	21-Jun-2024 16:16
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	21-Jun-2024 16:16
1,2,4-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	21-Jun-2024 16:16
1,2-Dibromo-3-chloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	21-Jun-2024 16:16
1,2-Dibromoethane	0.50	U	0.20	0.50	1.0	ug/L	1	21-Jun-2024 16:16
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	21-Jun-2024 16:16
1,2-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	21-Jun-2024 16:16
1,2-Dichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	21-Jun-2024 16:16
1,3,5-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	21-Jun-2024 16:16
1,3-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	21-Jun-2024 16:16
1,3-Dichloropropane	0.50	U	0.30	0.50	1.0	ug/L	1	21-Jun-2024 16:16
1,4-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	21-Jun-2024 16:16
2,2-Dichloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	21-Jun-2024 16:16
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	21-Jun-2024 16:16
2-Chlorotoluene	0.50	U	0.30	0.50	1.0	ug/L	1	21-Jun-2024 16:16
2-Hexanone	2.0	U	1.0	2.0	2.0	ug/L	1	21-Jun-2024 16:16
4-Chlorotoluene	0.50	U	0.40	0.50	1.0	ug/L	1	21-Jun-2024 16:16
4-Isopropyltoluene	0.50	U	0.30	0.50	1.0	ug/L	1	21-Jun-2024 16:16
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	21-Jun-2024 16:16
Acetone	0.50	U	0.40	0.50	2.0	ug/L	1	21-Jun-2024 16:16
Benzene	0.50	U	0.20	0.50	1.0	ug/L	1	21-Jun-2024 16:16
Bromobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	21-Jun-2024 16:16
Bromochloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	21-Jun-2024 16:16
Bromodichloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	21-Jun-2024 16:16
Bromoform	0.50	U	0.40	0.50	1.0	ug/L	1	21-Jun-2024 16:16
Bromomethane	0.50	U	0.40	0.50	1.0	ug/L	1	21-Jun-2024 16:16
Carbon disulfide	2.0	U	0.60	2.0	2.0	ug/L	1	21-Jun-2024 16:16
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	ug/L	1	21-Jun-2024 16:16
Chlorobenzene	0.50	U	0.30	0.50	1.0	ug/L	1	21-Jun-2024 16:16
Chloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	21-Jun-2024 16:16
Chloroform	0.50	U	0.20	0.50	1.0	ug/L	1	21-Jun-2024 16:16

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: CO9_061024
Collection Date: 10-Jun-2024 11:25

ANALYTICAL REPORT
WorkOrder:HS24060747
Lab ID:HS24060747-07
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
Chloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	21-Jun-2024 16:16
cis-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	21-Jun-2024 16:16
cis-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	21-Jun-2024 16:16
Dibromochloromethane	0.50	U	0.30	0.50	1.0	ug/L	1	21-Jun-2024 16:16
Dibromomethane	0.50	U	0.20	0.50	1.0	ug/L	1	21-Jun-2024 16:16
Dichlorodifluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	21-Jun-2024 16:16
Ethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	21-Jun-2024 16:16
Hexachlorobutadiene	2.0	U	1.0	2.0	2.0	ug/L	1	21-Jun-2024 16:16
Isopropylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	21-Jun-2024 16:16
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	21-Jun-2024 16:16
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	21-Jun-2024 16:16
n-Butylbenzene	1.0	U	0.40	1.0	1.0	ug/L	1	21-Jun-2024 16:16
n-Propylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	21-Jun-2024 16:16
Naphthalene	0.50	U	0.30	0.50	1.0	ug/L	1	21-Jun-2024 16:16
o-Xylene	0.50	U	0.30	0.50	1.0	ug/L	1	21-Jun-2024 16:16
sec-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	21-Jun-2024 16:16
Styrene	0.50	U	0.30	0.50	1.0	ug/L	1	21-Jun-2024 16:16
tert-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	21-Jun-2024 16:16
Tetrachloroethene	0.50	U	0.30	0.50	1.0	ug/L	1	21-Jun-2024 16:16
Toluene	0.50	U	0.20	0.50	1.0	ug/L	1	21-Jun-2024 16:16
trans-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	21-Jun-2024 16:16
trans-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	21-Jun-2024 16:16
Trichloroethene	**1.5**		**0.20**	**0.50**	**1.0**	**ug/L**	1	21-Jun-2024 16:16
Trichlorofluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	21-Jun-2024 16:16
Vinyl chloride	0.50	U	0.20	0.50	1.0	ug/L	1	21-Jun-2024 16:16
Surr: 1,2-Dichloroethane-d4	*103*			**0**	*81-118*	*%REC*	*1*	*21-Jun-2024 16:16*
Surr: 4-Bromofluorobenzene	*100*			**0**	*85-114*	*%REC*	*1*	*21-Jun-2024 16:16*
Surr: Dibromofluoromethane	*108*			**0**	*80-119*	*%REC*	*1*	*21-Jun-2024 16:16*
Surr: Toluene-d8	*110*			**0**	*89-112*	*%REC*	*1*	*21-Jun-2024 16:16*

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: CO9_061024
Collection Date: 10-Jun-2024 11:25

ANALYTICAL REPORT
WorkOrder:HS24060747
Lab ID:HS24060747-07
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS BY ICPMS BY SW6020A		**Method:SW6020A**				Prep:SW3010A / 19-Jun-2024		Analyst: JC
Aluminum	**0.0545**		**0.00180**	**0.00500**	**0.0100**	**mg/L**	1	25-Jun-2024 17:28
Antimony	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	25-Jun-2024 17:28
Arsenic	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	25-Jun-2024 17:28
Barium	**0.429**		**0.00190**	**0.00250**	**0.00500**	**mg/L**	1	25-Jun-2024 17:28
Beryllium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	25-Jun-2024 17:28
Cadmium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	25-Jun-2024 17:28
Calcium	**168**		**0.0340**	**0.0500**	**0.500**	**mg/L**	1	25-Jun-2024 17:28
Chromium	**0.00975**		**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	25-Jun-2024 17:28
Cobalt	**0.000671**	J	**0.000100**	**0.000500**	**0.00500**	**mg/L**	1	25-Jun-2024 17:28
Copper	0.00200	U	0.00100	0.00200	0.00500	mg/L	1	25-Jun-2024 17:28
Iron	**0.413**		**0.0120**	**0.0500**	**0.200**	**mg/L**	1	25-Jun-2024 17:28
Lead	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	25-Jun-2024 17:28
Magnesium	**76.8**		**0.0100**	**0.0500**	**0.200**	**mg/L**	1	25-Jun-2024 17:28
Manganese	**0.0473**		**0.000700**	**0.00250**	**0.00500**	**mg/L**	1	25-Jun-2024 17:28
Nickel	**0.0183**		**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	25-Jun-2024 17:28
Potassium	**0.828**		**0.0180**	**0.0500**	**0.200**	**mg/L**	1	25-Jun-2024 17:28
Selenium	0.00125	U	0.00110	0.00125	0.00500	mg/L	1	25-Jun-2024 17:28
Silver	0.000500	U	0.000200	0.000500	0.00500	mg/L	1	25-Jun-2024 17:28
Sodium	**327**		**0.280**	**1.00**	**4.00**	**mg/L**	20	25-Jun-2024 19:05
Thallium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	25-Jun-2024 17:28
Vanadium	**0.00150**	J	**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	25-Jun-2024 17:28
Zinc	**0.00959**		**0.00200**	**0.00250**	**0.00500**	**mg/L**	1	25-Jun-2024 17:28
MERCURY BY SW7470A		**Method:SW7470A**				Prep:SW7470A / 24-Jun-2024		Analyst: JS
Mercury	0.000100	U	0.0000300	0.000100	0.000200	mg/L	1	24-Jun-2024 15:08
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	25-Jun-2024 16:18

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: CO1_061024
Collection Date: 10-Jun-2024 12:15

ANALYTICAL REPORT
WorkOrder:HS24060747
Lab ID:HS24060747-08
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	0.50	U	0.30	0.50	1.0	ug/L	1	21-Jun-2024 15:12
1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	21-Jun-2024 15:12
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	21-Jun-2024 15:12
1,1,2-Trichloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	21-Jun-2024 15:12
1,1-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	21-Jun-2024 15:12
1,1-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	21-Jun-2024 15:12
1,1-Dichloropropene	0.50	U	0.30	0.50	1.0	ug/L	1	21-Jun-2024 15:12
1,2,3-Trichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	21-Jun-2024 15:12
1,2,3-Trichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	21-Jun-2024 15:12
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	21-Jun-2024 15:12
1,2,4-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	21-Jun-2024 15:12
1,2-Dibromo-3-chloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	21-Jun-2024 15:12
1,2-Dibromoethane	0.50	U	0.20	0.50	1.0	ug/L	1	21-Jun-2024 15:12
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	21-Jun-2024 15:12
1,2-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	21-Jun-2024 15:12
1,2-Dichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	21-Jun-2024 15:12
1,3,5-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	21-Jun-2024 15:12
1,3-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	21-Jun-2024 15:12
1,3-Dichloropropane	0.50	U	0.30	0.50	1.0	ug/L	1	21-Jun-2024 15:12
1,4-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	21-Jun-2024 15:12
2,2-Dichloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	21-Jun-2024 15:12
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	21-Jun-2024 15:12
2-Chlorotoluene	0.50	U	0.30	0.50	1.0	ug/L	1	21-Jun-2024 15:12
2-Hexanone	2.0	U	1.0	2.0	2.0	ug/L	1	21-Jun-2024 15:12
4-Chlorotoluene	0.50	U	0.40	0.50	1.0	ug/L	1	21-Jun-2024 15:12
4-Isopropyltoluene	0.50	U	0.30	0.50	1.0	ug/L	1	21-Jun-2024 15:12
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	21-Jun-2024 15:12
Acetone	0.50	U	0.40	0.50	2.0	ug/L	1	21-Jun-2024 15:12
Benzene	0.50	U	0.20	0.50	1.0	ug/L	1	21-Jun-2024 15:12
Bromobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	21-Jun-2024 15:12
Bromochloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	21-Jun-2024 15:12
Bromodichloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	21-Jun-2024 15:12
Bromoform	0.50	U	0.40	0.50	1.0	ug/L	1	21-Jun-2024 15:12
Bromomethane	0.50	U	0.40	0.50	1.0	ug/L	1	21-Jun-2024 15:12
Carbon disulfide	2.0	U	0.60	2.0	2.0	ug/L	1	21-Jun-2024 15:12
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	ug/L	1	21-Jun-2024 15:12
Chlorobenzene	0.50	U	0.30	0.50	1.0	ug/L	1	21-Jun-2024 15:12
Chloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	21-Jun-2024 15:12
Chloroform	0.50	U	0.20	0.50	1.0	ug/L	1	21-Jun-2024 15:12

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: CO1_061024
Collection Date: 10-Jun-2024 12:15

ANALYTICAL REPORT
WorkOrder:HS24060747
Lab ID:HS24060747-08
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: TS
Chloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	21-Jun-2024 15:12
cis-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	21-Jun-2024 15:12
cis-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	21-Jun-2024 15:12
Dibromochloromethane	0.50	U	0.30	0.50	1.0	ug/L	1	21-Jun-2024 15:12
Dibromomethane	0.50	U	0.20	0.50	1.0	ug/L	1	21-Jun-2024 15:12
Dichlorodifluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	21-Jun-2024 15:12
Ethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	21-Jun-2024 15:12
Hexachlorobutadiene	2.0	U	1.0	2.0	2.0	ug/L	1	21-Jun-2024 15:12
Isopropylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	21-Jun-2024 15:12
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	21-Jun-2024 15:12
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	21-Jun-2024 15:12
n-Butylbenzene	1.0	U	0.40	1.0	1.0	ug/L	1	21-Jun-2024 15:12
n-Propylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	21-Jun-2024 15:12
Naphthalene	0.50	U	0.30	0.50	1.0	ug/L	1	21-Jun-2024 15:12
o-Xylene	0.50	U	0.30	0.50	1.0	ug/L	1	21-Jun-2024 15:12
sec-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	21-Jun-2024 15:12
Styrene	0.50	U	0.30	0.50	1.0	ug/L	1	21-Jun-2024 15:12
tert-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	21-Jun-2024 15:12
Tetrachloroethene	0.50	U	0.30	0.50	1.0	ug/L	1	21-Jun-2024 15:12
Toluene	0.50	U	0.20	0.50	1.0	ug/L	1	21-Jun-2024 15:12
trans-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	21-Jun-2024 15:12
trans-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	21-Jun-2024 15:12
Trichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	21-Jun-2024 15:12
Trichlorofluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	21-Jun-2024 15:12
Vinyl chloride	0.50	U	0.20	0.50	1.0	ug/L	1	21-Jun-2024 15:12
Surr: 1,2-Dichloroethane-d4	*103*			**0**	*81-118*	*%REC*	*1*	*21-Jun-2024 15:12*
Surr: 4-Bromofluorobenzene	*102*			**0**	*85-114*	*%REC*	*1*	*21-Jun-2024 15:12*
Surr: Dibromofluoromethane	*106*			**0**	*80-119*	*%REC*	*1*	*21-Jun-2024 15:12*
Surr: Toluene-d8	*111*			**0**	*89-112*	*%REC*	*1*	*21-Jun-2024 15:12*
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	25-Jun-2024 16:18

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: 126_061024
Collection Date: 10-Jun-2024 13:00

ANALYTICAL REPORT
WorkOrder:HS24060747
Lab ID:HS24060747-09
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	0.50	U	0.30	0.50	1.0	ug/L	1	21-Jun-2024 16:38
1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	21-Jun-2024 16:38
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	21-Jun-2024 16:38
1,1,2-Trichloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	21-Jun-2024 16:38
1,1-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	21-Jun-2024 16:38
1,1-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	21-Jun-2024 16:38
1,1-Dichloropropene	0.50	U	0.30	0.50	1.0	ug/L	1	21-Jun-2024 16:38
1,2,3-Trichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	21-Jun-2024 16:38
1,2,3-Trichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	21-Jun-2024 16:38
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	21-Jun-2024 16:38
1,2,4-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	21-Jun-2024 16:38
1,2-Dibromo-3-chloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	21-Jun-2024 16:38
1,2-Dibromoethane	0.50	U	0.20	0.50	1.0	ug/L	1	21-Jun-2024 16:38
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	21-Jun-2024 16:38
1,2-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	21-Jun-2024 16:38
1,2-Dichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	21-Jun-2024 16:38
1,3,5-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	21-Jun-2024 16:38
1,3-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	21-Jun-2024 16:38
1,3-Dichloropropane	0.50	U	0.30	0.50	1.0	ug/L	1	21-Jun-2024 16:38
1,4-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	21-Jun-2024 16:38
2,2-Dichloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	21-Jun-2024 16:38
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	21-Jun-2024 16:38
2-Chlorotoluene	0.50	U	0.30	0.50	1.0	ug/L	1	21-Jun-2024 16:38
2-Hexanone	2.0	U	1.0	2.0	2.0	ug/L	1	21-Jun-2024 16:38
4-Chlorotoluene	0.50	U	0.40	0.50	1.0	ug/L	1	21-Jun-2024 16:38
4-Isopropyltoluene	0.50	U	0.30	0.50	1.0	ug/L	1	21-Jun-2024 16:38
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	21-Jun-2024 16:38
Acetone	0.50	U	0.40	0.50	2.0	ug/L	1	21-Jun-2024 16:38
Benzene	0.50	U	0.20	0.50	1.0	ug/L	1	21-Jun-2024 16:38
Bromobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	21-Jun-2024 16:38
Bromochloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	21-Jun-2024 16:38
Bromodichloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	21-Jun-2024 16:38
Bromoform	0.50	U	0.40	0.50	1.0	ug/L	1	21-Jun-2024 16:38
Bromomethane	0.50	U	0.40	0.50	1.0	ug/L	1	21-Jun-2024 16:38
Carbon disulfide	2.0	U	0.60	2.0	2.0	ug/L	1	21-Jun-2024 16:38
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	ug/L	1	21-Jun-2024 16:38
Chlorobenzene	0.50	U	0.30	0.50	1.0	ug/L	1	21-Jun-2024 16:38
Chloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	21-Jun-2024 16:38
Chloroform	0.50	U	0.20	0.50	1.0	ug/L	1	21-Jun-2024 16:38

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: 126_061024
Collection Date: 10-Jun-2024 13:00

ANALYTICAL REPORT
WorkOrder:HS24060747
Lab ID:HS24060747-09
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: TS
Chloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	21-Jun-2024 16:38
cis-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	21-Jun-2024 16:38
cis-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	21-Jun-2024 16:38
Dibromochloromethane	0.50	U	0.30	0.50	1.0	ug/L	1	21-Jun-2024 16:38
Dibromomethane	0.50	U	0.20	0.50	1.0	ug/L	1	21-Jun-2024 16:38
Dichlorodifluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	21-Jun-2024 16:38
Ethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	21-Jun-2024 16:38
Hexachlorobutadiene	2.0	U	1.0	2.0	2.0	ug/L	1	21-Jun-2024 16:38
Isopropylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	21-Jun-2024 16:38
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	21-Jun-2024 16:38
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	21-Jun-2024 16:38
n-Butylbenzene	1.0	U	0.40	1.0	1.0	ug/L	1	21-Jun-2024 16:38
n-Propylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	21-Jun-2024 16:38
Naphthalene	0.50	U	0.30	0.50	1.0	ug/L	1	21-Jun-2024 16:38
o-Xylene	0.50	U	0.30	0.50	1.0	ug/L	1	21-Jun-2024 16:38
sec-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	21-Jun-2024 16:38
Styrene	0.50	U	0.30	0.50	1.0	ug/L	1	21-Jun-2024 16:38
tert-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	21-Jun-2024 16:38
Tetrachloroethene	0.50	U	0.30	0.50	1.0	ug/L	1	21-Jun-2024 16:38
Toluene	0.50	U	0.20	0.50	1.0	ug/L	1	21-Jun-2024 16:38
trans-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	21-Jun-2024 16:38
trans-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	21-Jun-2024 16:38
Trichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	21-Jun-2024 16:38
Trichlorofluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	21-Jun-2024 16:38
Vinyl chloride	0.50	U	0.20	0.50	1.0	ug/L	1	21-Jun-2024 16:38
Surr: 1,2-Dichloroethane-d4	*104*			**0**	*81-118*	*%REC*	*1*	*21-Jun-2024 16:38*
Surr: 4-Bromofluorobenzene	*98.5*			**0**	*85-114*	*%REC*	*1*	*21-Jun-2024 16:38*
Surr: Dibromofluoromethane	*106*			**0**	*80-119*	*%REC*	*1*	*21-Jun-2024 16:38*
Surr: Toluene-d8	*108*			**0**	*89-112*	*%REC*	*1*	*21-Jun-2024 16:38*
SEMIVOLATILES SIM		**Method:SW8270SIM**				Prep:SW3510 / 13-Jun-2024		Analyst: IT
1,4-Dioxane	**0.061**		**0.010**	**0.020**	**0.030**	**ug/L**	1	22-Jun-2024 17:14
Surr: 2-Fluorobiphenyl	*87.9*			**0**	*40-140*	*%REC*	*1*	*22-Jun-2024 17:14*
Surr: 4-Terphenyl-d14	*82.9*			**0**	*40-140*	*%REC*	*1*	*22-Jun-2024 17:14*
Surr: Nitrobenzene-d5	*91.4*			**0**	*40-140*	*%REC*	*1*	*22-Jun-2024 17:14*

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: 126_061024
Collection Date: 10-Jun-2024 13:00

ANALYTICAL REPORT
WorkOrder:HS24060747
Lab ID:HS24060747-09
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS BY ICPMS BY SW6020A		**Method:SW6020A**				Prep:SW3010A / 19-Jun-2024		Analyst: JC
Aluminum	**0.0340**		**0.00180**	**0.00500**	**0.0100**	**mg/L**	1	25-Jun-2024 17:31
Antimony	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	25-Jun-2024 17:31
Arsenic	**0.0143**		**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	25-Jun-2024 17:31
Barium	**12.2**		**0.0950**	**0.125**	**0.250**	**mg/L**	50	25-Jun-2024 19:22
Beryllium	**0.000269**	J	**0.000200**	**0.000500**	**0.00200**	**mg/L**	1	25-Jun-2024 17:31
Cadmium	**0.000818**	J	**0.000200**	**0.000500**	**0.00200**	**mg/L**	1	25-Jun-2024 17:31
Calcium	**373**		**1.70**	**2.50**	**25.0**	**mg/L**	50	25-Jun-2024 19:22
Chromium	**0.00134**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	25-Jun-2024 17:31
Cobalt	**0.0142**		**0.000100**	**0.000500**	**0.00500**	**mg/L**	1	25-Jun-2024 17:31
Copper	**0.00156**	J	**0.00100**	**0.00200**	**0.00500**	**mg/L**	1	25-Jun-2024 17:31
Iron	**14.7**		**0.0120**	**0.0500**	**0.200**	**mg/L**	1	25-Jun-2024 17:31
Lead	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	25-Jun-2024 17:31
Magnesium	**292**		**0.500**	**2.50**	**10.0**	**mg/L**	50	25-Jun-2024 19:22
Manganese	**0.147**		**0.000700**	**0.00250**	**0.00500**	**mg/L**	1	25-Jun-2024 17:31
Nickel	**0.0138**		**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	25-Jun-2024 17:31
Potassium	**3.98**		**0.0180**	**0.0500**	**0.200**	**mg/L**	1	25-Jun-2024 17:31
Selenium	0.00125	U	0.00110	0.00125	0.00500	mg/L	1	25-Jun-2024 17:31
Silver	0.000500	U	0.000200	0.000500	0.00500	mg/L	1	25-Jun-2024 17:31
Sodium	**994**		**0.700**	**2.50**	**10.0**	**mg/L**	50	25-Jun-2024 19:22
Thallium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	25-Jun-2024 17:31
Vanadium	**0.00282**	J	**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	25-Jun-2024 17:31
Zinc	**0.0410**		**0.00200**	**0.00250**	**0.00500**	**mg/L**	1	25-Jun-2024 17:31
MERCURY BY SW7470A		**Method:SW7470A**				Prep:SW7470A / 24-Jun-2024		Analyst: JS
Mercury	0.000100	U	0.0000300	0.000100	0.000200	mg/L	1	24-Jun-2024 15:10
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	25-Jun-2024 16:18

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: Trip Blank
Collection Date: 10-Jun-2024 00:00

ANALYTICAL REPORT
WorkOrder:HS24060747
Lab ID:HS24060747-10
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	0.50	U	0.30	0.50	1.0	ug/L	1	15-Jun-2024 20:30
1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	15-Jun-2024 20:30
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	15-Jun-2024 20:30
1,1,2-Trichloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	15-Jun-2024 20:30
1,1-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	15-Jun-2024 20:30
1,1-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	15-Jun-2024 20:30
1,1-Dichloropropene	0.50	U	0.30	0.50	1.0	ug/L	1	15-Jun-2024 20:30
1,2,3-Trichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	15-Jun-2024 20:30
1,2,3-Trichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	15-Jun-2024 20:30
1,2,4-Trichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	15-Jun-2024 20:30
1,2,4-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	15-Jun-2024 20:30
1,2-Dibromo-3-chloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	15-Jun-2024 20:30
1,2-Dibromoethane	0.50	U	0.20	0.50	1.0	ug/L	1	15-Jun-2024 20:30
1,2-Dichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	15-Jun-2024 20:30
1,2-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	15-Jun-2024 20:30
1,2-Dichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	15-Jun-2024 20:30
1,3,5-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	15-Jun-2024 20:30
1,3-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	15-Jun-2024 20:30
1,3-Dichloropropane	0.50	U	0.30	0.50	1.0	ug/L	1	15-Jun-2024 20:30
1,4-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	15-Jun-2024 20:30
2,2-Dichloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	15-Jun-2024 20:30
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	15-Jun-2024 20:30
2-Chlorotoluene	0.50	U	0.30	0.50	1.0	ug/L	1	15-Jun-2024 20:30
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	15-Jun-2024 20:30
4-Chlorotoluene	0.50	U	0.40	0.50	1.0	ug/L	1	15-Jun-2024 20:30
4-Isopropyltoluene	0.50	U	0.30	0.50	1.0	ug/L	1	15-Jun-2024 20:30
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	15-Jun-2024 20:30
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	15-Jun-2024 20:30
Benzene	0.50	U	0.20	0.50	1.0	ug/L	1	15-Jun-2024 20:30
Bromobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	15-Jun-2024 20:30
Bromochloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	15-Jun-2024 20:30
Bromodichloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	15-Jun-2024 20:30
Bromoform	0.50	U	0.40	0.50	1.0	ug/L	1	15-Jun-2024 20:30
Bromomethane	0.50	U	0.40	0.50	1.0	ug/L	1	15-Jun-2024 20:30
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	15-Jun-2024 20:30
Carbon tetrachloride	0.50	U	0.50	0.50	1.0	ug/L	1	15-Jun-2024 20:30
Chlorobenzene	0.50	U	0.30	0.50	1.0	ug/L	1	15-Jun-2024 20:30
Chloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	15-Jun-2024 20:30
Chloroform	0.50	U	0.20	0.50	1.0	ug/L	1	15-Jun-2024 20:30

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: Trip Blank
Collection Date: 10-Jun-2024 00:00

ANALYTICAL REPORT
WorkOrder:HS24060747
Lab ID:HS24060747-10
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
Chloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	15-Jun-2024 20:30
cis-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	15-Jun-2024 20:30
cis-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	15-Jun-2024 20:30
Dibromochloromethane	0.50	U	0.30	0.50	1.0	ug/L	1	15-Jun-2024 20:30
Dibromomethane	0.50	U	0.20	0.50	1.0	ug/L	1	15-Jun-2024 20:30
Dichlorodifluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	15-Jun-2024 20:30
Ethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	15-Jun-2024 20:30
Hexachlorobutadiene	0.50	U	1.0	0.50	2.0	ug/L	1	15-Jun-2024 20:30
Isopropylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	15-Jun-2024 20:30
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	15-Jun-2024 20:30
Methylene chloride	0.50	U	0.40	0.50	2.0	ug/L	1	15-Jun-2024 20:30
n-Butylbenzene	0.50	U	0.40	0.50	1.0	ug/L	1	15-Jun-2024 20:30
n-Propylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	15-Jun-2024 20:30
Naphthalene	0.50	U	0.30	0.50	1.0	ug/L	1	15-Jun-2024 20:30
o-Xylene	0.50	U	0.30	0.50	1.0	ug/L	1	15-Jun-2024 20:30
sec-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	15-Jun-2024 20:30
Styrene	0.50	U	0.30	0.50	1.0	ug/L	1	15-Jun-2024 20:30
tert-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	15-Jun-2024 20:30
Tetrachloroethene	0.50	U	0.30	0.50	1.0	ug/L	1	15-Jun-2024 20:30
Toluene	0.50	U	0.20	0.50	1.0	ug/L	1	15-Jun-2024 20:30
trans-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	15-Jun-2024 20:30
trans-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	15-Jun-2024 20:30
Trichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	15-Jun-2024 20:30
Trichlorofluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	15-Jun-2024 20:30
Vinyl chloride	0.50	U	0.20	0.50	1.0	ug/L	1	15-Jun-2024 20:30
Surr: 1,2-Dichloroethane-d4	*114*			**0**	*81-118*	*%REC*	*1*	*15-Jun-2024 20:30*
Surr: 4-Bromofluorobenzene	*106*			**0**	*85-114*	*%REC*	*1*	*15-Jun-2024 20:30*
Surr: Dibromofluoromethane	*115*			**0**	*80-119*	*%REC*	*1*	*15-Jun-2024 20:30*
Surr: Toluene-d8	*112*			**0**	*89-112*	*%REC*	*1*	*15-Jun-2024 20:30*

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 18 24
WorkOrder: HS24060747

Batch ID: 213459 **Start Date:** 13 Jun 2024 07:00 **End Date:** 13 Jun 2024 07:00
Method: SV AQ SEP FUN EXTRACT-LOWLEV - 3510C **Prep Code:** 3510_B_SIM

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24060747-01		1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat
HS24060747-02		1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat
HS24060747-03		1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat
HS24060747-04		1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat
HS24060747-05		1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat
HS24060747-09		1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat

Batch ID: 213798 **Start Date:** 19 Jun 2024 15:00 **End Date:** 19 Jun 2024 15:00
Method: WATER - SW3010A **Prep Code:** 3010A

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24060747-03		10 (mL)	10 (mL)	1	120 plastic HNO3
HS24060747-05		10 (mL)	10 (mL)	1	120 plastic HNO3
HS24060747-07		10 (mL)	10 (mL)	1	120 plastic HNO3
HS24060747-09		10 (mL)	10 (mL)	1	120 plastic HNO3

Batch ID: 214008 **Start Date:** 24 Jun 2024 09:00 **End Date:** 24 Jun 2024 09:00
Method: MERCURY PREP BY 7470A- WATER **Prep Code:** HG_WPR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24060747-03		10 (mL)	10 (mL)	1	120 plastic HNO3
HS24060747-05		10 (mL)	10 (mL)	1	120 plastic HNO3
HS24060747-07		10 (mL)	10 (mL)	1	120 plastic HNO3
HS24060747-09		10 (mL)	10 (mL)	1	120 plastic HNO3

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060747

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 213459 (0)	**Test Name :** SEMIVOLATILES SIM				**Matrix:** Groundwater	
HS24060747-01	1824DPTMW05_061024	10 Jun 2024 07:35		13 Jun 2024 07:00	26 Jun 2024 20:14	50
HS24060747-02	1824DPTMW05_061024_a	10 Jun 2024 07:35		13 Jun 2024 07:00	26 Jun 2024 20:32	50
HS24060747-03	129_061024	10 Jun 2024 08:25		13 Jun 2024 07:00	22 Jun 2024 16:22	1
HS24060747-04	120_061024	10 Jun 2024 09:10		13 Jun 2024 07:00	26 Jun 2024 20:49	20
HS24060747-05	MW14_061024	10 Jun 2024 09:55		13 Jun 2024 07:00	26 Jun 2024 21:24	1000
HS24060747-09	126_061024	10 Jun 2024 13:00		13 Jun 2024 07:00	22 Jun 2024 17:14	1
Batch ID: 213798 (0)	**Test Name :** METALS BY ICPMS BY SW6020A				**Matrix:** Groundwater	
HS24060747-03	129_061024	10 Jun 2024 08:25		19 Jun 2024 15:00	25 Jun 2024 17:23	1
HS24060747-05	MW14_061024	10 Jun 2024 09:55		19 Jun 2024 15:00	25 Jun 2024 19:03	50
HS24060747-05	MW14_061024	10 Jun 2024 09:55		19 Jun 2024 15:00	25 Jun 2024 17:26	1
HS24060747-07	CO9_061024	10 Jun 2024 11:25		19 Jun 2024 15:00	25 Jun 2024 19:05	20
HS24060747-07	CO9_061024	10 Jun 2024 11:25		19 Jun 2024 15:00	25 Jun 2024 17:28	1
HS24060747-09	126_061024	10 Jun 2024 13:00		19 Jun 2024 15:00	25 Jun 2024 19:22	50
HS24060747-09	126_061024	10 Jun 2024 13:00		19 Jun 2024 15:00	25 Jun 2024 17:31	1
Batch ID: 214008 (0)	**Test Name :** MERCURY BY SW7470A				**Matrix:** Groundwater	
HS24060747-03	129_061024	10 Jun 2024 08:25		24 Jun 2024 09:00	24 Jun 2024 15:05	1
HS24060747-05	MW14_061024	10 Jun 2024 09:55		24 Jun 2024 09:00	24 Jun 2024 15:07	1
HS24060747-07	CO9_061024	10 Jun 2024 11:25		24 Jun 2024 09:00	24 Jun 2024 15:08	1
HS24060747-09	126_061024	10 Jun 2024 13:00		24 Jun 2024 09:00	24 Jun 2024 15:10	1
Batch ID: R469580 (0)	**Test Name :** VOLATILES ORGANICS BY METHOD 8260C				**Matrix:** Groundwater	
HS24060747-10	Trip Blank	10 Jun 2024 00:00			15 Jun 2024 20:30	1
Batch ID: R470169 (0)	**Test Name :** VOLATILES ORGANICS BY METHOD 8260C				**Matrix:** Groundwater	
HS24060747-01	1824DPTMW05_061024	10 Jun 2024 07:35			21 Jun 2024 17:23	100
HS24060747-02	1824DPTMW05_061024_a	10 Jun 2024 07:35			21 Jun 2024 17:45	100
HS24060747-03	129_061024	10 Jun 2024 08:25			21 Jun 2024 17:02	10
HS24060747-04	120_061024	10 Jun 2024 09:10			21 Jun 2024 18:06	100
HS24060747-05	MW14_061024	10 Jun 2024 09:55			21 Jun 2024 18:28	500
HS24060747-06	MW23_061024	10 Jun 2024 10:40			21 Jun 2024 18:49	100
HS24060747-07	CO9_061024	10 Jun 2024 11:25			21 Jun 2024 16:16	1
HS24060747-08	CO1_061024	10 Jun 2024 12:15			21 Jun 2024 15:12	1
HS24060747-09	126_061024	10 Jun 2024 13:00			21 Jun 2024 16:38	1

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060747

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R470399 (0)	**Test Name :** SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)				**Matrix:** Groundwater	
HS24060747-01	1824DPTMW05_061024	10 Jun 2024 07:35			25 Jun 2024 16:18	1
HS24060747-02	1824DPTMW05_061024_a	10 Jun 2024 07:35			25 Jun 2024 16:18	1
HS24060747-03	129_061024	10 Jun 2024 08:25			25 Jun 2024 16:18	1
HS24060747-04	120_061024	10 Jun 2024 09:10			25 Jun 2024 16:18	1
HS24060747-05	MW14_061024	10 Jun 2024 09:55			25 Jun 2024 16:18	1
HS24060747-06	MW23_061024	10 Jun 2024 10:40			25 Jun 2024 16:18	1
HS24060747-07	CO9_061024	10 Jun 2024 11:25			25 Jun 2024 16:18	1
HS24060747-08	CO1_061024	10 Jun 2024 12:15			25 Jun 2024 16:18	1
HS24060747-09	126_061024	10 Jun 2024 13:00			25 Jun 2024 16:18	1

Revision: 1

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060747

QC BATCH REPORT

Batch ID: 213798 (0) **Instrument: ICPMS07** **Method: METALS BY ICPMS BY SW6020A**

MBLK Sample ID: **MBLK-213798** Units: **mg/L** Analysis Date: **25-Jun-2024 16:47**
Client ID: Run ID: **ICPMS07_470364** SeqNo: **8098138** PrepDate: **19-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.00500	0.0100								U
Antimony	0.00125	0.00500								U
Arsenic	0.00125	0.00500								U
Barium	0.00250	0.00500								U
Beryllium	0.000500	0.00200								U
Cadmium	0.000500	0.00200								U
Calcium	0.0500	0.500								U
Chromium	0.00125	0.00500								U
Cobalt	0.000500	0.00500								U
Copper	0.00200	0.00500								U
Iron	0.0500	0.200								U
Lead	0.00125	0.00500								U
Magnesium	0.0500	0.200								U
Manganese	0.00250	0.00500								U
Nickel	0.00125	0.00500								U
Potassium	0.0500	0.200								U
Selenium	0.00125	0.00500								U
Silver	0.000500	0.00500								U
Sodium	0.0500	0.200								U
Thallium	0.000500	0.00200								U
Vanadium	0.00125	0.00500								U
Zinc	0.00250	0.00500								U

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060747

QC BATCH REPORT

Batch ID: 213798 (0) **Instrument: ICPMS07** **Method: METALS BY ICPMS BY SW6020A**

LCS Sample ID: **LCS-213798** Units: **mg/L** Analysis Date: **25-Jun-2024 16:49**
Client ID: Run ID: **ICPMS07_470364** SeqNo: **8098139** PrepDate: **19-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1052	0.0100	0.1	0	105	84 - 117				
Antimony	0.04871	0.00500	0.05	0	97.4	85 - 117				
Arsenic	0.04717	0.00500	0.05	0	94.3	84 - 116				
Barium	0.04674	0.00500	0.05	0	93.5	86 - 114				
Beryllium	0.04651	0.00200	0.05	0	93.0	83 - 121				
Cadmium	0.04653	0.00200	0.05	0	93.1	87 - 115				
Calcium	4.767	0.500	5	0	95.3	87 - 118				
Chromium	0.04717	0.00500	0.05	0	94.3	85 - 116				
Cobalt	0.04762	0.00500	0.05	0	95.2	86 - 115				
Copper	0.04783	0.00500	0.05	0	95.7	85 - 118				
Iron	4.812	0.200	5	0	96.2	87 - 118				
Lead	0.04643	0.00500	0.05	0	92.9	88 - 115				
Magnesium	4.807	0.200	5	0	96.1	83 - 118				
Manganese	0.0491	0.00500	0.05	0	98.2	87 - 115				
Nickel	0.04837	0.00500	0.05	0	96.7	85 - 117				
Potassium	4.747	0.200	5	0	94.9	87 - 115				
Selenium	0.04719	0.00500	0.05	0	94.4	80 - 120				
Silver	0.04793	0.00500	0.05	0	95.9	85 - 116				
Sodium	4.68	0.200	5	0	93.6	85 - 117				
Vanadium	0.04634	0.00500	0.05	0	92.7	86 - 115				
Zinc	0.05509	0.00500	0.05	0	110	83 - 119				

LCS Sample ID: **LCS-213798** Units: **mg/L** Analysis Date: **25-Jun-2024 17:33**
Client ID: Run ID: **ICPMS07_470364** SeqNo: **8098251** PrepDate: **19-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Thallium	0.04452	0.00200	0.05	0	89.0	82 - 116				

MS Sample ID: **HS24060694-01MS** Units: **mg/L** Analysis Date: **26-Jun-2024 12:18**
Client ID: Run ID: **ICPMS07_470472** SeqNo: **8099863** PrepDate: **19-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1173	0.0100	0.1	0.002952	114	84 - 117				
Zinc	0.1187	0.00500	0.1	0.004939	114	83 - 119				

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060747

QC BATCH REPORT

Batch ID: 213798 (0) **Instrument: ICPMS07** **Method: METALS BY ICPMS BY SW6020A**

MS Sample ID: **HS24060694-01MS** Units: **mg/L** Analysis Date: **25-Jun-2024 16:56**
Client ID: Run ID: **ICPMS07_470364** SeqNo: **8098177** PrepDate: **19-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.04964	0.00500	0.05	0.000292	98.7	85 - 117				
Arsenic	0.04935	0.00500	0.05	0.000343	98.0	84 - 116				
Barium	0.2443	0.00500	0.05	0.1994	89.7	86 - 114				
Beryllium	0.04889	0.00200	0.05	0.000021	97.7	83 - 121				
Cadmium	0.04823	0.00200	0.05	0.000148	96.2	87 - 115				
Calcium	20.76	0.500	5	16.2	91.3	87 - 118				
Chromium	0.04865	0.00500	0.05	0.00175	93.8	85 - 116				
Cobalt	0.04827	0.00500	0.05	0.000901	94.7	86 - 115				
Copper	0.04862	0.00500	0.05	0.00114	95.0	85 - 118				
Iron	5.025	0.200	5	0.2217	96.1	87 - 118				
Lead	0.04803	0.00500	0.05	0.000086	95.9	88 - 115				
Magnesium	13.19	0.200	5	8.499	93.8	83 - 118				
Nickel	0.05024	0.00500	0.05	0.004569	91.3	85 - 117				
Potassium	5.948	0.200	5	1.123	96.5	87 - 115				
Selenium	0.04935	0.00500	0.05	0.00032	98.1	80 - 120				
Silver	0.04755	0.00500	0.05	0.000045	95.0	85 - 116				
Thallium	0.04175	0.00200	0.05	0.000012	83.5	82 - 116				
Vanadium	0.04894	0.00500	0.05	0.001125	95.6	86 - 115				

MS Sample ID: **HS24060694-01MS** Units: **mg/L** Analysis Date: **25-Jun-2024 18:43**
Client ID: Run ID: **ICPMS07_470364** SeqNo: **8098368** PrepDate: **19-Jun-2024** DF: **2**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Manganese	0.2392	0.0100	0.05	0.2035	71.5	87 - 115				SO
Sodium	179.5	0.400	5	180.2	-14.1	85 - 117				SO

MSD Sample ID: **HS24060694-01MSD** Units: **mg/L** Analysis Date: **26-Jun-2024 12:20**
Client ID: Run ID: **ICPMS07_470472** SeqNo: **8099864** PrepDate: **19-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1143	0.0100	0.1	0.002952	111	84 - 117	0.1173	2.55	20	
Zinc	0.1175	0.00500	0.1	0.004939	113	83 - 119	0.1187	1.03	20	

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060747

QC BATCH REPORT

Batch ID: 213798 (0) **Instrument: ICPMS07** **Method: METALS BY ICPMS BY SW6020A**

MSD Sample ID: **HS24060694-01MSD** Units: **mg/L** Analysis Date: **25-Jun-2024 16:59**
Client ID: Run ID: **ICPMS07_470364** SeqNo: **8098178** PrepDate: **19-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.04977	0.00500	0.05	0.000292	98.9	85 - 117	0.04964	0.243	20	
Arsenic	0.04962	0.00500	0.05	0.000343	98.6	84 - 116	0.04935	0.538	20	
Barium	0.2438	0.00500	0.05	0.1994	88.6	86 - 114	0.2443	0.211	20	
Beryllium	0.04908	0.00200	0.05	0.000021	98.1	83 - 121	0.04889	0.378	20	
Cadmium	0.04843	0.00200	0.05	0.000148	96.6	87 - 115	0.04823	0.422	20	
Calcium	20.95	0.500	5	16.2	95.0	87 - 118	20.76	0.884	20	
Chromium	0.04885	0.00500	0.05	0.00175	94.2	85 - 116	0.04865	0.404	20	
Cobalt	0.04879	0.00500	0.05	0.000901	95.8	86 - 115	0.04827	1.07	20	
Copper	0.0489	0.00500	0.05	0.00114	95.5	85 - 118	0.04862	0.574	20	
Iron	5.078	0.200	5	0.2217	97.1	87 - 118	5.025	1.06	20	
Lead	0.04829	0.00500	0.05	0.000086	96.4	88 - 115	0.04803	0.538	20	
Magnesium	13.31	0.200	5	8.499	96.2	83 - 118	13.19	0.9	20	
Nickel	0.05052	0.00500	0.05	0.004569	91.9	85 - 117	0.05024	0.572	20	
Potassium	5.971	0.200	5	1.123	96.9	87 - 115	5.948	0.382	20	
Selenium	0.05066	0.00500	0.05	0.00032	101	80 - 120	0.04935	2.62	20	
Silver	0.04765	0.00500	0.05	0.000045	95.2	85 - 116	0.04755	0.208	20	
Thallium	0.04249	0.00200	0.05	0.000012	85.0	82 - 116	0.04175	1.76	20	
Vanadium	0.04903	0.00500	0.05	0.001125	95.8	86 - 115	0.04894	0.171	20	

MSD Sample ID: **HS24060694-01MSD** Units: **mg/L** Analysis Date: **25-Jun-2024 18:46**
Client ID: Run ID: **ICPMS07_470364** SeqNo: **8098369** PrepDate: **19-Jun-2024** DF: **2**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Manganese	0.2375	0.0100	0.05	0.2035	68.0	87 - 115	0.2392	0.73	20	SO
Sodium	178	0.400	5	180.2	-43.0	85 - 117	179.5	0.809	20	SO

PDS Sample ID: **HS24060694-01PDS** Units: **mg/L** Analysis Date: **26-Jun-2024 12:23**
Client ID: Run ID: **ICPMS07_470472** SeqNo: **8099865** PrepDate: **19-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1129	0.0100	0.1	0.002952	110	80 - 120				
Zinc	0.1159	0.00500	0.1	0.004939	111	80 - 120				

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060747

QC BATCH REPORT

Batch ID: 213798 (0) **Instrument: ICPMS07** **Method: METALS BY ICPMS BY SW6020A**

PDS Sample ID: **HS24060694-01PDS** Units: **mg/L** Analysis Date: **25-Jun-2024 17:01**
Client ID: Run ID: **ICPMS07_470364** SeqNo: **8098179** PrepDate: **19-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.09399	0.00500	0.1	0.000292	93.7	80 - 120				
Arsenic	0.09435	0.00500	0.1	0.000343	94.0	80 - 120				
Barium	0.2823	0.00500	0.1	0.1994	82.9	80 - 120				
Beryllium	0.0926	0.00200	0.1	0.000021	92.6	80 - 120				
Cadmium	0.09298	0.00200	0.1	0.000148	92.8	80 - 120				
Chromium	0.09246	0.00500	0.1	0.00175	90.7	80 - 120				
Cobalt	0.09298	0.00500	0.1	0.000901	92.1	80 - 120				
Copper	0.0925	0.00500	0.1	0.00114	91.4	80 - 120				
Iron	9.522	0.200	10	0.2217	93.0	80 - 120				
Lead	0.09322	0.00500	0.1	0.000086	93.1	80 - 120				
Magnesium	17.23	0.200	10	8.499	87.3	80 - 120				
Nickel	0.09341	0.00500	0.1	0.004569	88.8	80 - 120				
Potassium	10.32	0.200	10	1.123	91.9	80 - 120				
Selenium	0.09383	0.00500	0.1	0.00032	93.5	80 - 120				
Silver	0.09478	0.00500	0.1	0.000045	94.7	80 - 120				
Thallium	0.09304	0.00200	0.1	0.000012	93.0	80 - 120				
Vanadium	0.09318	0.00500	0.1	0.001125	92.1	80 - 120				

PDS Sample ID: **HS24060694-01PDS** Units: **mg/L** Analysis Date: **25-Jun-2024 18:48**
Client ID: Run ID: **ICPMS07_470364** SeqNo: **8098372** PrepDate: **19-Jun-2024** DF: **2**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Manganese	0.2838	0.0100	0.1	0.2035	80.4	80 - 120				
Sodium	180.9	0.400	10	180.2	7.39	80 - 120				SO

SD Sample ID: **HS24060694-01SD** Units: **mg/L** Analysis Date: **26-Jun-2024 12:15**
Client ID: Run ID: **ICPMS07_470472** SeqNo: **8099862** PrepDate: **19-Jun-2024** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Aluminum	0.0250	0.0500					0.002952	0	10	U
Zinc	0.0125	0.0250					0.004939	0	10	U

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060747

QC BATCH REPORT

Batch ID: 213798 (0) **Instrument: ICPMS07** **Method: METALS BY ICPMS BY SW6020A**

SD Sample ID: **HS24060694-01SD** Units: **mg/L** Analysis Date: **25-Jun-2024 16:52**
Client ID: Run ID: **ICPMS07_470364** SeqNo: **8098175** PrepDate: **19-Jun-2024** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Antimony	0.00625	0.0250					0.000292	0	10	U
Arsenic	0.00625	0.0250					0.000343	0	10	U
Barium	0.1984	0.0250					0.1994	0.5	10	
Beryllium	0.00250	0.0100					0.000021	0	10	U
Cadmium	0.00250	0.0100					0.000148	0	10	U
Calcium	16.25	2.50					16.2	0.343	10	
Chromium	0.00625	0.0250					0.00175	0	10	U
Cobalt	0.000932	0.0250					0.000901	0	10	J
Copper	0.0100	0.0250					0.00114	0	10	U
Iron	0.2285	1.00					0.2217	0	10	J
Lead	0.00625	0.0250					0.000086	0	10	U
Magnesium	8.733	1.00					8.499	2.76	10	
Nickel	0.004624	0.0250					0.004569	0	10	J
Potassium	1.108	1.00					1.123	1.38	10	
Selenium	0.00625	0.0250					0.00032	0	10	U
Silver	0.00250	0.0250					0.000045	0	10	U
Thallium	0.00250	0.0100					0.000012	0	10	U
Vanadium	0.00625	0.0250					0.001125	0	10	U

SD Sample ID: **HS24060694-01SD** Units: **mg/L** Analysis Date: **25-Jun-2024 18:41**
Client ID: Run ID: **ICPMS07_470364** SeqNo: **8098367** PrepDate: **19-Jun-2024** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Manganese	0.2064	0.0500					0.2035	1.45	10	
Sodium	181.9	2.00					180.2	0.971	10	

The following samples were analyzed in this batch: HS24060747-03 HS24060747-05 HS24060747-07 HS24060747-09

Revision: 1

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ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060747

QC BATCH REPORT

Batch ID: 214008 (0) **Instrument: HG04** **Method: MERCURY BY SW7470A**

MBLK Sample ID: **MBLK-214008** Units: **mg/L** Analysis Date: **24-Jun-2024 14:42**
Client ID: Run ID: **HG04_470273** SeqNo: **8094701** PrepDate: **24-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.000100	0.000200								U

LCS Sample ID: **LCS-214008** Units: **mg/L** Analysis Date: **24-Jun-2024 14:44**
Client ID: Run ID: **HG04_470273** SeqNo: **8094702** PrepDate: **24-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00494	0.000200	0.005	0	98.8	82 - 119				

MS Sample ID: **HS24060694-02MS** Units: **mg/L** Analysis Date: **24-Jun-2024 14:49**
Client ID: Run ID: **HG04_470273** SeqNo: **8094705** PrepDate: **24-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00476	0.000200	0.005	0.00001400	94.9	82 - 119				

MSD Sample ID: **HS24060694-02MSD** Units: **mg/L** Analysis Date: **24-Jun-2024 14:51**
Client ID: Run ID: **HG04_470273** SeqNo: **8094706** PrepDate: **24-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00469	0.000200	0.005	0.00001400	93.5	82 - 119	0.004760	1.48	20	

The following samples were analyzed in this batch: HS24060747-03 HS24060747-05 HS24060747-07 HS24060747-09

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060747

QC BATCH REPORT

Batch ID: 213459 (0) **Instrument: SV-6** **Method: SEMIVOLATILES SIM**

MBLK Sample ID: **MBLK-213459** Units: **ug/L** Analysis Date: **22-Jun-2024 13:10**
Client ID: Run ID: **SV-6_470408** SeqNo: **8098040** PrepDate: **13-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	0.020	0.030								U
Surr: 2-Fluorobiphenyl	*0.07061*	*0*	*0.08*	*0*	*88.3*	*40 - 140*				
Surr: 4-Terphenyl-d14	*0.06556*	*0*	*0.08*	*0*	*81.9*	*40 - 140*				
Surr: Nitrobenzene-d5	*0.07255*	*0*	*0.08*	*0*	*90.7*	*40 - 140*				

LCS Sample ID: **LCS-213459** Units: **ug/L** Analysis Date: **22-Jun-2024 13:28**
Client ID: Run ID: **SV-6_470408** SeqNo: **8098041** PrepDate: **13-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	0.0409	0.030	0.08	0	51.1	40 - 140				
Surr: 2-Fluorobiphenyl	*0.06536*	*0*	*0.08*	*0*	*81.7*	*40 - 140*				
Surr: 4-Terphenyl-d14	*0.06398*	*0*	*0.08*	*0*	*80.0*	*40 - 140*				
Surr: Nitrobenzene-d5	*0.06405*	*0*	*0.08*	*0*	*80.1*	*40 - 140*				

LCSD Sample ID: **LCSD-213459** Units: **ug/L** Analysis Date: **22-Jun-2024 13:45**
Client ID: Run ID: **SV-6_470408** SeqNo: **8098042** PrepDate: **13-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	0.04589	0.030	0.08	0	57.4	40 - 140	0.0409	11.5	20	
Surr: 2-Fluorobiphenyl	*0.07043*	*0*	*0.08*	*0*	*88.0*	*40 - 140*	*0.06536*	*7.46*	*20*	
Surr: 4-Terphenyl-d14	*0.06646*	*0*	*0.08*	*0*	*83.1*	*40 - 140*	*0.06398*	*3.79*	*20*	
Surr: Nitrobenzene-d5	*0.06531*	*0*	*0.08*	*0*	*81.6*	*40 - 140*	*0.06405*	*1.94*	*20*	

The following samples were analyzed in this batch: HS24060747-01 HS24060747-02 HS24060747-03 HS24060747-04 HS24060747-05 HS24060747-09

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060747

QC BATCH REPORT

Batch ID: R469580 (0) **Instrument:** VOA7 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MBLK Sample ID: **VBLKW-240615** Units: **ug/L** Analysis Date: **15-Jun-2024 20:07**
Client ID: Run ID: **VOA7_469580** SeqNo: **8073882** 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	0.50	1.0								U
1,1,1-Trichloroethane	0.50	1.0								U
1,1,2,2-Tetrachloroethane	1.0	1.0								U
1,1,2-Trichloroethane	0.50	1.0								U
1,1-Dichloroethane	0.50	1.0								U
1,1-Dichloroethene	0.50	1.0								U
1,1-Dichloropropene	0.50	1.0								U
1,2,3-Trichlorobenzene	0.50	1.0								U
1,2,3-Trichloropropane	0.50	1.0								U
1,2,4-Trichlorobenzene	0.50	1.0								U
1,2,4-Trimethylbenzene	0.50	1.0								U
1,2-Dibromo-3-chloropropane	0.50	1.0								U
1,2-Dibromoethane	0.50	1.0								U
1,2-Dichlorobenzene	0.50	1.0								U
1,2-Dichloroethane	0.50	1.0								U
1,2-Dichloropropane	0.50	1.0								U
1,3,5-Trimethylbenzene	0.50	1.0								U
1,3-Dichlorobenzene	0.50	1.0								U
1,3-Dichloropropane	0.50	1.0								U
1,4-Dichlorobenzene	0.50	1.0								U
2,2-Dichloropropane	0.50	1.0								U
2-Butanone	1.0	2.0								U
2-Chlorotoluene	0.50	1.0								U
2-Hexanone	1.0	2.0								U
4-Chlorotoluene	0.50	1.0								U
4-Isopropyltoluene	0.50	1.0								U
4-Methyl-2-pentanone	1.0	2.0								U
Acetone	1.0	2.0								U
Benzene	0.50	1.0								U
Bromobenzene	0.50	1.0								U
Bromochloromethane	0.50	1.0								U
Bromodichloromethane	0.50	1.0								U
Bromoform	0.50	1.0								U
Bromomethane	0.50	1.0								U

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060747

QC BATCH REPORT

Batch ID: R469580 (0) **Instrument:** VOA7 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MBLK Sample ID: **VBLKW-240615** Units: **ug/L** Analysis Date: **15-Jun-2024 20:07**
Client ID: Run ID: **VOA7_469580** SeqNo: **8073882** 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	0.50	1.0								U
Chlorobenzene	0.50	1.0								U
Chloroethane	0.50	1.0								U
Chloroform	0.50	1.0								U
Chloromethane	0.50	1.0								U
cis-1,2-Dichloroethene	0.50	1.0								U
cis-1,3-Dichloropropene	0.50	1.0								U
Dibromochloromethane	0.50	1.0								U
Dibromomethane	0.50	1.0								U
Dichlorodifluoromethane	0.50	1.0								U
Ethylbenzene	0.50	1.0								U
Hexachlorobutadiene	0.50	2.0								U
Isopropylbenzene	0.50	1.0								U
m,p-Xylene	1.0	2.0								U
Methylene chloride	0.50	2.0								U
Naphthalene	0.50	1.0								U
n-Butylbenzene	0.50	1.0								U
n-Propylbenzene	0.50	1.0								U
o-Xylene	0.50	1.0								U
sec-Butylbenzene	0.50	1.0								U
Styrene	0.50	1.0								U
tert-Butylbenzene	0.50	1.0								U
Tetrachloroethene	0.50	1.0								U
Toluene	0.50	1.0								U
trans-1,2-Dichloroethene	0.50	1.0								U
trans-1,3-Dichloropropene	0.50	1.0								U
Trichloroethene	0.50	1.0								U
Trichlorofluoromethane	0.50	1.0								U
Vinyl chloride	0.50	1.0								U
Surr: 1,2-Dichloroethane-d4	*57.75*	*35*	*50*	*0*	*116*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*54.97*	*35*	*50*	*0*	*110*	*85 - 114*				
Surr: Dibromofluoromethane	*57.43*	*35*	*50*	*0*	*115*	*80 - 119*				
Surr: Toluene-d8	*55.86*	*35*	*50*	*0*	*112*	*89 - 112*				

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060747

QC BATCH REPORT

Batch ID: R469580 (0) **Instrument:** VOA7 **Method:** VOLATILES ORGANICS BY METHOD 8260C

LCS Sample ID: **VLCSW-240615** Units: **ug/L** Analysis Date: **15-Jun-2024 18:58**
Client ID: Run ID: **VOA7_469580** SeqNo: **8073880** 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	19.73	1.0	20	0	98.6	78 - 124				
1,1,1-Trichloroethane	18.76	1.0	20	0	93.8	74 - 131				
1,1,2,2-Tetrachloroethane	20.87	1.0	20	0	104	71 - 121				
1,1,2-Trichloroethane	20.29	1.0	20	0	101	80 - 119				
1,1-Dichloroethane	17.88	1.0	20	0	89.4	77 - 125				
1,1-Dichloroethene	19.31	1.0	20	0	96.5	71 - 131				
1,1-Dichloropropene	19.21	1.0	20	0	96.0	78 - 125				
1,2,3-Trichlorobenzene	19.99	1.0	20	0	99.9	69 - 129				
1,2,3-Trichloropropane	20.04	1.0	20	0	100	73 - 122				
1,2,4-Trichlorobenzene	20.66	1.0	20	0	103	69 - 130				
1,2,4-Trimethylbenzene	20.66	1.0	20	0	103	76 - 124				
1,2-Dibromo-3-chloropropane	19.2	1.0	20	0	96.0	62 - 128				
1,2-Dibromoethane	19.46	1.0	20	0	97.3	77 - 121				
1,2-Dichlorobenzene	20.37	1.0	20	0	102	80 - 119				
1,2-Dichloroethane	18.82	1.0	20	0	94.1	73 - 128				
1,2-Dichloropropane	19.16	1.0	20	0	95.8	78 - 122				
1,3,5-Trimethylbenzene	20.34	1.0	20	0	102	75 - 124				
1,3-Dichlorobenzene	20.76	1.0	20	0	104	80 - 119				
1,3-Dichloropropane	19.99	1.0	20	0	99.9	80 - 119				
1,4-Dichlorobenzene	20.53	1.0	20	0	103	79 - 118				
2,2-Dichloropropane	17.51	1.0	20	0	87.6	60 - 139				
2-Butanone	39.81	2.0	40	0	99.5	56 - 143				
2-Chlorotoluene	20.65	1.0	20	0	103	79 - 122				
2-Hexanone	39.8	2.0	40	0	99.5	57 - 139				
4-Chlorotoluene	20.56	1.0	20	0	103	78 - 122				
4-Isopropyltoluene	20.35	1.0	20	0	102	77 - 127				
4-Methyl-2-pentanone	41.31	2.0	40	0	103	67 - 130				
Acetone	36.59	2.0	40	0	91.5	39 - 160				
Benzene	19.6	1.0	20	0	98.0	79 - 120				
Bromobenzene	20.76	1.0	20	0	104	80 - 120				
Bromochloromethane	19.66	1.0	20	0	98.3	78 - 123				
Bromodichloromethane	17.22	1.0	20	0	86.1	79 - 125				
Bromoform	18.5	1.0	20	0	92.5	66 - 130				
Bromomethane	19.47	1.0	20	0	97.3	53 - 141				

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060747

QC BATCH REPORT

Batch ID: R469580 (0) **Instrument:** VOA7 **Method:** VOLATILES ORGANICS BY METHOD 8260C

LCS Sample ID: **VLCSW-240615** Units: **ug/L** Analysis Date: **15-Jun-2024 18:58**
Client ID: Run ID: **VOA7_469580** SeqNo: **8073880** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	38.03	2.0	40	0	95.1	64 - 133				
Carbon tetrachloride	18.26	1.0	20	0	91.3	72 - 136				
Chlorobenzene	19.92	1.0	20	0	99.6	82 - 118				
Chloroethane	19.16	1.0	20	0	95.8	60 - 138				
Chloroform	18.89	1.0	20	0	94.4	79 - 124				
Chloromethane	19.13	1.0	20	0	95.7	50 - 139				
cis-1,2-Dichloroethene	18.97	1.0	20	0	94.9	78 - 123				
cis-1,3-Dichloropropene	18.21	1.0	20	0	91.1	75 - 124				
Dibromochloromethane	18.36	1.0	20	0	91.8	74 - 126				
Dibromomethane	19.14	1.0	20	0	95.7	79 - 123				
Dichlorodifluoromethane	18.28	1.0	20	0	91.4	32 - 152				
Ethylbenzene	19.84	1.0	20	0	99.2	79 - 121				
Hexachlorobutadiene	21.04	2.0	20	0	105	66 - 134				
Isopropylbenzene	20.03	1.0	20	0	100	72 - 131				
m,p-Xylene	40.57	2.0	40	0	101	80 - 121				
Methylene chloride	18.79	2.0	20	0	93.9	74 - 124				
Naphthalene	19.72	1.0	20	0	98.6	61 - 128				
n-Butylbenzene	20.31	1.0	20	0	102	75 - 128				
n-Propylbenzene	20.35	1.0	20	0	102	76 - 126				
o-Xylene	20.35	1.0	20	0	102	78 - 122				
sec-Butylbenzene	20.95	1.0	20	0	105	77 - 126				
Styrene	20.27	1.0	20	0	101	78 - 123				
tert-Butylbenzene	20.5	1.0	20	0	102	78 - 124				
Tetrachloroethene	19.77	1.0	20	0	98.8	74 - 129				
Toluene	20.22	1.0	20	0	101	80 - 121				
trans-1,2-Dichloroethene	17.61	1.0	20	0	88.0	75 - 124				
trans-1,3-Dichloropropene	18.21	1.0	20	0	91.1	73 - 127				
Trichloroethene	19.02	1.0	20	0	95.1	79 - 123				
Trichlorofluoromethane	18.12	1.0	20	0	90.6	65 - 141				
Vinyl chloride	18.79	1.0	20	0	94.0	58 - 137				
Surr: 1,2-Dichloroethane-d4	*47.94*	*35*	*50*	*0*	*95.9*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*51.19*	*35*	*50*	*0*	*102*	*85 - 114*				
Surr: Dibromofluoromethane	*48.36*	*35*	*50*	*0*	*96.7*	*80 - 119*				
Surr: Toluene-d8	*52.34*	*35*	*50*	*0*	*105*	*89 - 112*				

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060747

QC BATCH REPORT

Batch ID: R469580 (0) **Instrument:** VOA7 **Method:** VOLATILES ORGANICS BY METHOD 8260C

LCSD Sample ID: **VLCSDW-240615** Units: **ug/L** Analysis Date: **15-Jun-2024 19:21**
Client ID: Run ID: **VOA7_469580** SeqNo: **8073881** 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	19.68	1.0	20	0	98.4	78 - 124	19.73	0.238	20	
1,1,1-Trichloroethane	18.95	1.0	20	0	94.7	74 - 131	18.76	1.01	20	
1,1,2,2-Tetrachloroethane	21.5	1.0	20	0	108	71 - 121	20.87	3.01	20	
1,1,2-Trichloroethane	21.04	1.0	20	0	105	80 - 119	20.29	3.66	20	
1,1-Dichloroethane	18.17	1.0	20	0	90.8	77 - 125	17.88	1.58	20	
1,1-Dichloroethene	19.84	1.0	20	0	99.2	71 - 131	19.31	2.72	20	
1,1-Dichloropropene	19.21	1.0	20	0	96.0	78 - 125	19.21	0.00663	20	
1,2,3-Trichlorobenzene	19.73	1.0	20	0	98.7	69 - 129	19.99	1.28	20	
1,2,3-Trichloropropane	21.16	1.0	20	0	106	73 - 122	20.04	5.44	20	
1,2,4-Trichlorobenzene	20.41	1.0	20	0	102	69 - 130	20.66	1.23	20	
1,2,4-Trimethylbenzene	20.91	1.0	20	0	105	76 - 124	20.66	1.23	20	
1,2-Dibromo-3-chloropropane	19.19	1.0	20	0	95.9	62 - 128	19.2	0.0378	20	
1,2-Dibromoethane	20.21	1.0	20	0	101	77 - 121	19.46	3.76	20	
1,2-Dichlorobenzene	20.92	1.0	20	0	105	80 - 119	20.37	2.65	20	
1,2-Dichloroethane	19.44	1.0	20	0	97.2	73 - 128	18.82	3.29	20	
1,2-Dichloropropane	19.35	1.0	20	0	96.7	78 - 122	19.16	0.973	20	
1,3,5-Trimethylbenzene	20.81	1.0	20	0	104	75 - 124	20.34	2.29	20	
1,3-Dichlorobenzene	20.94	1.0	20	0	105	80 - 119	20.76	0.843	20	
1,3-Dichloropropane	20.24	1.0	20	0	101	80 - 119	19.99	1.25	20	
1,4-Dichlorobenzene	21.08	1.0	20	0	105	79 - 118	20.53	2.62	20	
2,2-Dichloropropane	17.85	1.0	20	0	89.2	60 - 139	17.51	1.91	20	
2-Butanone	42.36	2.0	40	0	106	56 - 143	39.81	6.21	20	
2-Chlorotoluene	20.52	1.0	20	0	103	79 - 122	20.65	0.61	20	
2-Hexanone	40.83	2.0	40	0	102	57 - 139	39.8	2.56	20	
4-Chlorotoluene	20.77	1.0	20	0	104	78 - 122	20.56	1.05	20	
4-Isopropyltoluene	20.55	1.0	20	0	103	77 - 127	20.35	1	20	
4-Methyl-2-pentanone	43.44	2.0	40	0	109	67 - 130	41.31	5.02	20	
Acetone	42.57	2.0	40	0	106	39 - 160	36.59	15.1	20	
Benzene	19.54	1.0	20	0	97.7	79 - 120	19.6	0.264	20	
Bromobenzene	21.06	1.0	20	0	105	80 - 120	20.76	1.43	20	
Bromochloromethane	20.01	1.0	20	0	100	78 - 123	19.66	1.77	20	
Bromodichloromethane	17.56	1.0	20	0	87.8	79 - 125	17.22	1.99	20	
Bromoform	18.89	1.0	20	0	94.5	66 - 130	18.5	2.08	20	
Bromomethane	20.49	1.0	20	0	102	53 - 141	19.47	5.11	20	

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060747

QC BATCH REPORT

Batch ID: R469580 (0) **Instrument:** VOA7 **Method:** VOLATILES ORGANICS BY METHOD 8260C

LCSD Sample ID: **VLCSDW-240615** Units: **ug/L** Analysis Date: **15-Jun-2024 19:21**
Client ID: Run ID: **VOA7_469580** SeqNo: **8073881** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Carbon disulfide	38.58	2.0	40	0	96.4	64 - 133	38.03	1.43	20	
Carbon tetrachloride	18.21	1.0	20	0	91.1	72 - 136	18.26	0.225	20	
Chlorobenzene	20.27	1.0	20	0	101	82 - 118	19.92	1.73	20	
Chloroethane	19.8	1.0	20	0	99.0	60 - 138	19.16	3.33	20	
Chloroform	19.74	1.0	20	0	98.7	79 - 124	18.89	4.42	20	
Chloromethane	19.1	1.0	20	0	95.5	50 - 139	19.13	0.194	20	
cis-1,2-Dichloroethene	19.84	1.0	20	0	99.2	78 - 123	18.97	4.47	20	
cis-1,3-Dichloropropene	18.51	1.0	20	0	92.5	75 - 124	18.21	1.61	20	
Dibromochloromethane	18.86	1.0	20	0	94.3	74 - 126	18.36	2.66	20	
Dibromomethane	19.32	1.0	20	0	96.6	79 - 123	19.14	0.929	20	
Dichlorodifluoromethane	18.85	1.0	20	0	94.3	32 - 152	18.28	3.1	20	
Ethylbenzene	20.3	1.0	20	0	101	79 - 121	19.84	2.28	20	
Hexachlorobutadiene	20.86	2.0	20	0	104	66 - 134	21.04	0.866	20	
Isopropylbenzene	20.25	1.0	20	0	101	72 - 131	20.03	1.11	20	
m,p-Xylene	40.85	2.0	40	0	102	80 - 121	40.57	0.689	20	
Methylene chloride	20.23	2.0	20	0	101	74 - 124	18.79	7.42	20	
Naphthalene	19.76	1.0	20	0	98.8	61 - 128	19.72	0.212	20	
n-Butylbenzene	20.4	1.0	20	0	102	75 - 128	20.31	0.441	20	
n-Propylbenzene	20.38	1.0	20	0	102	76 - 126	20.35	0.16	20	
o-Xylene	20.49	1.0	20	0	102	78 - 122	20.35	0.693	20	
sec-Butylbenzene	21.1	1.0	20	0	105	77 - 126	20.95	0.719	20	
Styrene	20.64	1.0	20	0	103	78 - 123	20.27	1.81	20	
tert-Butylbenzene	20.98	1.0	20	0	105	78 - 124	20.5	2.35	20	
Tetrachloroethene	20.07	1.0	20	0	100	74 - 129	19.77	1.53	20	
Toluene	20.15	1.0	20	0	101	80 - 121	20.22	0.337	20	
trans-1,2-Dichloroethene	19.34	1.0	20	0	96.7	75 - 124	17.61	9.35	20	
trans-1,3-Dichloropropene	18.51	1.0	20	0	92.5	73 - 127	18.21	1.61	20	
Trichloroethene	19.43	1.0	20	0	97.1	79 - 123	19.02	2.15	20	
Trichlorofluoromethane	19.44	1.0	20	0	97.2	65 - 141	18.12	7.04	20	
Vinyl chloride	19.22	1.0	20	0	96.1	58 - 137	18.79	2.25	20	
Surr: 1,2-Dichloroethane-d4	*51.37*	*35*	*50*	*0*	*103*	*81 - 118*	*47.94*	*6.91*	*20*	
Surr: 4-Bromofluorobenzene	*51.88*	*35*	*50*	*0*	*104*	*85 - 114*	*51.19*	*1.34*	*20*	
Surr: Dibromofluoromethane	*51.09*	*35*	*50*	*0*	*102*	*80 - 119*	*48.36*	*5.5*	*20*	
Surr: Toluene-d8	*52.49*	*35*	*50*	*0*	*105*	*89 - 112*	*52.34*	*0.29*	*20*	

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060747

QC BATCH REPORT

Batch ID: R469580 (0) **Instrument:** VOA7 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MS Sample ID: **HS24060434-01MS** Units: **ug/L** Analysis Date: **15-Jun-2024 22:01**
Client ID: Run ID: **VOA7_469580** SeqNo: **8073886** PrepDate: DF: **250**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	4013	250	5000	0	80.3	78 - 124				
1,1,1-Trichloroethane	4100	250	5000	0	82.0	74 - 131				
1,1,2,2-Tetrachloroethane	3920	250	5000	0	78.4	71 - 121				
1,1,2-Trichloroethane	3999	250	5000	0	80.0	80 - 119				S
1,1-Dichloroethane	3951	250	5000	0	79.0	77 - 125				
1,1-Dichloroethene	4371	250	5000	177.7	83.9	71 - 131				
1,1-Dichloropropene	4139	250	5000	0	82.8	78 - 125				
1,2,3-Trichlorobenzene	3282	250	5000	0	65.6	69 - 129				S
1,2,3-Trichloropropane	3813	250	5000	0	76.3	73 - 122				
1,2,4-Trichlorobenzene	3605	250	5000	0	72.1	69 - 130				
1,2,4-Trimethylbenzene	4072	250	5000	0	81.4	76 - 124				
1,2-Dibromo-3-chloropropane	3449	250	5000	0	69.0	62 - 128				
1,2-Dibromoethane	3831	250	5000	0	76.6	77 - 121				S
1,2-Dichlorobenzene	3820	250	5000	0	76.4	80 - 119				S
1,2-Dichloroethane	3950	250	5000	0	79.0	73 - 128				
1,2-Dichloropropane	4042	250	5000	0	80.8	78 - 122				
1,3,5-Trimethylbenzene	4083	250	5000	0	81.7	75 - 124				
1,3-Dichlorobenzene	3979	250	5000	0	79.6	80 - 119				S
1,3-Dichloropropane	4011	250	5000	0	80.2	80 - 119				
1,4-Dichlorobenzene	3888	250	5000	0	77.8	79 - 118				S
2,2-Dichloropropane	3711	250	5000	0	74.2	60 - 139				
2-Butanone	7968	500	10000	0	79.7	56 - 143				
2-Chlorotoluene	3993	250	5000	0	79.9	79 - 122				
2-Hexanone	7845	500	10000	0	78.4	57 - 139				
4-Chlorotoluene	3998	250	5000	0	80.0	78 - 122				
4-Isopropyltoluene	4031	250	5000	0	80.6	77 - 127				
4-Methyl-2-pentanone	8143	500	10000	0	81.4	67 - 130				
Acetone	8007	500	10000	0	80.1	39 - 160				
Benzene	4140	250	5000	0	82.8	79 - 120				
Bromobenzene	3977	250	5000	0	79.5	80 - 120				S
Bromochloromethane	3948	250	5000	0	79.0	78 - 123				
Bromodichloromethane	3562	250	5000	0	71.2	79 - 125				S
Bromoform	3646	250	5000	0	72.9	66 - 130				
Bromomethane	4330	250	5000	0	86.6	53 - 141				

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060747

QC BATCH REPORT

Batch ID: R469580 (0) **Instrument:** VOA7 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MS Sample ID: **HS24060434-01MS** Units: **ug/L** Analysis Date: **15-Jun-2024 22:01**
Client ID: Run ID: **VOA7_469580** SeqNo: **8073886** PrepDate: DF: **250**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	8312	500	10000	0	83.1	64 - 133				
Carbon tetrachloride	4009	250	5000	0	80.2	72 - 136				
Chlorobenzene	4010	250	5000	0	80.2	82 - 118				S
Chloroethane	4365	250	5000	0	87.3	60 - 138				
Chloroform	4116	250	5000	0	82.3	79 - 124				
Chloromethane	4282	250	5000	0	85.6	50 - 139				
cis-1,2-Dichloroethene	24020	250	5000	20600	68.4	78 - 123				SO
cis-1,3-Dichloropropene	3806	250	5000	0	76.1	75 - 124				
Dibromochloromethane	3633	250	5000	0	72.7	74 - 126				S
Dibromomethane	3906	250	5000	0	78.1	79 - 123				S
Dichlorodifluoromethane	4195	250	5000	0	83.9	32 - 152				
Ethylbenzene	4116	250	5000	0	82.3	79 - 121				
Hexachlorobutadiene	3892	250	5000	0	77.8	66 - 134				
Isopropylbenzene	4132	250	5000	0	82.6	72 - 131				
m,p-Xylene	8356	500	10000	0	83.6	80 - 121				
Methylene chloride	4223	500	5000	0	84.5	74 - 124				
Naphthalene	3240	250	5000	0	64.8	61 - 128				
n-Butylbenzene	3996	250	5000	0	79.9	75 - 128				
n-Propylbenzene	4081	250	5000	0	81.6	76 - 126				
o-Xylene	4076	250	5000	0	81.5	78 - 122				
sec-Butylbenzene	4105	250	5000	0	82.1	77 - 126				
Styrene	4060	250	5000	0	81.2	78 - 123				
tert-Butylbenzene	4081	250	5000	0	81.6	78 - 124				
Tetrachloroethene	4156	250	5000	0	83.1	74 - 129				
Toluene	4144	250	5000	0	82.9	80 - 121				
trans-1,2-Dichloroethene	4184	250	5000	0	83.7	75 - 124				
trans-1,3-Dichloropropene	3806	250	5000	0	76.1	73 - 127				
Trichloroethene	8907	250	5000	4887	80.4	79 - 123				
Trichlorofluoromethane	4148	250	5000	0	83.0	65 - 141				
Vinyl chloride	4362	250	5000	0	87.2	58 - 137				
Surr: 1,2-Dichloroethane-d4	*14540*	*8800*	*12500*	*0*	*116*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*13530*	*8800*	*12500*	*0*	*108*	*85 - 114*				
Surr: Dibromofluoromethane	*14400*	*8800*	*12500*	*0*	*115*	*80 - 119*				
Surr: Toluene-d8	*15030*	*8800*	*12500*	*0*	*120*	*89 - 112*				S

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060747

QC BATCH REPORT

Batch ID: R469580 (0) **Instrument:** VOA7 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MSD Sample ID: **HS24060434-01MSD** Units: **ug/L** Analysis Date: **15-Jun-2024 22:24**
Client ID: Run ID: **VOA7_469580** SeqNo: **8073887** PrepDate: DF: **250**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	3957	250	5000	0	79.1	78 - 124	4013	1.4	20	
1,1,1-Trichloroethane	3888	250	5000	0	77.8	74 - 131	4100	5.31	20	
1,1,2,2-Tetrachloroethane	3817	250	5000	0	76.3	71 - 121	3920	2.66	20	
1,1,2-Trichloroethane	4031	250	5000	0	80.6	80 - 119	3999	0.79	20	
1,1-Dichloroethane	3822	250	5000	0	76.4	77 - 125	3951	3.3	20	S
1,1-Dichloroethene	4117	250	5000	177.7	78.8	71 - 131	4371	6	20	
1,1-Dichloropropene	3954	250	5000	0	79.1	78 - 125	4139	4.57	20	
1,2,3-Trichlorobenzene	3295	250	5000	0	65.9	69 - 129	3282	0.418	20	S
1,2,3-Trichloropropane	3923	250	5000	0	78.5	73 - 122	3813	2.84	20	
1,2,4-Trichlorobenzene	3602	250	5000	0	72.0	69 - 130	3605	0.104	20	
1,2,4-Trimethylbenzene	3869	250	5000	0	77.4	76 - 124	4072	5.13	20	
1,2-Dibromo-3-chloropropane	3431	250	5000	0	68.6	62 - 128	3449	0.546	20	
1,2-Dibromoethane	3918	250	5000	0	78.4	77 - 121	3831	2.23	20	
1,2-Dichlorobenzene	3828	250	5000	0	76.6	80 - 119	3820	0.216	20	S
1,2-Dichloroethane	3967	250	5000	0	79.3	73 - 128	3950	0.424	20	
1,2-Dichloropropane	3899	250	5000	0	78.0	78 - 122	4042	3.61	20	S
1,3,5-Trimethylbenzene	3888	250	5000	0	77.8	75 - 124	4083	4.88	20	
1,3-Dichlorobenzene	3832	250	5000	0	76.6	80 - 119	3979	3.76	20	S
1,3-Dichloropropane	3888	250	5000	0	77.8	80 - 119	4011	3.11	20	S
1,4-Dichlorobenzene	3834	250	5000	0	76.7	79 - 118	3888	1.39	20	S
2,2-Dichloropropane	3586	250	5000	0	71.7	60 - 139	3711	3.42	20	
2-Butanone	8226	500	10000	0	82.3	56 - 143	7968	3.18	20	
2-Chlorotoluene	3910	250	5000	0	78.2	79 - 122	3993	2.1	20	S
2-Hexanone	7162	500	10000	0	71.6	57 - 139	7845	9.09	20	
4-Chlorotoluene	3842	250	5000	0	76.8	78 - 122	3998	3.98	20	S
4-Isopropyltoluene	3956	250	5000	0	79.1	77 - 127	4031	1.88	20	
4-Methyl-2-pentanone	7965	500	10000	0	79.6	67 - 130	8143	2.21	20	
Acetone	9125	500	10000	0	91.3	39 - 160	8007	13	20	
Benzene	3957	250	5000	0	79.1	79 - 120	4140	4.54	20	
Bromobenzene	3942	250	5000	0	78.8	80 - 120	3977	0.891	20	S
Bromochloromethane	4001	250	5000	0	80.0	78 - 123	3948	1.33	20	
Bromodichloromethane	3480	250	5000	0	69.6	79 - 125	3562	2.35	20	S
Bromoform	3667	250	5000	0	73.3	66 - 130	3646	0.581	20	
Bromomethane	4028	250	5000	0	80.6	53 - 141	4330	7.22	20	

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060747

QC BATCH REPORT

Batch ID: R469580 (0) **Instrument:** VOA7 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MSD Sample ID: **HS24060434-01MSD** Units: **ug/L** Analysis Date: **15-Jun-2024 22:24**
Client ID: Run ID: **VOA7_469580** SeqNo: **8073887** PrepDate: DF: **250**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Carbon disulfide	8043	500	10000	0	80.4	64 - 133	8312	3.29	20	
Carbon tetrachloride	3898	250	5000	0	78.0	72 - 136	4009	2.8	20	
Chlorobenzene	3941	250	5000	0	78.8	82 - 118	4010	1.74	20	S
Chloroethane	4136	250	5000	0	82.7	60 - 138	4365	5.38	20	
Chloroform	3916	250	5000	0	78.3	79 - 124	4116	4.99	20	S
Chloromethane	4019	250	5000	0	80.4	50 - 139	4282	6.34	20	
cis-1,2-Dichloroethene	23650	250	5000	20600	61.0	78 - 123	24020	1.56	20	SO
cis-1,3-Dichloropropene	3685	250	5000	0	73.7	75 - 124	3806	3.23	20	S
Dibromochloromethane	3535	250	5000	0	70.7	74 - 126	3633	2.73	20	S
Dibromomethane	3948	250	5000	0	79.0	79 - 123	3906	1.07	20	S
Dichlorodifluoromethane	4081	250	5000	0	81.6	32 - 152	4195	2.76	20	
Ethylbenzene	4046	250	5000	0	80.9	79 - 121	4116	1.7	20	
Hexachlorobutadiene	3778	250	5000	0	75.6	66 - 134	3892	2.97	20	
Isopropylbenzene	4029	250	5000	0	80.6	72 - 131	4132	2.52	20	
m,p-Xylene	7766	500	10000	0	77.7	80 - 121	8356	7.32	20	S
Methylene chloride	4243	500	5000	0	84.9	74 - 124	4223	0.466	20	
Naphthalene	3351	250	5000	0	67.0	61 - 128	3240	3.39	20	
n-Butylbenzene	3806	250	5000	0	76.1	75 - 128	3996	4.87	20	
n-Propylbenzene	3944	250	5000	0	78.9	76 - 126	4081	3.42	20	
o-Xylene	3938	250	5000	0	78.8	78 - 122	4076	3.43	20	
sec-Butylbenzene	3970	250	5000	0	79.4	77 - 126	4105	3.33	20	
Styrene	3881	250	5000	0	77.6	78 - 123	4060	4.52	20	S
tert-Butylbenzene	3927	250	5000	0	78.5	78 - 124	4081	3.85	20	
Tetrachloroethene	3906	250	5000	0	78.1	74 - 129	4156	6.21	20	
Toluene	3998	250	5000	0	80.0	80 - 121	4144	3.59	20	S
trans-1,2-Dichloroethene	4026	250	5000	0	80.5	75 - 124	4184	3.86	20	
trans-1,3-Dichloropropene	3685	250	5000	0	73.7	73 - 127	3806	3.23	20	
Trichloroethene	8673	250	5000	4887	75.7	79 - 123	8907	2.67	20	S
Trichlorofluoromethane	4091	250	5000	0	81.8	65 - 141	4148	1.36	20	
Vinyl chloride	4146	250	5000	0	82.9	58 - 137	4362	5.07	20	
Surr: 1,2-Dichloroethane-d4	*14900*	*8800*	*12500*	*0*	*119*	*81 - 118*	*14540*	*2.45*	*20*	S
Surr: 4-Bromofluorobenzene	*14030*	*8800*	*12500*	*0*	*112*	*85 - 114*	*13530*	*3.67*	*20*	
Surr: Dibromofluoromethane	*15000*	*8800*	*12500*	*0*	*120*	*80 - 119*	*14400*	*4.08*	*20*	S
Surr: Toluene-d8	*15420*	*8800*	*12500*	*0*	*123*	*89 - 112*	*15030*	*2.56*	*20*	S

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client:	Bhate Environmental Associates, Inc.
Project:	LHAAP 18 24
WorkOrder:	HS24060747

QC BATCH REPORT

Batch ID:	**R469580 (0)**	**Instrument:**	**VOA7**	**Method:**	**VOLATILES ORGANICS BY METHOD 8260C**

The following samples were analyzed in this batch: HS24060747-10

Revision: 1

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060747

QC BATCH REPORT

Batch ID: R470169 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MBLK Sample ID: **VBLKW-240621** Units: **ug/L** Analysis Date: **21-Jun-2024 11:32**
Client ID: Run ID: **VOA9_470169** SeqNo: **8092492** 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	0.50	1.0								U
1,1,1-Trichloroethane	0.50	1.0								U
1,1,2,2-Tetrachloroethane	1.0	1.0								U
1,1,2-Trichloroethane	0.50	1.0								U
1,1-Dichloroethane	0.50	1.0								U
1,1-Dichloroethene	0.50	1.0								U
1,1-Dichloropropene	0.50	1.0								U
1,2,3-Trichlorobenzene	0.50	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	0.50	1.0								U
1,2-Dibromo-3-chloropropane	0.50	1.0								U
1,2-Dibromoethane	0.50	1.0								U
1,2-Dichlorobenzene	1.0	1.0								U
1,2-Dichloroethane	0.50	1.0								U
1,2-Dichloropropane	1.0	1.0								U
1,3,5-Trimethylbenzene	0.50	1.0								U
1,3-Dichlorobenzene	0.50	1.0								U
1,3-Dichloropropane	0.50	1.0								U
1,4-Dichlorobenzene	0.50	1.0								U
2,2-Dichloropropane	0.50	1.0								U
2-Butanone	1.0	2.0								U
2-Chlorotoluene	0.50	1.0								U
2-Hexanone	2.0	2.0								U
4-Chlorotoluene	0.50	1.0								U
4-Isopropyltoluene	0.50	1.0								U
4-Methyl-2-pentanone	1.0	2.0								U
Acetone	0.50	2.0								U
Benzene	0.50	1.0								U
Bromobenzene	0.50	1.0								U
Bromochloromethane	0.50	1.0								U
Bromodichloromethane	0.50	1.0								U
Bromoform	0.50	1.0								U
Bromomethane	0.50	1.0								U

Revision: 1

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060747

QC BATCH REPORT

Batch ID: R470169 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MBLK Sample ID: **VBLKW-240621** Units: **ug/L** Analysis Date: **21-Jun-2024 11:32**
Client ID: Run ID: **VOA9_470169** SeqNo: **8092492** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	2.0	2.0								U
Carbon tetrachloride	1.0	1.0								U
Chlorobenzene	0.50	1.0								U
Chloroethane	0.50	1.0								U
Chloroform	0.50	1.0								U
Chloromethane	0.50	1.0								U
cis-1,2-Dichloroethene	0.50	1.0								U
cis-1,3-Dichloropropene	0.50	1.0								U
Dibromochloromethane	0.50	1.0								U
Dibromomethane	0.50	1.0								U
Dichlorodifluoromethane	0.50	1.0								U
Ethylbenzene	0.50	1.0								U
Hexachlorobutadiene	2.0	2.0								U
Isopropylbenzene	0.50	1.0								U
m,p-Xylene	1.0	2.0								U
Methylene chloride	1.0	2.0								U
Naphthalene	0.50	1.0								U
n-Butylbenzene	1.0	1.0								U
n-Propylbenzene	0.50	1.0								U
o-Xylene	0.50	1.0								U
sec-Butylbenzene	0.50	1.0								U
Styrene	0.50	1.0								U
tert-Butylbenzene	0.50	1.0								U
Tetrachloroethene	0.50	1.0								U
Toluene	0.50	1.0								U
trans-1,2-Dichloroethene	0.50	1.0								U
trans-1,3-Dichloropropene	0.50	1.0								U
Trichloroethene	0.50	1.0								U
Trichlorofluoromethane	0.50	1.0								U
Vinyl chloride	0.50	1.0								U
Surr: 1,2-Dichloroethane-d4	*52.12*	*35*	*50*	*0*	*104*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*50.79*	*35*	*50*	*0*	*102*	*85 - 114*				
Surr: Dibromofluoromethane	*54.48*	*35*	*50*	*0*	*109*	*80 - 119*				
Surr: Toluene-d8	*55.19*	*35*	*50*	*0*	*110*	*89 - 112*				

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060747

QC BATCH REPORT

Batch ID: R470169 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

LCS Sample ID: **VLCSW-240621** Units: **ug/L** Analysis Date: **21-Jun-2024 10:28**
Client ID: Run ID: **VOA9_470169** SeqNo: **8092490** 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	18.74	1.0	20	0	93.7	78 - 124				
1,1,1-Trichloroethane	19.46	1.0	20	0	97.3	74 - 131				
1,1,2,2-Tetrachloroethane	19.27	1.0	20	0	96.4	71 - 121				
1,1,2-Trichloroethane	18.49	1.0	20	0	92.5	80 - 119				
1,1-Dichloroethane	15.93	1.0	20	0	79.7	77 - 125				
1,1-Dichloroethene	16.62	1.0	20	0	83.1	71 - 131				
1,1-Dichloropropene	18.7	1.0	20	0	93.5	78 - 125				
1,2,3-Trichlorobenzene	20.06	1.0	20	0	100	69 - 129				
1,2,3-Trichloropropane	18.46	1.0	20	0	92.3	73 - 122				
1,2,4-Trichlorobenzene	20.14	1.0	20	0	101	69 - 130				
1,2,4-Trimethylbenzene	18.57	1.0	20	0	92.9	76 - 124				
1,2-Dibromo-3-chloropropane	19.63	1.0	20	0	98.1	62 - 128				
1,2-Dibromoethane	18.4	1.0	20	0	92.0	77 - 121				
1,2-Dichlorobenzene	18.37	1.0	20	0	91.8	80 - 119				
1,2-Dichloroethane	18.71	1.0	20	0	93.5	73 - 128				
1,2-Dichloropropane	17.71	1.0	20	0	88.6	78 - 122				
1,3,5-Trimethylbenzene	18.79	1.0	20	0	94.0	75 - 124				
1,3-Dichlorobenzene	18.68	1.0	20	0	93.4	80 - 119				
1,3-Dichloropropane	18.26	1.0	20	0	91.3	80 - 119				
1,4-Dichlorobenzene	19.99	1.0	20	0	100.0	79 - 118				
2,2-Dichloropropane	18.81	1.0	20	0	94.0	60 - 139				
2-Butanone	34.82	2.0	40	0	87.0	56 - 143				
2-Chlorotoluene	18.8	1.0	20	0	94.0	79 - 122				
2-Hexanone	36.82	2.0	40	0	92.0	57 - 139				
4-Chlorotoluene	19.35	1.0	20	0	96.8	78 - 122				
4-Isopropyltoluene	19.06	1.0	20	0	95.3	77 - 127				
4-Methyl-2-pentanone	34.82	2.0	40	0	87.1	67 - 130				
Acetone	28.57	2.0	40	0	71.4	39 - 160				
Benzene	17.73	1.0	20	0	88.7	79 - 120				
Bromobenzene	19.37	1.0	20	0	96.8	80 - 120				
Bromochloromethane	17.38	1.0	20	0	86.9	78 - 123				
Bromodichloromethane	18.13	1.0	20	0	90.7	79 - 125				
Bromoform	18.45	1.0	20	0	92.3	66 - 130				
Bromomethane	18.75	1.0	20	0	93.8	53 - 141				

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060747

QC BATCH REPORT

Batch ID: R470169 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

LCS Sample ID: **VLCSW-240621** Units: **ug/L** Analysis Date: **21-Jun-2024 10:28**
Client ID: Run ID: **VOA9_470169** SeqNo: **8092490** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	33.55	2.0	40	0	83.9	64 - 133				
Carbon tetrachloride	19.53	1.0	20	0	97.7	72 - 136				
Chlorobenzene	19.94	1.0	20	0	99.7	82 - 118				
Chloroethane	15.16	1.0	20	0	75.8	60 - 138				
Chloroform	18.86	1.0	20	0	94.3	79 - 124				
Chloromethane	17.29	1.0	20	0	86.4	50 - 139				
cis-1,2-Dichloroethene	18.34	1.0	20	0	91.7	78 - 123				
cis-1,3-Dichloropropene	18.35	1.0	20	0	91.8	75 - 124				
Dibromochloromethane	19.49	1.0	20	0	97.4	74 - 126				
Dibromomethane	18.11	1.0	20	0	90.6	79 - 123				
Dichlorodifluoromethane	19.38	1.0	20	0	96.9	32 - 152				
Ethylbenzene	19.38	1.0	20	0	96.9	79 - 121				
Hexachlorobutadiene	21.38	2.0	20	0	107	66 - 134				
Isopropylbenzene	20.9	1.0	20	0	105	72 - 131				
m,p-Xylene	40.46	2.0	40	0	101	80 - 121				
Methylene chloride	16.32	2.0	20	0	81.6	74 - 124				
Naphthalene	18.58	1.0	20	0	92.9	61 - 128				
n-Butylbenzene	19.46	1.0	20	0	97.3	75 - 128				
n-Propylbenzene	19.75	1.0	20	0	98.7	76 - 126				
o-Xylene	20.25	1.0	20	0	101	78 - 122				
sec-Butylbenzene	20.41	1.0	20	0	102	77 - 126				
Styrene	20.32	1.0	20	0	102	78 - 123				
tert-Butylbenzene	20.77	1.0	20	0	104	78 - 124				
Tetrachloroethene	20.9	1.0	20	0	104	74 - 129				
Toluene	19.06	1.0	20	0	95.3	80 - 121				
trans-1,2-Dichloroethene	17.23	1.0	20	0	86.1	75 - 124				
trans-1,3-Dichloropropene	17.95	1.0	20	0	89.7	73 - 127				
Trichloroethene	19.03	1.0	20	0	95.1	79 - 123				
Trichlorofluoromethane	17.9	1.0	20	0	89.5	65 - 141				
Vinyl chloride	16.66	1.0	20	0	83.3	58 - 137				
Surr: 1,2-Dichloroethane-d4	*50*	*35*	*50*	*0*	*100*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*54.4*	*35*	*50*	*0*	*109*	*85 - 114*				
Surr: Dibromofluoromethane	*53.76*	*35*	*50*	*0*	*108*	*80 - 119*				
Surr: Toluene-d8	*55.43*	*35*	*50*	*0*	*111*	*89 - 112*				

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060747

QC BATCH REPORT

Batch ID: R470169 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

LCSD Sample ID: **VLCSDW-240621** Units: **ug/L** Analysis Date: **21-Jun-2024 10:50**
Client ID: Run ID: **VOA9_470169** SeqNo: **8092491** 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	18.76	1.0	20	0	93.8	78 - 124	18.74	0.0915	20	
1,1,1-Trichloroethane	18.97	1.0	20	0	94.9	74 - 131	19.46	2.51	20	
1,1,2,2-Tetrachloroethane	18.47	1.0	20	0	92.3	71 - 121	19.27	4.26	20	
1,1,2-Trichloroethane	18.09	1.0	20	0	90.4	80 - 119	18.49	2.21	20	
1,1-Dichloroethane	15.75	1.0	20	0	78.7	77 - 125	15.93	1.16	20	
1,1-Dichloroethene	16.18	1.0	20	0	80.9	71 - 131	16.62	2.66	20	
1,1-Dichloropropene	18.88	1.0	20	0	94.4	78 - 125	18.7	0.934	20	
1,2,3-Trichlorobenzene	19.47	1.0	20	0	97.3	69 - 129	20.06	2.98	20	
1,2,3-Trichloropropane	17.87	1.0	20	0	89.3	73 - 122	18.46	3.26	20	
1,2,4-Trichlorobenzene	19.21	1.0	20	0	96.0	69 - 130	20.14	4.74	20	
1,2,4-Trimethylbenzene	17.46	1.0	20	0	87.3	76 - 124	18.57	6.19	20	
1,2-Dibromo-3-chloropropane	19.34	1.0	20	0	96.7	62 - 128	19.63	1.45	20	
1,2-Dibromoethane	18.36	1.0	20	0	91.8	77 - 121	18.4	0.185	20	
1,2-Dichlorobenzene	17.72	1.0	20	0	88.6	80 - 119	18.37	3.62	20	
1,2-Dichloroethane	18.68	1.0	20	0	93.4	73 - 128	18.71	0.113	20	
1,2-Dichloropropane	17.77	1.0	20	0	88.9	78 - 122	17.71	0.335	20	
1,3,5-Trimethylbenzene	18.17	1.0	20	0	90.8	75 - 124	18.79	3.39	20	
1,3-Dichlorobenzene	17.83	1.0	20	0	89.2	80 - 119	18.68	4.63	20	
1,3-Dichloropropane	18.18	1.0	20	0	90.9	80 - 119	18.26	0.483	20	
1,4-Dichlorobenzene	19.38	1.0	20	0	96.9	79 - 118	19.99	3.12	20	
2,2-Dichloropropane	18.19	1.0	20	0	90.9	60 - 139	18.81	3.35	20	
2-Butanone	35.03	2.0	40	0	87.6	56 - 143	34.82	0.608	20	
2-Chlorotoluene	18.19	1.0	20	0	90.9	79 - 122	18.8	3.28	20	
2-Hexanone	37.7	2.0	40	0	94.3	57 - 139	36.82	2.37	20	
4-Chlorotoluene	18.7	1.0	20	0	93.5	78 - 122	19.35	3.44	20	
4-Isopropyltoluene	18.35	1.0	20	0	91.8	77 - 127	19.06	3.77	20	
4-Methyl-2-pentanone	34.7	2.0	40	0	86.7	67 - 130	34.82	0.365	20	
Acetone	26.58	2.0	40	0	66.4	39 - 160	28.57	7.24	20	
Benzene	17.74	1.0	20	0	88.7	79 - 120	17.73	0.038	20	
Bromobenzene	18.75	1.0	20	0	93.8	80 - 120	19.37	3.24	20	
Bromochloromethane	17.89	1.0	20	0	89.5	78 - 123	17.38	2.9	20	
Bromodichloromethane	18.65	1.0	20	0	93.2	79 - 125	18.13	2.79	20	
Bromoform	18.44	1.0	20	0	92.2	66 - 130	18.45	0.0436	20	
Bromomethane	18.83	1.0	20	0	94.2	53 - 141	18.75	0.414	20	

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060747

QC BATCH REPORT

Batch ID: R470169 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

LCSD Sample ID: **VLCSDW-240621** Units: **ug/L** Analysis Date: **21-Jun-2024 10:50**
Client ID: Run ID: **VOA9_470169** SeqNo: **8092491** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Carbon disulfide	32.54	2.0	40	0	81.4	64 - 133	33.55	3.04	20	
Carbon tetrachloride	19.64	1.0	20	0	98.2	72 - 136	19.53	0.54	20	
Chlorobenzene	19.46	1.0	20	0	97.3	82 - 118	19.94	2.44	20	
Chloroethane	15.35	1.0	20	0	76.8	60 - 138	15.16	1.26	20	
Chloroform	18.61	1.0	20	0	93.1	79 - 124	18.86	1.29	20	
Chloromethane	16.72	1.0	20	0	83.6	50 - 139	17.29	3.31	20	
cis-1,2-Dichloroethene	18.87	1.0	20	0	94.4	78 - 123	18.34	2.87	20	
cis-1,3-Dichloropropene	18.22	1.0	20	0	91.1	75 - 124	18.35	0.702	20	
Dibromochloromethane	20.04	1.0	20	0	100	74 - 126	19.49	2.81	20	
Dibromomethane	17.91	1.0	20	0	89.5	79 - 123	18.11	1.16	20	
Dichlorodifluoromethane	18.45	1.0	20	0	92.3	32 - 152	19.38	4.9	20	
Ethylbenzene	19	1.0	20	0	95.0	79 - 121	19.38	1.97	20	
Hexachlorobutadiene	20.02	2.0	20	0	100	66 - 134	21.38	6.58	20	
Isopropylbenzene	20.19	1.0	20	0	101	72 - 131	20.9	3.48	20	
m,p-Xylene	39.5	2.0	40	0	98.7	80 - 121	40.46	2.4	20	
Methylene chloride	16.41	2.0	20	0	82.0	74 - 124	16.32	0.537	20	
Naphthalene	17.68	1.0	20	0	88.4	61 - 128	18.58	4.92	20	
n-Butylbenzene	18.25	1.0	20	0	91.3	75 - 128	19.46	6.4	20	
n-Propylbenzene	19.47	1.0	20	0	97.4	76 - 126	19.75	1.41	20	
o-Xylene	20.18	1.0	20	0	101	78 - 122	20.25	0.313	20	
sec-Butylbenzene	19.39	1.0	20	0	97.0	77 - 126	20.41	5.11	20	
Styrene	20.44	1.0	20	0	102	78 - 123	20.32	0.583	20	
tert-Butylbenzene	19.77	1.0	20	0	98.9	78 - 124	20.77	4.9	20	
Tetrachloroethene	20.12	1.0	20	0	101	74 - 129	20.9	3.77	20	
Toluene	18.81	1.0	20	0	94.0	80 - 121	19.06	1.34	20	
trans-1,2-Dichloroethene	17.16	1.0	20	0	85.8	75 - 124	17.23	0.382	20	
trans-1,3-Dichloropropene	17.85	1.0	20	0	89.3	73 - 127	17.95	0.537	20	
Trichloroethene	18.66	1.0	20	0	93.3	79 - 123	19.03	1.96	20	
Trichlorofluoromethane	17.68	1.0	20	0	88.4	65 - 141	17.9	1.23	20	
Vinyl chloride	15.94	1.0	20	0	79.7	58 - 137	16.66	4.45	20	
Surr: 1,2-Dichloroethane-d4	*50.58*	*35*	*50*	*0*	*101*	*81 - 118*	*50*	*1.14*	*20*	
Surr: 4-Bromofluorobenzene	*54.53*	*35*	*50*	*0*	*109*	*85 - 114*	*54.4*	*0.238*	*20*	
Surr: Dibromofluoromethane	*55.25*	*35*	*50*	*0*	*110*	*80 - 119*	*53.76*	*2.73*	*20*	
Surr: Toluene-d8	*55.91*	*35*	*50*	*0*	*112*	*89 - 112*	*55.43*	*0.874*	*20*	

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060747

QC BATCH REPORT

Batch ID: R470169 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MS Sample ID: **HS24060747-08MS** Units: **ug/L** Analysis Date: **21-Jun-2024 15:34**
Client ID: **CO1_061024** Run ID: **VOA9_470169** SeqNo: **8092494** 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	18.09	1.0	20	0	90.5	78 - 124				
1,1,1-Trichloroethane	19.63	1.0	20	0	98.1	74 - 131				
1,1,2,2-Tetrachloroethane	17.25	1.0	20	0	86.2	71 - 121				
1,1,2-Trichloroethane	17.31	1.0	20	0	86.5	80 - 119				
1,1-Dichloroethane	15.77	1.0	20	0	78.8	77 - 125				
1,1-Dichloroethene	16.77	1.0	20	0	83.9	71 - 131				
1,1-Dichloropropene	19.57	1.0	20	0	97.9	78 - 125				
1,2,3-Trichlorobenzene	17.55	1.0	20	0	87.7	69 - 129				
1,2,3-Trichloropropane	16.02	1.0	20	0	80.1	73 - 122				
1,2,4-Trichlorobenzene	17.12	1.0	20	0	85.6	69 - 130				
1,2,4-Trimethylbenzene	15.32	1.0	20	0	76.6	76 - 124				
1,2-Dibromo-3-chloropropane	17.36	1.0	20	0	86.8	62 - 128				
1,2-Dibromoethane	17.32	1.0	20	0	86.6	77 - 121				
1,2-Dichlorobenzene	17.31	1.0	20	0	86.5	80 - 119				
1,2-Dichloroethane	17.8	1.0	20	0	89.0	73 - 128				
1,2-Dichloropropane	17.14	1.0	20	0	85.7	78 - 122				
1,3,5-Trimethylbenzene	16.21	1.0	20	0	81.0	75 - 124				
1,3-Dichlorobenzene	17.45	1.0	20	0	87.2	80 - 119				
1,3-Dichloropropane	16.89	1.0	20	0	84.4	80 - 119				
1,4-Dichlorobenzene	18.44	1.0	20	0	92.2	79 - 118				
2,2-Dichloropropane	18.17	1.0	20	0	90.9	60 - 139				
2-Butanone	30.6	2.0	40	0	76.5	56 - 143				
2-Chlorotoluene	17.93	1.0	20	0	89.7	79 - 122				
2-Hexanone	27.93	2.0	40	0	69.8	57 - 139				
4-Chlorotoluene	17.89	1.0	20	0	89.5	78 - 122				
4-Isopropyltoluene	16.91	1.0	20	0	84.5	77 - 127				
4-Methyl-2-pentanone	30.56	2.0	40	0	76.4	67 - 130				
Acetone	19.23	2.0	40	0	48.1	39 - 160				
Benzene	17.61	1.0	20	0	88.0	79 - 120				
Bromobenzene	17.58	1.0	20	0	87.9	80 - 120				
Bromochloromethane	16.82	1.0	20	0	84.1	78 - 123				
Bromodichloromethane	17.81	1.0	20	0	89.0	79 - 125				
Bromoform	17.01	1.0	20	0	85.0	66 - 130				
Bromomethane	15.91	1.0	20	0	79.5	53 - 141				

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060747

QC BATCH REPORT

Batch ID: R470169 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MS Sample ID: **HS24060747-08MS** Units: **ug/L** Analysis Date: **21-Jun-2024 15:34**
Client ID: **CO1_061024** Run ID: **VOA9_470169** SeqNo: **8092494** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	32.43	2.0	40	0	81.1	64 - 133				
Carbon tetrachloride	20.07	1.0	20	0	100	72 - 136				
Chlorobenzene	19.19	1.0	20	0	95.9	82 - 118				
Chloroethane	15.37	1.0	20	0	76.8	60 - 138				
Chloroform	18.77	1.0	20	0	93.9	79 - 124				
Chloromethane	20.63	1.0	20	0	103	50 - 139				
cis-1,2-Dichloroethene	18.23	1.0	20	0	91.2	78 - 123				
cis-1,3-Dichloropropene	16.77	1.0	20	0	83.8	75 - 124				
Dibromochloromethane	18.44	1.0	20	0	92.2	74 - 126				
Dibromomethane	17.33	1.0	20	0	86.6	79 - 123				
Dichlorodifluoromethane	19.28	1.0	20	0	96.4	32 - 152				
Ethylbenzene	19.08	1.0	20	0	95.4	79 - 121				
Hexachlorobutadiene	19.29	2.0	20	0	96.5	66 - 134				
Isopropylbenzene	20.26	1.0	20	0	101	72 - 131				
m,p-Xylene	38.72	2.0	40	0	96.8	80 - 121				
Methylene chloride	14.7	2.0	20	0	73.5	74 - 124				S
Naphthalene	14.57	1.0	20	0	72.9	61 - 128				
n-Butylbenzene	17.59	1.0	20	0	88.0	75 - 128				
n-Propylbenzene	18.51	1.0	20	0	92.5	76 - 126				
o-Xylene	19.32	1.0	20	0	96.6	78 - 122				
sec-Butylbenzene	19.21	1.0	20	0	96.1	77 - 126				
Styrene	17.87	1.0	20	0	89.4	78 - 123				
tert-Butylbenzene	20.06	1.0	20	0	100	78 - 124				
Tetrachloroethene	21	1.0	20	0	105	74 - 129				
Toluene	18.69	1.0	20	0	93.4	80 - 121				
trans-1,2-Dichloroethene	16.8	1.0	20	0	84.0	75 - 124				
trans-1,3-Dichloropropene	16.64	1.0	20	0	83.2	73 - 127				
Trichloroethene	19.34	1.0	20	0	96.7	79 - 123				
Trichlorofluoromethane	18.72	1.0	20	0	93.6	65 - 141				
Vinyl chloride	16.69	1.0	20	0	83.5	58 - 137				
Surr: 1,2-Dichloroethane-d4	*49.7*	*35*	*50*	*0*	*99.4*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*52.9*	*35*	*50*	*0*	*106*	*85 - 114*				
Surr: Dibromofluoromethane	*53.93*	*35*	*50*	*0*	*108*	*80 - 119*				
Surr: Toluene-d8	*55.7*	*35*	*50*	*0*	*111*	*89 - 112*				

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060747

QC BATCH REPORT

Batch ID: R470169 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MSD Sample ID: **HS24060747-08MSD** Units: **ug/L** Analysis Date: **21-Jun-2024 15:55**
Client ID: **CO1_061024** Run ID: **VOA9_470169** SeqNo: **8092495** 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	17.9	1.0	20	0	89.5	78 - 124	18.09	1.09	20	
1,1,1-Trichloroethane	18.91	1.0	20	0	94.5	74 - 131	19.63	3.72	20	
1,1,2,2-Tetrachloroethane	17.09	1.0	20	0	85.5	71 - 121	17.25	0.9	20	
1,1,2-Trichloroethane	17.12	1.0	20	0	85.6	80 - 119	17.31	1.11	20	
1,1-Dichloroethane	15.05	1.0	20	0	75.3	77 - 125	15.77	4.65	20	S
1,1-Dichloroethene	15.92	1.0	20	0	79.6	71 - 131	16.77	5.22	20	
1,1-Dichloropropene	18.82	1.0	20	0	94.1	78 - 125	19.57	3.94	20	
1,2,3-Trichlorobenzene	18.61	1.0	20	0	93.0	69 - 129	17.55	5.87	20	
1,2,3-Trichloropropane	16.66	1.0	20	0	83.3	73 - 122	16.02	3.88	20	
1,2,4-Trichlorobenzene	18.35	1.0	20	0	91.8	69 - 130	17.12	6.93	20	
1,2,4-Trimethylbenzene	16.14	1.0	20	0	80.7	76 - 124	15.32	5.2	20	
1,2-Dibromo-3-chloropropane	18.15	1.0	20	0	90.7	62 - 128	17.36	4.44	20	
1,2-Dibromoethane	17.03	1.0	20	0	85.1	77 - 121	17.32	1.68	20	
1,2-Dichlorobenzene	17.35	1.0	20	0	86.7	80 - 119	17.31	0.232	20	
1,2-Dichloroethane	17.41	1.0	20	0	87.1	73 - 128	17.8	2.2	20	
1,2-Dichloropropane	16.82	1.0	20	0	84.1	78 - 122	17.14	1.9	20	
1,3,5-Trimethylbenzene	17.15	1.0	20	0	85.8	75 - 124	16.21	5.66	20	
1,3-Dichlorobenzene	17.63	1.0	20	0	88.2	80 - 119	17.45	1.06	20	
1,3-Dichloropropane	16.97	1.0	20	0	84.9	80 - 119	16.89	0.502	20	
1,4-Dichlorobenzene	18.63	1.0	20	0	93.1	79 - 118	18.44	1.02	20	
2,2-Dichloropropane	17.35	1.0	20	0	86.7	60 - 139	18.17	4.64	20	
2-Butanone	29.36	2.0	40	0	73.4	56 - 143	30.6	4.14	20	
2-Chlorotoluene	18.34	1.0	20	0	91.7	79 - 122	17.93	2.26	20	
2-Hexanone	27.68	2.0	40	0	69.2	57 - 139	27.93	0.876	20	
4-Chlorotoluene	17.94	1.0	20	0	89.7	78 - 122	17.89	0.243	20	
4-Isopropyltoluene	17.63	1.0	20	0	88.2	77 - 127	16.91	4.18	20	
4-Methyl-2-pentanone	30.29	2.0	40	0	75.7	67 - 130	30.56	0.898	20	
Acetone	17.95	2.0	40	0	44.9	39 - 160	19.23	6.89	20	
Benzene	16.95	1.0	20	0	84.7	79 - 120	17.61	3.84	20	
Bromobenzene	18.14	1.0	20	0	90.7	80 - 120	17.58	3.11	20	
Bromochloromethane	16.84	1.0	20	0	84.2	78 - 123	16.82	0.137	20	
Bromodichloromethane	17.26	1.0	20	0	86.3	79 - 125	17.81	3.16	20	
Bromoform	16.81	1.0	20	0	84.0	66 - 130	17.01	1.16	20	
Bromomethane	16.55	1.0	20	0	82.7	53 - 141	15.91	3.95	20	

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060747

QC BATCH REPORT

Batch ID: R470169 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MSD Sample ID: **HS24060747-08MSD** Units: **ug/L** Analysis Date: **21-Jun-2024 15:55**
Client ID: **CO1_061024** Run ID: **VOA9_470169** SeqNo: **8092495** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Carbon disulfide	31.63	2.0	40	0	79.1	64 - 133	32.43	2.47	20	
Carbon tetrachloride	18.92	1.0	20	0	94.6	72 - 136	20.07	5.87	20	
Chlorobenzene	19.37	1.0	20	0	96.9	82 - 118	19.19	0.962	20	
Chloroethane	14.77	1.0	20	0	73.9	60 - 138	15.37	3.95	20	
Chloroform	17.85	1.0	20	0	89.2	79 - 124	18.77	5.05	20	
Chloromethane	19.64	1.0	20	0	98.2	50 - 139	20.63	4.9	20	
cis-1,2-Dichloroethene	17.48	1.0	20	0	87.4	78 - 123	18.23	4.18	20	
cis-1,3-Dichloropropene	16.22	1.0	20	0	81.1	75 - 124	16.77	3.33	20	
Dibromochloromethane	18.37	1.0	20	0	91.9	74 - 126	18.44	0.367	20	
Dibromomethane	17.02	1.0	20	0	85.1	79 - 123	17.33	1.81	20	
Dichlorodifluoromethane	19.15	1.0	20	0	95.7	32 - 152	19.28	0.693	20	
Ethylbenzene	18.91	1.0	20	0	94.5	79 - 121	19.08	0.887	20	
Hexachlorobutadiene	20.37	2.0	20	0	102	66 - 134	19.29	5.46	20	
Isopropylbenzene	20.19	1.0	20	0	101	72 - 131	20.26	0.329	20	
m,p-Xylene	39.29	2.0	40	0	98.2	80 - 121	38.72	1.48	20	
Methylene chloride	14.1	2.0	20	0	70.5	74 - 124	14.7	4.22	20	S
Naphthalene	16.14	1.0	20	0	80.7	61 - 128	14.57	10.3	20	
n-Butylbenzene	18.04	1.0	20	0	90.2	75 - 128	17.59	2.52	20	
n-Propylbenzene	19.05	1.0	20	0	95.2	76 - 126	18.51	2.89	20	
o-Xylene	19.7	1.0	20	0	98.5	78 - 122	19.32	1.94	20	
sec-Butylbenzene	19.65	1.0	20	0	98.2	77 - 126	19.21	2.22	20	
Styrene	17.95	1.0	20	0	89.7	78 - 123	17.87	0.413	20	
tert-Butylbenzene	20.39	1.0	20	0	102	78 - 124	20.06	1.64	20	
Tetrachloroethene	20.65	1.0	20	0	103	74 - 129	21	1.72	20	
Toluene	18.51	1.0	20	0	92.6	80 - 121	18.69	0.922	20	
trans-1,2-Dichloroethene	16.24	1.0	20	0	81.2	75 - 124	16.8	3.36	20	
trans-1,3-Dichloropropene	16.24	1.0	20	0	81.2	73 - 127	16.64	2.43	20	
Trichloroethene	19.34	1.0	20	0	96.7	79 - 123	19.34	0.0406	20	
Trichlorofluoromethane	17.77	1.0	20	0	88.9	65 - 141	18.72	5.22	20	
Vinyl chloride	16.25	1.0	20	0	81.3	58 - 137	16.69	2.65	20	
Surr: 1,2-Dichloroethane-d4	*49.31*	*35*	*50*	*0*	*98.6*	*81 - 118*	*49.7*	*0.8*	*20*	
Surr: 4-Bromofluorobenzene	*53.96*	*35*	*50*	*0*	*108*	*85 - 114*	*52.9*	*1.98*	*20*	
Surr: Dibromofluoromethane	*53.49*	*35*	*50*	*0*	*107*	*80 - 119*	*53.93*	*0.826*	*20*	
Surr: Toluene-d8	*55.37*	*35*	*50*	*0*	*111*	*89 - 112*	*55.7*	*0.594*	*20*	

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060747

QC BATCH REPORT

Batch ID: R470169 (0)	Instrument: VOA9	Method: VOLATILES ORGANICS BY METHOD 8260C

The following samples were analyzed in this batch:

HS24060747-01	HS24060747-02	HS24060747-03	HS24060747-04
HS24060747-05	HS24060747-06	HS24060747-07	HS24060747-08
HS24060747-09			

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: **HS24060747**

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

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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
Dept of Defense	L22-90-R2	30-Apr-2026
Florida	E87611-38	30-Jun-2025
Illinois	2000322023-11	31-Jul-2025
Kansas	E-10352 2023-2024	31-Jul-2025
Kentucky	123043	30-Apr-2025
Louisiana	03087 2023-2024	30-Jun-2025
Maine	2024017	23-Jun-2026
Michigan	9971	30-Apr-2025
Nebraska	NE-OS-25-13	30-Apr-2025
New Jersey	TX008	30-Jun-2025
North Carolina	624 - 2024	31-Dec-2024
North Dakota	R-193 2023-2024	30-Sep-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-2025

ALS Houston, US Date: 30-Aug-24

Sample Receipt Checklist

Work Order ID: HS24060747 **Date/Time Received:** 12-Jun-2024 09:55

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

Completed By:	/S/ Michael Lucio	12-Jun-2024 20:48	**Reviewed by:**	/S/ Luis.Aguilar	13-Jun-2024 09:42
	eSignature	Date/Time		eSignature	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 ☐	2 Page(s)
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
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):	1.8uc/1.9c	IR31
Cooler(s)/Kit(s):	2759	
Date/Time sample(s) sent to storage:	06/12/2024 20:49	

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

HS24060747

Bhate Environmental Associates, Inc.
LHAAP 18 24

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 / BILL to PCI

Project/Site Name: LHAAP / Site 18/24

Client Name:

Collected by: Scott Beesinger

Sample Analysis Requested[5]

Field Sample ID (10 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	PERCHLORATE	TOTAL METALS	1,4 - DIOXANE						Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
1824DPTmw65_061024	10-Jun-2024	0735	-	N		wb	5	X	X		X									
1824DPmw65_061024_a	10-Jun-2024	0735	-	FD		wb	5	X	X		X									
129_061024	10-Jun-2024	0825	-	N		wb	6	X	X	X	X									
120_061024	10-Jun-2024	0911		N		wb	5	X	X		X									
mw14_061024	10-Jun-2024	0955		N		wb	6	X	X	X	X									
mw23_061024	10-Jun-2024	1040	-	N		wb	4	X	X											
C09_061024	10-Jun-2024	1125	-	N		wb	5	X	X	X										
Col_061024	10-Jun-2024	1215	-	N		wb	4	X	X											
Col_061024_ms	10-Jun-2024	1215	-	MS		wb	4	X	X											
Col_061024_msd	10-Jun-2024	1215	-	SD		wb	4	X	X											
126_061024	10-Jun-2024	1300	-	N		wb	6	X	X	X	X									

COMMENTS: STANDARD TAT Cooler 2259 Temp 1.5 2nd 3.1 COC-60 1

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (Signed)	Date	Time
1. Scott Beesinger	6/11/24	1400	1.		
2.			2.		
3.			3. Gm	06/11/24	09:55

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: _____ Shipped No.: _____

Method of Shipment: _____

_____ Fed _____ Ex _____ Airbill Number: _____

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

ATTN: Dana Wessey 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

1609 13th Avenue South, Suite 300
Birmingham Alabama 35205
Tel: 205-918-4000
Fax: 205-918-4050

Chain of Custody and Analytical Request

HS24060747

Bhate Environmental Associates, Inc.
LHAAP 18 24

Facility/Base I.D.: LHAAP / BILL to PCI

Project/Site Name: LHAAP / Site 18/24

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)	Sample Analysis Requested (5): Number of containers	VOC	PERCHLORATE	TOTAL METALS	1, 4 - DIOXANE							Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
Trip Blank	10 June 2024		-	TB		W	2	X													
			-																		
			-																		
			-																		
			-																		
			-																		
			-																		
			-																		
			-																		

COMMENTS: STANDARD TAT

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (Signed)	Date	Time
1. Scott Beesinger	6/11/24	1400	1.		
2.			2.		
3.			3. SM	06/12/24	09:55

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: _____ Shipped No.:

_____ Method of Shipment: _____

_____ Fed Ex _____ Airbill Number:

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

ATTN: Dana Wagaey 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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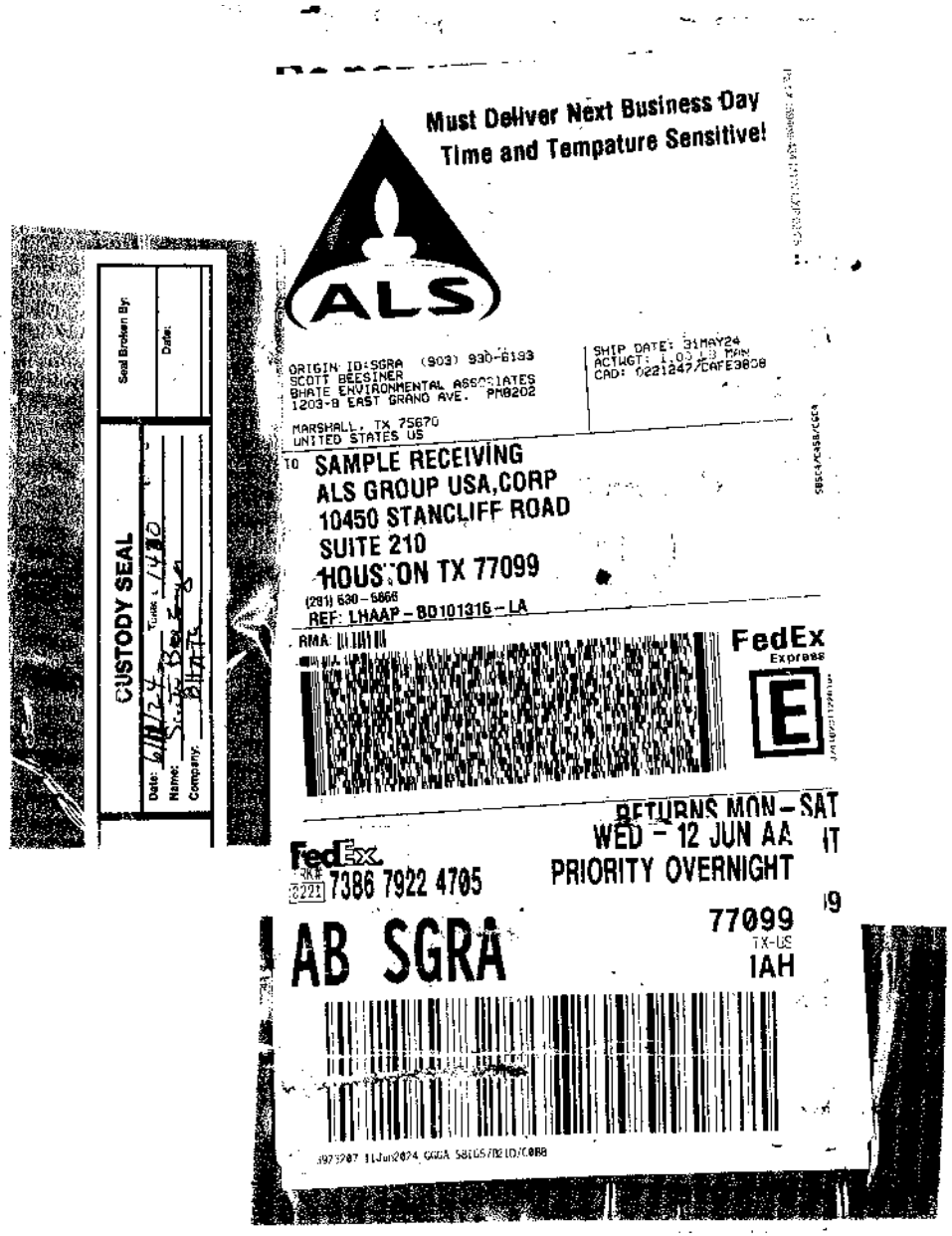

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June 25, 2024 Service Request No:E2400687

Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099

Laboratory Results for: HS24060747

Dear Luis,

Enclosed are the results of the sample(s) submitted to our laboratory June 12, 2024
For your reference, these analyses have been assigned our service request number **E2400687.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current TNI standards, where applicable, and except as noted in the laboratory case narrative provided. All results are intended to be considered in their entirety and ALS Environmental is not responsible for use of less than the complete final report. Results apply only to the items submitted to the laboratory, as received for analysis. In accordance with the current TNI Standard, a statement on the estimated uncertainty of measurement of any quantitative analysis will be supplied upon request.

Please contact me if you have any questions. My extension is 2190. You may also contact me via email at hussam.kelany@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

H Kelany

Hussam Kelany
Project Manager

Certificate of Analysis

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

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Client:	ALS Environmental - US	**Service Request No.:**	E2400683
Project:	HS24060694	**Date Received:**	06/12/24
Sample Matrix:	Water		

CASE NARRATIVE

All analyses were performed in adherence to the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Eight samples were received for analysis at ALS Environmental in Houston on 06/12/24.

The samples were received in good condition and are consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

Data Validation Notes and Discussion

Precision and Accuracy:

EQ2400332: Laboratory Control Spike/Duplicate Laboratory Control Spike (LCS/DLCS) samples were analyzed and reported in addition to a MS/MSD for this extraction batch.

The batch precision (MS/DMS) measurements were determined on an unrelated sample in the extraction batch. The MS/DMS results are not included in this report.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS group USA Corp dba ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

Client: ALS Environmental - US **Service Request:**E2400687
Project: HS24060747

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2400687-001	1824DPTMW05_061024	6/10/2024	0735
E2400687-002	1824DPTMW05_061024_a	6/10/2024	0735
E2400687-003	129_061024	6/10/2024	0825
E2400687-004	120_061024	6/10/2024	0910
E2400687-005	MW14_061024	6/10/2024	0955
E2400687-006	MW23_061024	6/10/2024	1040
E2400687-007	CO9_061024	6/10/2024	1125
E2400687-008	CO1_061024	6/10/2024	1215
E2400687-009	126_061024	6/10/2024	1300

Service Request Summary

Folder #: **E2400687**
Client Name: ALS Environmental - US
Project Name: HS24060747
Project Number:

Report To: Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099
USA
Phone Number:
Cell Number:
Fax Number:
E-mail: luis.aguilar@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: MONICA.SMITH
Date Received: 06/12/24
Internal Due Date: 6/24/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: BASIC_WQC_CASNo

11 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-WIC 6B
Pressure Gas:

Lab Samp No.	Client Samp No	Matrix	Collected	HOUSTON ClO4 DOD/6850
E2400687-001	1824DPTMW05_061024	Ground Water	06/10/24 0735	**IV**
E2400687-002	1824DPTMW05_061024_a	Ground Water	06/10/24 0735	**IV**
E2400687-003	129_061024	Ground Water	06/10/24 0825	**IV**
E2400687-004	120_061024	Ground Water	06/10/24 0910	**IV**
E2400687-005	MW14_061024	Ground Water	06/10/24 0955	**IV**
E2400687-006	MW23_061024	Ground Water	06/10/24 1040	**IV**
E2400687-007	CO9_061024	Ground Water	06/10/24 1125	**IV**
E2400687-008	CO1_061024	Ground Water	06/10/24 1215	**IV**
E2400687-009	126_061024	Ground Water	06/10/24 1300	**IV**

Service Request Summary

Folder #:	**E2400687**
Client Name:	ALS Environmental - US
Project Name:	HS24060747
Project Number:	
Report To:	Luis Aguilar ALS Environmental - US 10450 Stancliff Rd Suite 210 Houston, TX 77099 USA
Phone Number:	
Cell Number:	
Fax Number:	
E-mail:	luis.aguilar@alsglobal.com

Project Chemist:	Hussam Kelany
Originating Lab:	HOUSTON
Logged By:	MONICA.SMITH
Date Received:	06/12/24
Internal Due Date:	6/24/2024
QAP:	LAB QAP
Qualifier Set:	Lab Standard
Formset:	Lab Standard
Merged?:	Y
Report to MDL?:	Y
P.O. Number:	
EDD:	BASIC_WQC_CASNo

11 120 mL-Plastic Bottle Natural WM Unpreserved

Location: EHRMS-WIC 6B

Pressure Gas:

Print
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Data Qualifiers

Lab Standard

+	Possible Tedlar bag artifact.
A	TIC is a suspected aldol-condensation product
B	Analyte found in the associated method blank as well as in the sample.
BC	Reported results are not blank corrected.
BH	The back section of the tube yielded higher results than the front.
BT	Results indicated possible breakthrough; back section >=10% front section.
C	Result identification confirmed.
D	Compound identified in an analysis at a secondary dilution factor
D	Spike was diluted out
DE	Reported results are corrected for desorption efficiency.
E	Estimated value. Concentration above calibration range
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
H1	Sample analysis performed past holding time. See case narrative.
H2	Initial analysis within holding time. Reanalysis for the required dilution was past holding time.
H3	Sample was received and analyzed past holding time.
H4	Sample was extracted past required extraction holding time, but analyzed within analysis holding time. See case narrative.
I	(Auto) The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
I	Internal standard not within the specified limits. See case narrative.
I	The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
J	Estimated Value. Concentration found below MRL.
K	A deflection in the QC ion may indicate interference with the quantitation of this ion. The concentration of this analyte should be considered as an estimate.
K	Analyte was detected above the method reporting limit prior to normalization.
K	The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
L1	Laboratory control sample recovery outside the specified limits; results may be biased high.
L2	Laboratory control sample recovery outside the specified limits; results may be biased low.
L3	Laboratory control sample recovery outside the specified limits.
M	Matrix interference; results may be biased high.
M	The duplicate injection precision not met.

Data Qualifiers

Lab Standard

M1	Matrix interference due to coelution with a non-target compound; results may be biased high.
N	Presumptive evidence of a compound for TICs that have been identified based on a mass spectral library search.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
P	Indicates chlorodiphenyl ether interference present at the retention time of the target compound.
P	Pesticide/Aroclor target analyte > 40% difference for detected concentrations between GC columns
Q	Indicates as estimated value because the P and P + 2 theoretical abundance ratio does not meet method criteria.
R	Duplicate Precision not met.
R1	Duplicate precision not within the specified limits; however, the results are below the MRL and considered estimated.
S	Surrogate recovery not within specified limits.
S	The reported value was determined by the Method of Standard Additions (MSA).
T	Analyte is a tentatively identified compound, result is estimated.
U	Compound was analyzed for, but was not detected (ND).
V1	The continuing calibration verification standard was outside (biased high) the specified limits for this compound.
V2	The continuing calibration verification standard was outside (biased low) the specified limits for this compound.
W	Result quantified, but the corresponding peak was detected outside the generated retention time window.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
X	See case narrative.
Y	Recovery outside limits
Y	The chromatogram resembles a petroleum product but does not match the calibration standard.
Z	The chromatogram does not resemble a petroleum product.
i	The MRL/MDL has been elevated due to a matrix interference.

ALS Laboratory Group

Acronyms

Cal	Calibration
Conc	CONCentration
Dioxin(s)	Polychlorinated dibenzo-p-dioxin(s)
EDL	Estimated Detection Limit
EMPC	Estimated Maximum Possible Concentration
Flags	Data qualifiers
Furan(s)	Polychlorinated dibenzofuran(s)
g	Grams
ICAL	Initial CALibration
ID	IDentifier
Ions	Masses monitored for the analyte during data acquisition
L	Liter (s)
LCS	Laboratory Control Sample
DLCS	Duplicate Laboratory Control Sample
MB	Method Blank
MCL	Method Calibration Limit
MDL	Method Detection Limit
mL	Milliliters
MS	Matrix Spiked sample
DMS	Duplicate Matrix Spiked sample
NO	Number of peaks meeting all identification criteria
PCDD(s)	Polychlorinated dibenzo-p-dioxin(s)
PCDF(s)	Polychlorinated dibenzofuran(s)
ppb	Parts per billion
ppm	Parts per million
ppq	Parts per quadrillion
ppt	Parts per trillion
QA	Quality Assurance
QC	Quality Control
Ratio	Ratio of areas from monitored ions for an analyte
% Rec.	Percent recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
RT	Retention Time
SDG	Sample Delivery Group
S/N	Signal-to-noise ratio
TEF	Toxicity Equivalence Factor
TEQ	Toxicity Equivalence Quotient

10450 Stancliff Rd, Houston, TX 77099 | 281-530-5656 | www.alsglobal.com

State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
Arkansas Department of Environmental Quality	88-00356	3/28/2025
California State Environmental Laboratory Accreditation Program	2919-2024	4/30/2025
Department of Defense	L24-240	4/30/2026
Florida Department of Health	E87611-38	6/30/2024
Hawaii Department of Health	2024	4/30/2025
Illinois Environmental Protection Agency	2000322023-11	6/30/2024
Kansas Department of Health and Environment	E-10352 2023-2024	7/31/2024
Louisiana Department of Environmental Quality	03087-2023	6/30/2024
Louisiana Department of Health and Hospitals	LA028-2024	12/31/2024
Maryland Department of the Environment	343-2023	6/30/2024
Minnesota Department of Health	2645386	12/31/2024
Nevada Division of Environmental Protection	TX026932024-1	7/31/2024
New Hampshire Environmental Laboratory Accreditation Program	209424-A	4/24/2025
New Jersey Department of Environmental Protection	TX008-2024	6/30/2024
Oklahoma Department of Environmental Quality	2023-140	8/31/2024
Oregon Environmental Laboratory Accreditation Program	TX200002-2024	5/15/2025
Pennsylvania Department of Environmental Protection	68-03441-017	6/30/2024
Tennessee Department of Environment and Conservation	04016-2024	4/30/2025
Texas Commision on Environmental Quality	TX-C24-00130	4/30/2025
Utah Department of Health Environmental Laboratory Certification	TX026932023-14	7/31/2024
Washington Department of Ecology	C819-23	11/14/2024

Chain of Custody

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

E2400687 5
ALS Laboratory Group
HS24060747

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F: +1 281 530 5887
www.alsglobal.com

Subcontract Chain of Custody

SAMPLING STATE: **Texas** **COC ID:** **25987**

SUBCONTRACT TO:

ALS Environmental
10450 Stancliff RoadSuite 210
Houston, TX 77084

Phone: +1 281 530 5656

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	James Guin
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	James.Guin@alsglobal.com
Alternate Contact:	
Email:	

INVOICE INFORMATION:

Company:	ALS Houston
Contact:	Accounts Payable
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Reference:	HS24060747
TSR:	Sonia West

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS24060747-01**	**1824DPTMW05_061024**	**Groundwater**	**10 Jun 2024 07:35**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			26 Jun 2024
2.	**HS24060747-02**	**1824DPTMW05_061024_a**	**Groundwater**	**10 Jun 2024 07:35**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			26 Jun 2024
3.	**HS24060747-03**	**129_061024**	**Groundwater**	**10 Jun 2024 08:25**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			26 Jun 2024
4.	**HS24060747-04**	**120_061024**	**Groundwater**	**10 Jun 2024 09:10**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			26 Jun 2024
5.	**HS24060747-05**	**MW14_061024**	**Groundwater**	**10 Jun 2024 09:55**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			26 Jun 2024
6.	**HS24060747-06**	**MW23_061024**	**Groundwater**	**10 Jun 2024 10:40**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			26 Jun 2024
7.	**HS24060747-07**	**CO9_061024**	**Groundwater**	**10 Jun 2024 11:25**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			26 Jun 2024
8.	**HS24060747-08**	**CO1_061024**	**Groundwater**	**10 Jun 2024 12:15**

Subcontract Chain of Custody

SAMPLING STATE: **Texas** **COC ID:** **25987**

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			26 Jun 2024
9.	**HS24060747-09**	**126_061024**	**Groundwater**	**10 Jun 2024 13:00**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			26 Jun 2024

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

QC Level: DOD IV (DoD Data Package)

Relinquished By: _____ Date/Time: _____

Received By: _____ Date/Time: _____

Cooler ID(s): _____ Temperature(s): _____

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Subcontract Chain of Custody

SAMPLING STATE: **Texas** **COC ID:** **25987**

SUBCONTRACT TO:

ALS Environmental
10450 Stancliff RoadSuite 210
Houston, TX 77084

Phone: +1 281 530 5656

CUSTOMER INFORMATION:

Company: ALS Houston
Contact: James Guin
Address: 10450 Stancliff Rd, Ste 210
Phone: +1 281 530 5656
Email: James.Guin@alsglobal.com
Alternate Contact:
Email:

INVOICE INFORMATION:

Company: ALS Houston
Contact: Accounts Payable
Address: 10450 Stancliff Rd, Ste 210
Phone: +1 281 530 5656
Reference: HS24060747
TSR: Sonia West

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS24060747-01**	**1824DPTMW05_061024**	**Groundwater**	**10 Jun 2024 07:35**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			26 Jun 2024
2.	**HS24060747-02**	**1824DPTMW05_061024_a**	**Groundwater**	**10 Jun 2024 07:35**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			26 Jun 2024
3.	**HS24060747-03**	**129_061024**	**Groundwater**	**10 Jun 2024 08:25**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			26 Jun 2024
4.	**HS24060747-04**	**120_061024**	**Groundwater**	**10 Jun 2024 09:10**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			26 Jun 2024
5.	**HS24060747-05**	**MW14_061024**	**Groundwater**	**10 Jun 2024 09:55**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			26 Jun 2024
6.	**HS24060747-06**	**MW23_061024**	**Groundwater**	**10 Jun 2024 10:40**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			26 Jun 2024
7.	**HS24060747-07**	**CO9_061024**	**Groundwater**	**10 Jun 2024 11:25**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			26 Jun 2024
8.	**HS24060747-08**	**CO1_061024**	**Groundwater**	**10 Jun 2024 12:15**

Subcontract Chain of Custody

SAMPLING STATE: **Texas** **COC ID:** **25987**

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			26 Jun 2024
9.	**HS24060747-09**	**126_061024**	**Groundwater**	**10 Jun 2024 13:00**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			26 Jun 2024

Comments: Please analyze for the analysis listed above.
Send report to the emails shown above.
Please analyze MS/MSD (-08)

QC Level: DOD IV (DoD Data Package)

Relinquished By: _____ Date/Time: _____

Received By: _____ Date/Time: _____

Cooler ID(s): _____ Temperature(s): _____

E2400687 5
ALS Laboratory Group
HS24060747

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

Sample Receipt Checklist

Work Order ID: HS24060747 **Date/Time received:** 12 Jun 2024 09:55

Client name: Bhate Environmental Associates, Inc. **Received by:** Si Ma

Completed/By: 12 Jun 2024 20:48 Michael Lucio (Date/Time / eSignature)

Reviewed/By: 13 Jun 2024 09:42 Luis.Aguilar (Date/Time / eSignature)

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	2 Page(s)	
Chain of custody signed when relinquished and received?	☑ Yes	☐ No	COC ID(s):	
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): 1.8uc/1.9c IR31

Cooler Information: 1 Cooler(s), 2759

Date/Time sample(s) sent to storage: 06/12/2024 20:49

Water - VOA vials have zero headspace?	☑ Yes	☐ No	☐ No VOA vials submitted
Water - pH acceptable upon receipt?	☑ Yes	☐ No	☐ Not Applicable
pH adjusted?	☐ Yes	☑ No	☐ Not Applicable

pH adjusted by:

Login notes:

Client contacted: **Date contacted:** **Person contacted:**

Contacted by: **Regarding:**

Comments:

Corrective action:

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SAMPLE ACCEPTANCE POLICY

This policy outlines the criteria samples must meet to be accepted by ALS Environmental – Houston HRMS.

Cooler Custody Seals (desirable, mandatory if specified in SAP):

- ✓ Intact on outside of cooler, signed and dated

Chain-of-Custody (COC) documentation (mandatory):

The following is required on each COC:

- ✓ Sample ID, the location, date and time of collection, collector's name, preservation type, sample type, and any other special remarks concerning the sampleThe COC must be completed in ink.
- ✓ Signature and date of relinquishing party.

In the absence of a COC at sample receipt, the COC will be requested from the client.

Sample Integrity (mandatory):

Samples are inspected upon arrival to ensure that sample integrity was not compromised during transfer to the laboratory.

- ✓ Sample containers must arrive in good condition (not broken or leaking).
- ✓ Samples must be labeled appropriately, including Sample IDs, and requested test using durable labels and indelible ink.
- ✓ The correct type of sample bottle must be used for the method requested.
- ✓ An appropriate sample volume, or weight, must be received.
- ✓ Sample IDs and number of containers must reconcile with the COC.
- ✓ Samples must be received within the method defined holding time.

Temperature Requirement (varies by sample matrix):

- ✓ Aqueous and Non-aqueous samples must be shipped and stored cold, at 0 to 6ºC.
- ✓ Tissue samples must be shipped and stored frozen, at -20 to -10ºC.
- ✓ Air samples are shipped and stored cold, at 0 to 6ºC
- ✓ The sample temperature must be recorded on the COC

All cooler inspections are documented on the Cooler Receipt Form (CRF). A separate CRF is completed for each service request. Any samples not meeting the above criteria are noted on the CRF and the Project Manager notified. The Project Manager must resolve any sample integrity issues with the client prior to proceeding with the analysis. Such resolutions are documented in writing and filed with the project folder. Data associated with samples received outside of this acceptance policy will be qualified on the case narrative of the final report

Preparation Information Benchsheets

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

Preparation Information Benchsheet

Prep Run#: 440303 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/JOSEL.JUAREZ **Prep Method:** Method **Prep Date/Time:** 6/20/24 07:40

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2400683-001	MW3_061124	.01	6850/ClO4 DOD			Water	10mL	
2	E2400683-002	18CPTMW12SW_061124	.01	6850/ClO4 DOD			Water	10mL	
3	E2400683-003	18CPTMW12DW_061124	.01	6850/ClO4 DOD			Water	10mL	
4	E2400683-004	MW7_061124	.01	6850/ClO4 DOD			Water	10mL	
5	E2400683-005	18CPTMW26SW_061124	.01	6850/ClO4 DOD			Water	10mL	
6	E2400683-006	130_061124	.01	6850/ClO4 DOD			Water	10mL	
7	E2400683-007	18CPTMW19_061124	.01	6850/ClO4 DOD			Water	10mL	
8	E2400683-008	18CPTMW19SW_061124	.01	6850/ClO4 DOD			Water	10mL	
9	E2400687-001	1824DPTMW05_061024	.01	6850/ClO4 DOD			Ground Water	10mL	
10	E2400687-002	1824DPTMW05_061024_a	.01	6850/ClO4 DOD			Ground Water	10mL	
11	E2400687-003	129_061024	.01	6850/ClO4 DOD			Ground Water	10mL	
12	E2400687-004	120_061024	.01	6850/ClO4 DOD			Ground Water	10mL	
13	E2400687-005	MW14_061024	.01	6850/ClO4 DOD			Ground Water	10mL	
14	E2400687-006	MW23_061024	.01	6850/ClO4 DOD			Ground Water	10mL	
15	E2400687-007	CO9_061024	.01	6850/ClO4 DOD			Ground Water	10mL	
16	E2400687-008	CO1_061024	.01	6850/ClO4 DOD			Ground Water	10mL	
17	E2400687-009	126_061024	.01	6850/ClO4 DOD			Ground Water	10mL	
18	EQ2400332-01	MB		6850/ClO4 DOD			Liquid	10mL	
19	EQ2400332-02	LCS		6850/ClO4 DOD			Liquid	10mL	
20	EQ2400332-03	DLCS		6850/ClO4 DOD			Liquid	10mL	
21	EQ2400332-04	ICS		6850/ClO4 DOD			Liquid	10mL	
22	EQ2400332-05	CO1_061024 MS	.01	6850/ClO4 DOD			Liquid	10mL	
23	EQ2400332-06	CO1_061024 DMS	.01	6850/ClO4 DOD			Liquid	10mL	

Spiking Solutions

Name: Perchlorate Intermediate Stock 2 Inventory ID 233555 Logbook Ref: Perchlorate INT. Stock2 Expires On: 08/05/2024

EQ2400332-02 10.00µL EQ2400332-03 10.00µL EQ2400332-04 10.00µL

Name: Perchlorate Intermediate Stock 3 Inventory ID 233558 Logbook Ref: Perchlorate INT Stock3 Expires On: 08/05/2024

EQ2400332-05 100.00µL EQ2400332-06 100.00µL

Name: Perchlorate Internal Standard 1ug/mL Inventory ID 235428 Logbook Ref: Perchlorate IS cg5/24/24 Expires On: 11/24/2024

E2400683-001 100.00µL E2400683-002 100.00µL E2400683-003 100.00µL E2400683-004 100.00µL E2400683-005 100.00µL E2400683-006 100.00µL

RIGHT SOLUTIONS | RIGHT PARTNER

Preparation Information Benchsheet

Prep Run#: 440303 **Prep WorkFlow:** GenExt28Day **Status:** Prepped

Team: Semivoa GCMS/JOSEL.JUAREZ **Prep Method:** Method **Prep Date/Time:** 6/20/24 07:40

E2400683-007	100.00µL	E2400683-008	100.00µL	E2400687-001	100.00µL	E2400687-002	100.00µL	E2400687-003	100.00µL	E2400687-004	100.00µL
E2400687-005	100.00µL	E2400687-006	100.00µL	E2400687-007	100.00µL	E2400687-008	100.00µL	E2400687-009	100.00µL	EQ2400332-01	100.00µL
EQ2400332-02	100.00µL	EQ2400332-03	100.00µL	EQ2400332-04	100.00µL	EQ2400332-05	100.00µL	EQ2400332-06	100.00µL		

Preparation Materials

6850 0.45um syringe filters	6850 0.45 SYRING FILTER (229979)	6850 Luer-Lok Syringes	Luer Lok Syringes (231696)

Preparation Steps

Step: Preparation
Started: 6/20/24 07:40
Finished: 6/20/24 08:24
By: JOSEL.JUAREZ
Comments

Comments: _____

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: _____ Date: _____

Received By: _____ Date: _____

Extracts Examined
Yes No

Analytical Results

ALS Environmental - Houston Specialties Laboratory
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ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400687
Project:	HS24060747	**Date Collected:**	6/10/24 0735
Sample Matrix:	Ground Water	**Date Received:**	6/12/24
Sample Name:	1824DPTMW05_061024	**Units:**	µg/L
Lab Code:	E2400687-001	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**119000**		1000	500	250	10000	6/20/24	6/20/24 13:04	440303	844983	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400687
Project:	HS24060747	**Date Collected:**	6/10/24 0735
Sample Matrix:	Ground Water	**Date Received:**	6/12/24
Sample Name:	1824DPTMW05_061024_a	**Units:**	µg/L
Lab Code:	E2400687-002	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**99800**		1000	500	250	10000	6/20/24	6/20/24 13:10	440303	844983	

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400687
Project:	HS24060747	**Date Collected:**	6/10/24 0825
Sample Matrix:	Ground Water	**Date Received:**	6/12/24
Sample Name:	129_061024	**Units:**	µg/L
Lab Code:	E2400687-003	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**2030**		100	50.0	25.0	1000	6/20/24	6/20/24 13:15	440303	844983	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400687
Project:	HS24060747	**Date Collected:**	6/10/24 0910
Sample Matrix:	Ground Water	**Date Received:**	6/12/24
Sample Name:	120_061024	**Units:**	µg/L
Lab Code:	E2400687-004	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**9670**		100	50.0	25.0	1000	6/20/24	6/20/24 13:21	440303	844983	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400687
Project:	HS24060747	**Date Collected:**	6/10/24 0955
Sample Matrix:	Ground Water	**Date Received:**	6/12/24
Sample Name:	MW14_061024	**Units:**	µg/L
Lab Code:	E2400687-005	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**300000**		10000	5000	2500	100000	6/20/24	6/20/24 13:26	440303	844983	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400687
Project:	HS24060747	**Date Collected:**	6/10/24 1040
Sample Matrix:	Ground Water	**Date Received:**	6/12/24
Sample Name:	MW23_061024	**Units:**	µg/L
Lab Code:	E2400687-006	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**79200**		1000	500	250	10000	6/20/24	6/20/24 14:33	440303	844983	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400687
Project:	HS24060747	**Date Collected:**	6/10/24 1125
Sample Matrix:	Ground Water	**Date Received:**	6/12/24
Sample Name:	CO9_061024	**Units:**	µg/L
Lab Code:	E2400687-007	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**4.33**		1.00	0.500	0.250	10	6/20/24	6/21/24 12:53	440303	845025	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400687
Project:	HS24060747	**Date Collected:**	6/10/24 1215
Sample Matrix:	Ground Water	**Date Received:**	6/12/24
Sample Name:	CO1_061024	**Units:**	µg/L
Lab Code:	E2400687-008	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.598**	J	1.00	0.500	0.250	10	6/20/24	6/21/24 12:58	440303	845025	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400687
Project:	HS24060747	**Date Collected:**	6/10/24 1300
Sample Matrix:	Ground Water	**Date Received:**	6/12/24
Sample Name:	126_061024	**Units:**	µg/L
Lab Code:	E2400687-009	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	ND	U	1.00	0.500	0.250	10	6/20/24	6/21/24 13:04	440303	845025	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400687
Project:	HS24060747	**Date Collected:**	NA
Sample Matrix:	Ground Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2400332-01	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	ND	U	0.100	0.0500	0.0250	1	6/20/24	6/20/24 09:39	440303	844983	

Accuracy & Precision

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10450 Stancliff Rd., Suite 210, Houston TX 77099
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ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2400687
Project:	HS24060747	**Date Analyzed:**	06/20/24
Sample Matrix:	Ground Water	**Date Extracted:**	06/20/24

Duplicate Lab Control Sample Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analysis Method:	6850	**Units:**	ug/L
Prep Method:	Method	**Basis:**	NA
		Analysis Lot:	844983

	Lab Control Sample EQ2400332-02			Duplicate Lab Control Sample EQ2400332-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.118	0.100	118	0.115	0.100	115	84-119	2	15

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400687
Project:	HS24060747	**Date Collected:**	NA
Sample Matrix:	Ground Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400332-02	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.118**		0.100	0.0500	0.0250	1	6/20/24	6/20/24 09:45	440303	844983	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400687
Project:	HS24060747	**Date Collected:**	NA
Sample Matrix:	Ground Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400332-03	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.115**		0.100	0.0500	0.0250	1	6/20/24	6/20/24 09:50	440303	844983	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2400687
Project:	HS24060747	**Date Collected:**	06/10/24
Sample Matrix:	Ground Water	**Date Received:**	06/12/24
		Date Analyzed:	06/21/24
		Date Extracted:	06/20/24

Duplicate Matrix Spike Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Sample Name:	CO1_061024	**Units:**	ug/L
Lab Code:	E2400687-008	**Basis:**	NA
Analysis Method:	6850		
Prep Method:	Method		

		Matrix Spike EQ2400332-05			Duplicate Matrix Spike EQ2400332-06					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.598 J	1.07	0.100	469 #	1.01	0.100	411 #	84-119	6	15

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400687
Project:	HS24060747	**Date Collected:**	6/10/24 1215
Sample Matrix:	Ground Water	**Date Received:**	6/12/24
Sample Name:	CO1_061024	**Units:**	µg/L
Lab Code:	EQ2400332-05	**Basis:**	NA
Run Type:	Matrix Spike		

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**1.07**		1.00	0.500	0.250	10	6/20/24	6/21/24 13:13	440303	845025	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400687
Project:	HS24060747	**Date Collected:**	6/10/24 1215
Sample Matrix:	Ground Water	**Date Received:**	6/12/24
Sample Name:	CO1_061024	**Units:**	µg/L
Lab Code:	EQ2400332-06	**Basis:**	NA
Run Type:	Duplicate Matrix Spike		

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**1.01**		1.00	0.500	0.250	10	6/20/24	6/21/24 13:19	440303	845025	

HS24060747-MSVOA-SW8260 REV01

ALS WO# HS24060747

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Form 2

System Monitoring Compound Recovery

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24060747

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

07/22/2024

ALS Environmental–Houston Laboratory
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Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder HS24060747

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA7-469580

BatchQC

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24060434-01MS	Aqueous	06/15/24 22:01	%REC	250
Instrument ID	VOA7				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	X061522.D	14540	12500	116		81-118
4-Bromofluorobenzene	X061522.D	13530	12500	108		85-114
Dibromofluoromethane	X061522.D	14400	12500	115		80-119
Toluene-d8	X061522.D	15030	12500	120		89-112

BatchQC

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24060434-01MSD	Aqueous	06/15/24 22:24	%REC	250
Instrument ID	VOA7				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	X061523.D	14900	12500	119		81-118
4-Bromofluorobenzene	X061523.D	14030	12500	112		85-114
Dibromofluoromethane	X061523.D	15000	12500	120		80-119
Toluene-d8	X061523.D	15420	12500	123		89-112

Trip Blank

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24060747-10	Groundwater	06/15/24 20:30	%REC	1
Instrument ID	VOA7				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	X061518.D	57	50	114		81-118
4-Bromofluorobenzene	X061518.D	53	50	106		85-114
Dibromofluoromethane	X061518.D	57	50	115		80-119
Toluene-d8	X061518.D	56	50	112		89-112

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder HS24060747

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA7-469580

VBLKW-240615

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VBLKW-240615	Aqueous	06/15/24 20:07	%REC	1
Instrument ID	VOA7				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	X061517.D	57.75	50	116		81-118
4-Bromofluorobenzene	X061517.D	54.97	50	110		85-114
Dibromofluoromethane	X061517.D	57.43	50	115		80-119
Toluene-d8	X061517.D	55.86	50	112		89-112

VLCSDW-240615

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VLCSDW-240615	Aqueous	06/15/24 19:21	%REC	1
Instrument ID	VOA7				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	X061515.D	51.37	50	103		81-118
4-Bromofluorobenzene	X061515.D	51.88	50	104		85-114
Dibromofluoromethane	X061515.D	51.09	50	102		80-119
Toluene-d8	X061515.D	52.49	50	105		89-112

VLCSW-240615

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VLCSW-240615	Aqueous	06/15/24 18:58	%REC	1
Instrument ID	VOA7				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	X061514.D	47.94	50	95.9		81-118
4-Bromofluorobenzene	X061514.D	51.19	50	102		85-114
Dibromofluoromethane	X061514.D	48.36	50	96.7		80-119
Toluene-d8	X061514.D	52.34	50	105		89-112

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder HS24060747

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA7-469580

VSTD50

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VSTD50	Aqueous	06/15/24 18:35	%REC	1
Instrument ID	VOA7				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	X061513A.D	46.52	50	93.0		80-120
4-Bromofluorobenzene	X061513A.D	48.95	50	97.9		80-120
Dibromofluoromethane	X061513A.D	48.14	50	96.3		80-120
Toluene-d8	X061513A.D	48.75	50	97.5		80-120

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder **HS24060747**

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-470169

1824DPTMW05_061024

Lab Sample ID	Matrix	Analysis Date	Conc Units	Dilution
HS24060747-01	Groundwater	06/21/24 17:23	%REC	100

Instrument ID: VOA9

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U62122.D	5200	5000	104		81-118
4-Bromofluorobenzene	U62122.D	5000	5000	101		85-114
Dibromofluoromethane	U62122.D	5400	5000	107		80-119
Toluene-d8	U62122.D	5500	5000	109		89-112

1824DPTMW05_061024_a

Lab Sample ID	Matrix	Analysis Date	Conc Units	Dilution
HS24060747-02	Groundwater	06/21/24 17:45	%REC	100

Instrument ID: VOA9

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U62123.D	5100	5000	102		81-118
4-Bromofluorobenzene	U62123.D	5000	5000	99.9		85-114
Dibromofluoromethane	U62123.D	5400	5000	107		80-119
Toluene-d8	U62123.D	5500	5000	110		89-112

129_061024

Lab Sample ID	Matrix	Analysis Date	Conc Units	Dilution
HS24060747-03	Groundwater	06/21/24 17:02	%REC	10

Instrument ID: VOA9

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U62121.D	480	500	96.8		81-118
4-Bromofluorobenzene	U62121.D	470	500	94.8		85-114
Dibromofluoromethane	U62121.D	480	500	96.2		80-119
Toluene-d8	U62121.D	520	500	103		89-112

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder **HS24060747**

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-470169

120_061024

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24060747-04	Groundwater	06/21/24 18:06	%REC	100
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U62124.D	5100	5000	102		81-118
4-Bromofluorobenzene	U62124.D	5000	5000	101		85-114
Dibromofluoromethane	U62124.D	5400	5000	107		80-119
Toluene-d8	U62124.D	5500	5000	110		89-112

MW14_061024

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24060747-05	Groundwater	06/21/24 18:28	%REC	500
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U62125.D	25000	25000	101		81-118
4-Bromofluorobenzene	U62125.D	25000	25000	99.7		85-114
Dibromofluoromethane	U62125.D	26000	25000	105		80-119
Toluene-d8	U62125.D	27000	25000	109		89-112

MW23_061024

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24060747-06	Groundwater	06/21/24 18:49	%REC	100
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U62126.D	5100	5000	103		81-118
4-Bromofluorobenzene	U62126.D	5100	5000	101		85-114
Dibromofluoromethane	U62126.D	5300	5000	107		80-119
Toluene-d8	U62126.D	5500	5000	110		89-112

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder HS24060747

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-470169

CO9_061024

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24060747-07	Groundwater	06/21/24 16:16	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U62119.D	51	50	103		81-118
4-Bromofluorobenzene	U62119.D	50	50	100		85-114
Dibromofluoromethane	U62119.D	54	50	108		80-119
Toluene-d8	U62119.D	55	50	110		89-112

CO1_061024

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24060747-08	Groundwater	06/21/24 15:12	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U62116.D	52	50	103		81-118
4-Bromofluorobenzene	U62116.D	51	50	102		85-114
Dibromofluoromethane	U62116.D	53	50	106		80-119
Toluene-d8	U62116.D	56	50	111		89-112

CO1_061024

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24060747-08MS	Aqueous	06/21/24 15:34	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U62117.D	49.7	50	99.4		81-118
4-Bromofluorobenzene	U62117.D	52.9	50	106		85-114
Dibromofluoromethane	U62117.D	53.93	50	108		80-119
Toluene-d8	U62117.D	55.7	50	111		89-112

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder HS24060747

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-470169

CO1_061024

	Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID HS24060747-08MSD Instrument ID VOA9	Aqueous	06/21/24 15:55	%REC	1

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U62118.D	49.31	50	98.6		81-118
4-Bromofluorobenzene	U62118.D	53.96	50	108		85-114
Dibromofluoromethane	U62118.D	53.49	50	107		80-119
Toluene-d8	U62118.D	55.37	50	111		89-112

126_061024

	Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID HS24060747-09 Instrument ID VOA9	Groundwater	06/21/24 16:38	%REC	1

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U62120.D	52	50	104		81-118
4-Bromofluorobenzene	U62120.D	49	50	98.5		85-114
Dibromofluoromethane	U62120.D	53	50	106		80-119
Toluene-d8	U62120.D	54	50	108		89-112

VBLKW-240621

	Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID VBLKW-240621 Instrument ID VOA9	Aqueous	06/21/24 11:32	%REC	1

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U62106.D	52.12	50	104		81-118
4-Bromofluorobenzene	U62106.D	50.79	50	102		85-114
Dibromofluoromethane	U62106.D	54.48	50	109		80-119
Toluene-d8	U62106.D	55.19	50	110		89-112

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder HS24060747

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-470169

VLCSDW-240621

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VLCSDW-240621	Aqueous	06/21/24 10:50	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U62104.D	50.58	50	101		81-118
4-Bromofluorobenzene	U62104.D	54.53	50	109		85-114
Dibromofluoromethane	U62104.D	55.25	50	110		80-119
Toluene-d8	U62104.D	55.91	50	112		89-112

VLCSW-240621

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VLCSW-240621	Aqueous	06/21/24 10:28	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U62103.D	50	50	100		81-118
4-Bromofluorobenzene	U62103.D	54.4	50	109		85-114
Dibromofluoromethane	U62103.D	53.76	50	108		80-119
Toluene-d8	U62103.D	55.43	50	111		89-112

VSTD050

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VSTD050	Aqueous	06/21/24 09:46	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U62102.D	50.28	50	101		80-120
4-Bromofluorobenzene	U62102.D	53.74	50	107		80-120
Dibromofluoromethane	U62102.D	55.75	50	111		80-120
Toluene-d8	U62102.D	57.88	50	116		80-120

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Form 3A

Matrix Spike/Spike Duplicate Recovery

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24060747

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

07/22/2024

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 18 24

Workorder: HS24060747

Volatiles by EPA Volatiles Organics by Method 8260C

SAMPLENUM: HS24060434-01MS

BatchQC (HS24060434-01)				HS24060434-01MS				HS24060434-01MSD						
Spike Matrix: Aqueous	Result Units: ug/L			Run Date: 06/15/24				Run Date: 06/15/24						
Instrument ID: VOA7				Run Time: 22:01				Run Time: 22:24						
				Data File: X061522.D				Data File: X061523.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	250	0	4012.99	5000	80		3957.07	5000	79		20	1.4	
1,1,1-Trichloroethane	74-131	250	0	4100.42	5000	82		3888.30	5000	78		20	5.31	
1,1,2,2-Tetrachloroethane	71-121	250	0	3919.51	5000	78		3816.61	5000	76		20	2.66	
1,1,2-Trichloroethane	80-119	250	0	3999.42	5000	80		4031.15	5000	81		20	0.79	
1,1-Dichloroethane	77-125	250	0	3950.73	5000	79		3822.32	5000	76		20	3.3	
1,1-Dichloroethene	71-131	250	177.7	4371.39	5000	84		4116.94	5000	79		20	6	
1,1-Dichloropropene	78-125	250	0	4138.78	5000	83		3953.81	5000	79		20	4.57	
1,2,3-Trichlorobenzene	69-129	250	0	3281.71	5000	66		3295.46	5000	66		20	0.418	
1,2,3-Trichloropropane	73-122	250	0	3813.36	5000	76		3923.31	5000	78		20	2.84	
1,2,4-Trichlorobenzene	69-130	250	0	3605.30	5000	72		3601.54	5000	72		20	0.104	
1,2,4-Trimethylbenzene	76-124	250	0	4072.36	5000	81		3868.66	5000	77		20	5.13	
1,2-Dibromo-3-chloropropane	62-128	250	0	3449.41	5000	69		3430.62	5000	69		20	0.546	
1,2-Dibromoethane	77-121	250	0	3831.31	5000	77		3917.70	5000	78		20	2.23	
1,2-Dichlorobenzene	80-119	250	0	3819.84	5000	76		3828.08	5000	77		20	0.216	
1,2-Dichloroethane	73-128	250	0	3950.39	5000	79		3967.19	5000	79		20	0.424	
1,2-Dichloropropane	78-122	250	0	4041.78	5000	81		3898.63	5000	78		20	3.61	
1,3,5-Trimethylbenzene	75-124	250	0	4082.55	5000	82		3888.04	5000	78		20	4.88	
1,3-Dichlorobenzene	80-119	250	0	3979.14	5000	80		3832.15	5000	77		20	3.76	
1,3-Dichloropropane	80-119	250	0	4010.97	5000	80		3888.18	5000	78		20	3.11	
1,4-Dichlorobenzene	79-118	250	0	3887.84	5000	78		3834.32	5000	77		20	1.39	
2,2-Dichloropropane	60-139	250	0	3710.55	5000	74		3585.79	5000	72		20	3.42	
2-Butanone	56-143	250	0	7968.41	10000	80		8225.66	10000	82		20	3.18	
2-Chlorotoluene	79-122	250	0	3992.64	5000	80		3909.77	5000	78		20	2.1	
2-Hexanone	57-139	250	0	7844.60	10000	78		7162.34	10000	72		20	9.09	
4-Chlorotoluene	78-122	250	0	3998.36	5000	80		3842.49	5000	77		20	3.98	
4-Isopropyltoluene	77-127	250	0	4030.99	5000	81		3955.87	5000	79		20	1.88	
4-Methyl-2-pentanone	67-130	250	0	8142.91	10000	81		7964.87	10000	80		20	2.21	
Acetone	39-160	250	0	8007.37	10000	80		9125.24	10000	91		20	13	
Benzene	79-120	250	0	4140.35	5000	83		3956.58	5000	79		20	4.54	
Bromobenzene	80-120	250	0	3977.27	5000	80		3942.00	5000	79		20	0.891	
Bromochloromethane	78-123	250	0	3947.86	5000	79		4000.64	5000	80		20	1.33	
Bromodichloromethane	79-125	250	0	3562.48	5000	71		3479.65	5000	70		20	2.35	

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder HS24060747

Volatiles by EPA Volatiles Organics by Method 8260C

SAMPLENUM HS24060434-01MS

BatchQC (HS24060434-01)				HS24060434-01MS				HS24060434-01MSD						
Spike Matrix Aqueous	Result Units ug/L			Run Date 06/15/24				Run Date 06/15/24						
Instrument ID VOA7				Run Time 22:01				Run Time 22:24						
				Data File X061522.D				Data File X061523.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	250	0	3645.92	5000	73		3667.15	5000	73		20	0.581	
Bromomethane	53-141	250	0	4329.60	5000	87		4027.71	5000	81		20	7.22	
Carbon disulfide	64-133	250	0	8312.10	10000	83		8042.97	10000	80		20	3.29	
Carbon tetrachloride	72-136	250	0	4009.20	5000	80		3898.42	5000	78		20	2.8	
Chlorobenzene	82-118	250	0	4010.16	5000	80		3941.12	5000	79		20	1.74	
Chloroethane	60-138	250	0	4364.89	5000	87		4136.14	5000	83		20	5.38	
Chloroform	79-124	250	0	4116.42	5000	82		3915.98	5000	78		20	4.99	
Chloromethane	50-139	250	0	4281.54	5000	86		4018.63	5000	80		20	6.34	
cis-1,2-Dichloroethene	78-123	250	20600	24022.2	5000	68		23651.0	5000	61		20	1.56	
cis-1,3-Dichloropropene	75-124	250	0	3806.47	5000	76		3685.48	5000	74		20	3.23	
Dibromochloromethane	74-126	250	0	3633.18	5000	73		3535.17	5000	71		20	2.73	
Dibromomethane	79-123	250	0	3906.30	5000	78		3948.28	5000	79		20	1.07	
Dichlorodifluoromethane	32-152	250	0	4195.21	5000	84		4081.14	5000	82		20	2.76	
Ethylbenzene	79-121	250	0	4115.79	5000	82		4046.22	5000	81		20	1.7	
Hexachlorobutadiene	66-134	250	0	3891.66	5000	78		3777.75	5000	76		20	2.97	
Isopropylbenzene	72-131	250	0	4132.10	5000	83		4029.40	5000	81		20	2.52	
m,p-Xylene	80-121	250	0	8355.78	10000	84		7765.99	10000	78		20	7.32	
Methylene chloride	74-124	250	0	4223.18	5000	84		4242.90	5000	85		20	0.466	
Naphthalene	61-128	250	0	3239.56	5000	65		3351.21	5000	67		20	3.39	
n-Butylbenzene	75-128	250	0	3995.62	5000	80		3805.72	5000	76		20	4.87	
n-Propylbenzene	76-126	250	0	4080.84	5000	82		3943.63	5000	79		20	3.42	
o-Xylene	78-122	250	0	4075.53	5000	82		3938.16	5000	79		20	3.43	
sec-Butylbenzene	77-126	250	0	4104.66	5000	82		3970.37	5000	79		20	3.33	
Styrene	78-123	250	0	4060.20	5000	81		3880.88	5000	78		20	4.52	
tert-Butylbenzene	78-124	250	0	4081.31	5000	82		3927.00	5000	78		20	3.85	
Tetrachloroethene	74-129	250	0	4156.06	5000	83		3905.67	5000	78		20	6.21	
Toluene	80-121	250	0	4143.80	5000	83		3997.71	5000	80		20	3.59	
trans-1,2-Dichloroethene	75-124	250	0	4184.18	5000	84		4025.69	5000	80		20	3.86	
trans-1,3-Dichloropropene	73-127	250	0	3806.47	5000	76		3685.48	5000	74		20	3.23	
Trichloroethene	79-123	250	4887	8907.46	5000	80		8672.86	5000	76		20	2.67	
Trichlorofluoromethane	65-141	250	0	4147.56	5000	83		4091.44	5000	82		20	1.36	
Vinyl chloride	58-137	250	0	4361.74	5000	87		4145.94	5000	83		20	5.07	

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder HS24060747

Volatiles by EPA Volatiles Organics by Method 8260C

SAMPLENUM HS24060434-01MS

BatchQC (HS24060434-01)				HS24060434-01MS		HS24060434-01MSD		
Spike Matrix	Aqueous	Result Units	ug/L	Run Date	06/15/24	Run Date	06/15/24	
Instrument ID	VOA7			Run Time	22:01	Run Time	22:24	
				Data File	X061522.D	Data File	X061523.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 18 24

Workorder: HS24060747

SAMPLENUM: HS24060747-08MS

Volatiles by EPA Volatiles Organics by Method 8260C

CO1_061024 (HS24060747-08)			HS24060747-08MS		HS24060747-08MSD	
Spike Matrix: Aqueous	Result Units: ug/L		Run Date: 06/21/24		Run Date: 06/21/24	
Instrument ID: VOA9			Run Time: 15:34		Run Time: 15:55	
			Data File: U62117.D		Data File: U62118.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	18.0943	20	90		17.8973	20	90		20	1.09	
1,1,1-Trichloroethane	74-131	1	0	19.6260	20	98		18.9090	20	94		20	3.72	
1,1,2,2-Tetrachloroethane	71-121	1	0	17.2482	20	86		17.0936	20	86		20	0.9	
1,1,2-Trichloroethane	80-119	1	0	17.3067	20	86		17.1164	20	86		20	1.11	
1,1-Dichloroethane	77-125	1	0	15.7692	20	79		15.0524	20	75		20	4.65	
1,1-Dichloroethene	71-131	1	0	16.7719	20	84		15.9186	20	80		20	5.22	
1,1-Dichloropropene	78-125	1	0	19.5740	20	98		18.8173	20	94		20	3.94	
1,2,3-Trichlorobenzene	69-129	1	0	17.5454	20	88		18.6067	20	93		20	5.87	
1,2,3-Trichloropropane	73-122	1	0	16.0216	20	80		16.6562	20	83		20	3.88	
1,2,4-Trichlorobenzene	69-130	1	0	17.1220	20	86		18.3516	20	92		20	6.93	
1,2,4-Trimethylbenzene	76-124	1	0	15.3193	20	77		16.1375	20	81		20	5.2	
1,2-Dibromo-3-chloropropane	62-128	1	0	17.3600	20	87		18.1474	20	91		20	4.44	
1,2-Dibromoethane	77-121	1	0	17.3152	20	87		17.0269	20	85		20	1.68	
1,2-Dichlorobenzene	80-119	1	0	17.3061	20	86		17.3464	20	87		20	0.232	
1,2-Dichloroethane	73-128	1	0	17.7983	20	89		17.4113	20	87		20	2.2	
1,2-Dichloropropane	78-122	1	0	17.1378	20	86		16.8158	20	84		20	1.9	
1,3,5-Trimethylbenzene	75-124	1	0	16.2095	20	81		17.1534	20	86		20	5.66	
1,3-Dichlorobenzene	80-119	1	0	17.4469	20	87		17.6324	20	88		20	1.06	
1,3-Dichloropropane	80-119	1	0	16.8889	20	84		16.9739	20	85		20	0.502	
1,4-Dichlorobenzene	79-118	1	0	18.4372	20	92		18.6253	20	93		20	1.02	
2,2-Dichloropropane	60-139	1	0	18.1739	20	91		17.3491	20	87		20	4.64	
2-Butanone	56-143	1	0	30.5973	40	76		29.3569	40	73		20	4.14	
2-Chlorotoluene	79-122	1	0	17.9320	20	90		18.3412	20	92		20	2.26	
2-Hexanone	57-139	1	0	27.9280	40	70		27.6844	40	69		20	0.876	
4-Chlorotoluene	78-122	1	0	17.8926	20	90		17.9361	20	90		20	0.243	
4-Isopropyltoluene	77-127	1	0	16.9091	20	84		17.6311	20	88		20	4.18	
4-Methyl-2-pentanone	67-130	1	0	30.5644	40	76		30.2913	40	76		20	0.898	
Acetone	39-160	1	0	19.2262	40	48		17.9457	40	45		20	6.89	
Benzene	79-120	1	0	17.6096	20	88		16.9462	20	85		20	3.84	
Bromobenzene	80-120	1	0	17.5822	20	88		18.1379	20	91		20	3.11	
Bromochloromethane	78-123	1	0	16.8183	20	84		16.8413	20	84		20	0.137	
Bromodichloromethane	79-125	1	0	17.8092	20	89		17.2553	20	86		20	3.16	

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client: Bhate Environmental Associates, Inc.

Project: LHAAP 18 24

Workorder: HS24060747

Volatiles by EPA Volatiles Organics by Method 8260C

SAMPLENUM: HS24060747-08MS

CO1_061024 (HS24060747-08)				HS24060747-08MS				HS24060747-08MSD						
Spike Matrix: Aqueous	Result Units: ug/L			Run Date: 06/21/24				Run Date: 06/21/24						
Instrument ID: VOA9				Run Time: 15:34				Run Time: 15:55						
				Data File: U62117.D				Data File: U62118.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	17.0055	20	85		16.8091	20	84		20	1.16	
Bromomethane	53-141	1	0	15.9056	20	80		16.5458	20	83		20	3.95	
Carbon disulfide	64-133	1	0	32.4252	40	81		31.6334	40	79		20	2.47	
Carbon tetrachloride	72-136	1	0	20.0664	20	100		18.9225	20	95		20	5.87	
Chlorobenzene	82-118	1	0	19.1873	20	96		19.3728	20	97		20	0.962	
Chloroethane	60-138	1	0	15.3658	20	77		14.7701	20	74		20	3.95	
Chloroform	79-124	1	0	18.7705	20	94		17.8453	20	89		20	5.05	
Chloromethane	50-139	1	0	20.6310	20	103		19.6450	20	98		20	4.9	
cis-1,2-Dichloroethene	78-123	1	0	18.2309	20	91		17.4840	20	87		20	4.18	
cis-1,3-Dichloropropene	75-124	1	0	16.7674	20	84		16.2186	20	81		20	3.33	
Dibromochloromethane	74-126	1	0	18.4399	20	92		18.3723	20	92		20	0.367	
Dibromomethane	79-123	1	0	17.3264	20	87		17.0162	20	85		20	1.81	
Dichlorodifluoromethane	32-152	1	0	19.2797	20	96		19.1465	20	96		20	0.693	
Ethylbenzene	79-121	1	0	19.0760	20	95		18.9076	20	94		20	0.887	
Hexachlorobutadiene	66-134	1	0	19.2922	20	96		20.3749	20	102		20	5.46	
Isopropylbenzene	72-131	1	0	20.2550	20	101		20.1886	20	101		20	0.329	
m,p-Xylene	80-121	1	0	38.7188	40	97		39.2948	40	98		20	1.48	
Methylene chloride	74-124	1	0	14.7042	20	74		14.0960	20	70		20	4.22	
Naphthalene	61-128	1	0	14.5703	20	73		16.1445	20	81		20	10.3	
n-Butylbenzene	75-128	1	0	17.5935	20	88		18.0434	20	90		20	2.52	
n-Propylbenzene	76-126	1	0	18.5075	20	92		19.0498	20	95		20	2.89	
o-Xylene	78-122	1	0	19.3192	20	97		19.6983	20	98		20	1.94	
sec-Butylbenzene	77-126	1	0	19.2146	20	96		19.6459	20	98		20	2.22	
Styrene	78-123	1	0	17.8746	20	89		17.9486	20	90		20	0.413	
tert-Butylbenzene	78-124	1	0	20.0558	20	100		20.3878	20	102		20	1.64	
Tetrachloroethene	74-129	1	0	21.0048	20	105		20.6464	20	103		20	1.72	
Toluene	80-121	1	0	18.6862	20	93		18.5148	20	93		20	0.922	
trans-1,2-Dichloroethene	75-124	1	0	16.7963	20	84		16.2412	20	81		20	3.36	
trans-1,3-Dichloropropene	73-127	1	0	16.6395	20	83		16.2392	20	81		20	2.43	
Trichloroethene	79-123	1	0	19.3433	20	97		19.3354	20	97		20	0.0406	
Trichlorofluoromethane	65-141	1	0	18.7221	20	94		17.7701	20	89		20	5.22	
Vinyl chloride	58-137	1	0	16.6912	20	84		16.2547	20	81		20	2.65	

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client	Bhate Environmental Associates, Inc.	Workorder	HS24060747
Project	LHAAP 18 24		

Volatiles by EPA Volatiles Organics by Method 8260C

SAMPLENUM HS24060747-08MS

CO1_061024 (HS24060747-08)			HS24060747-08MS		HS24060747-08MSD		
Spike Matrix	Aqueous	Result Units	ug/L	Run Date	06/21/24	Run Date	06/21/24
Instrument ID	VOA9			Run Time	15:34	Run Time	15:55
				Data File	U62117.D	Data File	U62118.D

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

HS24060747

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

07/22/2024

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 18 24

Workorder HS24060747

Volatiles by EPA Volatiles Organics by Method 8260C

SAMPLENUM VLCSW-240615

VOA7_469580			VLCSW-240615			VLCSDW-240615					
Spike Matrix Aqueous	Result Units ug/L		Run Date 06/15/24 Run Time 18:58			Run Date 06/15/24 Run Time 19:21					
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	19.73	99		19.68	98		20	0.238	
1,1,1-Trichloroethane	74-131	20	18.76	94		18.95	95		20	1.01	
1,1,2,2-Tetrachloroethane	71-121	20	20.87	104		21.5	108		20	3.01	
1,1,2-Trichloroethane	80-119	20	20.29	101		21.04	105		20	3.66	
1,1-Dichloroethane	77-125	20	17.88	89		18.17	91		20	1.58	
1,1-Dichloroethene	71-131	20	19.31	96		19.84	99		20	2.72	
1,1-Dichloropropene	78-125	20	19.21	96		19.21	96		20	0.0066	
1,2,3-Trichlorobenzene	69-129	20	19.99	100		19.73	99		20	1.28	
1,2,3-Trichloropropane	73-122	20	20.04	100		21.16	106		20	5.44	
1,2,4-Trichlorobenzene	69-130	20	20.66	103		20.41	102		20	1.23	
1,2,4-Trimethylbenzene	76-124	20	20.66	103		20.91	105		20	1.23	
1,2-Dibromo-3-chloropropane	62-128	20	19.2	96		19.19	96		20	0.0378	
1,2-Dibromoethane	77-121	20	19.46	97		20.21	101		20	3.76	
1,2-Dichlorobenzene	80-119	20	20.37	102		20.92	105		20	2.65	
1,2-Dichloroethane	73-128	20	18.82	94		19.44	97		20	3.29	
1,2-Dichloropropane	78-122	20	19.16	96		19.35	97		20	0.973	
1,3,5-Trimethylbenzene	75-124	20	20.34	102		20.81	104		20	2.29	
1,3-Dichlorobenzene	80-119	20	20.76	104		20.94	105		20	0.843	
1,3-Dichloropropane	80-119	20	19.99	100		20.24	101		20	1.25	
1,4-Dichlorobenzene	79-118	20	20.53	103		21.08	105		20	2.62	
2,2-Dichloropropane	60-139	20	17.51	88		17.85	89		20	1.91	
2-Butanone	56-143	40	39.81	100		42.36	106		20	6.21	
2-Chlorotoluene	79-122	20	20.65	103		20.52	103		20	0.61	
2-Hexanone	57-139	40	39.8	100		40.83	102		20	2.56	
4-Chlorotoluene	78-122	20	20.56	103		20.77	104		20	1.05	
4-Isopropyltoluene	77-127	20	20.35	102		20.55	103		20	1	
4-Methyl-2-pentanone	67-130	40	41.31	103		43.44	109		20	5.02	
Acetone	39-160	40	36.59	92		42.57	106		20	15.1	
Benzene	79-120	20	19.6	98		19.54	98		20	0.264	
Bromobenzene	80-120	20	20.76	104		21.06	105		20	1.43	
Bromochloromethane	78-123	20	19.66	98		20.01	100		20	1.77	
Bromodichloromethane	79-125	20	17.22	86		17.56	88		20	1.99	
Bromoform	66-130	20	18.5	92		18.89	94		20	2.08	
Bromomethane	53-141	20	19.47	97		20.49	102		20	5.11	
Carbon disulfide	64-133	40	38.03	95		38.58	96		20	1.43	

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder HS24060747

Volatiles by EPA Volatiles Organics by Method 8260C

SAMPLENUM VLCSW-240615

VOA7_469580			VLCSW-240615			VLCSDW-240615					
Spike Matrix Aqueous	Result Units ug/L		Run Date 06/15/24 Run Time 18:58			Run Date 06/15/24 Run Time 19:21					
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q	LCSD Result	%R	Q	RPD Limit	RPD	Q
Carbon tetrachloride	72-136	20	18.26	91		18.21	91		20	0.225	
Chlorobenzene	82-118	20	19.92	100		20.27	101		20	1.73	
Chloroethane	60-138	20	19.16	96		19.8	99		20	3.33	
Chloroform	79-124	20	18.89	94		19.74	99		20	4.42	
Chloromethane	50-139	20	19.13	96		19.1	96		20	0.194	
cis-1,2-Dichloroethene	78-123	20	18.97	95		19.84	99		20	4.47	
cis-1,3-Dichloropropene	75-124	20	18.21	91		18.51	92		20	1.61	
Dibromochloromethane	74-126	20	18.36	92		18.86	94		20	2.66	
Dibromomethane	79-123	20	19.14	96		19.32	97		20	0.929	
Dichlorodifluoromethane	32-152	20	18.28	91		18.85	94		20	3.1	
Ethylbenzene	79-121	20	19.84	99		20.3	101		20	2.28	
Hexachlorobutadiene	66-134	20	21.04	105		20.86	104		20	0.866	
Isopropylbenzene	72-131	20	20.03	100		20.25	101		20	1.11	
m,p-Xylene	80-121	40	40.57	101		40.85	102		20	0.689	
Methylene chloride	74-124	20	18.79	94		20.23	101		20	7.42	
Naphthalene	61-128	20	19.72	99		19.76	99		20	0.212	
n-Butylbenzene	75-128	20	20.31	102		20.4	102		20	0.441	
n-Propylbenzene	76-126	20	20.35	102		20.38	102		20	0.16	
o-Xylene	78-122	20	20.35	102		20.49	102		20	0.693	
sec-Butylbenzene	77-126	20	20.95	105		21.1	105		20	0.719	
Styrene	78-123	20	20.27	101		20.64	103		20	1.81	
tert-Butylbenzene	78-124	20	20.5	102		20.98	105		20	2.35	
Tetrachloroethene	74-129	20	19.77	99		20.07	100		20	1.53	
Toluene	80-121	20	20.22	101		20.15	101		20	0.337	
trans-1,2-Dichloroethene	75-124	20	17.61	88		19.34	97		20	9.35	
trans-1,3-Dichloropropene	73-127	20	18.21	91		18.51	92		20	1.61	
Trichloroethene	79-123	20	19.02	95		19.43	97		20	2.15	
Trichlorofluoromethane	65-141	20	18.12	91		19.44	97		20	7.04	
Vinyl chloride	58-137	20	18.79	94		19.22	96		20	2.25	

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder HS24060747

Volatiles by EPA Volatiles Organics by Method 8260C

SAMPLENUM VLCSW-240621

VOA9_470169			VLCSW-240621			VLCSDW-240621					
Spike Matrix Aqueous	Result Units ug/L		Run Date 06/21/24 Run Time 10:28			Run Date 06/21/24 Run Time 10:50					
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	18.74	94		18.76	94		20	0.0915	
1,1,1-Trichloroethane	74-131	20	19.46	97		18.97	95		20	2.51	
1,1,2,2-Tetrachloroethane	71-121	20	19.27	96		18.47	92		20	4.26	
1,1,2-Trichloroethane	80-119	20	18.49	92		18.09	90		20	2.21	
1,1-Dichloroethane	77-125	20	15.93	80		15.75	79		20	1.16	
1,1-Dichloroethene	71-131	20	16.62	83		16.18	81		20	2.66	
1,1-Dichloropropene	78-125	20	18.7	94		18.88	94		20	0.934	
1,2,3-Trichlorobenzene	69-129	20	20.06	100		19.47	97		20	2.98	
1,2,3-Trichloropropane	73-122	20	18.46	92		17.87	89		20	3.26	
1,2,4-Trichlorobenzene	69-130	20	20.14	101		19.21	96		20	4.74	
1,2,4-Trimethylbenzene	76-124	20	18.57	93		17.46	87		20	6.19	
1,2-Dibromo-3-chloropropane	62-128	20	19.63	98		19.34	97		20	1.45	
1,2-Dibromoethane	77-121	20	18.4	92		18.36	92		20	0.185	
1,2-Dichlorobenzene	80-119	20	18.37	92		17.72	89		20	3.62	
1,2-Dichloroethane	73-128	20	18.71	94		18.68	93		20	0.113	
1,2-Dichloropropane	78-122	20	17.71	89		17.77	89		20	0.335	
1,3,5-Trimethylbenzene	75-124	20	18.79	94		18.17	91		20	3.39	
1,3-Dichlorobenzene	80-119	20	18.68	93		17.83	89		20	4.63	
1,3-Dichloropropane	80-119	20	18.26	91		18.18	91		20	0.483	
1,4-Dichlorobenzene	79-118	20	19.99	100		19.38	97		20	3.12	
2,2-Dichloropropane	60-139	20	18.81	94		18.19	91		20	3.35	
2-Butanone	56-143	40	34.82	87		35.03	88		20	0.608	
2-Chlorotoluene	79-122	20	18.8	94		18.19	91		20	3.28	
2-Hexanone	57-139	40	36.82	92		37.7	94		20	2.37	
4-Chlorotoluene	78-122	20	19.35	97		18.7	94		20	3.44	
4-Isopropyltoluene	77-127	20	19.06	95		18.35	92		20	3.77	
4-Methyl-2-pentanone	67-130	40	34.82	87		34.7	87		20	0.365	
Acetone	39-160	40	28.57	71		26.58	66		20	7.24	
Benzene	79-120	20	17.73	89		17.74	89		20	0.038	
Bromobenzene	80-120	20	19.37	97		18.75	94		20	3.24	
Bromochloromethane	78-123	20	17.38	87		17.89	90		20	2.9	
Bromodichloromethane	79-125	20	18.13	91		18.65	93		20	2.79	
Bromoform	66-130	20	18.45	92		18.44	92		20	0.0436	
Bromomethane	53-141	20	18.75	94		18.83	94		20	0.414	
Carbon disulfide	64-133	40	33.55	84		32.54	81		20	3.04	

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder HS24060747

Volatiles by EPA Volatiles Organics by Method 8260C

SAMPLENUM VLCSW-240621

VOA9_470169			VLCSW-240621			VLCSDW-240621					
Spike Matrix Aqueous	Result Units ug/L		Run Date 06/21/24 Run Time 10:28			Run Date 06/21/24 Run Time 10:50					
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q	LCSD Result	%R	Q	RPD Limit	RPD	Q
Carbon tetrachloride	72-136	20	19.53	98		19.64	98		20	0.54	
Chlorobenzene	82-118	20	19.94	100		19.46	97		20	2.44	
Chloroethane	60-138	20	15.16	76		15.35	77		20	1.26	
Chloroform	79-124	20	18.86	94		18.61	93		20	1.29	
Chloromethane	50-139	20	17.29	86		16.72	84		20	3.31	
cis-1,2-Dichloroethene	78-123	20	18.34	92		18.87	94		20	2.87	
cis-1,3-Dichloropropene	75-124	20	18.35	92		18.22	91		20	0.702	
Dibromochloromethane	74-126	20	19.49	97		20.04	100		20	2.81	
Dibromomethane	79-123	20	18.11	91		17.91	90		20	1.16	
Dichlorodifluoromethane	32-152	20	19.38	97		18.45	92		20	4.9	
Ethylbenzene	79-121	20	19.38	97		19	95		20	1.97	
Hexachlorobutadiene	66-134	20	21.38	107		20.02	100		20	6.58	
Isopropylbenzene	72-131	20	20.9	105		20.19	101		20	3.48	
m,p-Xylene	80-121	40	40.46	101		39.5	99		20	2.4	
Methylene chloride	74-124	20	16.32	82		16.41	82		20	0.537	
Naphthalene	61-128	20	18.58	93		17.68	88		20	4.92	
n-Butylbenzene	75-128	20	19.46	97		18.25	91		20	6.4	
n-Propylbenzene	76-126	20	19.75	99		19.47	97		20	1.41	
o-Xylene	78-122	20	20.25	101		20.18	101		20	0.313	
sec-Butylbenzene	77-126	20	20.41	102		19.39	97		20	5.11	
Styrene	78-123	20	20.32	102		20.44	102		20	0.583	
tert-Butylbenzene	78-124	20	20.77	104		19.77	99		20	4.9	
Tetrachloroethene	74-129	20	20.9	104		20.12	101		20	3.77	
Toluene	80-121	20	19.06	95		18.81	94		20	1.34	
trans-1,2-Dichloroethene	75-124	20	17.23	86		17.16	86		20	0.382	
trans-1,3-Dichloropropene	73-127	20	17.95	90		17.85	89		20	0.537	
Trichloroethene	79-123	20	19.03	95		18.66	93		20	1.96	
Trichlorofluoromethane	65-141	20	17.9	90		17.68	88		20	1.23	
Vinyl chloride	58-137	20	16.66	83		15.94	80		20	4.45	

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Form 4

Method Blank Summary

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24060747

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

07/22/2024

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 18 24

Workorder HS24060747

Volatiles by EPA Volatiles Organics by Method 8260C

METHOD BLANK	Matrix	Analysis Date	Analysis Batch	Inst ID
VBLKW-240615	Aqueous	06/15/24 20:07	R469580	VOA7

Client Sample ID	Lab Sample ID	Type	Analysis Date	Analysis Batch	Inst ID	FileID
VLCSW-240615	VLCSW-240615	LCS	06/15/24 18:58	R469580	VOA7	X061514.D
VLCSDW-240615	VLCSDW-240615	LCSD	06/15/24 19:21	R469580	VOA7	X061515.D
Trip Blank	HS24060747-10	SAMP	06/15/24 20:30	R469580	VOA7	X061518.D
BatchQC	HS24060434-01MS	MS	06/15/24 22:01	R469580	VOA7	X061522.D
BatchQC	HS24060434-01MSD	MSD	06/15/24 22:24	R469580	VOA7	X061523.D

Form 4 - Method Blank Summary

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder **HS24060747**

Volatiles by EPA Volatiles Organics by Method 8260C

METHOD BLANK	Matrix	Analysis Date	Analysis Batch	Inst ID
VBLKW-240621	Aqueous	06/21/24 11:32	R470169	VOA9

Client Sample ID	Lab Sample ID	Type	Analysis Date	Analysis Batch	Inst ID	FileID
VLCSW-240621	VLCSW-240621	LCS	06/21/24 10:28	R470169	VOA9	U62103.D
VLCSDW-240621	VLCSDW-240621	LCSD	06/21/24 10:50	R470169	VOA9	U62104.D
CO1_061024	HS24060747-08	SAMP	06/21/24 15:12	R470169	VOA9	U62116.D
CO1_061024	HS24060747-08MS	MS	06/21/24 15:34	R470169	VOA9	U62117.D
CO1_061024	HS24060747-08MSD	MSD	06/21/24 15:55	R470169	VOA9	U62118.D
CO9_061024	HS24060747-07	SAMP	06/21/24 16:16	R470169	VOA9	U62119.D
126_061024	HS24060747-09	SAMP	06/21/24 16:38	R470169	VOA9	U62120.D
129_061024	HS24060747-03	SAMP	06/21/24 17:02	R470169	VOA9	U62121.D
1824DPTMW05_061024	HS24060747-01	SAMP	06/21/24 17:23	R470169	VOA9	U62122.D
1824DPTMW05_061024_a	HS24060747-02	SAMP	06/21/24 17:45	R470169	VOA9	U62123.D
120_061024	HS24060747-04	SAMP	06/21/24 18:06	R470169	VOA9	U62124.D
MW14_061024	HS24060747-05	SAMP	06/21/24 18:28	R470169	VOA9	U62125.D
MW23_061024	HS24060747-06	SAMP	06/21/24 18:49	R470169	VOA9	U62126.D

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right partner.

Form 5

Instrument Performance Check

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24060747

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

07/22/2024

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: U62001 BFB Injection Date: 06/20/24

Instrument ID: VOA9 BFB Injection Time: 1102

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	50.1
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	88.5
175	5.0 - 9.0% of mass 174	7.6 (8.6)1
176	95.0 - 101.0% of mass 174	87.1 (98.5)1
177	5.0 - 9.0% of mass 176	5.8 (6.7)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	U62002	06/20/24	1123
02	VSTD00.5	VSTD00.5	U62003	06/20/24	1144
03	VSTD001	VSTD001	U62004	06/20/24	1206
04	VSTD002	VSTD002	U62005	06/20/24	1227
05	VSTD005	VSTD005	U62006	06/20/24	1249
06	VSTD020	VSTD020	U62007	06/20/24	1310
07	VSTD050	VSTD050	U62008	06/20/24	1332
08	VSTD100	VSTD100	U62009	06/20/24	1353
09	VSTD150	VSTD150	U62010	06/20/24	1415
10	VSTD200	VSTD200	U62011	06/20/24	1436
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: U62013 BFB Injection Date: 06/20/24

Instrument ID: VOA9 BFB Injection Time: 1519

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	19.8
75	30.0 - 60.0% of mass 95	49.1
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	82.3
175	5.0 - 9.0% of mass 174	7.4 (8.9)1
176	95.0 - 101.0% of mass 174	81.1 (98.6)1
177	5.0 - 9.0% of mass 176	5.8 (7.1)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	U62014	06/20/24	1540
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

ALS Houston, US Date: 22-Jul-24

Form 5 - Instrument Performance Check
BROMOFLUOROBENZENE (BFB)

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060747 **Run ID:** VOA7_469569

Lab File ID: X061501.D
Instrument ID: VOA7
Injection Date: 15-Jun-2024
Injection Time: 13:38

m/e	Ion Abundance Criterion	% Relative Abundance
50	15.0 - 40.0% of mass 95	21.2
50	15.0 - 40.0% of mass 95	19.3
75	30.0 - 60.0% of mass 95	51.3
75	30.0 - 60.0% of mass 95	50.1
95	Base peak, 100% relative abundance	100.0
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.9
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.0 (0.0) 1
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	greater than 50.0% of mass 95	75.2 (75.2) 1
174	greater than 50.0% of mass 95	77.8 (77.8) 1
175	5.0 - 9.0% of mass 174	6.7 (8.8) 1
175	5.0 - 9.0% of mass 174	6.9 (8.9) 1
176	> 95% but < 101% of mass 174	73.5 (97.7) 1
176	> 95% but < 101% of mass 174	74.9 (96.3) 1
177	5.0 - 9.0% of mass 176	4.3 (5.9) 2
177	5.0 - 9.0% of mass 176	5.3 (7.1) 2

1-Value is % mass 174 2-Value is % mass 176

This check applies to following Samples, MS, MSD, Blanks and Standards

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed
VSTD00.5	VSTD00.5	X061502.D	15-Jun-2024 14:01
VSTD001	VSTD001	X061503.D	15-Jun-2024 14:24
VSTD002	VSTD002	X061504.D	15-Jun-2024 14:46
VSTD005	VSTD005	X061505.D	15-Jun-2024 15:09
VSTD010	VSTD010	X061506.D	15-Jun-2024 15:32
VSTD020	VSTD020	X061507.D	15-Jun-2024 15:55
VSTD050	VSTD050	X061508.D	15-Jun-2024 16:18
VSTD100	VSTD100	X061509.D	15-Jun-2024 16:41
VSTD200	VSTD200	X061510.D	15-Jun-2024 17:04
VSTD50	VSTD50	X061513A.D	15-Jun-2024 18:35

ALS Houston, US Date: 22-Jul-24

Form 5 - Instrument Performance Check
BROMOFLUOROBENZENE (BFB)

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060747 **Run ID:** VOA7_469580

Lab File ID: X061512.D
Instrument ID: VOA7
Injection Date: 15-Jun-2024
Injection Time: 17:50

m/e	Ion Abundance Criterion	% Relative Abundance
50	15.0 - 40.0% of mass 95	19.3
75	30.0 - 60.0% of mass 95	50.1
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	greater than 50.0% of mass 95	77.8 (77.8) 1
175	5.0 - 9.0% of mass 174	6.9 (8.9) 1
176	> 95% but < 101% of mass 174	74.9 (96.3) 1
177	5.0 - 9.0% of mass 176	5.3 (7.1) 2

1-Value is % mass 174 2-Value is % mass 176

This check applies to following Samples, MS, MSD, Blanks and Standards

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed
VSTD50	VSTD50	X061513A.D	15-Jun-2024 18:35
VLCSW-240615	VLCSW-240615	X061514.D	15-Jun-2024 18:58
VLCSDW-240615	VLCSDW-240615	X061515.D	15-Jun-2024 19:21
VBLKW-240615	VBLKW-240615	X061517.D	15-Jun-2024 20:07
Trip Blank	HS24060747-10	X061518.D	15-Jun-2024 20:30
ZZZZZZMS	HS24060434-01MS	X061522.D	15-Jun-2024 22:01
ZZZZZZMSD	HS24060434-01MSD	X061523.D	15-Jun-2024 22:24
VSTD50	VSTD50	X061541.D	16-Jun-2024 05:16

ALS Houston, US

Date: 22-Jul-24

Form 5 - Instrument Performance Check
BROMOFLUOROBENZENE (BFB)

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060747 **Run ID:** VOA9_470169

Lab File ID: U62101.D
Instrument ID: VOA9
Injection Date: 21-Jun-2024
Injection Time: 09:24

m/e	Ion Abundance Criterion	% Relative Abundance
50	15.0 - 40.0% of mass 95	17.5
75	30.0 - 60.0% of mass 95	48.4
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	greater than 50.0% of mass 95	91.6 (91.6) 1
175	5.0 - 9.0% of mass 174	8.2 (8.9) 1
176	> 95% but < 101% of mass 174	87.9 (95.9) 1
177	5.0 - 9.0% of mass 176	6.0 (6.8) 2

1-Value is % mass 174 2-Value is % mass 176

This check applies to following Samples, MS, MSD, Blanks and Standards

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed
VSTD050	VSTD050	U62102.D	21-Jun-2024 09:46
VLCSW-240621	VLCSW-240621	U62103.D	21-Jun-2024 10:28
VLCSDW-240621	VLCSDW-240621	U62104.D	21-Jun-2024 10:50
VBLKW-240621	VBLKW-240621	U62106.D	21-Jun-2024 11:32
CO1_061024	HS24060747-08	U62116.D	21-Jun-2024 15:12
HS24060747-08MS	HS24060747-08MS	U62117.D	21-Jun-2024 15:34
HS24060747-08MSD	HS24060747-08MSD	U62118.D	21-Jun-2024 15:55
CO9_061024	HS24060747-07	U62119.D	21-Jun-2024 16:16
126_061024	HS24060747-09	U62120.D	21-Jun-2024 16:38
129_061024	HS24060747-03	U62121.D	21-Jun-2024 17:02
1824DPTMW05_061024	HS24060747-01	U62122.D	21-Jun-2024 17:23
1824DPTMW05_061024_a	HS24060747-02	U62123.D	21-Jun-2024 17:45
120_061024	HS24060747-04	U62124.D	21-Jun-2024 18:06
MW14_061024	HS24060747-05	U62125.D	21-Jun-2024 18:28
MW23_061024	HS24060747-06	U62126.D	21-Jun-2024 18:49
VSTD050	VSTD050	U62142.D	21-Jun-2024 20:39

Report Date : 22-Jul-2024 15:40 Page 1

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 12-JUN-2024 11:43
End Cal Date : 15-JUN-2024 17:04
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\8260W.m
Last Edit : 22-Jul-2024 15:35 r.patel

Calibration File Names:
Level 1: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061502.D
Level 2: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061503.D
Level 3: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061504.D
Level 4: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061505.D
Level 5: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061506.D
Level 6: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061507.D
Level 7: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061508.D
Level 8: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061509.D
Level 9: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061510.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	0.69108	0.80544	0.86280	0.71767	0.61663	0.71651						
	0.82585	0.83820	0.95150				AVRG		0.78063		13.19769	
2 Dichlorodifluoromethane	617	945	4360	7225	14638	28839						
	67807	134254	292167				LINR	-0.00709	0.52639		0.99949	
182 Isobutylene	+++++	+++++	144	901	1722	4122						
	10572	22250	46322				LINR	0.02287	0.08485		0.99993	<-

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 12-JUN-2024 11:43
End Cal Date : 15-JUN-2024 17:04
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\8260W.m
Last Edit : 22-Jul-2024 15:35 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	1173 / 99995	2511 / 196571	6755 / 419418	11605	22083	41944	LINR	-0.01963	0.75600		0.99975	
4 Propionitrile	1567 / 88867	1953 / 178969	5593 / 364385	8704	18049	35353	LINR	-0.19627	0.06630		0.99980	
5 Vinyl Chloride	920 / 89994	1452 / 178644	5443 / 390540	9844	19207	36777	LINR	-0.00273	0.70364		0.99949	
178 Ethylene oxide	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
6 Bromomethane	676 / 49751	1490 / 98215	3738 / 205045	5926	10679	20870	LINR	-0.02778	0.37035		0.99986	
7 Chloroethane	555 / 55213	994 / 108971	3631 / 235748	6277	11324	22690	LINR	-0.00831	0.42505		0.99963	

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 12-JUN-2024 11:43
End Cal Date : 15-JUN-2024 17:04
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\8260W.m
Last Edit : 22-Jul-2024 15:35 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	
8 Trichlorofluoromethane	866 118069	1387 232452	6842 502365	13237	24641	48951	LINR	-0.00721	0.90654		0.99963	
9 Acrolein	+++++ 0.01490	+++++ 0.01610	+++++ 0.01244	0.01286	0.01449	0.01373	AVRG		0.01409		9.63734	<-
10 Acetone	1666 46665	2175 87964	4581 183152	6604	10572	20213	LINR	-0.11951	0.16421		0.99960	
11 1,1-Dichloroethene	512 66065	872 130927	3570 285852	6851	13278	26084	LINR	0.00313	0.51609		0.99957	
12 Isobutyl Alcohol	3890 215753	5734 430883	13006 902069	23318	45161	89796	LINR	-0.37263	0.08160		0.99993	
13 Acetonitrile	1925 98067	2072 201548	4734 422464	10962	20967	42483	LINR	-0.12656	0.07648		0.99989	
14 Allyl Chloride	4145 208497	4733 421791	12586 869165	21819	42736	86958	LINR	-0.01918	1.57717		0.99990	

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 12-JUN-2024 11:43
End Cal Date : 15-JUN-2024 17:04
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\8260W.m
Last Edit : 22-Jul-2024 15:35 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
15 Iodomethane	618 160800	1727 331334	6420 752080	13007	27400	58277	LINR	0.07694	0.67992		0.99854
16 Acrylonitrile	729 46177	891 92283	2570 191487	3482	8583	19099	LINR	-0.01852	0.17413		0.99980
17 Methylene Chloride	2072 78686	3218 150347	5964 316697	9761	16881	32051	LINR	-0.03625	0.57005		0.99977
18 Methyl tert-butyl ether	3223 173468	3682 369312	9601 789645	18018	35843	71378	LINR	0.00577	1.42889		0.99969
19 Carbon Disulfide	4375 403665	7853 802720	24820 1741724	45001	83855	166994	LINR	-0.01155	1.56991		0.99961
20 trans-1,2-Dichloroethene	436 69367	1186 136803	3881 294156	7190	14138	28094	LINR	-0.00539	0.53158		0.99975
21 Vinyl Acetate	1101 77286	2448 142907	5183 303449	9154	15481	31984	LINR	-0.06747	0.27342		0.99935

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 12-JUN-2024 11:43
End Cal Date : 15-JUN-2024 17:04
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\8260W.m
Last Edit : 22-Jul-2024 15:35 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
22 1,1-Dichloroethane	1.21092	1.14931	1.45623	1.18246	1.16110	1.13194					
	1.12152	1.07050	1.09514				AVRG		1.17546		9.66710
23 Chloroprene	1169	1900	6709	12691	24627	48530					
	119116	237619	517186				LINR	-0.00067	0.93307		0.99959
24 2-Butanone	1922	2851	5001	8477	13788	26703					
	61852	120765	252867				LINR	-0.08560	0.22722		0.99984
25 Methacrylonitrile	+++++	0.66524	0.76365	0.89784	0.78089	0.88953					
	0.82772	0.95634	0.88542				AVRG		0.83333		11.20739
26 2,2-Dichloropropane	1.03839	0.82157	1.33791	1.01510	0.91934	0.98863					
	0.96276	0.93500	0.96127				AVRG		0.99777		14.23657
27 cis-1,2-Dichloroethene	581	1560	4389	8496	15946	30961					
	78589	153510	326517				LINR	-0.01063	0.59067		0.99983
28 Chloroform	1624	3399	8279	14700	28858	56287					
	140096	275001	578887				LINR	-0.01599	1.04769		0.99988

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Method file : \\NAHSTWS005\Target\chem\voa7.i\P240615.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
29 Bromochloromethane	252 38434	808 74665	2129 159282	3897	7632	14921	LINR	-0.00826	0.28823		0.99980
31 1,1,1-Trichloroethane	1107 121911	1878 240720	6669 518715	11751	24009	47625	LINR	-0.00013	0.93827		0.99976
32 1,1-Dichloropropene	1117 104921	1749 204839	6316 449030	11612	20893	42007	LINR	0.00249	0.49163		0.99902
33 1,2-Dichloroethane	1258 119958	2750 232210	7132 487787	12357	23794	44715	LINR	-0.00873	0.53702		0.99976
34 Carbon Tetrachloride	1128 103211	1790 207646	5848 461014	10309	19473	39998	LINR	0.01847	0.50529		0.99865
37 Benzene	3137 286859	6318 566674	17570 1202917	31340	60291	118343	LINR	-0.00969	1.32027		0.99966
38 Trichloroethene	802 74816	1475 144899	4355 313152	8145	14480	29895	LINR	-0.00289	0.34340		0.99935

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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	0.59634 0.50857	0.58020 0.49171	0.74995 0.51286	0.54640	0.51023	0.51364	 AVRG		0.55666		14.49055
40 Methyl Methacrylate	+++++ 67573	1742 141838	4678 284906	8143	15048	30778	 LINR	-0.03545	0.51678		0.99955
41 2-Chloroethylvinyl ether	758 60694	1519 122206	3297 285285	5890	11392	23020	 QUAD	-0.03010	7.77780	-1.12122	0.99982
42 1,2-Dichloropropane	1024 83636	1795 162499	5229 346536	8231	17398	33533	 LINR	-0.00851	0.38036		0.99958
43 2-Nitropropane	450 21914	593 45563	1657 100260	2378	4212	9001	 LINR	0.00688	0.18055		0.99915
44 Dibromomethane	452 47163	1021 93384	2780 199194	4876	9510	18203	 LINR	-0.00085	0.21891		0.99964
45 4-Methyl-2-Pentanone	2130 154085	4091 294844	9850 630364	18025	32018	62229	 LINR	-0.03700	0.36732		0.99948

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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
46 cis-1,3-Dichloropropene	1394 114066	2713 231041	6773 504454	12123	22745	45737	LINR	0.00852	0.55289		0.99909
49 Ethyl Methacrylate	+++++ 92940	2257 206010	5298 479491	8382	17396	34541	QUAD	0.00067	2.36615	-0.22787	0.99990
50 Toluene	3659 300469	6541 584385	18783 1248377	32403	62276	122540	LINR	-0.01263	1.45680		0.99958
51 trans-1,3-Dichloropropene	1394 114066	2713 231041	6773 504454	12123	22745	45737	LINR	0.00852	0.55289		0.99909
52 2-Hexanone	1458 107938	3084 205316	6816 418635	11468	21713	41660	LINR	-0.05968	0.24579		0.99941
53 1,1,2-Trichloroethane	636 58061	1325 111437	3483 232912	6253	11359	22410	LINR	-0.01715	0.27286		0.99963
54 1,3-Dichloropropane	1496 122388	3036 237393	7570 502687	13167	25023	49217	LINR	-0.01523	0.58729		0.99966

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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	0.40306 0.39770	0.43462 0.37826	0.52948 0.39417	0.39306	0.37329	0.38218	AVRG		0.40954		11.81992
56 Tetrachloroethene	704 57283	913 110367	3466 242940	6024	11042	23595	LINR	-0.00157	0.28285		0.99901
57 1,2-Dibromoethane	715 59797	1535 116739	3930 248060	6959	12804	24851	LINR	-0.01826	0.28926		0.99963
58 1-Chlorohexane	+++++ 76561	3458 141700	6865 303981	9909	17306	32894	LINR	-0.04695	0.32996		0.99908
59 Chlorobenzene	2223 196413	4359 383778	12490 816634	22124	39917	80596	LINR	-0.01347	0.95332		0.99964
60 1,1,1,2-Tetrachloroethane	736 68615	1575 135220	4146 300759	7002	13676	26330	LINR	0.00929	0.35011		0.99885
61 Ethylbenzene	957 103348	1961 195525	6293 424071	11221	20636	41428	LINR	-0.01060	0.49426		0.99920

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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	
62 m,p-Xylenes	3068 254041	5521 496095	15967 1059701	27245	52278	102849	LINR	-0.02201	0.61848		0.99961	
63 o-Xylene	1283 124111	2749 238580	7810 509699	13725	24914	50923	LINR	-0.01490	0.59475		0.99949	
64 Styrene	2460 218355	4857 421929	13408 903128	23337	44716	88577	LINR	-0.01235	1.05388		0.99953	
65 cis-1,4-Dichloro-2-butene	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
66 Bromoform	0.25273 0.25295	0.26607 0.23840	0.33208 0.25531	0.24812	0.23923	0.23922	AVRG		0.25823		11.29023	
67 Isopropylbenzene	3442 317579	6133 614244	20031 1334335	33644	63249	129852	LINR	-0.00645	1.55503		0.99930	
68 1,1,2,2-Tetrachloroethane	1141 89714	2231 173120	5353 364431	9701	18424	34557	LINR	-0.01538	0.82288		0.99909	

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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
71 1,2,3-Trichloropropane	1285 100875	2623 194918	6201 415838	11078	20796	39172	LINR	-0.01202	0.93728		0.99882
72 trans-1,4-Dichloro-2-butene	151 21969	625 42273	1262 93967	2178	4519	8453	LINR	0.00346	0.10933		0.99882
73 n-Propylbenzene	4037 388200	7684 759621	23920 1657867	40578	76526	156297	LINR	0.00029	3.73284		0.99823
74 Bromobenzene	883 85404	1940 165119	5157 359110	8991	17462	33759	LINR	-0.00411	0.80841		0.99830
75 1,3,5-Trimethylbenzene	3399 275793	5830 543342	17230 1199205	29207	55087	111094	LINR	0.00420	2.69669		0.99786
76 2-Chlorotoluene	2704 238653	5439 465237	15070 995846	25653	48163	96301	LINR	-0.00944	2.24441		0.99876
77 4-Chlorotoluene	3264 282358	6290 546420	17334 1184483	30030	56243	112941	LINR	-0.00538	2.66710		0.99839

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78 tert-Butylbenzene	2356 231832	4454 452739	13885 969754	24227	44107	93334	LINR	-0.00490	2.18831		0.99876	
79 1,2,4-Trimethylbenzene	3450 278876	5961 540224	16705 1174459	28869	54690	111249	LINR	-0.00278	2.64501		0.99832	
80 Pentachloroethane	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
81 sec-Butylbenzene	3154 317082	5578 620159	18544 1357880	32307	61000	126981	LINR	0.00375	3.05888		0.99815	
82 p-Isopropyltoluene	2821 285951	5195 560605	17126 1222531	28883	55271	112629	LINR	0.00355	2.75536		0.99831	
83 1,3-Dichlorobenzene	1745 156769	3358 306521	9329 661530	16526	30823	61913	LINR	-0.00267	1.49126		0.99860	
84 1,4-Dichlorobenzene	1786 162202	3741 313580	9700 669697	17198	31726	63976	LINR	-0.00895	1.51076		0.99879	

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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	
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	3261 271859	4888 528102	16170 1137513	26108	50748	106249	LINR	-0.00055	2.56778		0.99863	
88 1,2-Dichlorobenzene	1679 152096	3305 298497	8741 632693	14740	29096	58851	LINR	-0.00406	1.43049		0.99908	
89 1,2-Dibromo-3-Chloropropane	+++++ 0.14275	0.15700 0.13916	0.19470 0.14618	0.13353	0.13240	0.13638	AVRG		0.14776		13.91271	<-
90 1,2,4-Trichlorobenzene	901 97036	2045 198441	5210 425707	9039	16917	35263	LINR	0.01636	0.96419		0.99890	
91 Hexachlorobutadiene	279 46780	674 94036	2304 203423	4213	8542	17891	LINR	0.01446	0.46021		0.99871	

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92 Naphthalene	2.26780	2.34112	2.82925	2.01805	1.80400	1.93540						
	2.05350	1.94901	2.10538				AVRG		2.14483		14.24156	
93 1,2,3-Trichlorobenzene	0.75487	0.87177	1.02769	0.74847	0.65808	0.72434						
	0.74454	0.71673	0.78024				AVRG		0.78075		13.92919	
130 Ethyl Acetate	6119	10732	25930	44597	85403	170533						
	443002	897857	1931046				LINR	0.00284	3.49272		0.99978	
131 Methyl Acrylate	+++++	1547	4529	7951	15184	29836						
	70420	144382	294954				LINR	-0.02575	0.53484		0.99986	
132 n-Butanol	+++++	+++++	0.01372	0.01604	0.01587	0.01726						
	0.01565	0.01655	0.01637				AVRG		0.01592		6.93025	
133 Ethyl Acrylate	+++++	1.23195	1.55978	1.45553	1.37915	1.42992						
	1.40016	1.40699	1.39140				AVRG		1.40686		6.46621	
134 Cyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-

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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	
135 1,4-Dioxane	203 / 10767	143 / 21568	722 / 43691	1050	2043	3941	LINR	-0.29422	0.00399		0.99964	
136 n-Hexane	529 / 85930	594 / 156768	4304 / 360049	7851	14466	31606	LINR	0.01459	0.64821		0.99806	
137 n-Pentane	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
138 Freon TF	380 / 66163	573 / 128005	3581 / 284404	6709	12911	26055	LINR	0.00598	0.51267		0.99918	
146 Methyl Acetate	+++++ / 53208	346 / 102095	3471 / 219776	5521	12109	21764	LINR	-0.01879	0.39595		0.99951	
147 Methylcyclohexane	+++++ / 100708	447 / 215181	1703 / 469723	9878	18627	39114	LINR	0.04053	0.51921		0.99903	
149 Isopropyl alcohol	+++++ / 67928	1689 / 129745	4553 / 271337	7128	12916	28470	LINR	-0.60968	0.02451		0.99960	

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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	8638	10862	33216	52716	105868	205136						
	510749	1084199	2215844				LINR	-0.12697	0.13028		0.99994	
148 Tert-butyl alcohol	+++++	0.04214	0.05619	0.03626	0.03419	0.03518						
	0.03106	0.02963	0.03056				AVRG		0.03690		23.74233	<-
139 Diethyl ether	+++++	0.39287	0.45181	0.32867	0.29979	0.33019						
	0.36581	0.37488	0.37202				AVRG		0.36451		12.80147	
140 1,3-Butadiene	214	586	1902	3822	7850	16653						
	40631	81637	182119				LINR	0.01477	0.32843		0.99909	
141 Cyclohexane	+++++	3665	9369	14123	23825	46236						
	113099	222012	489133				LINR	-0.01317	0.87711		0.99918	

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142 Tetrahydrofuran	337 22991	607 45899	1504 105694	2220	4755	9492	LINR	0.02951	0.09474		0.99791	
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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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	+++++ / 1.92423	1.90086 / 1.93787	2.54491 / 1.91206	1.91461	1.82740	1.92176	AVRG		1.98546		11.51048	
158 Propylene oxide	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
159 Dichlorofluoromethane	+++++ / 0.98956	1.01618 / 0.99103	1.17097 / 0.97287	1.09930	1.03342	1.05637	AVRG		1.04121		6.38965	
160 Epichlorohydrin	109 / 18432	318 / 37467	1017 / 79218	1794	3458	7172	LINR	0.02686	0.02183		0.99978	
161 Butyl acrylate	+++++ / 163025	3946 / 352204	9733 / 724805	16083	32123	64266	LINR	0.00497	0.85336		0.99988	
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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Start Cal Date : 12-JUN-2024 11:43
End Cal Date : 15-JUN-2024 17:04
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\8260W.m
Last Edit : 22-Jul-2024 15:35 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	+++++	3.15153	3.16499	2.55809	2.36739	2.46077						
	2.33670	2.23614	2.32686				AVRG		2.57531		14.45541	
167 Ethanol	213	357	850	1493	2526	4446						
	10513	20203	38509				QUAD	-0.54867	235	189	0.99994	
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	0.72297	0.78609	0.84439	0.61085	0.55447	0.59882						
	0.67002	0.66198	0.76209				AVRG		0.69019		13.88641	

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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	
172 tert-Butyl formate	+++++ / 79724	2194 / 156003	5791 / 336149	9103	17506	35062	LINR	-0.04964	0.30190		0.99953	
173 3,3-Dimethyl-1-butanol	+++++ / 129798	3141 / 282604	7547 / 656537	9707	25111	46934	QUAD	0.07374	31.68724	-1.88388	0.99990	
174 tert-Amyl methyl ether	+++++ / 189636	4784 / 398312	11736 / 840188	20716	39115	78689	LINR	-0.00356	1.52123		0.99986	
175 tert-Butyl ethyl ether	+++++ / 1.62318	1.64885 / 1.66580	2.17735 / 1.68059	1.59764	1.57884	1.66685	AVRG		1.70489		11.39076	
176 tert-Amyl alcohol	+++++ / 79111	2244 / 151183	5269 / 319518	7972	15952	31609	LINR	-0.49670	0.02884		0.99972	
179 Hexachloroethane	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
180 2-Furfural	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-

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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	2765 215753	4776 430883	13006 902069	23318	45161	89796	LINR	-0.01206	0.99185		0.99983	
184 n-Amyl acetate	2202 158246	4173 329197	9084 709851	16091	30467	61241	LINR	0.01101	0.83003		0.99952	
185 Acetaldehyde	418 41280	1282 82329	2195 175217	4414	10172	18371	LINR	-0.08582	0.07895		0.99962	<-
186 n-Butyl acetate	1945 122473	3629 239739	7800 496957	12732	24410	46894	LINR	-0.01749	0.58254		0.99979	
187 2-Etyhlhexyl Acrylate	66.00000 65136	362 157065	633 412027	1446	4941	14116	QUAD	0.06944	1.55327	-0.13541	0.99833	<-
188 Tetrahydrothiophene	1247 78695	1726 161935	4279 335016	7400	15450	30843	LINR	-0.00331	0.39376		0.99997	
189 sec-Butyl Ether	1596 70483	1835 137710	3772 269472	8224	15913	30749	LINR	-0.04968	0.31753		0.99872	

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		0.5000000	1.0000	2.0000	5.0000	10.0000	20.0000		Coefficients			%RSD
	Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b	m1	m2	or R^2
		50.0000	100.0000	200.0000								
		Level 7	Level 8	Level 9								
	190 Isoprene	+++++	194	1099	2371	4929	7304					
		18184	39454	85840				LINR	0.00729	0.15477		0.99887
	191 2-Chloropropene	+++++	0.94127	0.76365	0.89784	0.78089	0.88953					
		0.82772	0.95634	0.82417				AVRG		0.86018		8.34390
M	94 1,2-Dichloroethylene (total)	1017	2746	8270	15686	30084	59055					
		147956	290313	620673				LINR	-0.01632	0.56112		0.99980
M	95 Xylenes (total)	4351	8270	23777	40970	77192	153772					
		378152	734675	1569400				LINR	-0.02956	0.57376		0.99954
$	30 Dibromofluoromethane	+++++	+++++	4411	7541	13555	28103					
		70864	136360	284861				QUAD	-0.02163	1.90596	0.01799	0.99979
$	35 1,2-Dichloroethane-d4	+++++	+++++	6311	9398	18078	36252					
		95083	181002	373277				QUAD	-0.01637	1.40913	0.02647	0.99975
$	48 Toluene-d8	+++++	+++++	16366	25974	50267	99784					
		255028	478121	1013765				QUAD	-0.02860	0.85276	-0.00140	0.99932

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Compound	0.5000000 Level 1	1.0000 Level 2	2.0000 Level 3	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	50.0000 Level 7	100.0000 Level 8	200.0000 Level 9								
$ 69 4-Bromofluorobenzene	+++++ 101258	5645 190458	7721 396379	12049	20656	39550	QUAD	-0.03913	2.14085	0.01500	0.99952

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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

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Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\8260C.m
Last Edit : 29-Jun-2024 12:29 VOA9.i

Calibration File Names:
Level 1: \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62002.D
Level 2: \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62003.D
Level 3: \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62004.D
Level 4: \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62005.D
Level 5: \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62006.D
Level 6: \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62007.D
Level 7: \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62008.D
Level 8: \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62009.D
Level 9: \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62010.D
Level 10: \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62011.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	+++++ / 0.37999	0.30892 / 0.35637	0.25567 / 0.37423	0.37587 / 0.37380	0.41361	0.37532	AVRG		0.35709		13.12952
3 Chloromethane	+++++ / 198562	7597 / 359325	8737 / 541083	13423 / 722213	23869	86062	QUAD	-0.03052	1.26050	0.07990	0.99985
4 Propionitrile	+++++ / 121156	1664 / 233070	2871 / 353474	5919 / 516743	10856	47549	QUAD	-0.13748	22.31330	-0.80968	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	
5 Vinyl Chloride	+++++ / 112466	1139 / 214186	1918 / 335402	4934 / 475593	11209	45157	LINR	0.00254	0.44441		0.99976	
6 Bromomethane	+++++ / 44204	1451 / 79022	1849 / 130142	2855 / 186065	5361	19198	QUAD	-0.04761	6.50572	-1.04271	0.99926	
7 Chloroethane	+++++ / 72630	989 / 133622	1738 / 208991	3881 / 287756	7341	29401	QUAD	-0.01355	3.60280	0.08858	0.99978	
8 Trichlorofluoromethane	+++++ / 0.50294	0.42767 / 0.48543	0.32944 / 0.50100	0.50453 / 0.49017	0.55127	0.51761	AVRG		0.47889		13.53109	
9 Acrolein	+++++ / 8374	+++++ / 15190	371 / 24292	728 / 36445	1238	3234	QUAD	-0.14205	72.27362	-92.75420	0.99936	<-
10 Acetone	+++++ / 68845	2584 / 133780	3054 / 182887	5656 / 250030	8644	28441	LINR	-0.15618	0.11861		0.99651	
11 1,1-Dichloroethene	+++++ / 0.28710	0.30300 / 0.27514	0.25356 / 0.27226	0.34834 / 0.27212	0.31783	0.29582	AVRG		0.29169		9.80778	

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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	
12 Isobutyl Alcohol	+++++	0.05637	0.05307	0.05174	0.04489	0.04533						
	0.04802	0.04718	0.04811	0.04951			AVRG		0.04936		7.61262	
13 Acetonitrile	+++++	1086	1990	4085	9127	39916						
	103396	192653	280872	398444			LINR	-0.20894	0.03742		0.99925	
14 Allyl Chloride	+++++	3115	5257	9919	21197	93616						
	235927	444263	651842	929291			QUAD	-0.00979	1.10974	0.01255	0.99958	
15 Iodomethane	+++++	+++++	1546	2557	4981	20114						
	56866	128699	236209	+++++			QUAD	0.00734	9.44710	-3.25498	0.99976	<-
16 Acrylonitrile	+++++	1025	1767	3090	6082	25226						
	63044	118455	179501	262510			LINR	-0.01022	0.12136		0.99924	
17 Methylene Chloride	+++++	2895	3728	6118	11392	38417						
	91024	159588	251424	332519			QUAD	-0.03191	2.85164	0.27549	0.99918	
18 Methyl tert-butyl ether	+++++	2745	4855	9527	19601	87519						
	217335	417535	637081	938308			LINR	0.00839	0.86719		0.99901	

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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	+++++	0.82787	0.68469	0.86372	0.81966	0.80309					
	0.83073	0.80299	0.80057	0.80117			AVRG		0.80383		6.11839
20 trans-1,2-Dichloroethene	+++++	1102	1556	3775	8011	32296					
	79342	147881	230456	321804			QUAD	-0.01251	3.31853	-0.00504	0.99985
21 Vinyl Acetate	+++++	1114	2234	3669	8018	34793					
	90820	169891	263548	370669			LINR	-0.00640	0.17384		0.99986
22 1,1-Dichloroethane	+++++	1965	3062	7303	15421	62083					
	151105	280383	435781	606734			LINR	-0.01591	0.56953		0.99983
23 Chloroprene	+++++	1330	2091	5563	12911	51433					
	127812	239330	377420	525056			LINR	-0.00506	0.49345		0.99981
24 2-Butanone	+++++	1392	2089	3511	7854	33931					
	88567	168677	264601	368971			LINR	0.00291	0.17357		0.99987
25 Methacrylonitrile	+++++	715	1366	1915	4226	19125					
	53283	109481	168016	230621			QUAD	0.01665	4.47297	0.10311	0.99967

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26 2,2-Dichloropropane	+++++ / 116047	1204 / 221563	1823 / 352166	4589 / 497369	10989	44921	LINR	0.01124	0.46578		0.99963
27 cis-1,2-Dichloroethene	+++++ / 94216	1138 / 175084	1910 / 274517	4314 / 381674	9100	36622	QUAD	-0.00757	2.78841	-0.00160	0.99982
28 Chloroform	+++++ / 156020	2093 / 287623	3088 / 445066	7659 / 617716	15346	62582	LINR	-0.01765	0.58087		0.99979
29 Bromochloromethane	+++++ / 0.18491	0.24426 / 0.17638	0.19855 / 0.17571	0.25107 / 0.17549	0.20591	0.18926	AVRG		0.20017		14.45256
31 1,1,1-Trichloroethane	+++++ / 0.49060	0.44373 / 0.47307	0.33260 / 0.49085	0.48618 / 0.49465	0.48811	0.47815	AVRG		0.46421		11.14156
32 1,1-Dichloropropene	+++++ / 0.30998	0.37016 / 0.29942	0.22159 / 0.31482	0.30083 / 0.31521	0.30455	0.30853	AVRG		0.30501		12.42473
33 1,2-Dichloroethane	+++++ / 124711	1931 / 229280	2677 / 348168	6181 / 485948	12903	51020	LINR	-0.02293	0.31700		0.99976

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34 Carbon Tetrachloride	+++++	0.24382	0.18673	0.24702	0.25783	0.25612						
	0.26841	0.26688	0.28622	0.28776			AVRG		0.25564		11.75498	
37 Benzene	+++++	1.37973	1.01310	1.15868	0.99291	0.96387						
	0.97009	0.90438	0.94121	0.93732			AVRG		1.02903		14.60665	
38 Trichloroethene	+++++	0.28212	0.21891	0.28390	0.25402	0.24479						
	0.24362	0.23377	0.24293	0.24345			AVRG		0.24972		8.47979	
39 Bromodichloromethane	+++++	0.30899	0.26323	0.29970	0.26774	0.27305						
	0.30198	0.29078	0.30438	0.30770			AVRG		0.29084		6.21317	
40 Methyl Methacrylate	+++++	0.11368	0.12372	0.14305	0.11757	0.12787						
	0.13149	0.13600	0.13806	0.14614			AVRG		0.13084		8.51295	
41 2-Chloroethylvinyl ether	+++++	+++++	+++++	106	225	1519						
	4138	12610	35270	+++++			QUAD	0.18296	143	-856	0.99496	<-
42 1,2-Dichloropropane	+++++	0.34900	0.26252	0.31155	0.26373	0.25473						
	0.25977	0.24559	0.25357	0.25259			AVRG		0.27256		12.65048	

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43 2-Nitropropane	+++++	+++++	0.07525	0.07663	0.05955	0.07004						
	0.08094	0.08288	0.08901	0.09814			AVRG		0.07905		14.84301	<-
44 Dibromomethane	+++++	0.20666	0.15215	0.17115	0.15721	0.15166						
	0.15308	0.14350	0.14794	0.14850			AVRG		0.15909		12.23409	
45 4-Methyl-2-Pentanone	+++++	0.31939	0.25209	0.29012	0.25825	0.25924						
	0.27548	0.26571	0.27757	0.28214			AVRG		0.27556		7.47541	
46 cis-1,3-Dichloropropene	+++++	0.35872	0.28341	0.32156	0.29000	0.31961						
	0.36018	0.35762	0.38033	0.38678			AVRG		0.33980		11.08057	
49 Ethyl Methacrylate	+++++	0.39874	0.26605	0.31895	0.27691	0.30360						
	0.30657	0.31115	0.32396	0.35194			AVRG		0.31754		12.43724	
50 Toluene	+++++	1.31272	1.01754	1.26075	1.12510	1.13895						
	1.16429	1.06580	1.08866	1.07214			AVRG		1.13844		8.38769	
51 trans-1,3-Dichloropropene	+++++	864	1381	3367	7790	38067						
	107819	213403	345365	495274			LINR	0.04423	0.32223		0.99860	

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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								
52 2-Hexanone	+++++	2202	3306	6913	14994	53773						
	120971	232489	364859	529191			LINR	-0.01752	0.18350		0.99909	
53 1,1,2-Trichloroethane	+++++	0.27729	0.22322	0.24692	0.22099	0.21025						
	0.21227	0.19516	0.19881	0.19630			AVRG		0.22013		12.23326	
54 1,3-Dichloropropane	+++++	0.55712	0.45435	0.51519	0.45473	0.44614						
	0.45732	0.41794	0.43274	0.42830			AVRG		0.46265		9.72403	
55 Dibromochloromethane	+++++	0.19911	0.19364	0.21625	0.19521	0.22748						
	0.25620	0.25023	0.26347	0.26547			AVRG		0.22967		13.02207	
56 Tetrachloroethene	+++++	0.20101	0.18589	0.23241	0.22529	0.22064						
	0.22236	0.20561	0.21222	0.21216			AVRG		0.21306		6.65572	<-
57 1,2-Dibromoethane	+++++	0.29027	0.21816	0.24763	0.23491	0.23547						
	0.25027	0.23310	0.23771	0.23943			AVRG		0.24299		8.21392	
58 1-Chlorohexane	+++++	3858	4107	5605	9239	28802						
	67624	128328	205637	297557			LINR	-0.01473	0.18971		0.99821	

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Method file : \\NAHSTWS005\Target\chem\voa9.i\U240620.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	
59 Chlorobenzene	+++++	3328	4783	10976	24286	96445						
	241338	439831	691759	967685			LINR	-0.01567	0.68140		0.99953	
60 1,1,1,2-Tetrachloroethane	+++++	0.27476	0.22338	0.24912	0.22839	0.23823						
	0.25144	0.23828	0.24785	0.24975			AVRG		0.24458		6.14616	
61 Ethylbenzene	+++++	0.37859	0.28634	0.36893	0.34142	0.35953						
	0.37144	0.34429	0.36106	0.35927			AVRG		0.35232		7.80205	
62 m,p-Xylenes	+++++	0.41088	0.31877	0.40660	0.39472	0.44889						
	0.47000	0.43532	0.45104	0.44951			AVRG		0.42064		10.81270	
63 o-Xylene	+++++	0.40834	0.33523	0.38165	0.38678	0.44251						
	0.46639	0.42598	0.44320	0.44056			AVRG		0.41451		9.82952	
64 Styrene	+++++	0.68437	0.51257	0.67557	0.61758	0.70924						
	0.76892	0.73388	0.76849	0.76657			AVRG		0.69302		12.22610	
65 cis-1,4-Dichloro-2-butene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-

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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
66 Bromoform	+++++	363	774	1781	3703	17069					
	51889	106443	177855	259431			QUAD	0.01896	6.52077	-1.52733	0.99958
67 Isopropylbenzene	+++++	0.91545	0.74544	0.99876	1.01865	1.10296					
	1.14820	1.08499	1.12809	1.11313			AVRG		1.02841		12.58596
68 1,1,2,2-Tetrachloroethane	+++++	1485	2063	4977	11238	46115					
	117242	217556	337416	472868			LINR	-0.00655	0.61269		0.99955
71 1,2,3-Trichloropropane	+++++	1417	2095	4881	10668	43891					
	113449	220140	349375	495644			LINR	0.01645	0.64030		0.99906
72 trans-1,4-Dichloro-2-butene	+++++	0.09591	0.06312	0.06348	0.06112	0.06699					
	0.07125	0.06836	0.06845	0.07014			AVRG		0.06987		14.80397
73 n-Propylbenzene	+++++	1.92580	1.59095	2.13173	2.04549	2.29639					
	2.45392	2.24547	2.34079	2.42855			AVRG		2.16212		12.76776
74 Bromobenzene	+++++	0.70656	0.53735	0.67143	0.56594	0.55821					
	0.58377	0.54202	0.55481	0.56690			AVRG		0.58744		10.18394

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75 1,3,5-Trimethylbenzene	+++++	2304	3570	8809	19300	101450					
	297172	586805	932820	1306821			LINR	0.03383	1.70542		0.99931
76 2-Chlorotoluene	+++++	1.73254	1.30730	1.49668	1.45851	1.45015					
	1.50067	1.37840	1.40865	1.43584			AVRG		1.46319		8.03160
77 4-Chlorotoluene	+++++	1.82917	1.48886	1.68480	1.57172	1.68053					
	1.73951	1.61343	1.65492	1.68242			AVRG		1.66060		5.86001
78 tert-Butylbenzene	+++++	1.11769	1.00103	1.26564	1.31703	1.41204					
	1.48123	1.38863	1.42639	1.45022			AVRG		1.31776		12.38367
79 1,2,4-Trimethylbenzene	+++++	1.53067	1.86818	1.80967	1.34921	1.31864					
	1.56517	1.52938	1.65540	1.69338			AVRG		1.59108		11.75878
80 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
81 sec-Butylbenzene	+++++	1.54052	1.33266	1.63699	1.69018	1.85118					
	1.96225	1.87627	1.93902	1.96569			AVRG		1.75497		12.54327

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82 p-Isopropyltoluene	+++++	2165	3438	8854	22757	106929						
	303882	597283	955586	1343308			LINR	0.03295	1.74866		0.99916	
83 1,3-Dichlorobenzene	+++++	1.42419	1.02181	1.20180	1.04916	1.00155						
	1.05921	0.97316	0.99442	1.00293			AVRG		1.08091		13.44245	
84 1,4-Dichlorobenzene	+++++	2680	3940	8802	19458	78002						
	197609	365510	567963	786101			LINR	-0.01262	1.02210		0.99966	
85 bis(2-Chloro-isopropyl)ether	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
86 Benzyl Chloride	+++++	+++++	+++++	26630	34406	69765						
	146462	265629	428103	611338			LINR	-0.10862	0.41252		0.99732	
87 n-Butylbenzene	+++++	1966	2847	7724	22522	99934						
	267172	534334	845811	1186519			LINR	0.02722	1.54483		0.99943	
88 1,2-Dichlorobenzene	+++++	1.46789	1.05757	1.17195	1.04368	1.00886						
	1.03596	0.95334	0.96982	0.97685			AVRG		1.07621		14.92602	

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89 1,2-Dibromo-3-Chloropropane	+++++	119	163	571	1208	5187						
	14223	29112	48564	71040			QUAD	0.00486	13.46560	-7.40061	0.99985	<-
90 1,2,4-Trichlorobenzene	+++++	0.76256	0.58961	0.61411	0.58360	0.61431						
	0.66411	0.65608	0.68125	0.69437			AVRG		0.65111		8.83242	
91 Hexachlorobutadiene	+++++	0.28496	0.27784	0.29622	0.28781	0.28252						
	0.29019	0.28308	0.29507	0.30067			AVRG		0.28871		2.58347	
92 Naphthalene	+++++	2273	3393	8058	17811	87164						
	267603	549668	862491	1208773			LINR	0.03919	1.58099		0.99931	
93 1,2,3-Trichlorobenzene	+++++	0.62655	0.54804	0.62139	0.55574	0.56859						
	0.61333	0.59506	0.61193	0.62503			AVRG		0.59618		5.18590	
130 Ethyl Acetate	+++++	659	903	1723	3383	14253						
	32325	57395	84064	122455			LINR	-0.04263	0.11301		0.99854	
131 Methyl Acrylate	+++++	0.52487	0.44916	0.42748	0.38022	0.36989						
	0.39025	0.38709	0.38950	0.41089			AVRG		0.41437		11.66532	

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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							
132 n-Butanol	+++++	741	943	2050	4104	17102					
	46172	94987	152062	228205			QUAD	-0.03089	114	-24.70264	0.99995
133 Ethyl Acrylate	+++++	0.90774	0.68564	0.67145	0.70362	0.75109					
	0.81224	0.81376	0.83781	0.89525			AVRG		0.78651		11.20153
134 Cyclohexanone	+++++	1334	2164	3987	8867	37033					
	95172	194238	292482	422606			QUAD	-0.16976	39.96356	-1.61695	0.99975
135 1,4-Dioxane	515	604	731	1106	2383	8369					
	20352	38441	57382	87547			QUAD	-0.80372	284	-112	0.99895
136 n-Hexane	+++++	0.29666	0.21562	0.32791	0.37254	0.33859					
	0.34406	0.31350	0.33677	0.33975			AVRG		0.32060		13.90436
137 n-Pentane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
138 Freon TF	+++++	592	725	2577	7208	28842					
	69509	132225	202073	282375			LINR	-0.01056	0.26560		0.99990

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146 Methyl Acetate	+++++	+++++	1432	3673	7064	28405						
	69683	129001	195904	255797			LINR	-0.05181	0.24589		0.99745	
147 Methylcyclohexane	+++++	0.58596	0.42497	0.44588	0.47554	0.51979						
	0.55999	0.56048	0.58366	0.62207			AVRG		0.53093		12.89288	
149 Isopropyl alcohol	+++++	+++++	2486	5605	10801	48459						
	113863	219355	317765	469393			LINR	-0.30667	0.02168		0.99877	
152 Amyl alcohol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
150 Allyl alcohol	+++++	0.01483	0.01078	0.01640	0.01863	0.01693						
	0.01720	0.01567	0.01684	0.01699			AVRG		0.01603		13.90436	
151 4-Methyl-2-pentanol	+++++	0.08682	0.06209	0.06456	0.05740	0.06584						
	0.06694	0.06831	0.07196	0.07667			AVRG		0.06896		12.58033	
148 Tert-butyl alcohol	+++++	2276	3648	7130	14781	60372						
	146048	280071	431407	602022			LINR	-0.25166	0.02826		0.99997	

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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	+++++	928	1489	2804	5732	25476					
	64595	123190	175770	254790			LINR	-0.01980	0.23770		0.99893
140 1,3-Butadiene	+++++	0.39893	0.32375	0.47544	0.47320	0.44227					
	0.43968	0.43203	0.43772	0.44107			AVRG		0.42934		10.61380
141 Cyclohexane	+++++	+++++	5426	8326	15051	50211					
	121140	228460	361451	508774			LINR	-0.01930	0.47297		0.99960
142 Tetrahydrofuran	+++++	+++++	0.06112	0.05750	0.05222	0.05707					
	0.06391	0.06181	0.06088	+++++			AVRG		0.05922		6.59831
143 1-Chlorobutane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
144 Nitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
145 alpha-Methylstyrene	+++++	862	1345	3650	8044	36586					
	103865	219549	361012	520152			QUAD	0.01490	1.77376	-0.11604	0.99982

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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	+++++	1.56361	1.36433	1.30037	1.08410	1.10593						
	1.13758	1.08922	1.08687	1.12187			AVRG		1.20599		13.94677	
157 n-Heptane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
158 Dichlorofluoromethane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
159 Propylene oxide	+++++	+++++	+++++	+++++	0.02602	0.02063						
	0.02154	0.02347	0.02196	0.02344			AVRG		0.02284		8.34972	<-

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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	+++++	0.49508	0.41797	0.44253	0.38346	0.44281						
	0.45579	0.46277	0.50002	0.54184			AVRG		0.46025		10.24302	
163 Butyl methacrylate	+++++	1137	2158	3224	7663	41093						
	101877	177629	269158	390507			LINR	-0.01217	0.50073		0.99800	
164 Dicyclopentadiene	+++++	2.69821	2.10109	1.88718	2.08758	2.08457						
	2.14083	2.07475	2.11666	2.29267			AVRG		2.16484		10.39866	
165 4-Vinyl-1-cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
166 1,2,3-Trimethylbenzene	+++++	1.65561	1.46410	1.40878	1.18790	1.20526						
	1.40689	1.44792	1.49835	1.59565			AVRG		1.43005		10.90611	

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	50.0000 Level 7	100.0000 Level 8	150.0000 Level 9	200.0000 Level 10								
167 Ethanol	+++++ 22141	318 42645	748 62069	951 +++++	1968	9302	LINR	-0.47077	0.00413		0.99891	
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	+++++ 124383	1751 292643	2782 +++++	6189 +++++	11690	47930	QUAD	-0.02264	4.57018	-0.98482	0.99997	
173 3,3-Dimethyl-1-butanol	+++++ +++++	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
174 tert-Amyl methyl ether	+++++ +++++	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
175 tert-Butyl ethyl ether	+++++ +++++	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 20-JUN-2024 11:23
End Cal Date : 20-JUN-2024 14:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\8260C.m
Last Edit : 29-Jun-2024 12:29 VOA9.i

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	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
177 Dimethyl ether	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
178 Ethylene oxide	+++++	+++++	0.29972	0.38374	0.36716	0.36054						
	0.38450	0.43149	+++++	+++++			AVRG		0.37119		11.56120	<-
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	+++++	129	188	356	777	4024						
	12486	28979	52054	+++++			QUAD	0.09572	121	-266	0.99940	

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 20-JUN-2024 11:23
End Cal Date : 20-JUN-2024 14:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\8260C.m
Last Edit : 29-Jun-2024 12:29 VOA9.i

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	
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	+++++	0.08241	0.05480	0.07486	0.07798	0.07556	AVRG		0.07260		10.68768	
	0.07533	0.07257	0.07136	0.06850								
186 Isopentane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
187 n-Amyl acetate	+++++	0.43905	0.43948	0.46254	0.42619	0.44660	AVRG		0.44233		2.99556	
	0.44347	0.41993	0.44927	0.45447								
188 Isopropyl acetate	+++++	0.80434	0.60916	0.69340	0.61633	0.63034	AVRG		0.66860		8.90106	
	0.66114	0.65011	0.65337	0.69917								

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 20-JUN-2024 11:23
End Cal Date : 20-JUN-2024 14:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\8260C.m
Last Edit : 29-Jun-2024 12:29 VOA9.i

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	+++++	0.40550	0.33270	0.41884	0.38090	0.40116						
	0.41112	0.40136	0.41110	0.42517			AVRG		0.39865		6.95332	
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	+++++	+++++	+++++	0.07989	0.09885	0.08465						
	0.08399	0.07810	0.07761	0.08198			AVRG		0.08358		8.68587	<-
195 Methyl Amyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-

Report Date : 29-Jun-2024 12:53 Page 23

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 20-JUN-2024 11:23
End Cal Date : 20-JUN-2024 14:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\8260C.m
Last Edit : 29-Jun-2024 12:29 VOA9.i

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	
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	+++++	387	761	1413	3175	17763	QUAD	0.02533	6.02385	-4.21586	0.99827	
	62950	167585	+++++	+++++								
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 : 20-JUN-2024 11:23
End Cal Date : 20-JUN-2024 14:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\8260C.m
Last Edit : 29-Jun-2024 12:29 VOA9.i

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	+++++ / 41377	+++++ / 81097	329 / 128344	1008 / 182427	3625	16468	LINR	0.02623	0.17120		0.99961	<-
203 2-Ethylhexyl Acrylate	+++++ / 98009	1065 / 219028	1803 / 363161	3095 / +++++	5299	29847	QUAD	0.02491	1.90238	-0.19922	0.99914	
204 Tetrahydrothiophene	+++++ / 0.28802	0.32826 / 0.27517	0.27891 / 0.27812	0.29024 / 0.29085	0.25006	0.27763	AVRG		0.28414		7.24640	
205 sec-Butyl Ether	+++++ / 0.52541	0.68311 / 0.51504	0.58265 / 0.53878	0.60919 / 0.55939	0.49421	0.52017	AVRG		0.55866		10.52442	
206 2-Chloropropene	+++++ / 0.52377	0.62206 / 0.52824	0.39077 / 0.53132	0.46011 / 0.53608	0.50276	0.52450	AVRG		0.51329		12.14400	
M 94 1,2-Dichloroethylene (total)	+++++ / 173558	2240 / 322965	3466 / 504973	8089 / 703478	17111	68918	QUAD	-0.01968	3.03055	-0.00150	0.99984	
M 95 Xylenes (total)	+++++ / 0.42191	0.37025 / 0.39638	0.28929 / 0.41369	0.35795 / 0.41330	0.35510	0.40106	AVRG		0.37988		11.06752	

Report Date : 29-Jun-2024 12:53 Page 25

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 20-JUN-2024 11:23
End Cal Date : 20-JUN-2024 14:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\8260C.m
Last Edit : 29-Jun-2024 12:29 VOA9.i

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							
$ 30 Dibromofluoromethane	+++++	+++++	0.28286	0.41382	0.33278	0.33129					
	0.33132	0.32267	0.31979	0.32246			AVRG		0.33212		11.05592
$ 35 1,2-Dichloroethane-d4	+++++	+++++	0.40194	0.53289	0.43931	0.42174					
	0.41412	0.39711	0.39302	0.38875			AVRG		0.42361		11.14606
$ 48 Toluene-d8	+++++	+++++	+++++	1.16353	0.94334	0.95320					
	0.96473	0.92007	0.92943	0.91914			AVRG		0.97049		8.94340
$ 69 4-Bromofluorobenzene	+++++	+++++	0.46020	0.45626	0.36856	0.36092					
	0.36010	0.34894	0.34921	0.34633			AVRG		0.38132		12.60554

Report Date : 29-Jun-2024 12:53 Page 26

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 20-JUN-2024 11:23
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Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\8260C.m
Last Edit : 29-Jun-2024 12:29 VOA9.i

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Linear	Amt = b + Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

right solutions.
right partner.

Form 6I

Initial Calibration Verification (ICV)

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24060747

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

07/22/2024

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 18 24

Workorder HS24060747

RunID U62014.D

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix LIQUID
Lab Smp Id VSTD050
Data Type MS DATA
File ID U62014.D

Fraction VOA
Client Smp ID VSTD050
SampleType METHSPIKE
Inj Date 20-JUN-2024 1540

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
1,1,1,2-Tetrachloroethane	50.0	47.2	94.5	80-120	
1,1,1-Trichloroethane	50.0	49.0	98.1	80-120	
1,1,2,2-Tetrachloroethane	50.0	48.3	96.6	80-120	
Freon TF	50.0	45.2	90.4	80-120	
Methyl acetate	50.0	46.0	92.0	80-120	
Cyclohexane	50.0	46.3	92.6	80-120	
Methylcyclohexane	50.0	49.6	99.2	80-120	
Carbon Disulfide	100	92.1	92.1	80-120	
2-Hexanone	100	92.0	92.0	80-120	
1,1,2-Trichloroethane	50.0	45.3	90.6	80-120	
1,1-Dichloroethane	50.0	42.0	84.1	80-120	
1,1-Dichloroethene	50.0	43.6	87.2	80-120	
1,1-Dichloropropene	50.0	48.2	96.5	80-120	
1,2,3-Trichlorobenzene	50.0	47.8	95.6	80-120	
1,2,3-Trichloropropane	50.0	47.1	94.3	80-120	
1,2,4-Trichlorobenzene	50.0	47.8	95.6	80-120	
1,2,4-Trimethylbenzene	50.0	47.2	94.4	80-120	
1,2-Dibromo-3-Chloropropane	50.0	50.2	100	80-120	
1,2-Dibromoethane	50.0	47.3	94.6	80-120	
Acrolein	100	101	101	80-120	
Acrylonitrile	100	88.6	88.6	80-120	
1,2-Dichlorobenzene	50.0	44.4	88.8	80-120	
1,2-Dichloroethane	50.0	48.6	97.3	80-120	
1,2-Dichloropropane	50.0	44.9	89.8	80-120	
1,3,5-Trimethylbenzene	50.0	47.6	95.2	80-120	
1,3-Dichlorobenzene	50.0	44.7	89.4	80-120	
1,3-Dichloropropane	50.0	45.8	91.6	80-120	
1,4-Dichlorobenzene	50.0	48.6	97.2	80-120	
1-Chlorohexane	50.0	44.1	88.3	80-120	
2,2-Dichloropropane	50.0	44.4	88.8	80-120	
2-Butanone	100	94.9	94.9	80-120	
2-Chloroethylvinyl ether	100	118	118	80-120	
2-Chlorotoluene	50.0	46.4	92.7	80-120	
4-Chlorotoluene	50.0	48.3	96.5	80-120	

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP 18 24

Workorder HS24060747

RunID U62014.D

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix LIQUID
Lab Smp Id VSTD050
Data Type MS DATA
File ID U62014.D

Fraction VOA
Client Smp ID VSTD050
SampleType METHSPIKE
Inj Date 20-JUN-2024 1540

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
p-Isopropyltoluene	50.0	46.8	93.7	80-120	
4-Methyl-2-Pentanone	100	92.1	92.1	80-120	
Acetone	100	95.5	95.5	80-120	
Acetonitrile	500	446	89.2	80-120	
Allyl Chloride	50.0	44.4	88.9	80-120	
Benzene	50.0	44.5	89.0	80-120	
Bromobenzene	50.0	46.1	92.2	80-120	
Bromochloromethane	50.0	43.3	86.6	80-120	
Bromodichloromethane	50.0	48.0	96.0	80-120	
Bromoform	50.0	47.8	95.6	80-120	
Bromomethane	50.0	55.8	112	80-120	
Carbon Tetrachloride	50.0	49.3	98.6	80-120	
Chlorobenzene	50.0	48.7	97.4	80-120	
Chloroethane	50.0	46.7	93.3	80-120	
Chloroform	50.0	48.3	96.7	80-120	
Chloromethane	50.0	43.3	86.5	80-120	
Chloroprene	50.0	45.3	90.6	80-120	
cis-1,2-Dichloroethene	50.0	48.6	97.3	80-120	
cis-1,3-Dichloropropene	50.0	49.8	99.7	80-120	
Dibromochloromethane	50.0	52.7	105	80-120	
Dibromomethane	50.0	45.3	90.6	80-120	
Dichlorodifluoromethane	50.0	47.8	95.6	80-120	
Ethylbenzene	50.0	48.8	97.6	80-120	
Ethyl Methacrylate	50.0	46.8	93.7	80-120	
Iodomethane	100	119	119	80-120	
Isobutyl Alcohol	1000	922	92.2	70-130	
Propionitrile	500	480	96.1	70-130	
Hexachlorobutadiene	50.0	46.0	92.1	80-120	
Isopropylbenzene	50.0	51.2	102	80-120	
m,p-Xylenes	100	102	102	80-120	
Methyl tert-butyl ether	50.0	45.7	91.4	80-120	
Methylene Chloride	50.0	45.4	90.8	80-120	
Methacrylonitrile	50.0	48.0	96.1	80-120	
Methyl Methacrylate	50.0	44.4	88.8	80-120	

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP 18 24

Workorder HS24060747

RunID U62014.D

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix LIQUID
Lab Smp Id VSTD050
Data Type MS DATA
File ID U62014.D

Fraction VOA
Client Smp ID VSTD050
SampleType METHSPIKE
Inj Date 20-JUN-2024 1540

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
n-Butylbenzene	50.0	45.8	91.6	80-120	
n-Propylbenzene	50.0	52.0	104	80-120	
Naphthalene	50.0	45.7	91.3	80-120	
o-Xylene	50.0	50.7	101	80-120	
sec-Butylbenzene	50.0	51.3	103	80-120	
Styrene	50.0	51.9	104	80-120	
tert-Butylbenzene	50.0	52.1	104	80-120	
Tetrachloroethene	50.0	47.0	94.0	80-120	
Toluene	50.0	46.6	93.2	80-120	
trans-1,2-Dichloroethene	50.0	46.8	93.7	80-120	
trans-1,3-Dichloropropene	50.0	45.9	91.8	80-120	
trans-1,4-Dichloro-2-butene	50.0	45.7	91.4	80-120	
Trichloroethene	50.0	46.4	92.9	80-120	
Trichlorofluoromethane	50.0	46.5	93.1	80-120	
Vinyl Acetate	100	96.0	96.0	80-120	
Vinyl Chloride	50.0	46.0	92.1	80-120	
Methyl Acrylate	50.0	44.3	88.7	80-120	
Ethyl Acrylate	50.0	48.0	96.0	80-120	
Butyl acrylate	50.0	47.3	94.6	80-120	
2-Ethylhexyl Acrylate	50.0	47.0	93.9	80-120	
Allyl alcohol	1000	893	89.3	80-120	
1,2-Dichloroethylene (total)	100	95.6	95.6	80-120	
Xylenes (total)	150	153	102	80-120	
1,4-Dioxane	1000	936	93.6	80-120	
Dibromofluoromethane	50.0	47.4	94.8	71-125	
1,2-Dichloroethane-d4	50.0	45.3	90.7	70-125	
Toluene-d8	50.0	47.3	94.7	75-125	
4-Bromofluorobenzene	50.0	45.2	90.4	72-125	

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP 18 24

Workorder HS24060747

RunID X061513A.D

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix LIQUID
Lab Smp Id VSTD50
Data Type MS DATA
File ID X061513A.D

Fraction VOA
Client Smp ID VSTD050
SampleType METHSPIKE
Inj Date 15-JUN-2024 1835

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
1,1,1,2-Tetrachloroethane	50.0	45.3	90.6	80-120	
1,1,1-Trichloroethane	50.0	44.2	88.4	80-120	
1,1,2,2-Tetrachloroethane	50.0	47.9	95.8	80-120	
Freon TF	50.0	44.2	88.3	80-120	
Methyl acetate	50.0	43.2	86.5	80-120	
Cyclohexane	50.0	43.8	87.6	80-120	
Methylcyclohexane	50.0	45.2	90.5	80-120	
Carbon Disulfide	100	89.1	89.1	80-120	
2-Hexanone	100	99.3	99.3	80-120	
1,1,2-Trichloroethane	50.0	48.8	97.5	80-120	
1,1-Dichloroethane	50.0	42.8	85.6	80-120	
1,1-Dichloroethene	50.0	46.4	92.8	80-120	
1,1-Dichloropropene	50.0	44.4	88.8	80-120	
1,2,3-Trichlorobenzene	50.0	44.3	88.6	80-120	
1,2,3-Trichloropropane	50.0	46.6	93.3	80-120	
1,2,4-Trichlorobenzene	50.0	45.1	90.3	80-120	
1,2,4-Trimethylbenzene	50.0	45.7	91.4	80-120	
1,2-Dibromo-3-Chloropropane	50.0	45.1	90.1	80-120	
1,2-Dibromoethane	50.0	46.0	92.1	80-120	
Acrolein	100	98.5	98.5	80-120	
Acrylonitrile	100	97.7	97.7	80-120	
1,2-Dichlorobenzene	50.0	46.2	92.5	80-120	
1,2-Dichloroethane	50.0	45.4	90.7	80-120	
1,2-Dichloropropane	50.0	45.9	91.7	80-120	
1,3,5-Trimethylbenzene	50.0	44.8	89.6	80-120	
1,3-Dichlorobenzene	50.0	46.3	92.6	80-120	
1,3-Dichloropropane	50.0	47.2	94.5	80-120	
1,4-Dichlorobenzene	50.0	46.4	92.9	80-120	
1-Chlorohexane	50.0	45.8	91.5	80-120	
2,2-Dichloropropane	50.0	41.8	83.6	80-120	
2-Butanone	100	95.6	95.6	80-120	
2-Chloroethylvinyl ether	100	101	101	80-120	
2-Chlorotoluene	50.0	46.0	91.9	80-120	
4-Chlorotoluene	50.0	45.6	91.2	80-120	

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP 18 24

Workorder HS24060747

RunID X061513A.D

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix LIQUID
Lab Smp Id VSTD50
Data Type MS DATA
File ID X061513A.D

Fraction VOA
Client Smp ID VSTD050
SampleType METHSPIKE
Inj Date 15-JUN-2024 1835

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
p-Isopropyltoluene	50.0	45.3	90.6	80-120	
4-Methyl-2-Pentanone	100	96.9	96.9	80-120	
Acetone	100	96.7	96.8	80-120	
Acetonitrile	500	471	94.1	80-120	
Allyl Chloride	50.0	47.4	94.7	80-120	
Benzene	50.0	45.5	91.1	80-120	
Bromobenzene	50.0	46.2	92.4	80-120	
Bromochloromethane	50.0	47.1	94.1	80-120	
Bromodichloromethane	50.0	40.5	81.0	80-120	
Bromoform	50.0	45.1	90.1	80-120	
Bromomethane	50.0	46.2	92.4	80-120	
Carbon Tetrachloride	50.0	42.5	85.1	80-120	
Chlorobenzene	50.0	46.9	93.8	80-120	
Chloroethane	50.0	45.8	91.6	80-120	
Chloroform	50.0	45.9	91.8	80-120	
Chloromethane	50.0	44.4	88.7	80-120	
Chloroprene	50.0	44.3	88.5	80-120	
cis-1,2-Dichloroethene	50.0	46.5	93.0	80-120	
cis-1,3-Dichloropropene	50.0	43.0	86.0	80-120	
Dibromochloromethane	50.0	43.4	86.8	80-120	
Dibromomethane	50.0	46.0	92.0	80-120	
Dichlorodifluoromethane	50.0	42.7	85.4	80-120	
Ethylbenzene	50.0	46.3	92.6	80-120	
Ethyl Methacrylate	50.0	48.5	97.1	80-120	
Iodomethane	100	90.6	90.6	80-120	
Isobutyl Alcohol	1000	955	95.5	70-130	
Propionitrile	500	510	102	70-130	
Hexachlorobutadiene	50.0	45.4	90.7	80-120	
Isopropylbenzene	50.0	46.0	92.0	80-120	
m,p-Xylenes	100	93.2	93.2	80-120	
Methyl tert-butyl ether	50.0	45.8	91.7	80-120	
Methylene Chloride	50.0	46.2	92.4	80-120	
Methacrylonitrile	50.0	46.2	92.3	80-120	
Methyl Methacrylate	50.0	49.8	99.5	80-120	

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP 18 24

Workorder HS24060747

RunID X061513A.D

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix LIQUID
Lab Smp Id VSTD50
Data Type MS DATA
File ID X061513A.D

Fraction VOA
Client Smp ID VSTD050
SampleType METHSPIKE
Inj Date 15-JUN-2024 1835

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
n-Butylbenzene	50.0	45.2	90.3	80-120	
n-Propylbenzene	50.0	45.3	90.6	80-120	
Naphthalene	50.0	44.7	89.4	80-120	
o-Xylene	50.0	46.6	93.1	80-120	
sec-Butylbenzene	50.0	45.4	90.8	80-120	
Styrene	50.0	47.6	95.1	80-120	
tert-Butylbenzene	50.0	44.8	89.6	80-120	
Tetrachloroethene	50.0	46.3	92.6	80-120	
Toluene	50.0	46.8	93.7	80-120	
trans-1,2-Dichloroethene	50.0	45.6	91.1	80-120	
trans-1,3-Dichloropropene	50.0	43.0	86.0	80-120	
trans-1,4-Dichloro-2-butene	50.0	43.3	86.5	80-120	
Trichloroethene	50.0	45.4	90.9	80-120	
Trichlorofluoromethane	50.0	44.2	88.3	80-120	
Vinyl Acetate	100	93.6	93.6	80-120	
Vinyl Chloride	50.0	44.6	89.1	80-120	
1,2-Dichloroethylene (total)	100	92.0	92.0	80-120	
Xylenes (total)	150	140	93.2	80-120	
1,4-Dioxane	1000	1041	104	80-120	
Dibromofluoromethane	50.0	48.1	96.3	85-115	
1,2-Dichloroethane-d4	50.0	46.5	93.0	70-120	
Toluene-d8	50.0	48.8	97.5	85-115	
4-Bromofluorobenzene	50.0	49.0	97.9	75-120	

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Form 7

Continuing Calibration Verification (CCV)

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24060747

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

07/22/2024

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 18 24

Workorder HS24060747

RunID U62102.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U62102.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 21-JUN-2024 0946
ICAL Date(s) 20-JUN-2024, 20-JUN-2024
ICAL Times 11:23, 14:36
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	0.357	0.334	0.334	0.100	6.56	20.0	Averaged	
Chloromethane	50.0	42.0	0.662	0.100	16.0	20.0	Quadratic	
Propionitrile	500	482	0.045	0.010	3.65	20.0	Quadratic	
Vinyl Chloride	50.0	40.5	0.359	0.100	19.0	20.0	Linear	
Bromomethane	50.0	45.2	0.150	0.100	9.56	20.0	Quadratic	
Chloroethane	50.0	40.3	0.226	0.100	19.3	20.0	Quadratic	
Trichlorofluoromethane	0.479	0.433	0.433	0.100	9.64	20.0	Averaged	
Acrolein	100	88.6	0.014	0.010	11.4	20.0	Quadratic	
Acetone	100	82.4	0.107	0.100	17.6	20.0	Linear	
1,1-Dichloroethene	0.292	0.237	0.237	0.100	18.8	20.0	Averaged	
Isobutyl Alcohol	0.049	0.041	0.041	0.005	16.2	20.0	Averaged	
Acetonitrile	500	413	0.032	0.005	17.3	20.0	Linear	
Allyl Chloride	50.0	40.5	0.732	0.100	19.1	20.0	Quadratic	
Iodomethane	100	102	0.116	0.100	-1.569	20.0	Quadratic	
Acrylonitrile	100	80.9	0.099	0.050	19.1	20.0	Linear	
Methylene Chloride	50.0	41.4	0.293	0.100	17.3	20.0	Quadratic	
Methyl tert-butyl ether	50.0	43.8	0.752	0.100	12.5	20.0	Linear	
Carbon Disulfide	0.804	0.677	0.677	0.100	15.8	20.0	Averaged	
trans-1,2-Dichloroethene	50.0	43.2	0.264	0.100	13.7	20.0	Quadratic	
Vinyl Acetate	100	83.7	0.146	0.010	16.3	20.0	Linear	
1,1-Dichloroethane	50.0	40.2	0.467	0.200	19.7	20.0	Linear	
Chloroprene	50.0	40.6	0.403	0.100	18.9	20.0	Linear	
2-Butanone	100	82.2	0.142	0.100	17.8	20.0	Linear	
Methacrylonitrile	50.0	47.3	0.207	0.100	5.39	20.0	Quadratic	
2,2-Dichloropropane	50.0	45.2	0.416	0.100	9.67	20.0	Linear	
cis-1,2-Dichloroethene	50.0	43.4	0.314	0.100	13.3	20.0	Quadratic	
Chloroform	50.0	44.9	0.532	0.200	10.2	20.0	Linear	
Bromochloromethane	0.200	0.161	0.161	0.100	19.7	20.0	Averaged	
30 Dibromofluoromethane	0.332	0.370	0.370	0.100	-11.496	20.0	Averaged	
1,1,1-Trichloroethane	0.464	0.435	0.435	0.100	6.26	20.0	Averaged	
1,1-Dichloropropene	0.305	0.281	0.281	0.100	7.89	20.0	Averaged	
1,2-Dichloroethane	50.0	45.3	0.294	0.100	9.42	20.0	Linear	
Carbon Tetrachloride	0.256	0.248	0.248	0.100	2.96	20.0	Averaged	
35 1,2-Dichloroethane-d4	0.424	0.426	0.426	0.100	-0.554	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP 18 24

Workorder HS24060747

RunID U62102.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U62102.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 21-JUN-2024 0946
ICAL Date(s) 20-JUN-2024, 20-JUN-2024
ICAL Times 11:23, 14:36
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	1.03	0.863	0.863	0.500	16.2	20.0	Averaged	
Trichloroethene	0.250	0.222	0.222	0.200	11.2	20.0	Averaged	
Bromodichloromethane	0.291	0.264	0.264	0.200	9.29	20.0	Averaged	
Methyl Methacrylate	0.131	0.121	0.121	0.100	7.45	20.0	Averaged	
2-Chloroethylvinyl ether	100	83.5	0.006	0.001	16.5	20.0	Quadratic	
1,2-Dichloropropane	0.273	0.228	0.228	0.100	16.3	20.0	Averaged	
2-Nitropropane	0.079	0.077	0.077	0.000	2.13	20.0	Averaged	
Dibromomethane	0.159	0.134	0.134	0.100	15.9	20.0	Averaged	
4-Methyl-2-Pentanone	0.276	0.227	0.227	0.100	17.6	20.0	Averaged	
cis-1,3-Dichloropropene	0.340	0.314	0.314	0.200	7.61	20.0	Averaged	
48 Toluene-d8	0.970	1.12	1.12	0.100	-15.752	20.0	Averaged	
Ethyl Methacrylate	0.318	0.288	0.288	0.100	9.41	20.0	Averaged	
Toluene	1.14	1.02	1.02	0.400	10.3	20.0	Averaged	
trans-1,3-Dichloropropene	50.0	42.1	0.257	0.100	15.7	20.0	Linear	
2-Hexanone	100	92.9	0.172	0.100	7.11	20.0	Linear	
1,1,2-Trichloroethane	0.220	0.182	0.182	0.100	17.2	20.0	Averaged	
1,3-Dichloropropane	0.463	0.389	0.389	0.100	15.8	20.0	Averaged	
Dibromochloromethane	0.230	0.228	0.228	0.100	0.864	20.0	Averaged	
Tetrachloroethene	0.213	0.206	0.206	0.200	3.08	20.0	Averaged	
1,2-Dibromoethane	0.243	0.213	0.213	0.100	12.2	20.0	Averaged	
1-Chlorohexane	50.0	41.9	0.162	0.100	16.1	20.0	Linear	
Chlorobenzene	50.0	46.3	0.642	0.500	7.33	20.0	Linear	
1,1,1,2-Tetrachloroethane	0.245	0.222	0.222	0.100	9.18	20.0	Averaged	
Ethylbenzene	0.352	0.323	0.323	0.100	8.35	20.0	Averaged	
m,p-Xylenes	0.421	0.407	0.407	0.100	3.13	20.0	Averaged	
o-Xylene	0.415	0.405	0.405	0.300	2.24	20.0	Averaged	
Styrene	0.693	0.675	0.675	0.300	2.61	20.0	Averaged	
Bromoform	50.0	44.6	0.138	0.100	10.9	20.0	Quadratic	
Isopropylbenzene	1.03	1.02	1.02	0.100	1.21	20.0	Averaged	
1,1,2,2-Tetrachloroethane	50.0	43.0	0.531	0.300	14.0	20.0	Linear	
69 4-Bromofluorobenzene	0.381	0.410	0.410	0.100	-7.480	20.0	Averaged	
1,2,3-Trichloropropane	50.0	40.6	0.510	0.100	18.8	20.0	Linear	
trans-1,4-Dichloro-2-butene	0.070	0.057	0.057	0.050	18.6	20.0	Averaged	
n-Propylbenzene	2.16	2.03	2.03	0.100	6.14	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP 18 24

Workorder HS24060747

RunID U62102.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U62102.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 21-JUN-2024 0946
ICAL Date(s) 20-JUN-2024, 20-JUN-2024
ICAL Times 11:23, 14:36
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	0.587	0.506	0.506	0.100	13.8	20.0	Averaged	
1,3,5-Trimethylbenzene	50.0	44.3	1.45	0.100	11.4	20.0	Linear	
2-Chlorotoluene	1.46	1.28	1.28	0.100	12.8	20.0	Averaged	
4-Chlorotoluene	1.66	1.48	1.48	0.100	10.7	20.0	Averaged	
tert-Butylbenzene	1.32	1.27	1.27	0.100	3.43	20.0	Averaged	
1,2,4-Trimethylbenzene	1.59	1.38	1.38	0.100	13.4	20.0	Averaged	
sec-Butylbenzene	1.75	1.70	1.70	0.100	3.32	20.0	Averaged	
p-Isopropyltoluene	50.0	44.0	1.48	0.100	12.0	20.0	Linear	
1,3-Dichlorobenzene	1.08	0.897	0.897	0.600	17.0	20.0	Averaged	
1,4-Dichlorobenzene	50.0	45.6	0.945	0.400	8.78	20.0	Linear	
Benzyl Chloride	50.0	47.7	0.439	0.010	4.50	20.0	Linear	
n-Butylbenzene	50.0	43.4	1.30	0.500	13.3	20.0	Linear	
1,2-Dichlorobenzene	1.08	0.890	0.890	0.400	17.3	20.0	Averaged	
1,2-Dibromo-3-Chloropropane	50.0	44.0	0.067	0.050	12.1	20.0	Quadratic	
1,2,4-Trichlorobenzene	0.651	0.585	0.585	0.200	10.1	20.0	Averaged	
Hexachlorobutadiene	0.289	0.284	0.284	0.100	1.73	20.0	Averaged	
Naphthalene	50.0	40.1	1.21	0.200	19.8	20.0	Linear	
1,2,3-Trichlorobenzene	0.596	0.537	0.537	0.100	9.86	20.0	Averaged	
Methyl Acetate	50.0	40.2	0.210	0.100	19.6	20.0	Linear	
Freon TF	50.0	45.4	0.244	0.100	9.26	20.0	Linear	
Cyclohexane	50.0	43.5	0.420	0.100	13.0	20.0	Linear	
Tetrahydrofuran	0.059	0.055	0.055	0.001	6.51	20.0	Averaged	
Methylcyclohexane	0.531	0.536	0.536	0.100	-0.883	20.0	Averaged	
1,4-Dioxane	1000	936	0.004	0.001	6.36	20.0	Quadratic	
n-Butanol	1000	950	0.009	0.005	5.05	20.0	Quadratic	
n-Hexane	0.321	0.276	0.276	0.100	14.0	20.0	Averaged	
Diethyl ether	50.0	42.2	0.205	0.100	15.6	20.0	Linear	
Tert-butyl alcohol	1000	827	0.024	0.005	17.3	20.0	Linear	
Isopropyl alcohol	1000	802	0.018	0.005	19.8	20.0	Linear	
Diisopropyl ether	1.21	0.903	0.903	0.100	25.1	20.0	Averaged	*
Butyl acrylate	0.460	0.436	0.436	0.100	5.28	20.0	Averaged	
Dicyclopentadiene	2.16	1.95	1.95	0.100	9.72	20.0	Averaged	
1,2,3-Trimethylbenzene	1.43	1.34	1.34	0.100	6.02	20.0	Averaged	
Ethanol	1000	802	0.003	0.001	19.8	20.0	Linear	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP 18 24

Workorder HS24060747

RunID U62102.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U62102.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 21-JUN-2024 0946
ICAL Date(s) 20-JUN-2024, 20-JUN-2024
ICAL Times 11:23, 14:36
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	106	0.266	0.100	-6.408	20.0	Quadratic	
4-Methyl-2-pentanol	0.069	0.064	0.064	0.005	7.65	20.0	Averaged	
1,3-Butadiene	0.429	0.352	0.352	0.100	18.0	20.0	Averaged	
Epichlorohydrin	200	199	0.009	0.001	0.432	20.0	Quadratic	
94 1,2-Dichloroethylene (total	100	++++	0.289	0.200	++++	20.0	Quadratic	*
95 Xylenes (total)	0.380	0.371	0.371	0.100	2.30	20.0	Averaged	
alpha-Methylstyrene	50.0	44.6	0.512	0.100	10.7	20.0	Quadratic	
Ethyl Acetate	50.0	48.1	0.114	0.100	3.81	20.0	Linear	
Methyl Acrylate	0.414	0.360	0.360	0.100	13.0	20.0	Averaged	
n-Butyl acetate	0.399	0.327	0.327	0.100	18.1	20.0	Averaged	
Cyclohexanone	1000	812	0.021	0.005	18.8	20.0	Quadratic	
Isoprene	0.073	0.058	0.058	0.010	19.4	20.0	Averaged	
Isopropyl acetate	0.669	0.590	0.590	0.100	11.7	20.0	Averaged	
Allyl alcohol	0.016	0.014	0.014	0.004	14.0	20.0	Averaged	
Acetaldehyde	0.084	0.072	0.072	0.001	13.9	20.0	Averaged	
Dimethyl Disulfide	50.0	51.7	0.194	0.020	-3.406	20.0	Quadratic	
Isobutylene	50.0	40.8	0.135	0.010	18.4	20.0	Linear	
Ethyl Acrylate	0.787	0.751	0.751	0.100	4.51	20.0	Averaged	
Butyl methacrylate	50.0	49.1	0.498	0.100	1.78	20.0	Linear	
Propylene oxide	0.023	0.021	0.021	0.005	10.2	20.0	Averaged	
Ethylene oxide	0.371	0.267	0.267	0.010	28.0	20.0	Averaged	*
2-Ethylhexyl Acrylate	50.0	45.7	0.493	0.100	8.53	20.0	Quadratic	
Tetrahydrothiophene	0.284	0.269	0.269	0.100	5.21	20.0	Averaged	
sec-Butyl Ether	0.559	0.509	0.509	0.100	8.91	20.0	Averaged	
n-Amyl acetate	0.442	0.364	0.364	0.100	17.6	20.0	Averaged	
2-Chloropropene	0.513	0.411	0.411	0.100	19.9	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP 18 24

Workorder HS24060747

RunID U62142.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U62142.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 21-JUN-2024 2039
ICAL Date(s) 20-JUN-2024, 20-JUN-2024
ICAL Times 11:23, 14:36
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	0.357	0.318	0.318	0.100	10.9	50.0	Averaged	
Chloromethane	50.0	44.1	0.693	0.100	11.8	50.0	Quadratic	
Propionitrile	500	406	0.038	0.010	18.8	50.0	Quadratic	
Vinyl Chloride	50.0	38.4	0.340	0.100	23.2	50.0	Linear	
Bromomethane	50.0	40.1	0.133	0.100	19.8	50.0	Quadratic	
Chloroethane	50.0	36.5	0.206	0.100	26.9	50.0	Quadratic	
Trichlorofluoromethane	0.479	0.407	0.407	0.100	15.0	50.0	Averaged	
Acrolein	100	60.4	0.010	0.010	39.6	50.0	Quadratic	
Acetone	100	52.8	0.072	0.100	47.2	50.0	Linear	
1,1-Dichloroethene	0.292	0.227	0.227	0.100	22.3	50.0	Averaged	
Isobutyl Alcohol	0.049	0.036	0.036	0.005	26.4	50.0	Averaged	
Acetonitrile	500	337	0.026	0.005	32.6	50.0	Linear	
Allyl Chloride	50.0	32.7	0.594	0.100	34.6	50.0	Quadratic	
Iodomethane	100	61.8	0.068	0.100	38.2	50.0	Quadratic	
Acrylonitrile	100	66.1	0.081	0.050	33.9	50.0	Linear	
Methylene Chloride	50.0	38.7	0.275	0.100	22.6	50.0	Quadratic	
Methyl tert-butyl ether	50.0	37.4	0.641	0.100	25.2	50.0	Linear	
Carbon Disulfide	0.804	0.612	0.612	0.100	23.8	50.0	Averaged	
trans-1,2-Dichloroethene	50.0	40.5	0.248	0.100	18.9	50.0	Quadratic	
Vinyl Acetate	100	75.9	0.133	0.010	24.1	50.0	Linear	
1,1-Dichloroethane	50.0	37.4	0.435	0.200	25.1	50.0	Linear	
Chloroprene	50.0	36.6	0.364	0.100	26.8	50.0	Linear	
2-Butanone	100	71.6	0.124	0.100	28.4	50.0	Linear	
Methacrylonitrile	50.0	38.3	0.167	0.100	23.5	50.0	Quadratic	
2,2-Dichloropropane	50.0	38.9	0.357	0.100	22.2	50.0	Linear	
cis-1,2-Dichloroethene	50.0	43.8	0.317	0.100	12.5	50.0	Quadratic	
Chloroform	50.0	44.5	0.527	0.200	11.1	50.0	Linear	
Bromochloromethane	0.200	0.162	0.162	0.100	19.0	50.0	Averaged	
30 Dibromofluoromethane	0.332	0.352	0.352	0.100	-6.086	50.0	Averaged	
1,1,1-Trichloroethane	0.464	0.431	0.431	0.100	7.09	50.0	Averaged	
1,1-Dichloropropene	0.305	0.278	0.278	0.100	8.85	50.0	Averaged	
1,2-Dichloroethane	50.0	45.5	0.296	0.100	9.06	50.0	Linear	
Carbon Tetrachloride	0.256	0.253	0.253	0.100	1.05	50.0	Averaged	
35 1,2-Dichloroethane-d4	0.424	0.412	0.412	0.100	2.70	50.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP 18 24

Workorder HS24060747

RunID U62142.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U62142.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 21-JUN-2024 2039
ICAL Date(s) 20-JUN-2024, 20-JUN-2024
ICAL Times 11:23, 14:36
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	1.03	0.865	0.865	0.500	15.9	50.0	Averaged	
Trichloroethene	0.250	0.250	0.250	0.200	0.003	50.0	Averaged	
Bromodichloromethane	0.291	0.265	0.265	0.200	8.90	50.0	Averaged	
Methyl Methacrylate	0.131	0.098	0.098	0.100	24.9	50.0	Averaged	
2-Chloroethylvinyl ether	++++	++++	1.311e+64	0.001	++++	50.0	Quadratic	*
1,2-Dichloropropane	0.273	0.233	0.233	0.100	14.6	50.0	Averaged	
2-Nitropropane	0.079	0.063	0.063	0.000	20.9	50.0	Averaged	
Dibromomethane	0.159	0.134	0.134	0.100	15.7	50.0	Averaged	
4-Methyl-2-Pentanone	0.276	0.201	0.201	0.100	26.9	50.0	Averaged	
cis-1,3-Dichloropropene	0.340	0.306	0.306	0.200	9.82	50.0	Averaged	
48 Toluene-d8	0.970	1.08	1.08	0.100	-10.938	50.0	Averaged	
Ethyl Methacrylate	0.318	0.253	0.253	0.100	20.2	50.0	Averaged	
Toluene	1.14	0.993	0.993	0.400	12.8	50.0	Averaged	
trans-1,3-Dichloropropene	50.0	40.3	0.246	0.100	19.3	50.0	Linear	
2-Hexanone	100	73.1	0.136	0.100	26.9	50.0	Linear	
1,1,2-Trichloroethane	0.220	0.176	0.176	0.100	19.9	50.0	Averaged	
1,3-Dichloropropane	0.463	0.375	0.375	0.100	19.0	50.0	Averaged	
Dibromochloromethane	0.230	0.223	0.223	0.100	2.99	50.0	Averaged	
Tetrachloroethene	0.213	0.201	0.201	0.200	5.59	50.0	Averaged	
1,2-Dibromoethane	0.243	0.207	0.207	0.100	14.8	50.0	Averaged	
1-Chlorohexane	50.0	40.1	0.155	0.100	19.9	50.0	Linear	
Chlorobenzene	50.0	46.2	0.640	0.500	7.66	50.0	Linear	
1,1,1,2-Tetrachloroethane	0.245	0.223	0.223	0.100	8.90	50.0	Averaged	
Ethylbenzene	0.352	0.319	0.319	0.100	9.46	50.0	Averaged	
m,p-Xylenes	0.421	0.400	0.400	0.100	4.88	50.0	Averaged	
o-Xylene	0.415	0.394	0.394	0.300	4.88	50.0	Averaged	
Styrene	0.693	0.634	0.634	0.300	8.46	50.0	Averaged	
Bromoform	50.0	42.9	0.133	0.100	14.2	50.0	Quadratic	
Isopropylbenzene	1.03	0.993	0.993	0.100	3.45	50.0	Averaged	
1,1,2,2-Tetrachloroethane	50.0	38.6	0.477	0.300	22.9	50.0	Linear	
69 4-Bromofluorobenzene	0.381	0.404	0.404	0.100	-6.025	50.0	Averaged	
1,2,3-Trichloropropane	50.0	36.7	0.459	0.100	26.6	50.0	Linear	
trans-1,4-Dichloro-2-butene	0.070	0.044	0.044	0.050	36.6	50.0	Averaged	
n-Propylbenzene	2.16	1.88	1.88	0.100	12.9	50.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP 18 24

Workorder HS24060747

RunID U62142.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U62142.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 21-JUN-2024 2039
ICAL Date(s) 20-JUN-2024, 20-JUN-2024
ICAL Times 11:23, 14:36
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	0.587	0.489	0.489	0.100	16.7	50.0	Averaged	
1,3,5-Trimethylbenzene	50.0	40.0	1.31	0.100	19.9	50.0	Linear	
2-Chlorotoluene	1.46	1.20	1.20	0.100	17.8	50.0	Averaged	
4-Chlorotoluene	1.66	1.38	1.38	0.100	16.8	50.0	Averaged	
tert-Butylbenzene	1.32	1.23	1.23	0.100	6.57	50.0	Averaged	
1,2,4-Trimethylbenzene	1.59	1.20	1.20	0.100	24.3	50.0	Averaged	
sec-Butylbenzene	1.75	1.58	1.58	0.100	10.0	50.0	Averaged	
p-Isopropyltoluene	50.0	39.2	1.31	0.100	21.6	50.0	Linear	
1,3-Dichlorobenzene	1.08	0.870	0.870	0.600	19.5	50.0	Averaged	
1,4-Dichlorobenzene	50.0	43.6	0.905	0.400	12.7	50.0	Linear	
Benzyl Chloride	50.0	40.3	0.377	0.010	19.5	50.0	Linear	
n-Butylbenzene	50.0	38.5	1.15	0.500	23.0	50.0	Linear	
1,2-Dichlorobenzene	1.08	0.854	0.854	0.400	20.6	50.0	Averaged	
1,2-Dibromo-3-Chloropropane	50.0	38.9	0.059	0.050	22.2	50.0	Quadratic	
1,2,4-Trichlorobenzene	0.651	0.551	0.551	0.200	15.4	50.0	Averaged	
Hexachlorobutadiene	0.289	0.253	0.253	0.100	12.3	50.0	Averaged	
Naphthalene	50.0	36.7	1.10	0.200	26.6	50.0	Linear	
1,2,3-Trichlorobenzene	0.596	0.498	0.498	0.100	16.5	50.0	Averaged	
Methyl Acetate	50.0	31.2	0.166	0.100	37.5	50.0	Linear	
Freon TF	50.0	41.1	0.221	0.100	17.7	50.0	Linear	
Cyclohexane	50.0	41.6	0.403	0.100	16.8	50.0	Linear	
Tetrahydrofuran	0.059	0.047	0.047	0.001	20.9	50.0	Averaged	
Methylcyclohexane	0.531	0.475	0.475	0.100	10.5	50.0	Averaged	
1,4-Dioxane	1000	802	0.003	0.001	19.8	50.0	Quadratic	
n-Butanol	1000	761	0.007	0.005	23.9	50.0	Quadratic	
n-Hexane	0.321	0.228	0.228	0.100	28.9	50.0	Averaged	
Diethyl ether	50.0	35.8	0.175	0.100	28.4	50.0	Linear	
Tert-butyl alcohol	1000	639	0.018	0.005	36.1	50.0	Linear	
Isopropyl alcohol	1000	632	0.014	0.005	36.8	50.0	Linear	
Diisopropyl ether	1.21	0.765	0.765	0.100	36.6	50.0	Averaged	
Butyl acrylate	0.460	0.364	0.364	0.100	21.0	50.0	Averaged	
Dicyclopentadiene	2.16	1.72	1.72	0.100	20.4	50.0	Averaged	
1,2,3-Trimethylbenzene	1.43	1.12	1.12	0.100	21.7	50.0	Averaged	
Ethanol	1000	646	0.003	0.001	35.4	50.0	Linear	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP 18 24

Workorder HS24060747

RunID U62142.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U62142.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 21-JUN-2024 2039
ICAL Date(s) 20-JUN-2024, 20-JUN-2024
ICAL Times 11:23, 14:36
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	77.9	0.188	0.100	22.1	50.0	Quadratic	
4-Methyl-2-pentanol	0.069	0.052	0.052	0.005	24.7	50.0	Averaged	
1,3-Butadiene	0.429	0.328	0.328	0.100	23.5	50.0	Averaged	
Epichlorohydrin	200	166	0.007	0.001	16.9	50.0	Quadratic	
94 1,2-Dichloroethylene (total	100	++++	0.282	0.200	++++	50.0	Quadratic	*
95 Xylenes (total)	0.380	0.373	0.373	0.100	1.70	50.0	Averaged	
alpha-Methylstyrene	50.0	37.6	0.427	0.100	24.8	50.0	Quadratic	
Ethyl Acetate	++++	++++	1.311e+64	0.100	++++	50.0	Linear	*
Methyl Acrylate	0.414	0.307	0.307	0.100	26.0	50.0	Averaged	
n-Butyl acetate	0.399	0.292	0.292	0.100	26.6	50.0	Averaged	
Cyclohexanone	1000	448	0.012	0.005	55.2	50.0	Quadratic	*
Isoprene	0.073	0.049	0.049	0.010	32.2	50.0	Averaged	
Isopropyl acetate	0.669	0.530	0.530	0.100	20.7	50.0	Averaged	
Allyl alcohol	0.016	0.011	0.011	0.004	28.9	50.0	Averaged	
Acetaldehyde	0.084	0.120	0.120	0.001	-43.669	50.0	Averaged	
Dimethyl Disulfide	50.0	44.7	0.163	0.020	10.6	50.0	Quadratic	
Isobutylene	++++	++++	1.311e+64	0.010	++++	50.0	Linear	*
Ethyl Acrylate	0.787	0.655	0.655	0.100	16.8	50.0	Averaged	
Butyl methacrylate	50.0	41.4	0.421	0.100	17.1	50.0	Linear	
Propylene oxide	0.023	0.015	0.015	0.005	33.6	50.0	Averaged	
Ethylene oxide	0.371	++++	1.311e+64	0.010	++++	50.0	Averaged	*
2-Ethylhexyl Acrylate	50.0	38.6	0.411	0.100	22.7	50.0	Quadratic	
Tetrahydrothiophene	0.284	0.231	0.231	0.100	18.8	50.0	Averaged	
sec-Butyl Ether	0.559	0.254	0.254	0.100	54.5	50.0	Averaged	*
n-Amyl acetate	0.442	0.335	0.335	0.100	24.3	50.0	Averaged	
2-Chloropropene	0.513	0.480	0.480	0.100	6.54	50.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP 18 24

Workorder HS24060747

RunID X061541.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID voa7.i
Lab File ID X061541.D
Analysis Type WATER
Lab Sample ID VSTD50

Injection Date 16-JUN-2024 0516
ICAL Date(s) 12-JUN-2024, 15-JUN-2024
ICAL Times 11:43, 17:04
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	44.1	0.468	0.100	-11.843	50.0	Linear	
Dichlorofluoromethane	1.04	0.984	0.984	0.100	-5.456	50.0	Averaged	
Chloromethane	50.0	44.3	0.685	0.100	-11.384	50.0	Linear	
Propionitrile	500	434	0.059	0.010	-13.177	50.0	Linear	
Vinyl Chloride	50.0	44.4	0.627	0.100	-11.105	50.0	Linear	
Bromomethane	50.0	45.6	0.348	0.100	-8.729	50.0	Linear	
Chloroethane	50.0	45.0	0.386	0.100	-9.961	50.0	Linear	
Trichlorofluoromethane	50.0	45.2	0.826	0.100	-9.583	50.0	Linear	
Acrolein	0.014	0.014	0.014	0.010	2.60	50.0	Averaged	
Acetone	100	88.7	0.156	0.100	-11.261	50.0	Linear	
1,1-Dichloroethene	50.0	44.6	0.459	0.100	-10.806	50.0	Linear	
Isobutyl Alcohol	1000	869	0.072	0.005	-13.064	50.0	Linear	
Acetonitrile	500	498	0.077	0.010	-0.491	50.0	Linear	
Allyl Chloride	50.0	47.6	1.53	0.050	-4.817	50.0	Linear	
Iodomethane	100	85.5	0.555	0.100	-14.529	50.0	Linear	
Acrylonitrile	100	91.4	0.161	0.050	-8.557	50.0	Linear	
Methylene Chloride	50.0	44.7	0.530	0.100	-10.651	50.0	Linear	
Methyl tert-butyl ether	50.0	44.7	1.27	0.100	-10.555	50.0	Linear	
Carbon Disulfide	100	86.5	1.37	0.100	-13.544	50.0	Linear	
trans-1,2-Dichloroethene	50.0	43.9	0.469	0.100	-12.220	50.0	Linear	
Vinyl Acetate	100	78.6	0.224	0.100	-21.405	50.0	Linear	
1,1-Dichloroethane	1.18	0.989	0.989	0.200	-15.891	50.0	Averaged	
Chloroprene	50.0	43.2	0.807	0.050	-13.548	50.0	Linear	
2-Butanone	100	80.8	0.193	0.100	-19.161	50.0	Linear	
Methacrylonitrile	0.833	0.760	0.760	0.010	-8.852	50.0	Averaged	
2,2-Dichloropropane	0.998	0.775	0.775	0.100	-22.303	50.0	Averaged	
cis-1,2-Dichloroethene	50.0	44.5	0.532	0.100	-10.975	50.0	Linear	
Chloroform	50.0	45.4	0.967	0.200	-9.263	50.0	Linear	
Bromochloromethane	50.0	44.3	0.258	0.100	-11.357	50.0	Linear	
30 Dibromofluoromethane	50.0	59.2	0.628	0.100	18.3	50.0	Quadratic	
1,1,1-Trichloroethane	50.0	43.8	0.823	0.100	-12.314	50.0	Linear	
1,1-Dichloropropene	50.0	42.2	0.414	0.100	-15.556	50.0	Linear	
1,2-Dichloroethane	50.0	43.6	0.473	0.100	-12.829	50.0	Linear	
Carbon Tetrachloride	50.0	40.8	0.403	0.100	-18.313	50.0	Linear	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP 18 24

Workorder HS24060747

RunID X061541.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID voa7.i
Lab File ID X061541.D
Analysis Type WATER
Lab Sample ID VSTD50

Injection Date 16-JUN-2024 0516
ICAL Date(s) 12-JUN-2024, 15-JUN-2024
ICAL Times 11:43, 17:04
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	57.4	0.813	0.100	14.7	50.0	Quadratic	
Benzene	50.0	43.4	1.16	0.500	-13.262	50.0	Linear	
Trichloroethene	50.0	43.7	0.301	0.200	-12.519	50.0	Linear	
Bromodichloromethane	0.557	0.433	0.433	0.200	-22.293	50.0	Averaged	
Methyl Methacrylate	50.0	48.6	0.521	0.050	-2.717	50.0	Linear	
2-Chloroethylvinyl ether	100	89.3	0.121	0.050	-10.710	50.0	Quadratic	
1,2-Dichloropropane	50.0	42.5	0.326	0.100	-15.025	50.0	Linear	
2-Nitropropane	50.0	42.0	0.151	0.100	-15.929	50.0	Linear	
Dibromomethane	50.0	41.9	0.184	0.100	-16.187	50.0	Linear	
4-Methyl-2-Pentanone	100	80.8	0.304	0.100	-19.199	50.0	Linear	
cis-1,3-Dichloropropene	50.0	39.9	0.436	0.200	-20.239	50.0	Linear	
48 Toluene-d8	50.0	59.1	1.42	0.100	18.2	50.0	Quadratic	
Ethyl Methacrylate	50.0	35.7	0.310	0.010	-28.693	50.0	Quadratic	
Toluene	50.0	43.5	1.29	0.400	-12.997	50.0	Linear	
trans-1,3-Dichloropropene	50.0	39.9	0.436	0.100	-20.239	50.0	Linear	
2-Hexanone	100	79.7	0.203	0.100	-20.262	50.0	Linear	
1,1,2-Trichloroethane	50.0	43.8	0.244	0.100	-12.419	50.0	Linear	
1,3-Dichloropropane	50.0	43.0	0.514	0.100	-13.940	50.0	Linear	
Dibromochloromethane	0.410	0.324	0.324	0.100	-20.794	50.0	Averaged	
Tetrachloroethene	50.0	43.5	0.247	0.100	-12.925	50.0	Linear	
1,2-Dibromoethane	50.0	42.2	0.249	0.100	-15.686	50.0	Linear	
1-Chlorohexane	50.0	40.7	0.284	0.100	-18.513	50.0	Linear	
Chlorobenzene	50.0	43.5	0.842	0.500	-12.984	50.0	Linear	
1,1,1,2-Tetrachloroethane	50.0	42.4	0.293	0.100	-15.298	50.0	Linear	
Ethylbenzene	50.0	42.9	0.429	0.100	-14.170	50.0	Linear	
m,p-Xylenes	100	86.6	0.542	0.100	-13.403	50.0	Linear	
o-Xylene	50.0	43.8	0.530	0.300	-12.321	50.0	Linear	
Styrene	50.0	44.2	0.944	0.300	-11.696	50.0	Linear	
Bromoform	0.258	0.205	0.205	0.100	-20.550	50.0	Averaged	
Isopropylbenzene	50.0	43.7	1.37	0.100	-12.561	50.0	Linear	
1,1,2,2-Tetrachloroethane	50.0	38.9	0.652	0.300	-22.276	50.0	Linear	
69 4-Bromofluorobenzene	50.0	54.3	0.524	0.100	8.59	50.0	Quadratic	
1,2,3-Trichloropropane	50.0	38.4	0.731	0.100	-23.244	50.0	Linear	
trans-1,4-Dichloro-2-butene	50.0	35.6	0.077	0.050	-28.825	50.0	Linear	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP 18 24

Workorder HS24060747

RunID X061541.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID voa7.i
Lab File ID X061541.D
Analysis Type WATER
Lab Sample ID VSTD50

Injection Date 16-JUN-2024 0516
ICAL Date(s) 12-JUN-2024, 15-JUN-2024
ICAL Times 11:43, 17:04
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	40.9	3.05	0.100	-18.254	50.0	Linear	
Bromobenzene	50.0	42.1	0.684	0.100	-15.829	50.0	Linear	
1,3,5-Trimethylbenzene	50.0	41.3	2.21	0.100	-17.467	50.0	Linear	
2-Chlorotoluene	50.0	41.7	1.89	0.100	-16.541	50.0	Linear	
4-Chlorotoluene	50.0	42.0	2.26	0.100	-15.901	50.0	Linear	
tert-Butylbenzene	50.0	42.2	1.86	0.100	-15.538	50.0	Linear	
1,2,4-Trimethylbenzene	50.0	42.0	2.23	0.100	-16.066	50.0	Linear	
sec-Butylbenzene	50.0	41.9	2.55	0.100	-16.206	50.0	Linear	
p-Isopropyltoluene	50.0	41.6	2.28	0.100	-16.858	50.0	Linear	
1,3-Dichlorobenzene	50.0	41.5	1.24	0.600	-17.097	50.0	Linear	
1,4-Dichlorobenzene	50.0	41.9	1.28	0.400	-16.229	50.0	Linear	
n-Butylbenzene	50.0	40.4	2.08	0.050	-19.102	50.0	Linear	
1,2-Dichlorobenzene	50.0	41.8	1.20	0.400	-16.436	50.0	Linear	
1,2-Dibromo-3-Chloropropane	0.148	0.105	0.105	0.050	-28.808	50.0	Averaged	
1,2,4-Trichlorobenzene	50.0	36.9	0.696	0.200	-26.210	50.0	Linear	
Hexachlorobutadiene	50.0	39.1	0.354	0.100	-21.711	50.0	Linear	
Naphthalene	2.14	1.45	1.45	0.200	-32.174	50.0	Averaged	
1,2,3-Trichlorobenzene	0.781	0.545	0.545	0.100	-30.185	50.0	Averaged	
1,4-Dioxane	1000	879	0.004	0.001	-12.119	50.0	Linear	
Methyl Acetate	++++	++++	3.532e+56	0.100	++++	50.0	Linear	*
Freon TF	50.0	42.8	0.436	0.100	-14.337	50.0	Linear	
Diethyl ether	0.365	0.349	0.349	0.050	-4.190	50.0	Averaged	
1,3-Butadiene	50.0	43.9	0.283	0.050	-12.241	50.0	Linear	
Cyclohexane	50.0	42.8	0.762	0.100	-14.483	50.0	Linear	
Methylcyclohexane	50.0	41.7	0.412	0.100	-16.687	50.0	Linear	
n-Butanol	0.016	0.015	0.015	0.001	-8.155	50.0	Averaged	
Methyl Acrylate	50.0	46.0	0.506	0.100	-8.028	50.0	Linear	
Ethyl Acrylate	1.41	0.575	0.575	0.100	-59.157	50.0	Averaged	
n-Hexane	50.0	39.1	0.498	0.100	-21.740	50.0	Linear	
Tetrahydrofuran	100	93.1	0.087	0.050	-6.869	50.0	Linear	
Tert-butyl alcohol	0.037	0.026	0.026	0.005	-29.998	50.0	Averaged	
Isopropyl alcohol	1000	859	0.022	0.005	-14.121	50.0	Linear	
4-Methyl-2-pentanol	1000	783	0.103	0.005	-21.731	50.0	Linear	
1,2,3-Trimethylbenzene	2.58	2.16	2.16	0.100	-16.100	50.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP 18 24

Workorder HS24060747

RunID X061541.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID voa7.i
Lab File ID X061541.D
Analysis Type WATER
Lab Sample ID VSTD50

Injection Date 16-JUN-2024 0516
ICAL Date(s) 12-JUN-2024, 15-JUN-2024
ICAL Times 11:43, 17:04
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Ethanol	1000	844	0.004	0.001	-15.581	50.0	Quadratic	
tert-Butyl formate	100	83.1	0.258	0.100	-16.923	50.0	Linear	
3,3-Dimethyl-1-butanol	1000	733	0.024	0.005	-26.657	50.0	Quadratic	
tert-Amyl methyl ether	50.0	45.8	1.40	0.050	-8.348	50.0	Linear	
tert-Butyl ethyl ether	1.70	1.55	1.55	0.100	-9.093	50.0	Averaged	
2-Methylnaphthalene	0.781	0.486	0.486	0.050	-37.735	50.0	Averaged	
Diisopropyl ether	1.99	1.86	1.86	0.050	-6.446	50.0	Averaged	
1-Methylnaphthalene	0.690	0.408	0.408	0.100	-40.843	50.0	Averaged	
Ethyl Acetate	50.0	38.9	2.70	0.010	-22.271	50.0	Linear	
tert-Amyl alcohol	1000	855	0.025	0.005	-14.538	50.0	Linear	
Epichlorohydrin	200	169	0.018	0.005	-15.334	50.0	Linear	
Butyl acrylate	50.0	45.2	0.768	0.100	-9.554	50.0	Linear	
Isobutylene	++++	++++	3.532e+56	0.100	++++	50.0	Linear	*
Isopropyl Acetate	50.0	42.2	0.850	0.100	-15.544	50.0	Linear	
n-Amyl acetate	50.0	38.2	0.626	0.100	-23.515	50.0	Linear	
Acetaldehyde	200	207	0.084	0.100	3.62	0.000e+000	Linear	<-
n-Butyl acetate	50.0	43.5	0.516	0.100	-13.100	50.0	Linear	
2-Etyhlhexyl Acrylate	50.0	30.4	0.358	0.100	-39.212	50.0	Quadratic	
Tetrahydrothiophene	50.0	45.8	0.362	0.100	-8.476	50.0	Linear	
sec-Butyl Ether	50.0	50.6	0.337	0.100	1.17	0.000e+000	Linear	*
Isoprene	50.0	54.4	0.167	0.100	8.87	50.0	Linear	
2-Chloropropene	0.860	0.760	0.760	0.100	-11.696	50.0	Averaged	
94 1,2-Dichloroethylene (total	100	++++	0.501	0.100	++++	50.0	Linear	*
95 Xylenes (total)	150	++++	0.498	0.100	++++	50.0	Linear	*

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Form 8

Internal Standard Area and RT Summary

<textMethods>

Workorder

HS24060747

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

07/22/2024

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 18 24

Workorder HS24060747

EPA SW8260

VOA7_469580		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)	X061513A.D	136227	#	5.13	#	227526	#	5.85	#	209133	#	8.47	#	109830	#	10.46	#
HS24060747-10	X061518.D	128772		5.13		215483		5.85		207879		8.47		106380		10.46	
VBLKW-240615	X061517.D	129701		5.13		216943		5.85		207060		8.47		106137		10.46	
VLCSDW-240615	X061515.D	134840		5.13		227658		5.85		207048		8.47		103396		10.46	
VLCSW-240615	X061514.D	144011		5.13		236601		5.85		214543		8.47		108099		10.46	
MS-ZZZZZZMS	X061522.D	129511		5.13		214351		5.85		199549		8.47		102881		10.46	
ZZZZZZMSD	X061523.D	127655		5.13		214775		5.85		199331		8.47		103987		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 18 24

Workorder HS24060747

EPA SW8260

VOA9_470169		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)	U62102.D	233200	#	4.82	#	326985	#	5.55	#	298373	#	8.19	#	168763	#	10.17	#
HS24060747-01	U62122.D	230336		4.81		331777		5.55		305416		8.19		166967		10.17	
HS24060747-02	U62123.D	225983		4.82		324870		5.55		297504		8.19		160605		10.17	
HS24060747-03	U62121.D	186968		4.81		266287		5.55		240462		8.19		126902		10.17	
HS24060747-04	U62124.D	232486		4.81		330546		5.55		301559		8.19		163698		10.17	
HS24060747-05	U62125.D	229937		4.82		325172		5.55		296733		8.19		158862		10.17	
HS24060747-06	U62126.D	230492		4.81		325634		5.55		298933		8.19		161723		10.17	
HS24060747-07	U62119.D	232387		4.82		333976		5.55		303319		8.19		162175		10.17	
HS24060747-08	U62116.D	223836		4.82		319389		5.55		288269		8.19		155581		10.17	
HS24060747-08MS	U62117.D	231811		4.81		327515		5.55		298467		8.19		170034		10.17	
HS24060747-08MSD	U62118.D	233942		4.82		331583		5.55		296863		8.19		167781		10.17	
HS24060747-09	U62120.D	232800		4.81		335325		5.55		309501		8.19		165657		10.17	
VBLKW-240621	U62106.D	231770		4.81		332936		5.55		298711		8.19		158104		10.17	
VLCSDW-240621	U62104.D	233940		4.82		327970		5.55		297960		8.19		169196		10.17	
VLCSW-240621	U62103.D	240309		4.81		337727		5.55		303393		8.19		167540		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

HS24060747

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

07/22/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

ALS Houston, US Date: 22-Jul-24

FORM 8 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc. Run ID:VOA7_469569

Project: LHAAP 18 24 Instrument:VOA7

WorkOrder: HS24060747 Start Date: 15-Jun-2024 End Date: 15-Jun-2024

Client Samp ID	Samp ID	D/F	Time	File ID
BFB	BFB	1	15-Jun-2024 13:38	X061501.D
VSTD00.5	VSTD00.5	1	15-Jun-2024 14:01	X061502.D
VSTD001	VSTD001	1	15-Jun-2024 14:24	X061503.D
VSTD002	VSTD002	1	15-Jun-2024 14:46	X061504.D
VSTD005	VSTD005	1	15-Jun-2024 15:09	X061505.D
VSTD010	VSTD010	1	15-Jun-2024 15:32	X061506.D
VSTD020	VSTD020	1	15-Jun-2024 15:55	X061507.D
VSTD050	VSTD050	1	15-Jun-2024 16:18	X061508.D
VSTD100	VSTD100	1	15-Jun-2024 16:41	X061509.D
VSTD200	VSTD200	1	15-Jun-2024 17:04	X061510.D
BFB	BFB	1	15-Jun-2024 17:50	X061512.D
VSTD50	VSTD50	1	15-Jun-2024 18:35	X061513A.D

ALS Houston, US

Date: 22-Jul-24

FORM 8 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060747

Run ID:VOA7_469580
Instrument:VOA7
Start Date: 15-Jun-2024 End Date: 16-Jun-2024

Client Samp ID	Samp ID	D/F	Time	File ID
BFB	BFB	1	15-Jun-2024 17:50	X061512.D
VSTD50	VSTD50	1	15-Jun-2024 18:35	X061513A.D
VLCSW-240615	VLCSW-240615	1	15-Jun-2024 18:58	X061514.D
VLCSDW-240615	VLCSDW-240615	1	15-Jun-2024 19:21	X061515.D
VBLKW-240615	VBLKW-240615	1	15-Jun-2024 20:07	X061517.D
Trip Blank	HS24060747-10	1	15-Jun-2024 20:30	X061518.D
ZZZZZZZZZZ	HS24060293-07	1	15-Jun-2024 20:53	X061519.D
ZZZZZZZZZZ	HS24060434-01	250	15-Jun-2024 21:15	X061520.D
ZZZZZZMS	HS24060434-01MS	250	15-Jun-2024 22:01	X061522.D
ZZZZZZMSD	HS24060434-01MSD	250	15-Jun-2024 22:24	X061523.D
ZZZZZZZZZZ	HS24060293-01	1	16-Jun-2024 00:19	X061528.D
ZZZZZZZZZZ	HS24060293-03	1	16-Jun-2024 00:41	X061529.D
ZZZZZZZZZZ	HS24060293-04	1	16-Jun-2024 01:04	X061530.D
ZZZZZZZZZZ	HS24060293-05	1	16-Jun-2024 01:27	X061531.D
ZZZZZZZZZZ	HS24060293-06	1	16-Jun-2024 01:50	X061532.D
ZZZZZZZZZZ	HS24060487-06	1	16-Jun-2024 02:13	X061533.D
ZZZZZZZZZZ	HS24060487-07	1	16-Jun-2024 02:36	X061534.D
ZZZZZZZZZZ	HS24060487-08	1	16-Jun-2024 02:59	X061535.D
ZZZZZZZZZZ	HS24060487-10	1	16-Jun-2024 03:22	X061536.D
ZZZZZZZZZZ	HS24060487-09	10	16-Jun-2024 03:45	X061537.D
ZZZZZZZZZZ	HS24060487-04	100	16-Jun-2024 04:08	X061538.D
ZZZZZZZZZZ	HS24060487-05	100	16-Jun-2024 04:30	X061539.D
VSTD50	VSTD50	1	16-Jun-2024 05:16	X061541.D

ALS Houston, US Date: 22-Jul-24

FORM 8 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc. Run ID:VOA9_470156
Project: LHAAP 18 24 Instrument:VOA9
WorkOrder: HS24060747 Start Date: 20-Jun-2024 End Date: 20-Jun-2024

Client Samp ID	Samp ID	D/F	Time	File ID
BFB	BFB	1	20-Jun-2024 11:02	U62001.D
VSTD00.25	VSTD00.25	1	20-Jun-2024 11:23	U62002.D
VSTD00.5	VSTD00.5	1	20-Jun-2024 11:44	U62003.D
VSTD001	VSTD001	1	20-Jun-2024 12:06	U62004.D
VSTD002	VSTD002	1	20-Jun-2024 12:27	U62005.D
VSTD005	VSTD005	1	20-Jun-2024 12:49	U62006.D
VSTD020	VSTD020	1	20-Jun-2024 13:10	U62007.D
VSTD050	VSTD050	1	20-Jun-2024 13:32	U62008.D
VSTD100	VSTD100	1	20-Jun-2024 13:53	U62009.D
VSTD150	VSTD150	1	20-Jun-2024 14:15	U62010.D
VSTD200	VSTD200	1	20-Jun-2024 14:36	U62011.D
BFB	BFB	1	20-Jun-2024 15:19	U62013.D
VSTD050	VSTD050	1	20-Jun-2024 15:40	U62014.D

ALS Houston, US

Date: 22-Jul-24

FORM 8 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060747

Run ID:VOA9_470169
Instrument:VOA9
Start Date: 21-Jun-2024 End Date: 21-Jun-2024

Client Samp ID	Samp ID	D/F	Time	File ID
BFB	BFB	1	21-Jun-2024 09:24	U62101.D
VSTD050	VSTD050	1	21-Jun-2024 09:46	U62102.D
VLCSW-240621	VLCSW-240621	1	21-Jun-2024 10:28	U62103.D
VLCSDW-240621	VLCSDW-240621	1	21-Jun-2024 10:50	U62104.D
VBLKW-240621	VBLKW-240621	1	21-Jun-2024 11:32	U62106.D
CO1_061024	HS24060747-08	1	21-Jun-2024 15:12	U62116.D
HS24060747-08MS	HS24060747-08MS	1	21-Jun-2024 15:34	U62117.D
HS24060747-08MSD	HS24060747-08MSD	1	21-Jun-2024 15:55	U62118.D
CO9_061024	HS24060747-07	1	21-Jun-2024 16:16	U62119.D
126_061024	HS24060747-09	1	21-Jun-2024 16:38	U62120.D
129_061024	HS24060747-03	10	21-Jun-2024 17:02	U62121.D
1824DPTMW05_061024	HS24060747-01	100	21-Jun-2024 17:23	U62122.D
1824DPTMW05_061024_a	HS24060747-02	100	21-Jun-2024 17:45	U62123.D
120_061024	HS24060747-04	100	21-Jun-2024 18:06	U62124.D
MW14_061024	HS24060747-05	500	21-Jun-2024 18:28	U62125.D
MW23_061024	HS24060747-06	100	21-Jun-2024 18:49	U62126.D
ZZZZZZZZZZ	HS24060694-01	1	21-Jun-2024 19:11	U62127.D
ZZZZZZZZZZ	HS24060694-02	1	21-Jun-2024 19:32	U62128.D
ZZZZZZZZZZ	HS24060694-03	1	21-Jun-2024 19:53	U62129.D
ZZZZZZZZZZ	HS24060694-04	1	21-Jun-2024 20:18	U62130.D
VSTD050	VSTD050	1	21-Jun-2024 20:39	U62142.D

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RawData

<textMethods>

Workorder

HS24060747

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

07/22/2024

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\P240615.b\X061501.D Page 1
Report Date: 17-Jun-2024 09:02

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa7.i\P240615.b\X061501.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 15-JUN-2024 13:38
Operator : AP Inst ID: voa7.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240615.b\bfb.m
Meth Date : 25-Mar-2024 14:28 apoluri Quant Type: ISTD
Cal Date : Cal File:
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: 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	
9.477	9.474	(0.000)	95	76904			0.00- 100.00	100.00
9.477	9.474	(0.000)	50	16296			15.00- 40.00	21.19
9.477	9.474	(0.000)	75	39440			30.00- 60.00	51.28
9.477	9.474	(0.000)	96	5265			5.00- 9.00	6.85
9.477	9.474	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
9.477	9.474	(0.000)	174	57840			50.00- 0.00	75.21
9.477	9.474	(0.000)	175	5116			5.00- 9.00	8.85
9.477	9.474	(0.000)	176	56520			95.00- 101.00	97.72
9.477	9.474	(0.000)	177	3307			5.00- 9.00	5.85

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	21.19
75	30.00 - 60.00% of mass 95	51.28
96	5.00 - 9.00% of mass 95	6.85
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	75.21
175	5.00 - 9.00% of mass 174	6.65 (8.85)
176	95.00 - 101.00% of mass 174	73.49 (97.72)
177	5.00 - 9.00% of mass 176	4.30 (5.85)

Data File: X061501.D
Spectrum: Scan 2764 (9.47)
Location of Maximum: 95.00
Number of points: 64

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.10	822	61.00	3589	81.90	382	128.00	262
37.00	3807	62.00	3616	86.20	181	129.20	152
38.00	3819	63.00	2606	87.00	3190	129.90	231
39.00	1207	64.00	279	87.90	2939	140.90	925
40.00	184	68.00	8099	90.90	318	142.90	685
44.00	576	69.00	8538	91.90	1888	154.80	210
45.10	673	70.00	597	93.00	3403	171.00	234
47.10	924	72.00	559	94.00	8681	171.70	153
48.00	376	73.00	2954	95.00	76904	173.90	57840
49.00	3279	74.00	13384	96.00	5265	175.00	5116
50.00	16296	75.00	39440	97.00	230	175.90	56520
51.00	5127	76.00	3056	103.80	277	176.90	3307
52.00	230	77.00	329	105.90	216	177.80	154
54.90	173	77.80	382	115.80	231		
56.00	1278	79.00	1997	116.90	398		
57.00	2436	79.90	538	117.80	265		
60.00	647	80.90	1671	118.80	346		

Data File: \\nahstws005\Target\chem\voa7.i\P240615.b\X061501.D Page 1

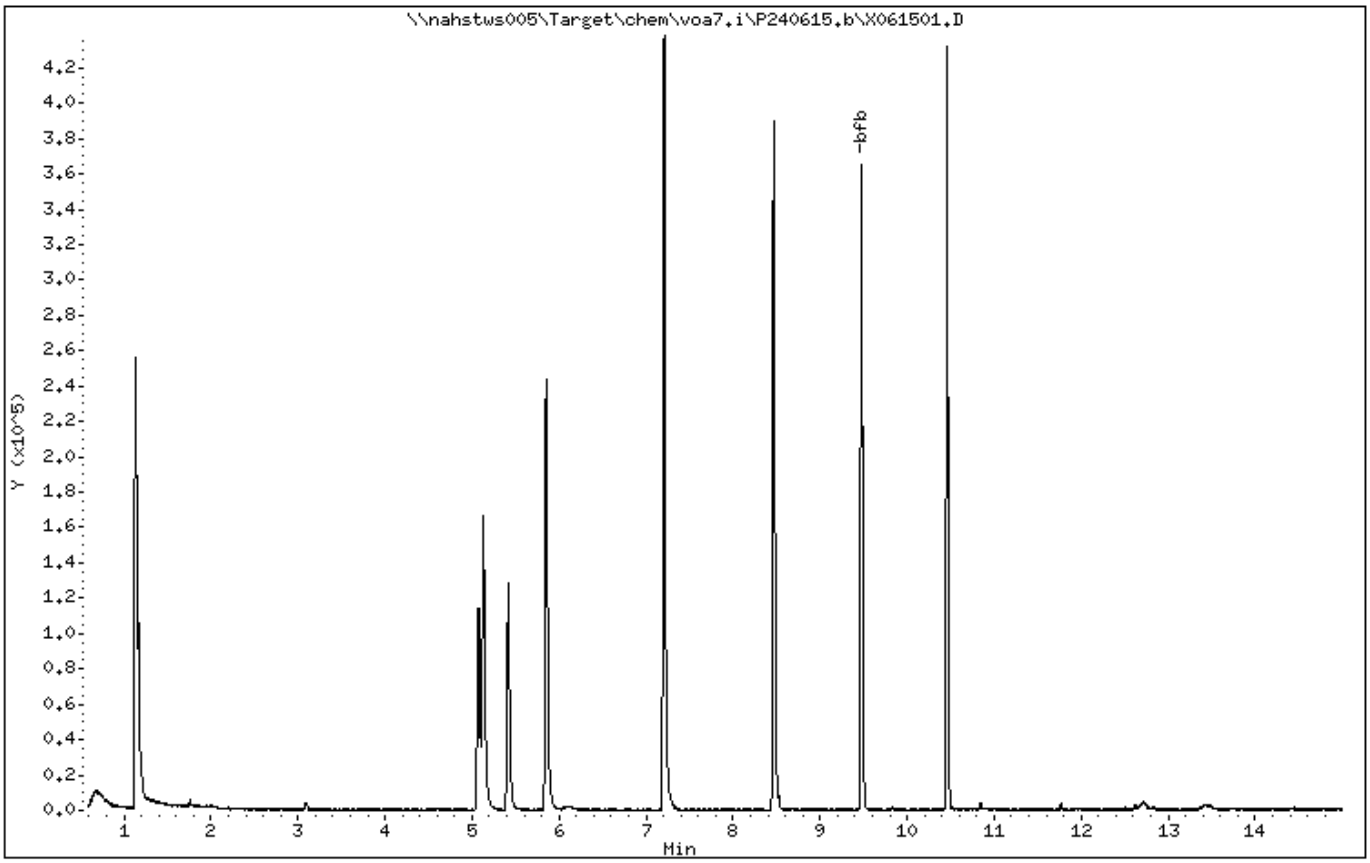
Date : 15-JUN-2024 13:38

Client ID: BFB Instrument: voa7.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: AP

Column phase: DB624 Column diameter: 0.25



Data File: \\nahstws005\Target\chem\voa7.i\P240615.b\X061501.D Page 2

Date : 15-JUN-2024 13:38

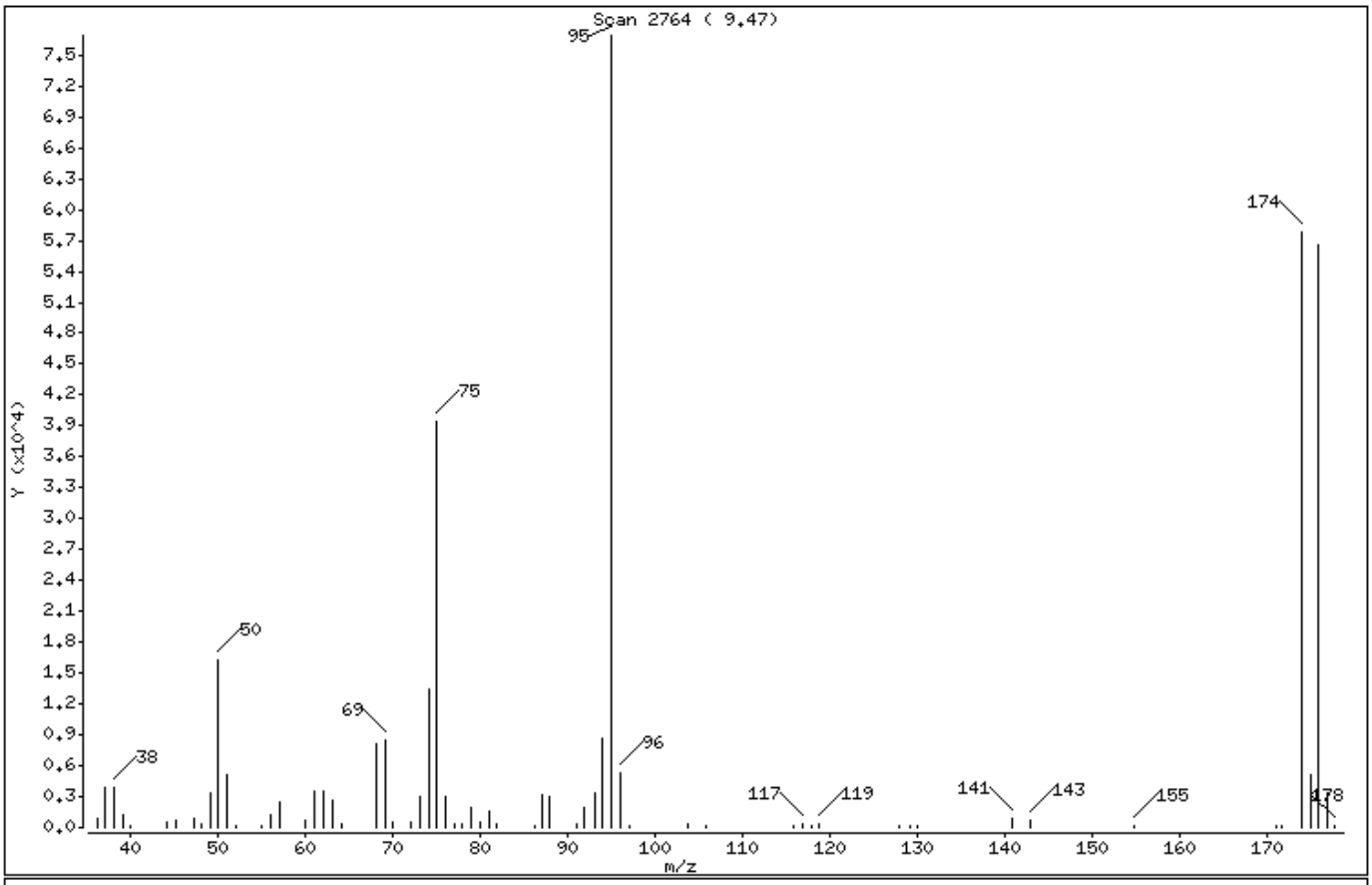
Client ID: BFB Instrument: voa7.i

Sample Info: BFB;BFB;3;;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	21.19
75	30.00 - 60.00% of mass 95	51.28
96	5.00 - 9.00% of mass 95	6.85
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	75.21
175	5.00 - 9.00% of mass 174	6.65 (8.85)
176	95.00 - 101.00% of mass 174	73.49 (97.72)
177	5.00 - 9.00% of mass 176	4.30 (5.85)

Data File: \\nahstws005\Target\chem\voa7.i\P240615.b\X061501.D Page 3

Date : 15-JUN-2024 13:38

Client ID: BFB Instrument: voa7.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: AP

Column phase: DB624 Column diameter: 0.25

Data File: X061501.D
Spectrum: Scan 2764 (9.47)
Location of Maximum: 95.00
Number of points: 64

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.10	822	61.00	3589	81.90	382	128.00	262
37.00	3807	62.00	3616	86.20	181	129.20	152
38.00	3819	63.00	2606	87.00	3190	129.90	231
39.00	1207	64.00	279	87.90	2939	140.90	925
40.00	184	68.00	8099	90.90	318	142.90	685
44.00	576	69.00	8538	91.90	1888	154.80	210
45.10	673	70.00	597	93.00	3403	171.00	234
47.10	924	72.00	559	94.00	8681	171.70	153
48.00	376	73.00	2954	95.00	76904	173.90	57840
49.00	3279	74.00	13384	96.00	5265	175.00	5116
50.00	16296	75.00	39440	97.00	230	175.90	56520
51.00	5127	76.00	3056	103.80	277	176.90	3307
52.00	230	77.00	329	105.90	216	177.80	154
54.90	173	77.80	382	115.80	231		
56.00	1278	79.00	1997	116.90	398		
57.00	2436	79.90	538	117.80	265		
60.00	647	80.90	1671	118.80	346		

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061502.D Page 1
Report Date: 12-Jul-2024 11:38

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061502.D
Lab Smp Id: VSTD00.5 Client Smp ID: VSTD00.5
Inj Date : 15-JUN-2024 14:01
Operator : AP Inst ID: voa7.i
Smp Info : VSTD00.5;VSTD00.5;1;1
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240615.b\8260W.m
Meth Date : 12-Jul-2024 11:38 voa7.i Quant Type: ISTD
Cal Date : 15-JUN-2024 14:01 Cal File: X061502.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

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)	125772	50.0000	
	159 Dichlorofluoromethane	67	2.072	2.072	(0.404)	2316	0.50000	0.88(aM)
	11 1,1-Dichloroethene	96	2.590	2.590	(0.505)	512	0.50000	0.55(aM)
	13 Acetonitrile	39	2.963	2.963	(0.577)	1925	5.00000	3.67(a)
	15 Iodomethane	142	2.747	2.747	(0.535)	618	1.00000	4.20(M)
	16 Acrylonitrile	53	3.381	3.381	(0.659)	729	1.00000	0.73(a)
	18 Methyl tert-butyl ether	73	3.377	3.377	(0.658)	3223	0.50000	1.18
	22 1,1-Dichloroethane	63	3.866	3.866	(0.753)	1523	0.50000	0.51(Ta)
	23 Chloroprene	53	3.969	3.969	(0.773)	1169	0.50000	0.46(aM)
	25 Methacrylonitrile	41	2.152	2.152	(0.419)	2105	0.50000	1.00(aM)
	26 2,2-Dichloropropane	77	4.528	4.528	(0.882)	1306	0.50000	0.52(aM)
$	30 Dibromofluoromethane	113	5.072	5.072	(0.988)	1850	0.50000	0.32(a)
	31 1,1,1-Trichloroethane	97	5.062	5.062	(0.986)	1107	0.50000	0.46(aM)
	32 1,1-Dichloropropene	75	5.242	5.242	(0.896)	1117	0.50000	0.68(a)
	34 Carbon Tetrachloride	117	5.233	5.233	(0.894)	1128	0.50000	1.47
$	35 1,2-Dichloroethane-d4	65	5.422	5.422	(1.056)	2602	0.50000	0.63(a)
*	36 1,4-Difluorobenzene	114	5.850	5.850	(1.000)	203911	50.0000	
	38 Trichloroethene	130	6.085	6.085	(1.040)	802	0.50000	0.42(a)
	39 Bromodichloromethane	83	6.570	6.570	(1.123)	1216	0.50000	0.53(aM)
	43 2-Nitropropane	43	6.805	6.805	(1.326)	450	0.50000	1.33(a)

44 Dibromomethane	93	6.413	6.413 (1.096)	452	0.50000	0.46(a)
46 cis-1,3-Dichloropropene	75	6.978	6.978 (1.193)	1394	0.50000	1.04

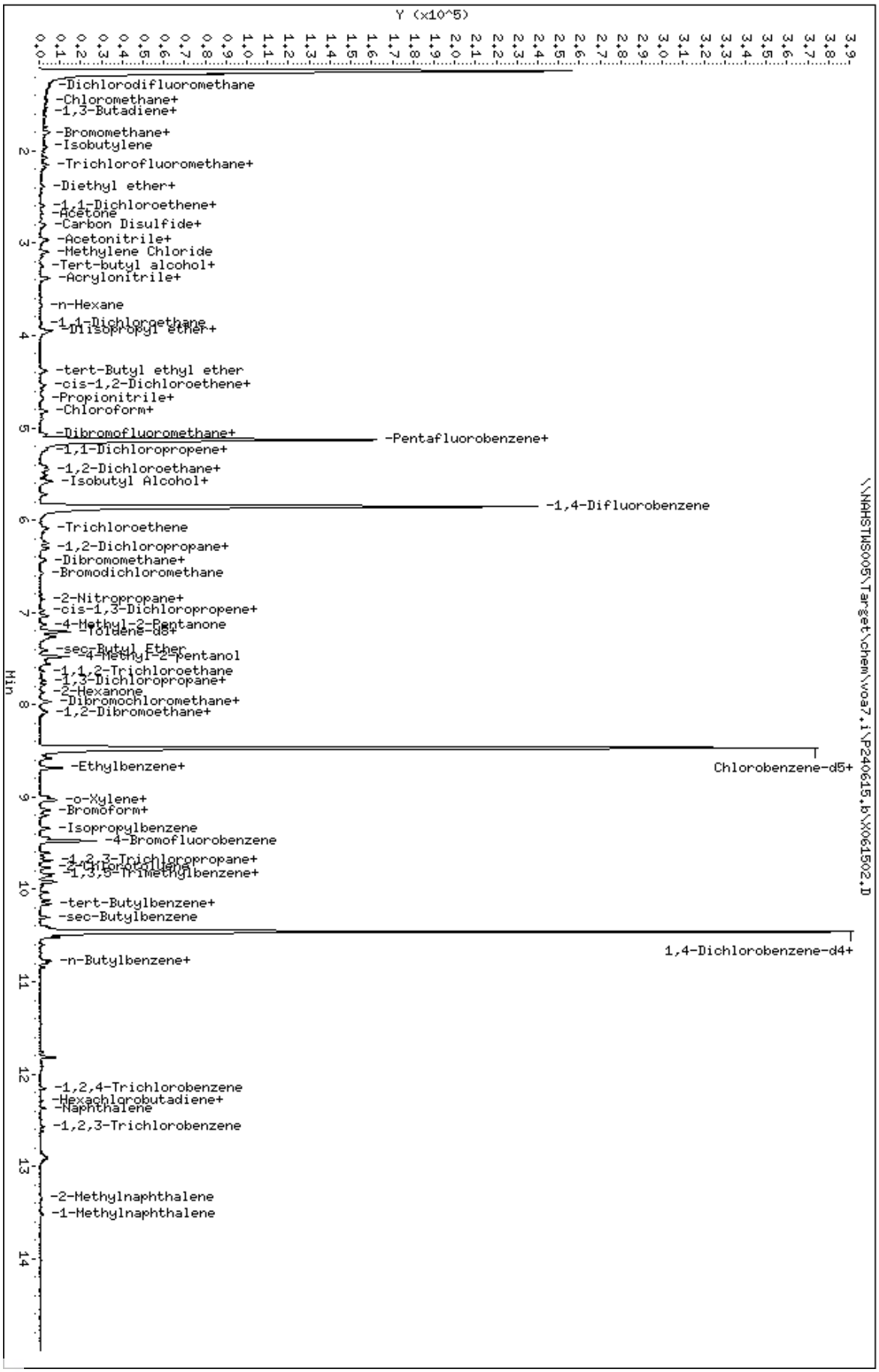
Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061502.D Page 2
Report Date: 12-Jul-2024 11:38

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	47 Chlorobenzene-d5	117	8.467	8.467	(1.000)	198233	50.0000	
$	48 Toluene-d8	98	7.207	7.207	(0.851)	9677	0.50000	0.65(a)
	49 Ethyl Methacrylate	69	8.104	8.104	(1.385)	1845	0.50000	1.10(M)
	51 trans-1,3-Dichloropropene	75	6.978	6.978	(1.193)	1394	0.50000	1.04
	55 Dibromochloromethane	129	7.972	7.972	(0.942)	799	0.50000	0.49(a)
	56 Tetrachloroethene	164	7.740	7.740	(0.914)	704	0.50000	0.54(a)
	60 1,1,1,2-Tetrachloroethane	131	8.560	8.560	(1.011)	736	0.50000	0.99(a)
	66 Bromoform	173	9.200	9.200	(1.087)	501	0.50000	0.48(Ta)
$	69 4-Bromofluorobenzene	95	9.474	9.474	(1.119)	8145	0.50000	2.44
*	70 1,4-Dichlorobenzene-d4	152	10.457	10.457	(1.000)	94056	50.0000	
	73 n-Propylbenzene	91	9.686	9.686	(0.926)	4037	0.50000	0.58(a)
	74 Bromobenzene	156	9.602	9.602	(0.918)	883	0.50000	0.37(a)
	75 1,3,5-Trimethylbenzene	105	9.840	9.840	(0.941)	3399	0.50000	0.87(a)
	77 4-Chlorotoluene	91	9.856	9.856	(0.943)	3264	0.50000	0.38(a)
	78 tert-Butylbenzene	119	10.120	10.120	(0.968)	2356	0.50000	0.32(a)
	79 1,2,4-Trimethylbenzene	105	10.152	10.152	(0.971)	3450	0.50000	0.55(a)
	81 sec-Butylbenzene	105	10.303	10.303	(0.985)	3154	0.50000	0.73(a)
	82 p-Isopropyltoluene	119	10.422	10.422	(0.997)	2821	0.50000	0.72(a)
	83 1,3-Dichlorobenzene	146	10.403	10.403	(0.995)	1745	0.50000	0.48(a)
	87 n-Butylbenzene	91	10.773	10.773	(1.030)	3261	0.50000	0.64(a)
	88 1,2-Dichlorobenzene	146	10.801	10.801	(1.033)	1679	0.50000	0.42(a)
	90 1,2,4-Trichlorobenzene	180	12.152	12.152	(1.162)	901	0.50000	1.31
	91 Hexachlorobutadiene	225	12.290	12.290	(1.175)	279	0.50000	1.04
	92 Naphthalene	128	12.371	12.371	(1.183)	2133	0.50000	0.52(a)
	135 1,4-Dioxane	88	6.451	6.451	(1.257)	203	10.0000	5.53(TM)
	146 Methyl acetate	43	2.821	2.821	(0.550)	388	0.50000	(TaM)
	138 Freon TF	101	2.590	2.590	(0.505)	380	0.50000	0.59(aM)
	139 Diethyl ether	59	2.387	2.387	(0.465)	682	0.50000	0.74(a)
	140 1,3-Butadiene	54	1.567	1.567	(0.305)	214	0.50000	0.99(a)
	141 Cyclohexane	56	5.123	5.123	(0.998)	3487	0.50000	0.92(aM)
	147 Methylcyclohexane	83	6.252	6.252	(1.069)	1404	0.50000	2.68
	133 Ethyl Acrylate	55	6.226	6.226	(1.213)	3293	0.50000	0.93(aM)
	136 n-Hexane	57	3.683	3.683	(0.718)	529	0.50000	1.05
	142 Tetrahydrofuran	42	4.869	4.869	(0.949)	337	1.00000	2.88(M)
	148 Tert-butyl alcohol	59	3.242	3.242	(0.632)	2017	10.0000	21.73
	151 4-Methyl-2-pentanol	45	7.477	7.477	(0.883)	8638	10.0000	10.37(a)
	166 1,2,3-Trimethylbenzene	105	10.519	10.519	(1.006)	4626	0.50000	0.95(a)
	173 3,3-Dimethyl-1-butanol	57	8.085	8.085	(0.955)	2542	10.0000	23.98
	175 tert-Butyl ethyl ether	59	4.377	4.377	(0.853)	3589	0.50000	0.83(a)
	156 Diisopropyl ether	45	3.943	3.943	(0.768)	4468	0.50000	0.89(Ta)
	130 Ethyl Acetate	43	3.946	3.946	(0.769)	6119	0.50000	0.83(aM)
	176 tert-Amyl alcohol	59	5.516	5.516	(1.075)	1914	10.0000	1.54(a)
	160 Epichlorohydrin	57	6.921	6.921	(1.183)	109	2.00000	2.56(aM)
	161 Butyl acrylate	55	9.001	9.001	(1.063)	3257	0.50000	1.21(a)
	182 Isobutylene	56	1.950	1.950	(0.380)	35	0.50000	1.30(aAM)
	183 Isopropyl Acetate	43	5.570	5.570	(0.952)	2765	0.50000	0.08(aAM)
	184 n-Amyl acetate	43	9.197	9.197	(1.086)	2202	0.50000	1.21(aAM)
	185 Acetaldehyde	44	1.638	1.638	(0.319)	418	2.00000	(aM)
	186 n-Butyl acetate	43	7.969	7.969	(0.941)	1945	0.50000	(TaM)
	187 2-Etyhlhexyl Acrylate	55	12.319	12.319	(1.178)	66	0.50000	3.52(aAM)
	188 Tetrahydrothiophene	60	7.956	7.956	(0.940)	1247	0.50000	0.63(TaAM)
	189 sec-Butyl Ether	57	7.400	7.400	(0.874)	1596	0.50000	(TaM)

190 Isoprene	39	2.403	2.403 (0.468)	34	0.50000	0.45(TaAM)
191 2-Chloropropene	41	2.152	2.152 (0.419)	2105	0.50000	0.97(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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Date : 15-JUN-2024 14:01
Client ID: VSTD00.5
Sample Info: VSTD00.5;VSTD00.5;1;1
Purge Volume: 5.0
Column phase: DB624

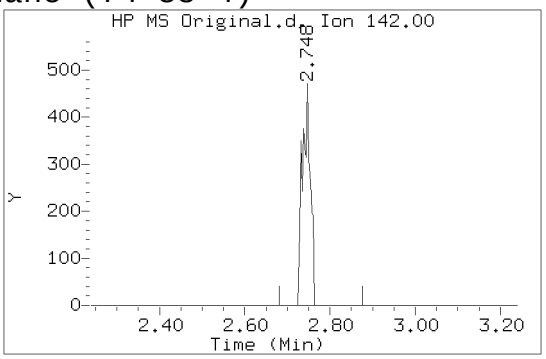
Instrument: voa7,i
Operator: AP
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061502.D
Inj Date : 15-JUN-2024 14:01
InstruID : voa7.i
LabSampID : VSTD00.5

Iodomethane (74-88-4)

Reason Code:

BEFORE
MASS
142
AREA
618
HEIGHT
471
12-Jul-2024
11:38
s
zaid



AFTER
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618
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471
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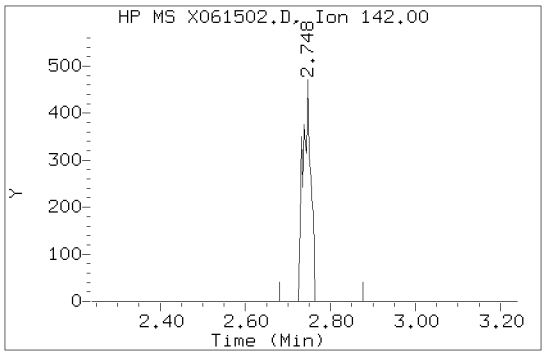

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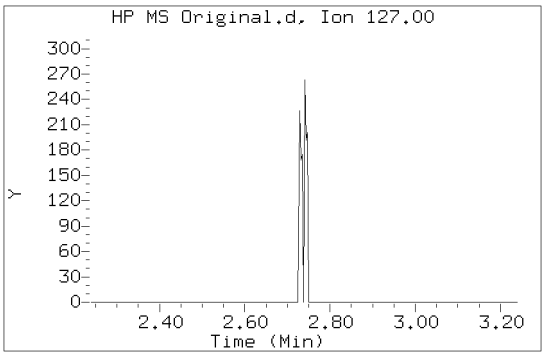

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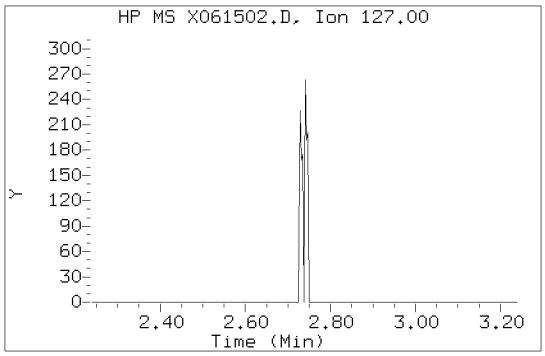

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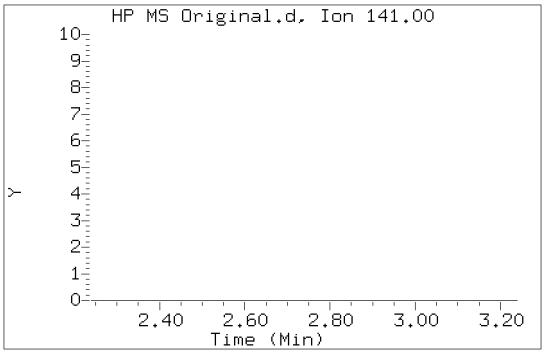

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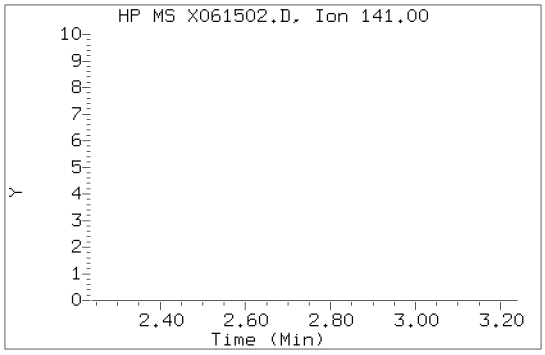

Chloroethane (75-00-3)

Reason Code:

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469
12-Jul-2024
11:38
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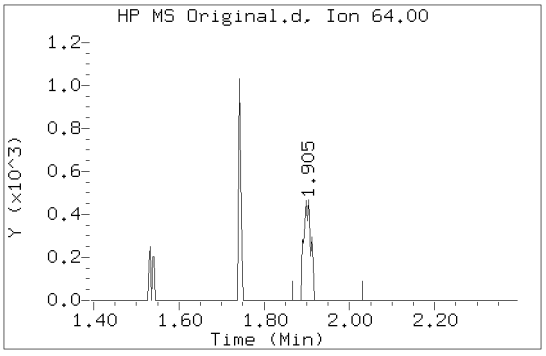
zaid



AFTER
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AREA
555
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12-Jul-2024
11:38
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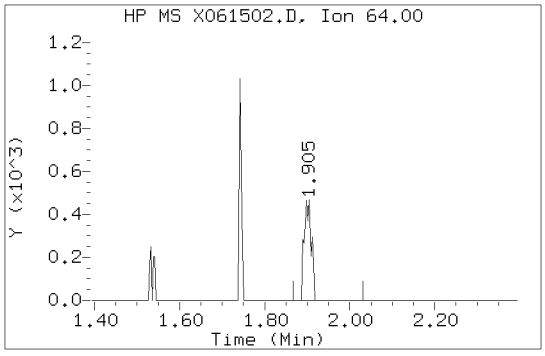

Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061502.D
Inj Date : 15-JUN-2024 14:01
InstruID : voa7.i
LabSampID : VSTD00.5

Chloroethane (75-00-3)

Reason Code:

BEFORE

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AREA
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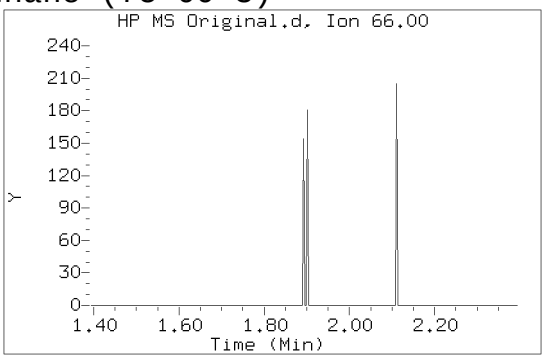
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
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AREA
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HEIGHT
0
12-Jul-2024
11:38
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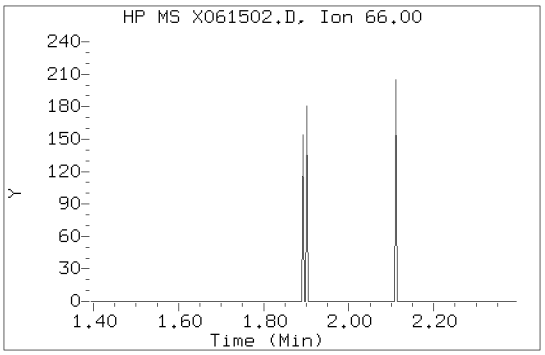

1,1-Dichloroethene (75-35-4)

Reason Code:

BEFORE

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AREA
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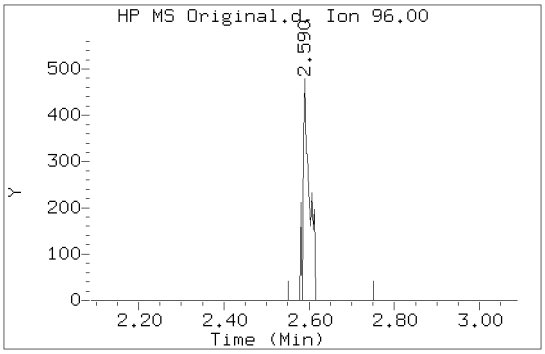
HEIGHT
479
12-Jul-2024
11:38
s
zaid



AFTER

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11:38
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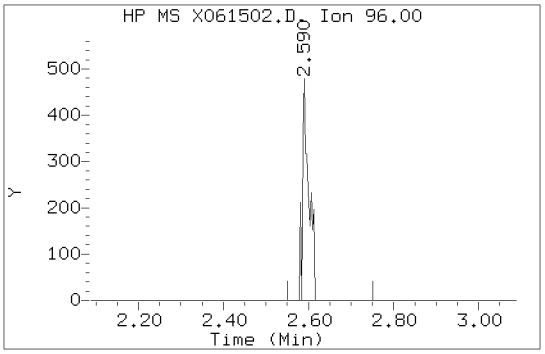

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12-Jul-2024
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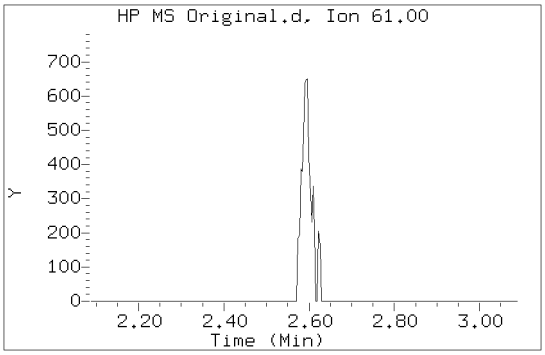

AFTER

MASS
61
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HEIGHT
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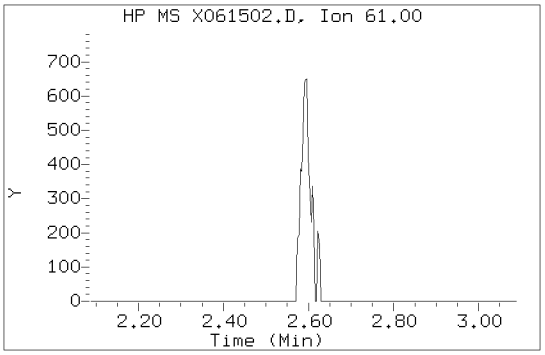
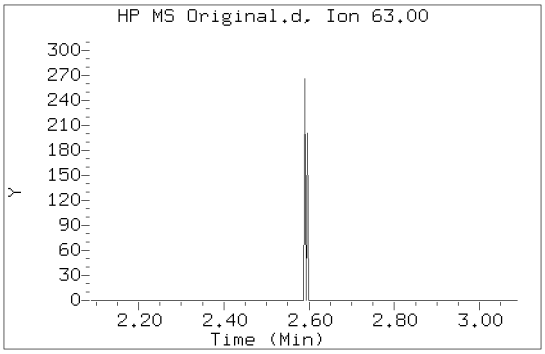
12-Jul-2024
11:38
s
zaid



BEFORE

MASS
63
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
63
AREA
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HEIGHT
0
12-Jul-2024
11:38
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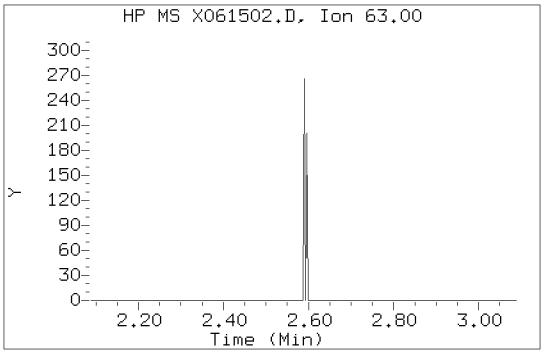
zaid



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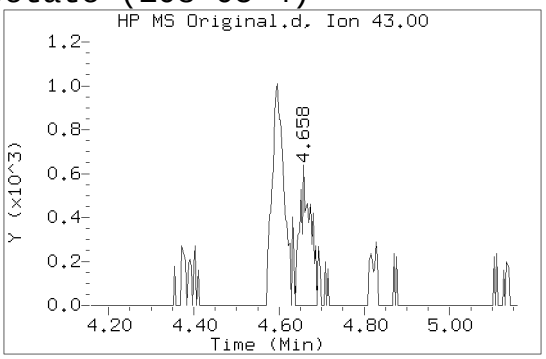
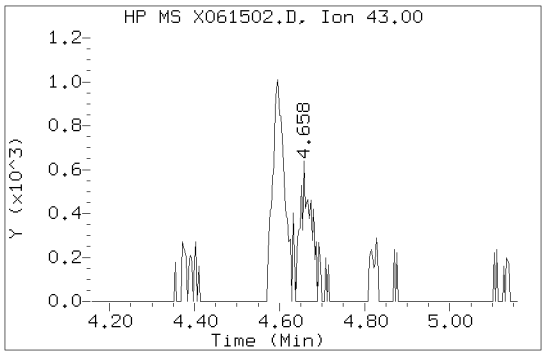
Inj Date : 15-JUN-2024 14:01
InstruID : voa7.i
LabSampID : VSTD00.5

Vinyl Acetate (108-05-4)

BEFORE
MASS
43
AREA
1101
HEIGHT
640
12-Jul-2024
11:38
s
zaid

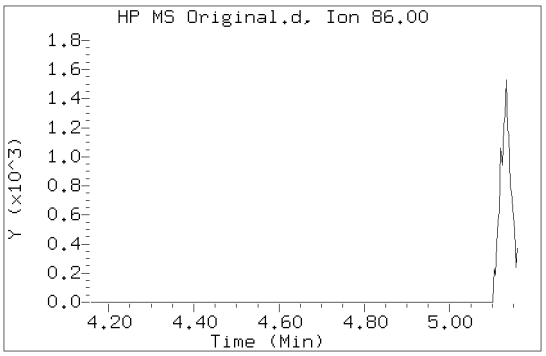


AFTER
MASS
43
AREA
1101
HEIGHT
640
12-Jul-2024
11:38
s
zaid

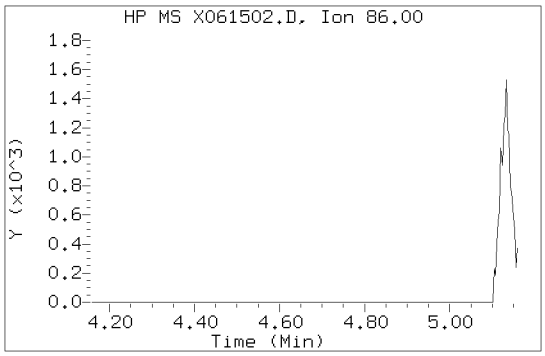


Reason Code:

BEFORE
MASS
86
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

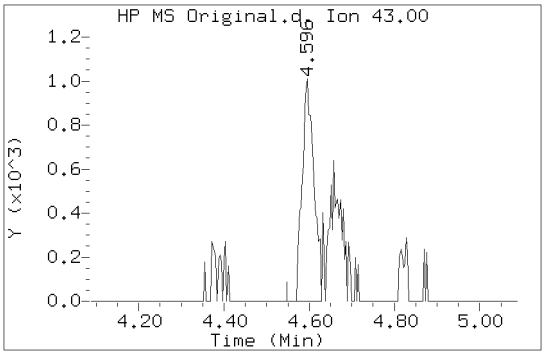


AFTER
MASS
86
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

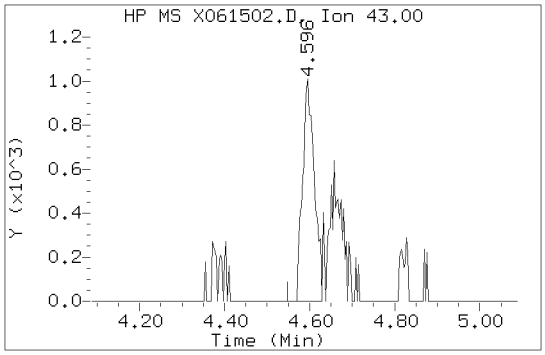


2-Butanone (78-93-3)

BEFORE
MASS
43
AREA
1922
HEIGHT
1010
12-Jul-2024
11:38
s
zaid

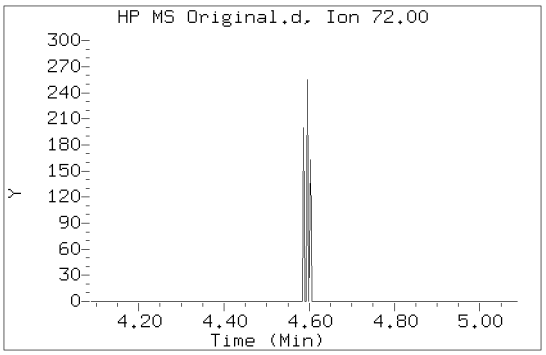


AFTER
MASS
43
AREA
1922
HEIGHT
1010
12-Jul-2024
11:38
s
zaid

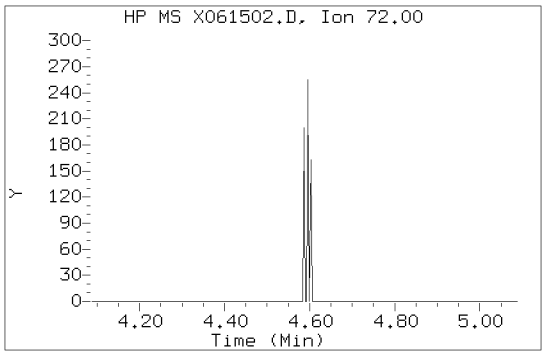


Reason Code:

BEFORE
MASS
72
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER
MASS
72
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



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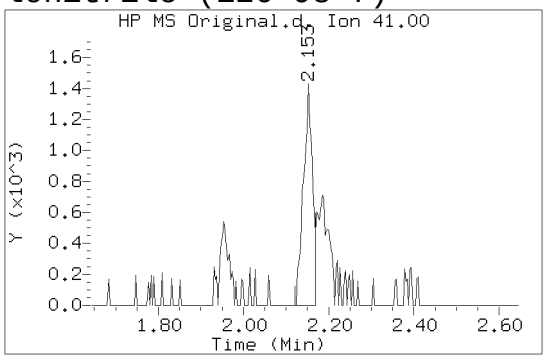
Inj Date : 15-JUN-2024 14:01
InstruID : voa7.i
LabSampID : VSTD00.5

Methacrylonitrile (126-98-7)

Reason Code:

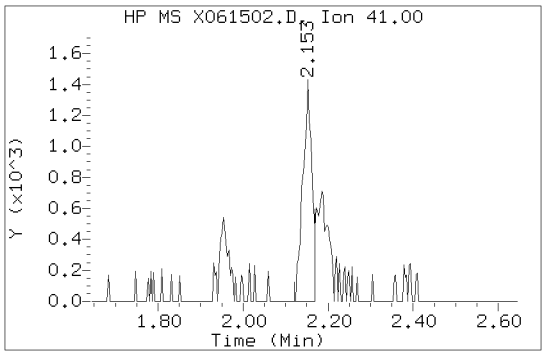
BEFORE

MASS
41
AREA
2105
HEIGHT
1431
12-Jul-2024
11:38
s
zaid



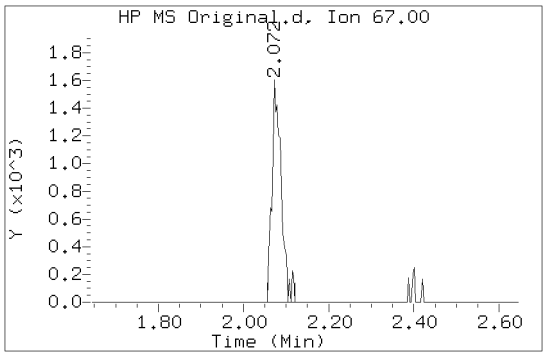
AFTER

MASS
41
AREA
2105
HEIGHT
1431
12-Jul-2024
11:38
s
zaid



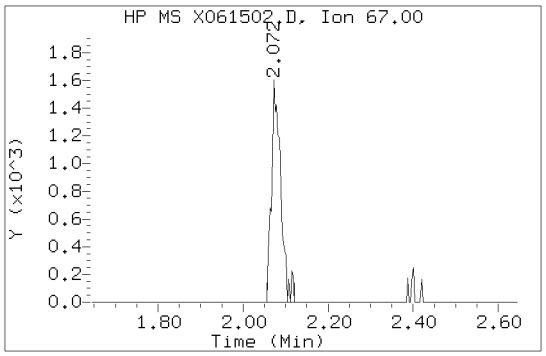
BEFORE

MASS
67
AREA
2428
HEIGHT
1604
12-Jul-2024
11:38
s
zaid



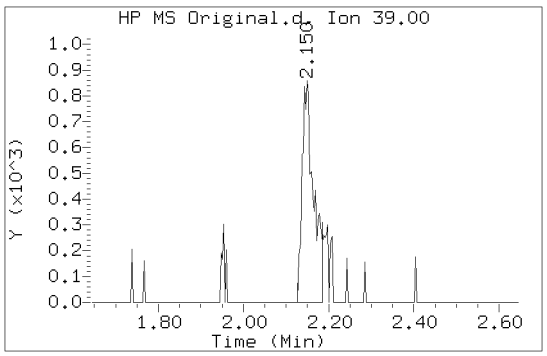
AFTER

MASS
67
AREA
2428
HEIGHT
1604
12-Jul-2024
11:38
s
zaid



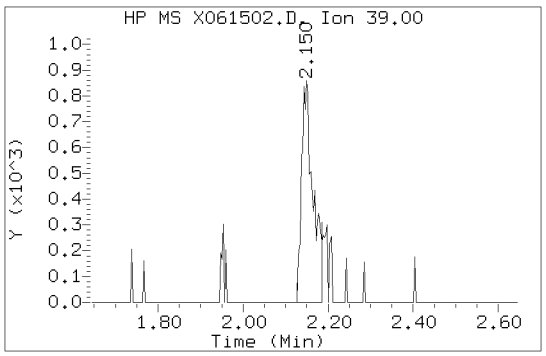
BEFORE

MASS
39
AREA
1624
HEIGHT
859
12-Jul-2024
11:38
s
zaid



AFTER

MASS
39
AREA
1624
HEIGHT
859
12-Jul-2024
11:38
s
zaid

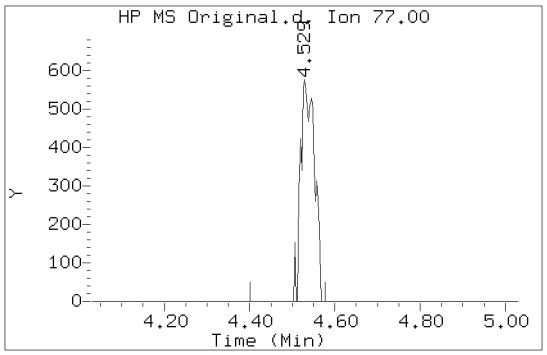


2,2-Dichloropropane (594-20-7)

Reason Code:

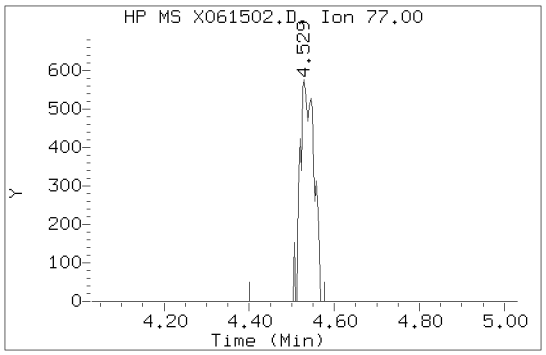
BEFORE

MASS
77
AREA
1306
HEIGHT
577
12-Jul-2024
11:38
s
zaid



AFTER

MASS
77
AREA
1306
HEIGHT
577
12-Jul-2024
11:38
s
zaid



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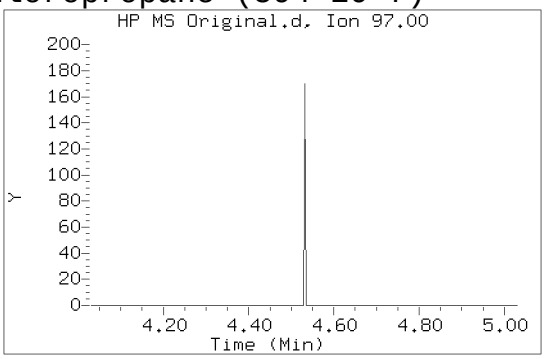
Inj Date : 15-JUN-2024 14:01
InstruID : voa7.i
LabSampID : VSTD00.5

2,2-Dichloropropane (594-20-7)

Reason Code:

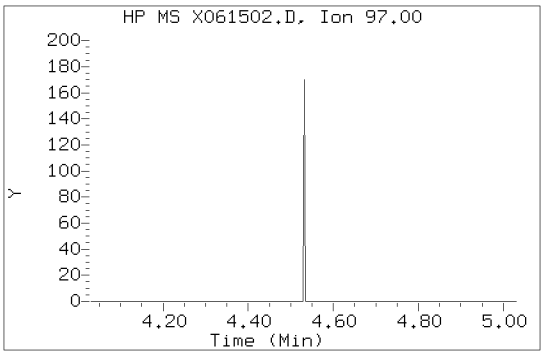
BEFORE

MASS
97
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
97
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

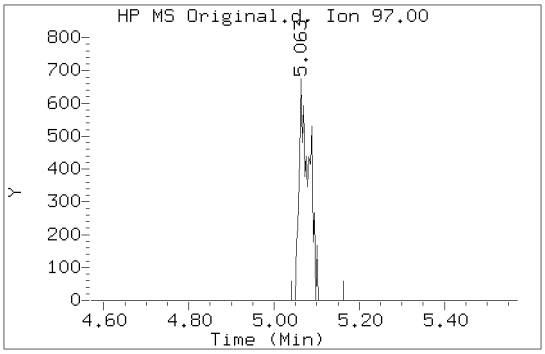


1,1,1-Trichloroethane (71-55-6)

Reason Code:

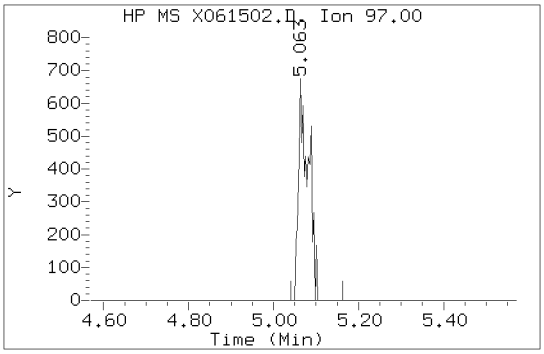
BEFORE

MASS
97
AREA
1107
HEIGHT
675
12-Jul-2024
11:38
s
zaid



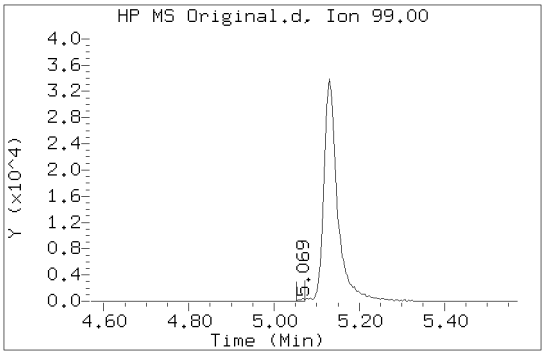
AFTER

MASS
97
AREA
1107
HEIGHT
675
12-Jul-2024
11:38
s
zaid



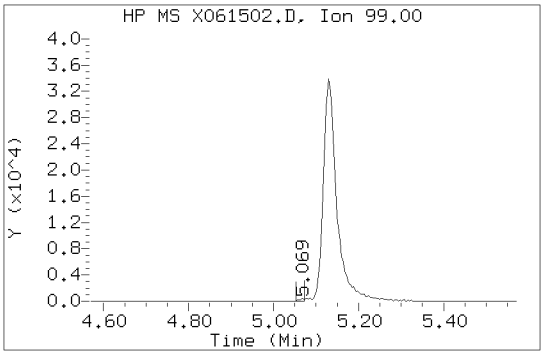
BEFORE

MASS
99
AREA
309
HEIGHT
386
12-Jul-2024
11:38
s
zaid



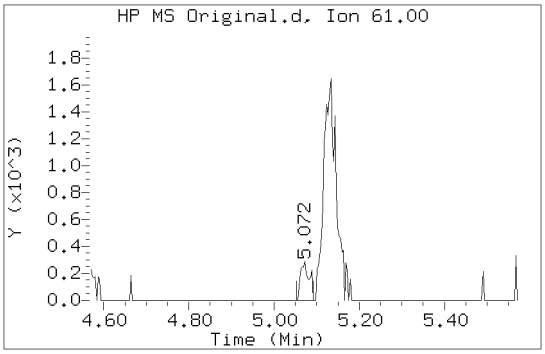
AFTER

MASS
99
AREA
309
HEIGHT
386
12-Jul-2024
11:38
s
zaid



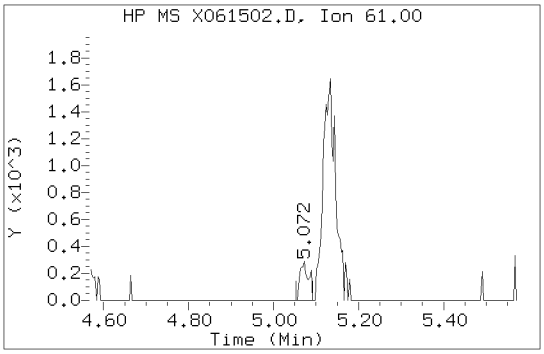
BEFORE

MASS
61
AREA
402
HEIGHT
289
12-Jul-2024
11:38
s
zaid



AFTER

MASS
61
AREA
402
HEIGHT
289
12-Jul-2024
11:38
s
zaid



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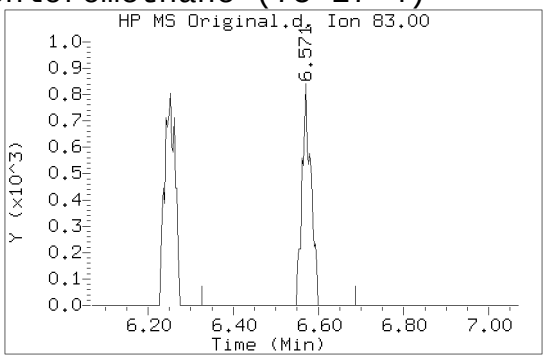
Inj Date : 15-JUN-2024 14:01
InstruID : voa7.i
LabSampID : VSTD00.5

Bromodichloromethane (75-27-4)

Reason Code:

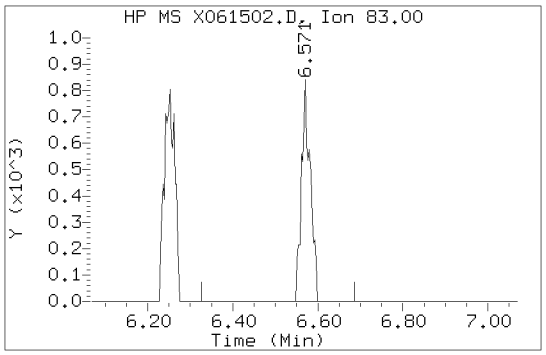
BEFORE

MASS
83
AREA
1216
HEIGHT
841
12-Jul-2024
11:38
s
zaid



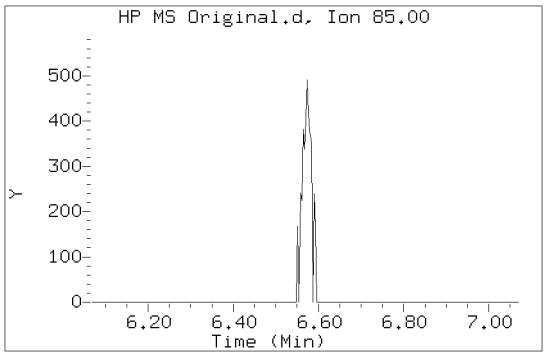
AFTER

MASS
83
AREA
1216
HEIGHT
841
12-Jul-2024
11:38
s
zaid



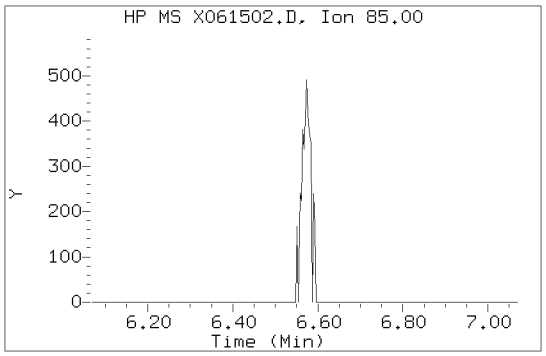
BEFORE

MASS
85
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



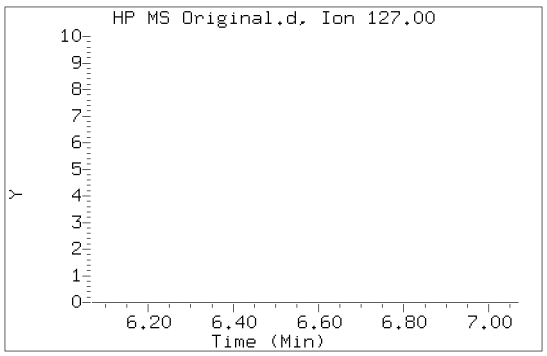
AFTER

MASS
85
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



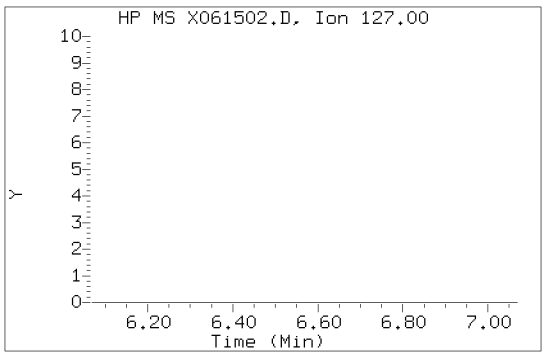
BEFORE

MASS
127
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
127
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

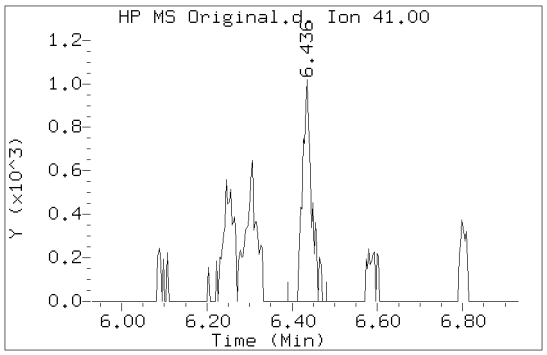


Methyl Methacrylate (80-62-6)

Reason Code:

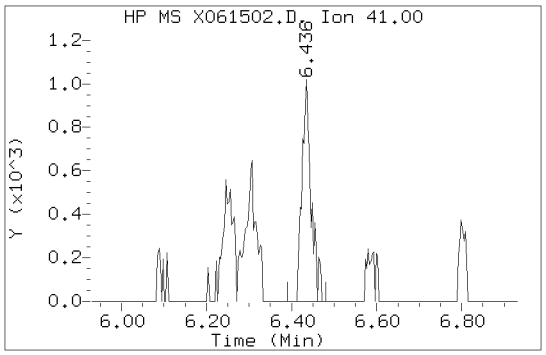
BEFORE

MASS
41
AREA
1533
HEIGHT
1019
12-Jul-2024
11:38
s
zaid



AFTER

MASS
41
AREA
1533
HEIGHT
1019
12-Jul-2024
11:38
s
zaid



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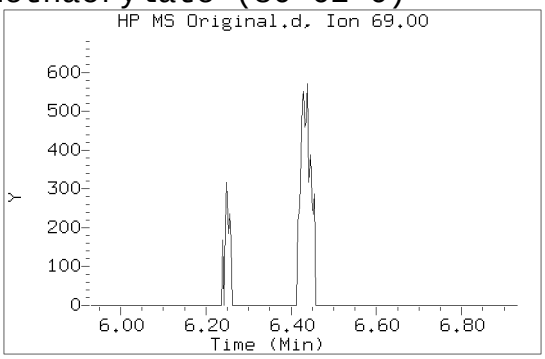
Inj Date : 15-JUN-2024 14:01
InstruID : voa7.i
LabSampID : VSTD00.5

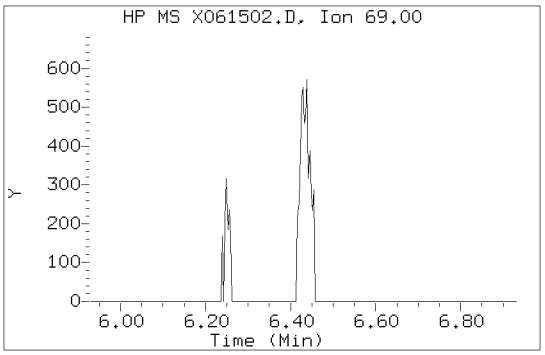
Methyl Methacrylate (80-62-6)

Reason Code:

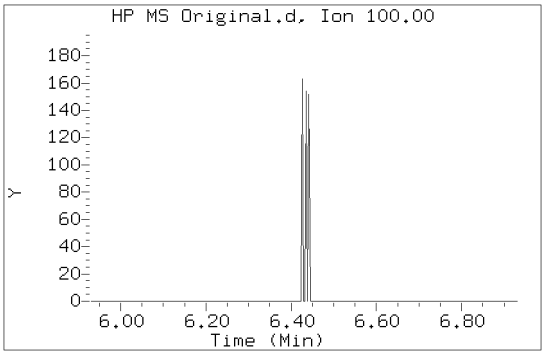
BEFORE
MASS
69
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



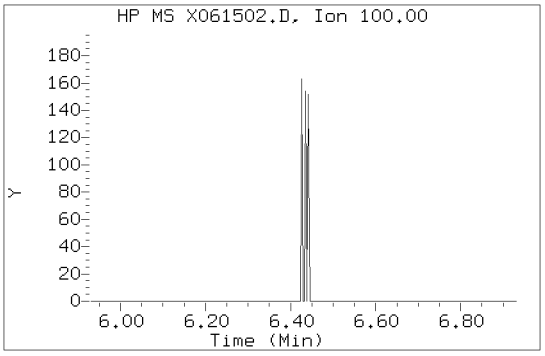
AFTER
MASS
69
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
100
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



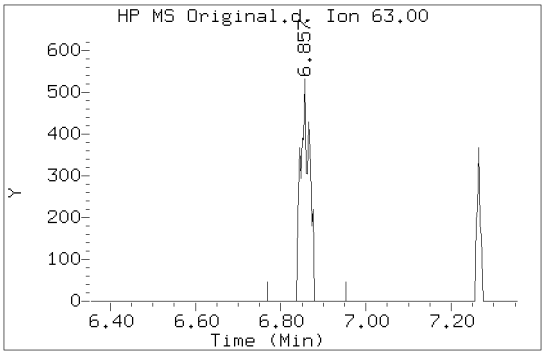
AFTER
MASS
100
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



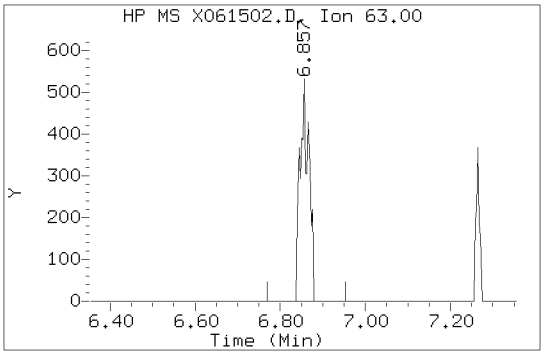
2-Chloroethylvinyl ether (110-75-8)

Reason Code:

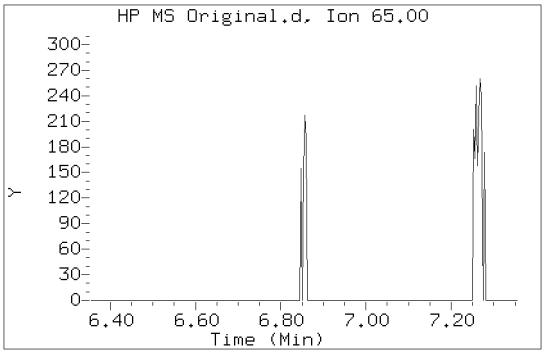
BEFORE
MASS
63
AREA
758
HEIGHT
532
12-Jul-2024
11:38
s
zaid



AFTER
MASS
63
AREA
758
HEIGHT
532
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
65
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER
MASS
65
AREA
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HEIGHT
0
12-Jul-2024
11:38
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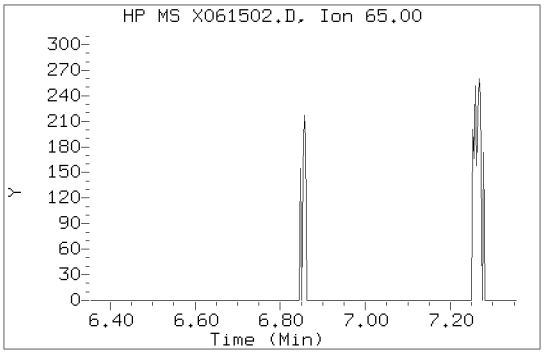

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Inj Date : 15-JUN-2024 14:01
InstruID : voa7.i
LabSampID : VSTD00.5

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

BEFORE

MASS
106
AREA
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11:38
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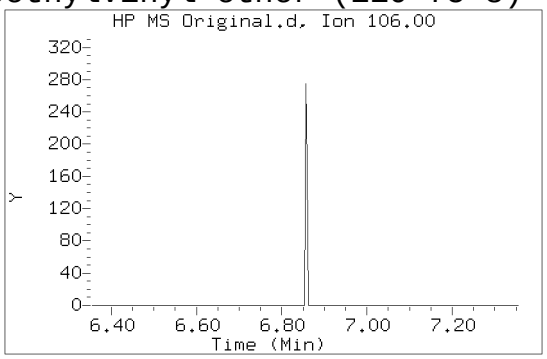
zaid



AFTER

MASS
106
AREA
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0
12-Jul-2024
11:38
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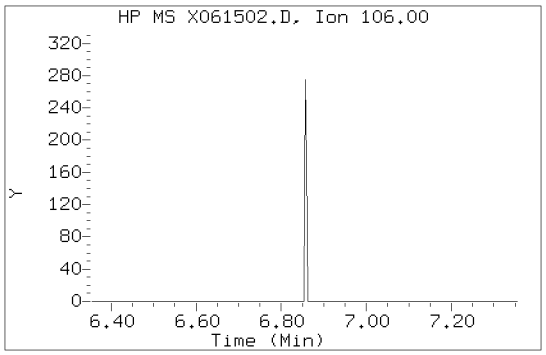

tert-Butyl formate (762-75-4)

Reason Code:

BEFORE

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919
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11:38
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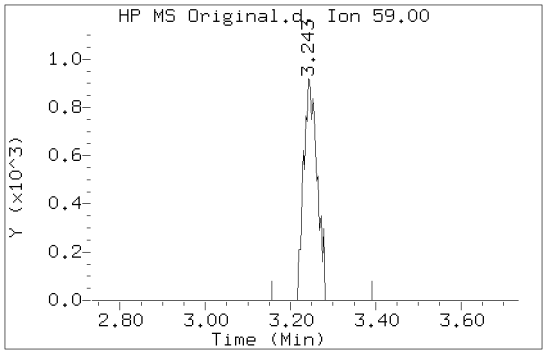
zaid



AFTER

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AREA
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HEIGHT
919
12-Jul-2024
11:38
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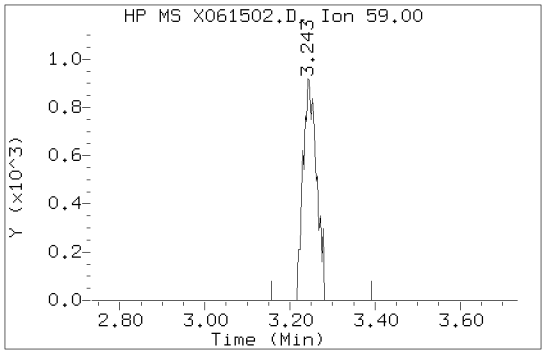
zaid



BEFORE

MASS
57
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0
HEIGHT
0
12-Jul-2024
11:38
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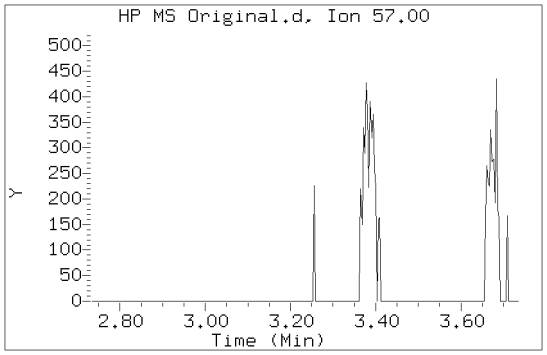
zaid



AFTER

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HEIGHT
0
12-Jul-2024
11:38
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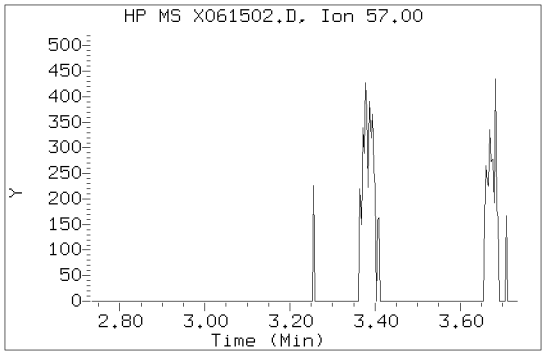
zaid



BEFORE

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12-Jul-2024
11:38
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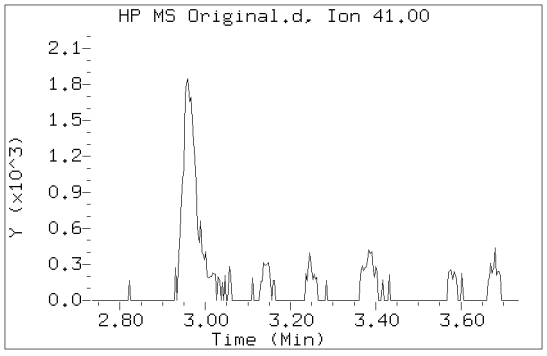

AFTER

MASS
41
AREA
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HEIGHT
0
12-Jul-2024
11:38
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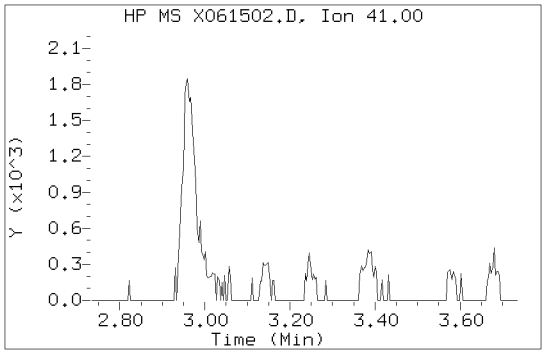
zaid



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Inj Date : 15-JUN-2024 14:01
InstruID : voa7.i
LabSampID : VSTD00.5

Ethanol (64-17-5)

Reason Code:

BEFORE

MASS
45
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213
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269
12-Jul-2024
11:38
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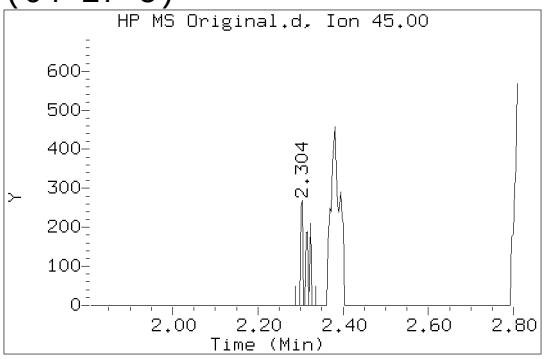
zaid



AFTER

MASS
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AREA
213
HEIGHT
269
12-Jul-2024
11:38
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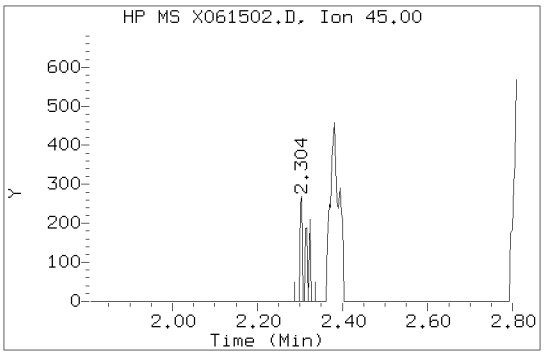
zaid



BEFORE

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46
AREA
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HEIGHT
0
12-Jul-2024
11:38
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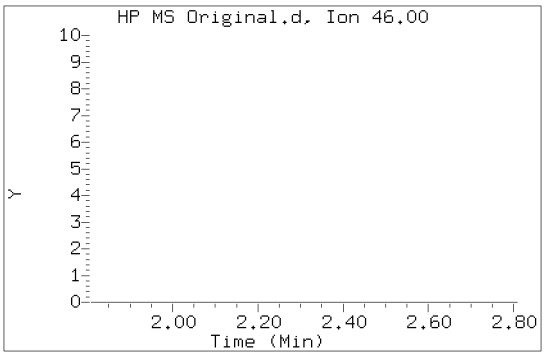
zaid



AFTER

MASS
46
AREA
0
HEIGHT
0
12-Jul-2024
11:38
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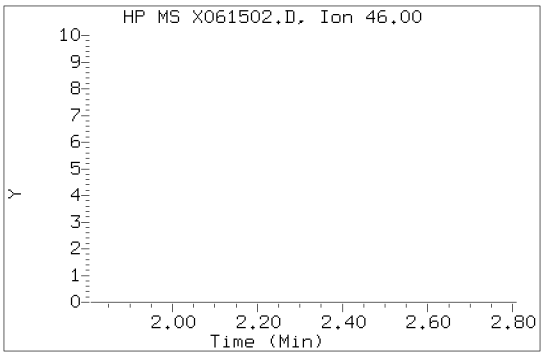
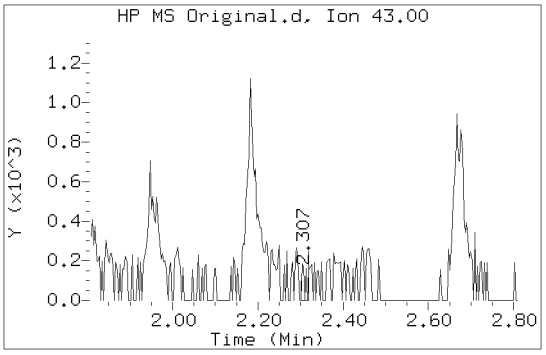
zaid



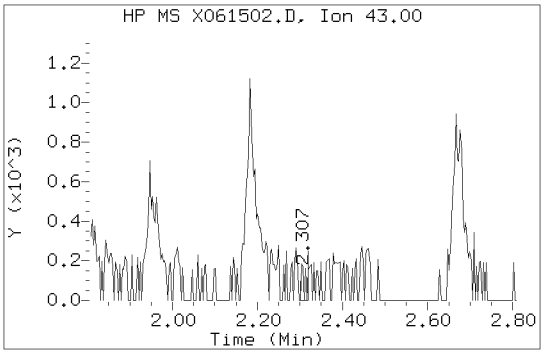
BEFORE

MASS
43
AREA
128
HEIGHT
168
12-Jul-2024
11:38
s
zaid



AFTER

MASS
43
AREA
128
HEIGHT
168
12-Jul-2024
11:38
s
zaid



Ethyl Methacrylate (97-63-2)

Reason Code:

BEFORE

MASS
69
AREA
1845
HEIGHT
579
12-Jul-2024
11:38
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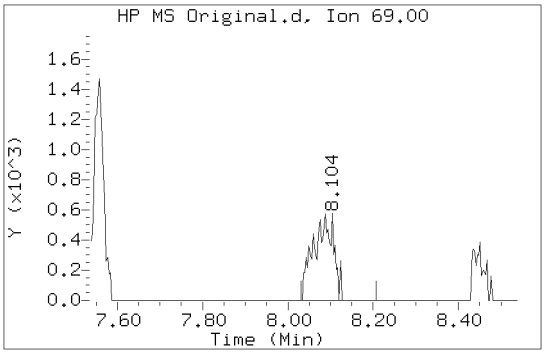
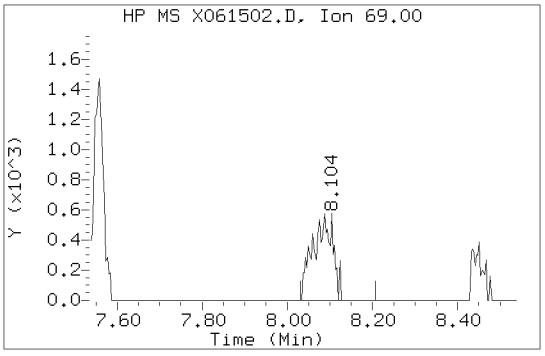
zaid



AFTER

MASS
69
AREA
1845
HEIGHT
579
12-Jul-2024
11:38
s
zaid



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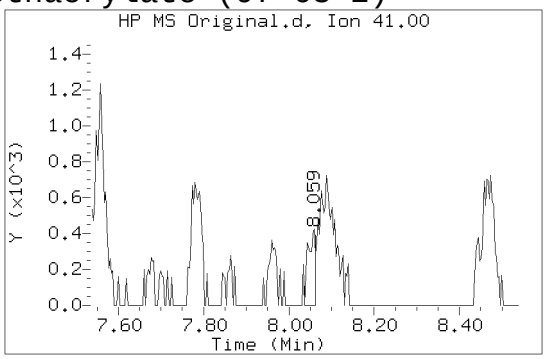
Inj Date : 15-JUN-2024 14:01
InstruID : voa7.i
LabSampID : VSTD00.5

Ethyl Methacrylate (97-63-2)

Reason Code:

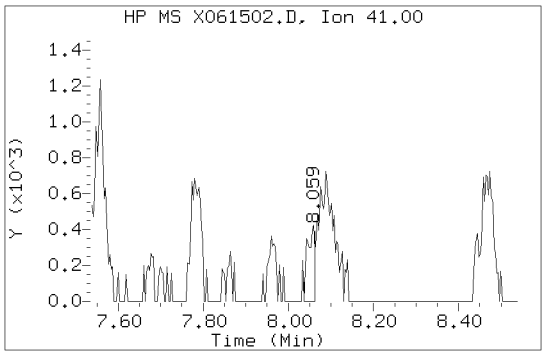
BEFORE

MASS
41
AREA
493
HEIGHT
424
12-Jul-2024
11:38
s
zaid



AFTER

MASS
41
AREA
493
HEIGHT
424
12-Jul-2024
11:38
s
zaid



1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

BEFORE

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83
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HEIGHT
960
12-Jul-2024
11:38
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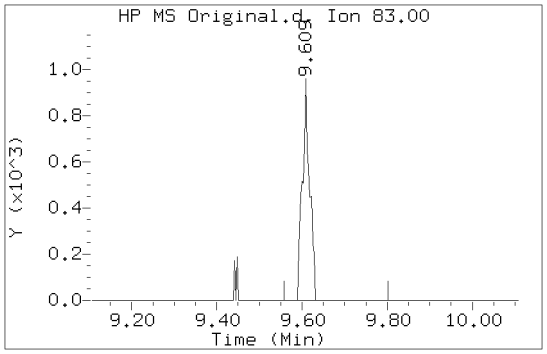
zaid



AFTER

MASS
83
AREA
1141
HEIGHT
960
12-Jul-2024
11:38
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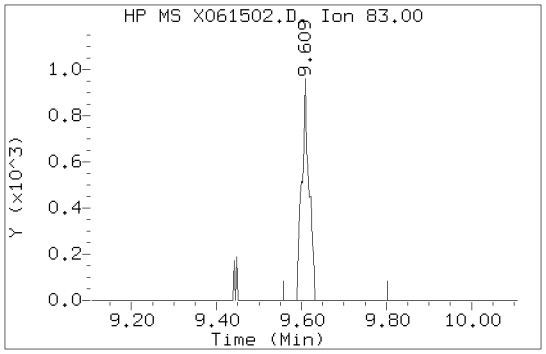
zaid



BEFORE

MASS
131
AREA
0
HEIGHT
0
12-Jul-2024
11:38
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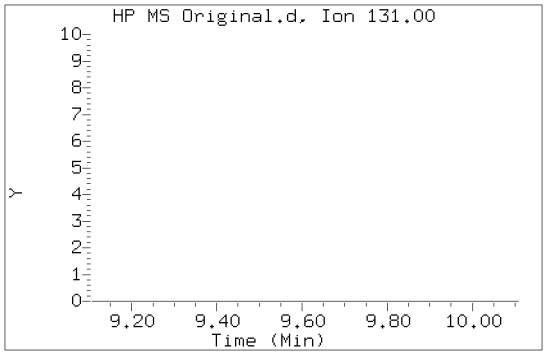
zaid



AFTER

MASS
131
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HEIGHT
0
12-Jul-2024
11:38
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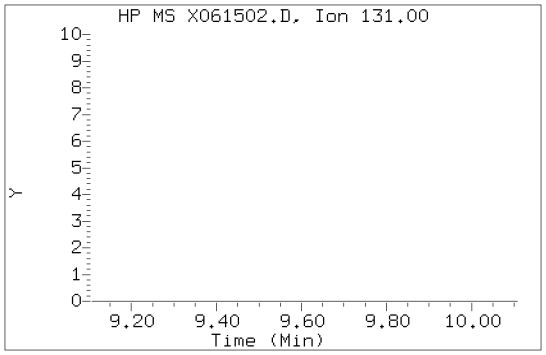
zaid



BEFORE

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12-Jul-2024
11:38
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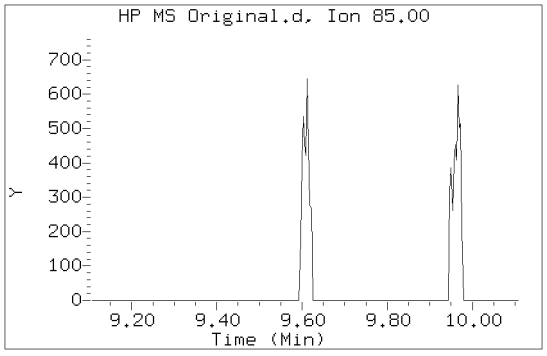

AFTER

MASS
85
AREA
0
HEIGHT
0
12-Jul-2024
11:38
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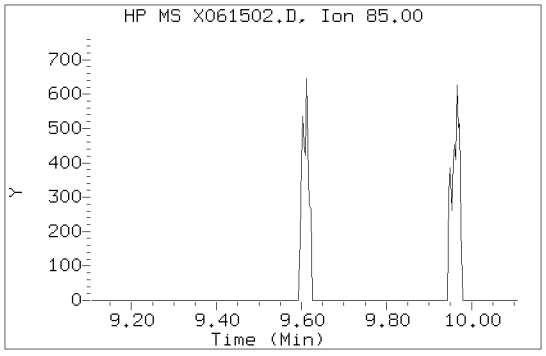
zaid



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Inj Date : 15-JUN-2024 14:01
InstruID : voa7.i
LabSampID : VSTD00.5

1,4-Dioxane ()

Reason Code:

BEFORE
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88
AREA
203
HEIGHT
301
12-Jul-2024
11:38
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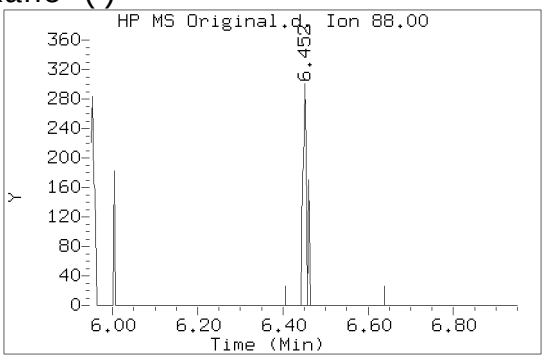
zaid



AFTER
MASS
88
AREA
203
HEIGHT
301
12-Jul-2024
11:38
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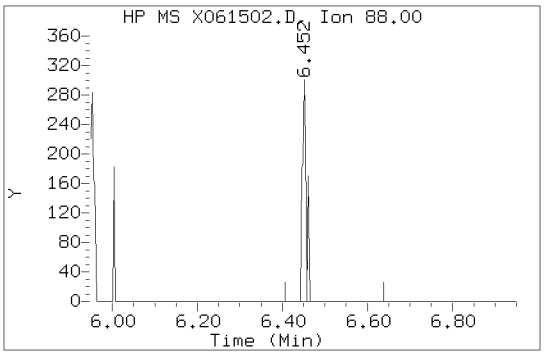
zaid



BEFORE
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335
12-Jul-2024
11:38
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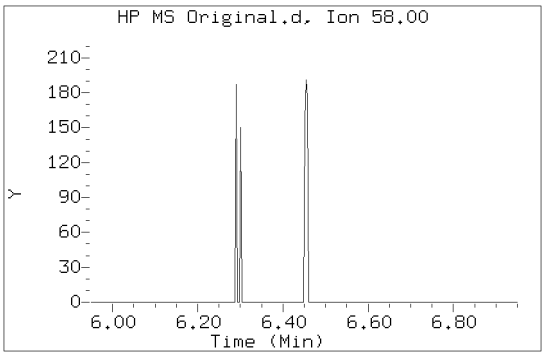

AFTER
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AREA
416
HEIGHT
335
12-Jul-2024
11:38
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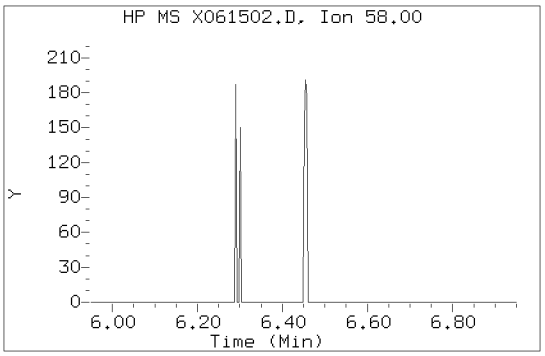
zaid



Methyl acetate (79-20-9)

Reason Code:

BEFORE
MASS
43
AREA
388
HEIGHT
329
12-Jul-2024
11:38
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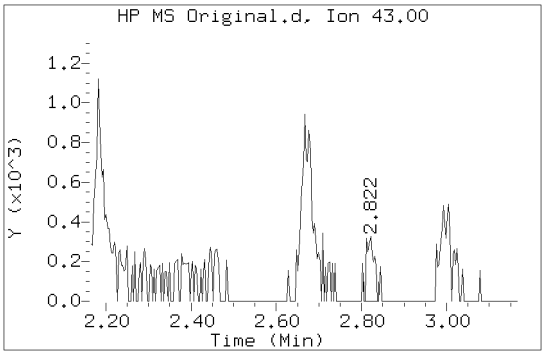
zaid



AFTER
MASS
43
AREA
388
HEIGHT
329
12-Jul-2024
11:38
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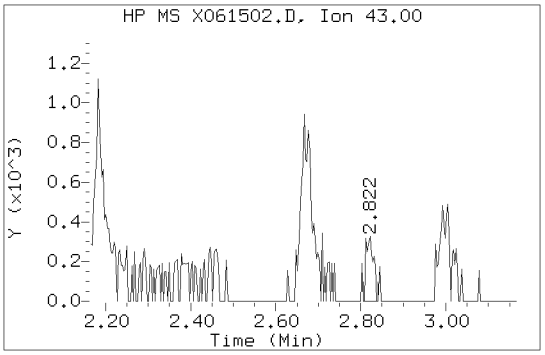
zaid



BEFORE
MASS
74
AREA
0
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0
12-Jul-2024
11:38
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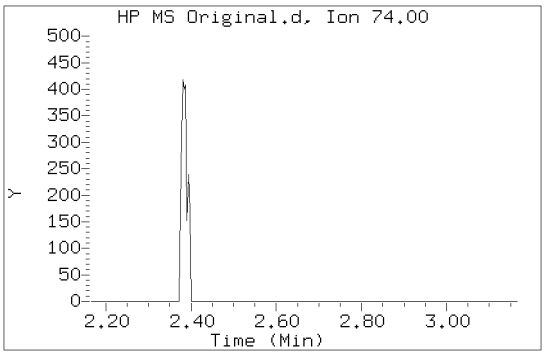
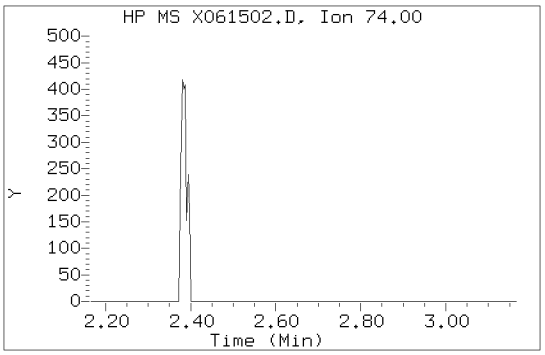
zaid



AFTER
MASS
74
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



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Inj Date : 15-JUN-2024 14:01
InstruID : voa7.i
LabSampID : VSTD00.5

Freon TF (76-13-1)

Reason Code:

BEFORE

MASS
101
AREA
380
HEIGHT
351
12-Jul-2024
11:38
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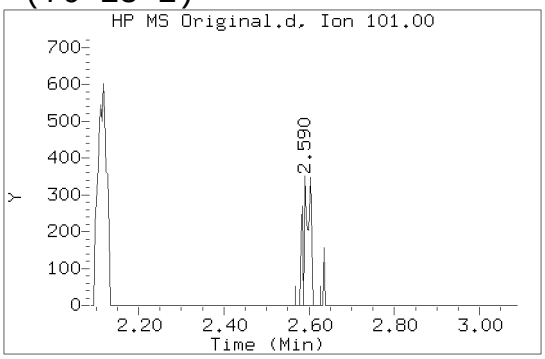
zaid



AFTER

MASS
101
AREA
380
HEIGHT
351
12-Jul-2024
11:38
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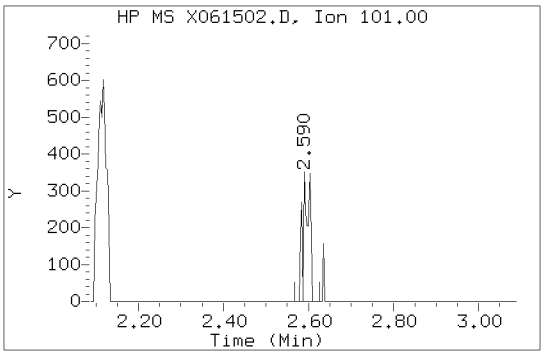
zaid



BEFORE

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HEIGHT
0
12-Jul-2024
11:38
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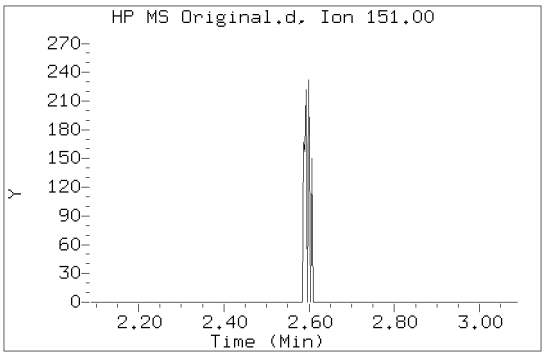
zaid



AFTER

MASS
151
AREA
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HEIGHT
0
12-Jul-2024
11:38
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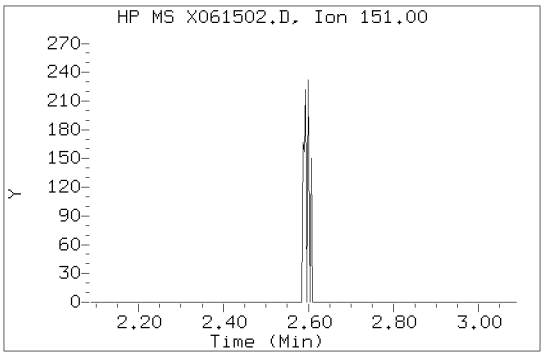
zaid



BEFORE

MASS
153
AREA
0
HEIGHT
0
12-Jul-2024
11:38
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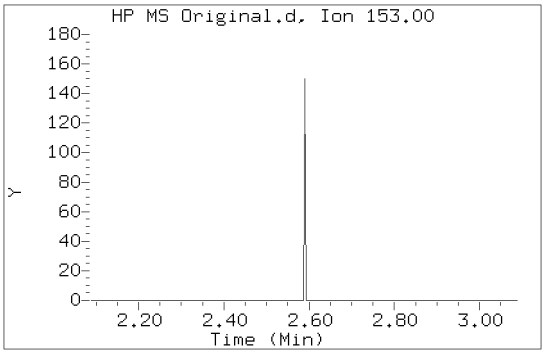
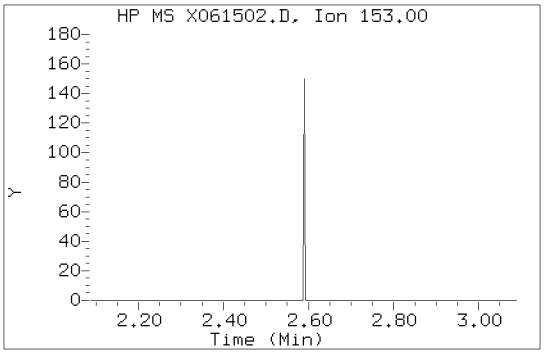
zaid



AFTER

MASS
153
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

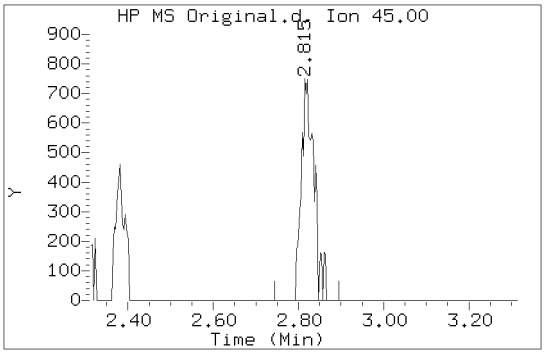


Isopropyl alcohol (67-63-0)

Reason Code:

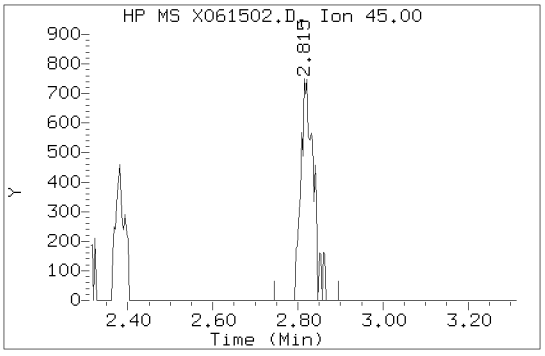
BEFORE

MASS
45
AREA
1589
HEIGHT
750
12-Jul-2024
11:38
s
zaid



AFTER

MASS
45
AREA
1589
HEIGHT
750
12-Jul-2024
11:38
s
zaid



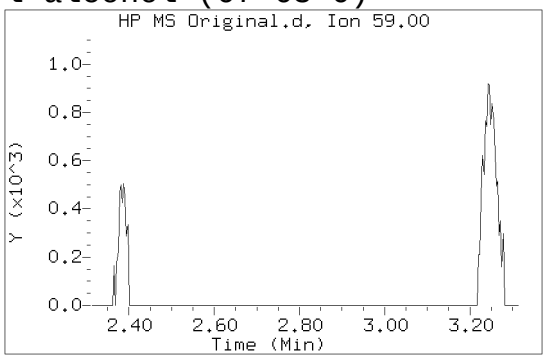
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061502.D
Inj Date : 15-JUN-2024 14:01
InstruID : voa7.i
LabSampID : VSTD00.5

Isopropyl alcohol (67-63-0)

Reason Code:

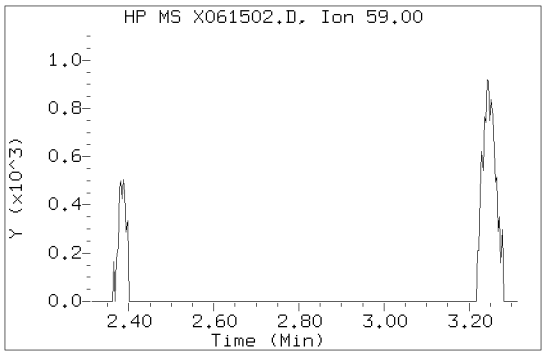
BEFORE

MASS
59
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
59
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

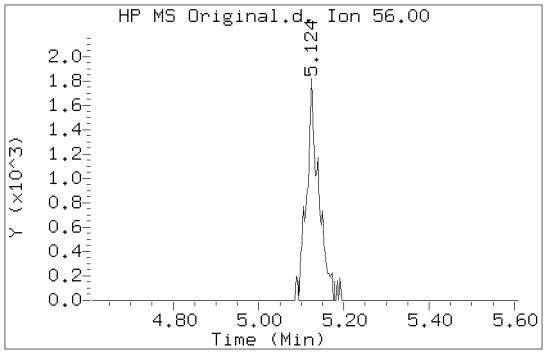


Cyclohexane (110-82-7)

Reason Code:

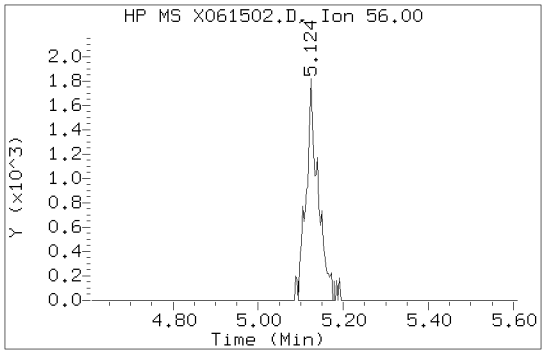
BEFORE

MASS
56
AREA
3487
HEIGHT
1820
12-Jul-2024
11:38
s
zaid



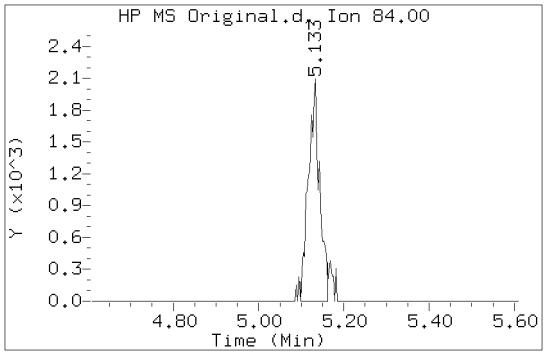
AFTER

MASS
56
AREA
3487
HEIGHT
1820
12-Jul-2024
11:38
s
zaid



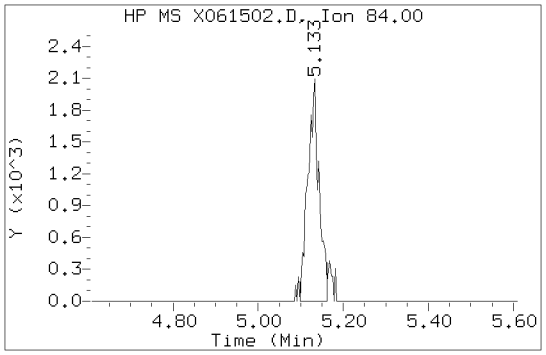
BEFORE

MASS
84
AREA
3806
HEIGHT
2094
12-Jul-2024
11:38
s
zaid



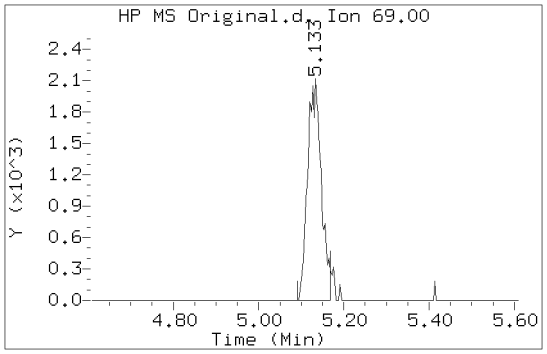
AFTER

MASS
84
AREA
3806
HEIGHT
2094
12-Jul-2024
11:38
s
zaid



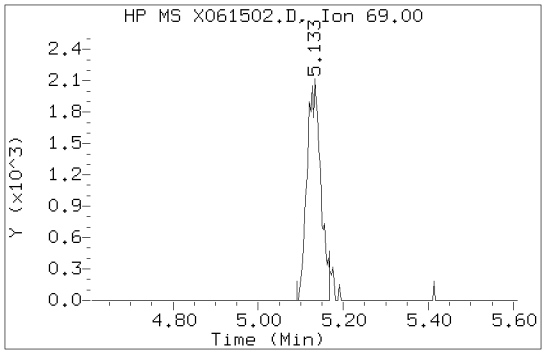
BEFORE

MASS
69
AREA
4717
HEIGHT
2119
12-Jul-2024
11:38
s
zaid



AFTER

MASS
69
AREA
4717
HEIGHT
2119
12-Jul-2024
11:38
s
zaid



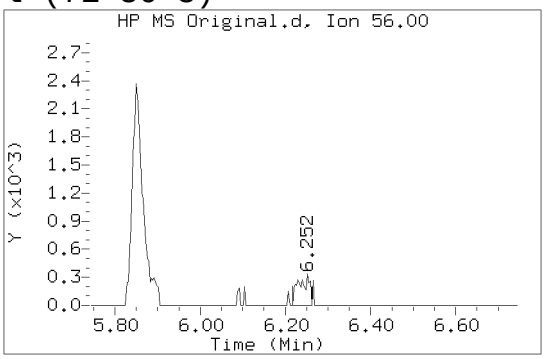
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061502.D
Inj Date : 15-JUN-2024 14:01
InstruID : voa7.i
LabSampID : VSTD00.5

n-Butanol (71-36-3)

Reason Code:

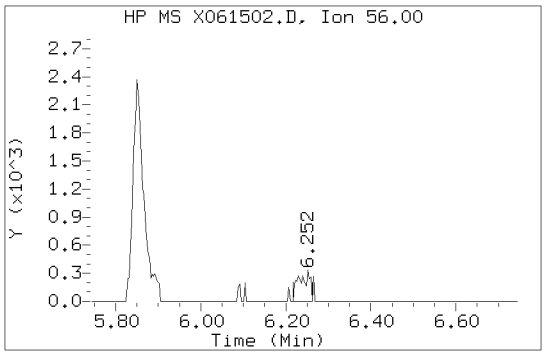
BEFORE

MASS
56
AREA
574
HEIGHT
334
12-Jul-2024
11:38
s
zaid



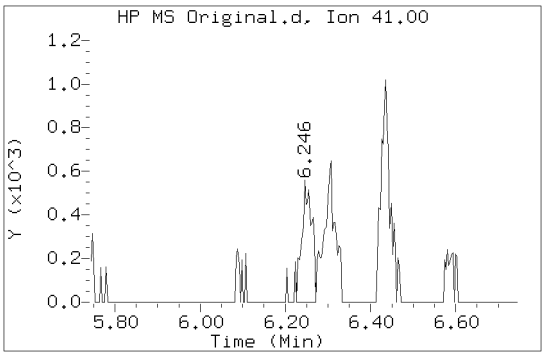
AFTER

MASS
56
AREA
574
HEIGHT
334
12-Jul-2024
11:38
s
zaid



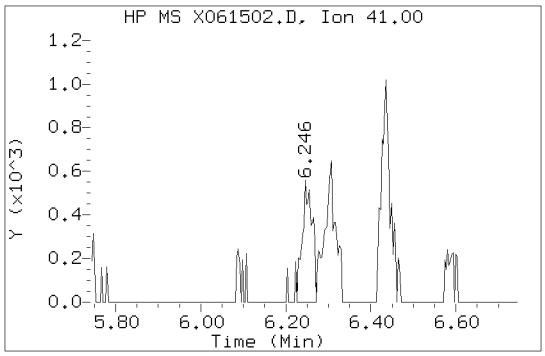
BEFORE

MASS
41
AREA
901
HEIGHT
561
12-Jul-2024
11:38
s
zaid



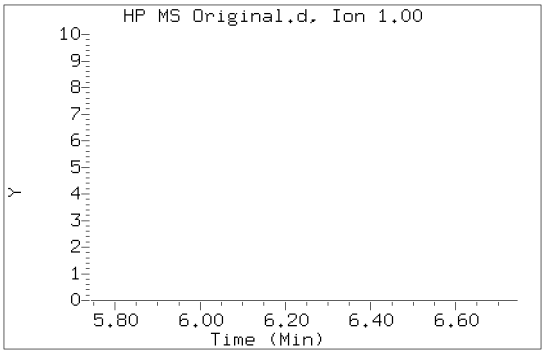
AFTER

MASS
41
AREA
901
HEIGHT
561
12-Jul-2024
11:38
s
zaid



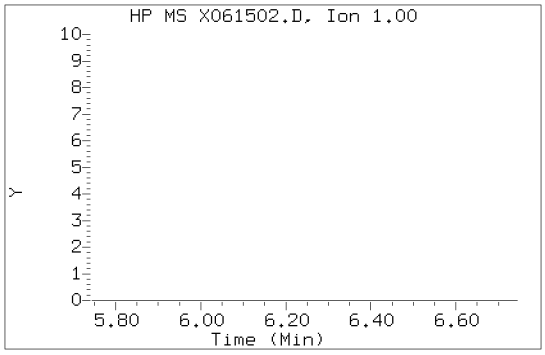
BEFORE

MASS
1
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
1
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

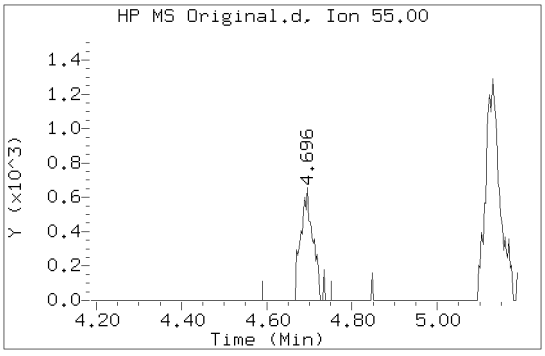


Methyl Acrylate (96-33-3)

Reason Code:

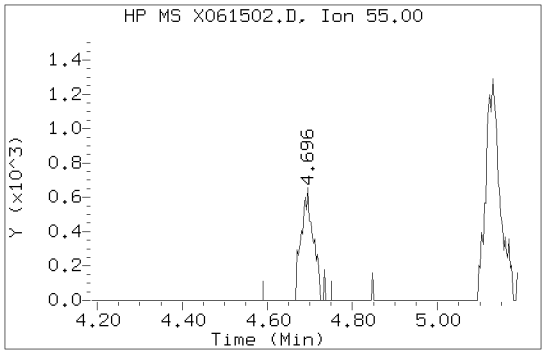
BEFORE

MASS
55
AREA
1317
HEIGHT
657
12-Jul-2024
11:38
s
zaid



AFTER

MASS
55
AREA
1317
HEIGHT
657
12-Jul-2024
11:38
s
zaid



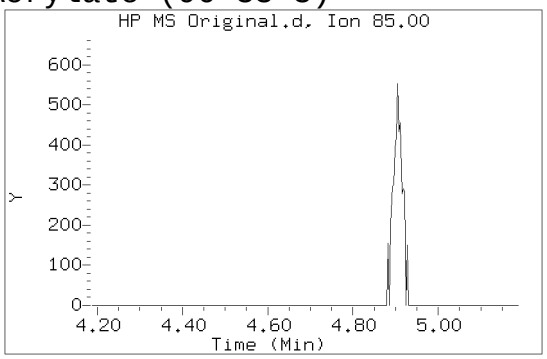
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061502.D
Inj Date : 15-JUN-2024 14:01
InstruID : voa7.i
LabSampID : VSTD00.5

Methyl Acrylate (96-33-3)

Reason Code:

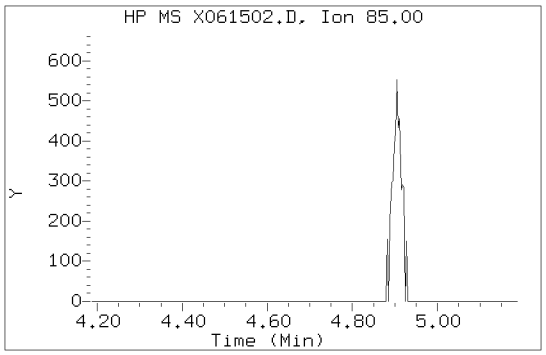
BEFORE

MASS
85
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
85
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

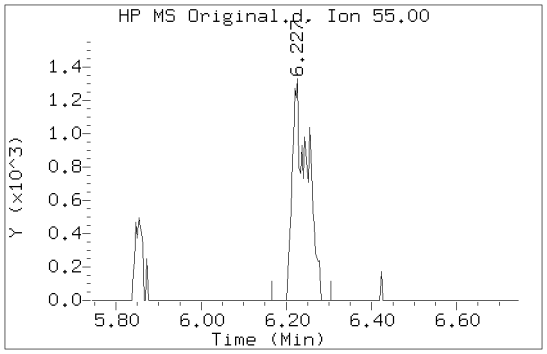


Ethyl Acrylate (140-88-5)

Reason Code:

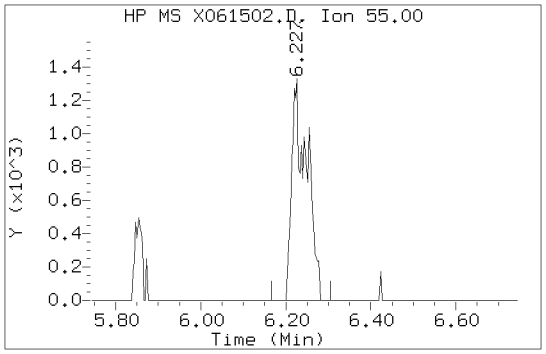
BEFORE

MASS
55
AREA
3293
HEIGHT
1330
12-Jul-2024
11:38
s
zaid



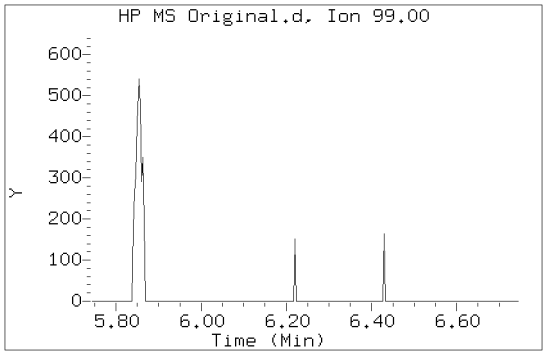
AFTER

MASS
55
AREA
3293
HEIGHT
1330
12-Jul-2024
11:38
s
zaid



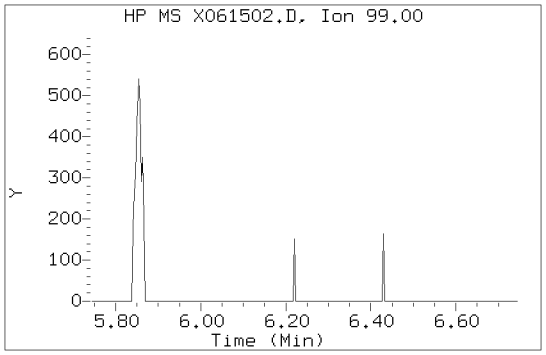
BEFORE

MASS
99
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
99
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

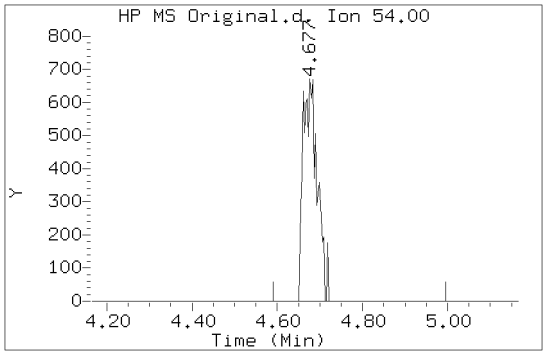


Propionitrile (107-12-0)

Reason Code:

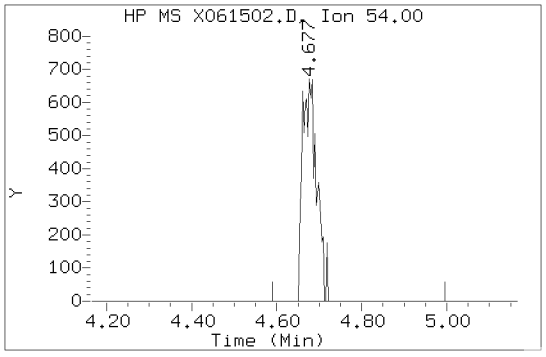
BEFORE

MASS
54
AREA
1567
HEIGHT
671
12-Jul-2024
11:38
s
zaid



AFTER

MASS
54
AREA
1567
HEIGHT
671
12-Jul-2024
11:38
s
zaid



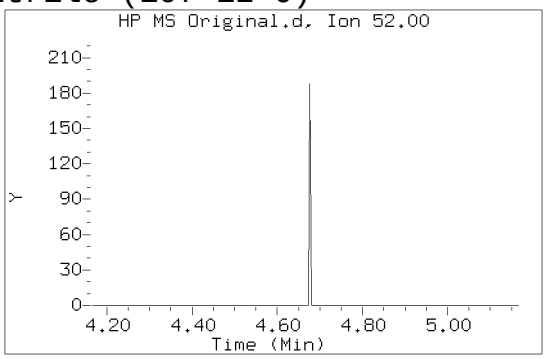
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061502.D
Inj Date : 15-JUN-2024 14:01
InstruID : voa7.i
LabSampID : VSTD00.5

Propionitrile (107-12-0)

Reason Code:

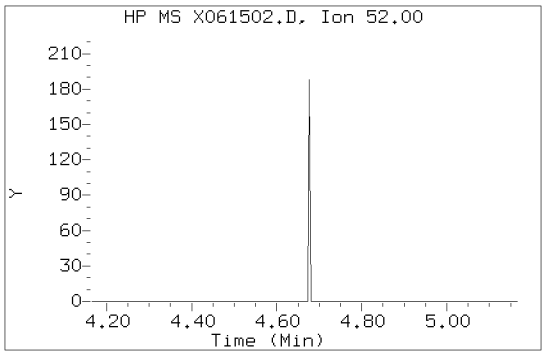
BEFORE

MASS
52
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



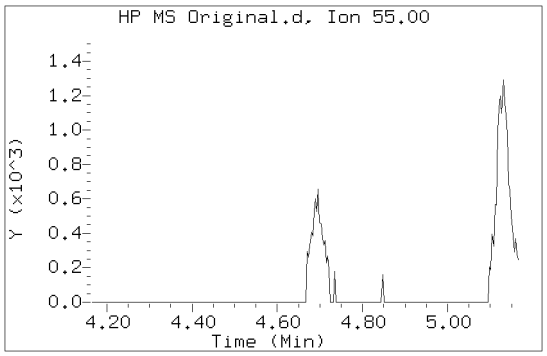
AFTER

MASS
52
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



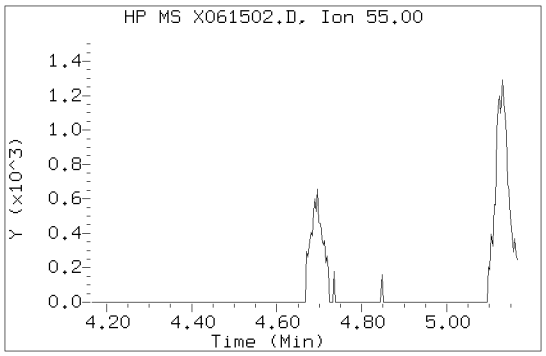
BEFORE

MASS
55
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
55
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

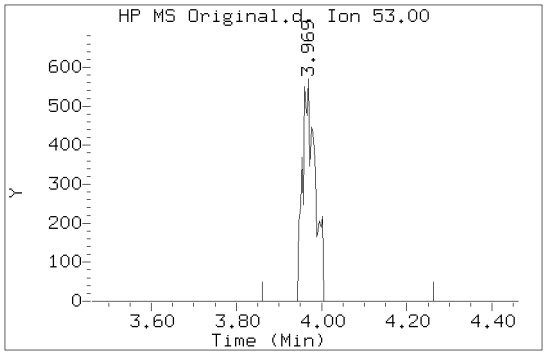


Chloroprene (126-99-8)

Reason Code:

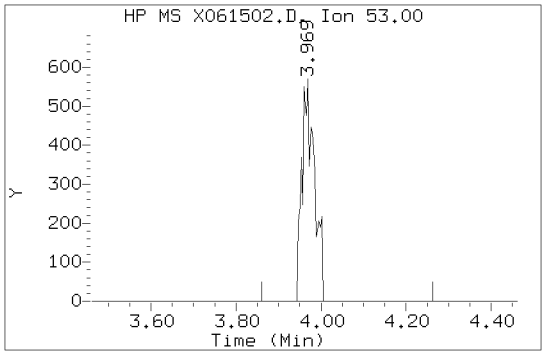
BEFORE

MASS
53
AREA
1169
HEIGHT
570
12-Jul-2024
11:38
s
zaid



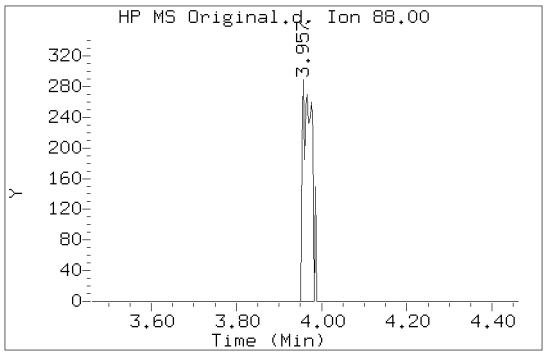
AFTER

MASS
53
AREA
1169
HEIGHT
570
12-Jul-2024
11:38
s
zaid



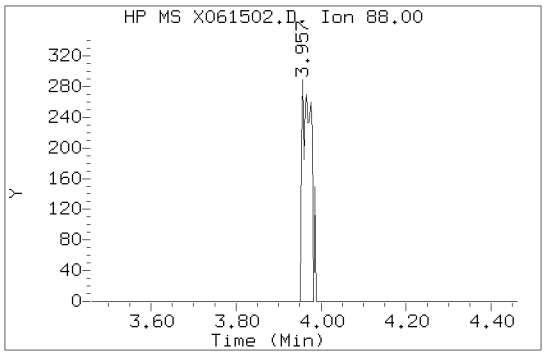
BEFORE

MASS
88
AREA
414
HEIGHT
289
12-Jul-2024
11:38
s
zaid



AFTER

MASS
88
AREA
414
HEIGHT
289
12-Jul-2024
11:38
s
zaid

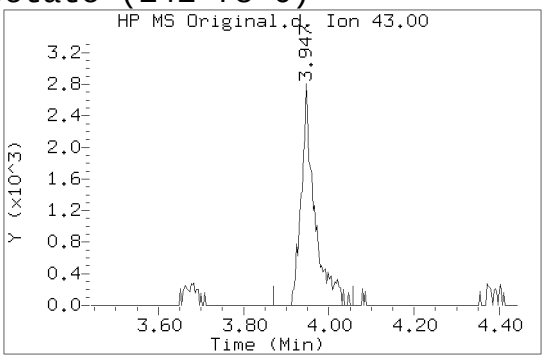


Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061502.D
Inj Date : 15-JUN-2024 14:01
InstruID : voa7.i
LabSampID : VSTD00.5

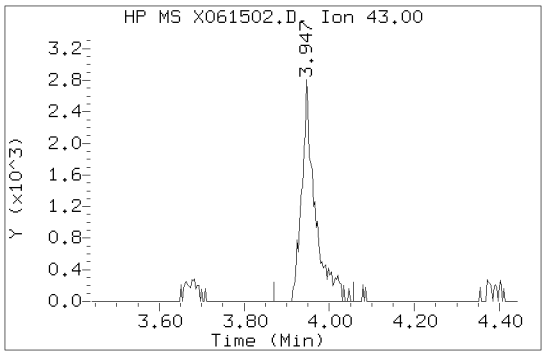
Ethyl Acetate (141-78-6)

Reason Code:

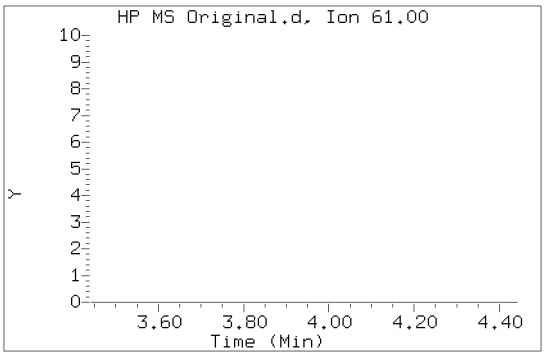
BEFORE
MASS
43
AREA
6119
HEIGHT
2807
12-Jul-2024
11:38
s
zaid



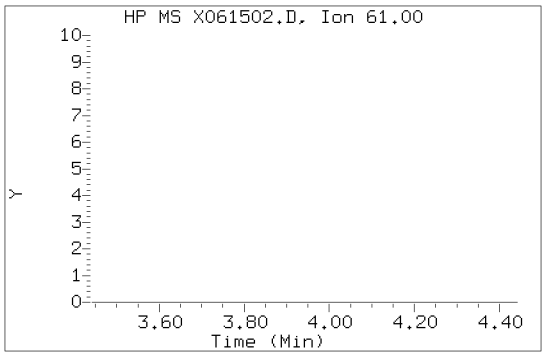
AFTER
MASS
43
AREA
6119
HEIGHT
2807
12-Jul-2024
11:38
s
zaid



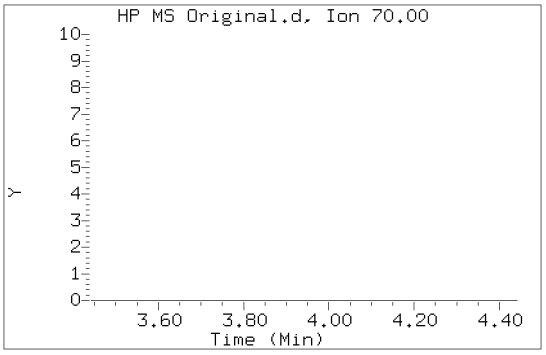
BEFORE
MASS
61
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



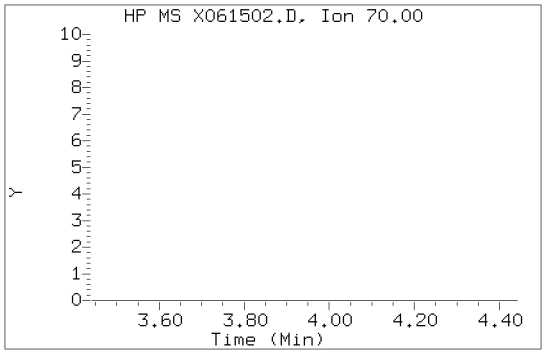
AFTER
MASS
61
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
70
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



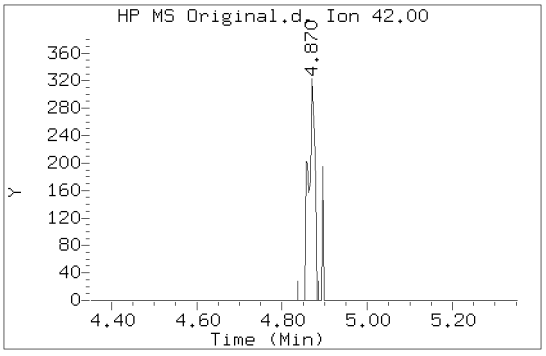
AFTER
MASS
70
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



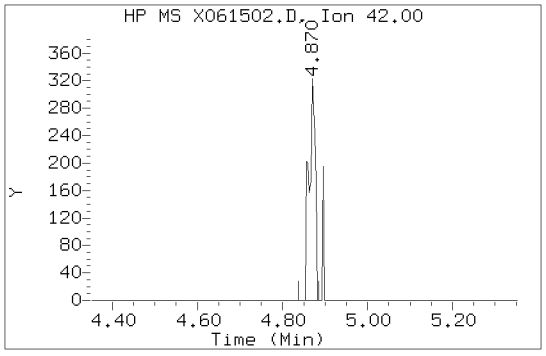
Tetrahydrofuran (109-99-9)

Reason Code:

BEFORE
MASS
42
AREA
337
HEIGHT
323
12-Jul-2024
11:38
s
zaid



AFTER
MASS
42
AREA
337
HEIGHT
323
12-Jul-2024
11:38
s
zaid



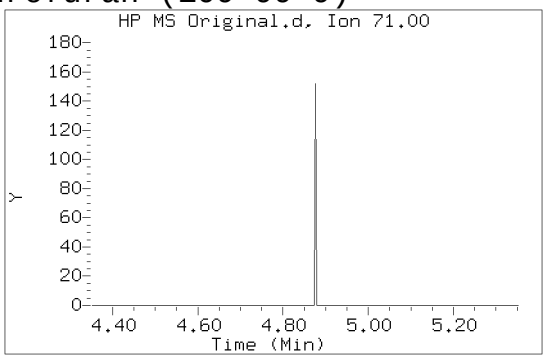
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061502.D
Inj Date : 15-JUN-2024 14:01
InstruID : voa7.i
LabSampID : VSTD00.5

Tetrahydrofuran (109-99-9)

Reason Code:

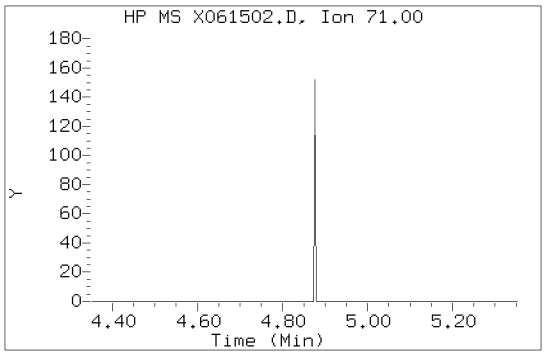
BEFORE

MASS
71
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
71
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

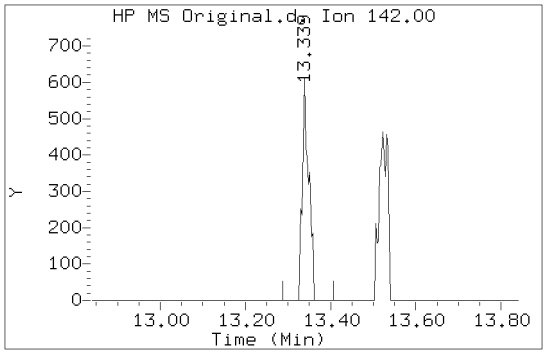


2-Methylnaphthalene (91-57-6)

Reason Code:

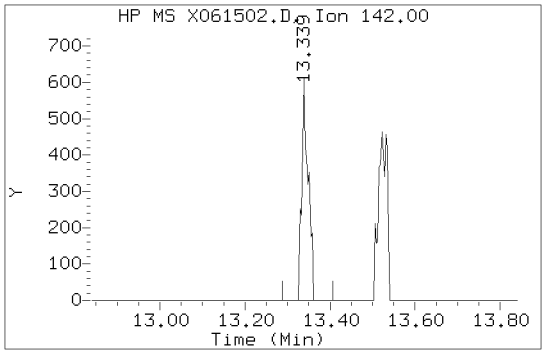
BEFORE

MASS
142
AREA
650
HEIGHT
610
12-Jul-2024
11:38
s
zaid



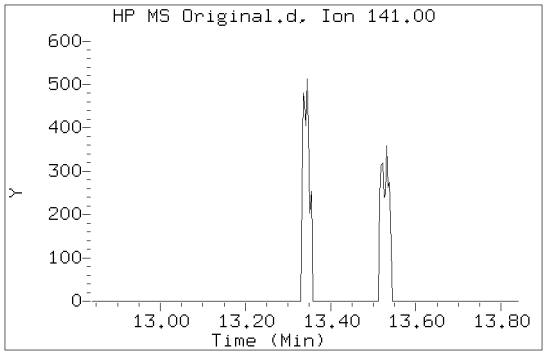
AFTER

MASS
142
AREA
650
HEIGHT
610
12-Jul-2024
11:38
s
zaid



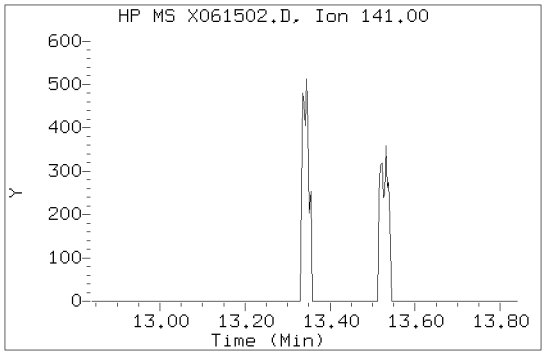
BEFORE

MASS
141
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



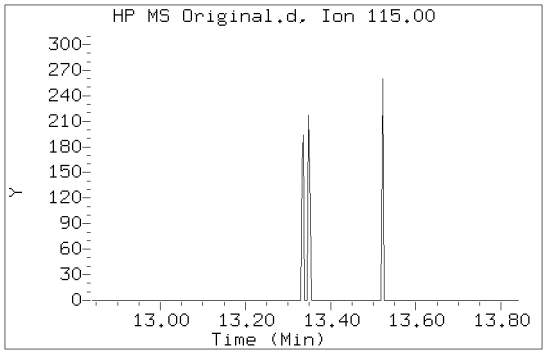
AFTER

MASS
141
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



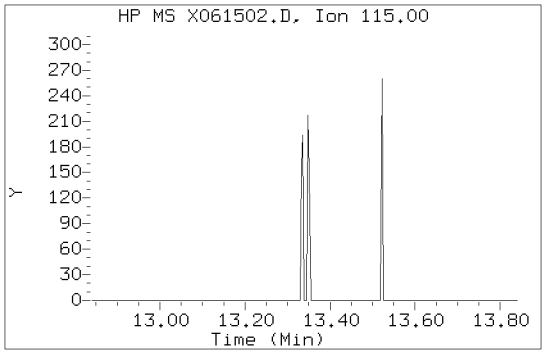
BEFORE

MASS
115
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
115
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



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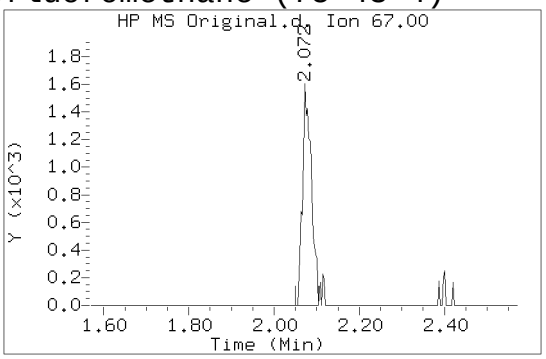
Inj Date : 15-JUN-2024 14:01
InstruID : voa7.i
LabSampID : VSTD00.5

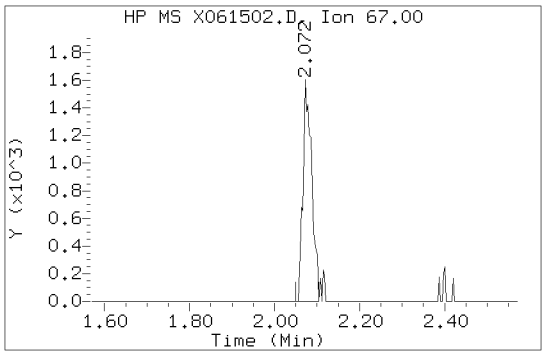
Dichlorofluoromethane (75-43-4)

Reason Code:

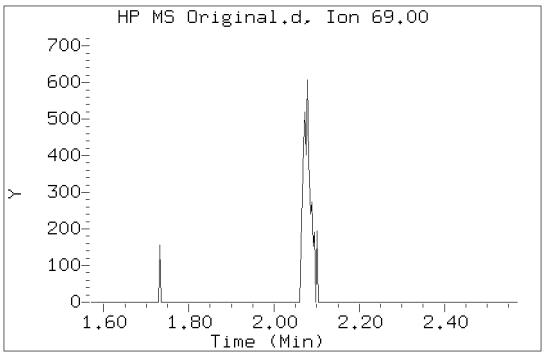
BEFORE
MASS
67
AREA
2316
HEIGHT
1604
12-Jul-2024
11:38
s
zaid



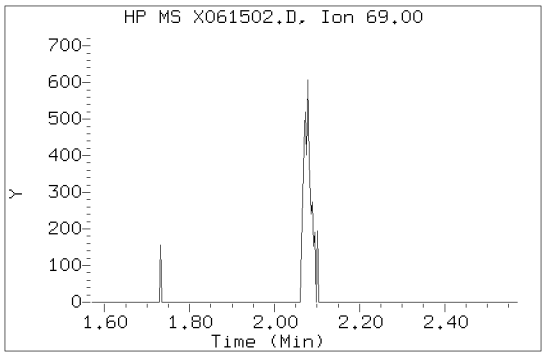
AFTER
MASS
67
AREA
2316
HEIGHT
1604
12-Jul-2024
11:38
s
zaid



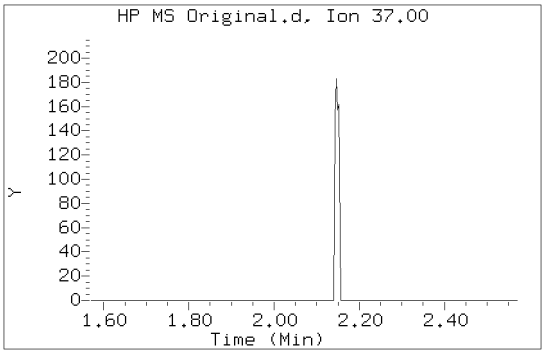
BEFORE
MASS
69
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



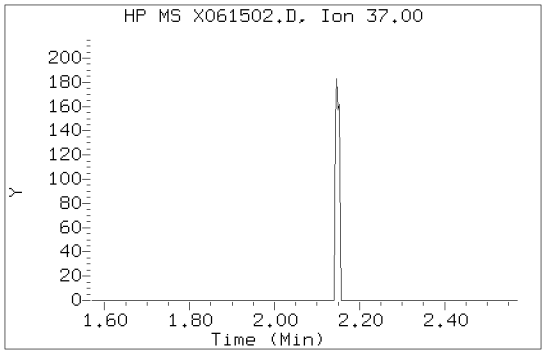
AFTER
MASS
69
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
37
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



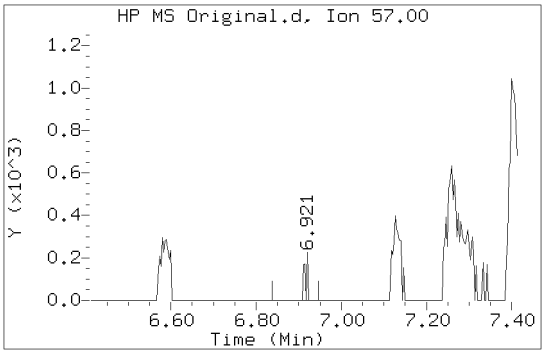
AFTER
MASS
37
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



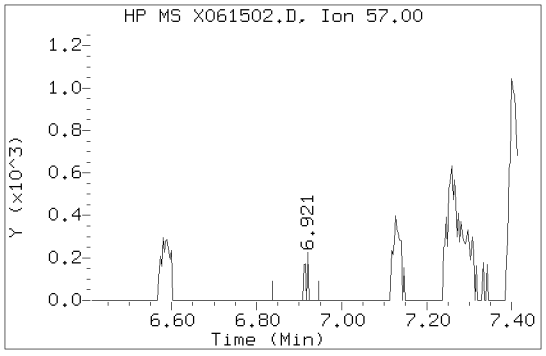
Epichlorohydrin (106-89-8)

Reason Code:

BEFORE
MASS
57
AREA
109
HEIGHT
225
12-Jul-2024
11:38
s
zaid



AFTER
MASS
57
AREA
109
HEIGHT
225
12-Jul-2024
11:38
s
zaid



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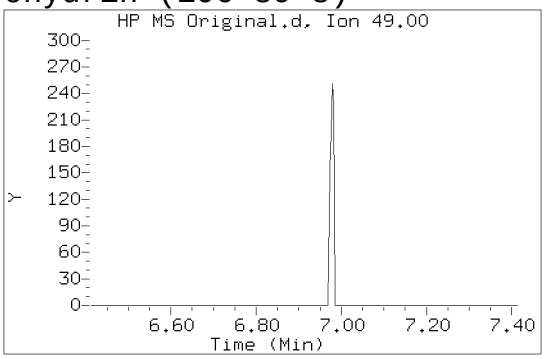
Inj Date : 15-JUN-2024 14:01
InstruID : voa7.i
LabSampID : VSTD00.5

Epichlorohydrin (106-89-8)

Reason Code:

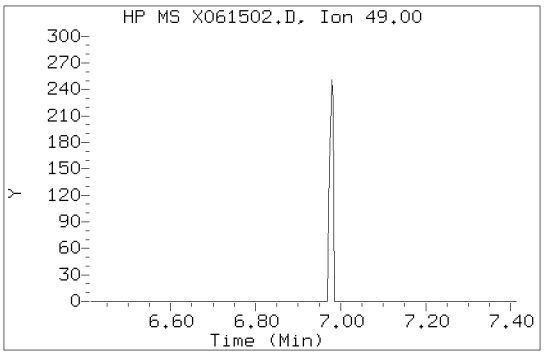
BEFORE

MASS
49
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
49
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

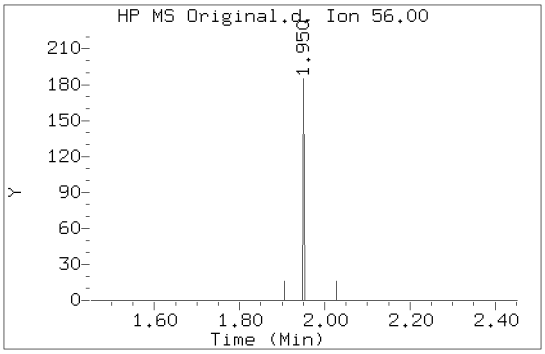


Isobutylene (115-11-7)

Reason Code:

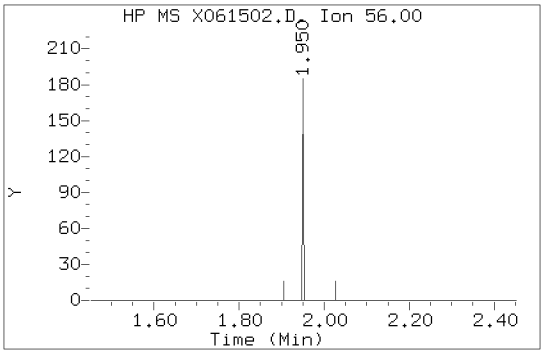
BEFORE

MASS
56
AREA
35
HEIGHT
185
12-Jul-2024
11:38
s
zaid



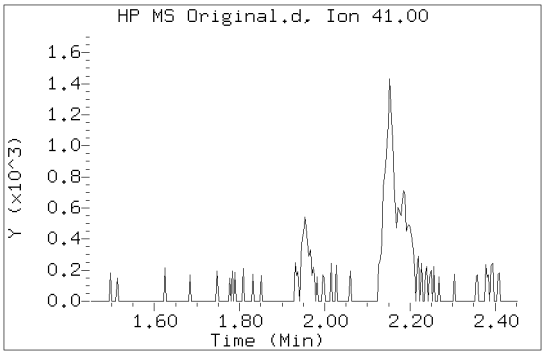
AFTER

MASS
56
AREA
35
HEIGHT
185
12-Jul-2024
11:38
s
zaid



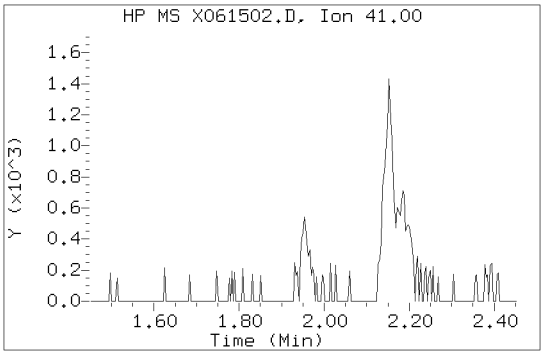
BEFORE

MASS
41
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



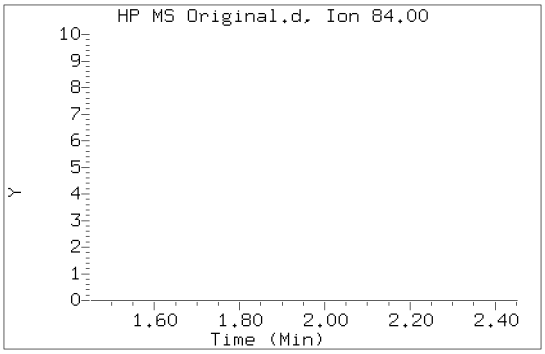
AFTER

MASS
41
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



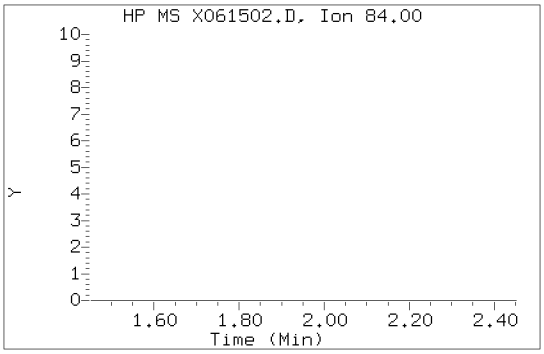
BEFORE

MASS
84
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
84
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



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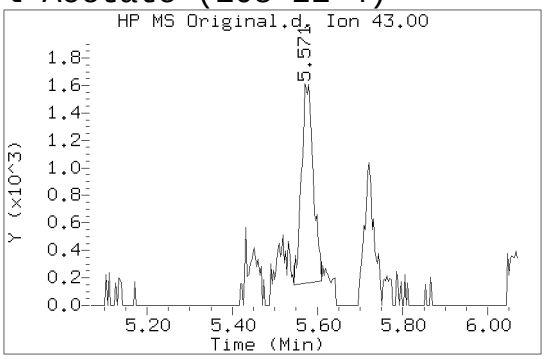
Inj Date : 15-JUN-2024 14:01
InstruID : voa7.i
LabSampID : VSTD00.5

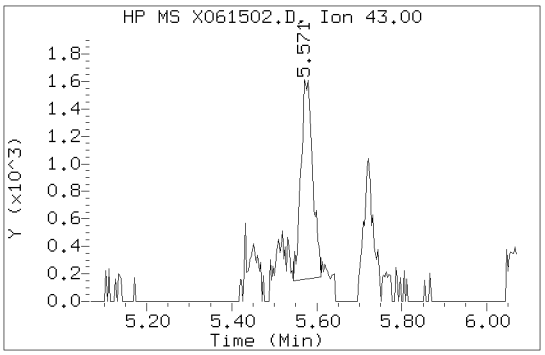
Isopropyl Acetate (108-21-4)

Reason Code:

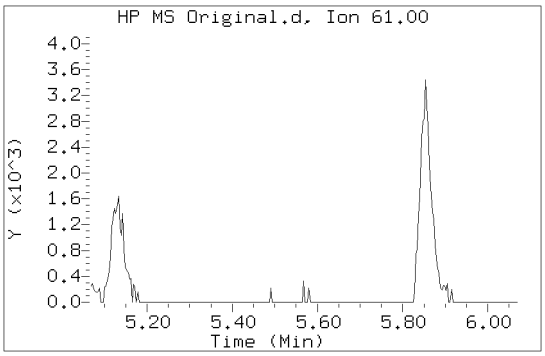
BEFORE
MASS
43
AREA
2765
HEIGHT
1452
12-Jul-2024
11:38
s
zaid



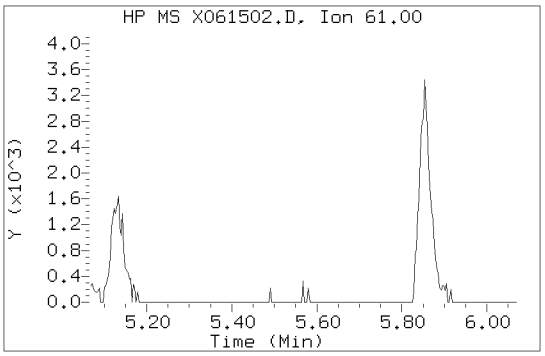
AFTER
MASS
43
AREA
2765
HEIGHT
1452
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
61
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



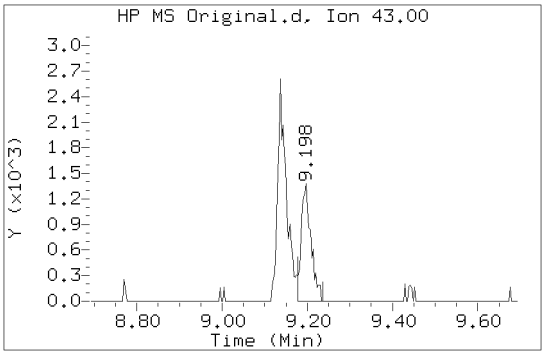
AFTER
MASS
61
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



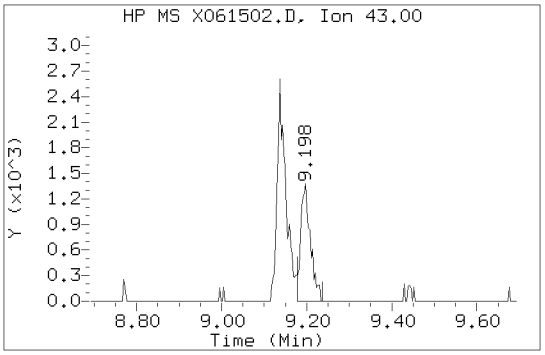
n-Amyl acetate (628-63-7)

Reason Code:

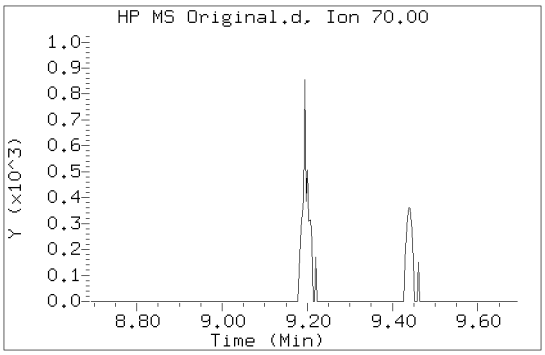
BEFORE
MASS
43
AREA
2202
HEIGHT
1380
12-Jul-2024
11:38
s
zaid



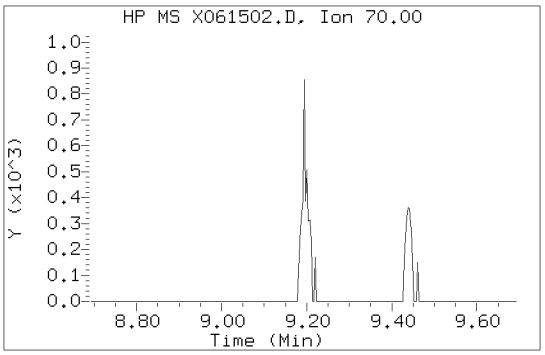
AFTER
MASS
43
AREA
2202
HEIGHT
1380
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
70
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER
MASS
70
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



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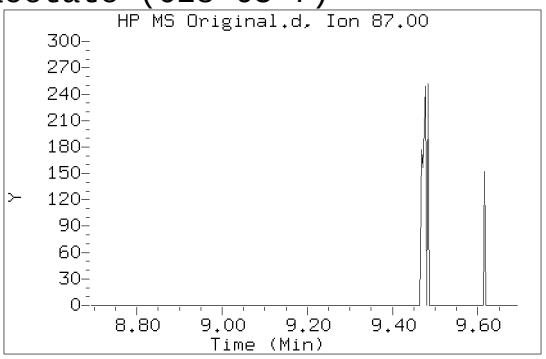
Inj Date : 15-JUN-2024 14:01
InstruID : voa7.i
LabSampID : VSTD00.5

n-Amyl acetate (628-63-7)

Reason Code:

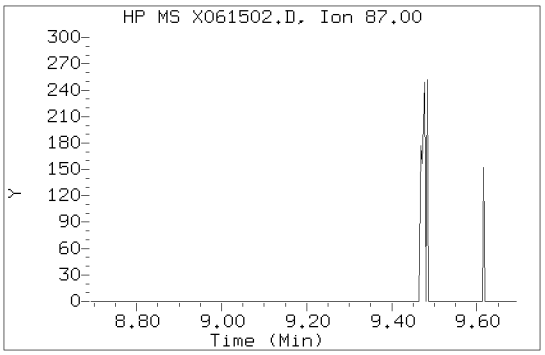
BEFORE

MASS
87
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
87
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

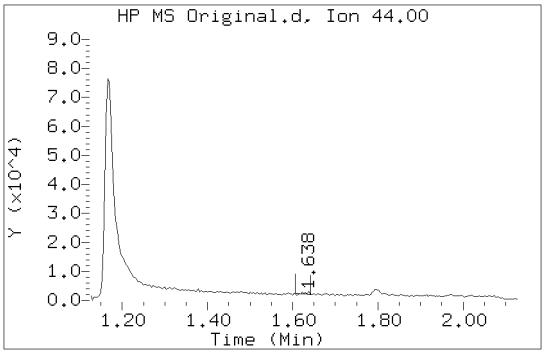


Acetaldehyde (75-07-0)

Reason Code:

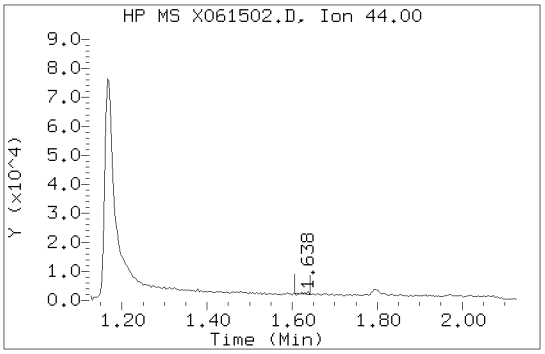
BEFORE

MASS
44
AREA
418
HEIGHT
998
12-Jul-2024
11:38
s
zaid



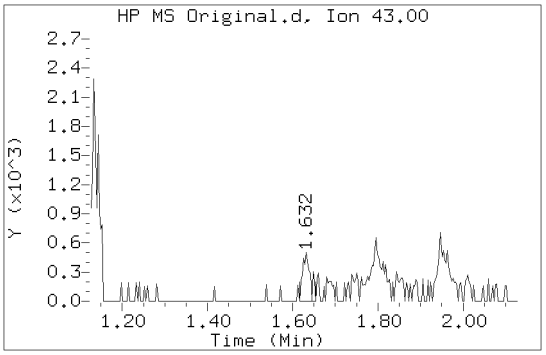
AFTER

MASS
44
AREA
418
HEIGHT
998
12-Jul-2024
11:38
s
zaid



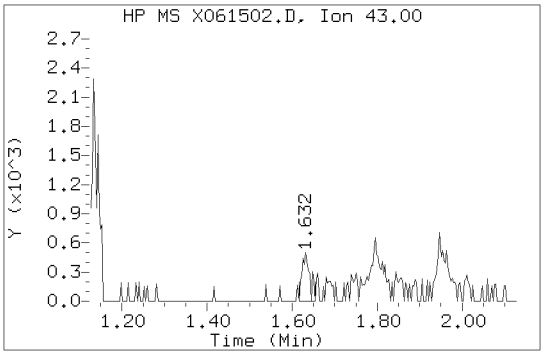
BEFORE

MASS
43
AREA
643
HEIGHT
500
12-Jul-2024
11:38
s
zaid



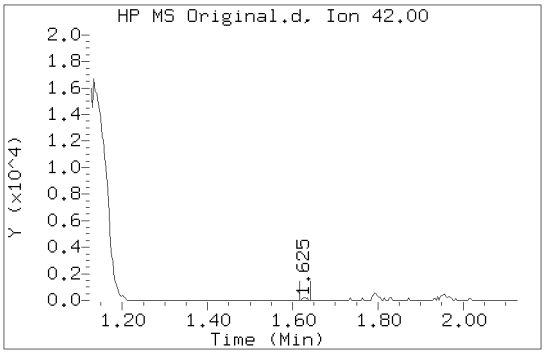
AFTER

MASS
43
AREA
643
HEIGHT
500
12-Jul-2024
11:38
s
zaid



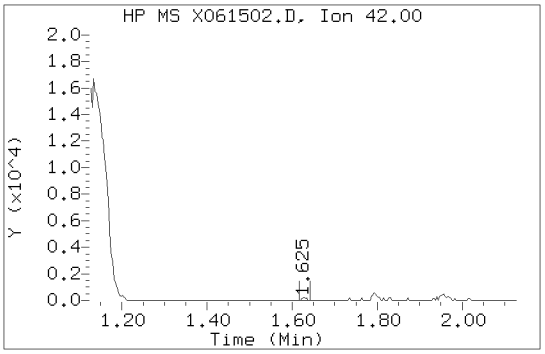
BEFORE

MASS
42
AREA
165
HEIGHT
204
12-Jul-2024
11:38
s
zaid



AFTER

MASS
42
AREA
165
HEIGHT
204
12-Jul-2024
11:38
s
zaid



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Inj Date : 15-JUN-2024 14:01
InstruID : voa7.i
LabSampID : VSTD00.5

n-Butyl acetate (123-86-4)

Reason Code:

BEFORE
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1382
12-Jul-2024
11:38
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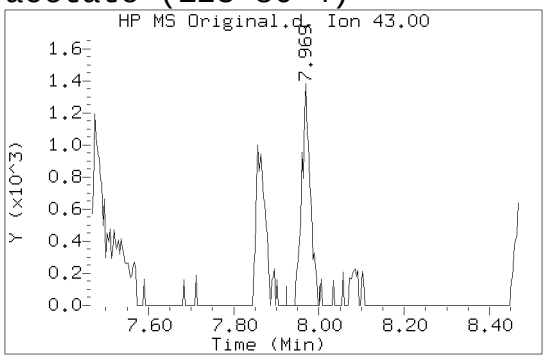

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HEIGHT
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11:38
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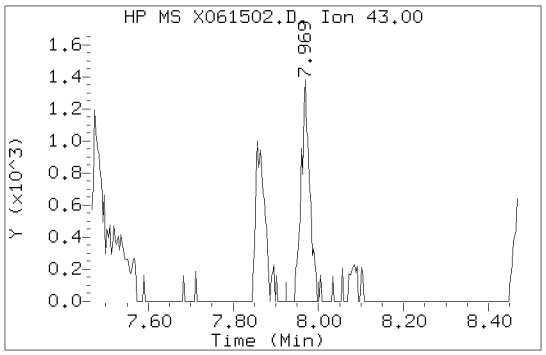

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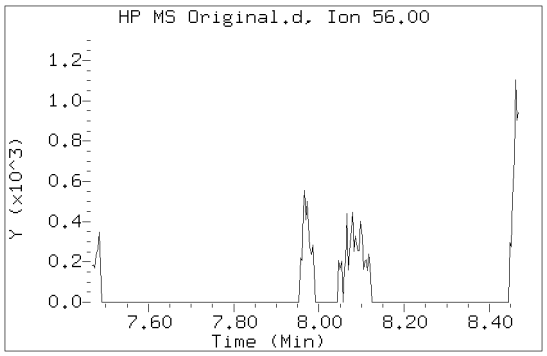

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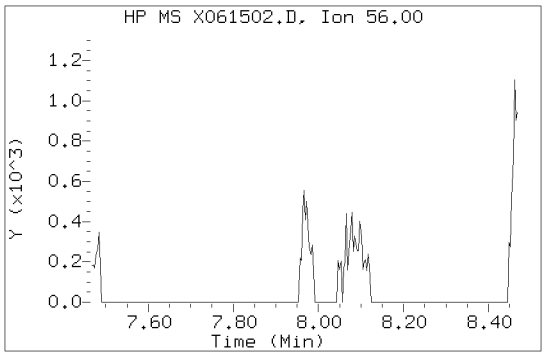

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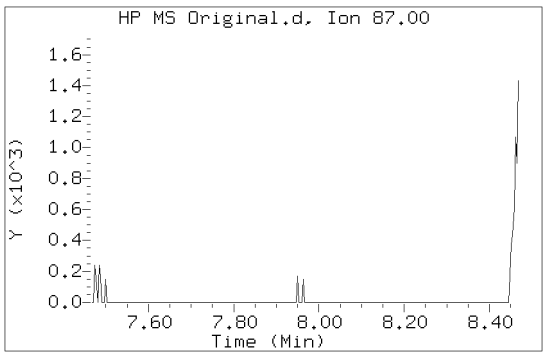

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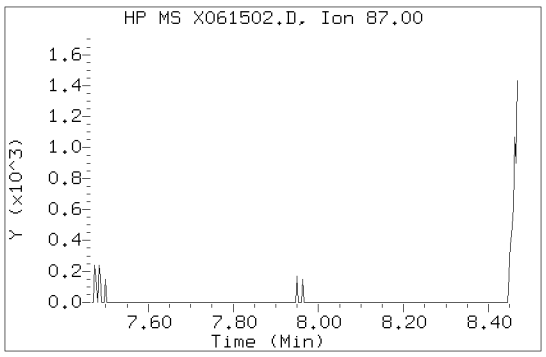

2-Etyhlhexyl Acrylate (103-11-7)

Reason Code:

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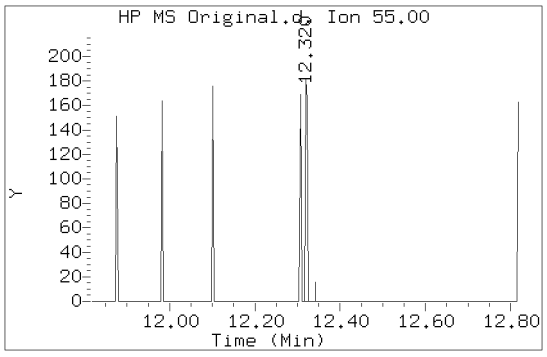

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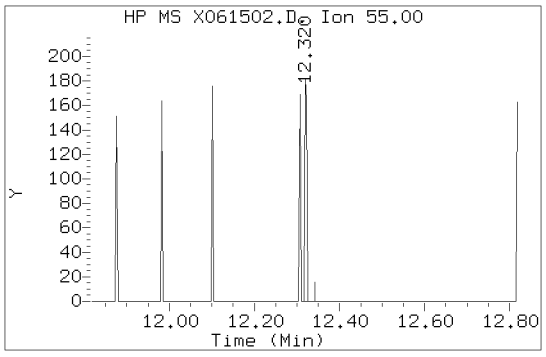

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Inj Date : 15-JUN-2024 14:01
InstruID : voa7.i
LabSampID : VSTD00.5

2-Etyhlhexyl Acrylate (103-11-7)

Reason Code:

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11:38
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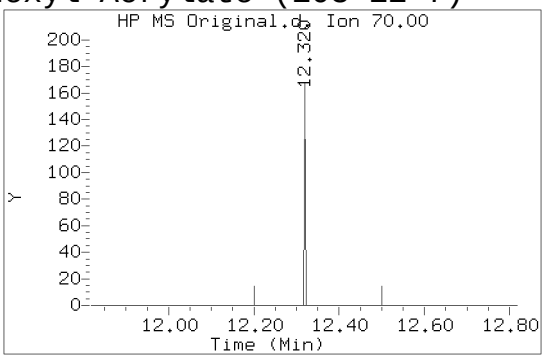

AFTER

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11:38
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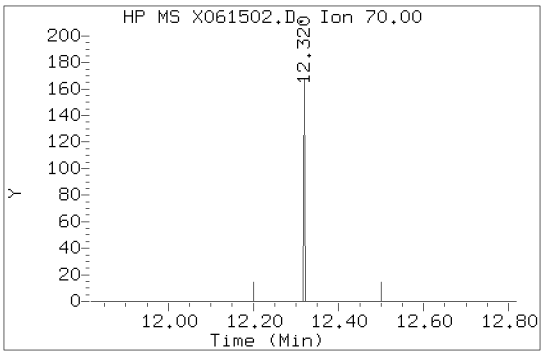

Tetrahydrothiophene (110-01-0)

Reason Code:

BEFORE

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11:38
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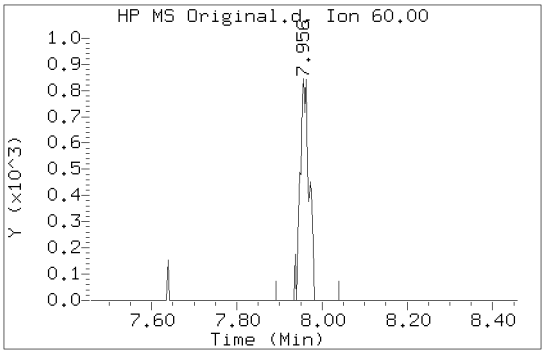
zaid



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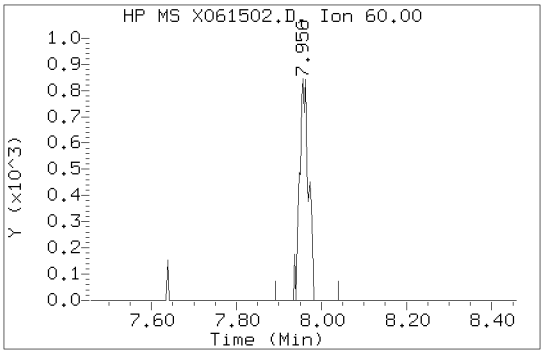

BEFORE

MASS
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AREA
858
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11:38
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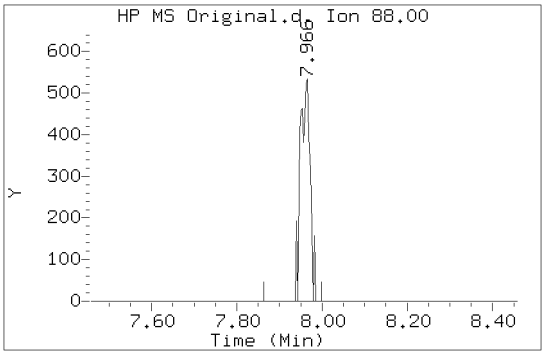
zaid



AFTER

MASS
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AREA
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534
12-Jul-2024
11:38
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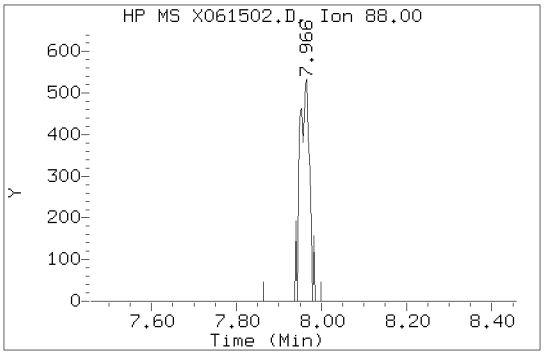

BEFORE

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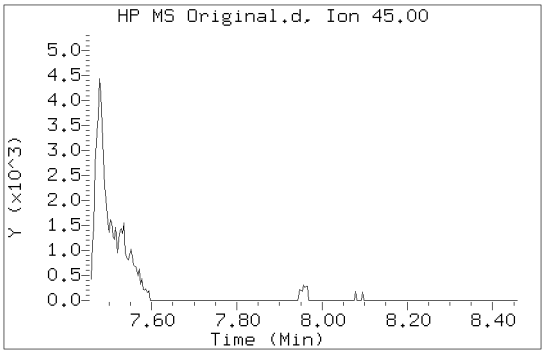

AFTER

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12-Jul-2024
11:38
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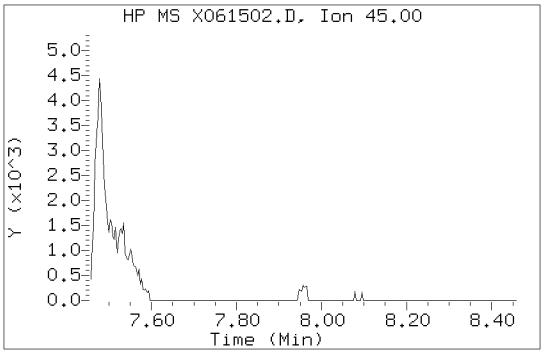

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Inj Date : 15-JUN-2024 14:01
InstruID : voa7.i
LabSampID : VSTD00.5

sec-Butyl Ether (6863-58-7)

Reason Code:

BEFORE
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AREA
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HEIGHT
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12-Jul-2024
11:38
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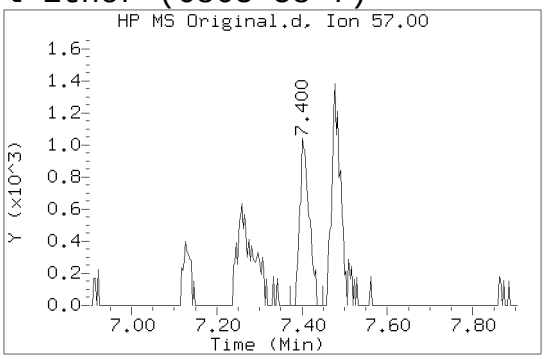
zaid



AFTER
MASS
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HEIGHT
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12-Jul-2024
11:38
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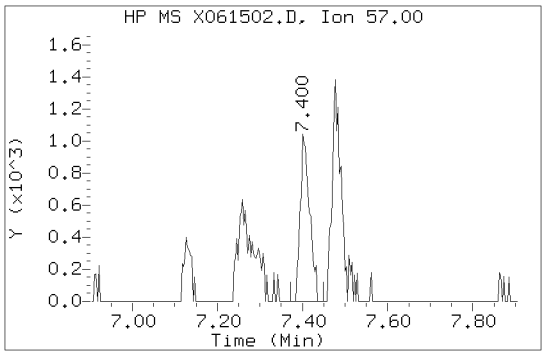

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12-Jul-2024
11:38
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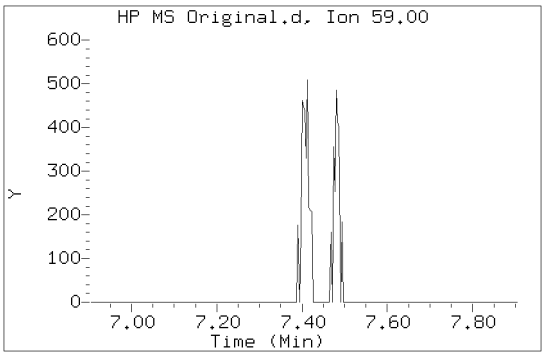

AFTER
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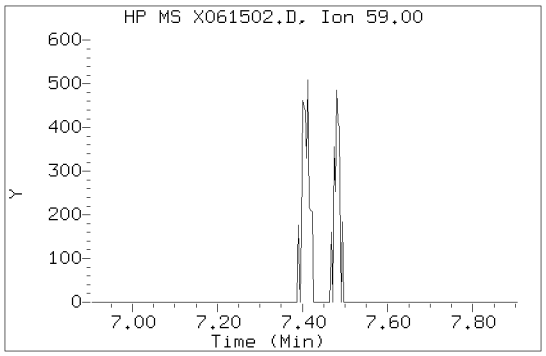

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11:38
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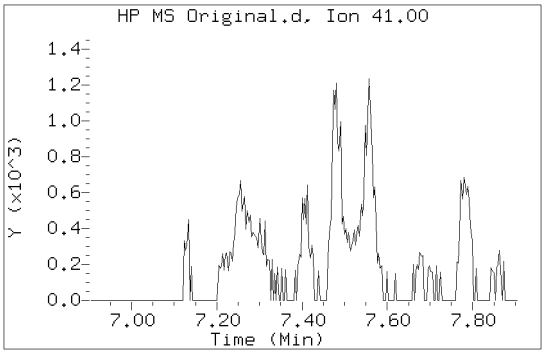

AFTER
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11:38
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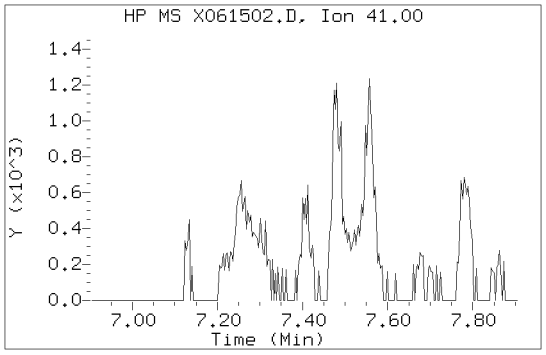

Isoprene (78-79-5)

Reason Code:

BEFORE
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11:38
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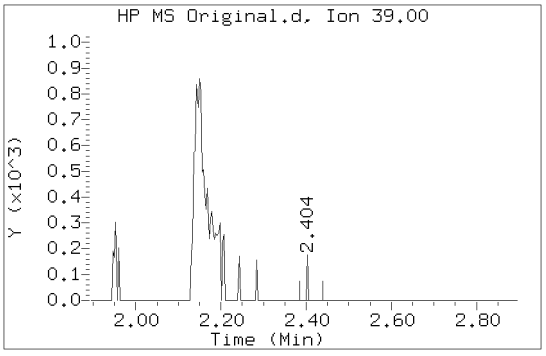

AFTER
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11:38
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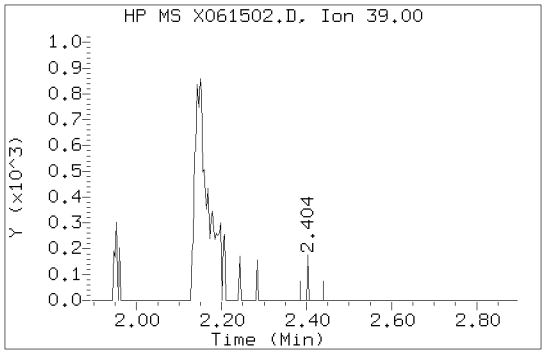

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Inj Date : 15-JUN-2024 14:01
InstruID : voa7.i
LabSampID : VSTD00.5

Isoprene (78-79-5)

Reason Code:

BEFORE

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11:38
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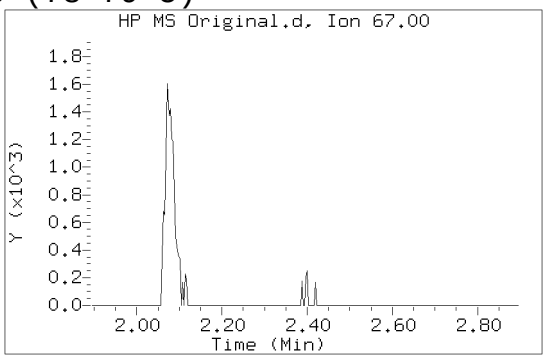

AFTER

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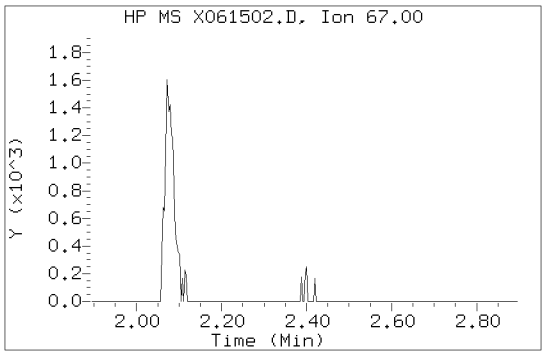

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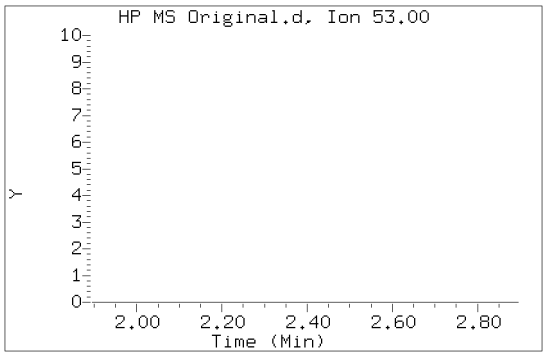

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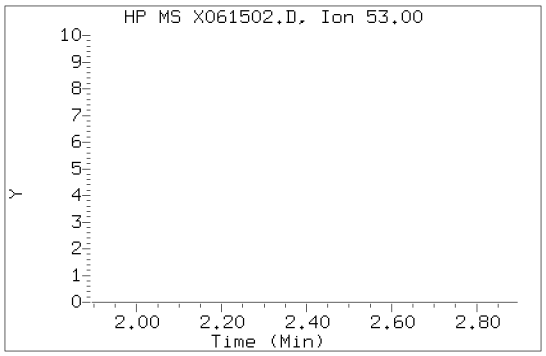

2-Chloropropene (557-98-2)

Reason Code:

BEFORE

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12-Jul-2024
11:38
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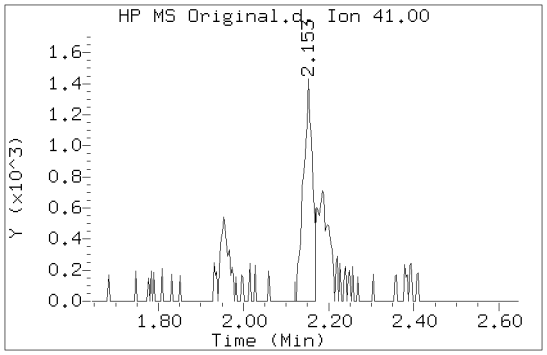

AFTER

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HEIGHT
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12-Jul-2024
11:38
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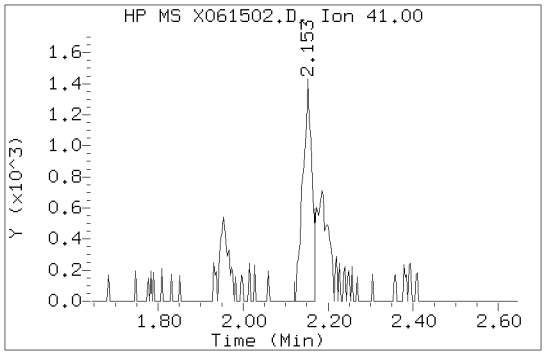
zaid



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061503.D Page 1
Report Date: 12-Jul-2024 11:38

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061503.D
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Inj Date : 15-JUN-2024 14:24
Operator : AP Inst ID: voa7.i
Smp Info : VSTD001;VSTD001;1;2
Misc Info : HS220328V7;WATER;0;1;
Comment   :
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Meth Date : 12-Jul-2024 11:38 voa7.i Quant Type: ISTD
Cal Date : 15-JUN-2024 14:01 Cal File: X061502.D
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

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)	122813	50.0000	
2	Dichlorodifluoromethane	85	1.294	1.294	(0.252)	945	1.00000	0.37(a)
159	Dichlorofluoromethane	67	2.072	2.072	(0.404)	2496	1.00000	0.97(aM)
3	Chloromethane	50	1.445	1.445	(0.282)	2511	1.00000	0.37(a)
5	Vinyl Chloride	62	1.535	1.535	(0.299)	1452	1.00000	0.70(a)
7	Chloroethane	64	1.901	1.901	(0.371)	994	1.00000	0.53(a)
11	1,1-Dichloroethene	96	2.589	2.589	(0.505)	872	1.00000	0.84(a)
12	Isobutyl Alcohol	43	5.573	5.573	(1.086)	5734	20.0000	9.97(a)
13	Acetonitrile	39	2.956	2.956	(0.576)	2072	10.0000	4.70(a)
15	Iodomethane	142	2.744	2.744	(0.535)	1727	2.00000	4.88(M)
16	Acrylonitrile	53	3.384	3.384	(0.660)	891	2.00000	1.15(a)
17	Methylene Chloride	84	3.097	3.097	(0.604)	3218	1.00000	0.48(a)
18	Methyl tert-butyl ether	73	3.390	3.390	(0.661)	3682	1.00000	1.33
19	Carbon Disulfide	76	2.795	2.795	(0.545)	7853	2.00000	1.45(a)
20	trans-1,2-Dichloroethene	96	3.377	3.377	(0.658)	1186	1.00000	0.63(a)
22	1,1-Dichloroethane	63	3.863	3.863	(0.753)	2823	1.00000	0.97(Ta)
23	Chloroprene	53	3.969	3.969	(0.774)	1900	1.00000	0.79(a)
24	2-Butanone	43	4.599	4.599	(0.897)	2851	2.00000	0.82(a)
25	Methacrylonitrile	41	2.149	2.149	(0.419)	1634	1.00000	0.79(a)
26	2,2-Dichloropropane	77	4.535	4.535	(0.884)	2018	1.00000	0.82(a)

27 cis-1,2-Dichloroethene	96	4.541	4.541 (0.885)	1560	1.00000	0.54(a)
28 Chloroform	83	4.901	4.901 (0.955)	3399	1.00000	0.52(a)

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061503.D Page 2
Report Date: 12-Jul-2024 11:38

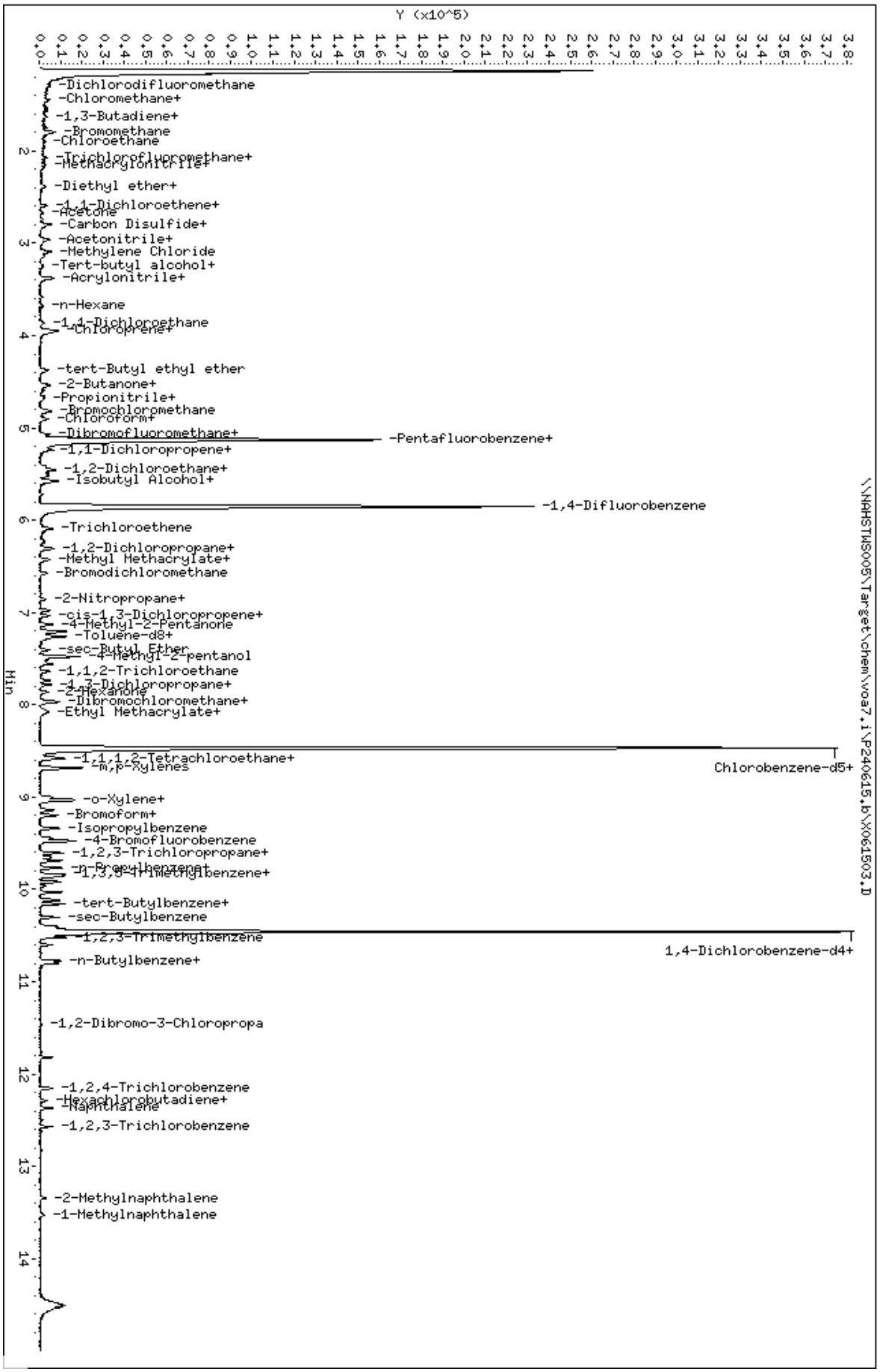
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	29 Bromochloromethane	128	4.805	4.805	(0.937)	808	1.00000	0.72(aM)
$	30 Dibromofluoromethane	113	5.075	5.075	(0.989)	1705	1.00000	0.24(a)
	31 1,1,1-Trichloroethane	97	5.072	5.072	(0.989)	1878	1.00000	0.80(a)
	32 1,1-Dichloropropene	75	5.236	5.236	(0.895)	1749	1.00000	1.00
	33 1,2-Dichloroethane	62	5.499	5.499	(0.940)	2750	1.00000	0.83(a)
	34 Carbon Tetrachloride	117	5.232	5.232	(0.894)	1790	1.00000	1.80
$	35 1,2-Dichloroethane-d4	65	5.419	5.419	(1.056)	2415	1.00000	0.56(a)
*	36 1,4-Difluorobenzene	114	5.853	5.853	(1.000)	201138	50.0000	
	37 Benzene	78	5.457	5.457	(0.932)	6318	1.00000	0.70(a)
	38 Trichloroethene	130	6.091	6.091	(1.041)	1475	1.00000	0.92(a)
	39 Bromodichloromethane	83	6.573	6.573	(1.123)	2334	1.00000	1.04(M)
	41 2-Chloroethylvinyl ether	63	6.853	6.853	(1.171)	1519	2.00000	1.42(aM)
	42 1,2-Dichloropropane	63	6.309	6.309	(1.078)	1795	1.00000	0.74(a)
	43 2-Nitropropane	43	6.801	6.801	(1.326)	593	1.00000	1.68(a)
	44 Dibromomethane	93	6.428	6.428	(1.098)	1021	1.00000	1.11
	45 4-Methyl-2-Pentanone	43	7.129	7.129	(0.842)	4091	2.00000	1.06(a)
	46 cis-1,3-Dichloropropene	75	6.975	6.975	(1.192)	2713	1.00000	1.64
*	47 Chlorobenzene-d5	117	8.467	8.467	(1.000)	190741	50.0000	
$	48 Toluene-d8	98	7.207	7.207	(0.851)	8117	1.00000	0.38(a)
	49 Ethyl Methacrylate	69	8.078	8.078	(1.380)	2257	1.00000	1.35
	50 Toluene	91	7.264	7.264	(0.858)	6541	1.00000	0.54(a)
	51 trans-1,3-Dichloropropene	75	6.975	6.975	(1.192)	2713	1.00000	1.64
	53 1,1,2-Trichloroethane	83	7.637	7.637	(0.902)	1325	1.00000	0.41(a)
	54 1,3-Dichloropropane	76	7.779	7.779	(0.919)	3036	1.00000	0.59(a)
	55 Dibromochloromethane	129	7.972	7.972	(0.942)	1658	1.00000	1.06
	56 Tetrachloroethene	164	7.737	7.737	(0.914)	913	1.00000	0.76(a)
	57 1,2-Dibromoethane	107	8.071	8.071	(0.953)	1535	1.00000	0.47(a)
	59 Chlorobenzene	112	8.493	8.493	(1.003)	4359	1.00000	0.52(a)
	60 1,1,1,2-Tetrachloroethane	131	8.563	8.563	(1.011)	1575	1.00000	1.64
	61 Ethylbenzene	106	8.589	8.589	(1.014)	1961	1.00000	0.50(a)
	62 m,p-Xylenes	106	8.682	8.682	(1.025)	5521	2.00000	1.23(a)
	63 o-Xylene	106	9.020	9.020	(1.065)	2749	1.00000	0.46(a)
	64 Styrene	104	9.039	9.039	(1.068)	4857	1.00000	0.59(a)
	66 Bromoform	173	9.206	9.206	(1.087)	1015	1.00000	1.03(T)
	67 Isopropylbenzene	105	9.335	9.335	(1.103)	6133	1.00000	0.71(a)
	68 1,1,2,2-Tetrachloroethane	83	9.605	9.605	(0.919)	2231	1.00000	0.72(aM)
$	69 4-Bromofluorobenzene	95	9.470	9.470	(1.118)	5645	1.00000	1.21
*	70 1,4-Dichlorobenzene-d4	152	10.457	10.457	(1.000)	90448	50.0000	
	71 1,2,3-Trichloropropane	75	9.650	9.650	(0.923)	2623	1.00000	0.94(a)
	72 trans-1,4-Dichloro-2-butene	53	9.657	9.657	(1.140)	625	1.00000	1.67
	73 n-Propylbenzene	91	9.689	9.689	(0.926)	7684	1.00000	1.15
	74 Bromobenzene	156	9.602	9.602	(0.918)	1940	1.00000	1.12
	75 1,3,5-Trimethylbenzene	105	9.837	9.837	(0.941)	5830	1.00000	1.40
	76 2-Chlorotoluene	91	9.766	9.766	(0.934)	5439	1.00000	0.86(a)
	77 4-Chlorotoluene	91	9.856	9.856	(0.943)	6290	1.00000	1.03
	78 tert-Butylbenzene	119	10.110	10.110	(0.967)	4454	1.00000	0.88(a)
	79 1,2,4-Trimethylbenzene	105	10.158	10.158	(0.971)	5961	1.00000	1.10
	81 sec-Butylbenzene	105	10.300	10.300	(0.985)	5578	1.00000	1.19
	82 p-Isopropyltoluene	119	10.425	10.425	(0.997)	5195	1.00000	1.21
	83 1,3-Dichlorobenzene	146	10.406	10.406	(0.995)	3358	1.00000	1.11
	84 1,4-Dichlorobenzene	146	10.476	10.476	(1.002)	3741	1.00000	0.92(a)
	87 n-Butylbenzene	91	10.769	10.769	(1.030)	4888	1.00000	1.02

88	1,2-Dichlorobenzene	146	10.801	10.801 (1.033)	3305	1.00000	1.07
89	1,2-Dibromo-3-Chloropropane	75	11.467	11.467 (1.097)	284	1.00000	1.06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
90	1,2,4-Trichlorobenzene	180	12.155	12.155	(1.162)	2045	1.00000	1.99
91	Hexachlorobutadiene	225	12.287	12.287	(1.175)	674	1.00000	1.53
92	Naphthalene	128	12.370	12.370	(1.183)	4235	1.00000	1.09
93	1,2,3-Trichlorobenzene	182	12.570	12.570	(1.202)	1577	1.00000	1.11
146	Methyl acetate	43	2.814	2.814	(0.549)	346	1.00000	(aM)
138	Freon TF	101	2.586	2.586	(0.504)	573	1.00000	0.75(Ta)
139	Diethyl ether	59	2.377	2.377	(0.463)	965	1.00000	1.07
140	1,3-Butadiene	54	1.557	1.557	(0.304)	586	1.00000	1.46(a)
141	Cyclohexane	56	5.123	5.123	(0.999)	3665	1.00000	1.04(a)
147	Methylcyclohexane	83	6.252	6.252	(1.068)	447	1.00000	2.24(M)
133	Ethyl Acrylate	55	6.229	6.229	(1.214)	3026	1.00000	0.87(aM)
136	n-Hexane	57	3.679	3.679	(0.717)	594	1.00000	1.10
142	Tetrahydrofuran	42	4.872	4.872	(0.950)	607	2.00000	4.08(M)
148	Tert-butyl alcohol	59	3.255	3.255	(0.635)	2070	20.0000	22.83
151	4-Methyl-2-pentanol	45	7.477	7.477	(0.883)	10862	20.0000	15.50(a)
166	1,2,3-Trimethylbenzene	105	10.518	10.518	(1.006)	5701	1.00000	1.22
173	3,3-Dimethyl-1-butanol	57	8.062	8.062	(0.952)	3141	20.0000	29.75(M)
174	tert-Amyl methyl ether	73	5.576	5.576	(1.087)	4784	1.00000	1.10
175	tert-Butyl ethyl ether	59	4.377	4.377	(0.853)	4050	1.00000	0.96(a)
157	2-Methylnaphthalene	142	13.345	13.345	(1.276)	1457	1.00000	1.03
156	Diisopropyl ether	45	3.953	3.953	(0.771)	4669	1.00000	0.95(Ta)
171	1-Methylnaphthalene	142	13.531	13.531	(1.294)	1422	1.00000	1.13
130	Ethyl Acetate	43	3.943	3.943	(0.769)	10732	1.00000	1.39(aM)
176	tert-Amyl alcohol	59	5.515	5.515	(1.075)	2244	20.0000	6.84
160	Epichlorohydrin	57	6.907	6.907	(1.180)	318	4.00000	4.96
161	Butyl acrylate	55	9.001	9.001	(1.063)	3946	1.00000	1.46(a)
183	Isopropyl Acetate	43	5.573	5.573	(0.952)	4776	1.00000	0.59(aA)
184	n-Amyl acetate	43	9.190	9.190	(1.085)	4173	1.00000	1.86(aAM)
185	Acetaldehyde	44	1.628	1.628	(0.317)	1282	4.00000	2.32(aAM)
186	n-Butyl acetate	43	7.969	7.969	(0.941)	3629	1.00000	0.75(aAM)
187	2-Etyhlhexyl Acrylate	55	12.316	12.316	(1.178)	362	1.00000	3.78(aAM)
188	Tetrahydrothiophene	60	7.956	7.956	(0.940)	1726	1.00000	0.98(aAM)
189	sec-Butyl Ether	57	7.412	7.412	(0.875)	1835	1.00000	(aM)
190	Isoprene	39	2.400	2.400	(0.468)	194	1.00000	0.87(aAM)
191	2-Chloropropene	41	2.149	2.149	(0.419)	2312	1.00000	1.09(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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Sample Info: VSTD001;VSTD001;1;2
Purge Volume: 5.0
Column phase: DB624

Instrument: voa7,i
Operator: AP
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061503.D
Inj Date : 15-JUN-2024 14:24
InstruID : voa7.i
LabSampID : VSTD001

Iodomethane (74-88-4)

Reason Code:

BEFORE
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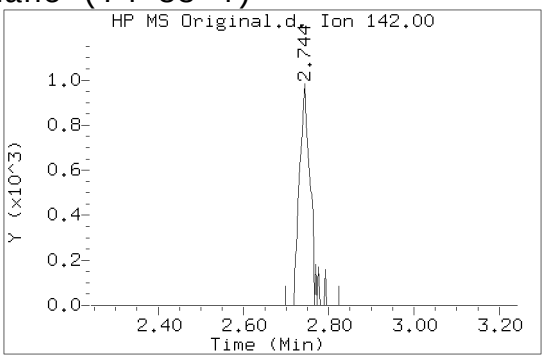
142
AREA
1727
HEIGHT
984
12-Jul-2024
11:38
s
zaid



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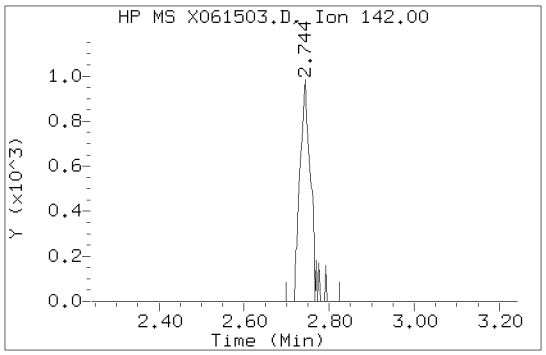

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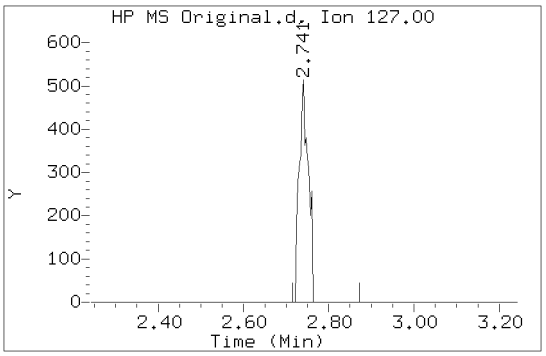

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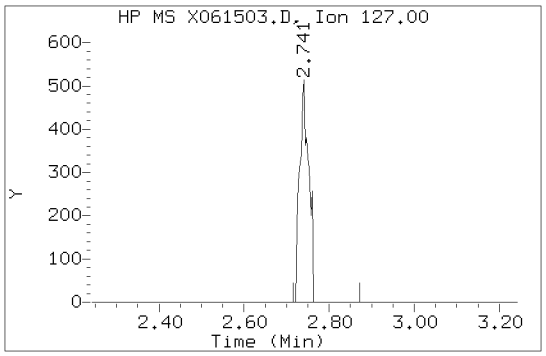

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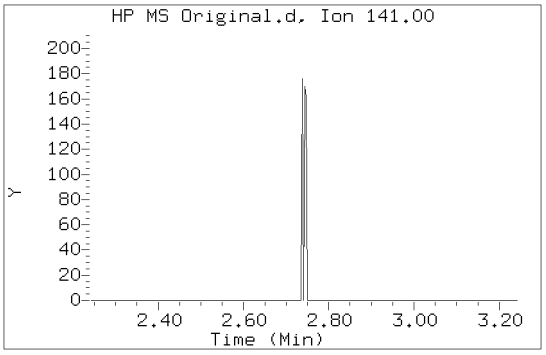

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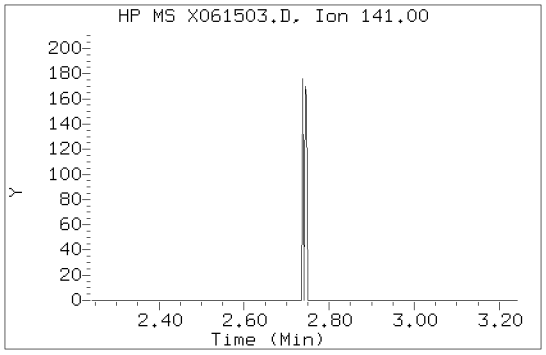

Bromochloromethane (74-97-5)

Reason Code:

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808
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11:38
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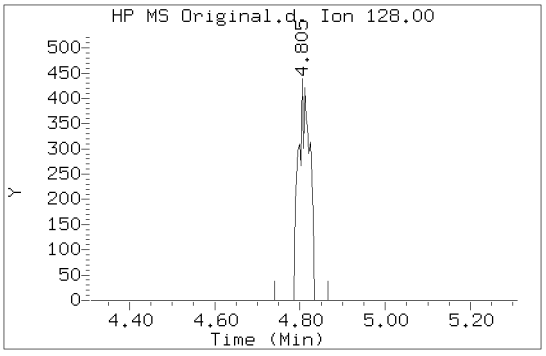

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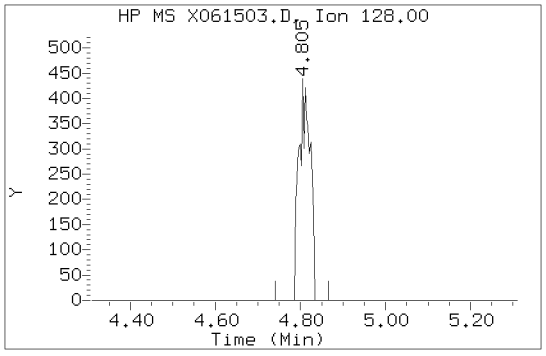

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InstruID : voa7.i
LabSampID : VSTD001

Bromochloromethane (74-97-5)

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908
12-Jul-2024
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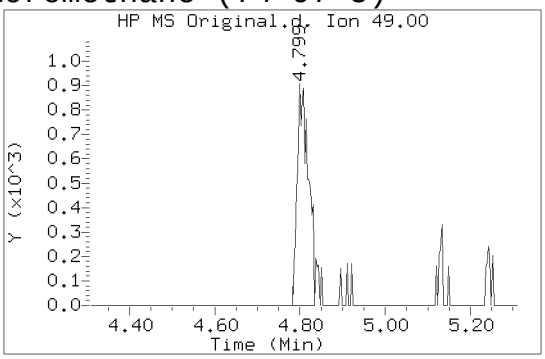

Reason Code:

AFTER
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49
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12-Jul-2024
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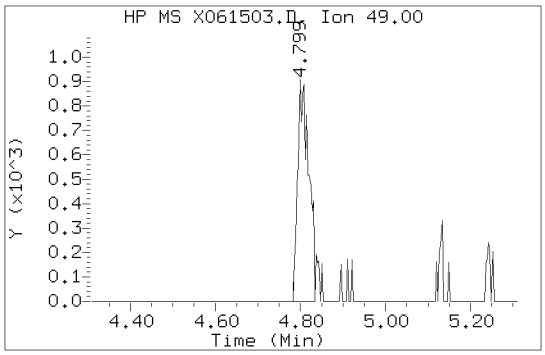

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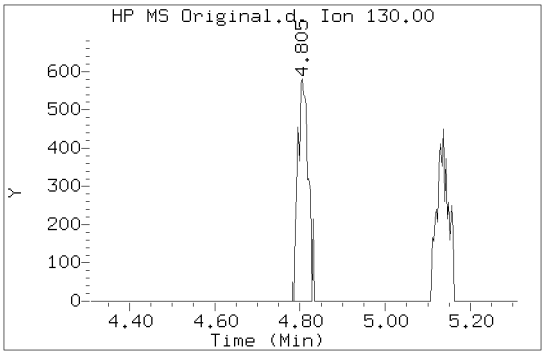

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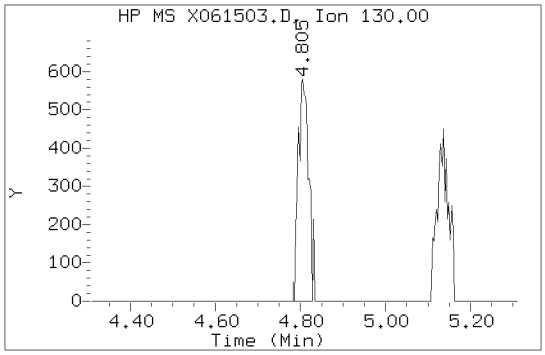

3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

BEFORE
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HEIGHT
784
12-Jul-2024
11:38
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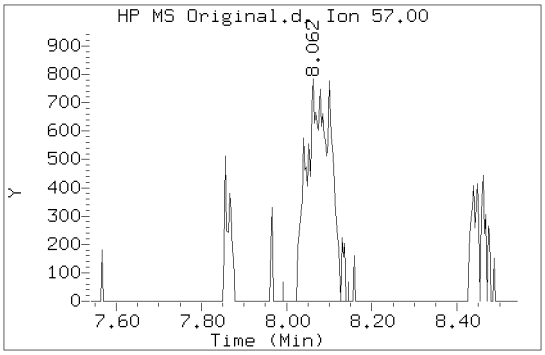

AFTER
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12-Jul-2024
11:38
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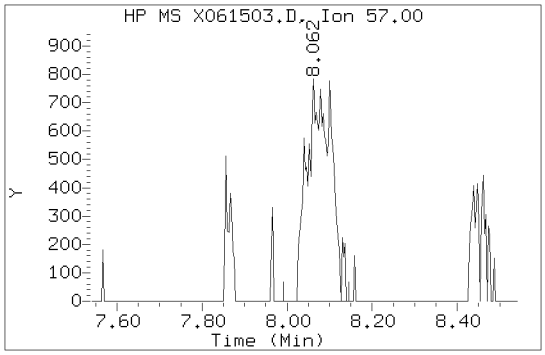

BEFORE
MASS
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12-Jul-2024
11:38
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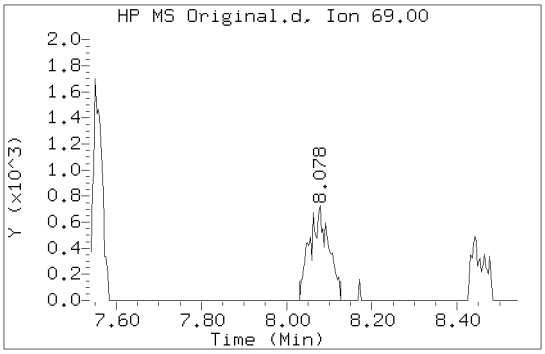

AFTER
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12-Jul-2024
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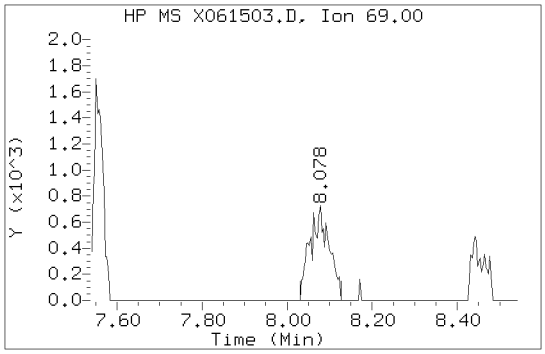

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Inj Date : 15-JUN-2024 14:24
InstruID : voa7.i
LabSampID : VSTD001

3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

BEFORE

MASS
56
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HEIGHT
454
12-Jul-2024
11:38
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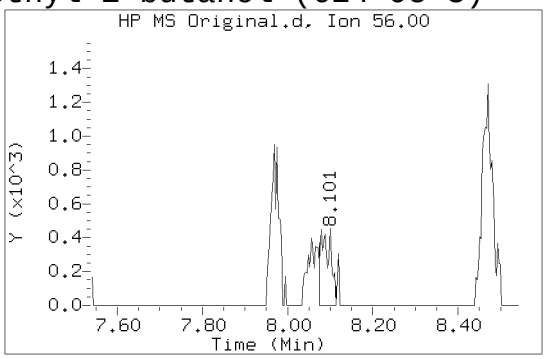

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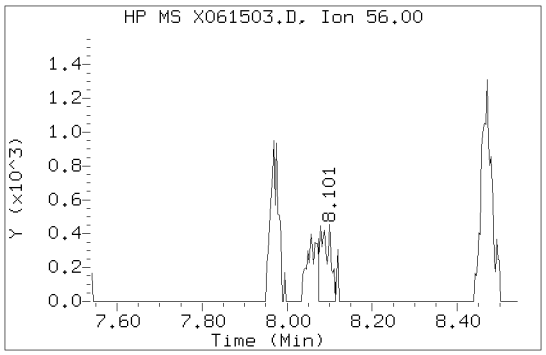

Bromodichloromethane (75-27-4)

Reason Code:

BEFORE

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12-Jul-2024
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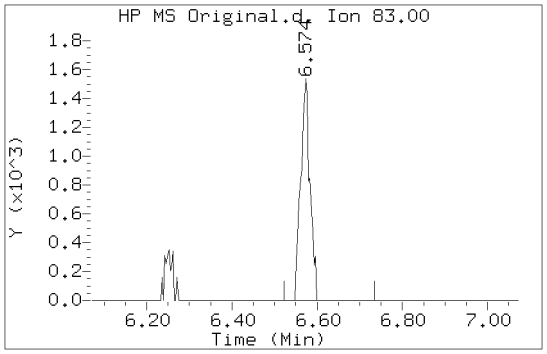

AFTER

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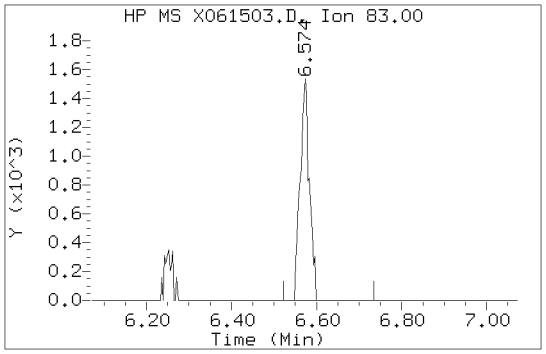

BEFORE

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1560
HEIGHT
957
12-Jul-2024
11:38
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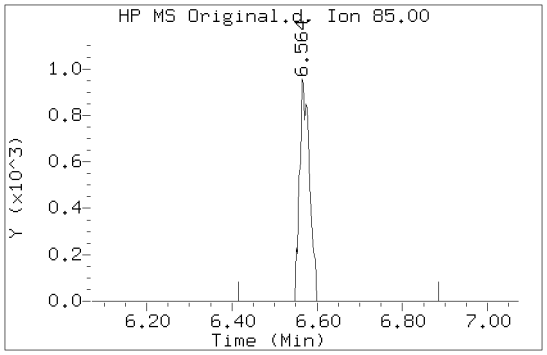

AFTER

MASS
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AREA
1560
HEIGHT
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12-Jul-2024
11:38
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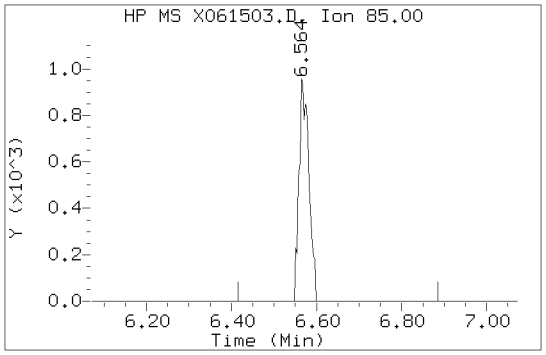

BEFORE

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11:38
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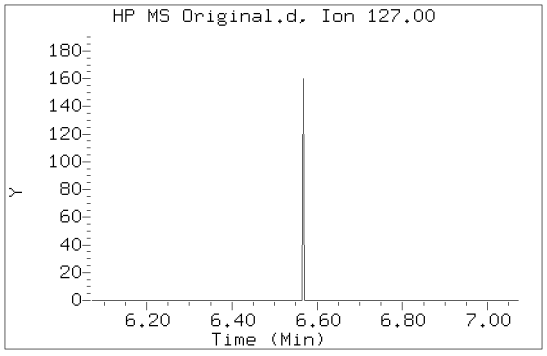

AFTER

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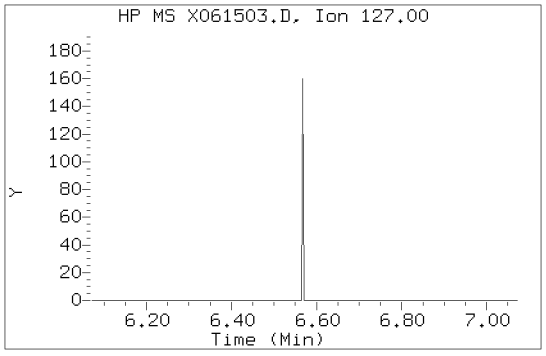

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Inj Date : 15-JUN-2024 14:24
InstruID : voa7.i
LabSampID : VSTD001

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

BEFORE
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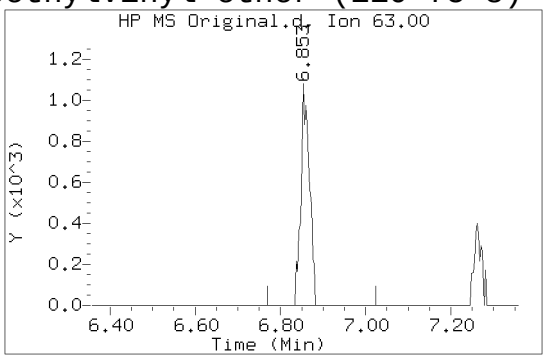
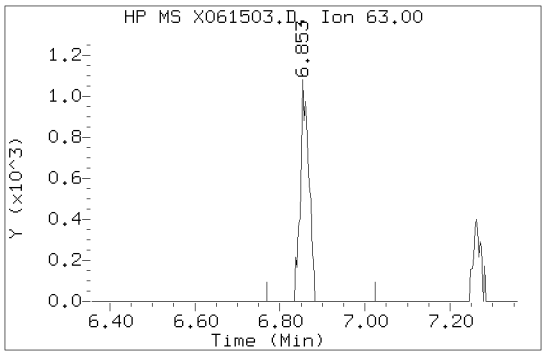
HEIGHT
1080
12-Jul-2024
11:38
s
zaid



AFTER
MASS
63
AREA
1519
HEIGHT
1080
12-Jul-2024
11:38
s
zaid



BEFORE
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65
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HEIGHT
0
12-Jul-2024
11:38
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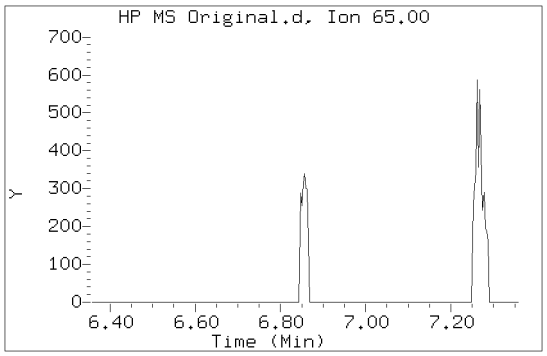

AFTER
MASS
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AREA
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HEIGHT
0
12-Jul-2024
11:38
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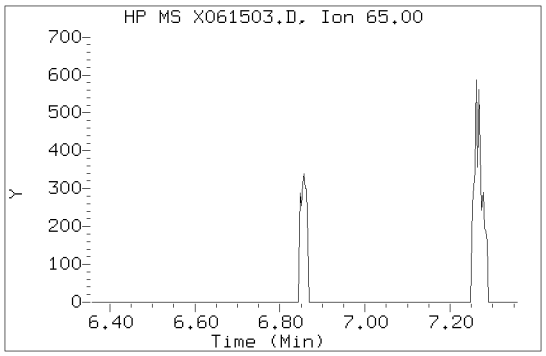
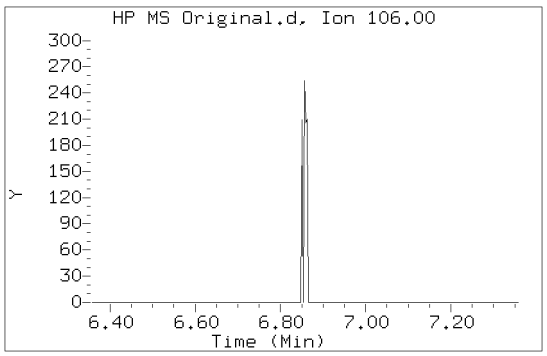
zaid



BEFORE
MASS
106
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER
MASS
106
AREA
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HEIGHT
0
12-Jul-2024
11:38
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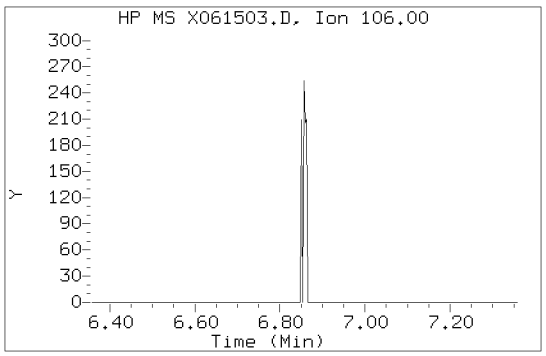
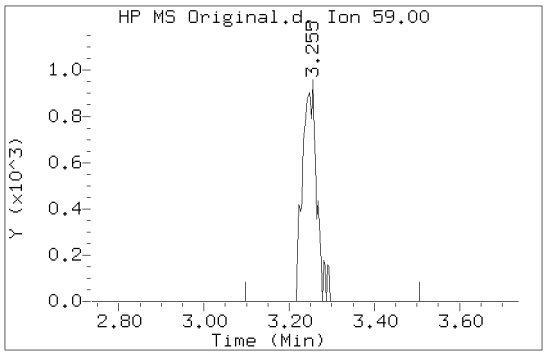
zaid



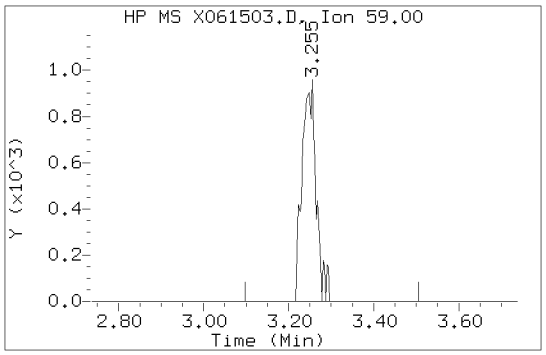
tert-Butyl formate (762-75-4)

Reason Code:

BEFORE
MASS
59
AREA
2194
HEIGHT
959
12-Jul-2024
11:38
s
zaid



AFTER
MASS
59
AREA
2194
HEIGHT
959
12-Jul-2024
11:38
s
zaid



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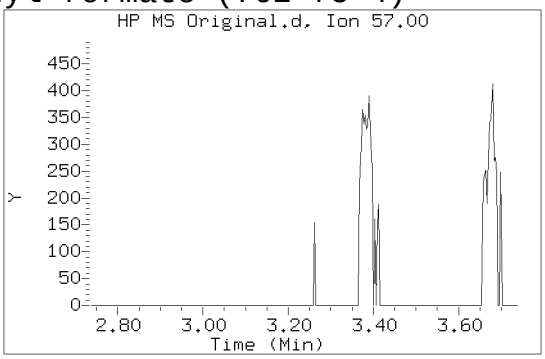
Inj Date : 15-JUN-2024 14:24
InstruID : voa7.i
LabSampID : VSTD001

tert-Butyl formate (762-75-4)

Reason Code:

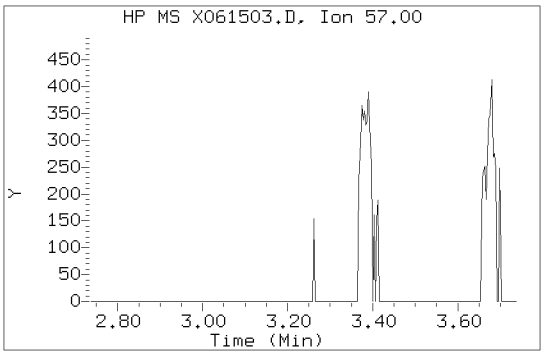
BEFORE

MASS
57
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
57
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



BEFORE

MASS
41
AREA
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HEIGHT
0
12-Jul-2024
11:38
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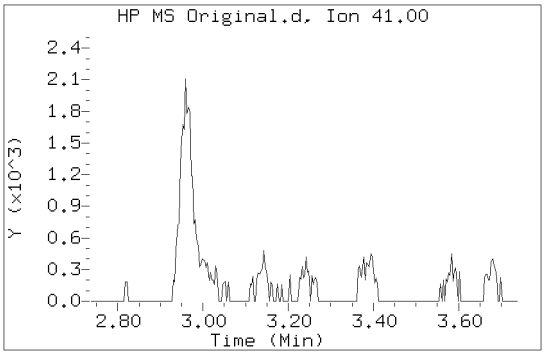
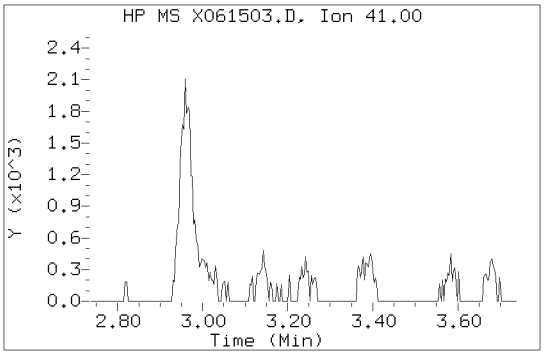
zaid



AFTER

MASS
41
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

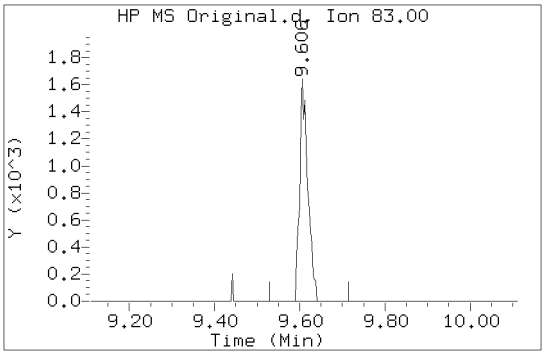


1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

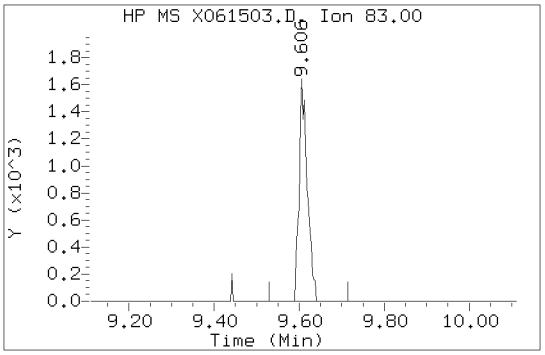
BEFORE

MASS
83
AREA
2231
HEIGHT
1643
12-Jul-2024
11:38
s
zaid



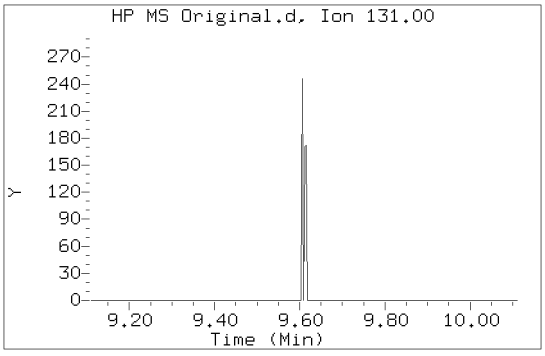
AFTER

MASS
83
AREA
2231
HEIGHT
1643
12-Jul-2024
11:38
s
zaid



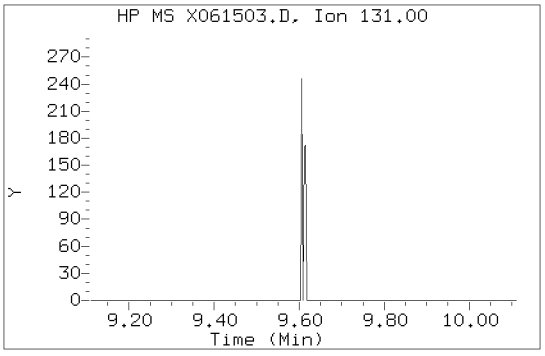
BEFORE

MASS
131
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
131
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



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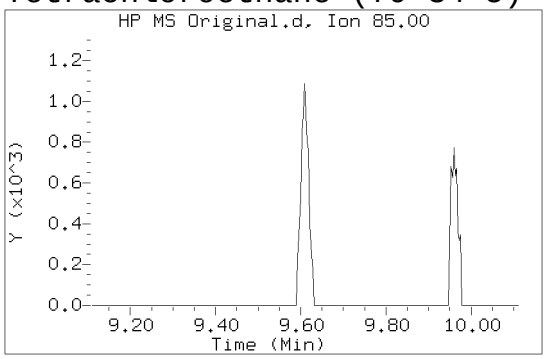
Inj Date : 15-JUN-2024 14:24
InstruID : voa7.i
LabSampID : VSTD001

1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

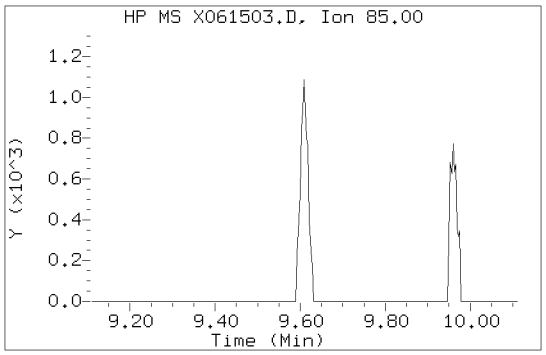
BEFORE

MASS
85
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
85
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

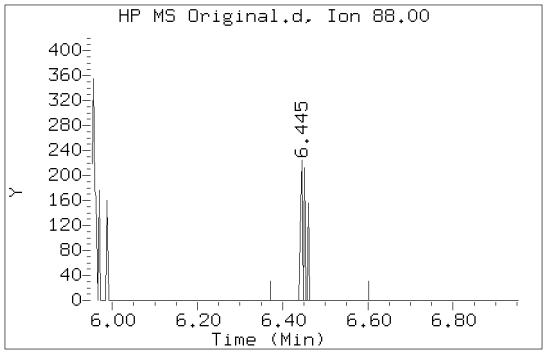


1,4-Dioxane ()

Reason Code:

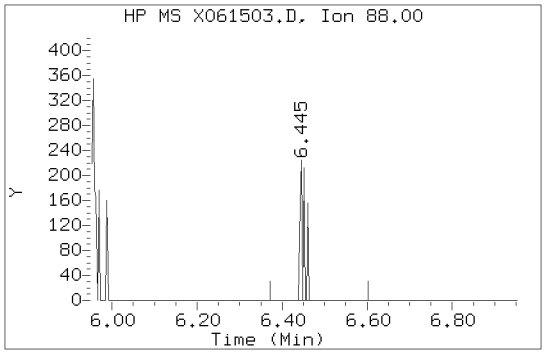
BEFORE

MASS
88
AREA
143
HEIGHT
225
12-Jul-2024
11:38
s
zaid



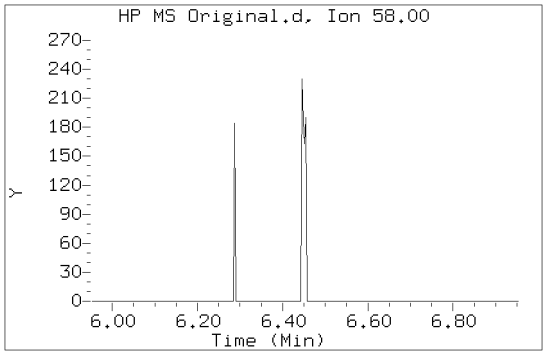
AFTER

MASS
88
AREA
143
HEIGHT
225
12-Jul-2024
11:38
s
zaid



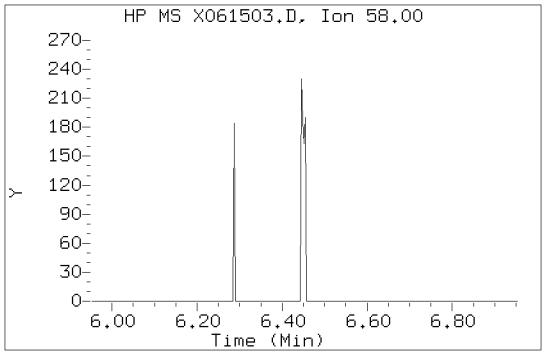
BEFORE

MASS
58
AREA
545
HEIGHT
368
12-Jul-2024
11:38
s
zaid



AFTER

MASS
58
AREA
545
HEIGHT
368
12-Jul-2024
11:38
s
zaid

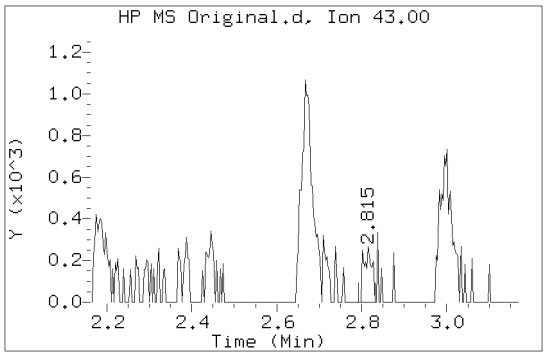


Methyl acetate (79-20-9)

Reason Code:

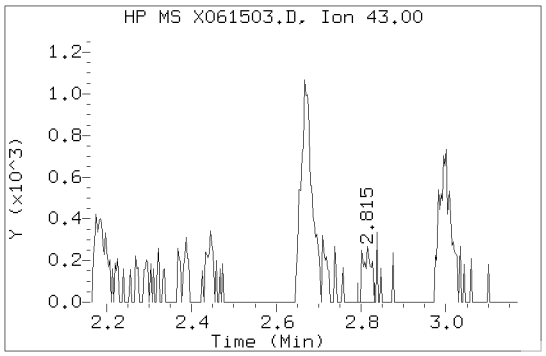
BEFORE

MASS
43
AREA
346
HEIGHT
268
12-Jul-2024
11:38
s
zaid



AFTER

MASS
43
AREA
346
HEIGHT
268
12-Jul-2024
11:38
s
zaid



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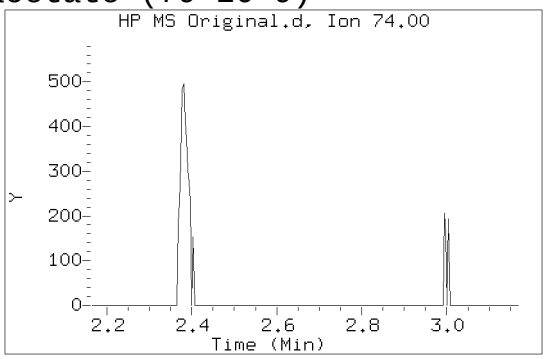
Inj Date : 15-JUN-2024 14:24
InstruID : voa7.i
LabSampID : VSTD001

Methyl acetate (79-20-9)

Reason Code:

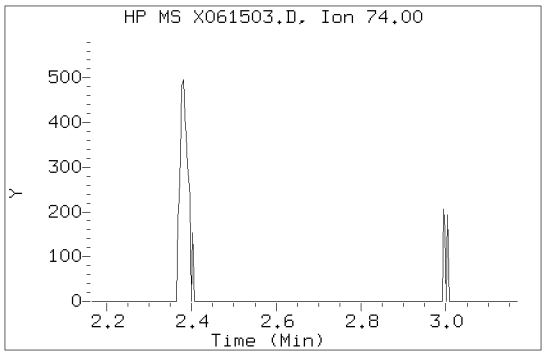
BEFORE

MASS
74
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
74
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

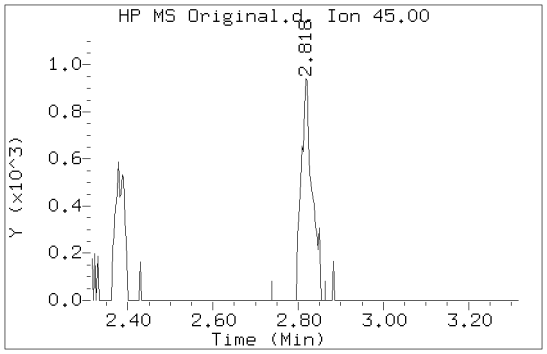


Isopropyl alcohol (67-63-0)

Reason Code:

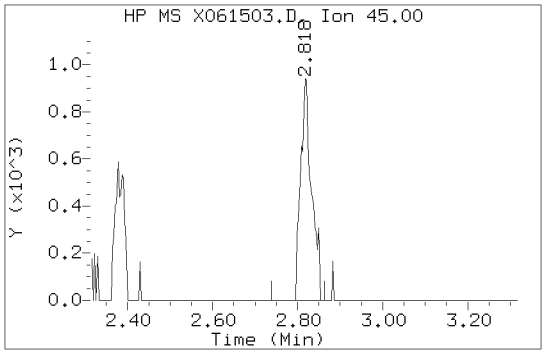
BEFORE

MASS
45
AREA
1689
HEIGHT
941
12-Jul-2024
11:38
s
zaid



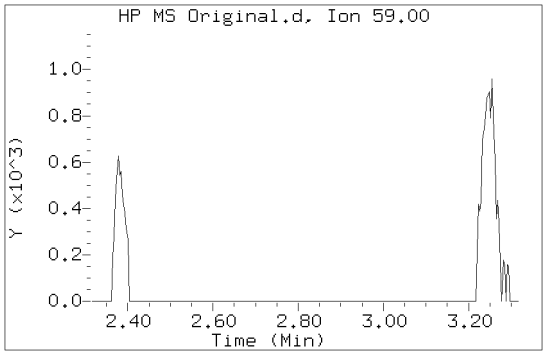
AFTER

MASS
45
AREA
1689
HEIGHT
941
12-Jul-2024
11:38
s
zaid



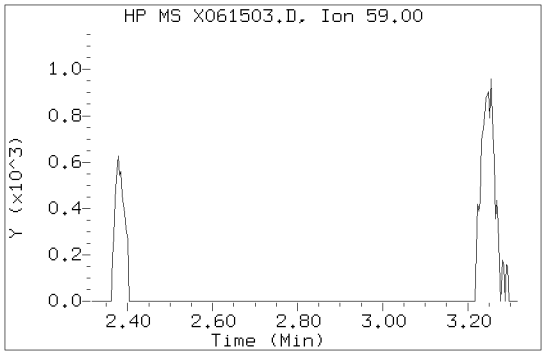
BEFORE

MASS
59
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
59
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

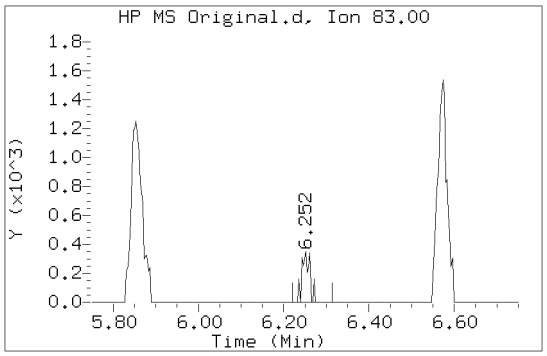


Methylcyclohexane (108-87-2)

Reason Code:

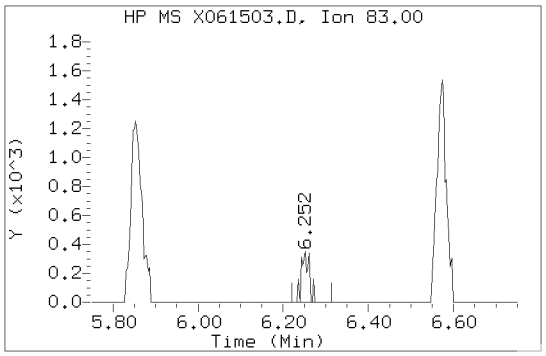
BEFORE

MASS
83
AREA
447
HEIGHT
351
12-Jul-2024
11:38
s
zaid



AFTER

MASS
83
AREA
447
HEIGHT
351
12-Jul-2024
11:38
s
zaid



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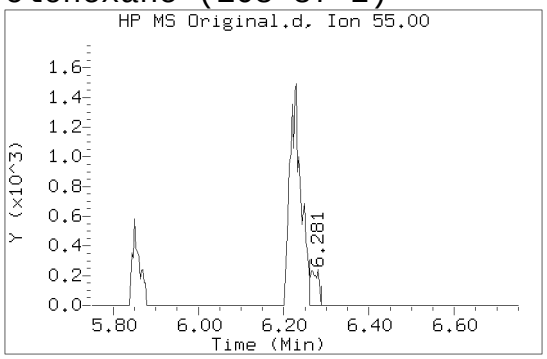
Inj Date : 15-JUN-2024 14:24
InstruID : voa7.i
LabSampID : VSTD001

Methylcyclohexane (108-87-2)

Reason Code:

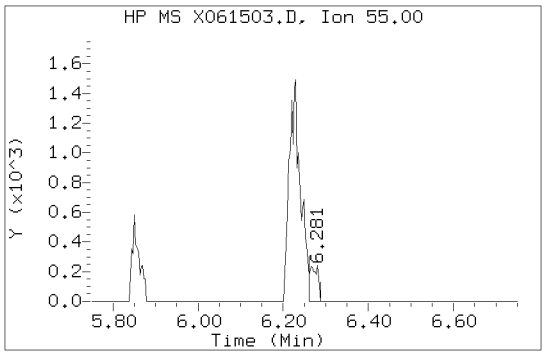
BEFORE

MASS
55
AREA
312
HEIGHT
241
12-Jul-2024
11:38
s
zaid



AFTER

MASS
55
AREA
312
HEIGHT
241
12-Jul-2024
11:38
s
zaid

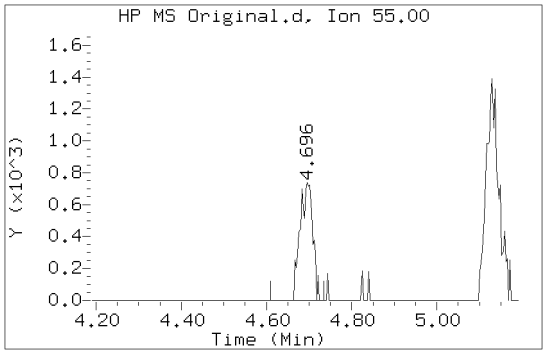


Methyl Acrylate (96-33-3)

Reason Code:

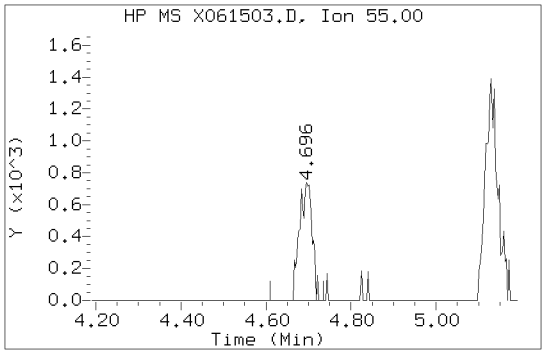
BEFORE

MASS
55
AREA
1547
HEIGHT
738
12-Jul-2024
11:38
s
zaid



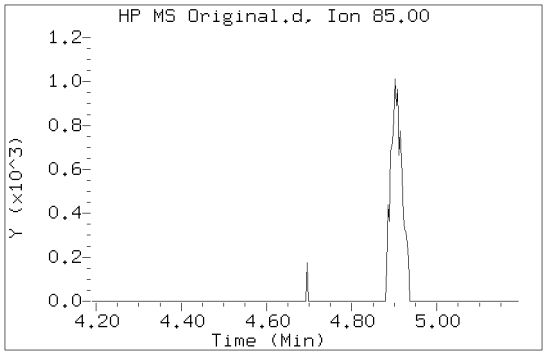
AFTER

MASS
55
AREA
1547
HEIGHT
738
12-Jul-2024
11:38
s
zaid



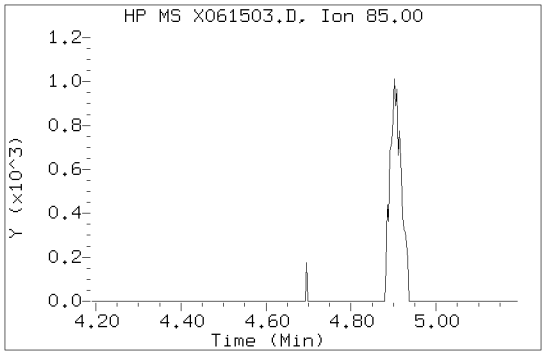
BEFORE

MASS
85
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
85
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

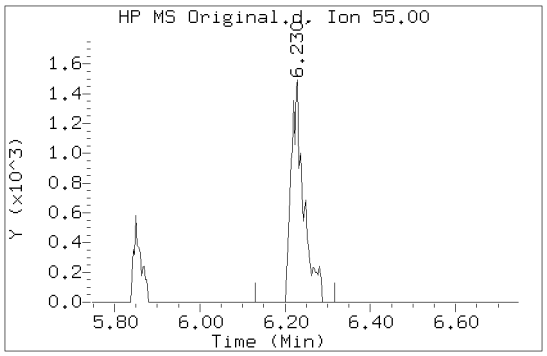


Ethyl Acrylate (140-88-5)

Reason Code:

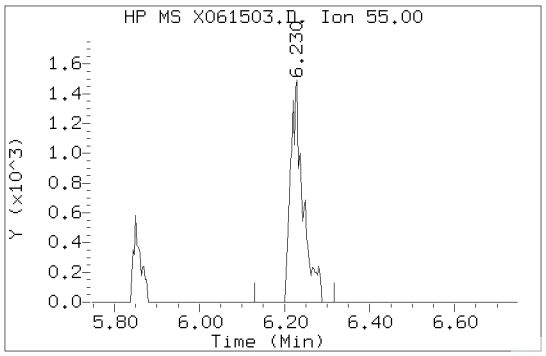
BEFORE

MASS
55
AREA
3026
HEIGHT
1493
12-Jul-2024
11:38
s
zaid



AFTER

MASS
55
AREA
3026
HEIGHT
1493
12-Jul-2024
11:38
s
zaid



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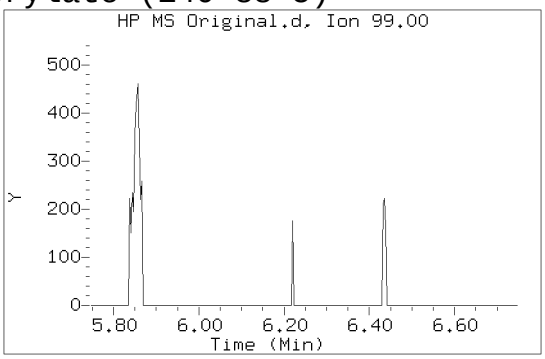
Inj Date : 15-JUN-2024 14:24
InstruID : voa7.i
LabSampID : VSTD001

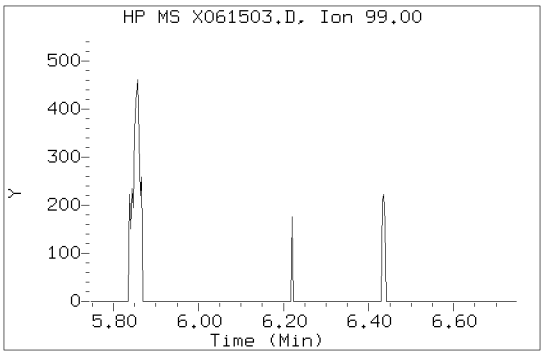
Ethyl Acrylate (140-88-5)

Reason Code:

BEFORE
MASS
99
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



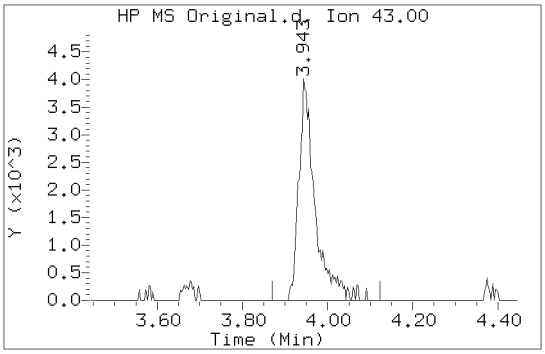
AFTER
MASS
99
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



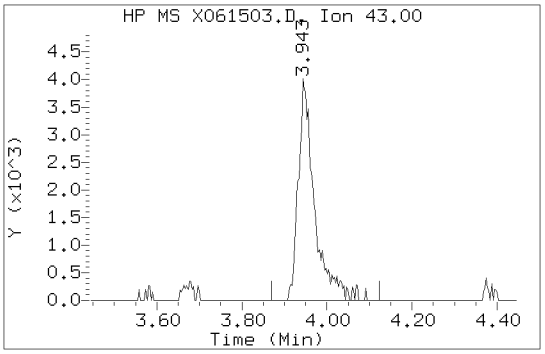
Ethyl Acetate (141-78-6)

Reason Code:

BEFORE
MASS
43
AREA
10732
HEIGHT
4015
12-Jul-2024
11:38
s
zaid



AFTER
MASS
43
AREA
10732
HEIGHT
4015
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
61
AREA
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HEIGHT
0
12-Jul-2024
11:38
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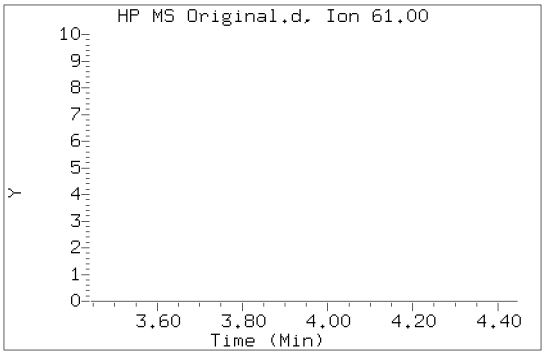
zaid



AFTER
MASS
61
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HEIGHT
0
12-Jul-2024
11:38
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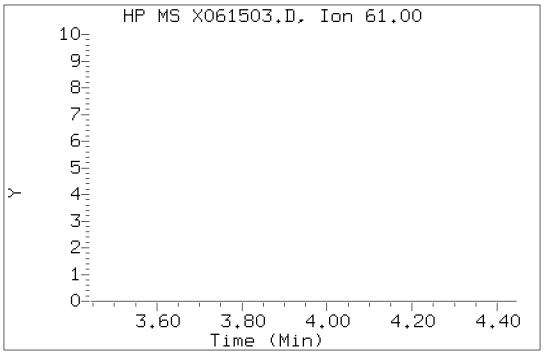
zaid



BEFORE
MASS
70
AREA
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HEIGHT
0
12-Jul-2024
11:38
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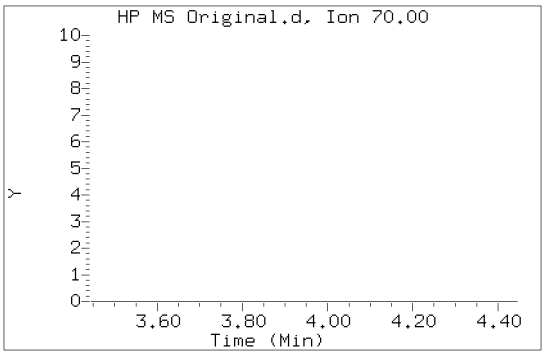
zaid



AFTER
MASS
70
AREA
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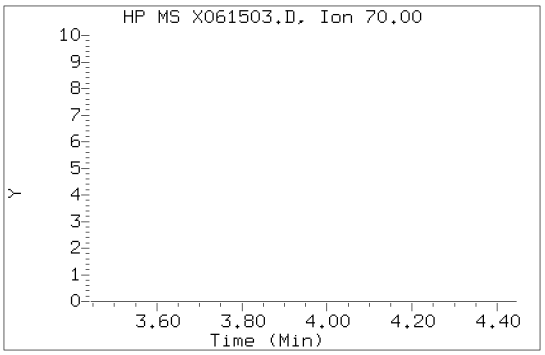
HEIGHT
0
12-Jul-2024
11:38
s
zaid



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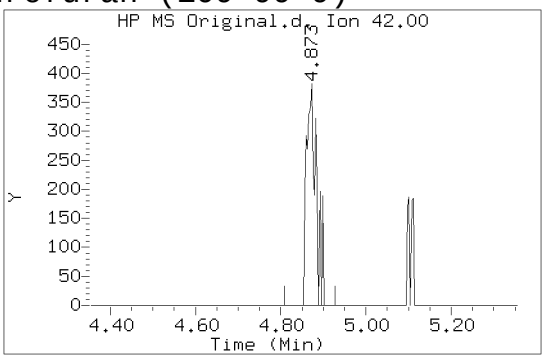
Inj Date : 15-JUN-2024 14:24
InstruID : voa7.i
LabSampID : VSTD001

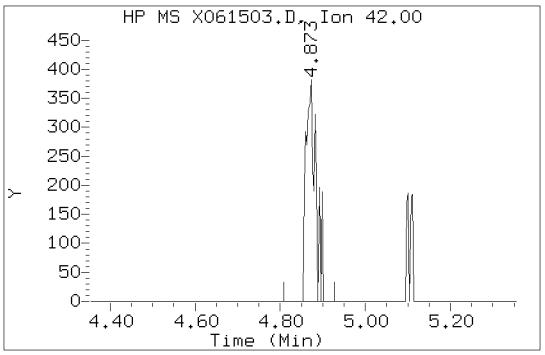
Tetrahydrofuran (109-99-9)

Reason Code:

BEFORE
MASS
42
AREA
607
HEIGHT
382
12-Jul-2024
11:38
s
zaid



AFTER
MASS
42
AREA
607
HEIGHT
382
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
71
AREA
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HEIGHT
0
12-Jul-2024
11:38
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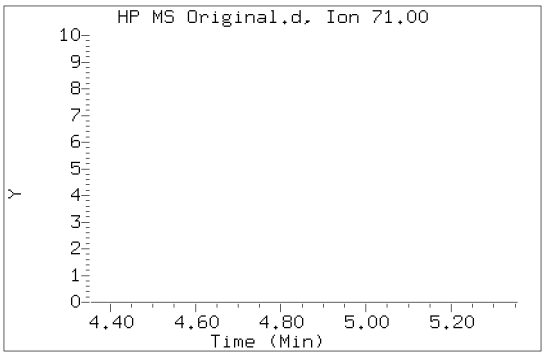
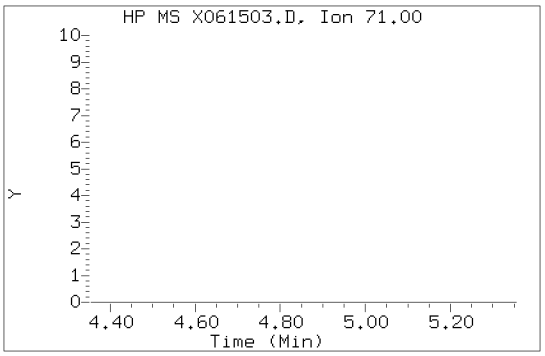
zaid



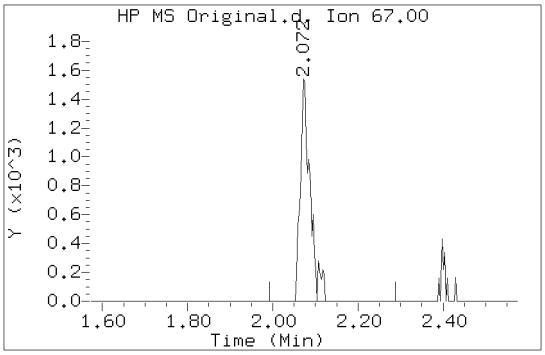
AFTER
MASS
71
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



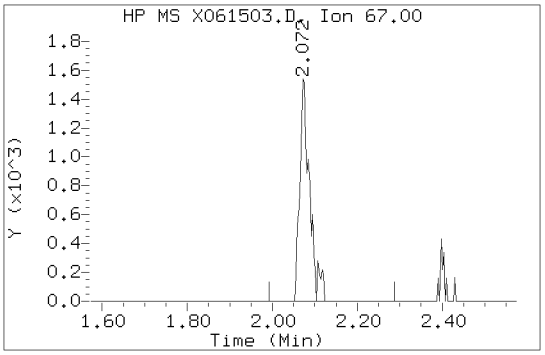
Dichlorofluoromethane (75-43-4)

Reason Code:

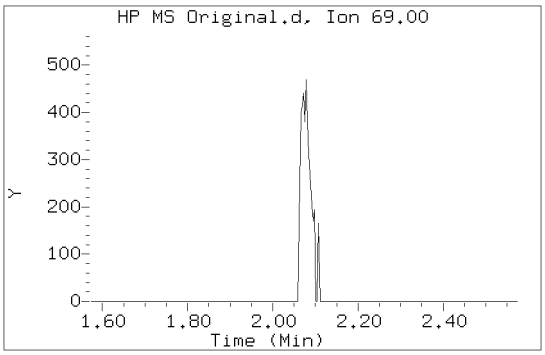
BEFORE
MASS
67
AREA
2496
HEIGHT
1540
12-Jul-2024
11:38
s
zaid



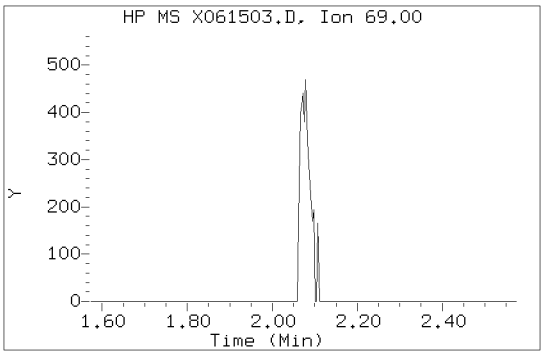
AFTER
MASS
67
AREA
2496
HEIGHT
1540
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
69
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER
MASS
69
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



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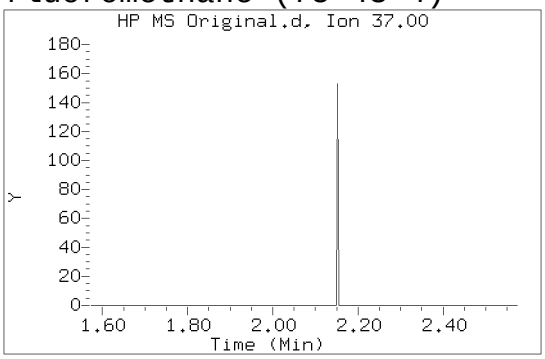
Inj Date : 15-JUN-2024 14:24
InstruID : voa7.i
LabSampID : VSTD001

Dichlorofluoromethane (75-43-4)

Reason Code:

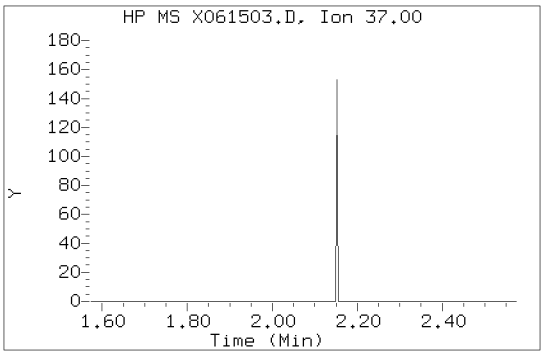
BEFORE

MASS
37
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
37
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



n-Amyl acetate (628-63-7)

Reason Code:

BEFORE

MASS
43
AREA
4173
HEIGHT
2867
12-Jul-2024
11:38
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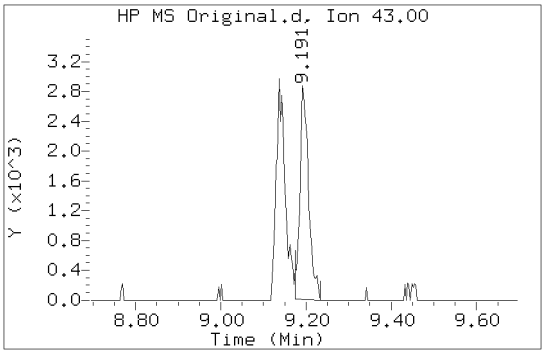
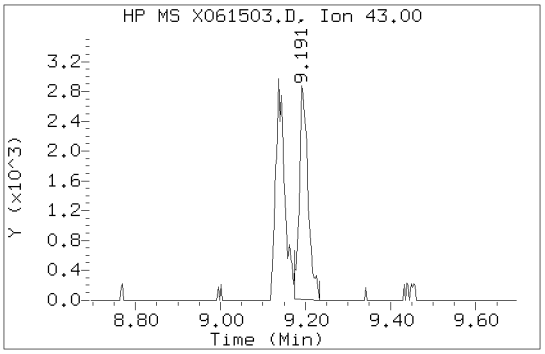
zaid



AFTER

MASS
43
AREA
4173
HEIGHT
2867
12-Jul-2024
11:38
s
zaid



BEFORE

MASS
70
AREA
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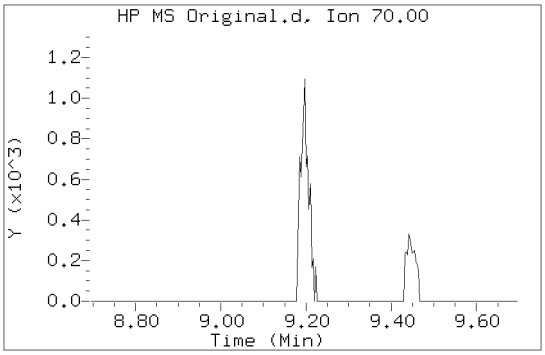
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
70
AREA
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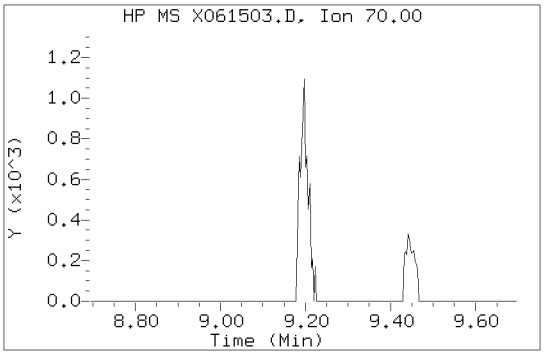
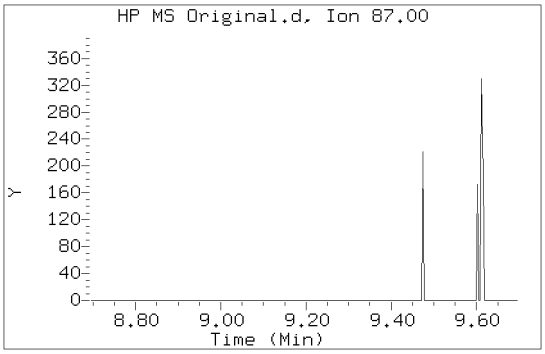
HEIGHT
0
12-Jul-2024
11:38
s
zaid



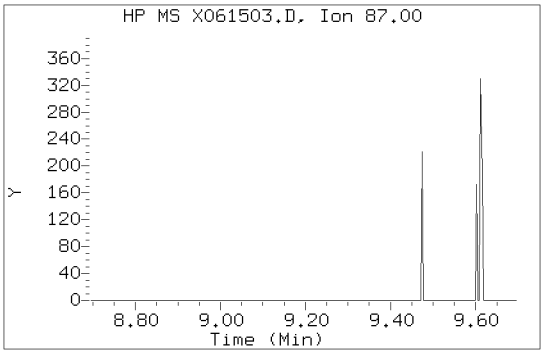
BEFORE

MASS
87
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
87
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



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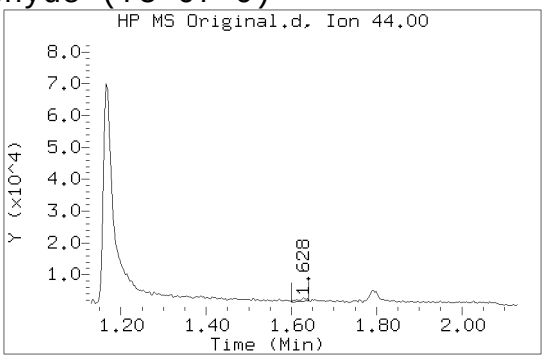
Inj Date : 15-JUN-2024 14:24
InstruID : voa7.i
LabSampID : VSTD001

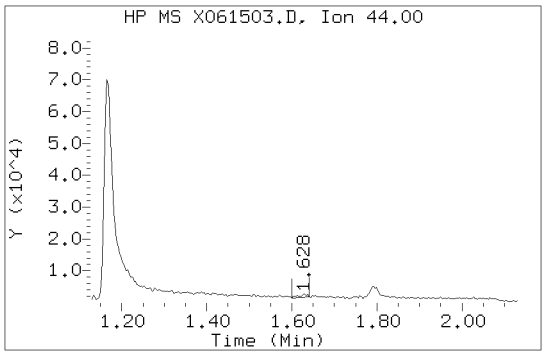
Acetaldehyde (75-07-0)

Reason Code:

BEFORE
MASS
44
AREA
1282
HEIGHT
980
12-Jul-2024
11:38
s
zaid



AFTER
MASS
44
AREA
1282
HEIGHT
980
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
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AREA
921
HEIGHT
535
12-Jul-2024
11:38
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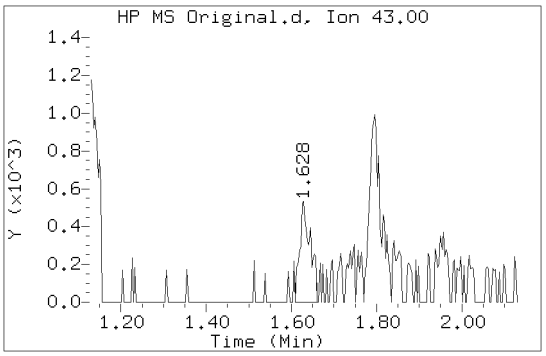
zaid



AFTER
MASS
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AREA
921
HEIGHT
535
12-Jul-2024
11:38
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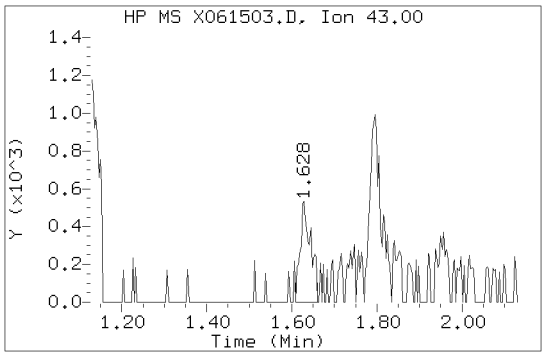
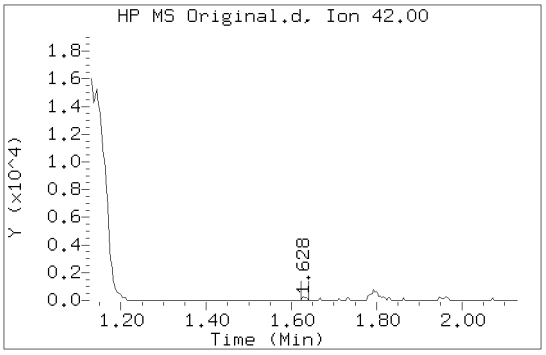
zaid



BEFORE
MASS
42
AREA
194
HEIGHT
255
12-Jul-2024
11:38
s
zaid



AFTER
MASS
42
AREA
194
HEIGHT
255
12-Jul-2024
11:38
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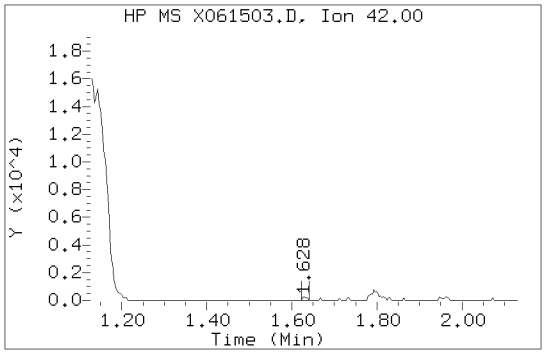
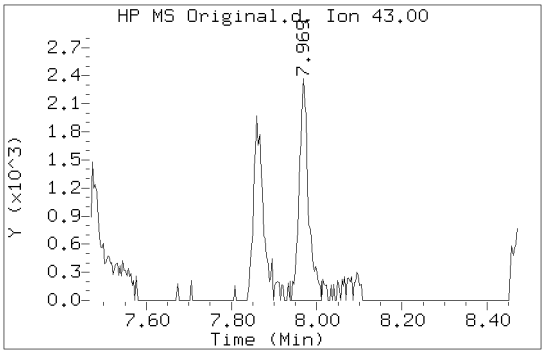
zaid



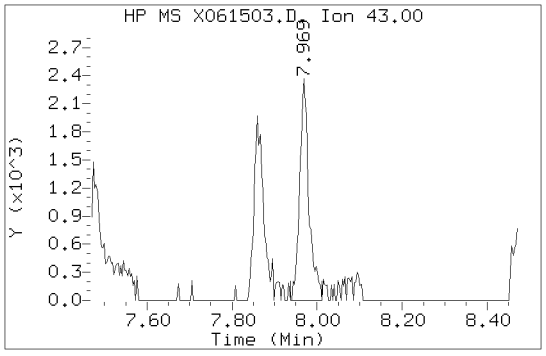
n-Butyl acetate (123-86-4)

Reason Code:

BEFORE
MASS
43
AREA
3629
HEIGHT
2367
12-Jul-2024
11:38
s
zaid



AFTER
MASS
43
AREA
3629
HEIGHT
2367
12-Jul-2024
11:38
s
zaid



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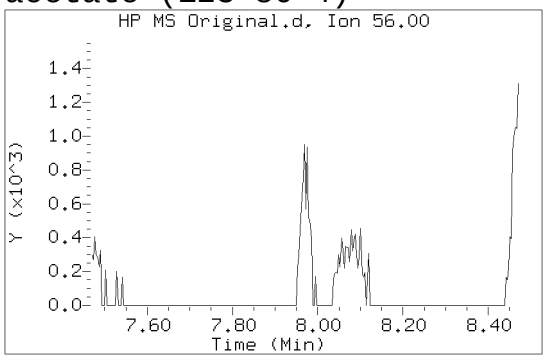
Inj Date : 15-JUN-2024 14:24
InstruID : voa7.i
LabSampID : VSTD001

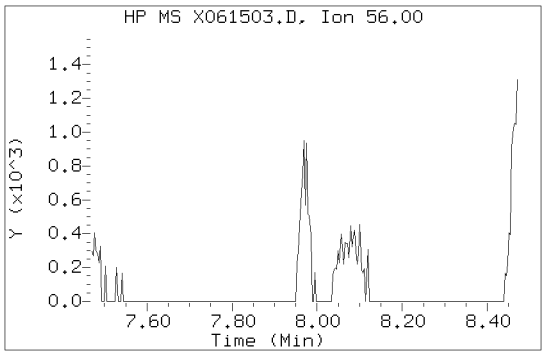
n-Butyl acetate (123-86-4)

Reason Code:

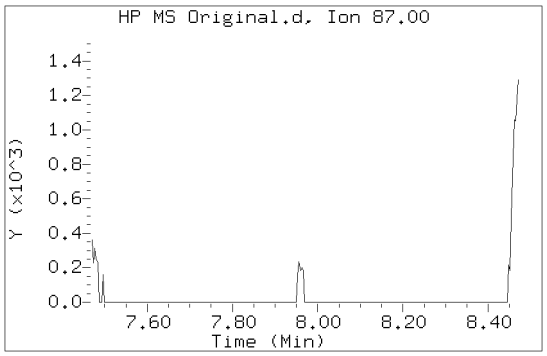
BEFORE
MASS
56
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER
MASS
56
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
87
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER
MASS
87
AREA
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HEIGHT
0
12-Jul-2024
11:38
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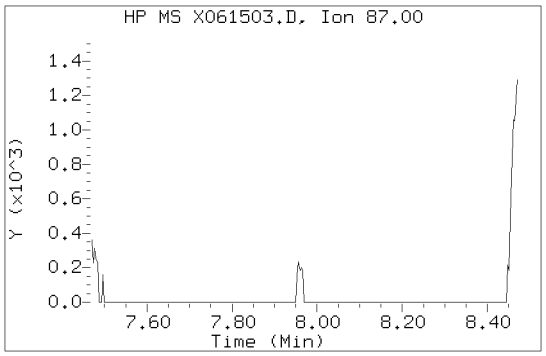
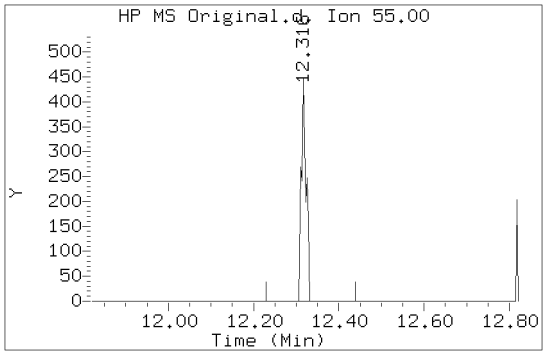
zaid



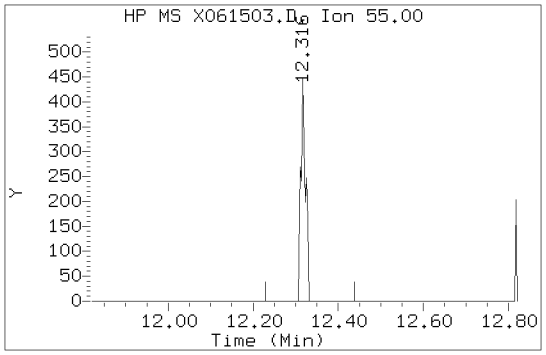
2-Etyhlhexyl Acrylate (103-11-7)

Reason Code:

BEFORE
MASS
55
AREA
362
HEIGHT
446
12-Jul-2024
11:38
s
zaid



AFTER
MASS
55
AREA
362
HEIGHT
446
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
70
AREA
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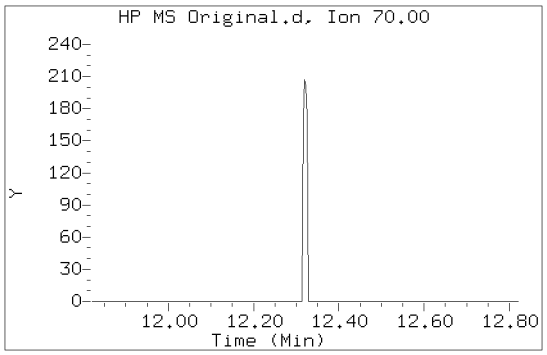
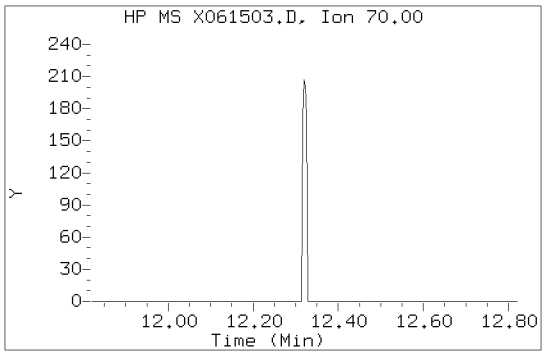
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER
MASS
70
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



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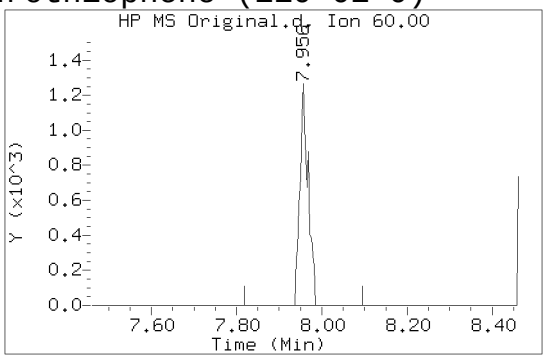
Inj Date : 15-JUN-2024 14:24
InstruID : voa7.i
LabSampID : VSTD001

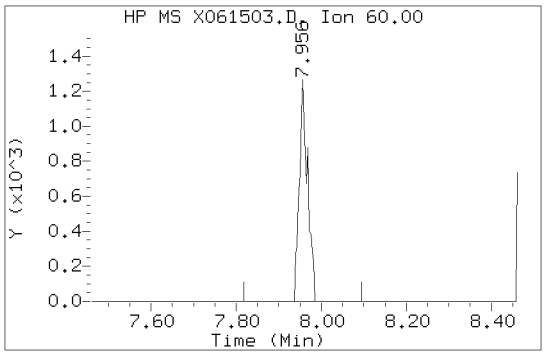
Tetrahydrothiophene (110-01-0)

Reason Code:

BEFORE
MASS
60
AREA
1726
HEIGHT
1266
12-Jul-2024
11:38
s
zaid



AFTER
MASS
60
AREA
1726
HEIGHT
1266
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
88
AREA
0
HEIGHT
0
12-Jul-2024
11:38
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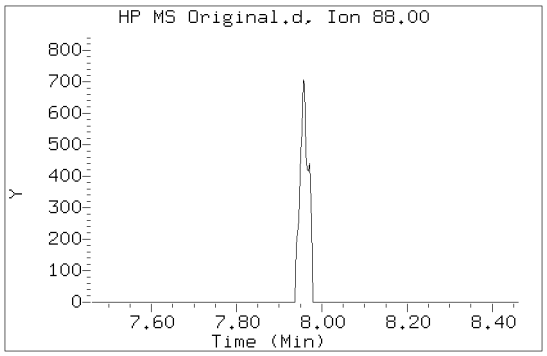

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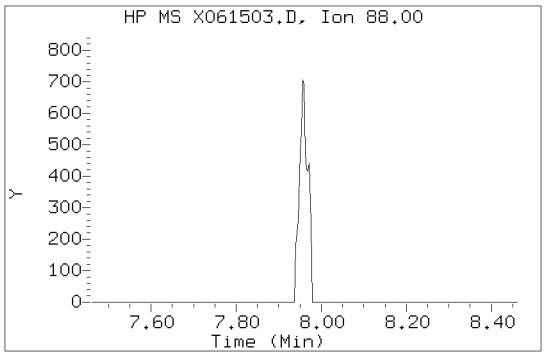

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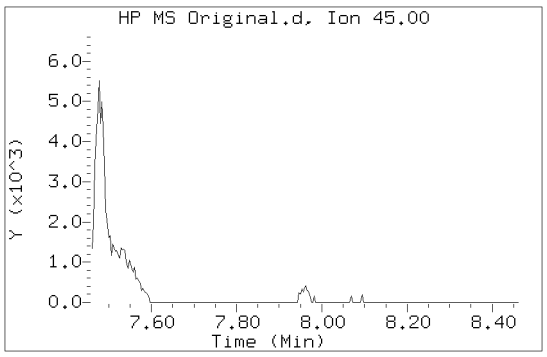

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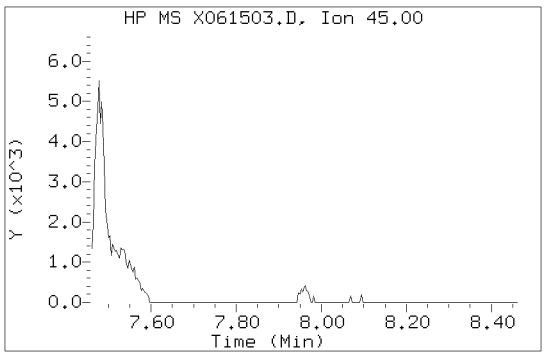

sec-Butyl Ether (6863-58-7)

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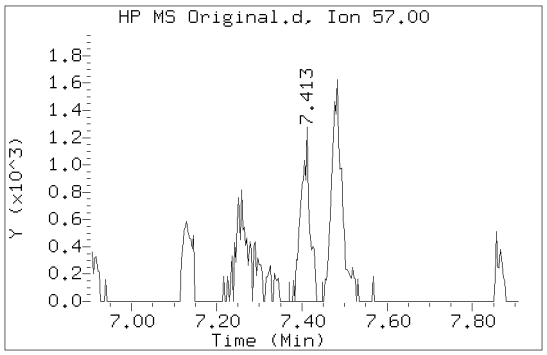

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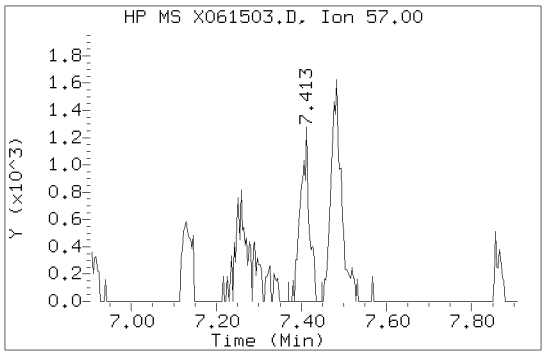

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LabSampID : VSTD001

sec-Butyl Ether (6863-58-7)

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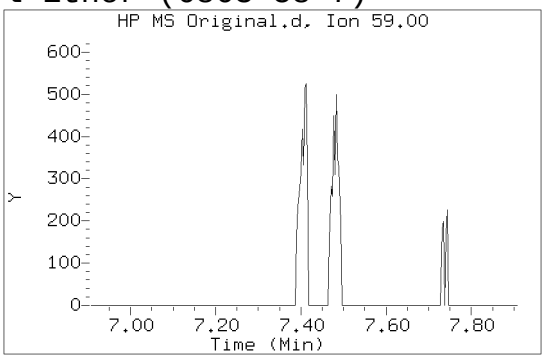

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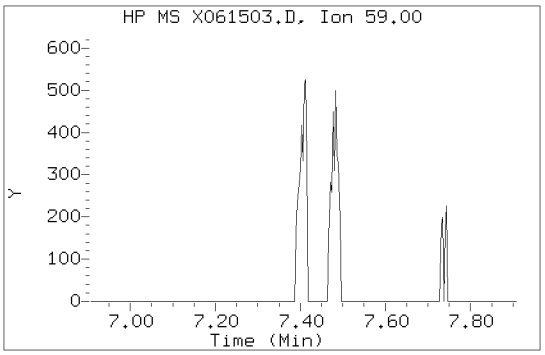

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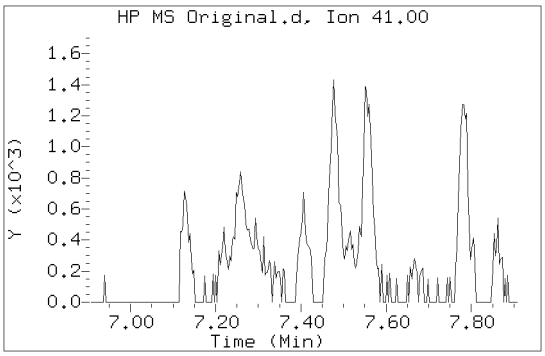

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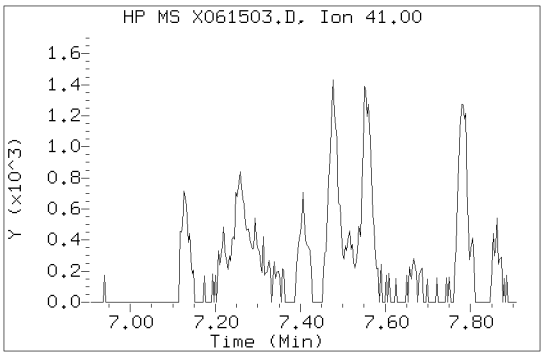

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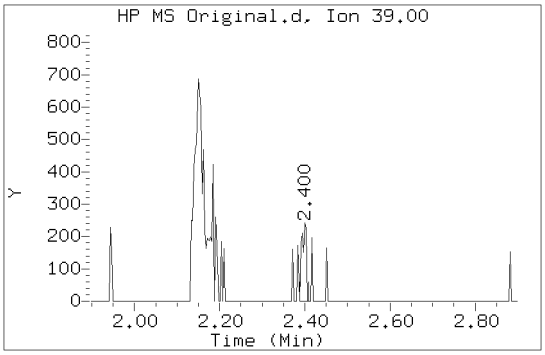

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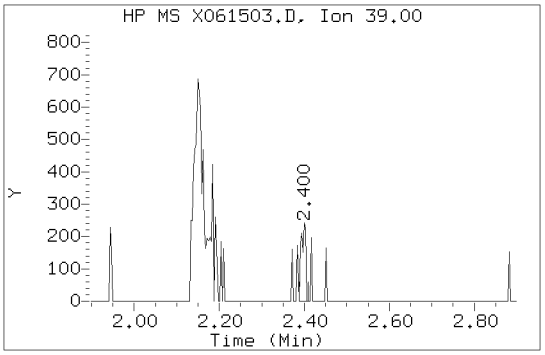

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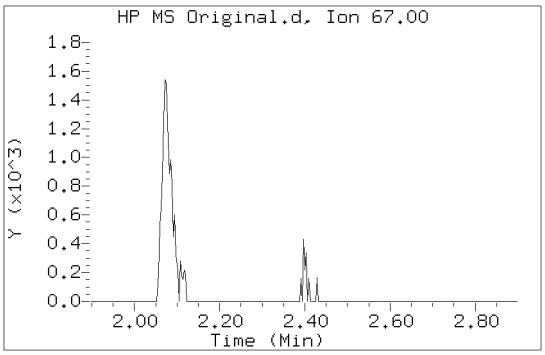

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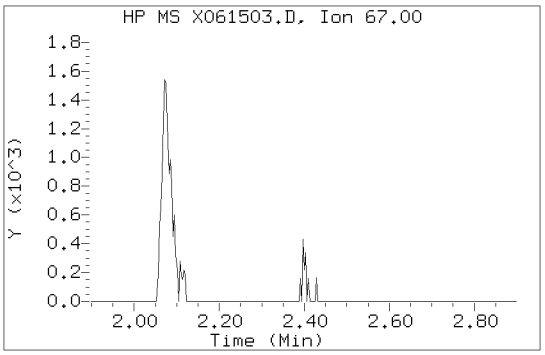

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Isoprene (78-79-5)

Reason Code:

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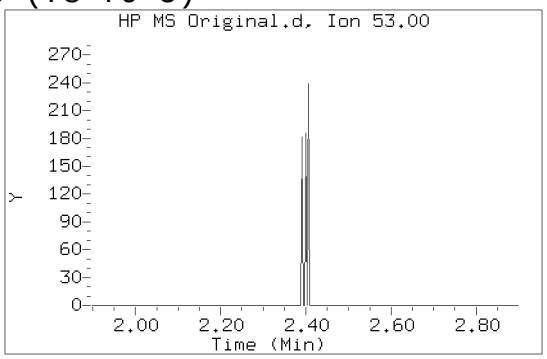

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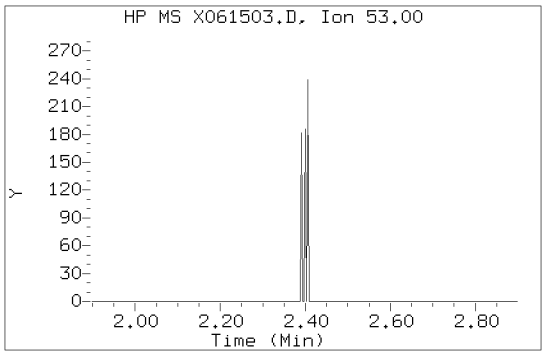

2-Chloropropene (557-98-2)

Reason Code:

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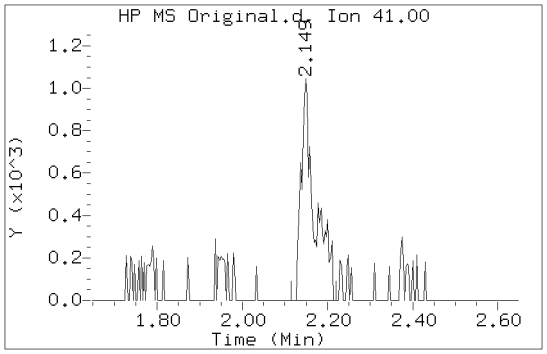

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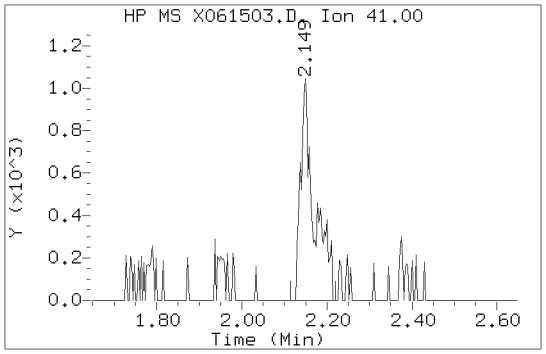

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Report Date: 12-Jul-2024 11:38

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061504.D
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Inj Date : 15-JUN-2024 14:46
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Smp Info : VSTD002;VSTD002;1;3
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Cal Date : 15-JUN-2024 14:24 Cal File: X061503.D
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

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)	126989	50.0000	
2	Dichlorodifluoromethane	85	1.297	1.297	(0.253)	4360	2.00000	2.90
159	Dichlorofluoromethane	67	2.078	2.078	(0.405)	5948	2.00000	2.24(M)
3	Chloromethane	50	1.448	1.448	(0.282)	6755	2.00000	2.53(a)
4	Propionitrile	54	4.670	4.670	(0.910)	5593	20.0000	23.40
5	Vinyl Chloride	62	1.535	1.535	(0.299)	5443	2.00000	2.90
6	Bromomethane	94	1.811	1.811	(0.353)	3738	2.00000	2.58
7	Chloroethane	64	1.898	1.898	(0.370)	3631	2.00000	2.94(M)
8	Trichlorofluoromethane	101	2.114	2.114	(0.412)	6842	2.00000	2.61(M)
10	Acetone	43	2.673	2.673	(0.521)	4581	4.00000	5.00(M)
11	1,1-Dichloroethene	96	2.589	2.589	(0.505)	3570	2.00000	2.88
12	Isobutyl Alcohol	43	5.573	5.573	(1.086)	13006	40.0000	44.12
13	Acetonitrile	39	2.962	2.962	(0.578)	4734	20.0000	18.04
14	Allyl Chloride	41	2.962	2.962	(0.578)	12586	2.00000	2.18
15	Iodomethane	142	2.741	2.741	(0.534)	6420	4.00000	7.56
16	Acrylonitrile	53	3.387	3.387	(0.660)	2570	4.00000	4.88
17	Methylene Chloride	84	3.088	3.088	(0.602)	5964	2.00000	2.30
18	Methyl tert-butyl ether	73	3.384	3.384	(0.660)	9601	2.00000	2.93
19	Carbon Disulfide	76	2.795	2.795	(0.545)	24820	4.00000	5.64
20	trans-1,2-Dichloroethene	96	3.380	3.380	(0.659)	3881	2.00000	2.60

21 Vinyl Acetate	43	4.663	4.663 (0.909)	5183	4.00000	4.08(M)
22 1,1-Dichloroethane	63	3.856	3.856 (0.752)	7397	2.00000	2.47

	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)	6709	2.00000	2.79(a)
	24 2-Butanone	43	4.593	4.593	(0.895)	5001	4.00000	4.38
	25 Methacrylonitrile	41	2.149	2.149	(0.419)	3879	2.00000	1.83(a)
	26 2,2-Dichloropropane	77	4.528	4.528	(0.883)	6796	2.00000	2.68
	27 cis-1,2-Dichloroethene	96	4.548	4.548	(0.887)	4389	2.00000	2.39
	28 Chloroform	83	4.898	4.898	(0.955)	8279	2.00000	2.31
	29 Bromochloromethane	128	4.811	4.811	(0.938)	2129	2.00000	2.49
$	30 Dibromofluoromethane	113	5.078	5.078	(0.990)	4411	2.00000	2.22
	31 1,1,1-Trichloroethane	97	5.072	5.072	(0.989)	6669	2.00000	2.79
	32 1,1-Dichloropropene	75	5.239	5.239	(0.895)	6316	2.00000	3.22
	33 1,2-Dichloroethane	62	5.493	5.493	(0.938)	7132	2.00000	2.77
	34 Carbon Tetrachloride	117	5.236	5.236	(0.895)	5848	2.00000	3.71
$	35 1,2-Dichloroethane-d4	65	5.412	5.412	(1.055)	6311	2.00000	2.68
*	36 1,4-Difluorobenzene	114	5.853	5.853	(1.000)	207013	50.0000	
	37 Benzene	78	5.457	5.457	(0.932)	17570	2.00000	2.72
	38 Trichloroethene	130	6.084	6.084	(1.040)	4355	2.00000	2.91
	39 Bromodichloromethane	83	6.567	6.567	(1.122)	6210	2.00000	2.69
	40 Methyl Methacrylate	41	6.435	6.435	(1.254)	4678	2.00000	1.79(a)
	41 2-Chloroethylvinyl ether	63	6.859	6.859	(1.172)	3297	4.00000	4.67(a)
	42 1,2-Dichloropropane	63	6.306	6.306	(1.077)	5229	2.00000	2.89
	43 2-Nitropropane	43	6.792	6.792	(1.324)	1657	2.00000	3.95(a)
	44 Dibromomethane	93	6.416	6.416	(1.096)	2780	2.00000	3.02
	45 4-Methyl-2-Pentanone	43	7.126	7.126	(0.842)	9850	4.00000	4.85
	46 cis-1,3-Dichloropropene	75	6.975	6.975	(1.192)	6773	2.00000	3.38
*	47 Chlorobenzene-d5	117	8.467	8.467	(1.000)	200102	50.0000	
$	48 Toluene-d8	98	7.207	7.207	(0.851)	16366	2.00000	2.05
	49 Ethyl Methacrylate	69	8.072	8.072	(1.379)	5298	2.00000	3.05
	50 Toluene	91	7.264	7.264	(0.858)	18783	2.00000	2.59
	51 trans-1,3-Dichloropropene	75	6.975	6.975	(1.192)	6773	2.00000	3.38
	52 2-Hexanone	43	7.859	7.859	(0.928)	6816	4.00000	3.94
	53 1,1,2-Trichloroethane	83	7.637	7.637	(0.902)	3483	2.00000	2.33
	54 1,3-Dichloropropane	76	7.782	7.782	(0.919)	7570	2.00000	2.45
	55 Dibromochloromethane	129	7.975	7.975	(0.942)	4238	2.00000	2.58
	56 Tetrachloroethene	164	7.737	7.737	(0.914)	3466	2.00000	2.98
	57 1,2-Dibromoethane	107	8.072	8.072	(0.953)	3930	2.00000	2.48
	58 1-Chlorohexane	55	8.467	8.467	(1.447)	6865	2.00000	2.67
	59 Chlorobenzene	112	8.490	8.490	(1.003)	12490	2.00000	2.59
	60 1,1,1,2-Tetrachloroethane	131	8.567	8.567	(1.012)	4146	2.00000	3.42
	61 Ethylbenzene	106	8.583	8.583	(1.014)	6293	2.00000	2.65
	62 m,p-Xylenes	106	8.682	8.682	(1.025)	15967	4.00000	5.35
	63 o-Xylene	106	9.026	9.026	(1.066)	7810	2.00000	2.53
	64 Styrene	104	9.043	9.043	(1.068)	13408	2.00000	2.56
	66 Bromoform	173	9.207	9.207	(1.087)	2658	2.00000	2.57(T)
	67 Isopropylbenzene	105	9.338	9.338	(1.103)	20031	2.00000	2.89
	68 1,1,2,2-Tetrachloroethane	83	9.605	9.605	(0.919)	5353	2.00000	2.60
$	69 4-Bromofluorobenzene	95	9.473	9.473	(1.119)	7721	2.00000	2.17
*	70 1,4-Dichlorobenzene-d4	152	10.457	10.457	(1.000)	96430	50.0000	
	71 1,2,3-Trichloropropane	75	9.650	9.650	(0.923)	6201	2.00000	2.82
	72 trans-1,4-Dichloro-2-butene	53	9.657	9.657	(1.140)	1262	2.00000	3.05
	73 n-Propylbenzene	91	9.689	9.689	(0.927)	23920	2.00000	3.33
	74 Bromobenzene	156	9.605	9.605	(0.919)	5157	2.00000	3.10
	75 1,3,5-Trimethylbenzene	105	9.837	9.837	(0.941)	17230	2.00000	3.52

76	2-Chlorotoluene	91	9.766	9.766 (0.934)	15070	2.00000	3.00
77	4-Chlorotoluene	91	9.859	9.859 (0.943)	17334	2.00000	3.10

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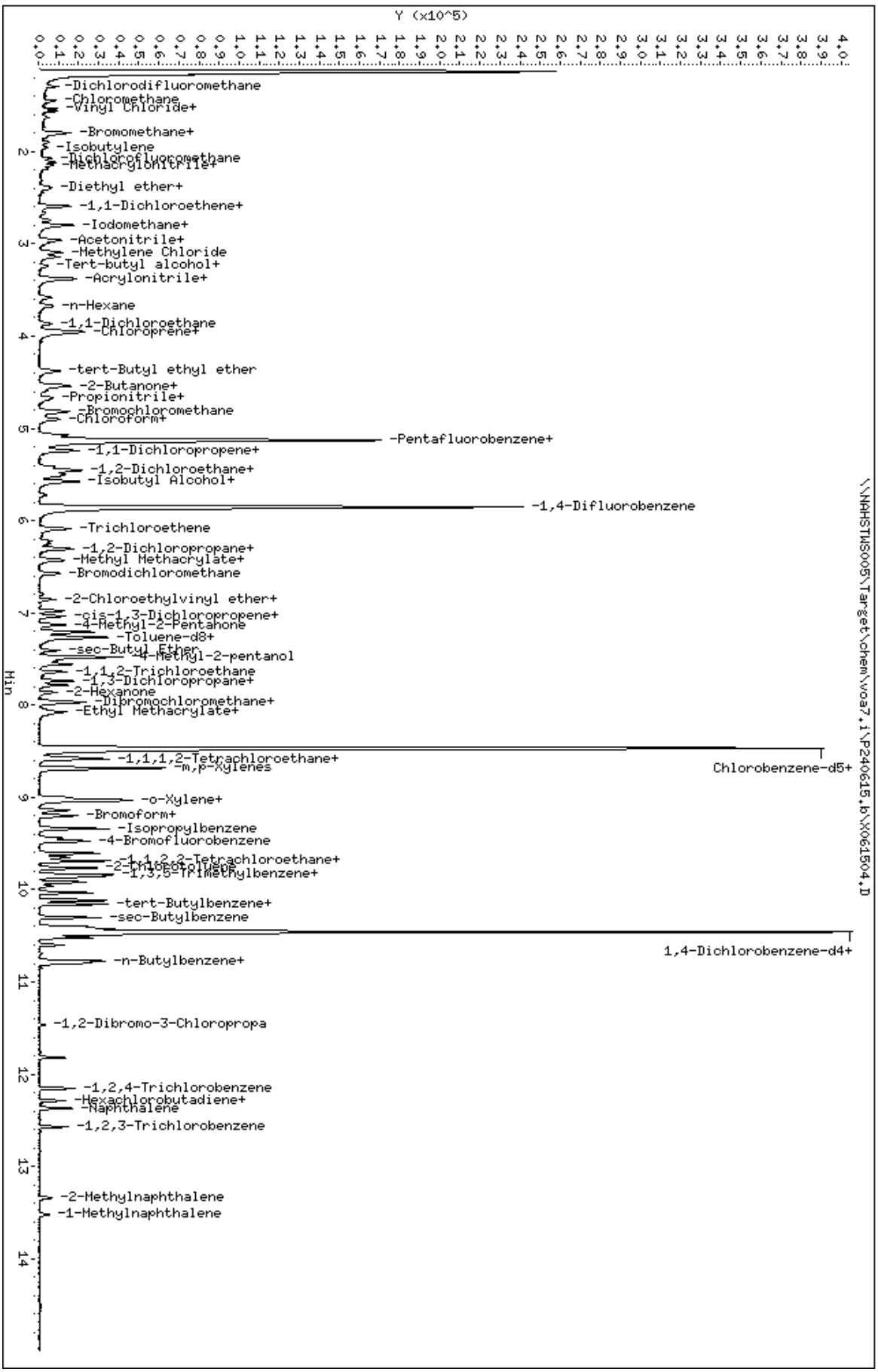
						AMOUNTS	
		QUANT SIG				CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
78	tert-Butylbenzene	119	10.116	10.116	(0.967)	13885	2.00000	3.04
79	1,2,4-Trimethylbenzene	105	10.158	10.158	(0.971)	16705	2.00000	3.13
81	sec-Butylbenzene	105	10.303	10.303	(0.985)	18544	2.00000	3.33
82	p-Isopropyltoluene	119	10.425	10.425	(0.997)	17126	2.00000	3.40
83	1,3-Dichlorobenzene	146	10.403	10.403	(0.995)	9329	2.00000	3.11
84	1,4-Dichlorobenzene	146	10.473	10.473	(1.002)	9700	2.00000	2.88
87	n-Butylbenzene	91	10.772	10.772	(1.030)	16170	2.00000	3.23
88	1,2-Dichlorobenzene	146	10.795	10.795	(1.032)	8741	2.00000	2.96
89	1,2-Dibromo-3-Chloropropane	75	11.464	11.464	(1.096)	751	2.00000	2.63
90	1,2,4-Trichlorobenzene	180	12.155	12.155	(1.162)	5210	2.00000	3.61
91	Hexachlorobutadiene	225	12.284	12.284	(1.175)	2304	2.00000	3.31
92	Naphthalene	128	12.370	12.370	(1.183)	10913	2.00000	2.63
93	1,2,3-Trichlorobenzene	182	12.570	12.570	(1.202)	3964	2.00000	2.63
135	1,4-Dioxane	88	6.448	6.448	(1.257)	722	40.0000	56.61(M)
146	Methyl acetate	43	2.988	2.988	(0.583)	3471	2.00000	2.51(Ta)
138	Freon TF	101	2.589	2.589	(0.505)	3581	2.00000	3.04
139	Diethyl ether	59	2.377	2.377	(0.463)	2295	2.00000	2.47
140	1,3-Butadiene	54	1.564	1.564	(0.305)	1902	2.00000	3.01(a)
141	Cyclohexane	56	5.113	5.113	(0.997)	9369	2.00000	3.54
147	Methylcyclohexane	83	6.252	6.252	(1.068)	1703	2.00000	2.81
132	n-Butanol	56	6.223	6.223	(1.213)	1394	40.0000	34.47(TM)
131	Methyl Acrylate	55	4.695	4.695	(0.915)	4529	2.00000	2.04
133	Ethyl Acrylate	55	6.223	6.223	(1.213)	7923	2.00000	2.21(M)
136	n-Hexane	57	3.679	3.679	(0.717)	4304	2.00000	3.34
142	Tetrahydrofuran	42	4.866	4.866	(0.949)	1504	4.00000	7.72
148	Tert-butyl alcohol	59	3.242	3.242	(0.632)	5708	40.0000	60.90
149	Isopropyl alcohol	45	2.818	2.818	(0.549)	4553	40.0000	42.64(M)
151	4-Methyl-2-pentanol	45	7.480	7.480	(0.883)	33216	40.0000	57.35
166	1,2,3-Trimethylbenzene	105	10.518	10.518	(1.006)	12208	2.00000	2.45
167	Ethanol	45	2.300	2.300	(0.448)	850	40.0000	51.51(T)
172	tert-Butyl formate	59	3.242	3.242	(0.632)	5791	4.00000	5.07
173	3,3-Dimethyl-1-butanol	57	8.072	8.072	(0.953)	7547	40.0000	63.30
174	tert-Amyl methyl ether	73	5.580	5.580	(1.088)	11736	2.00000	2.85
175	tert-Butyl ethyl ether	59	4.374	4.374	(0.853)	11060	2.00000	2.55
157	2-Methylnaphthalene	142	13.345	13.345	(1.276)	3328	2.00000	2.21
156	Diisopropyl ether	45	3.943	3.943	(0.769)	12927	2.00000	2.56(T)
171	1-Methylnaphthalene	142	13.521	13.521	(1.293)	3257	2.00000	2.44
130	Ethyl Acetate	43	3.943	3.943	(0.769)	25930	2.00000	3.06(aM)
176	tert-Amyl alcohol	59	5.512	5.512	(1.075)	5269	40.0000	47.10
160	Epichlorohydrin	57	6.911	6.911	(1.181)	1017	8.00000	12.59
161	Butyl acrylate	55	8.998	8.998	(1.063)	9733	2.00000	3.09(a)
182	Isobutylene	56	1.953	1.953	(0.381)	144	2.00000	1.81(aAM)
183	Isopropyl Acetate	43	5.573	5.573	(0.952)	13006	2.00000	2.56(aA)
184	n-Amyl acetate	43	9.197	9.197	(1.086)	9084	2.00000	3.28(aAM)
185	Acetaldehyde	44	1.628	1.628	(0.317)	2195	8.00000	6.65(AM)
186	n-Butyl acetate	43	7.965	7.965	(0.941)	7800	2.00000	2.47(aAM)
187	2-Etyhlhexyl Acrylate	55	12.319	12.319	(1.178)	633	2.00000	3.98(aAM)
188	Tetrahydrothiophene	60	7.962	7.962	(0.940)	4279	2.00000	2.54(aAM)
189	sec-Butyl Ether	57	7.406	7.406	(0.875)	3772	2.00000	0.48(aAM)
190	Isoprene	39	2.406	2.406	(0.469)	1099	2.00000	3.16(aAM)
191	2-Chloropropene	41	2.149	2.149	(0.419)	3879	2.00000	1.77(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.
M - Compound response manually integrated.



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Date : 15-JUN-2024 14:46
Client ID: VSTD002
Sample Info: VSTD002;VSTD002;1;3
Purge Volume: 5.0
Column phase: DB624

\\NAHSTMS005\Target\chem\voa7.i\P240615.b\X061504.D

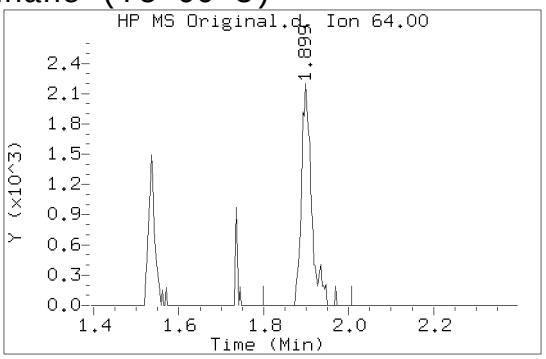
Instrument: voa7.i
Operator: AP
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061504.D
Inj Date : 15-JUN-2024 14:46
InstruID : voa7.i
LabSampID : VSTD002

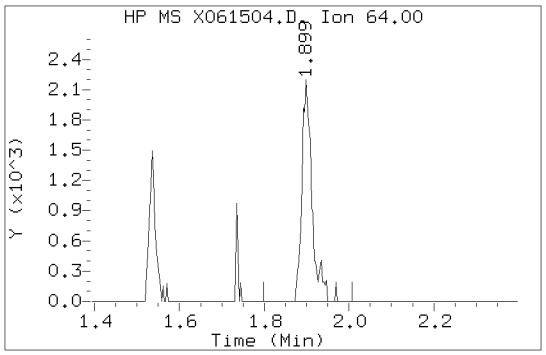
Chloroethane (75-00-3)

Reason Code:

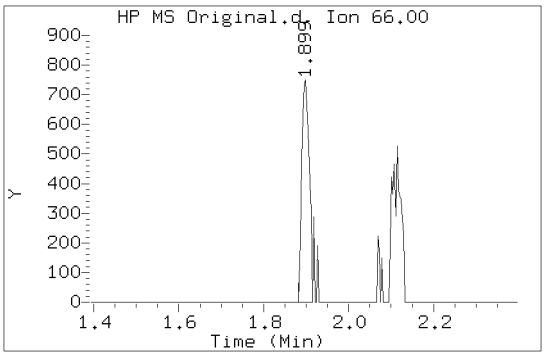
BEFORE
MASS
64
AREA
3631
HEIGHT
2199
12-Jul-2024
11:38
s
zaid



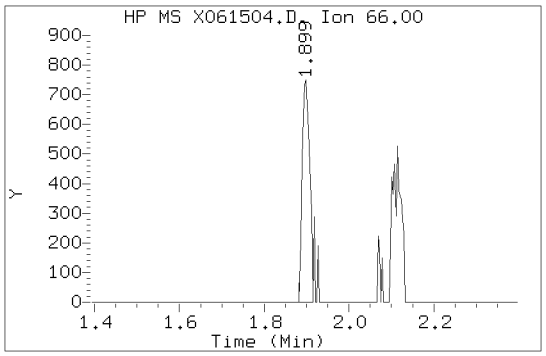
AFTER
MASS
64
AREA
3631
HEIGHT
2199
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
66
AREA
917
HEIGHT
750
12-Jul-2024
11:38
s
zaid



AFTER
MASS
66
AREA
917
HEIGHT
750
12-Jul-2024
11:38
s
zaid



Trichlorofluoromethane (75-69-4)

Reason Code:

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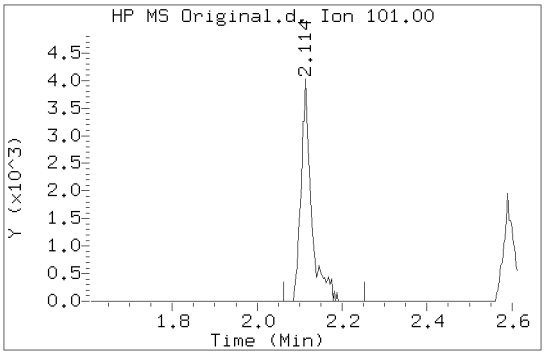
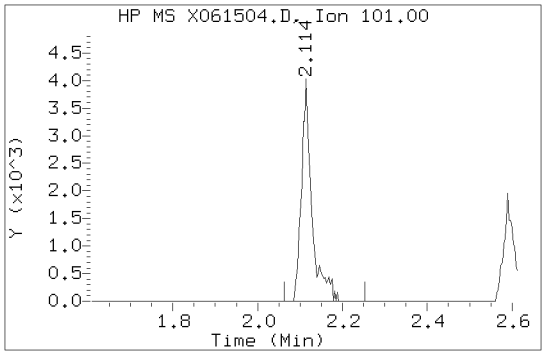
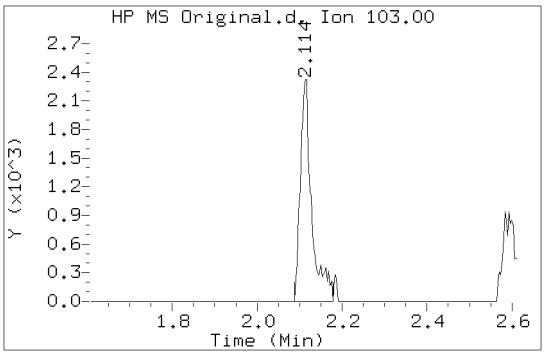
MASS
101
AREA
6842
HEIGHT
4030
12-Jul-2024
11:38
s
zaid



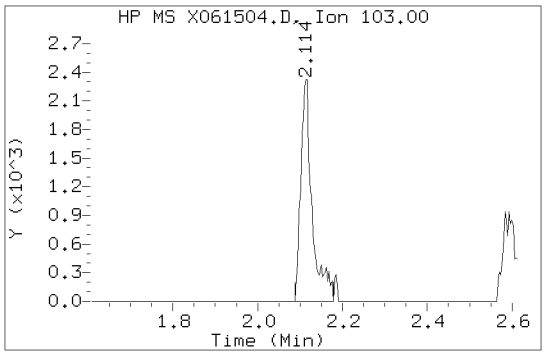
AFTER
MASS
101
AREA
6842
HEIGHT
4030
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
103
AREA
4287
HEIGHT
2322
12-Jul-2024
11:38
s
zaid



AFTER
MASS
103
AREA
4287
HEIGHT
2322
12-Jul-2024
11:38
s
zaid



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Inj Date : 15-JUN-2024 14:46
InstruID : voa7.i
LabSampID : VSTD002

Acetone (67-64-1)

Reason Code:

BEFORE
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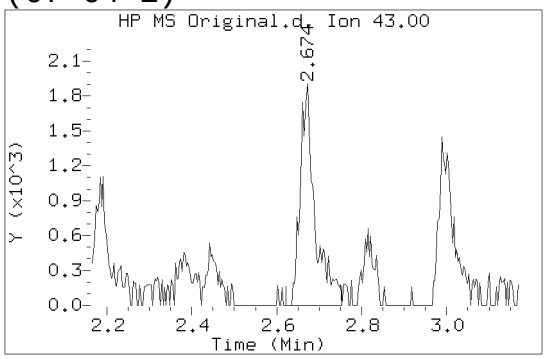
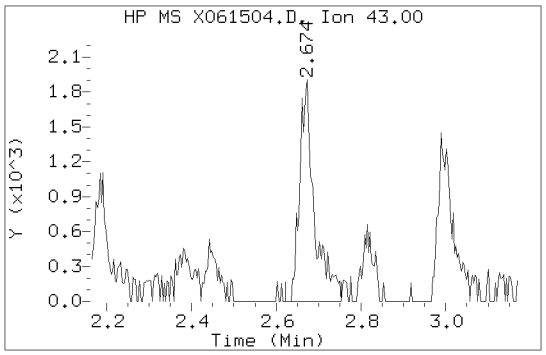
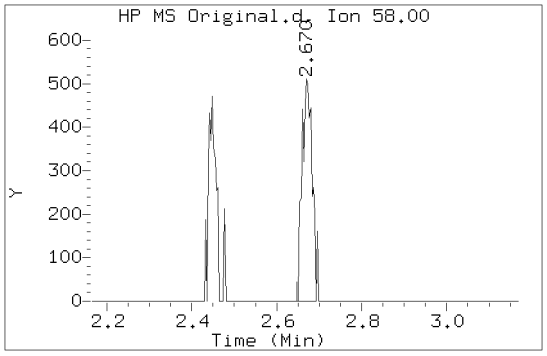
43
AREA
4581
HEIGHT
1906
12-Jul-2024
11:38
s
zaid



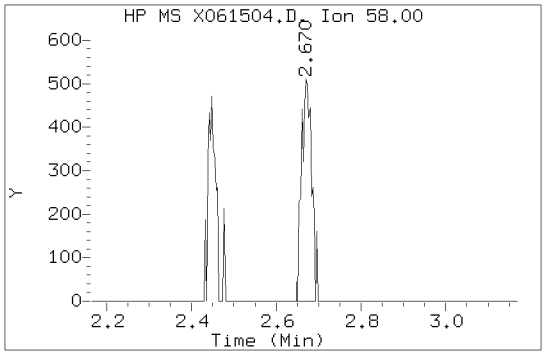
AFTER
MASS
43
AREA
4581
HEIGHT
1906
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
58
AREA
820
HEIGHT
511
12-Jul-2024
11:38
s
zaid



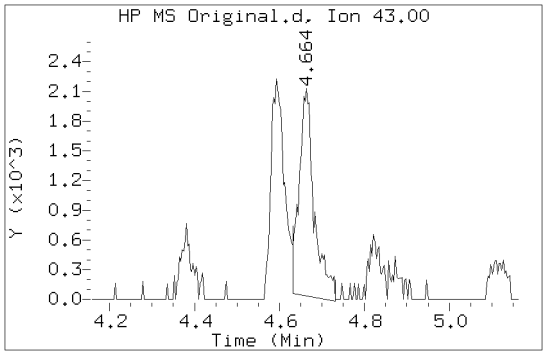
AFTER
MASS
58
AREA
820
HEIGHT
511
12-Jul-2024
11:38
s
zaid



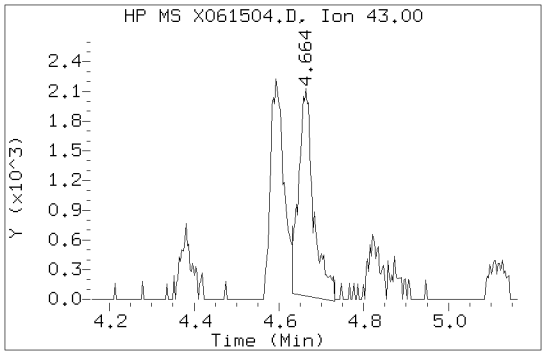
Vinyl Acetate (108-05-4)

Reason Code:

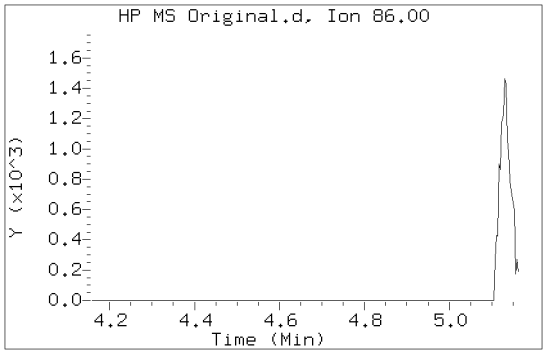
BEFORE
MASS
43
AREA
5183
HEIGHT
2094
12-Jul-2024
11:38
s
zaid



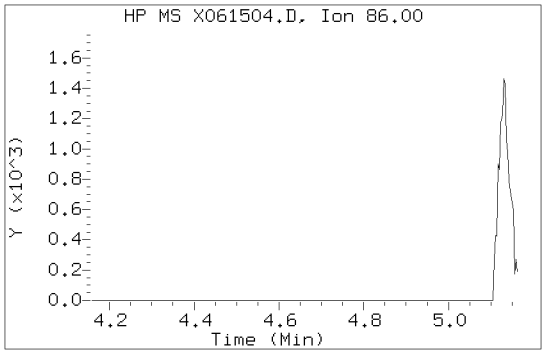
AFTER
MASS
43
AREA
5183
HEIGHT
2094
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
86
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER
MASS
86
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



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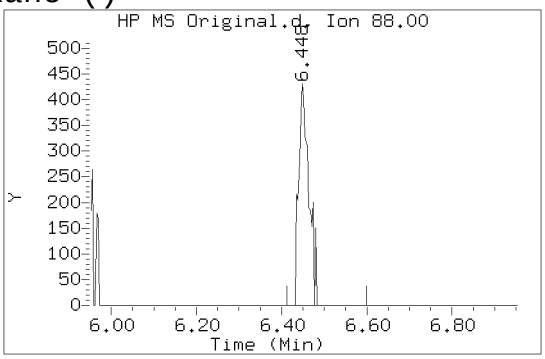
Inj Date : 15-JUN-2024 14:46
InstruID : voa7.i
LabSampID : VSTD002

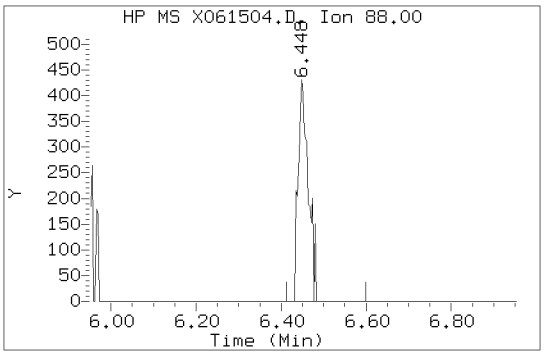
1,4-Dioxane ()

Reason Code:

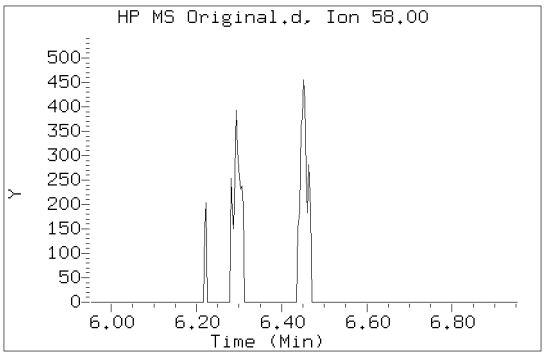
BEFORE
MASS
88
AREA
722
HEIGHT
431
12-Jul-2024
11:38
s
zaid



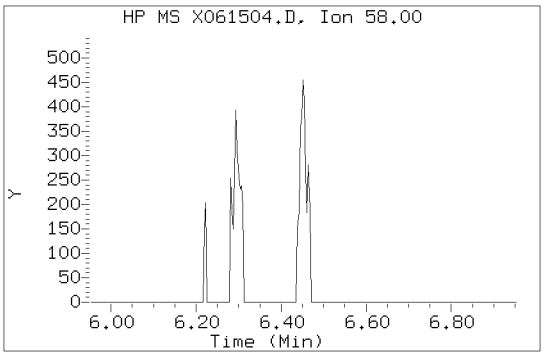
AFTER
MASS
88
AREA
722
HEIGHT
431
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
58
AREA
343
HEIGHT
310
12-Jul-2024
11:38
s
zaid



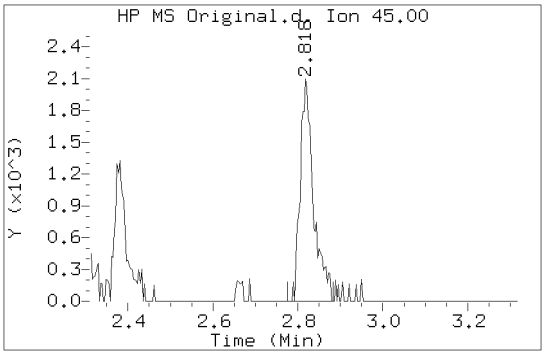
AFTER
MASS
58
AREA
343
HEIGHT
310
12-Jul-2024
11:38
s
zaid



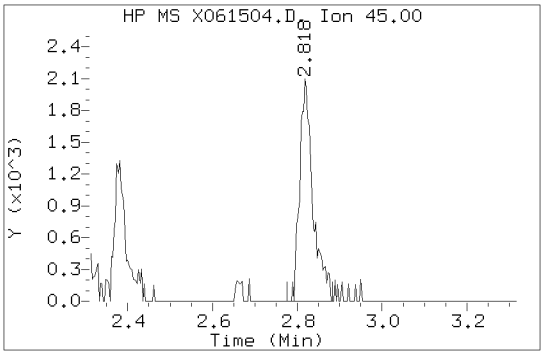
Isopropyl alcohol (67-63-0)

Reason Code:

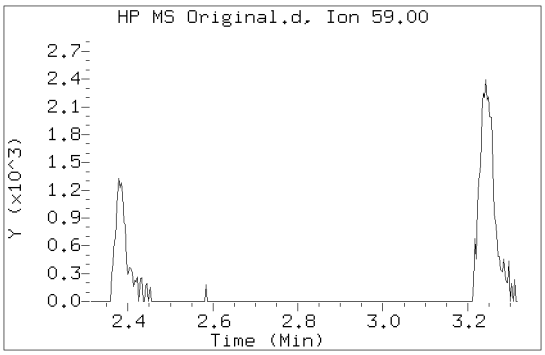
BEFORE
MASS
45
AREA
4553
HEIGHT
2097
12-Jul-2024
11:38
s
zaid



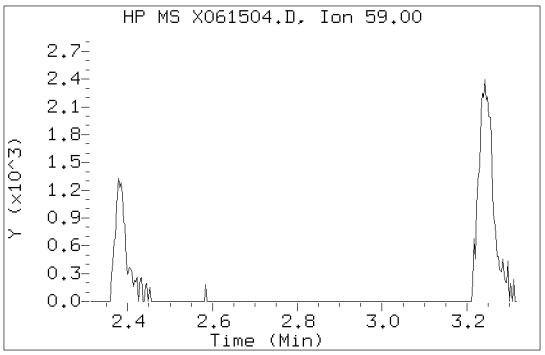
AFTER
MASS
45
AREA
4553
HEIGHT
2097
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
59
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER
MASS
59
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



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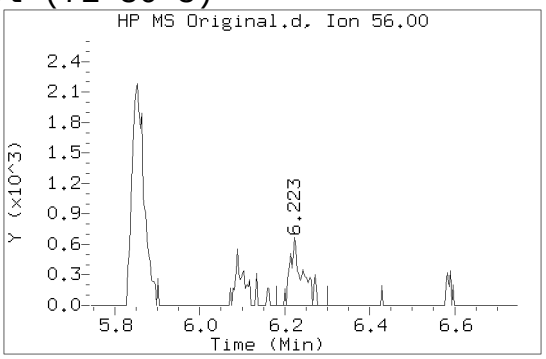
Inj Date : 15-JUN-2024 14:46
InstruID : voa7.i
LabSampID : VSTD002

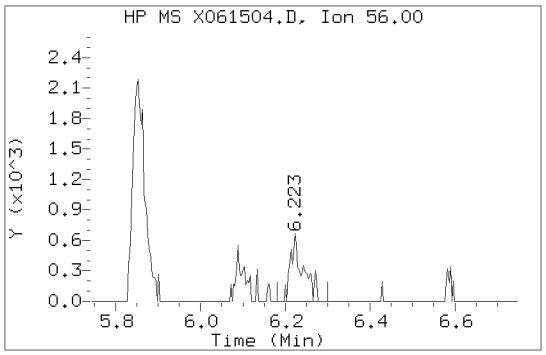
n-Butanol (71-36-3)

Reason Code:

BEFORE
MASS
56
AREA
1394
HEIGHT
672
12-Jul-2024
11:38
s
zaid



AFTER
MASS
56
AREA
1394
HEIGHT
672
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
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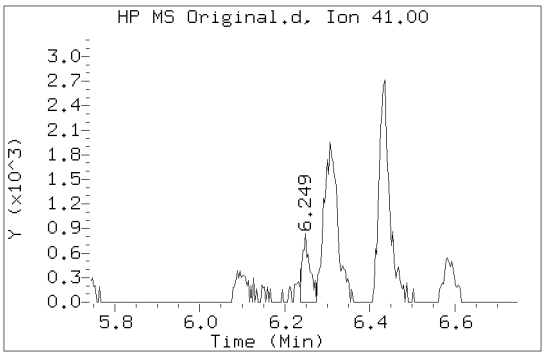
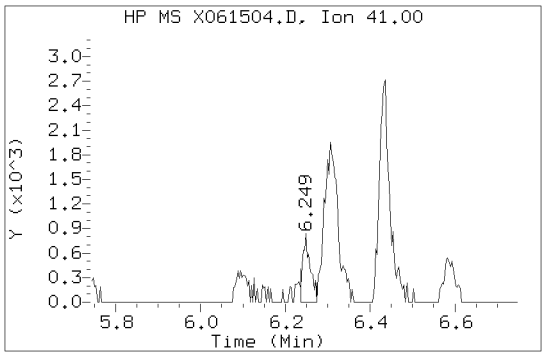
AREA
1030
HEIGHT
838
12-Jul-2024
11:38
s
zaid



AFTER
MASS
41
AREA
1030
HEIGHT
838
12-Jul-2024
11:38
s
zaid



BEFORE
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AREA
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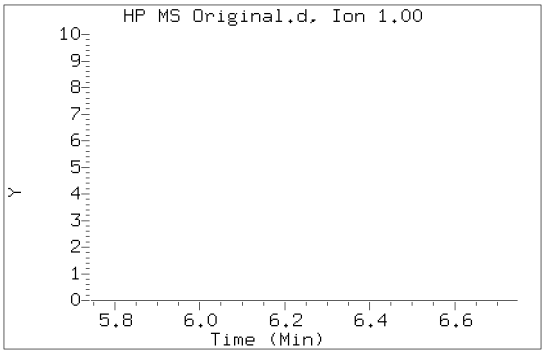
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER
MASS
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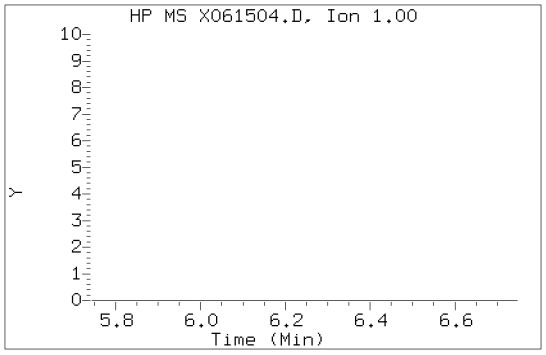
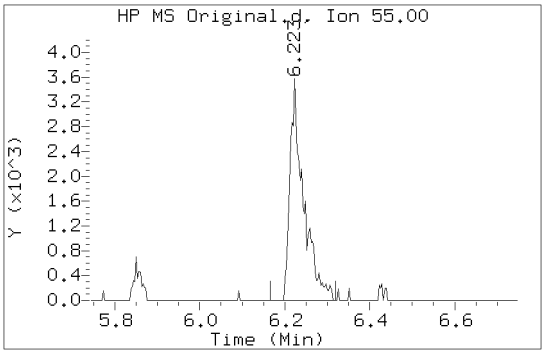
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



Ethyl Acrylate (140-88-5)

Reason Code:

BEFORE
MASS
55
AREA
7923
HEIGHT
3575
12-Jul-2024
11:38
s
zaid



AFTER
MASS
55
AREA
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HEIGHT
3575
12-Jul-2024
11:38
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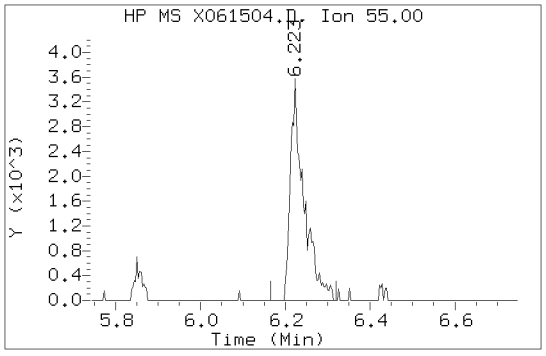
zaid



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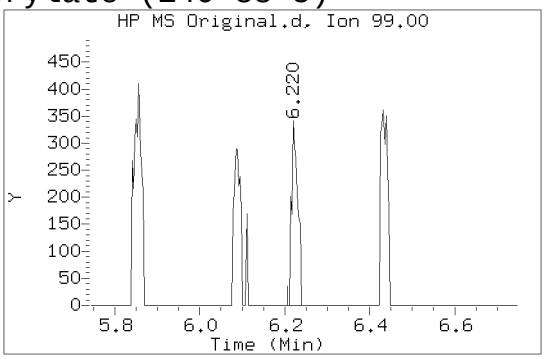
Inj Date : 15-JUN-2024 14:46
InstruID : voa7.i
LabSampID : VSTD002

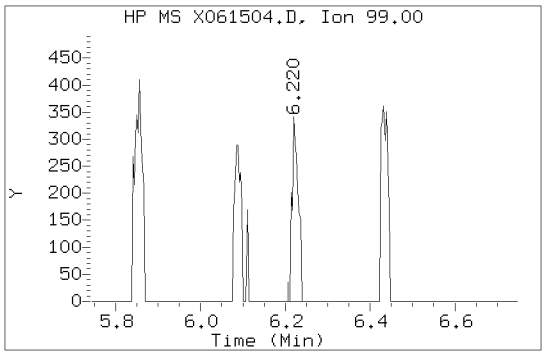
Ethyl Acrylate (140-88-5)

BEFORE
MASS
99
AREA
347
HEIGHT
342
12-Jul-2024
11:38
s
zaid



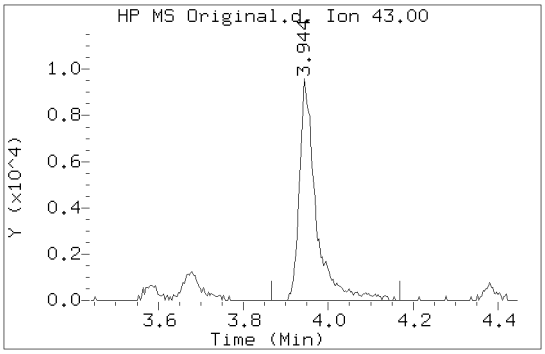
Reason Code:

AFTER
MASS
99
AREA
347
HEIGHT
342
12-Jul-2024
11:38
s
zaid



Ethyl Acetate (141-78-6)

BEFORE
MASS
43
AREA
25930
HEIGHT
9589
12-Jul-2024
11:38
s
zaid



Reason Code:

AFTER
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43
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25930
HEIGHT
9589
12-Jul-2024
11:38
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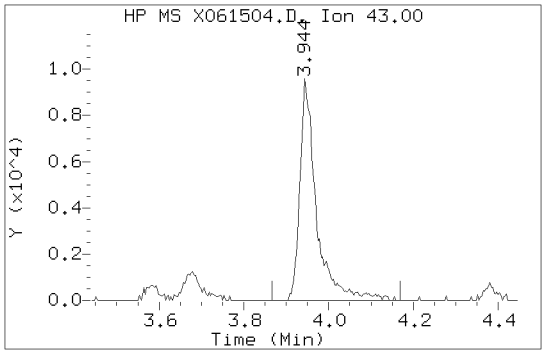
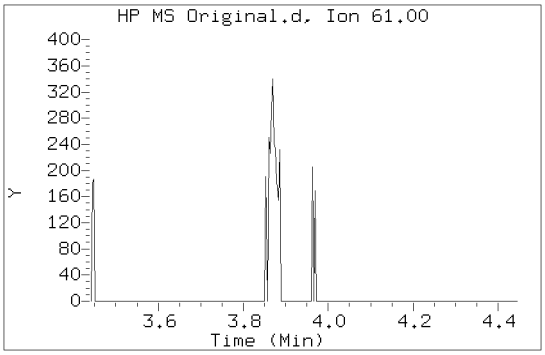
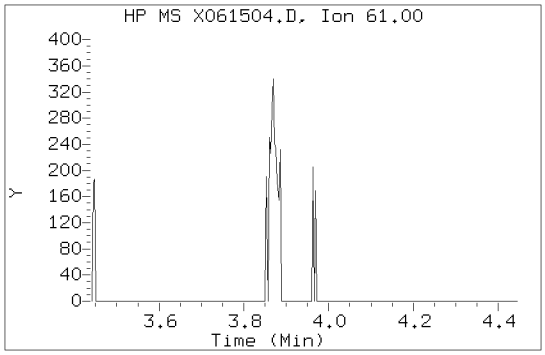
zaid



BEFORE
MASS
61
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER
MASS
61
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
70
AREA
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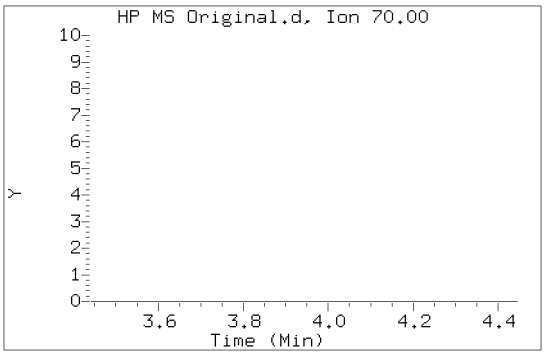
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER
MASS
70
AREA
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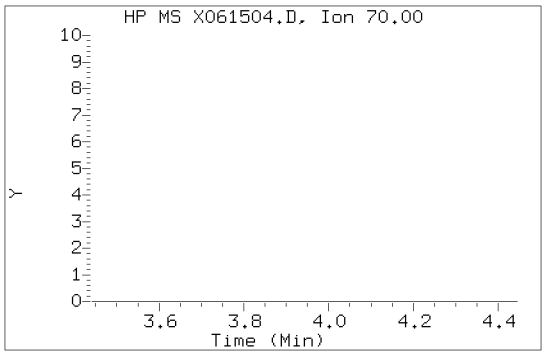
HEIGHT
0
12-Jul-2024
11:38
s
zaid



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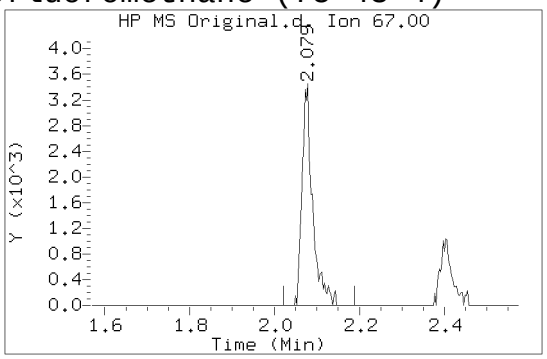
Inj Date : 15-JUN-2024 14:46
InstruID : voa7.i
LabSampID : VSTD002

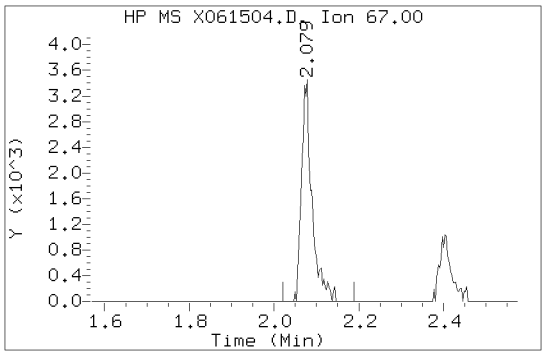
Dichlorofluoromethane (75-43-4)

Reason Code:

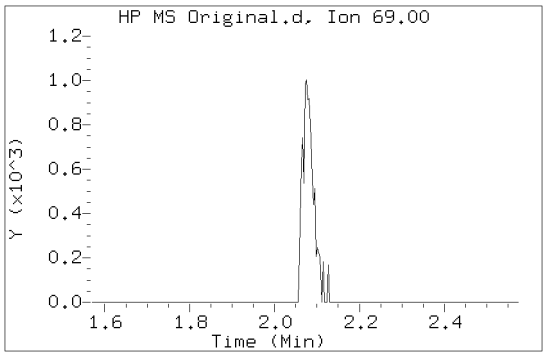
BEFORE
MASS
67
AREA
5948
HEIGHT
3453
12-Jul-2024
11:38
s
zaid



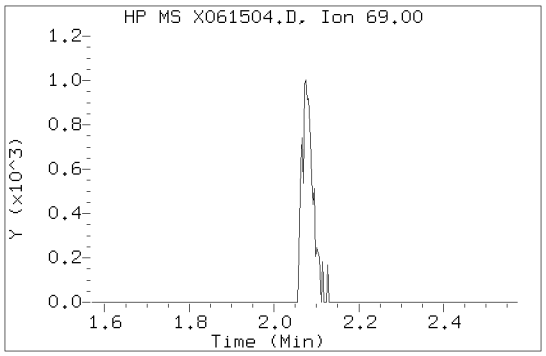
AFTER
MASS
67
AREA
5948
HEIGHT
3453
12-Jul-2024
11:38
s
zaid



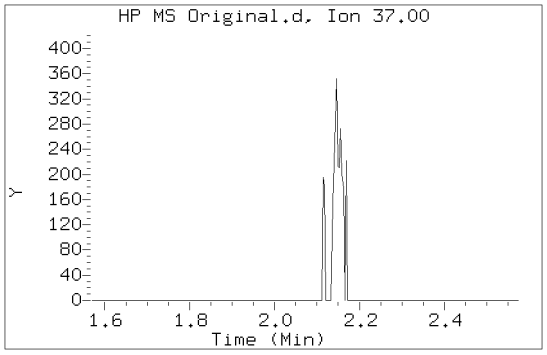
BEFORE
MASS
69
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



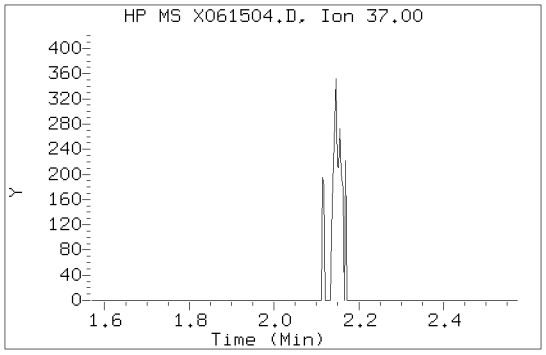
AFTER
MASS
69
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
37
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



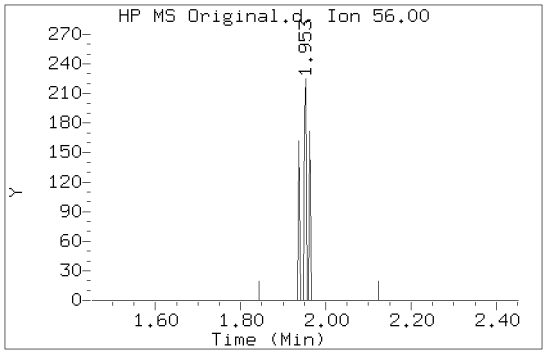
AFTER
MASS
37
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



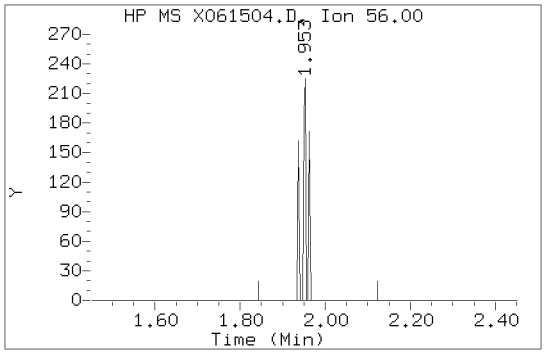
Isobutylene (115-11-7)

Reason Code:

BEFORE
MASS
56
AREA
144
HEIGHT
225
12-Jul-2024
11:38
s
zaid



AFTER
MASS
56
AREA
144
HEIGHT
225
12-Jul-2024
11:38
s
zaid



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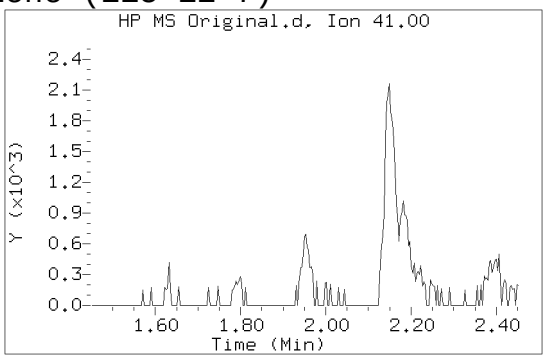
Inj Date : 15-JUN-2024 14:46
InstruID : voa7.i
LabSampID : VSTD002

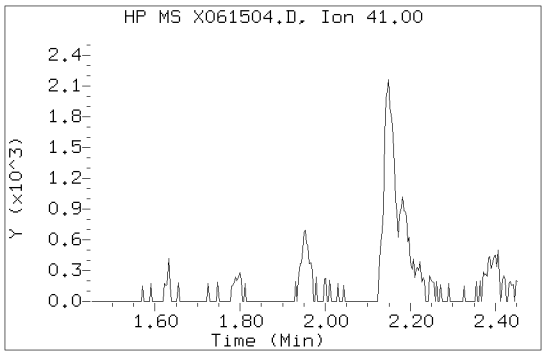
Isobutylene (115-11-7)

Reason Code:

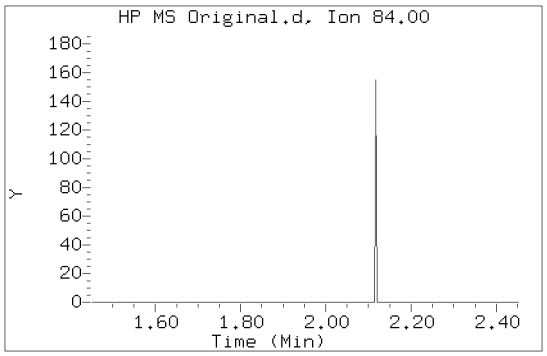
BEFORE
MASS
41
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



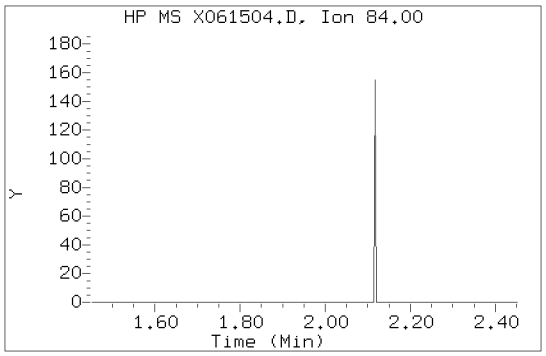
AFTER
MASS
41
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
84
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



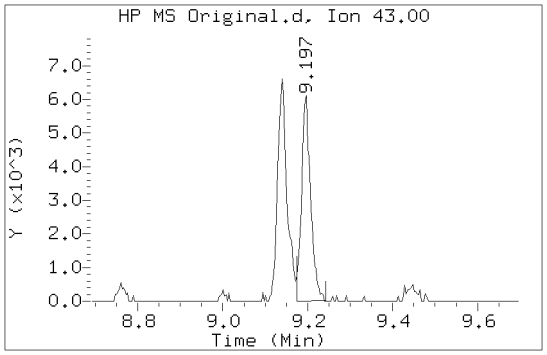
AFTER
MASS
84
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



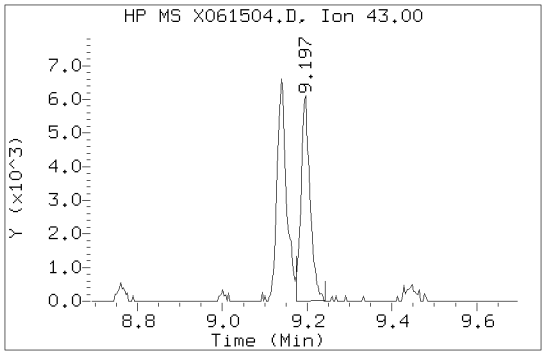
n-Amyl acetate (628-63-7)

Reason Code:

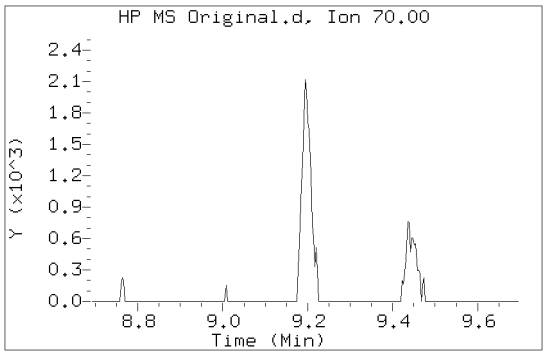
BEFORE
MASS
43
AREA
9084
HEIGHT
6100
12-Jul-2024
11:38
s
zaid



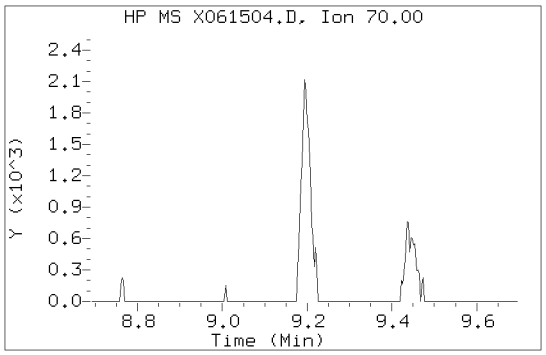
AFTER
MASS
43
AREA
9084
HEIGHT
6100
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
70
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER
MASS
70
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



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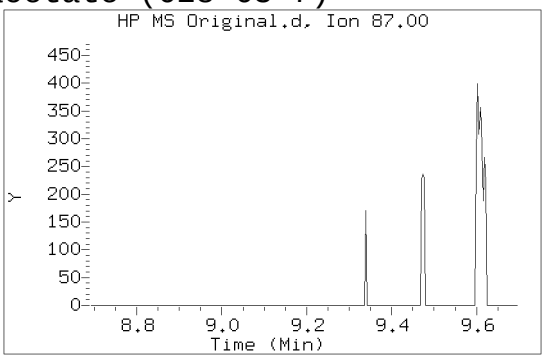
Inj Date : 15-JUN-2024 14:46
InstruID : voa7.i
LabSampID : VSTD002

n-Amyl acetate (628-63-7)

Reason Code:

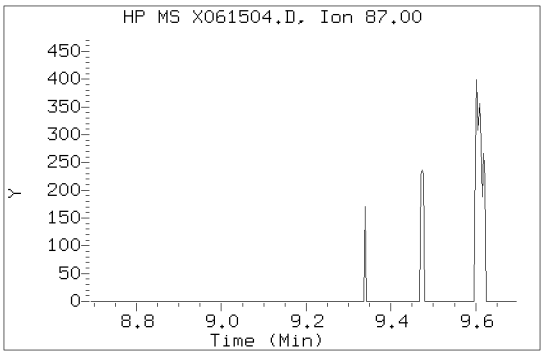
BEFORE

MASS
87
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
87
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



Acetaldehyde (75-07-0)

Reason Code:

BEFORE

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44
AREA
2195
HEIGHT
1619
12-Jul-2024
11:38
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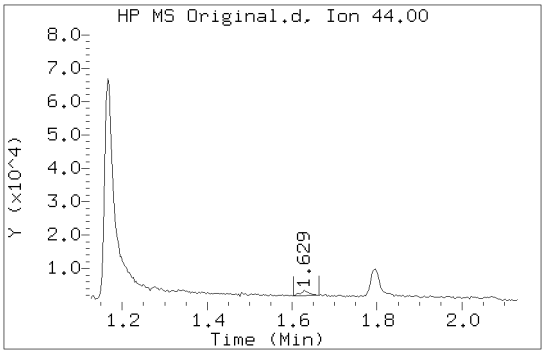
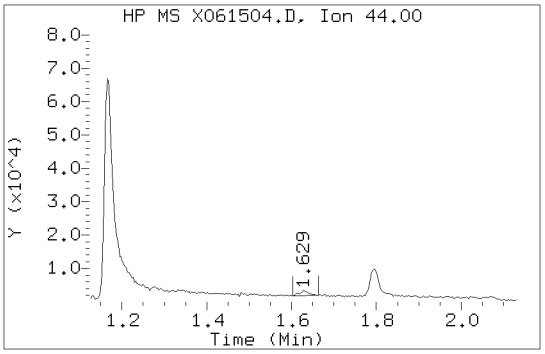
zaid



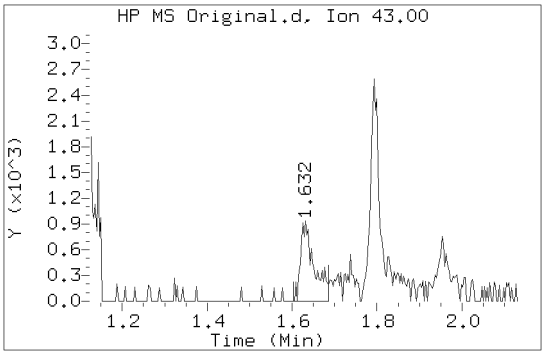
AFTER

MASS
44
AREA
2195
HEIGHT
1619
12-Jul-2024
11:38
s
zaid



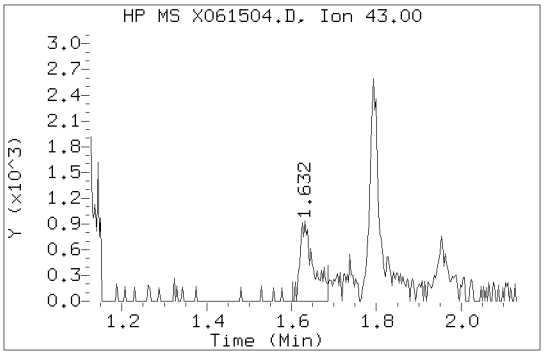
BEFORE

MASS
43
AREA
2080
HEIGHT
934
12-Jul-2024
11:38
s
zaid



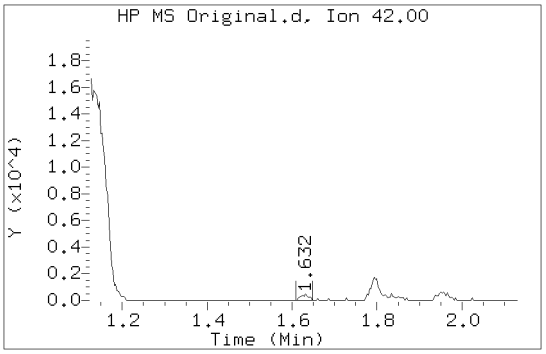
AFTER

MASS
43
AREA
2080
HEIGHT
934
12-Jul-2024
11:38
s
zaid



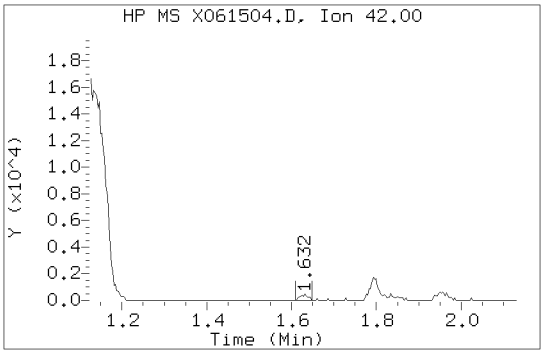
BEFORE

MASS
42
AREA
566
HEIGHT
477
12-Jul-2024
11:38
s
zaid



AFTER

MASS
42
AREA
566
HEIGHT
477
12-Jul-2024
11:38
s
zaid



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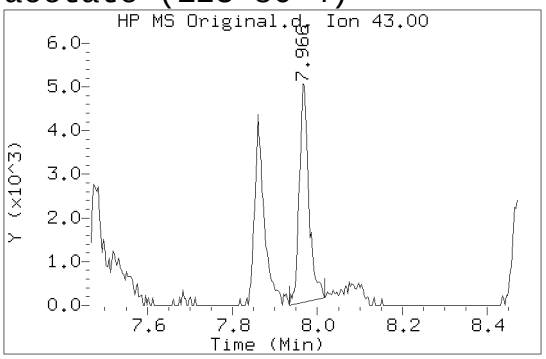
Inj Date : 15-JUN-2024 14:46
InstruID : voa7.i
LabSampID : VSTD002

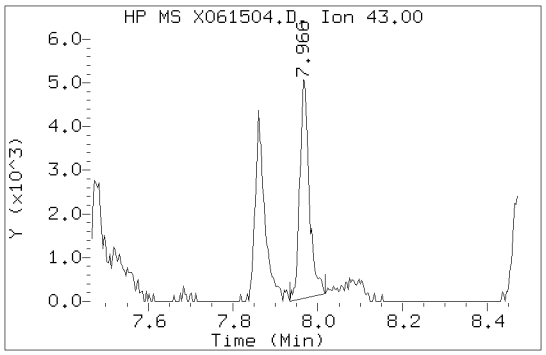
n-Butyl acetate (123-86-4)

Reason Code:

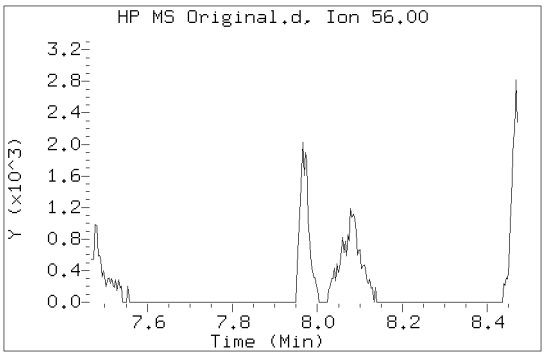
BEFORE
MASS
43
AREA
7800
HEIGHT
5002
12-Jul-2024
11:38
s
zaid



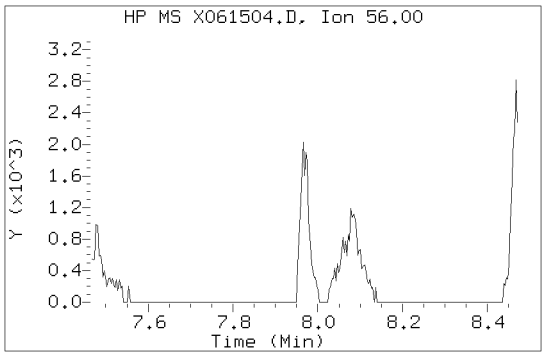
AFTER
MASS
43
AREA
7800
HEIGHT
5002
12-Jul-2024
11:38
s
zaid



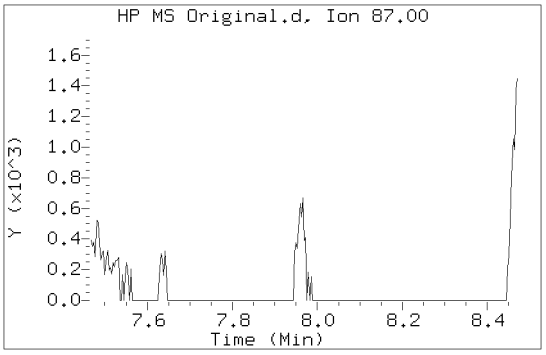
BEFORE
MASS
56
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



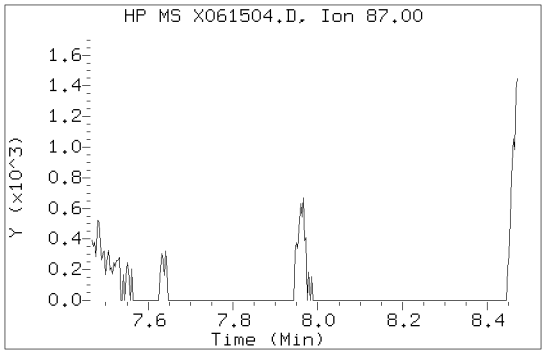
AFTER
MASS
56
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
87
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



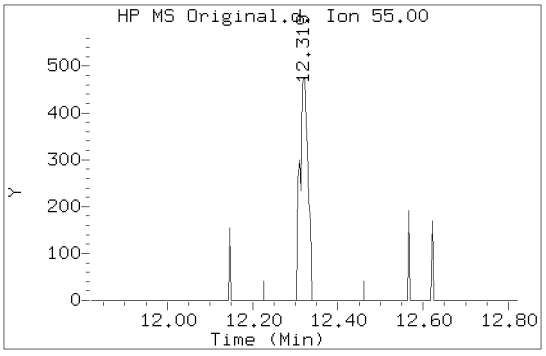
AFTER
MASS
87
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



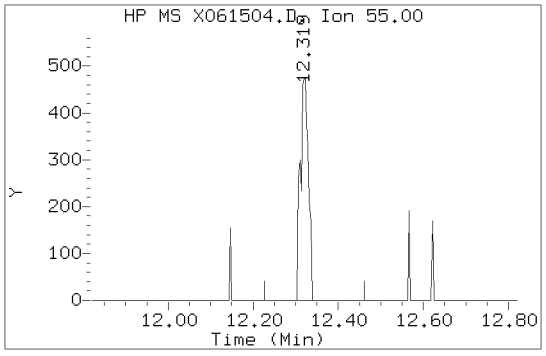
2-Etyhlhexyl Acrylate (103-11-7)

Reason Code:

BEFORE
MASS
55
AREA
633
HEIGHT
473
12-Jul-2024
11:38
s
zaid



AFTER
MASS
55
AREA
633
HEIGHT
473
12-Jul-2024
11:38
s
zaid



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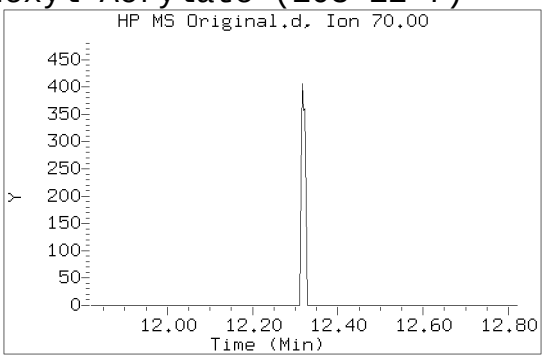
Inj Date : 15-JUN-2024 14:46
InstruID : voa7.i
LabSampID : VSTD002

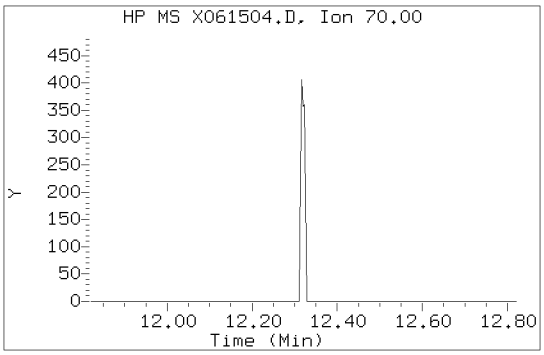
2-Etyhlhexyl Acrylate (103-11-7)

Reason Code:

BEFORE
MASS
70
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



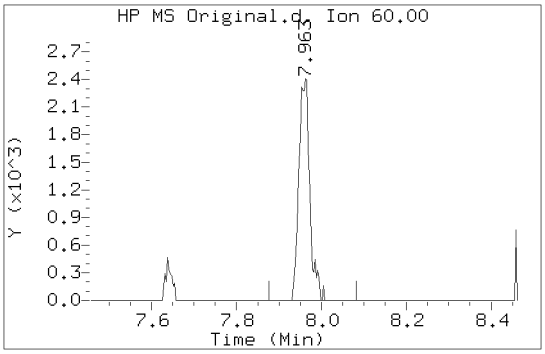
AFTER
MASS
70
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



Tetrahydrothiophene (110-01-0)

Reason Code:

BEFORE
MASS
60
AREA
4279
HEIGHT
2408
12-Jul-2024
11:38
s
zaid



AFTER
MASS
60
AREA
4279
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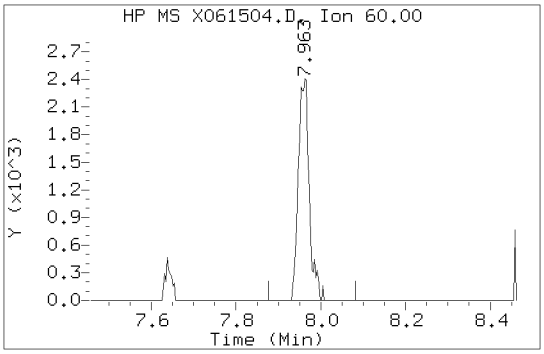

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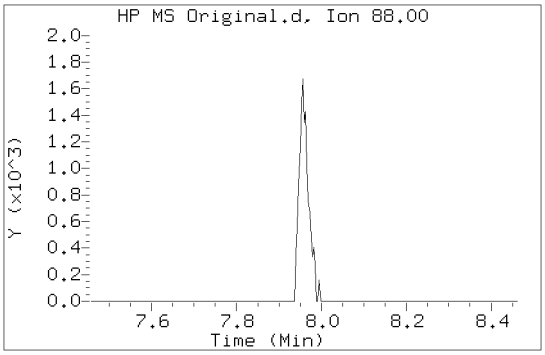

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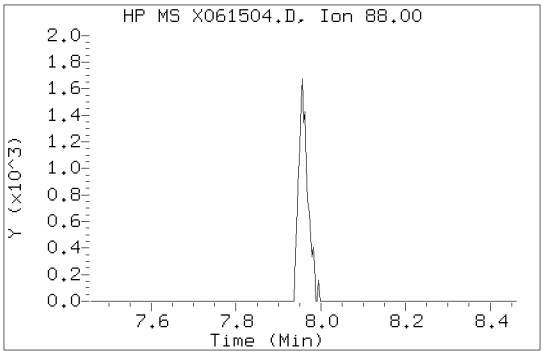

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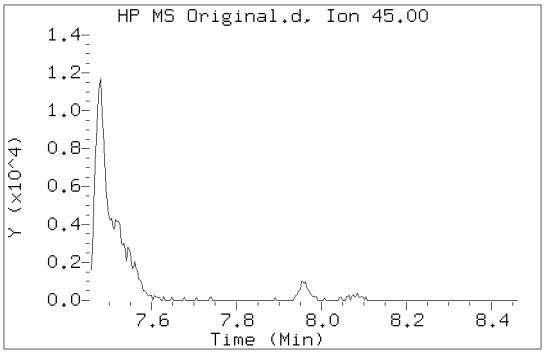

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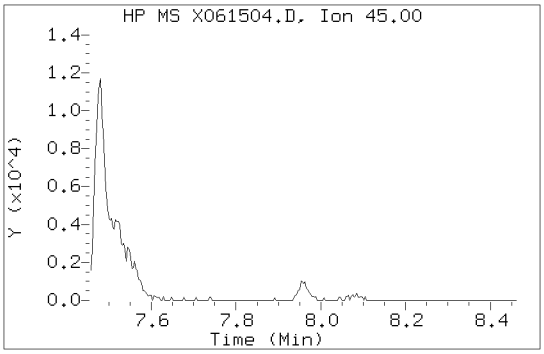

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sec-Butyl Ether (6863-58-7)

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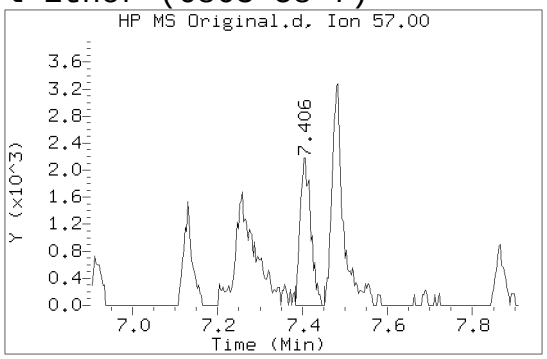

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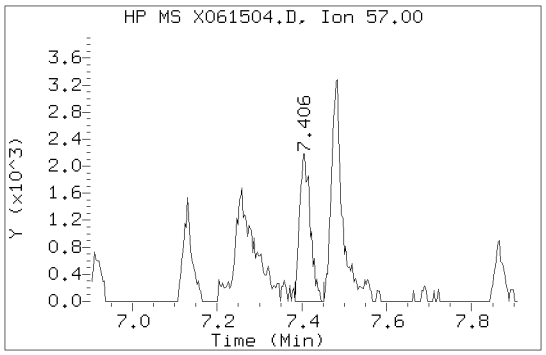

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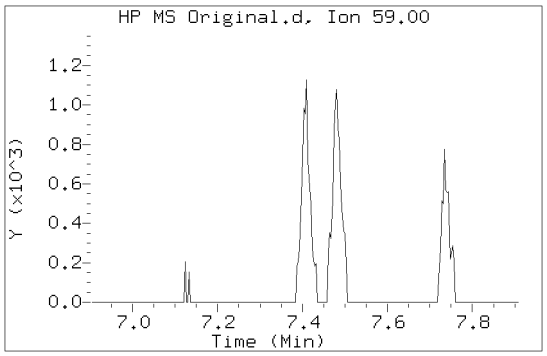

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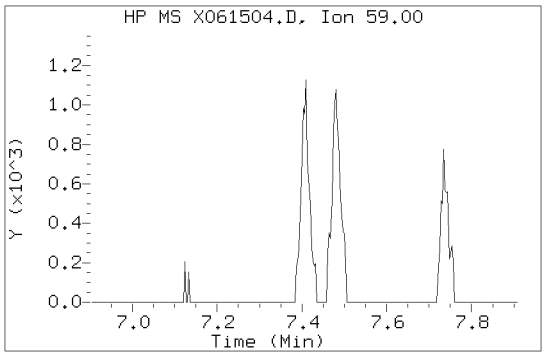

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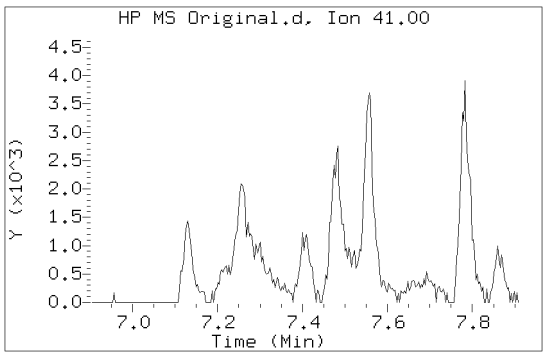

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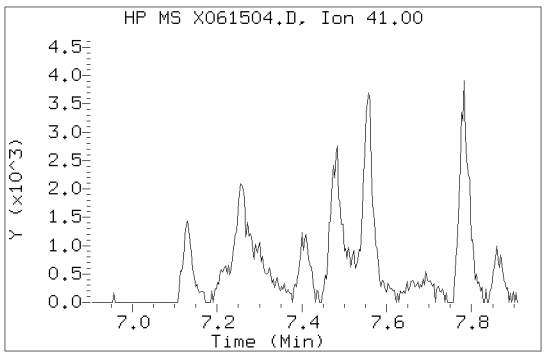

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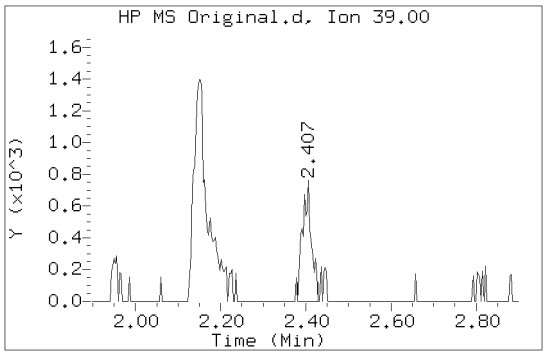

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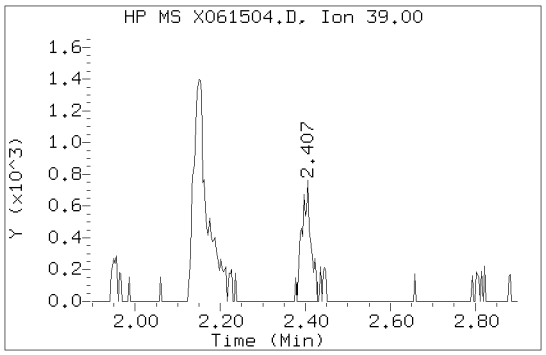

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Isoprene (78-79-5)

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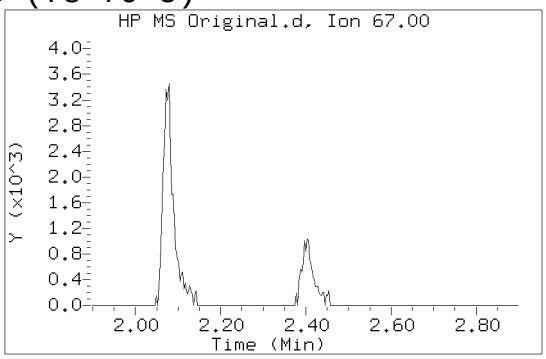

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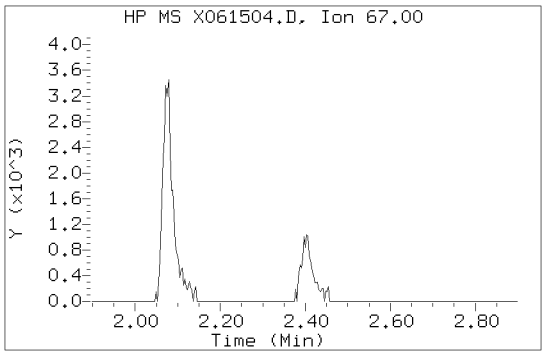

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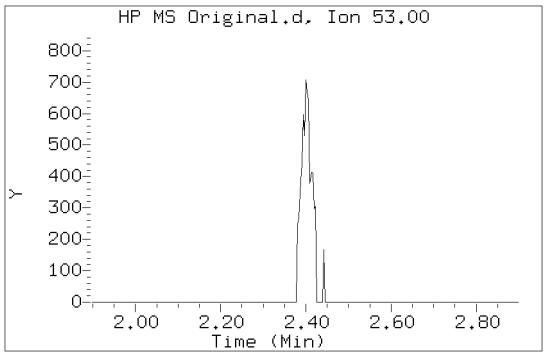

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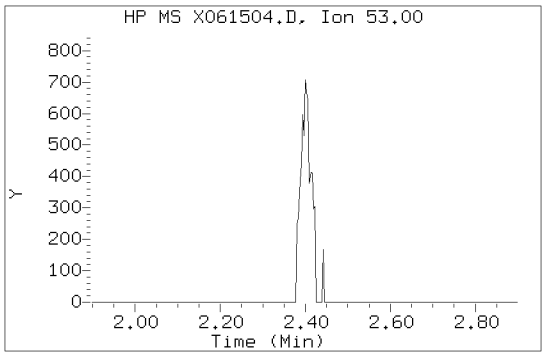

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Report Date: 12-Jul-2024 11:38

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061505.D
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Inj Date : 15-JUN-2024 15:09
Operator : AP Inst ID: voa7.i
Smp Info : VSTD005;VSTD005;1;4
Misc Info : HS220328V7;WATER;0;1;
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Meth Date : 12-Jul-2024 11:38 voa7.i Quant Type: ISTD
Cal Date : 15-JUN-2024 14:46 Cal File: X061504.D
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

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)	125535	50.0000	
2 Dichlorodifluoromethane	85	1.297	1.297	(0.253)	7225	5.00000	5.11
159 Dichlorofluoromethane	67	2.072	2.072	(0.404)	13800	5.00000	5.27
3 Chloromethane	50	1.448	1.448	(0.282)	11605	5.00000	5.13
4 Propionitrile	54	4.670	4.670	(0.910)	8704	50.0000	42.47
5 Vinyl Chloride	62	1.535	1.535	(0.299)	9844	5.00000	5.43
6 Bromomethane	94	1.808	1.808	(0.352)	5926	5.00000	4.98
7 Chloroethane	64	1.898	1.898	(0.370)	6277	5.00000	5.46
8 Trichlorofluoromethane	101	2.110	2.110	(0.411)	13237	5.00000	5.45
9 Acrolein	56	2.522	2.522	(0.491)	323	10.0000	9.13
10 Acetone	43	2.670	2.670	(0.520)	6604	10.0000	10.04
11 1,1-Dichloroethene	96	2.593	2.593	(0.505)	6851	5.00000	5.44
12 Isobutyl Alcohol	43	5.570	5.570	(1.085)	23318	100.000	95.18
13 Acetonitrile	39	2.966	2.966	(0.578)	10962	50.0000	50.76
14 Allyl Chloride	41	2.959	2.959	(0.577)	21819	5.00000	4.55
15 Iodomethane	142	2.744	2.744	(0.535)	13007	10.0000	11.46
16 Acrylonitrile	53	3.384	3.384	(0.659)	3482	10.0000	7.03
17 Methylene Chloride	84	3.091	3.091	(0.602)	9761	5.00000	5.00
18 Methyl tert-butyl ether	73	3.384	3.384	(0.659)	18018	5.00000	5.31
19 Carbon Disulfide	76	2.795	2.795	(0.545)	45001	10.0000	10.83

20 trans-1,2-Dichloroethene	96	3.377	3.377 (0.658)	7190	5.00000	5.11
21 Vinyl Acetate	43	4.660	4.660 (0.908)	9154	10.0000	9.96(M)

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061505.D Page 2
Report Date: 12-Jul-2024 11:38

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
22	1,1-Dichloroethane	63	3.859	3.859	(0.752)	14844	5.00000	5.02
23	Chloroprene	53	3.969	3.969	(0.773)	12691	5.00000	5.38
24	2-Butanone	43	4.599	4.599	(0.896)	8477	10.0000	10.57
25	Methacrylonitrile	41	2.146	2.146	(0.418)	11271	5.00000	5.38
26	2,2-Dichloropropane	77	4.531	4.531	(0.883)	12743	5.00000	5.08
27	cis-1,2-Dichloroethene	96	4.544	4.544	(0.885)	8496	5.00000	5.19
28	Chloroform	83	4.904	4.904	(0.956)	14700	5.00000	4.78
29	Bromochloromethane	128	4.811	4.811	(0.937)	3897	5.00000	4.97
$ 30	Dibromofluoromethane	113	5.075	5.075	(0.989)	7541	5.00000	4.64
31	1,1,1-Trichloroethane	97	5.072	5.072	(0.988)	11751	5.00000	4.98
32	1,1-Dichloropropene	75	5.245	5.245	(0.896)	11612	5.00000	5.87
33	1,2-Dichloroethane	62	5.490	5.490	(0.938)	12357	5.00000	5.16
34	Carbon Tetrachloride	117	5.236	5.236	(0.895)	10309	5.00000	5.88
$ 35	1,2-Dichloroethane-d4	65	5.416	5.416	(1.055)	9398	5.00000	4.46
* 36	1,4-Difluorobenzene	114	5.853	5.853	(1.000)	205490	50.0000	
37	Benzene	78	5.458	5.458	(0.932)	31340	5.00000	5.29
38	Trichloroethene	130	6.088	6.088	(1.040)	8145	5.00000	5.62
39	Bromodichloromethane	83	6.570	6.570	(1.122)	11228	5.00000	4.90
40	Methyl Methacrylate	41	6.432	6.432	(1.253)	8143	5.00000	4.50
41	2-Chloroethylvinyl ether	63	6.859	6.859	(1.172)	5890	10.0000	9.59
42	1,2-Dichloropropane	63	6.310	6.310	(1.078)	8231	5.00000	4.83
43	2-Nitropropane	43	6.802	6.802	(1.325)	2378	5.00000	5.59
44	Dibromomethane	93	6.416	6.416	(1.096)	4876	5.00000	5.37
45	4-Methyl-2-Pentanone	43	7.129	7.129	(0.842)	18025	10.0000	10.51
46	cis-1,3-Dichloropropene	75	6.978	6.978	(1.192)	12123	5.00000	5.76
* 47	Chlorobenzene-d5	117	8.467	8.467	(1.000)	198496	50.0000	
$ 48	Toluene-d8	98	7.203	7.203	(0.851)	25974	5.00000	4.14
49	Ethyl Methacrylate	69	8.078	8.078	(1.380)	8382	5.00000	4.84
50	Toluene	91	7.265	7.265	(0.858)	32403	5.00000	4.97
51	trans-1,3-Dichloropropene	75	6.978	6.978	(1.192)	12123	5.00000	5.76
52	2-Hexanone	43	7.863	7.863	(0.929)	11468	10.0000	8.76
53	1,1,2-Trichloroethane	83	7.637	7.637	(0.902)	6253	5.00000	4.91
54	1,3-Dichloropropane	76	7.782	7.782	(0.919)	13167	5.00000	4.88
55	Dibromochloromethane	129	7.978	7.978	(0.942)	7802	5.00000	4.79
56	Tetrachloroethene	164	7.740	7.740	(0.914)	6024	5.00000	5.28
57	1,2-Dibromoethane	107	8.068	8.068	(0.953)	6959	5.00000	5.14
58	1-Chlorohexane	55	8.467	8.467	(1.447)	9909	5.00000	4.95
59	Chlorobenzene	112	8.493	8.493	(1.003)	22124	5.00000	5.17
60	1,1,1,2-Tetrachloroethane	131	8.563	8.563	(1.011)	7002	5.00000	5.50
61	Ethylbenzene	106	8.586	8.586	(1.014)	11221	5.00000	5.18
62	m,p-Xylenes	106	8.682	8.682	(1.025)	27245	10.0000	9.99
63	o-Xylene	106	9.023	9.023	(1.066)	13725	5.00000	5.06
64	Styrene	104	9.039	9.039	(1.068)	23337	5.00000	4.96
66	Bromoform	173	9.207	9.207	(1.087)	4925	5.00000	4.80
67	Isopropylbenzene	105	9.338	9.338	(1.103)	33644	5.00000	5.12
68	1,1,2,2-Tetrachloroethane	83	9.608	9.608	(0.919)	9701	5.00000	5.26
$ 69	4-Bromofluorobenzene	95	9.473	9.473	(1.119)	12049	5.00000	4.54
* 70	1,4-Dichlorobenzene-d4	152	10.457	10.457	(1.000)	97733	50.0000	
71	1,2,3-Trichloropropane	75	9.647	9.647	(0.923)	11078	5.00000	5.44
72	trans-1,4-Dichloro-2-butene	53	9.653	9.653	(1.140)	2178	5.00000	5.19
73	n-Propylbenzene	91	9.689	9.689	(0.927)	40578	5.00000	5.57
74	Bromobenzene	156	9.602	9.602	(0.918)	8991	5.00000	5.48

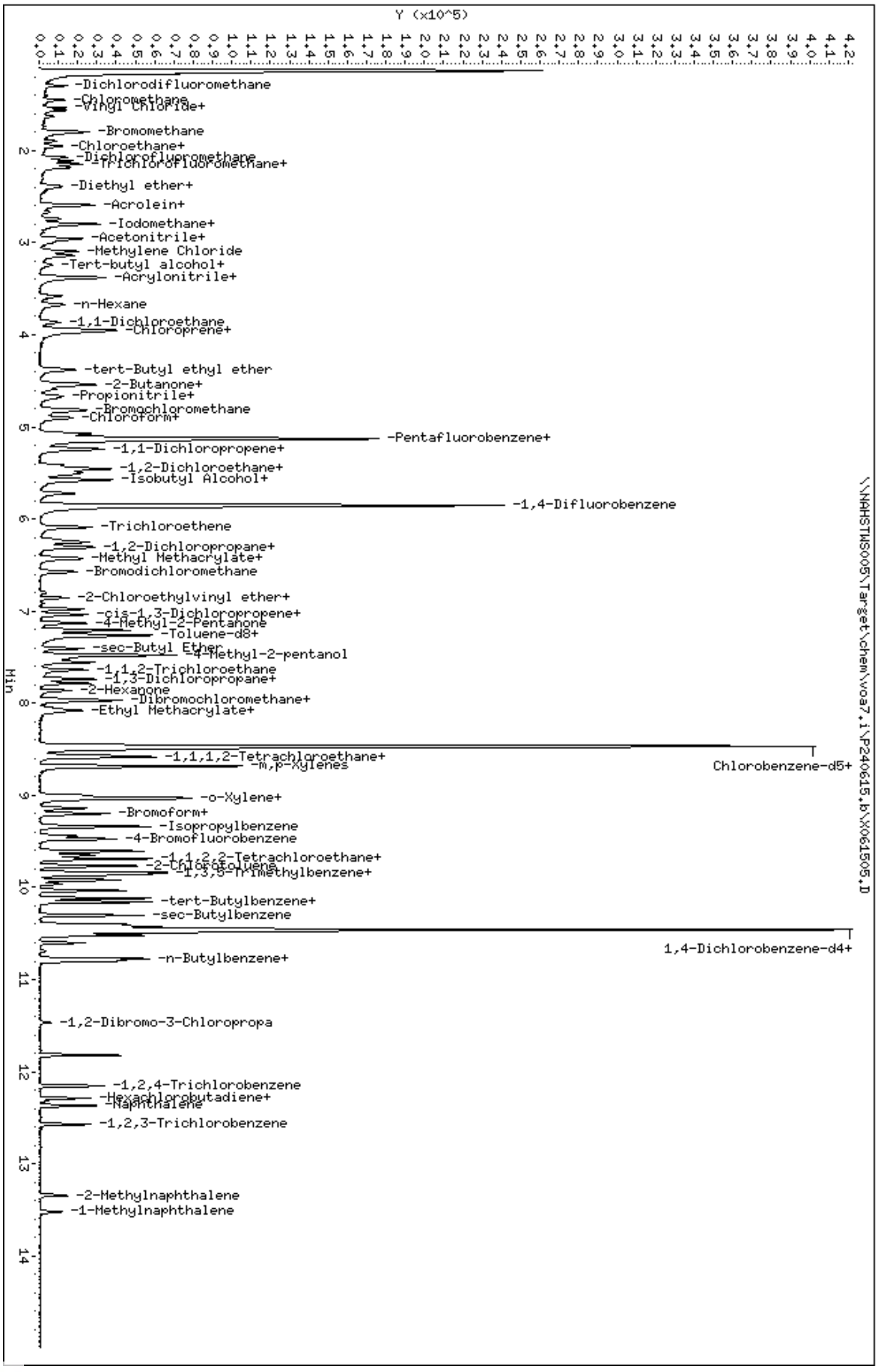
75	1,3,5-Trimethylbenzene	105	9.837	9.837 (0.941)	29207	5.00000	5.75
76	2-Chlorotoluene	91	9.766	9.766 (0.934)	25653	5.00000	5.37

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061505.D Page 3
Report Date: 12-Jul-2024 11:38

	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)	30030	5.00000	5.49
78	tert-Butylbenzene	119	10.116	10.116	(0.967)	24227	5.00000	5.41
79	1,2,4-Trimethylbenzene	105	10.155	10.155	(0.971)	28869	5.00000	5.44
81	sec-Butylbenzene	105	10.303	10.303	(0.985)	32307	5.00000	5.59
82	p-Isopropyltoluene	119	10.425	10.425	(0.997)	28883	5.00000	5.54
83	1,3-Dichlorobenzene	146	10.403	10.403	(0.995)	16526	5.00000	5.53
84	1,4-Dichlorobenzene	146	10.477	10.477	(1.002)	17198	5.00000	5.37
87	n-Butylbenzene	91	10.772	10.772	(1.030)	26108	5.00000	5.17
88	1,2-Dichlorobenzene	146	10.798	10.798	(1.033)	14740	5.00000	5.06
89	1,2-Dibromo-3-Chloropropane	75	11.460	11.460	(1.096)	1305	5.00000	4.51
90	1,2,4-Trichlorobenzene	180	12.155	12.155	(1.162)	9039	5.00000	5.61
91	Hexachlorobutadiene	225	12.290	12.290	(1.175)	4213	5.00000	5.40
92	Naphthalene	128	12.367	12.367	(1.183)	19723	5.00000	4.70
93	1,2,3-Trichlorobenzene	182	12.573	12.573	(1.202)	7315	5.00000	4.79
135	1,4-Dioxane	88	6.451	6.451	(1.257)	1050	100.000	90.21(M)
146	Methyl acetate	43	2.998	2.998	(0.584)	5521	5.00000	4.61(a)
138	Freon TF	101	2.593	2.593	(0.505)	6709	5.00000	5.51
139	Diethyl ether	59	2.377	2.377	(0.463)	4126	5.00000	4.50
140	1,3-Butadiene	54	1.564	1.564	(0.305)	3822	5.00000	5.37
141	Cyclohexane	56	5.113	5.113	(0.996)	14123	5.00000	5.75
147	Methylcyclohexane	83	6.245	6.245	(1.067)	9878	5.00000	6.65
132	n-Butanol	56	6.255	6.255	(1.219)	4028	100.000	100.76(T)
131	Methyl Acrylate	55	4.692	4.692	(0.914)	7951	5.00000	4.63
133	Ethyl Acrylate	55	6.245	6.245	(1.217)	18272	5.00000	5.17
136	n-Hexane	57	3.676	3.676	(0.716)	7851	5.00000	5.55
142	Tetrahydrofuran	42	4.866	4.866	(0.948)	2220	10.0000	10.80
148	Tert-butyl alcohol	59	3.242	3.242	(0.632)	9103	100.000	98.25
149	Isopropyl alcohol	45	2.818	2.818	(0.549)	7128	100.000	85.32(M)
151	4-Methyl-2-pentanol	45	7.477	7.477	(0.883)	52716	100.000	95.57
166	1,2,3-Trimethylbenzene	105	10.518	10.518	(1.006)	25001	5.00000	4.96
167	Ethanol	45	2.300	2.300	(0.448)	1493	100.000	113.43
172	tert-Butyl formate	59	3.242	3.242	(0.632)	9103	10.0000	9.52
173	3,3-Dimethyl-1-butanol	57	8.088	8.088	(0.955)	9707	100.000	80.94
174	tert-Amyl methyl ether	73	5.573	5.573	(1.086)	20716	5.00000	5.24
175	tert-Butyl ethyl ether	59	4.384	4.384	(0.854)	20056	5.00000	4.68
157	2-Methylnaphthalene	142	13.345	13.345	(1.276)	7014	5.00000	4.59
156	Diisopropyl ether	45	3.950	3.950	(0.769)	24035	5.00000	4.82(T)
171	1-Methylnaphthalene	142	13.525	13.525	(1.293)	5970	5.00000	4.42
130	Ethyl Acetate	43	3.943	3.943	(0.768)	44597	5.00000	5.22(T)
176	tert-Amyl alcohol	59	5.512	5.512	(1.074)	7972	100.000	85.26
160	Epichlorohydrin	57	6.917	6.917	(1.182)	1794	20.0000	21.33
161	Butyl acrylate	55	8.998	8.998	(1.063)	16083	5.00000	4.99(a)
182	Isobutylene	56	1.950	1.950	(0.380)	901	5.00000	5.37(AM)
183	Isopropyl Acetate	43	5.570	5.570	(0.952)	23318	5.00000	5.11(A)
184	n-Amyl acetate	43	9.194	9.194	(1.086)	16091	5.00000	5.43(AM)
185	Acetaldehyde	44	1.625	1.625	(0.317)	4414	20.0000	17.97(AM)
186	n-Butyl acetate	43	7.969	7.969	(0.941)	12732	5.00000	4.63(aAM)
187	2-Etyhlhexyl Acrylate	55	12.319	12.319	(1.178)	1446	5.00000	4.61(aAM)
188	Tetrahydrothiophene	60	7.959	7.959	(0.940)	7400	5.00000	4.56(aAM)
189	sec-Butyl Ether	57	7.406	7.406	(0.875)	8224	5.00000	4.03(aAM)
190	Isoprene	39	2.403	2.403	(0.468)	2371	5.00000	6.46(AM)
191	2-Chloropropene	41	2.146	2.146	(0.418)	11271	5.00000	5.21(A)

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 : 15-JUN-2024 15:09
Client ID: VSTD005
Sample Info: VSTD005;VSTD005;1;4
Purge Volume: 5.0
Column phase: DB624

Instrument: voa7.i
Operator: AP
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061505.D
Inj Date : 15-JUN-2024 15:09
InstruID : voa7.i
LabSampID : VSTD005

Vinyl Acetate (108-05-4)

Reason Code:

BEFORE

MASS
43
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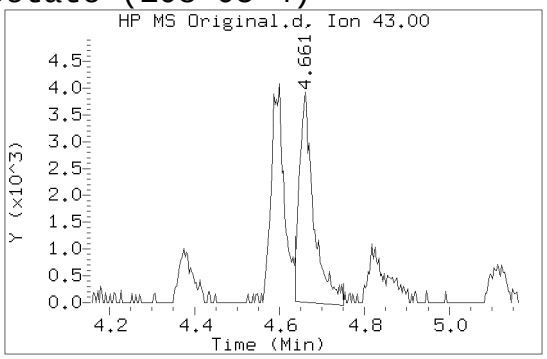
9154
HEIGHT
3923
12-Jul-2024
11:38
s
zaid



AFTER

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12-Jul-2024
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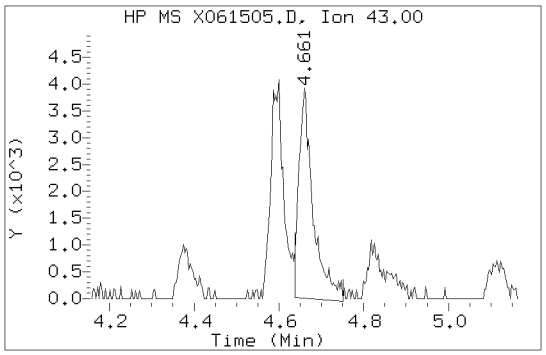

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11:38
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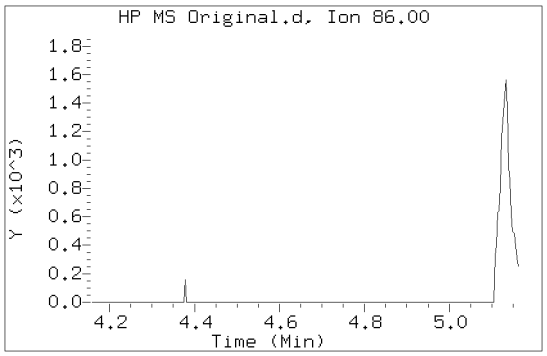

AFTER

MASS
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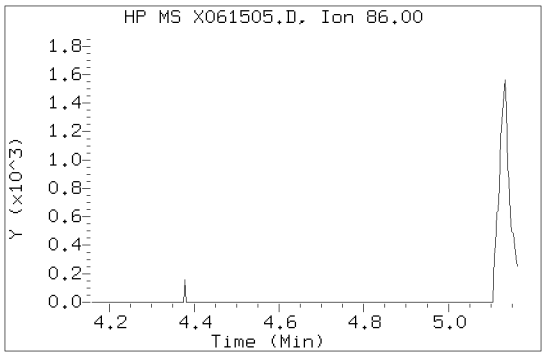

1,4-Dioxane ()

Reason Code:

BEFORE

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11:38
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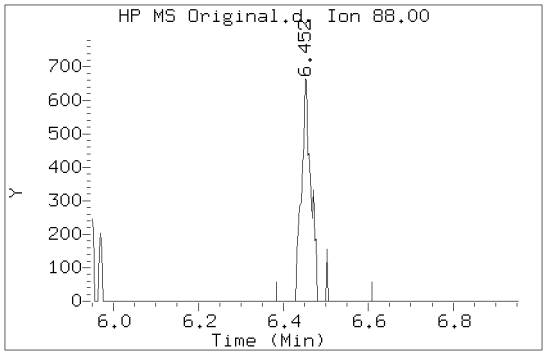

AFTER

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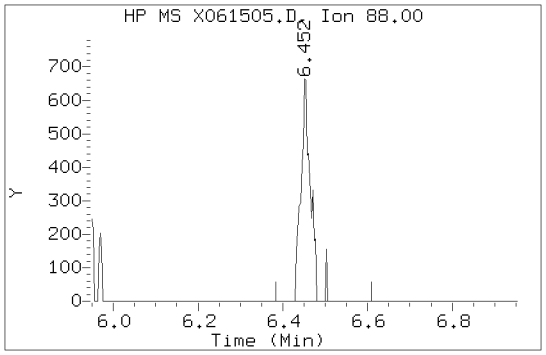

BEFORE

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286
HEIGHT
387
12-Jul-2024
11:38
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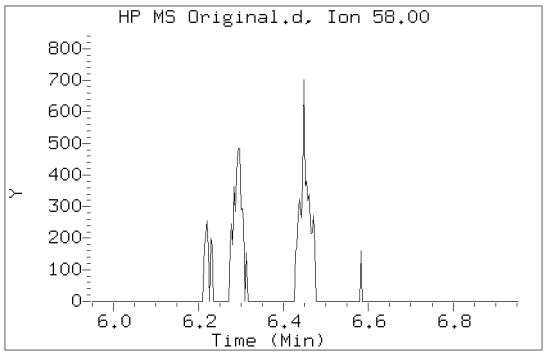

AFTER

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AREA
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HEIGHT
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11:38
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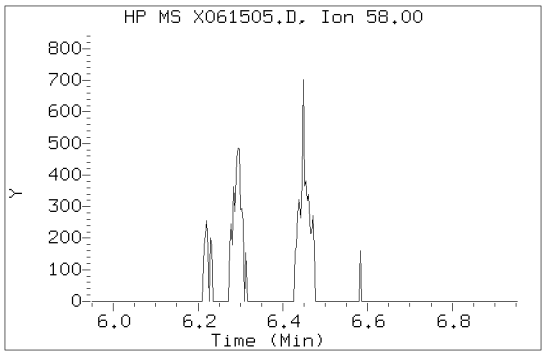

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Inj Date : 15-JUN-2024 15:09
InstruID : voa7.i
LabSampID : VSTD005

Isopropyl alcohol (67-63-0)

BEFORE
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12-Jul-2024
11:38
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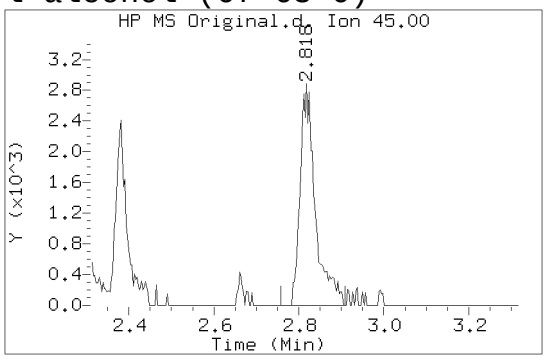
zaid



Reason Code:

AFTER
MASS
45
AREA
7128
HEIGHT
2886
12-Jul-2024
11:38
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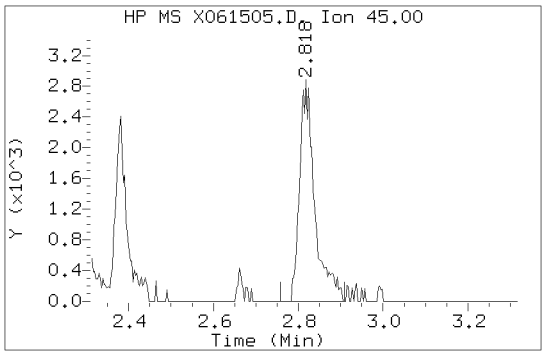

BEFORE
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HEIGHT
0
12-Jul-2024
11:38
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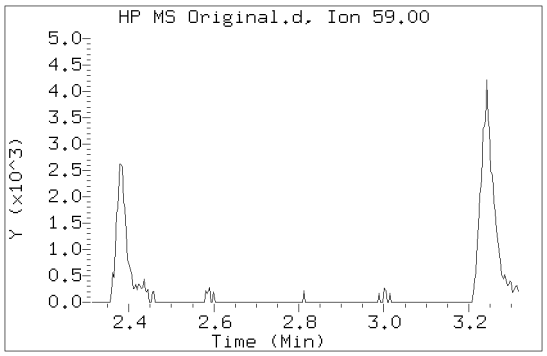

AFTER
MASS
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AREA
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HEIGHT
0
12-Jul-2024
11:38
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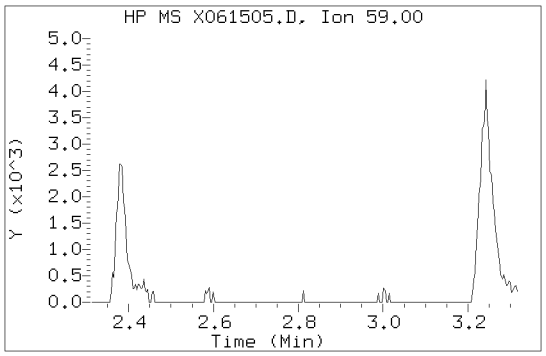
zaid



Isobutylene (115-11-7)

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AREA
901
HEIGHT
724
12-Jul-2024
11:38
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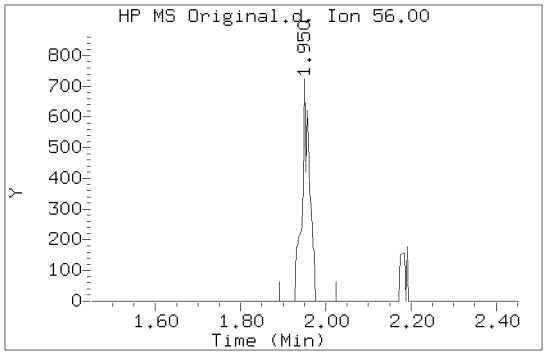
zaid



Reason Code:

AFTER
MASS
56
AREA
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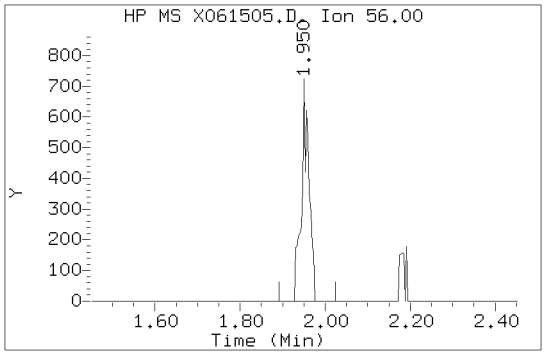
HEIGHT
724
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
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AREA
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12-Jul-2024
11:38
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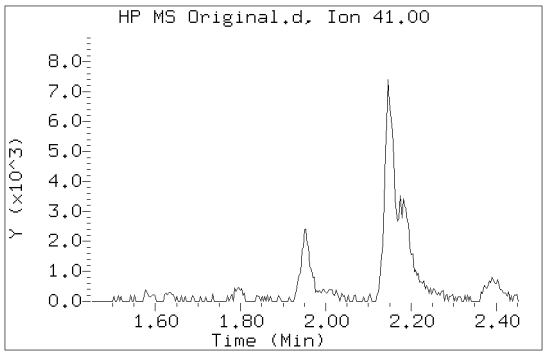
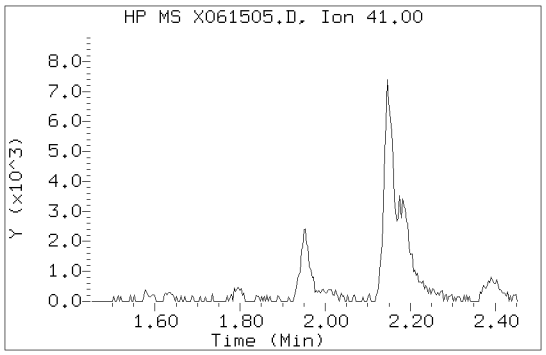


AFTER
MASS
41
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



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Inj Date : 15-JUN-2024 15:09
InstruID : voa7.i
LabSampID : VSTD005

Isobutylene (115-11-7)

Reason Code:

BEFORE

MASS
84
AREA
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HEIGHT
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12-Jul-2024
11:38
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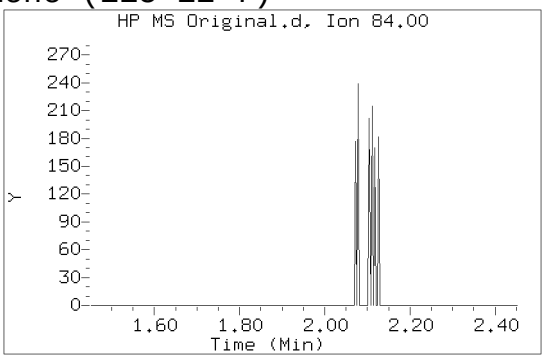

AFTER

MASS
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HEIGHT
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12-Jul-2024
11:38
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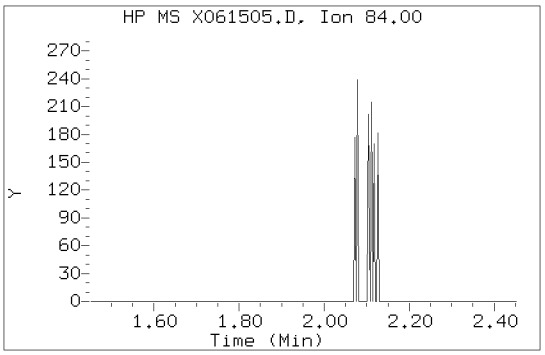
zaid



n-Amyl acetate (628-63-7)

Reason Code:

BEFORE

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10789
12-Jul-2024
11:38
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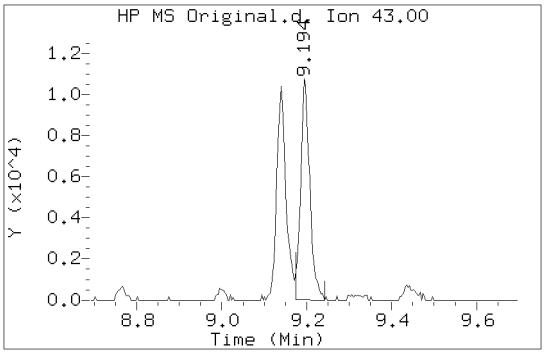

AFTER

MASS
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16091
HEIGHT
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12-Jul-2024
11:38
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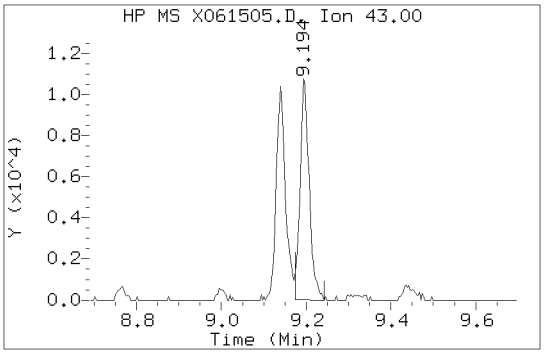

BEFORE

MASS
70
AREA
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HEIGHT
0
12-Jul-2024
11:38
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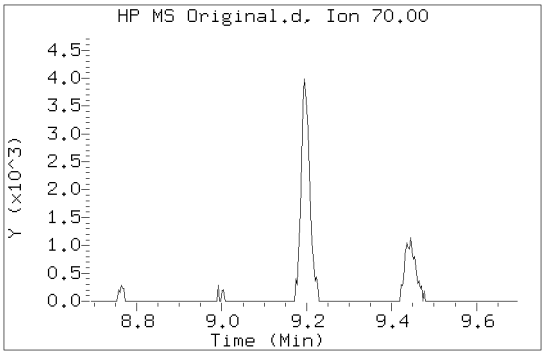

AFTER

MASS
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HEIGHT
0
12-Jul-2024
11:38
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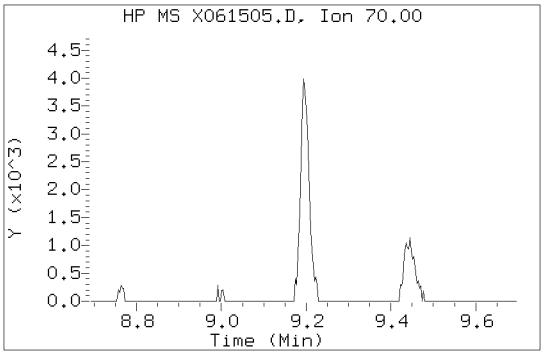
zaid



BEFORE

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11:38
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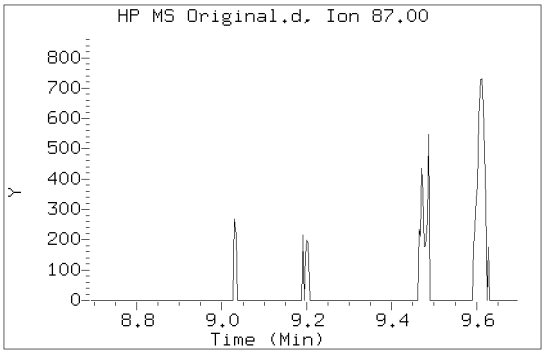

AFTER

MASS
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HEIGHT
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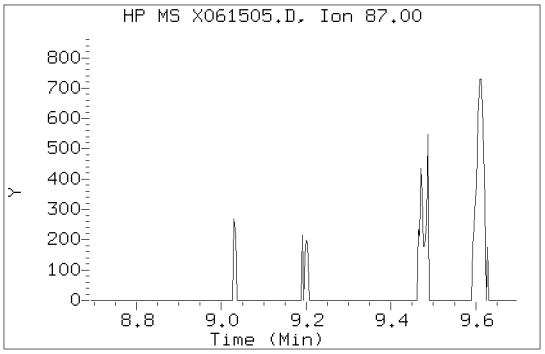

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Inj Date : 15-JUN-2024 15:09
InstruID : voa7.i
LabSampID : VSTD005

Acetaldehyde (75-07-0)

Reason Code:

BEFORE

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12-Jul-2024
11:38
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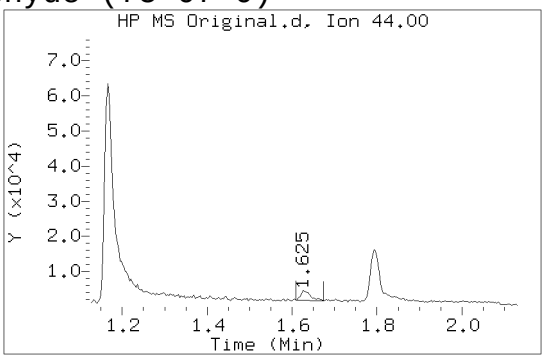

AFTER

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11:38
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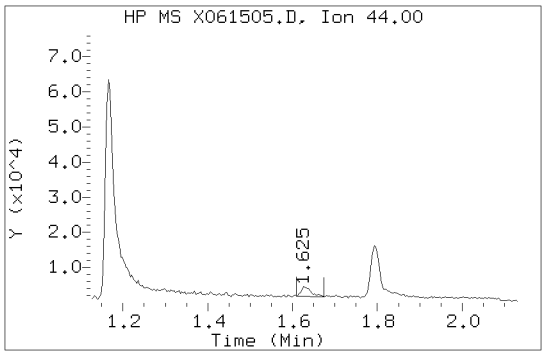

BEFORE

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12-Jul-2024
11:38
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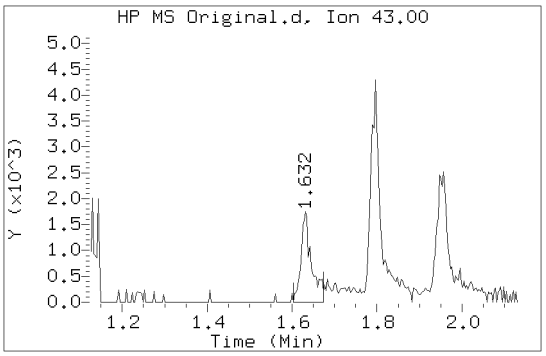

AFTER

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11:38
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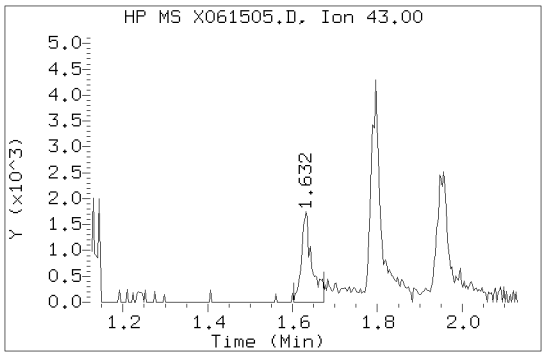

BEFORE

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HEIGHT
809
12-Jul-2024
11:38
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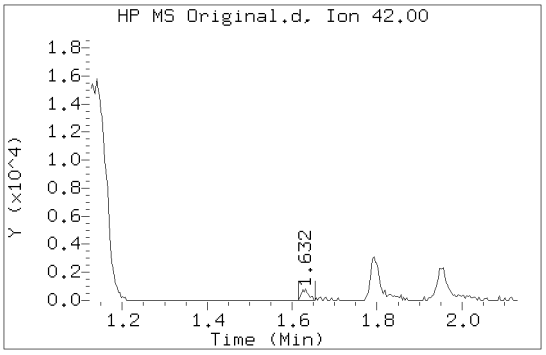

AFTER

MASS
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HEIGHT
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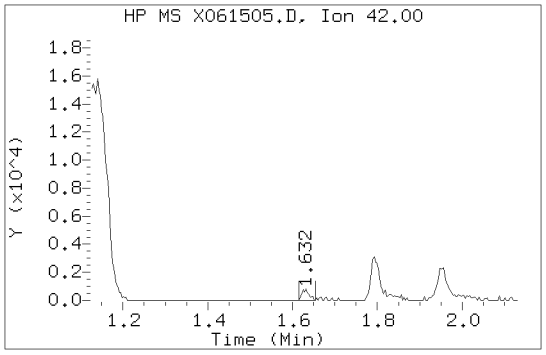
12-Jul-2024
11:38
s
zaid



n-Butyl acetate (123-86-4)

Reason Code:

BEFORE

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HEIGHT
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12-Jul-2024
11:38
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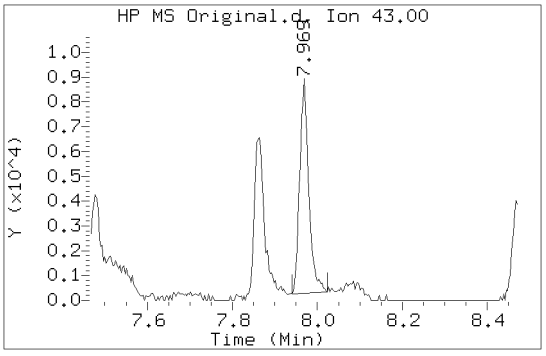

AFTER

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12-Jul-2024
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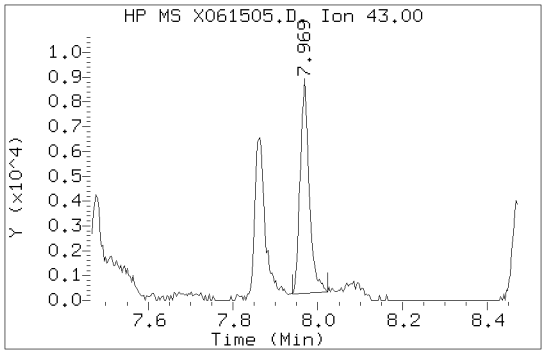

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Inj Date : 15-JUN-2024 15:09
InstruID : voa7.i
LabSampID : VSTD005

n-Butyl acetate (123-86-4)

Reason Code:

BEFORE

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HEIGHT
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12-Jul-2024
11:38
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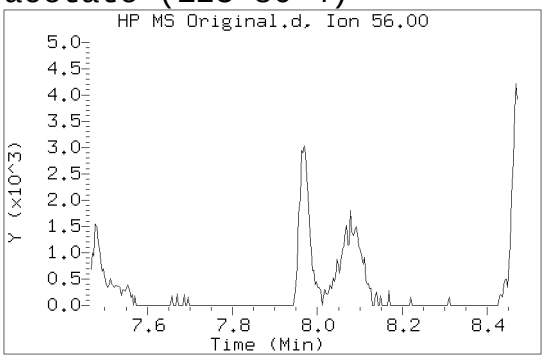
zaid



AFTER

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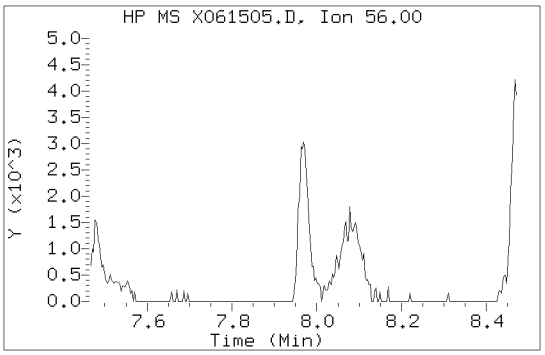

BEFORE

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AREA
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HEIGHT
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12-Jul-2024
11:38
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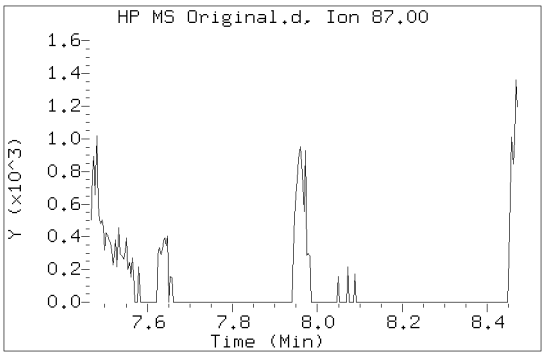

AFTER

MASS
87
AREA
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HEIGHT
0
12-Jul-2024
11:38
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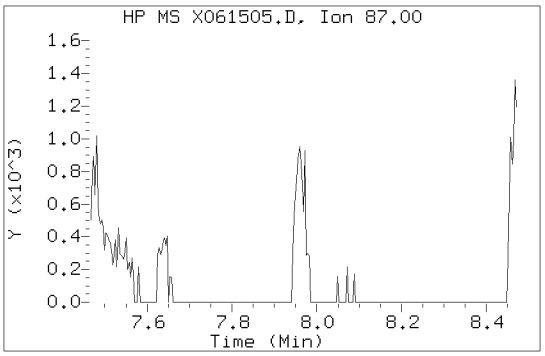

2-Etyhlhexyl Acrylate (103-11-7)

Reason Code:

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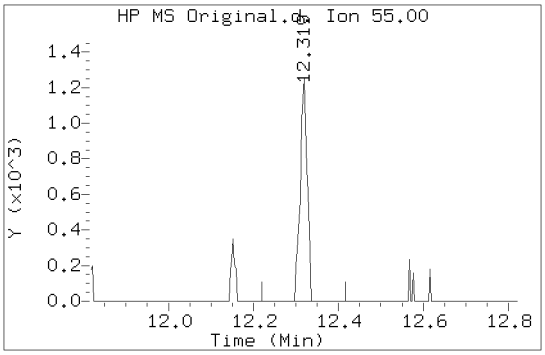

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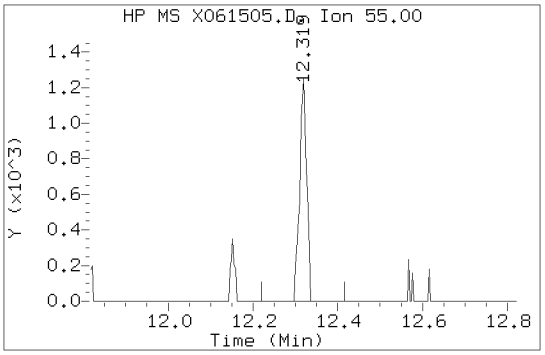

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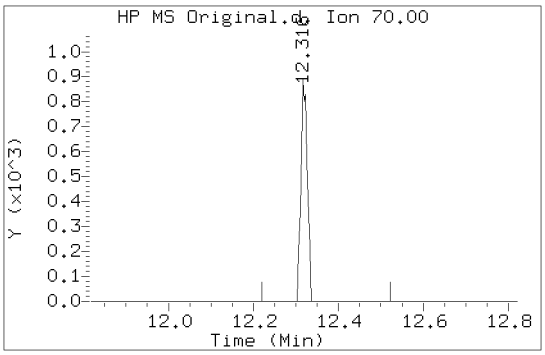

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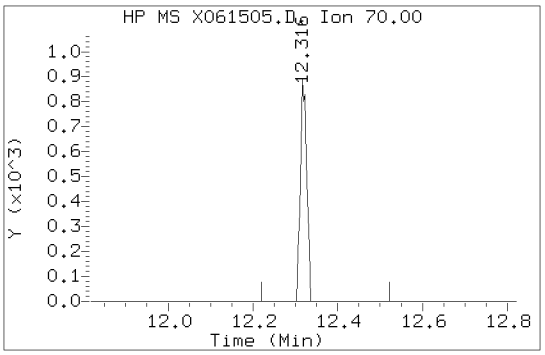

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Tetrahydrothiophene (110-01-0)

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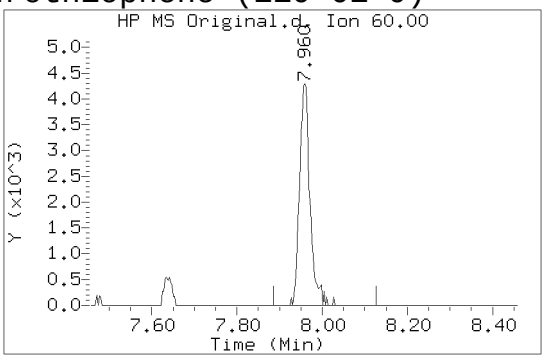

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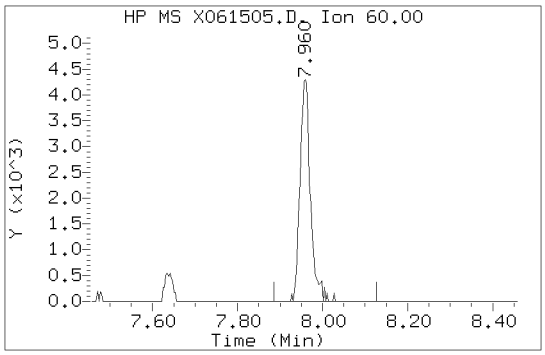

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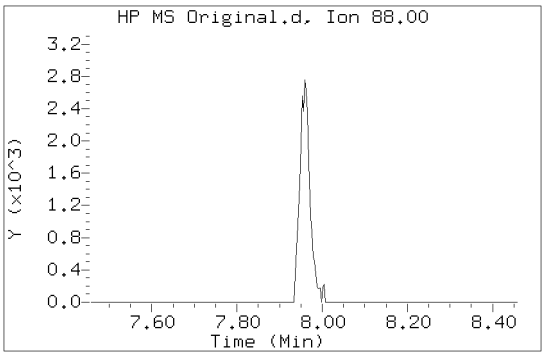

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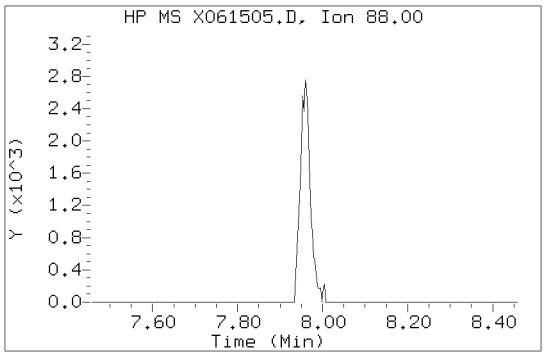

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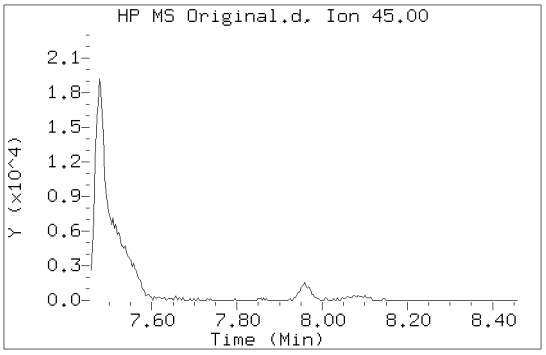

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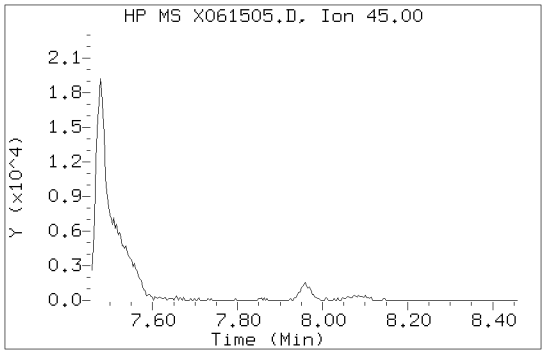

sec-Butyl Ether (6863-58-7)

Reason Code:

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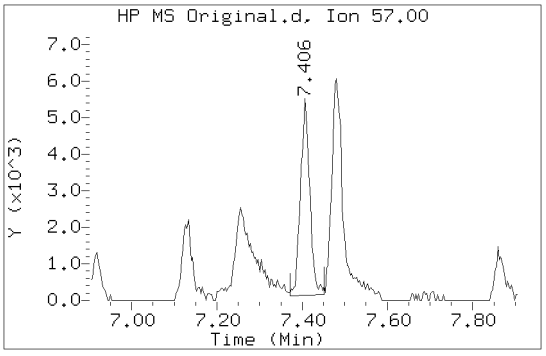

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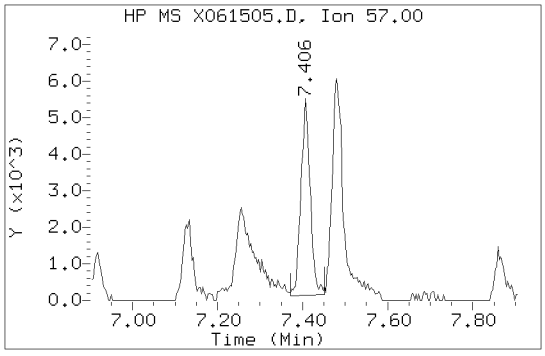

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InstruID : voa7.i
LabSampID : VSTD005

sec-Butyl Ether (6863-58-7)

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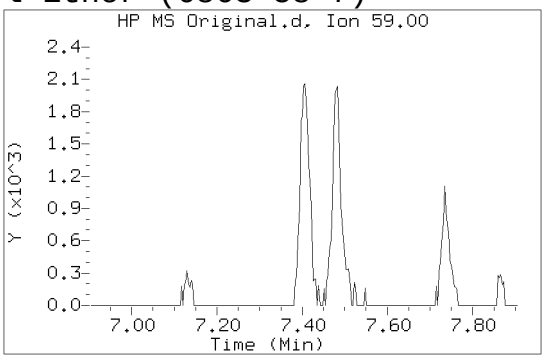

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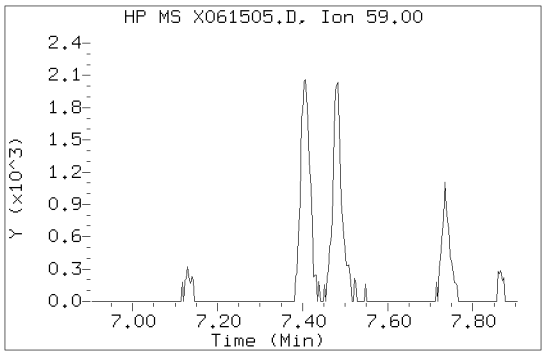

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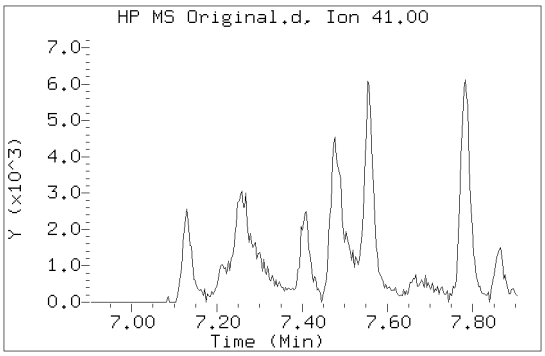

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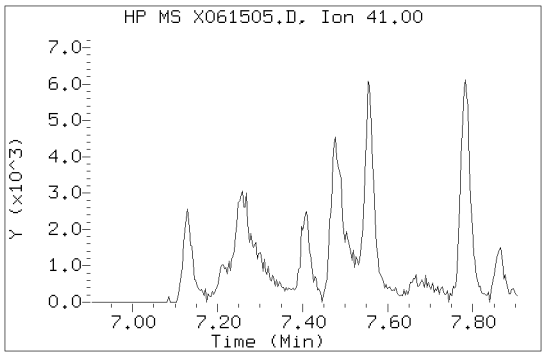

Isoprene (78-79-5)

Reason Code:

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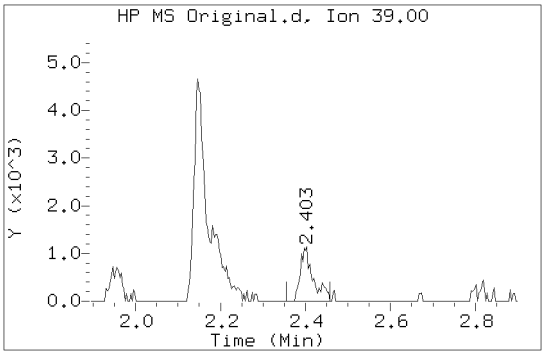

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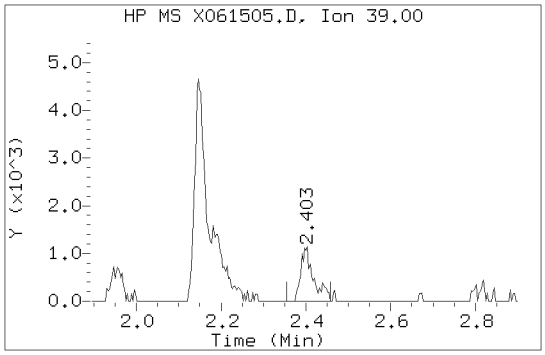

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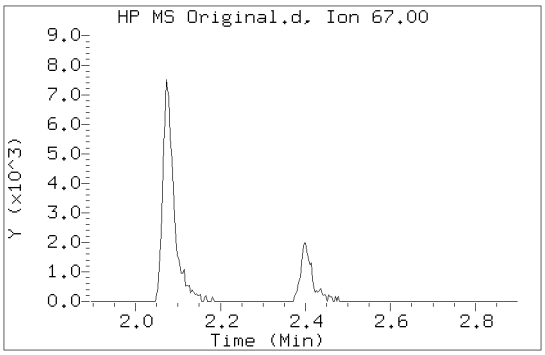

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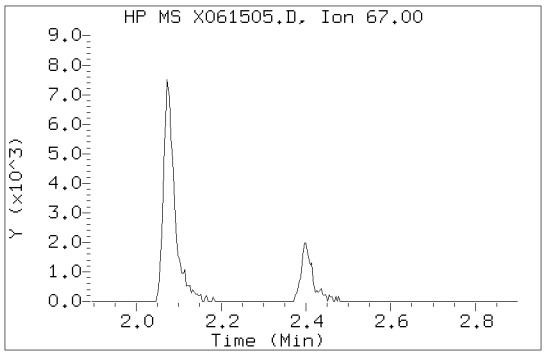

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Isoprene (78-79-5)

Reason Code:

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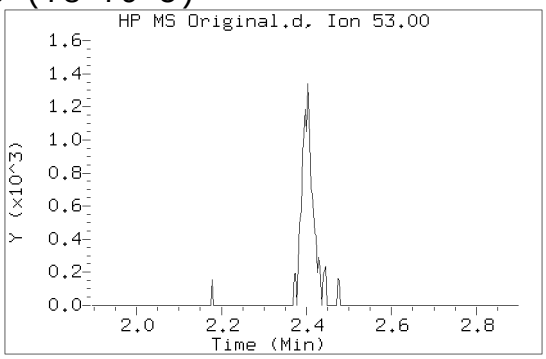

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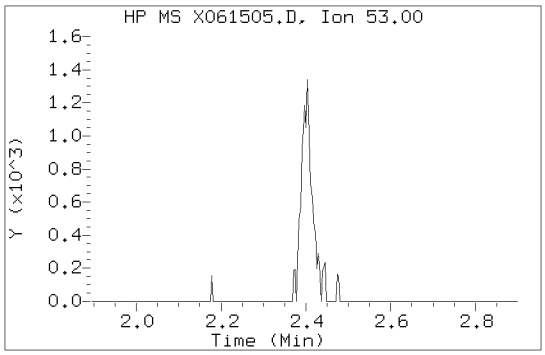

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Report Date: 12-Jul-2024 11:38

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061506.D
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Inj Date : 15-JUN-2024 15:32
Operator : AP Inst ID: voa7.i
Smp Info : VSTD010;VSTD010;1;5
Misc Info : HS220328V7;WATER;0;1;
Comment   :
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Meth Date : 12-Jul-2024 11:38 voa7.i Quant Type: ISTD
Cal Date : 15-JUN-2024 15:09 Cal File: X061505.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

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)	128021	50.0000	
2	Dichlorodifluoromethane	85	1.297	1.297	(0.253)	14638	10.0000	10.50
159	Dichlorofluoromethane	67	2.075	2.075	(0.404)	26460	10.0000	9.92
3	Chloromethane	50	1.451	1.451	(0.283)	22083	10.0000	10.42
4	Propionitrile	54	4.673	4.673	(0.910)	18049	100.000	96.50
5	Vinyl Chloride	62	1.535	1.535	(0.299)	19207	10.0000	10.52
6	Bromomethane	94	1.811	1.811	(0.353)	10679	10.0000	9.87
7	Chloroethane	64	1.901	1.901	(0.370)	11324	10.0000	9.98
8	Trichlorofluoromethane	101	2.114	2.114	(0.412)	24641	10.0000	10.25
9	Acrolein	56	2.522	2.522	(0.491)	742	20.0000	20.57
10	Acetone	43	2.670	2.670	(0.520)	10572	20.0000	19.16
11	1,1-Dichloroethene	96	2.589	2.589	(0.505)	13278	10.0000	10.20
12	Isobutyl Alcohol	43	5.570	5.570	(1.085)	45161	200.000	197.51
13	Acetonitrile	39	2.962	2.962	(0.577)	20967	100.000	100.74
14	Allyl Chloride	41	2.959	2.959	(0.577)	42736	10.0000	9.62
15	Iodomethane	142	2.741	2.741	(0.534)	27400	20.0000	19.58
16	Acrylonitrile	53	3.384	3.384	(0.659)	8583	20.0000	18.32
17	Methylene Chloride	84	3.094	3.094	(0.603)	16881	10.0000	9.75
18	Methyl tert-butyl ether	73	3.384	3.384	(0.659)	35843	10.0000	10.08
19	Carbon Disulfide	76	2.795	2.795	(0.545)	83855	20.0000	20.28

20 trans-1,2-Dichloroethene	96	3.377	3.377 (0.658)	14138	10.0000	10.11
21 Vinyl Acetate	43	4.660	4.660 (0.908)	15481	20.0000	18.73

	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)	29729	10.0000	9.87
23	Chloroprene	53	3.962	3.962	(0.772)	24627	10.0000	10.27
24	2-Butanone	43	4.596	4.596	(0.895)	13788	20.0000	19.41
25	Methacrylonitrile	41	2.152	2.152	(0.419)	19994	10.0000	9.37
26	2,2-Dichloropropane	77	4.535	4.535	(0.883)	23539	10.0000	9.21
27	cis-1,2-Dichloroethene	96	4.541	4.541	(0.885)	15946	10.0000	10.01
28	Chloroform	83	4.908	4.908	(0.956)	28858	10.0000	9.95
29	Bromochloromethane	128	4.811	4.811	(0.937)	7632	10.0000	9.92
$ 30	Dibromofluoromethane	113	5.075	5.075	(0.989)	13555	10.0000	9.01
31	1,1,1-Trichloroethane	97	5.075	5.075	(0.989)	24009	10.0000	9.98
32	1,1-Dichloropropene	75	5.242	5.242	(0.896)	20893	10.0000	10.12
33	1,2-Dichloroethane	62	5.493	5.493	(0.938)	23794	10.0000	9.99
34	Carbon Tetrachloride	117	5.232	5.232	(0.894)	19473	10.0000	9.99
$ 35	1,2-Dichloroethane-d4	65	5.419	5.419	(1.056)	18078	10.0000	9.15
* 36	1,4-Difluorobenzene	114	5.853	5.853	(1.000)	212384	50.0000	
37	Benzene	78	5.457	5.457	(0.932)	60291	10.0000	10.26
38	Trichloroethene	130	6.084	6.084	(1.040)	14480	10.0000	9.78
39	Bromodichloromethane	83	6.573	6.573	(1.123)	21673	10.0000	9.16
40	Methyl Methacrylate	41	6.432	6.432	(1.253)	15048	10.0000	9.60
41	2-Chloroethylvinyl ether	63	6.853	6.853	(1.171)	11392	20.0000	19.19
42	1,2-Dichloropropane	63	6.310	6.310	(1.078)	17398	10.0000	10.34
43	2-Nitropropane	43	6.795	6.795	(1.324)	4212	10.0000	9.45
44	Dibromomethane	93	6.422	6.422	(1.097)	9510	10.0000	10.18
45	4-Methyl-2-Pentanone	43	7.126	7.126	(0.842)	32018	20.0000	19.71
46	cis-1,3-Dichloropropene	75	6.975	6.975	(1.192)	22745	10.0000	10.11
* 47	Chlorobenzene-d5	117	8.467	8.467	(1.000)	202110	50.0000	
$ 48	Toluene-d8	98	7.203	7.203	(0.851)	50267	10.0000	9.17
49	Ethyl Methacrylate	69	8.078	8.078	(1.380)	17396	10.0000	9.64(M)
50	Toluene	91	7.264	7.264	(0.858)	62276	10.0000	9.94
51	trans-1,3-Dichloropropene	75	6.975	6.975	(1.192)	22745	10.0000	10.11
52	2-Hexanone	43	7.863	7.863	(0.929)	21713	20.0000	18.87
53	1,1,2-Trichloroethane	83	7.637	7.637	(0.902)	11359	10.0000	9.44
54	1,3-Dichloropropane	76	7.782	7.782	(0.919)	25023	10.0000	9.77
55	Dibromochloromethane	129	7.975	7.975	(0.942)	15089	10.0000	9.11
56	Tetrachloroethene	164	7.740	7.740	(0.914)	11042	10.0000	9.57
57	1,2-Dibromoethane	107	8.078	8.078	(0.954)	12804	10.0000	10.03
58	1-Chlorohexane	55	8.467	8.467	(1.447)	17306	10.0000	10.00
59	Chlorobenzene	112	8.493	8.493	(1.003)	39917	10.0000	9.68
60	1,1,1,2-Tetrachloroethane	131	8.563	8.563	(1.011)	13676	10.0000	10.12
61	Ethylbenzene	106	8.583	8.583	(1.014)	20636	10.0000	9.79
62	m,p-Xylenes	106	8.686	8.686	(1.026)	52278	20.0000	19.81
63	o-Xylene	106	9.023	9.023	(1.066)	24914	10.0000	9.61
64	Styrene	104	9.039	9.039	(1.068)	44716	10.0000	9.87
66	Bromoform	173	9.207	9.207	(1.087)	9670	10.0000	9.26
67	Isopropylbenzene	105	9.338	9.338	(1.103)	63249	10.0000	9.73
68	1,1,2,2-Tetrachloroethane	83	9.612	9.612	(0.919)	18424	10.0000	10.13
$ 69	4-Bromofluorobenzene	95	9.473	9.473	(1.119)	20656	10.0000	8.99
* 70	1,4-Dichlorobenzene-d4	152	10.457	10.457	(1.000)	102647	50.0000	
71	1,2,3-Trichloropropane	75	9.650	9.650	(0.923)	20796	10.0000	10.20
72	trans-1,4-Dichloro-2-butene	53	9.660	9.660	(1.141)	4519	10.0000	10.39
73	n-Propylbenzene	91	9.689	9.689	(0.927)	76526	10.0000	10.00
74	Bromobenzene	156	9.605	9.605	(0.919)	17462	10.0000	10.31

75	1,3,5-Trimethylbenzene	105	9.840	9.840 (0.941)	55087	10.0000	10.16
76	2-Chlorotoluene	91	9.766	9.766 (0.934)	48163	10.0000	9.98

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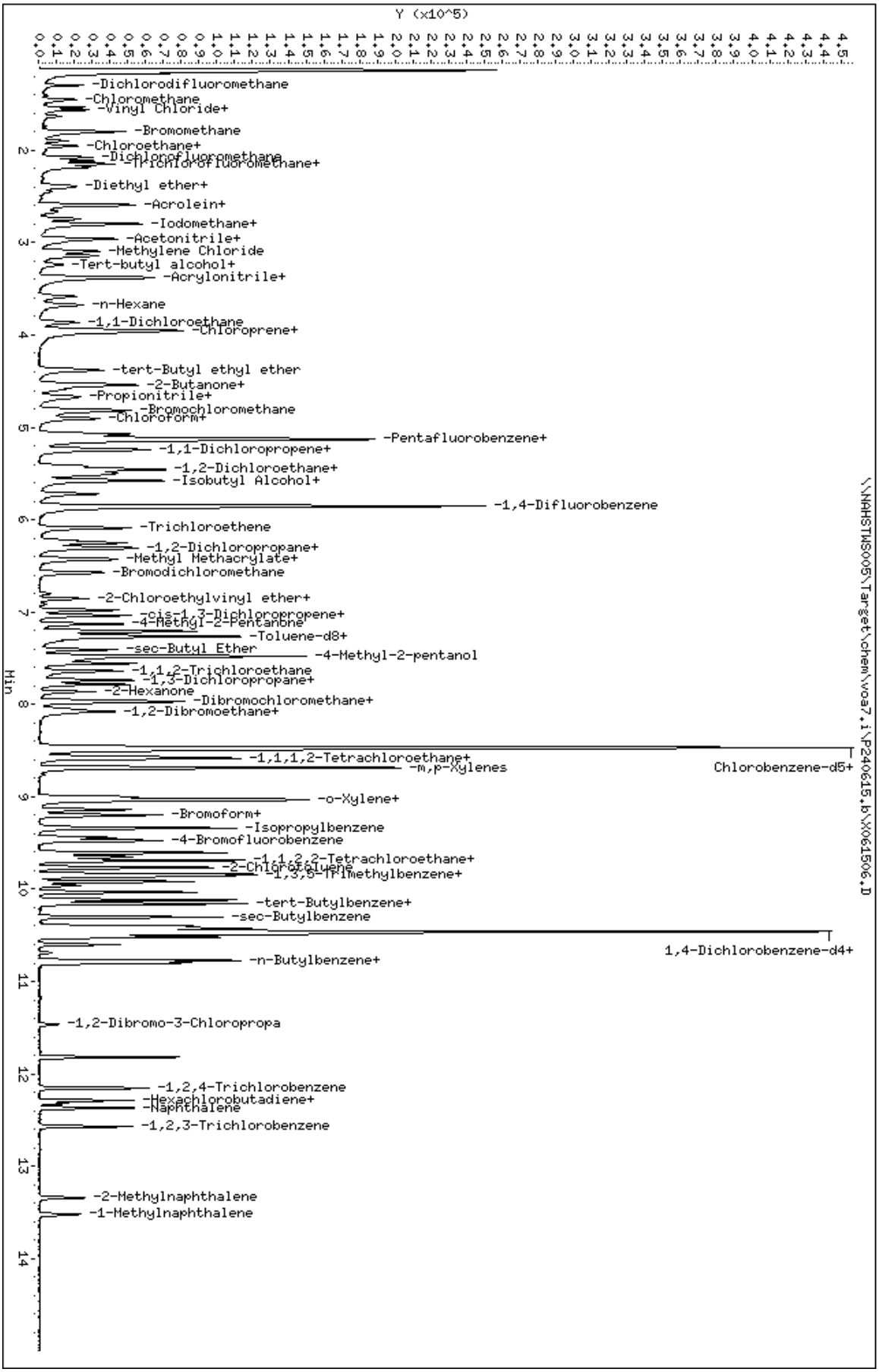
Report Date: 12-Jul-2024 11:38

	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)	56243	10.0000	10.00
78	tert-Butylbenzene	119	10.113	10.113	(0.967)	44107	10.0000	9.57
79	1,2,4-Trimethylbenzene	105	10.158	10.158	(0.971)	54690	10.0000	9.93
81	sec-Butylbenzene	105	10.303	10.303	(0.985)	61000	10.0000	9.90
82	p-Isopropyltoluene	119	10.428	10.428	(0.997)	55271	10.0000	9.94
83	1,3-Dichlorobenzene	146	10.403	10.403	(0.995)	30823	10.0000	9.93
84	1,4-Dichlorobenzene	146	10.480	10.480	(1.002)	31726	10.0000	9.78
87	n-Butylbenzene	91	10.772	10.772	(1.030)	50748	10.0000	9.59
88	1,2-Dichlorobenzene	146	10.798	10.798	(1.033)	29096	10.0000	9.70
89	1,2-Dibromo-3-Chloropropane	75	11.460	11.460	(1.096)	2718	10.0000	8.96
90	1,2,4-Trichlorobenzene	180	12.155	12.155	(1.162)	16917	10.0000	9.36
91	Hexachlorobutadiene	225	12.287	12.287	(1.175)	8542	10.0000	9.76
92	Naphthalene	128	12.370	12.370	(1.183)	37035	10.0000	8.41
93	1,2,3-Trichlorobenzene	182	12.570	12.570	(1.202)	13510	10.0000	8.42
135	1,4-Dioxane	88	6.454	6.454	(1.257)	2043	200.000	185.47(AM)
146	Methyl acetate	43	2.998	2.998	(0.584)	12109	10.0000	11.00
138	Freon TF	101	2.593	2.593	(0.505)	12911	10.0000	10.13
139	Diethyl ether	59	2.384	2.384	(0.464)	7676	10.0000	8.22
140	1,3-Butadiene	54	1.564	1.564	(0.305)	7850	10.0000	10.07
141	Cyclohexane	56	5.113	5.113	(0.996)	23825	10.0000	9.95
147	Methylcyclohexane	83	6.248	6.248	(1.068)	18627	10.0000	10.47
132	n-Butanol	56	6.248	6.248	(1.217)	8125	200.000	199.31(T)
131	Methyl Acrylate	55	4.689	4.689	(0.914)	15184	10.0000	9.80
133	Ethyl Acrylate	55	6.226	6.226	(1.213)	35312	10.0000	9.80(M)
136	n-Hexane	57	3.676	3.676	(0.716)	14466	10.0000	9.44
142	Tetrahydrofuran	42	4.863	4.863	(0.947)	4755	20.0000	21.07
148	Tert-butyl alcohol	59	3.239	3.239	(0.631)	17506	200.000	185.29
149	Isopropyl alcohol	45	2.814	2.814	(0.548)	12916	200.000	175.28
151	4-Methyl-2-pentanol	45	7.477	7.477	(0.883)	105868	200.000	194.68
166	1,2,3-Trimethylbenzene	105	10.518	10.518	(1.006)	48601	10.0000	9.19
167	Ethanol	45	2.306	2.306	(0.449)	2526	200.000	207.73
172	tert-Butyl formate	59	3.239	3.239	(0.631)	17506	20.0000	20.16
173	3,3-Dimethyl-1-butanol	57	8.078	8.078	(0.954)	25111	200.000	199.08(M)
174	tert-Amyl methyl ether	73	5.576	5.576	(1.086)	39115	10.0000	9.86
175	tert-Butyl ethyl ether	59	4.384	4.384	(0.854)	40425	10.0000	9.26
157	2-Methylnaphthalene	142	13.341	13.341	(1.276)	12659	10.0000	7.89
156	Diisopropyl ether	45	3.949	3.949	(0.769)	46789	10.0000	9.20(T)
171	1-Methylnaphthalene	142	13.521	13.521	(1.293)	11383	10.0000	8.03
130	Ethyl Acetate	43	3.949	3.949	(0.769)	85403	10.0000	9.69(T)
176	tert-Amyl alcohol	59	5.512	5.512	(1.074)	15952	200.000	191.19(A)
160	Epichlorohydrin	57	6.911	6.911	(1.181)	3458	40.0000	38.62
161	Butyl acrylate	55	8.998	8.998	(1.063)	32123	10.0000	9.56
182	Isobutylene	56	1.953	1.953	(0.381)	1722	10.0000	9.06(AM)
183	Isopropyl Acetate	43	5.570	5.570	(0.952)	45161	10.0000	10.11(A)
184	n-Amyl acetate	43	9.194	9.194	(1.086)	30467	10.0000	9.63(A)
185	Acetaldehyde	44	1.631	1.631	(0.318)	10172	40.0000	46.03(AM)
186	n-Butyl acetate	43	7.969	7.969	(0.941)	24410	10.0000	9.49(AM)
187	2-Etyhlhexyl Acrylate	55	12.319	12.319	(1.178)	4941	10.0000	7.19(AM)
188	Tetrahydrothiophene	60	7.959	7.959	(0.940)	15450	10.0000	9.54(AM)
189	sec-Butyl Ether	57	7.406	7.406	(0.875)	15913	10.0000	9.91(AM)
190	Isoprene	39	2.403	2.403	(0.468)	4929	10.0000	12.80(AM)
191	2-Chloropropene	41	2.152	2.152	(0.419)	19994	10.0000	9.07(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.


Y (x10^5)
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride+
-Bromomethane
-Chloroethane+
-Dichlorofluoromethane
-Trichlorofluoromethane+
-Diethyl ether+
-Acrolein+
-Iodomethane+
-Acetonitrile+
-Methylene Chloride
-Tert-butyl alcohol+
-Acrylonitrile+
-n-Hexane
-1,1-Dichloroethane
-Chloroprene+
-tert-Butyl ethyl ether
-2-Butanone+
-Propionitrile+
-Bromochloromethane
-Chloroform+
-Pentafluorobenzene+
-1,1-Dichloropropene+
-1,2-Dichloroethane+
-Isobutyl Alcohol+
-1,4-Difluorobenzene
-Trichloroethene
-1,2-Dichloropropane+
-Methyl Methacrylate+
-Bromodichloromethane
-2-Chloroethylvinyl ether+
-cis-1,3-Dichloropropene+
-4-Methyl-2-Pentanone
-Toluene-d8+
-sec-Butyl Ether
-4-Methyl-2-pentanol
-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+
-Bromoform+
-Isopropylbenzene
-4-Bromofluorobenzene
-1,1,2,2-Tetrachloroethane+
-2-Chlorotoluene
-1,3,5-Trimethylbenzene+
-tert-Butylbenzene+
-sec-Butylbenzene
1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-1,2-Dibromo-3-Chloropropa
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene+
-Naphthalene
-1,2,3-Trichlorobenzene
-2-Methylnaphthalene
-1-Methylnaphthalene
Min
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Sample Info: VSTD010;VSTD010;1;5
Purge Volume: 5.0
Column phase: DB624
Instrument: voa7.i
Operator: AP
Column diameter: 0.18
Page 1

Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061506.D
Inj Date : 15-JUN-2024 15:32
InstruID : voa7.i
LabSampID : VSTD010

3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

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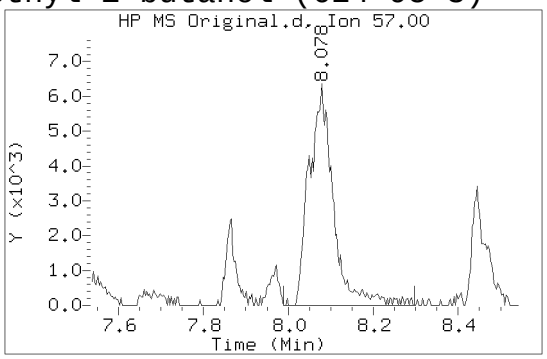

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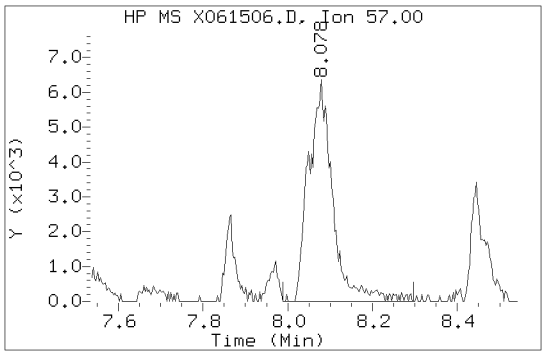

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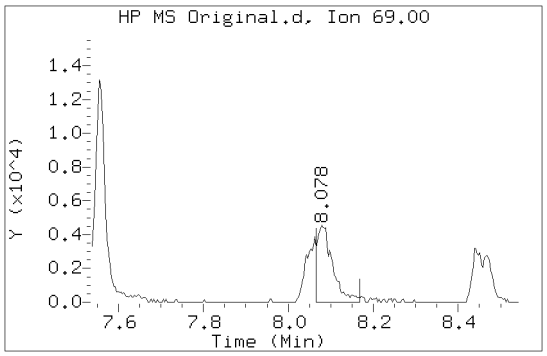

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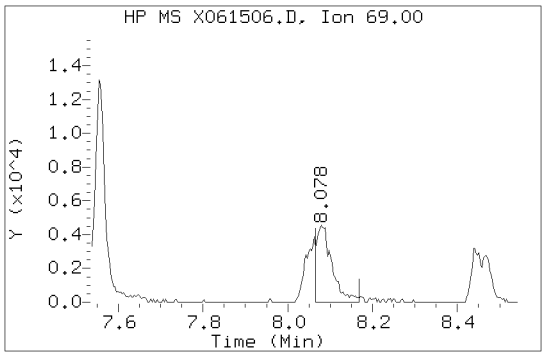

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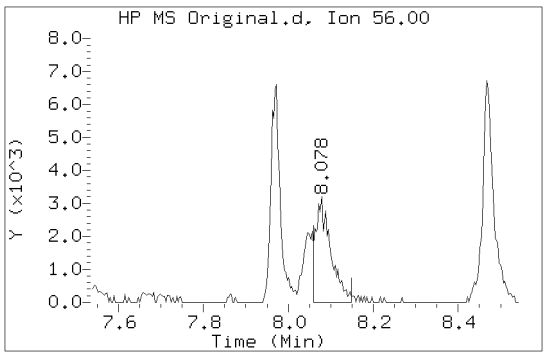

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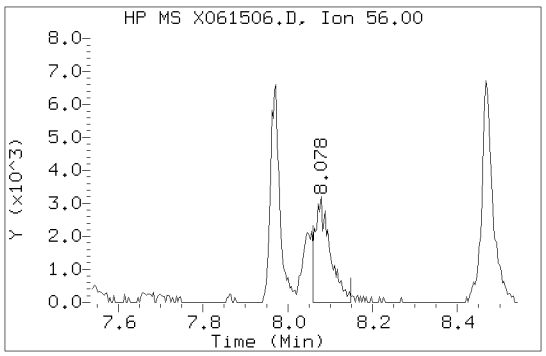

Ethyl Methacrylate (97-63-2)

Reason Code:

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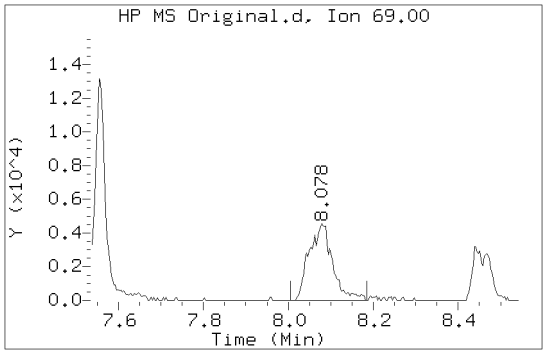

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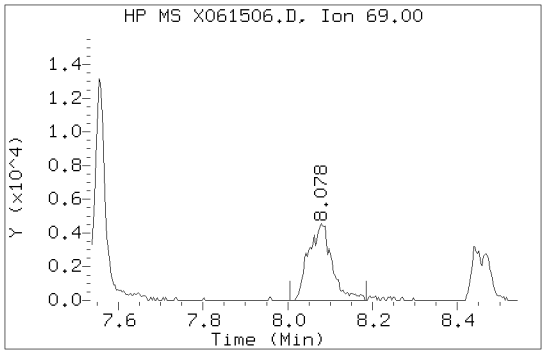

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InstruID : voa7.i
LabSampID : VSTD010

Ethyl Methacrylate (97-63-2)

Reason Code:

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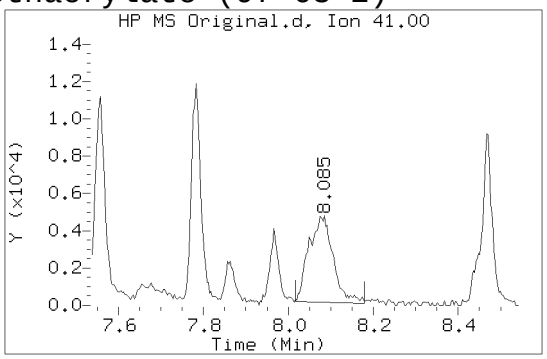

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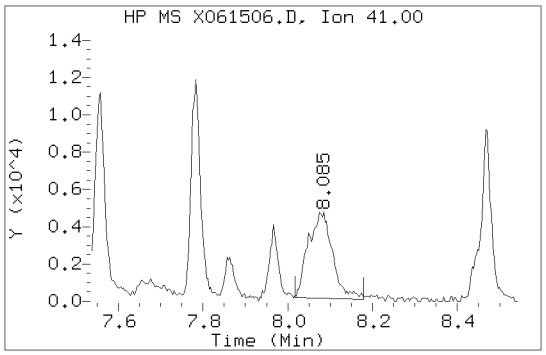

1,4-Dioxane ()

Reason Code:

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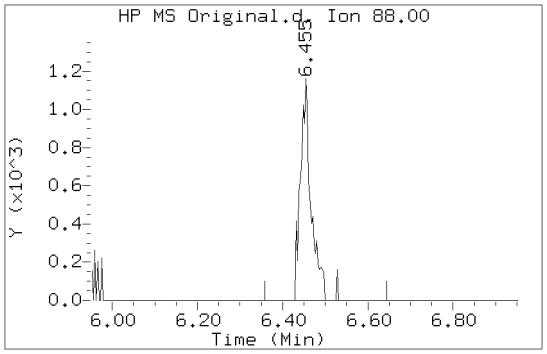

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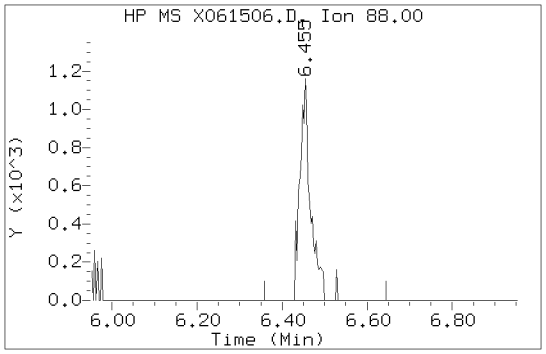

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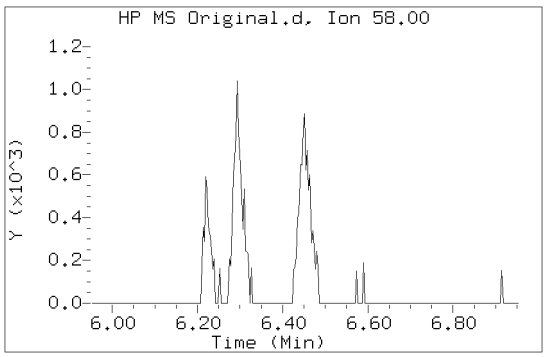

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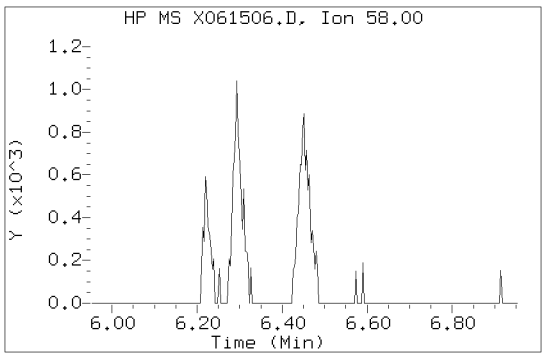

Ethyl Acrylate (140-88-5)

Reason Code:

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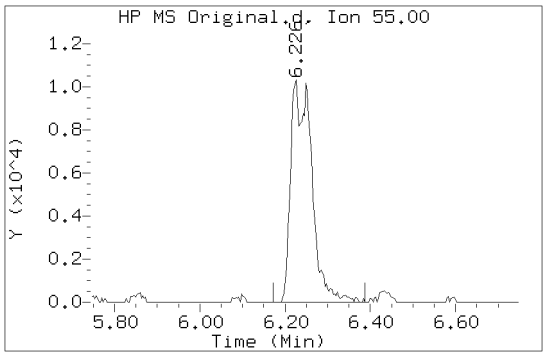

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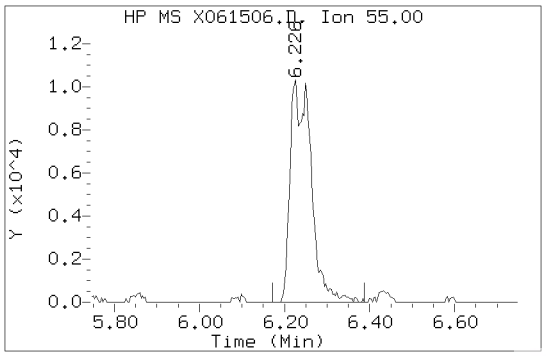

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Inj Date : 15-JUN-2024 15:32
InstruID : voa7.i
LabSampID : VSTD010

Ethyl Acrylate (140-88-5)

Reason Code:

BEFORE

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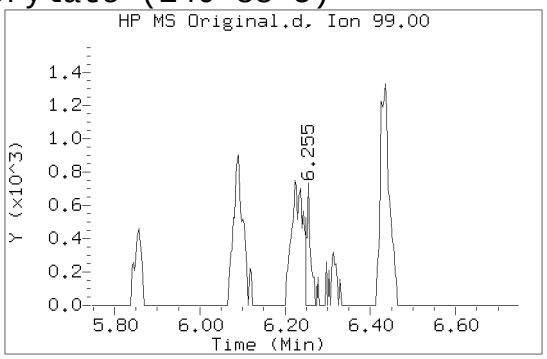

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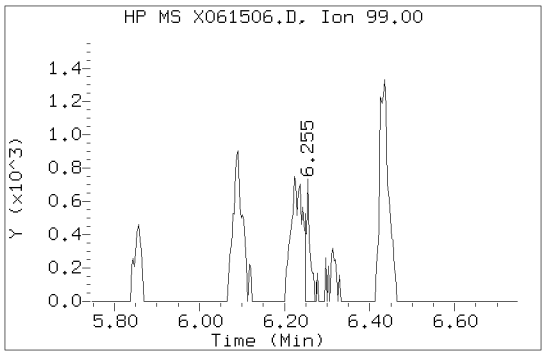

Isobutylene (115-11-7)

Reason Code:

BEFORE

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12-Jul-2024
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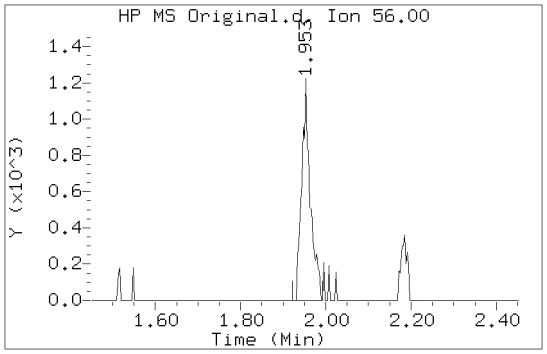

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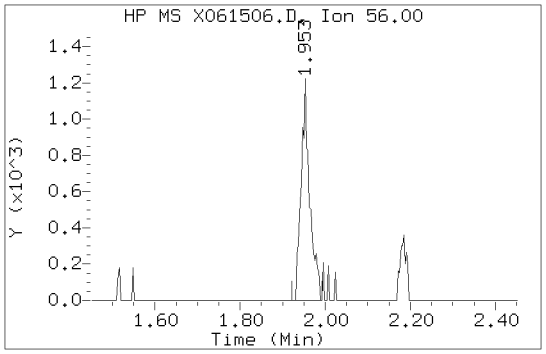

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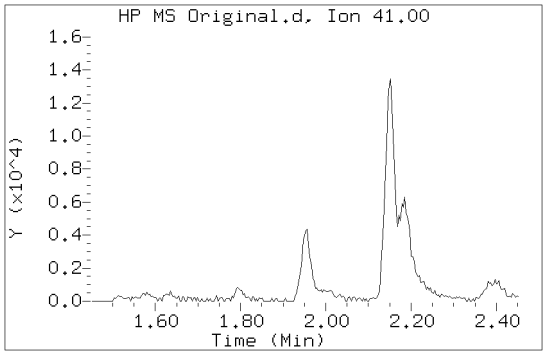

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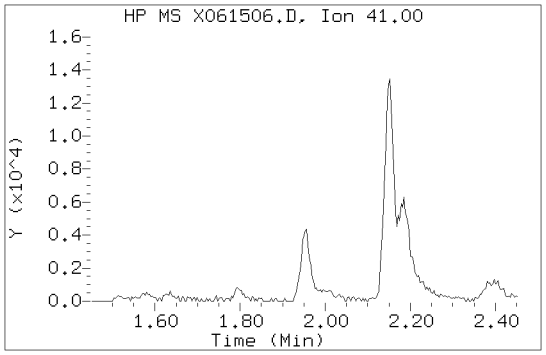

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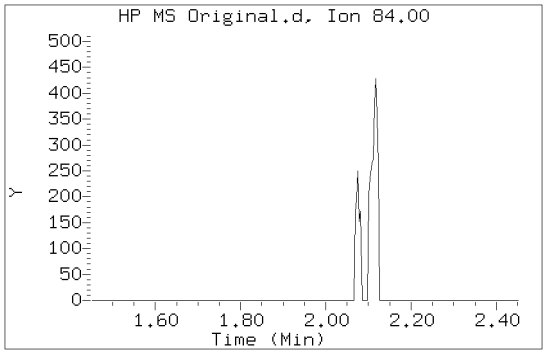

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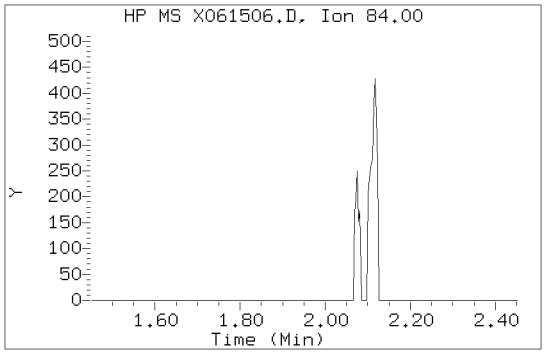

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Inj Date : 15-JUN-2024 15:32
InstruID : voa7.i
LabSampID : VSTD010

Acetaldehyde (75-07-0)

Reason Code:

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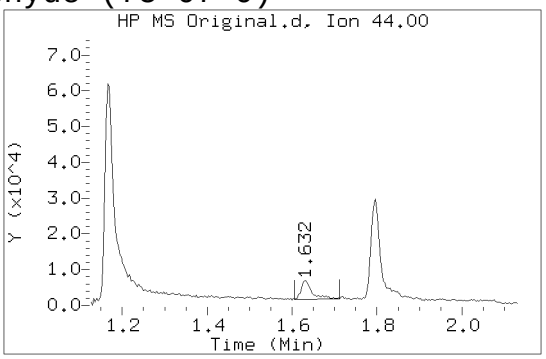

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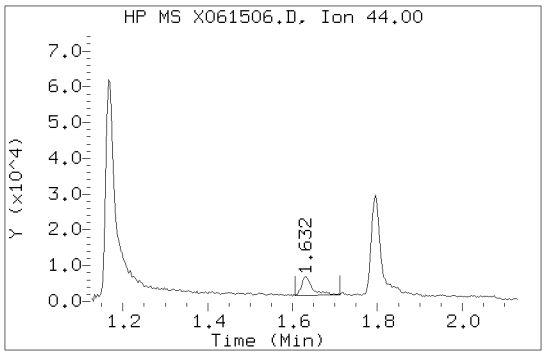

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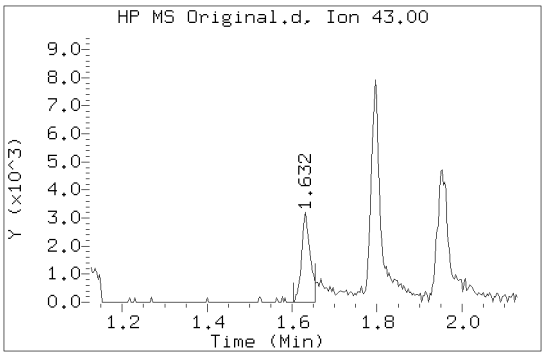

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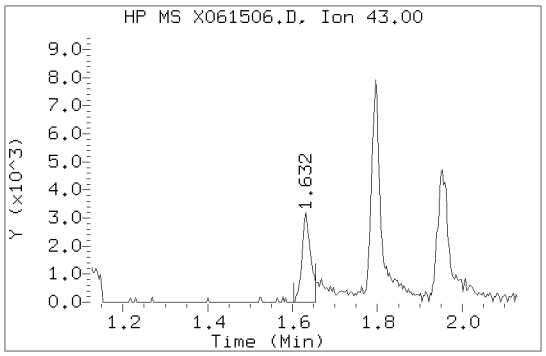

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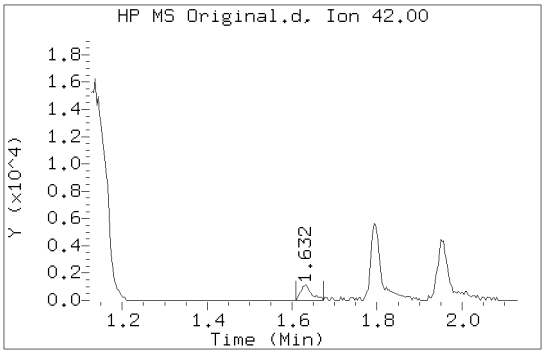

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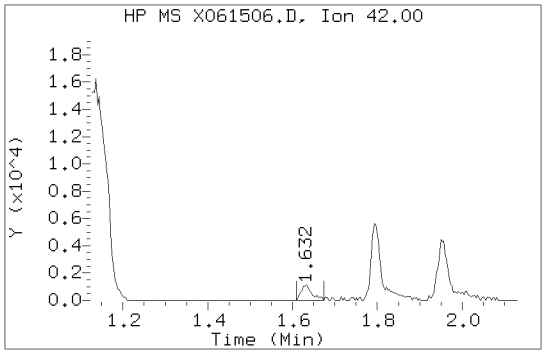

n-Butyl acetate (123-86-4)

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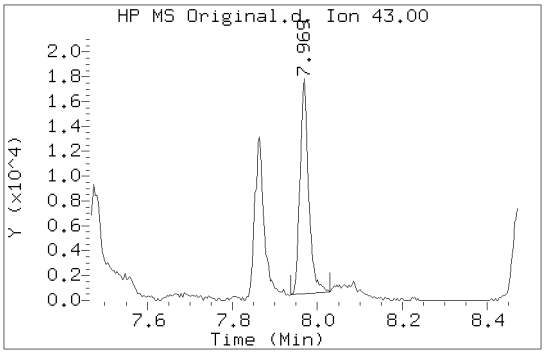

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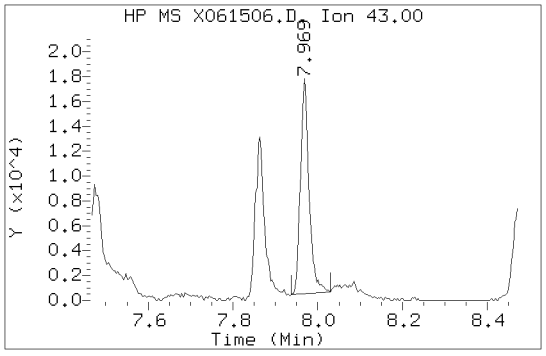

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Inj Date : 15-JUN-2024 15:32
InstruID : voa7.i
LabSampID : VSTD010

n-Butyl acetate (123-86-4)

Reason Code:

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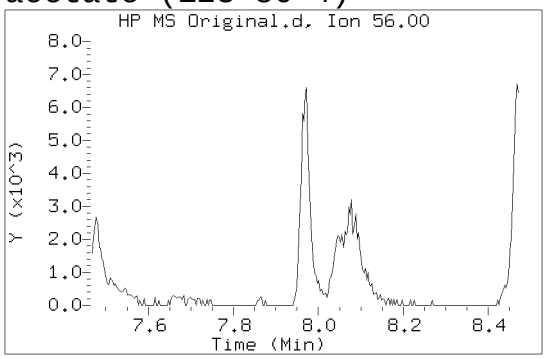

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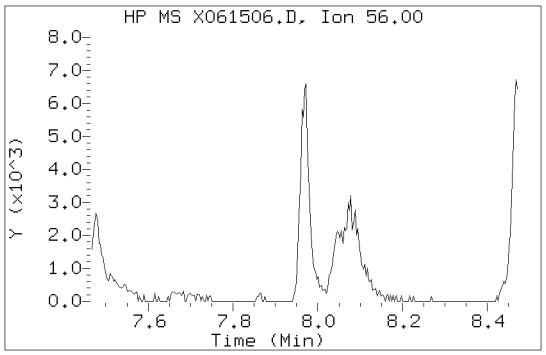

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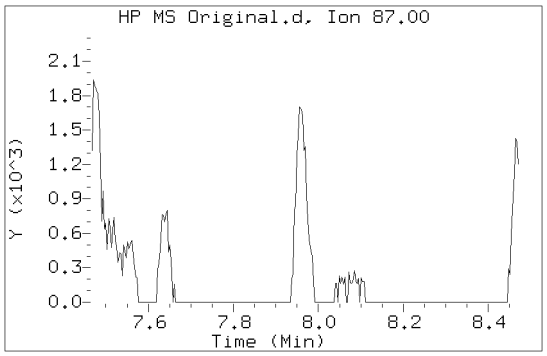

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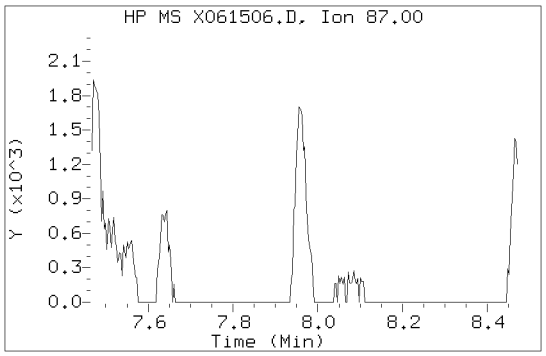

2-Etyhlhexyl Acrylate (103-11-7)

Reason Code:

BEFORE

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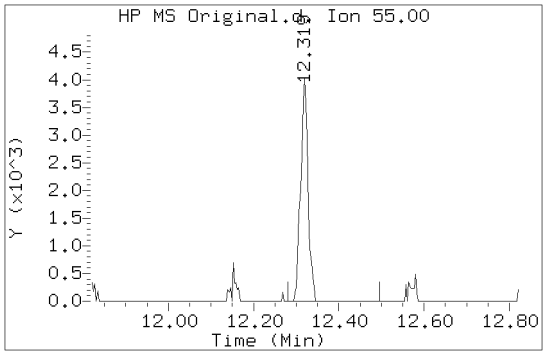

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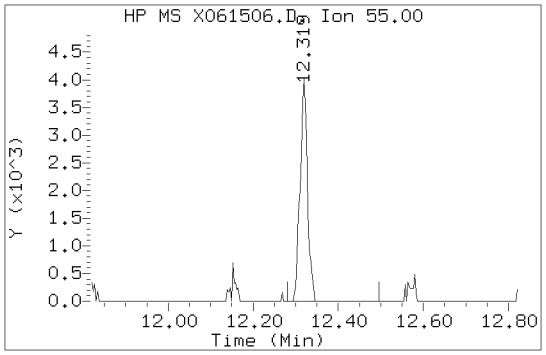

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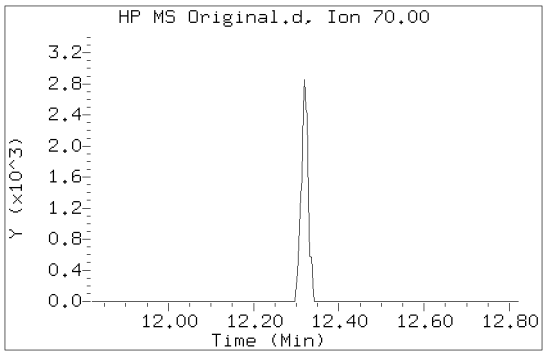

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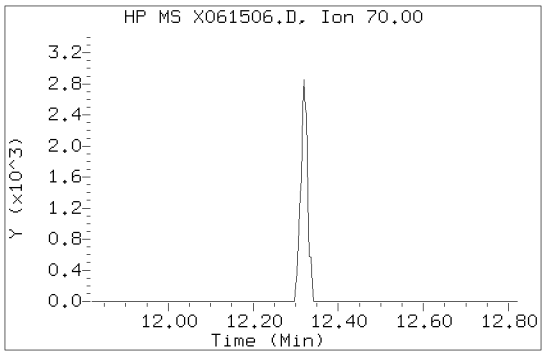

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InstruID : voa7.i
LabSampID : VSTD010

Tetrahydrothiophene (110-01-0)

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11:38
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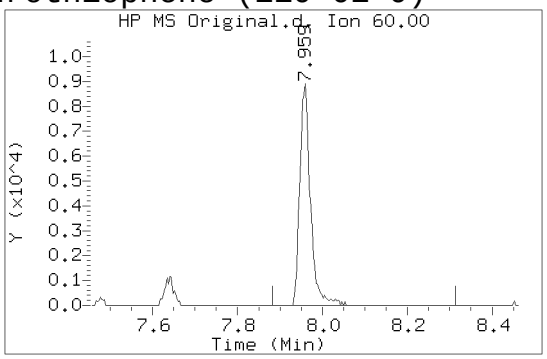

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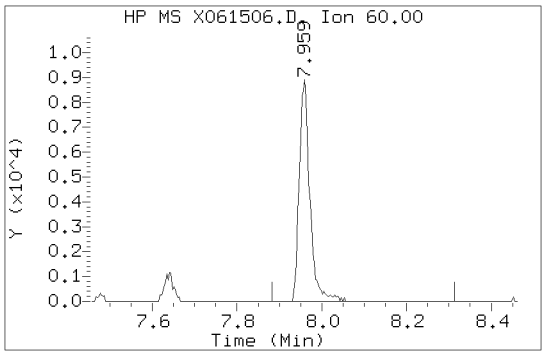

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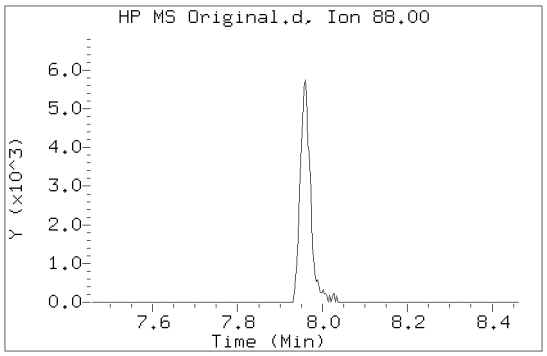

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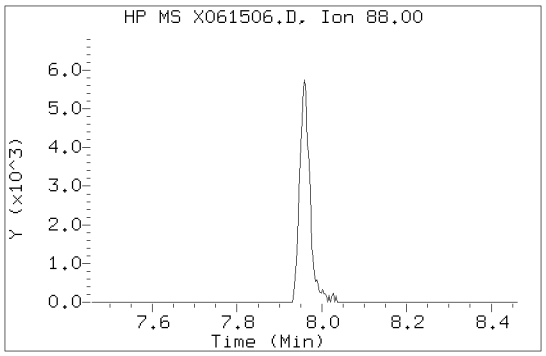

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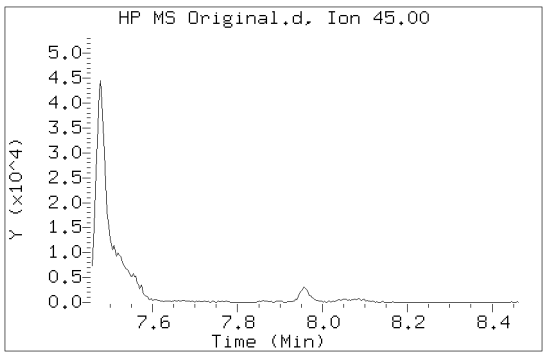

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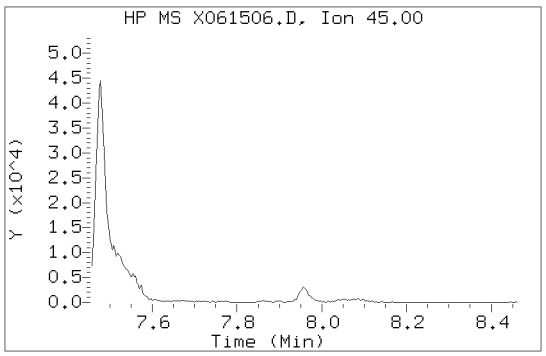

sec-Butyl Ether (6863-58-7)

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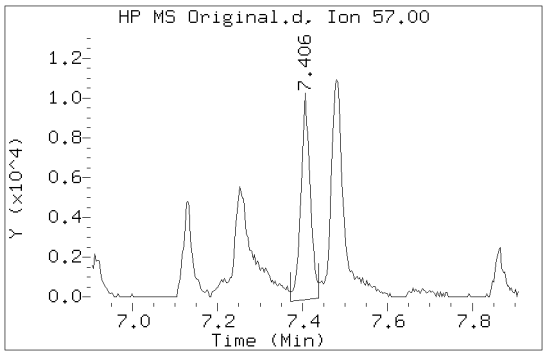

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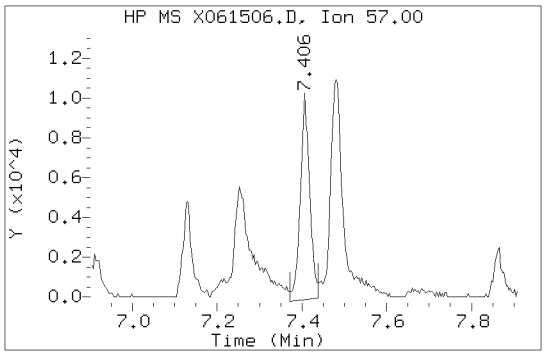

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InstruID : voa7.i
LabSampID : VSTD010

sec-Butyl Ether (6863-58-7)

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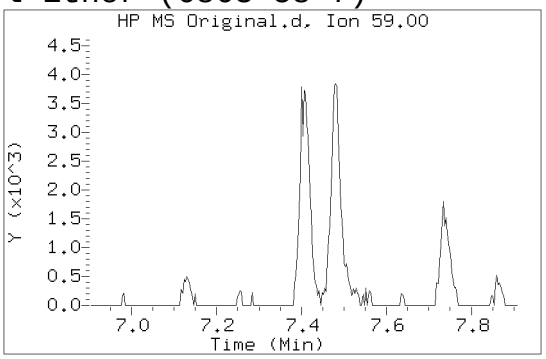

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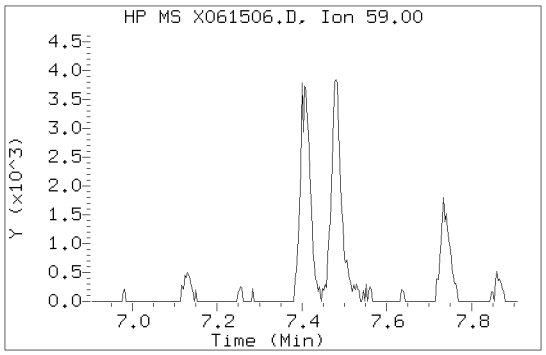

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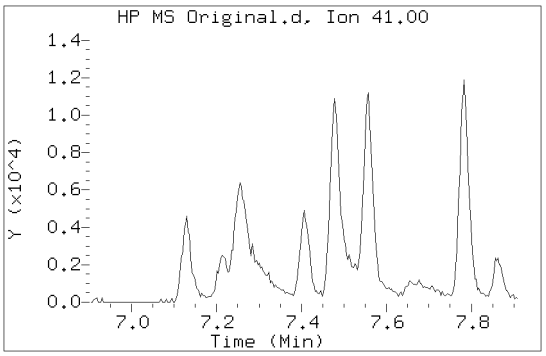

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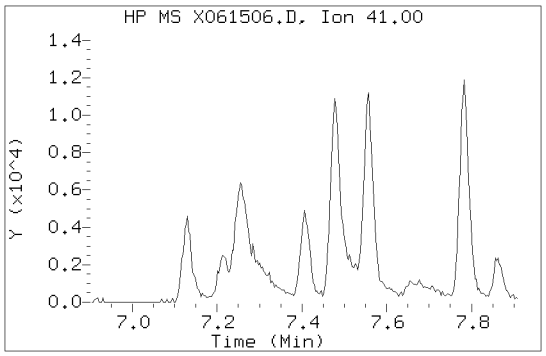

Isoprene (78-79-5)

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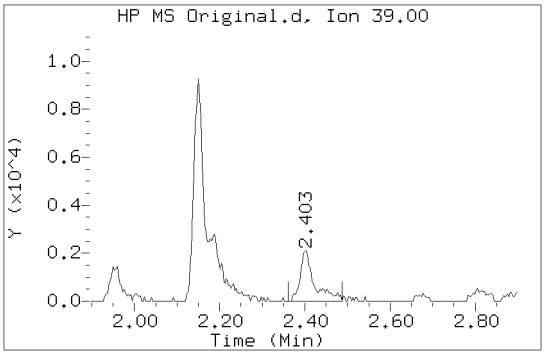

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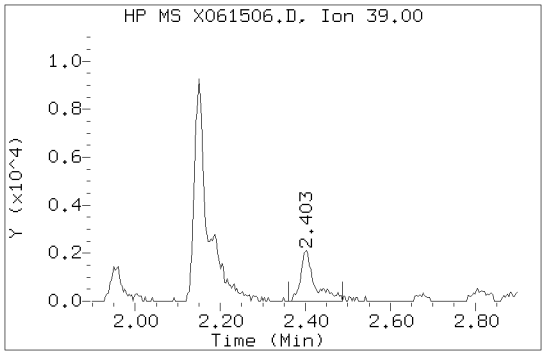

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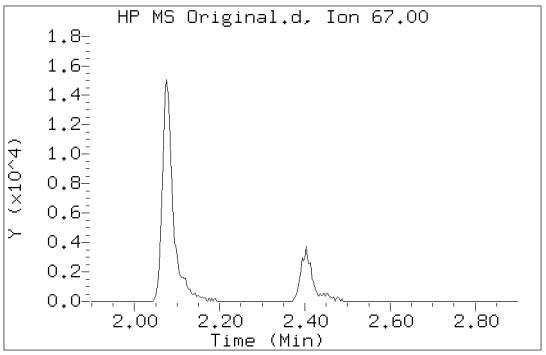

AFTER
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12-Jul-2024
11:38
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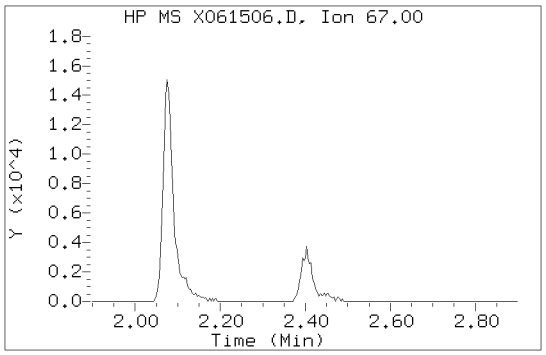

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InstruID : voa7.i
LabSampID : VSTD010

Isoprene (78-79-5)

Reason Code:

BEFORE

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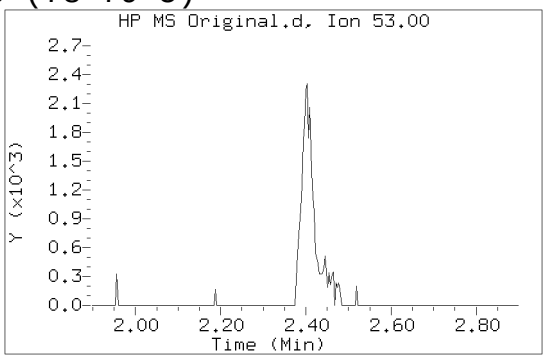

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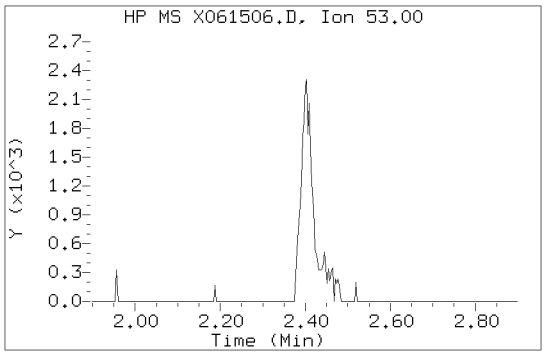

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Report Date: 12-Jul-2024 11:43

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061507.D
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Inj Date : 15-JUN-2024 15:55
Operator : AP Inst ID: voa7.i
Smp Info : VSTD020;VSTD020;1;6
Misc Info : HS220328V7;WATER;0;1;
Comment   :
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Meth Date : 12-Jul-2024 11:43 voa7.i Quant Type: ISTD
Cal Date : 15-JUN-2024 17:04 Cal File: X061510.D
Als bottle: 7 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

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)	124594	50.0000	
2 Dichlorodifluoromethane	85	1.297	1.297	(0.253)	28839	20.0000	21.63
159 Dichlorofluoromethane	67	2.075	2.075	(0.404)	52647	20.0000	20.29
3 Chloromethane	50	1.448	1.448	(0.282)	41944	20.0000	21.28
4 Propionitrile	54	4.673	4.673	(0.910)	35353	200.000	204.16
5 Vinyl Chloride	62	1.535	1.535	(0.299)	36777	20.0000	20.83
6 Bromomethane	94	1.811	1.811	(0.353)	20870	20.0000	21.22
7 Chloroethane	64	1.898	1.898	(0.370)	22690	20.0000	21.00
8 Trichlorofluoromethane	101	2.110	2.110	(0.411)	48951	20.0000	21.30
9 Acrolein	56	2.519	2.519	(0.491)	1369	40.0000	38.99
10 Acetone	43	2.667	2.667	(0.520)	20213	40.0000	43.42
11 1,1-Dichloroethene	96	2.593	2.593	(0.505)	26084	20.0000	20.43
12 Isobutyl Alcohol	43	5.573	5.573	(1.086)	89796	400.000	422.96
13 Acetonitrile	39	2.959	2.959	(0.577)	42483	200.000	216.58
14 Allyl Chloride	41	2.959	2.959	(0.577)	86958	20.0000	21.16
15 Iodomethane	142	2.741	2.741	(0.534)	58277	40.0000	38.24
16 Acrylonitrile	53	3.377	3.377	(0.658)	19099	40.0000	43.09
17 Methylene Chloride	84	3.094	3.094	(0.603)	32051	20.0000	20.75
18 Methyl tert-butyl ether	73	3.381	3.381	(0.659)	71378	20.0000	20.33
19 Carbon Disulfide	76	2.795	2.795	(0.545)	166994	40.0000	42.10

20 trans-1,2-Dichloroethene	96	3.377	3.377 (0.658)	28094	20.0000	20.93
21 Vinyl Acetate	43	4.660	4.660 (0.908)	31984	40.0000	43.56

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061507.D Page 2
Report Date: 12-Jul-2024 11:43

	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)	56413	20.0000	19.25
23	Chloroprene	53	3.966	3.966	(0.773)	48530	20.0000	20.83
24	2-Butanone	43	4.589	4.589	(0.894)	26703	40.0000	42.88
25	Methacrylonitrile	41	2.149	2.149	(0.419)	44332	20.0000	21.34
26	2,2-Dichloropropane	77	4.538	4.538	(0.884)	49271	20.0000	19.81
27	cis-1,2-Dichloroethene	96	4.548	4.548	(0.886)	30961	20.0000	20.50
28	Chloroform	83	4.905	4.905	(0.956)	56287	20.0000	20.76
29	Bromochloromethane	128	4.805	4.805	(0.936)	14921	20.0000	20.36
$ 30	Dibromofluoromethane	113	5.072	5.072	(0.988)	28103	20.0000	20.45
31	1,1,1-Trichloroethane	97	5.072	5.072	(0.988)	47625	20.0000	20.36
32	1,1-Dichloropropene	75	5.245	5.245	(0.896)	42007	20.0000	20.62
33	1,2-Dichloroethane	62	5.490	5.490	(0.938)	44715	20.0000	19.53
34	Carbon Tetrachloride	117	5.236	5.236	(0.895)	39998	20.0000	19.91
$ 35	1,2-Dichloroethane-d4	65	5.416	5.416	(1.055)	36252	20.0000	19.79
* 36	1,4-Difluorobenzene	114	5.853	5.853	(1.000)	208409	50.0000	
37	Benzene	78	5.454	5.454	(0.932)	118343	20.0000	21.02
38	Trichloroethene	130	6.085	6.085	(1.040)	29895	20.0000	20.74
39	Bromodichloromethane	83	6.573	6.573	(1.123)	42819	20.0000	18.45
40	Methyl Methacrylate	41	6.432	6.432	(1.253)	30778	20.0000	22.12
41	2-Chloroethylvinyl ether	63	6.856	6.856	(1.171)	23020	40.0000	40.76
42	1,2-Dichloropropane	63	6.310	6.310	(1.078)	33533	20.0000	20.72
43	2-Nitropropane	43	6.802	6.802	(1.325)	9001	20.0000	20.35
44	Dibromomethane	93	6.422	6.422	(1.097)	18203	20.0000	19.90
45	4-Methyl-2-Pentanone	43	7.126	7.126	(0.842)	62229	40.0000	41.65
46	cis-1,3-Dichloropropene	75	6.975	6.975	(1.192)	45737	20.0000	20.27
* 47	Chlorobenzene-d5	117	8.467	8.467	(1.000)	194699	50.0000	
$ 48	Toluene-d8	98	7.207	7.207	(0.851)	99784	20.0000	20.40
49	Ethyl Methacrylate	69	8.078	8.078	(1.380)	34541	20.0000	19.32
50	Toluene	91	7.265	7.265	(0.858)	122540	20.0000	20.96
51	trans-1,3-Dichloropropene	75	6.975	6.975	(1.192)	45737	20.0000	20.27
52	2-Hexanone	43	7.863	7.863	(0.929)	41660	40.0000	40.54
53	1,1,2-Trichloroethane	83	7.641	7.641	(0.902)	22410	20.0000	20.23
54	1,3-Dichloropropane	76	7.785	7.785	(0.919)	49217	20.0000	20.75
55	Dibromochloromethane	129	7.975	7.975	(0.942)	29764	20.0000	18.66
56	Tetrachloroethene	164	7.734	7.734	(0.913)	23595	20.0000	21.34
57	1,2-Dibromoethane	107	8.072	8.072	(0.953)	24851	20.0000	21.14
58	1-Chlorohexane	55	8.470	8.470	(1.447)	32894	20.0000	21.56
59	Chlorobenzene	112	8.490	8.490	(1.003)	80596	20.0000	21.03
60	1,1,1,2-Tetrachloroethane	131	8.567	8.567	(1.012)	26330	20.0000	19.77
61	Ethylbenzene	106	8.580	8.580	(1.013)	41428	20.0000	20.99
62	m,p-Xylenes	106	8.683	8.683	(1.025)	102849	40.0000	41.60
63	o-Xylene	106	9.027	9.027	(1.066)	50923	20.0000	21.24
64	Styrene	104	9.039	9.039	(1.068)	88577	20.0000	20.96
66	Bromoform	173	9.203	9.203	(1.087)	18630	20.0000	18.52
67	Isopropylbenzene	105	9.338	9.338	(1.103)	129852	20.0000	21.12
68	1,1,2,2-Tetrachloroethane	83	9.612	9.612	(0.919)	34557	20.0000	20.50
$ 69	4-Bromofluorobenzene	95	9.474	9.474	(1.119)	39550	20.0000	19.81
* 70	1,4-Dichlorobenzene-d4	152	10.457	10.457	(1.000)	98711	50.0000	
71	1,2,3-Trichloropropane	75	9.647	9.647	(0.923)	39172	20.0000	20.56
72	trans-1,4-Dichloro-2-butene	53	9.657	9.657	(1.140)	8453	20.0000	20.02
73	n-Propylbenzene	91	9.689	9.689	(0.927)	156297	20.0000	21.22
74	Bromobenzene	156	9.602	9.602	(0.918)	33759	20.0000	20.94

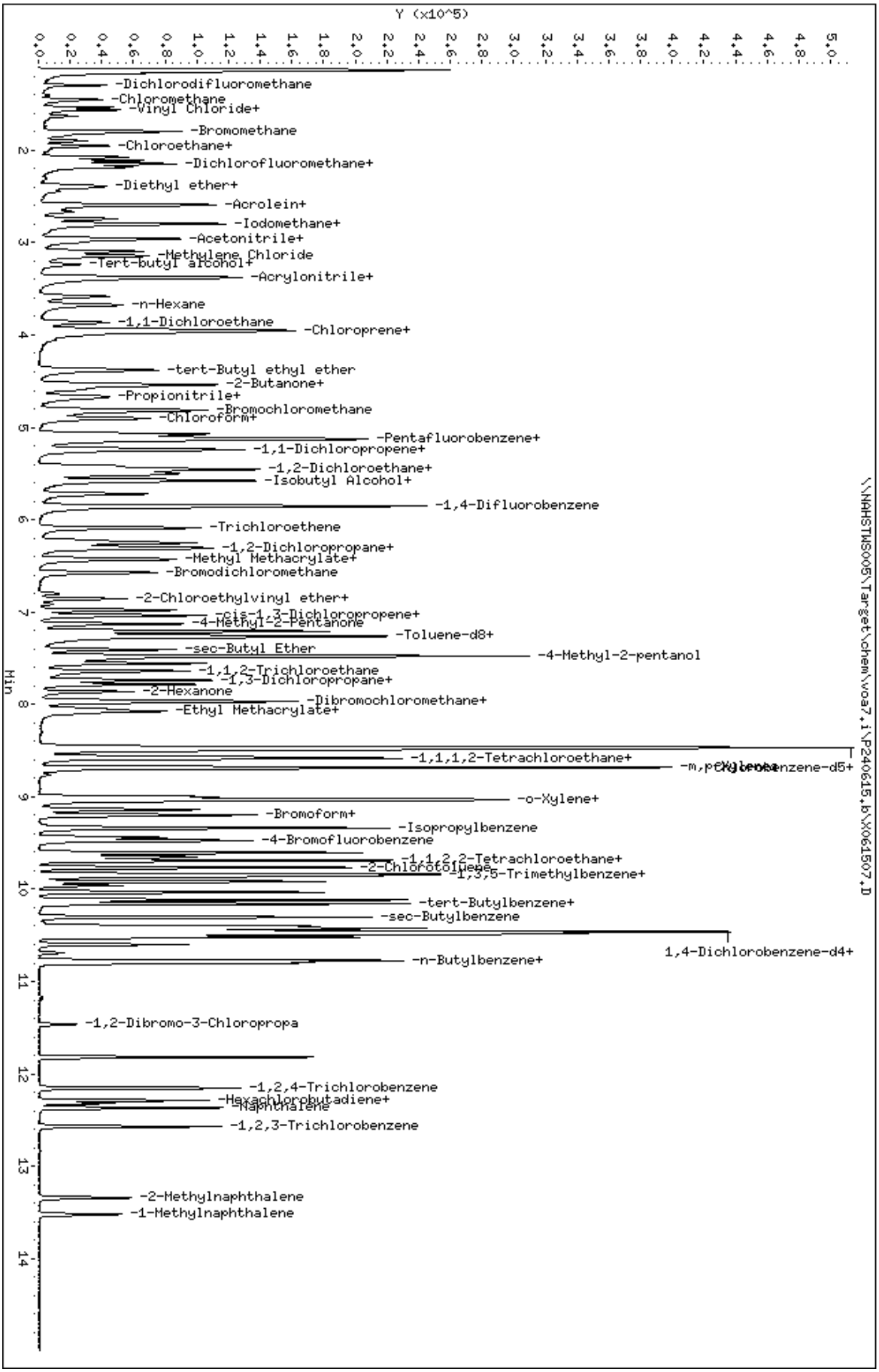
75	1,3,5-Trimethylbenzene	105	9.837	9.837 (0.941)	111094	20.0000	21.07
76	2-Chlorotoluene	91	9.766	9.766 (0.934)	96301	20.0000	21.26

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061507.D Page 3
Report Date: 12-Jul-2024 11:43

	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)	112941	20.0000	21.18
78	tert-Butylbenzene	119	10.117	10.117	(0.967)	93334	20.0000	21.35
79	1,2,4-Trimethylbenzene	105	10.158	10.158	(0.971)	111249	20.0000	21.16
81	sec-Butylbenzene	105	10.303	10.303	(0.985)	126981	20.0000	21.21
82	p-Isopropyltoluene	119	10.425	10.425	(0.997)	112629	20.0000	20.88
83	1,3-Dichlorobenzene	146	10.403	10.403	(0.995)	61913	20.0000	20.89
84	1,4-Dichlorobenzene	146	10.477	10.477	(1.002)	63976	20.0000	21.00
87	n-Butylbenzene	91	10.772	10.772	(1.030)	106249	20.0000	20.93
88	1,2-Dichlorobenzene	146	10.798	10.798	(1.033)	58851	20.0000	20.63
89	1,2-Dibromo-3-Chloropropane	75	11.461	11.461	(1.096)	5385	20.0000	18.45
90	1,2,4-Trichlorobenzene	180	12.152	12.152	(1.162)	35263	20.0000	19.34
91	Hexachlorobutadiene	225	12.287	12.287	(1.175)	17891	20.0000	20.41
92	Naphthalene	128	12.367	12.367	(1.183)	76418	20.0000	18.04
93	1,2,3-Trichlorobenzene	182	12.570	12.570	(1.202)	28600	20.0000	18.55
135	1,4-Dioxane	88	6.448	6.448	(1.256)	3941	400.000	382.08(TAM)
146	Methyl acetate	43	2.991	2.991	(0.583)	21764	20.0000	21.11(T)
138	Freon TF	101	2.593	2.593	(0.505)	26055	20.0000	20.69
139	Diethyl ether	59	2.384	2.384	(0.464)	16456	20.0000	18.11
140	1,3-Butadiene	54	1.564	1.564	(0.305)	16653	20.0000	21.08
141	Cyclohexane	56	5.110	5.110	(0.996)	46236	20.0000	20.49
147	Methylcyclohexane	83	6.249	6.249	(1.068)	39114	20.0000	20.09
132	n-Butanol	56	6.249	6.249	(1.217)	17201	400.000	433.56(T)
131	Methyl Acrylate	55	4.689	4.689	(0.914)	29836	20.0000	21.09
133	Ethyl Acrylate	55	6.223	6.223	(1.212)	71264	20.0000	20.32
136	n-Hexane	57	3.676	3.676	(0.716)	31606	20.0000	20.29
142	Tetrahydrofuran	42	4.863	4.863	(0.947)	9492	40.0000	41.68
148	Tert-butyl alcohol	59	3.239	3.239	(0.631)	35062	400.000	381.32
149	Isopropyl alcohol	45	2.815	2.815	(0.548)	28470	400.000	435.56
151	4-Methyl-2-pentanol	45	7.477	7.477	(0.883)	205136	400.000	398.00
166	1,2,3-Trimethylbenzene	105	10.518	10.518	(1.006)	97162	20.0000	19.11
167	Ethanol	45	2.307	2.307	(0.449)	4446	400.000	403.25
172	tert-Butyl formate	59	3.239	3.239	(0.631)	35062	40.0000	44.12
173	3,3-Dimethyl-1-butanol	57	8.046	8.046	(0.950)	46934	400.000	380.13
174	tert-Amyl methyl ether	73	5.577	5.577	(1.086)	78689	20.0000	20.58
175	tert-Butyl ethyl ether	59	4.377	4.377	(0.853)	83072	20.0000	19.55
157	2-Methylnaphthalene	142	13.342	13.342	(1.276)	28291	20.0000	18.35
156	Diisopropyl ether	45	3.946	3.946	(0.769)	95776	20.0000	19.35(T)
171	1-Methylnaphthalene	142	13.522	13.522	(1.293)	23644	20.0000	17.35
130	Ethyl Acetate	43	3.946	3.946	(0.769)	170533	20.0000	19.73(T)
176	tert-Amyl alcohol	59	5.515	5.515	(1.075)	31609	400.000	415.00(A)
160	Epichlorohydrin	57	6.917	6.917	(1.182)	7172	80.0000	80.14
161	Butyl acrylate	55	8.998	8.998	(1.063)	64266	20.0000	19.58
182	Isobutylene	56	1.956	1.956	(0.381)	4122	20.0000	20.63(AM)
183	Isopropyl Acetate	43	5.573	5.573	(0.952)	89796	20.0000	21.11(A)
184	n-Amyl acetate	43	9.194	9.194	(1.086)	61241	20.0000	19.49(A)
185	Acetaldehyde	44	1.631	1.631	(0.318)	18371	80.0000	89.09(AM)
186	n-Butyl acetate	43	7.969	7.969	(0.941)	46894	20.0000	19.79(TAM)
187	2-Etyhlhexyl Acrylate	55	12.319	12.319	(1.178)	14116	20.0000	14.43(AM)
188	Tetrahydrothiophene	60	7.959	7.959	(0.940)	30843	20.0000	19.95(TAM)
189	sec-Butyl Ether	57	7.406	7.406	(0.875)	30749	20.0000	22.38(TAM)
190	Isoprene	39	2.403	2.403	(0.468)	7304	20.0000	19.30(TAM)
191	2-Chloropropene	41	2.149	2.149	(0.419)	44332	20.0000	20.68(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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Sample Info: VSTD020;VSTD020;1;6
Purge Volume: 5.0
Column phase: DB624

Instrument: voa7,i
Operator: AP
Column diameter: 0.18

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InstruID : voa7.i
LabSampID : VSTD020

1,4-Dioxane ()

Reason Code:

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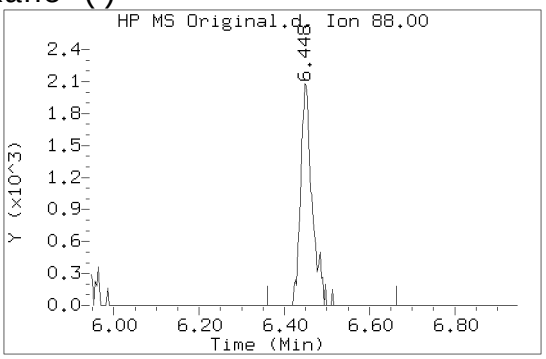

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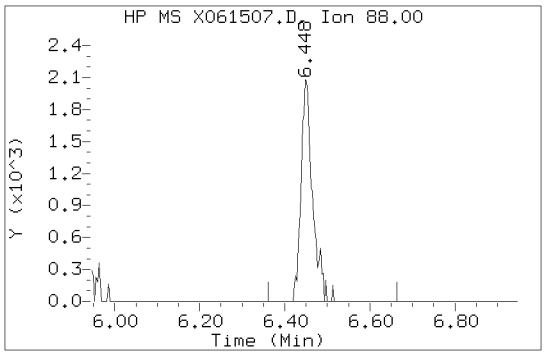

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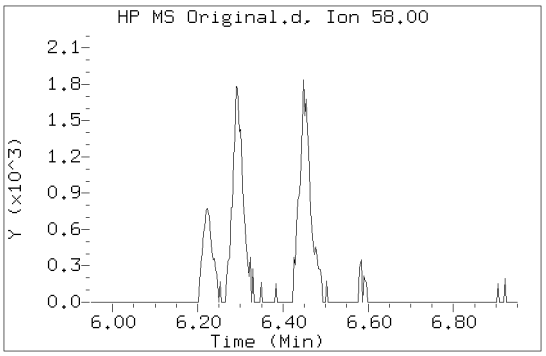

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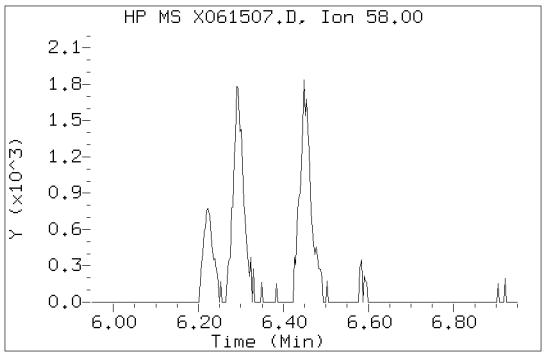

Isobutylene (115-11-7)

Reason Code:

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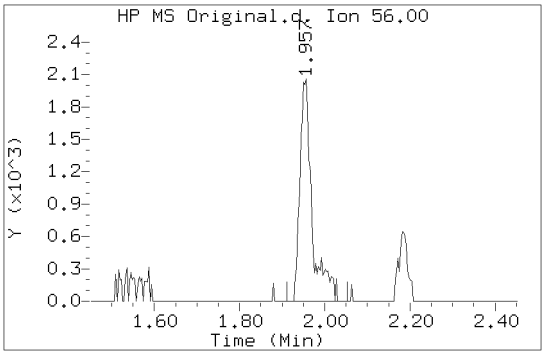

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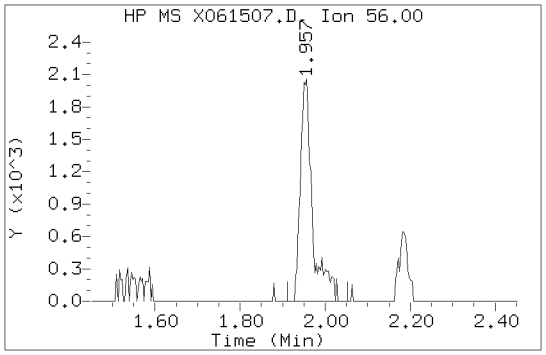

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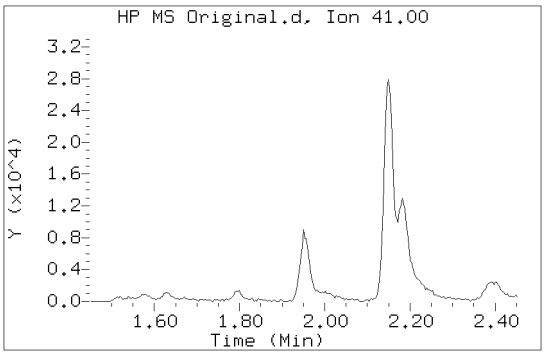

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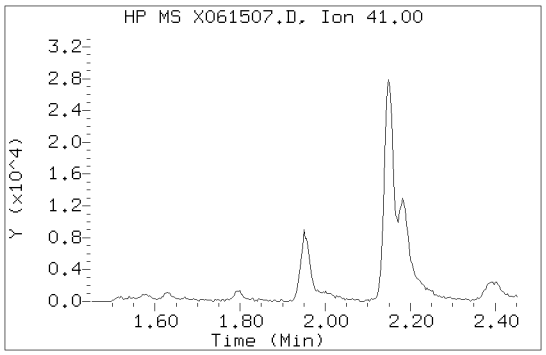

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LabSampID : VSTD020

Isobutylene (115-11-7)

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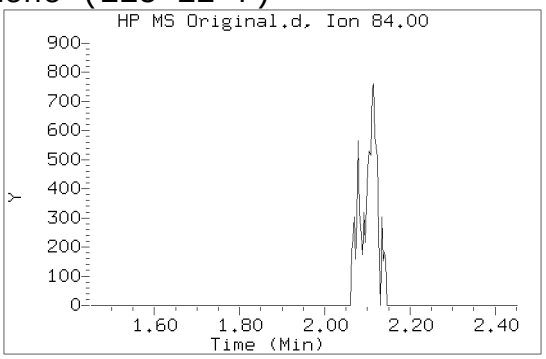

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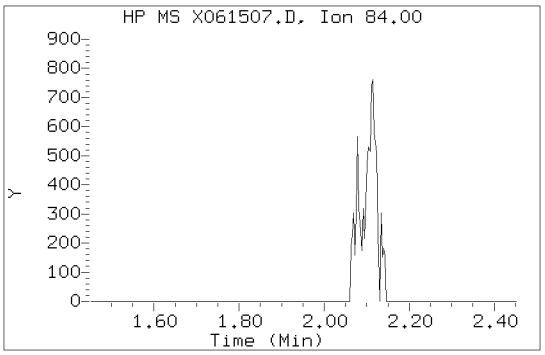

Acetaldehyde (75-07-0)

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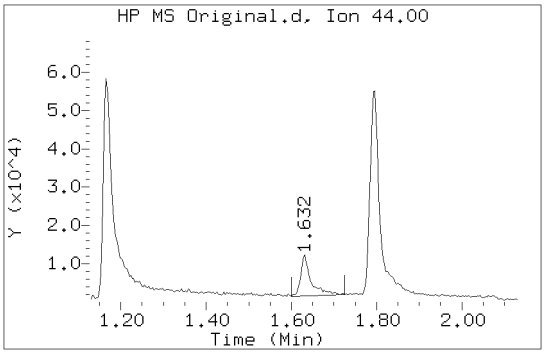

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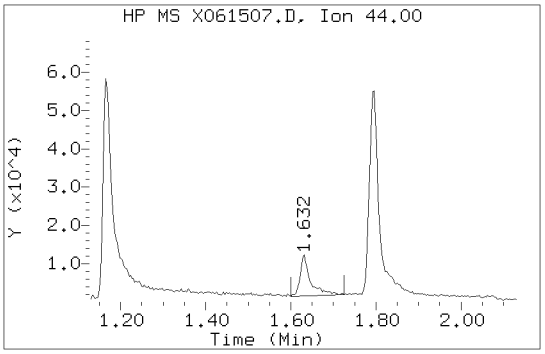

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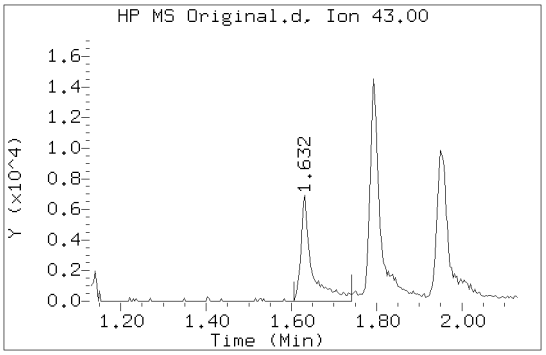

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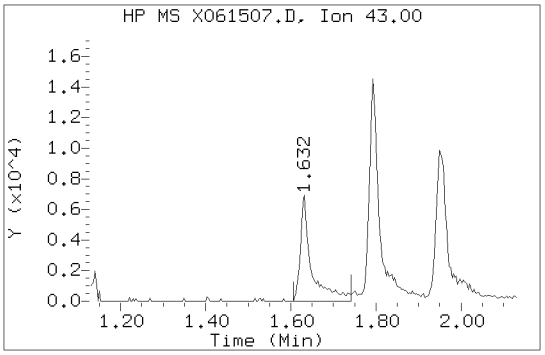

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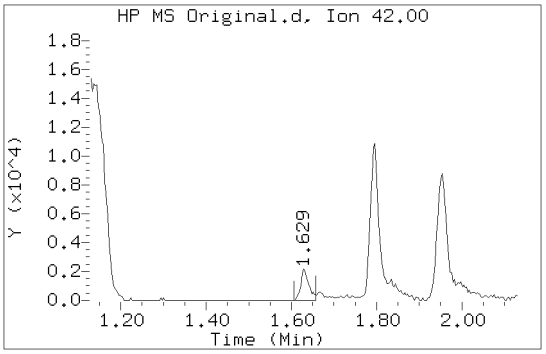

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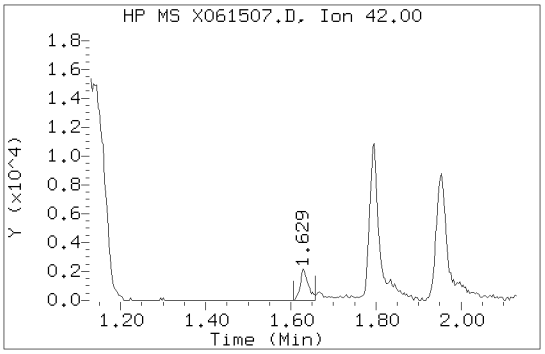

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InstruID : voa7.i
LabSampID : VSTD020

n-Butyl acetate (123-86-4)

Reason Code:

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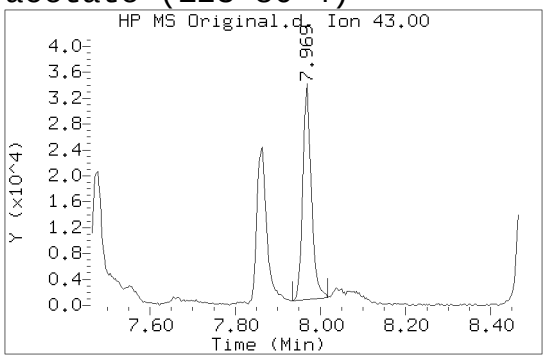

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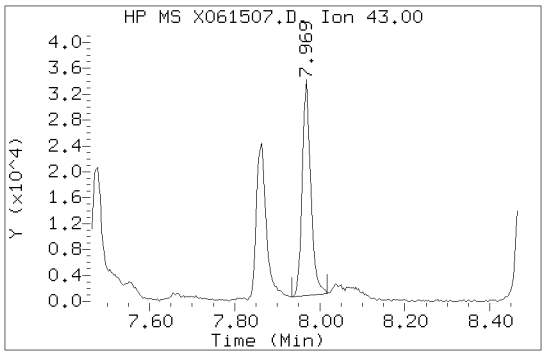

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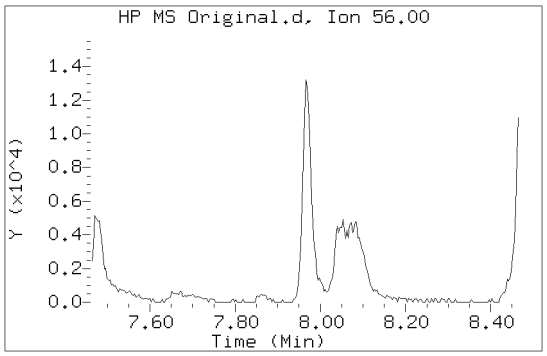

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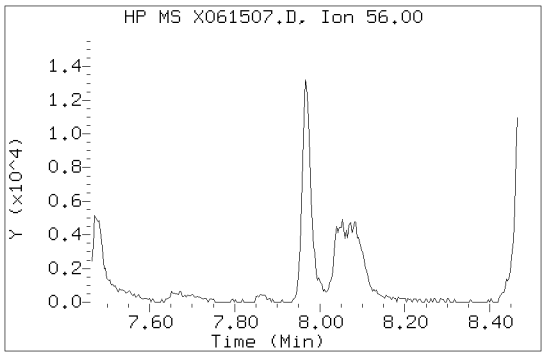

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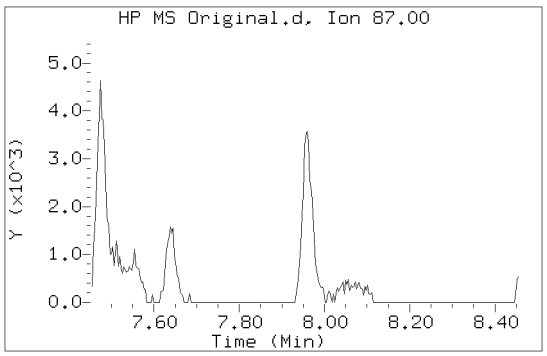

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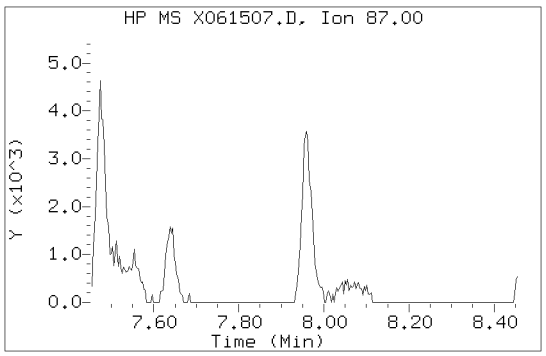

2-Etyhlhexyl Acrylate (103-11-7)

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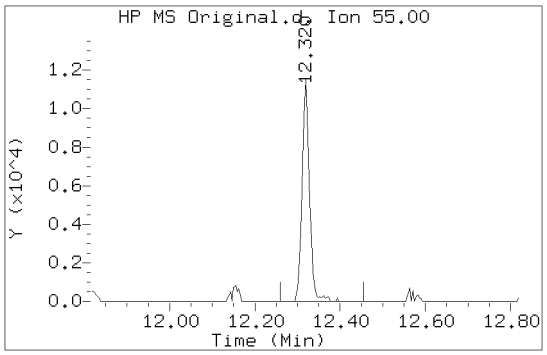

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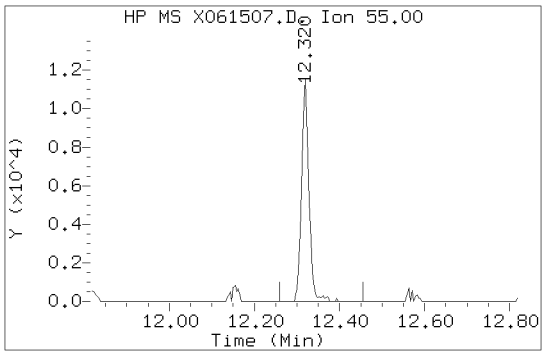

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InstruID : voa7.i
LabSampID : VSTD020

2-Etyhlhexyl Acrylate (103-11-7)

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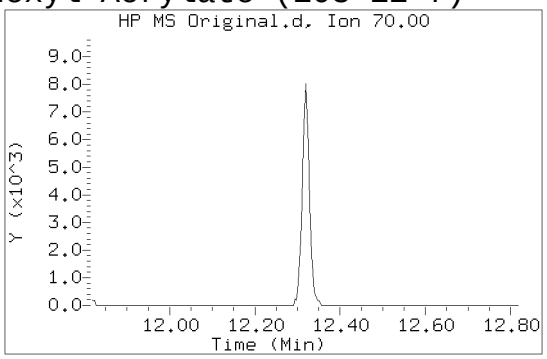

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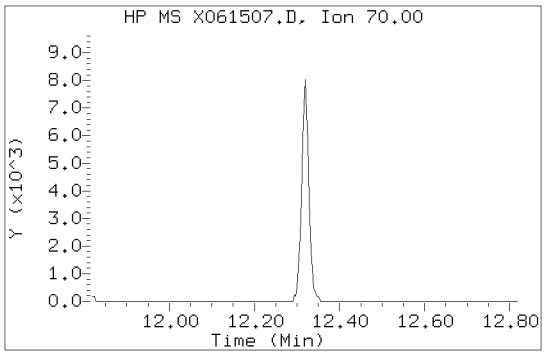

Tetrahydrothiophene (110-01-0)

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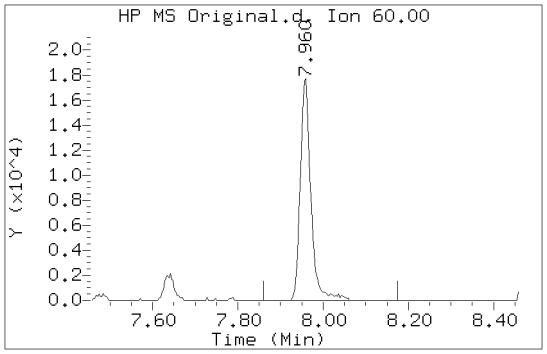

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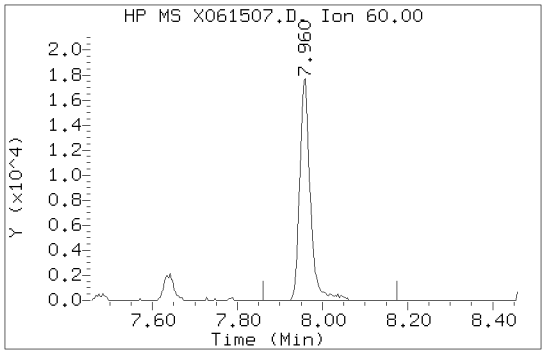

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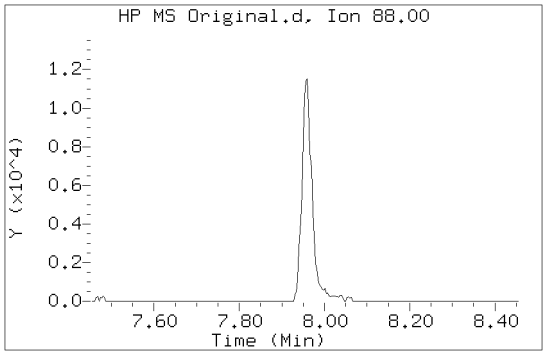

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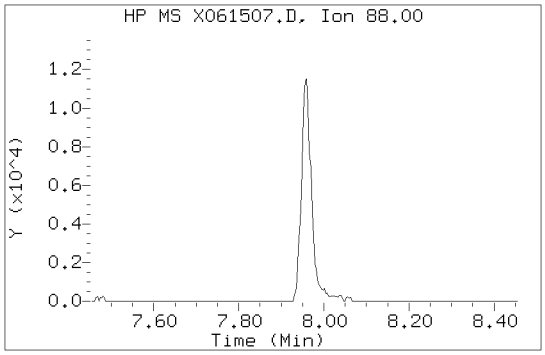

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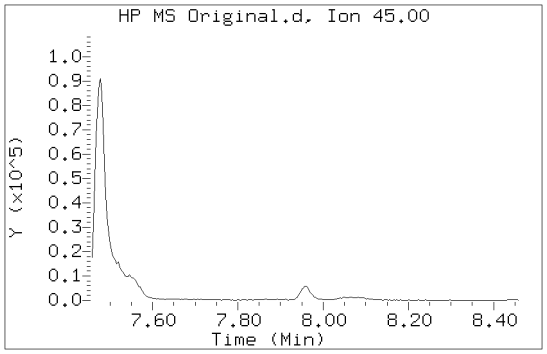

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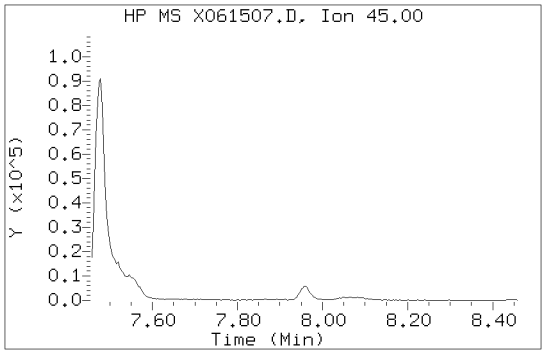

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Inj Date : 15-JUN-2024 15:55
InstruID : voa7.i
LabSampID : VSTD020

sec-Butyl Ether (6863-58-7)

Reason Code:

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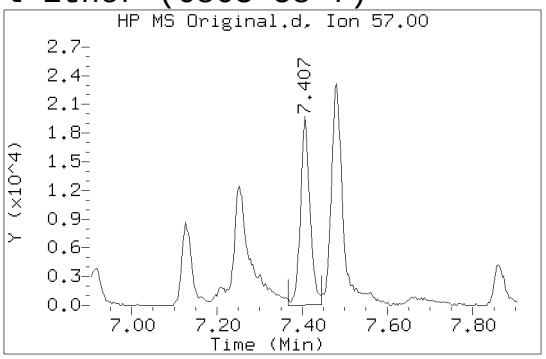

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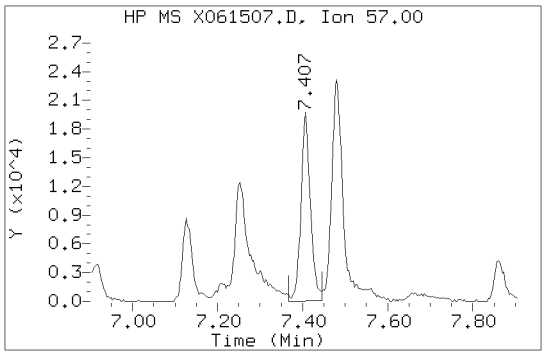

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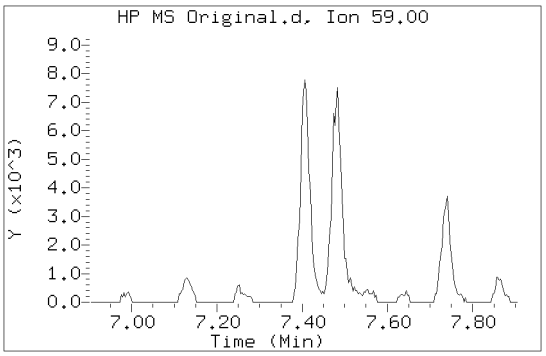

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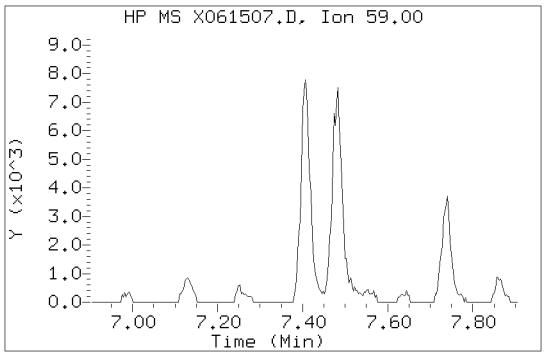

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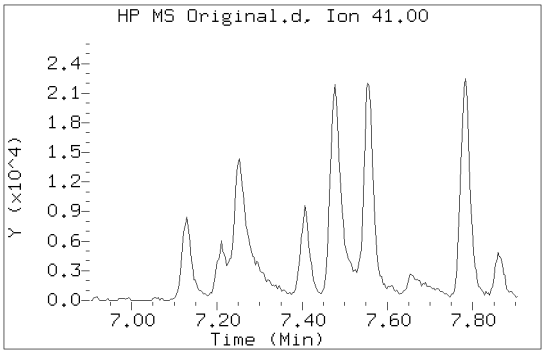

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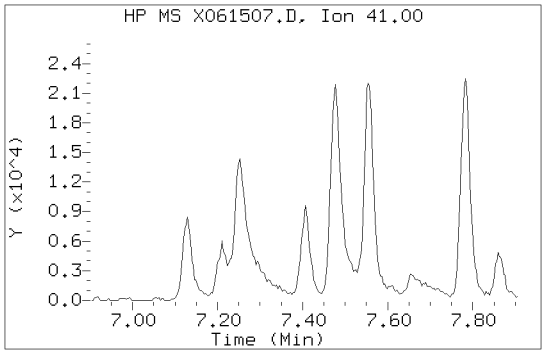

Isoprene (78-79-5)

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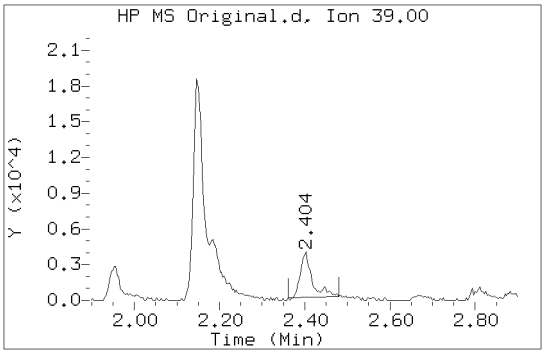

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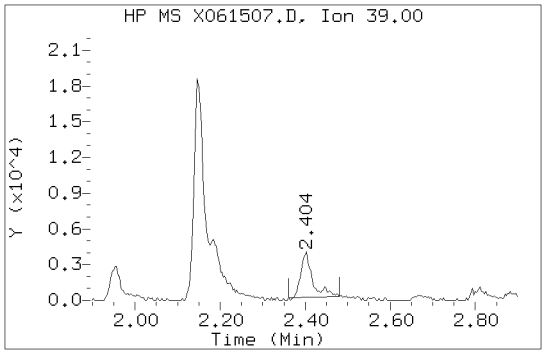

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Inj Date : 15-JUN-2024 15:55
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LabSampID : VSTD020

Isoprene (78-79-5)

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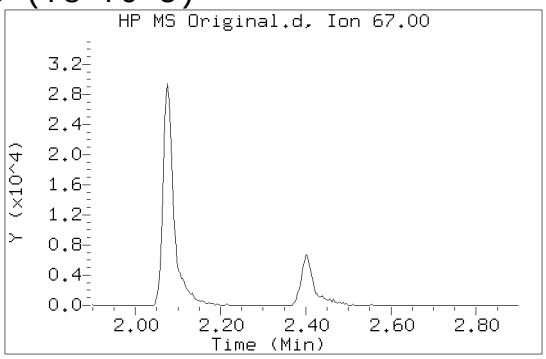

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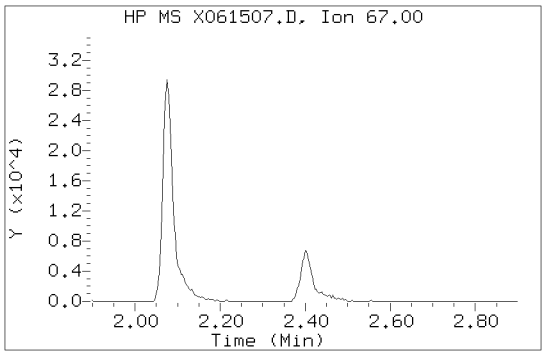

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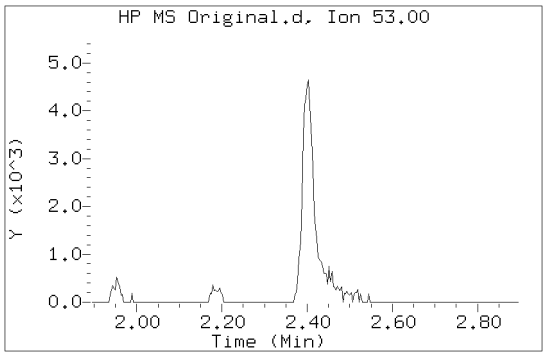

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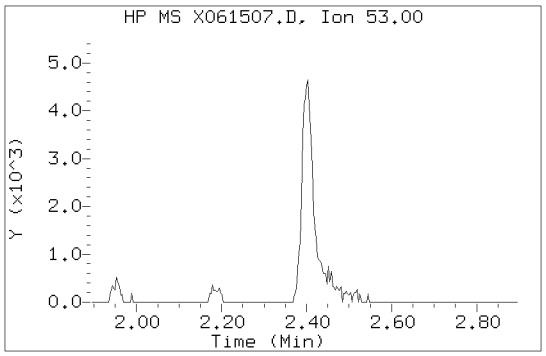

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061508.D Page 1
Report Date: 12-Jul-2024 11:38

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061508.D
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Inj Date : 15-JUN-2024 16:18
Operator : AP Inst ID: voa7.i
Smp Info : VSTD050;VSTD050;1;7
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240615.b\8260W.m
Meth Date : 12-Jul-2024 11:38 voa7.i Quant Type: ISTD
Cal Date : 15-JUN-2024 15:55 Cal File: X061507.D
Als bottle: 8 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

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)	128344	50.0000	
2	Dichlorodifluoromethane	85	1.294	1.294	(0.252)	67807	50.0000	49.82
159	Dichlorofluoromethane	67	2.072	2.072	(0.404)	127004	50.0000	47.51
3	Chloromethane	50	1.448	1.448	(0.282)	99995	50.0000	50.54
4	Propionitrile	54	4.667	4.667	(0.910)	88867	500.000	512.34
5	Vinyl Chloride	62	1.535	1.535	(0.299)	89994	50.0000	49.69
6	Bromomethane	94	1.805	1.805	(0.352)	49751	50.0000	50.94
7	Chloroethane	64	1.892	1.892	(0.369)	55213	50.0000	50.19
8	Trichlorofluoromethane	101	2.110	2.110	(0.411)	118069	50.0000	50.37
9	Acrolein	56	2.512	2.512	(0.490)	3825	100.000	105.77
10	Acetone	43	2.663	2.663	(0.519)	46665	100.000	104.73
11	1,1-Dichloroethene	96	2.589	2.589	(0.505)	66065	50.0000	50.02
12	Isobutyl Alcohol	43	5.573	5.573	(1.086)	215753	1000.00	1011.38
13	Acetonitrile	39	2.959	2.959	(0.577)	98067	500.000	493.21
14	Allyl Chloride	41	2.956	2.956	(0.576)	208497	50.0000	50.54
15	Iodomethane	142	2.741	2.741	(0.534)	160800	100.000	95.98
16	Acrylonitrile	53	3.380	3.380	(0.659)	46177	100.000	102.38
17	Methylene Chloride	84	3.094	3.094	(0.603)	78686	50.0000	51.96
18	Methyl tert-butyl ether	73	3.380	3.380	(0.659)	173468	50.0000	47.58
19	Carbon Disulfide	76	2.795	2.795	(0.545)	403665	100.000	99.59

20 trans-1,2-Dichloroethene	96	3.374	3.374 (0.658)	69367	50.0000	50.56
21 Vinyl Acetate	43	4.657	4.657 (0.908)	77286	100.000	106.74

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061508.D Page 2
Report Date: 12-Jul-2024 11:38

	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)	143941	50.0000	47.70
	23 Chloroprene	53	3.962	3.962	(0.772)	119116	50.0000	49.70
	24 2-Butanone	43	4.593	4.593	(0.895)	61852	100.000	101.76
	25 Methacrylonitrile	41	2.149	2.149	(0.419)	106233	50.0000	49.66
	26 2,2-Dichloropropane	77	4.532	4.532	(0.883)	123565	50.0000	48.24
	27 cis-1,2-Dichloroethene	96	4.544	4.544	(0.886)	78589	50.0000	51.30
	28 Chloroform	83	4.904	4.904	(0.956)	140096	50.0000	51.29
	29 Bromochloromethane	128	4.808	4.808	(0.937)	38434	50.0000	51.53
$	30 Dibromofluoromethane	113	5.072	5.072	(0.989)	70864	50.0000	51.81
	31 1,1,1-Trichloroethane	97	5.068	5.068	(0.988)	121911	50.0000	50.61
	32 1,1-Dichloropropene	75	5.242	5.242	(0.896)	104921	50.0000	49.78
	33 1,2-Dichloroethane	62	5.493	5.493	(0.938)	119958	50.0000	51.53
	34 Carbon Tetrachloride	117	5.232	5.232	(0.894)	103211	50.0000	48.45
$	35 1,2-Dichloroethane-d4	65	5.416	5.416	(1.056)	95083	50.0000	52.10
*	36 1,4-Difluorobenzene	114	5.853	5.853	(1.000)	214883	50.0000	
	37 Benzene	78	5.458	5.458	(0.932)	286859	50.0000	50.07
	38 Trichloroethene	130	6.088	6.088	(1.040)	74816	50.0000	50.55
	39 Bromodichloromethane	83	6.573	6.573	(1.123)	109283	50.0000	45.68
	40 Methyl Methacrylate	41	6.432	6.432	(1.254)	67573	50.0000	49.16
	41 2-Chloroethylvinyl ether	63	6.853	6.853	(1.171)	60694	100.000	103.86(A)
	42 1,2-Dichloropropane	63	6.310	6.310	(1.078)	83636	50.0000	50.73
	43 2-Nitropropane	43	6.798	6.798	(1.325)	21914	50.0000	47.62
	44 Dibromomethane	93	6.419	6.419	(1.097)	47163	50.0000	50.08
	45 4-Methyl-2-Pentanone	43	7.126	7.126	(0.842)	154085	100.000	104.42
	46 cis-1,3-Dichloropropene	75	6.975	6.975	(1.192)	114066	50.0000	48.43
*	47 Chlorobenzene-d5	117	8.467	8.467	(1.000)	197365	50.0000	
$	48 Toluene-d8	98	7.207	7.207	(0.851)	255028	50.0000	53.54
	49 Ethyl Methacrylate	69	8.043	8.043	(1.374)	92940	50.0000	49.07
	50 Toluene	91	7.265	7.265	(0.858)	300469	50.0000	51.62
	51 trans-1,3-Dichloropropene	75	6.975	6.975	(1.192)	114066	50.0000	48.43
	52 2-Hexanone	43	7.863	7.863	(0.929)	107938	100.000	108.26
	53 1,1,2-Trichloroethane	83	7.637	7.637	(0.902)	58061	50.0000	53.04
	54 1,3-Dichloropropane	76	7.782	7.782	(0.919)	122388	50.0000	52.03
	55 Dibromochloromethane	129	7.978	7.978	(0.942)	78493	50.0000	48.55
	56 Tetrachloroethene	164	7.737	7.737	(0.914)	57283	50.0000	51.22
	57 1,2-Dibromoethane	107	8.075	8.075	(0.954)	59797	50.0000	51.45
	58 1-Chlorohexane	55	8.470	8.470	(1.447)	76561	50.0000	51.64
	59 Chlorobenzene	112	8.490	8.490	(1.003)	196413	50.0000	51.52
	60 1,1,1,2-Tetrachloroethane	131	8.564	8.564	(1.011)	68615	50.0000	50.11
	61 Ethylbenzene	106	8.583	8.583	(1.014)	103348	50.0000	52.44
	62 m,p-Xylenes	106	8.682	8.682	(1.025)	254041	100.000	102.95
	63 o-Xylene	106	9.023	9.023	(1.066)	124111	50.0000	52.12
	64 Styrene	104	9.036	9.036	(1.067)	218355	50.0000	51.87
	66 Bromoform	173	9.207	9.207	(1.087)	49923	50.0000	48.97
	67 Isopropylbenzene	105	9.338	9.338	(1.103)	317579	50.0000	51.41
	68 1,1,2,2-Tetrachloroethane	83	9.608	9.608	(0.919)	89714	50.0000	52.57
$	69 4-Bromofluorobenzene	95	9.477	9.477	(1.119)	101258	50.0000	53.15
*	70 1,4-Dichlorobenzene-d4	152	10.457	10.457	(1.000)	102193	50.0000	
	71 1,2,3-Trichloropropane	75	9.647	9.647	(0.923)	100875	50.0000	52.05
	72 trans-1,4-Dichloro-2-butene	53	9.653	9.653	(1.140)	21969	50.0000	51.08
	73 n-Propylbenzene	91	9.689	9.689	(0.927)	388200	50.0000	50.89
	74 Bromobenzene	156	9.602	9.602	(0.918)	85404	50.0000	51.48

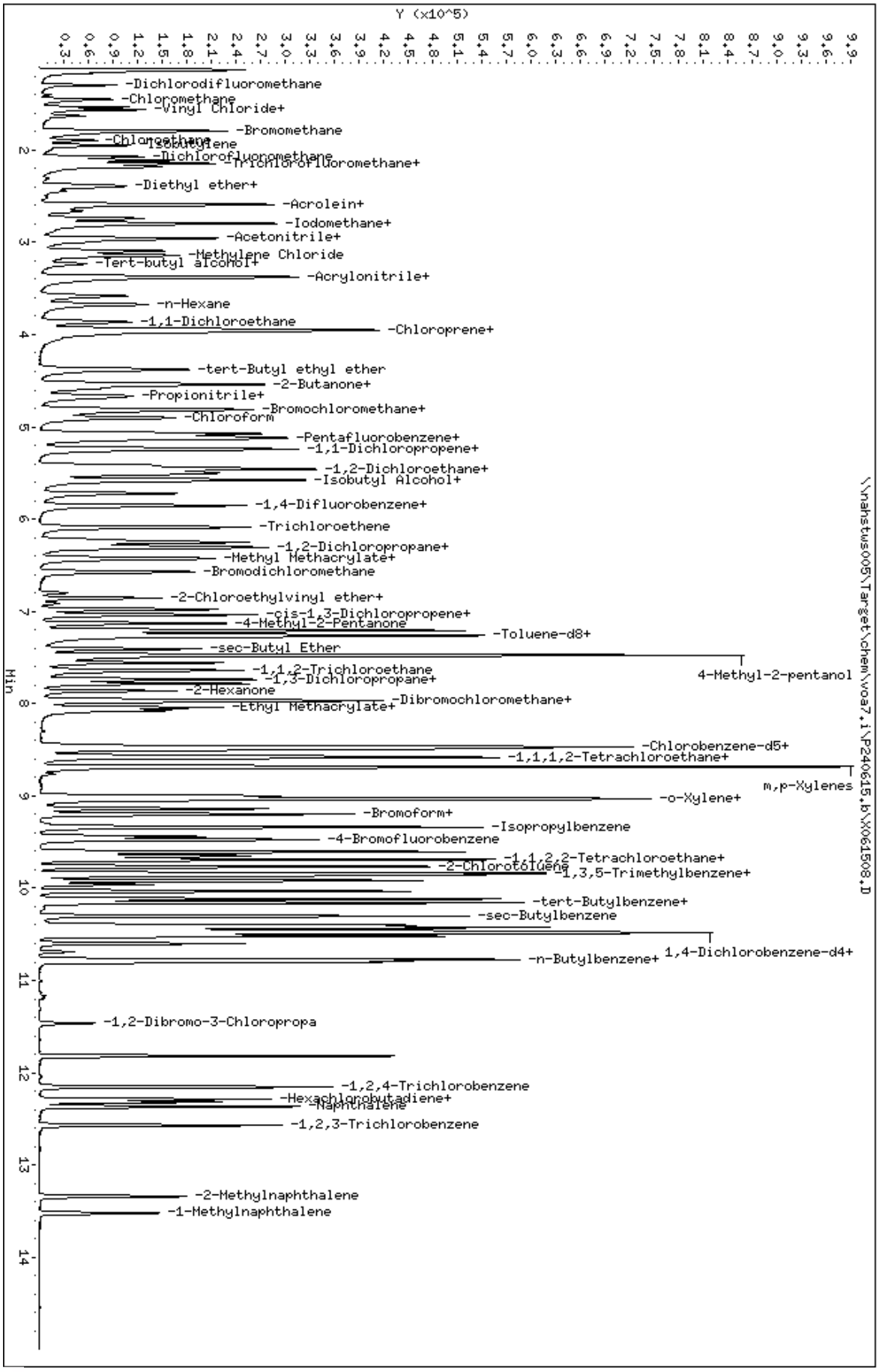
75	1,3,5-Trimethylbenzene	105	9.837	9.837 (0.941)	275793	50.0000	50.24
76	2-Chlorotoluene	91	9.766	9.766 (0.934)	238653	50.0000	51.55

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061508.D Page 3
Report Date: 12-Jul-2024 11:38

	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)	282358	50.0000	51.52
78	tert-Butylbenzene	119	10.116	10.116	(0.967)	231832	50.0000	51.58
79	1,2,4-Trimethylbenzene	105	10.158	10.158	(0.971)	278876	50.0000	51.44
81	sec-Butylbenzene	105	10.303	10.303	(0.985)	317082	50.0000	50.90
82	p-Isopropyltoluene	119	10.425	10.425	(0.997)	285951	50.0000	50.95
83	1,3-Dichlorobenzene	146	10.403	10.403	(0.995)	156769	50.0000	51.30
84	1,4-Dichlorobenzene	146	10.480	10.480	(1.002)	162202	50.0000	52.08
87	n-Butylbenzene	91	10.772	10.772	(1.030)	271859	50.0000	51.77
88	1,2-Dichlorobenzene	146	10.798	10.798	(1.033)	152096	50.0000	51.81
89	1,2-Dibromo-3-Chloropropane	75	11.464	11.464	(1.096)	14588	50.0000	48.30
90	1,2,4-Trichlorobenzene	180	12.152	12.152	(1.162)	97036	50.0000	50.05
91	Hexachlorobutadiene	225	12.287	12.287	(1.175)	46780	50.0000	50.45
92	Naphthalene	128	12.367	12.367	(1.183)	209853	50.0000	47.87
93	1,2,3-Trichlorobenzene	182	12.570	12.570	(1.202)	76087	50.0000	47.68
135	1,4-Dioxane	88	6.448	6.448	(1.257)	10767	1000.00	1037.67(AM)
146	Methyl acetate	43	2.991	2.991	(0.583)	53208	50.0000	51.41
138	Freon TF	101	2.593	2.593	(0.505)	66163	50.0000	50.57
139	Diethyl ether	59	2.377	2.377	(0.463)	46950	50.0000	50.17
140	1,3-Butadiene	54	1.564	1.564	(0.305)	40631	50.0000	48.93
141	Cyclohexane	56	5.110	5.110	(0.996)	113099	50.0000	49.57
147	Methylcyclohexane	83	6.252	6.252	(1.068)	100708	50.0000	47.15
132	n-Butanol	56	6.252	6.252	(1.219)	40162	1000.00	982.74(T)
131	Methyl Acrylate	55	4.689	4.689	(0.914)	70420	50.0000	50.00
133	Ethyl Acrylate	55	6.223	6.223	(1.213)	179702	50.0000	49.76
136	n-Hexane	57	3.673	3.673	(0.716)	85930	50.0000	52.37
142	Tetrahydrofuran	42	4.856	4.856	(0.947)	22991	100.000	96.01
148	Tert-butyl alcohol	59	3.233	3.233	(0.630)	79724	1000.00	841.71
149	Isopropyl alcohol	45	2.811	2.811	(0.548)	67928	1000.00	1048.99
151	4-Methyl-2-pentanol	45	7.474	7.474	(0.883)	510749	1000.00	986.82
166	1,2,3-Trimethylbenzene	105	10.518	10.518	(1.006)	238794	50.0000	45.36
167	Ethanol	45	2.307	2.307	(0.450)	10513	1000.00	997.08
172	tert-Butyl formate	59	3.233	3.233	(0.630)	79724	100.000	100.39
173	3,3-Dimethyl-1-butanol	57	8.039	8.039	(0.949)	129798	1000.00	1004.91
174	tert-Amyl methyl ether	73	5.580	5.580	(1.088)	189636	50.0000	48.38
175	tert-Butyl ethyl ether	59	4.377	4.377	(0.853)	208325	50.0000	47.60
157	2-Methylnaphthalene	142	13.341	13.341	(1.276)	84396	50.0000	52.89
156	Diisopropyl ether	45	3.946	3.946	(0.769)	246963	50.0000	48.45
171	1-Methylnaphthalene	142	13.522	13.522	(1.293)	68471	50.0000	48.53
130	Ethyl Acetate	43	3.946	3.946	(0.769)	443002	50.0000	49.55
176	tert-Amyl alcohol	59	5.509	5.509	(1.074)	79111	1000.00	1043.83(A)
160	Epichlorohydrin	57	6.911	6.911	(1.181)	18432	200.000	197.76
161	Butyl acrylate	55	8.998	8.998	(1.063)	163025	50.0000	48.64
182	Isobutylene	56	1.946	1.946	(0.380)	10572	50.0000	49.68(AM)
183	Isopropyl Acetate	43	5.573	5.573	(0.952)	215753	50.0000	50.01(A)
184	n-Amyl acetate	43	9.194	9.194	(1.086)	158246	50.0000	48.84(A)
185	Acetaldehyde	44	1.628	1.628	(0.317)	41280	200.000	199.41(AM)
186	n-Butyl acetate	43	7.969	7.969	(0.941)	122473	50.0000	52.38(AM)
187	2-Etyhlhexyl Acrylate	55	12.319	12.319	(1.178)	65136	50.0000	50.22(AM)
188	Tetrahydrothiophene	60	7.959	7.959	(0.940)	78695	50.0000	50.46(AM)
189	sec-Butyl Ether	57	7.406	7.406	(0.875)	70483	50.0000	53.74(AM)
190	Isoprene	39	2.400	2.400	(0.468)	18184	50.0000	46.13(AM)
191	2-Chloropropene	41	2.149	2.149	(0.419)	106233	50.0000	48.11(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.


Y (x10^5)
Min
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-Chloromethane
-Vinyl Chloride+
-Bromomethane
-Chloroethane
-Isobutylene
-Dichlorofluoromethane
-Trichlorofluoromethane+
-Diethyl ether+
-Acrolein+
-Iodomethane+
-Acetonitrile+
-Methylene Chloride
-Tert-butyl alcohol+
-Acrylonitrile+
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-1,1-Dichloroethane
-Chloroprene+
-tert-Butyl ethyl ether
-2-Butanone+
-Propionitrile+
-Bromochloromethane+
-Chloroform
-Pentafluorobenzene+
-1,1-Dichloropropene+
-1,2-Dichloroethane+
-Isobutyl Alcohol+
-1,4-Difluorobenzene+
-Trichloroethene
-1,2-Dichloropropane+
-Methyl Methacrylate+
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-Bromoform+
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-4-Bromofluorobenzene
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-1,2,4-Trichlorobenzene
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-Naphthalene
-1,2,3-Trichlorobenzene
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Instrument: voa7,i
Operator: AP
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Page 1

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Inj Date : 15-JUN-2024 16:18
InstruID : voa7.i
LabSampID : VSTD050

1,4-Dioxane ()

Reason Code:

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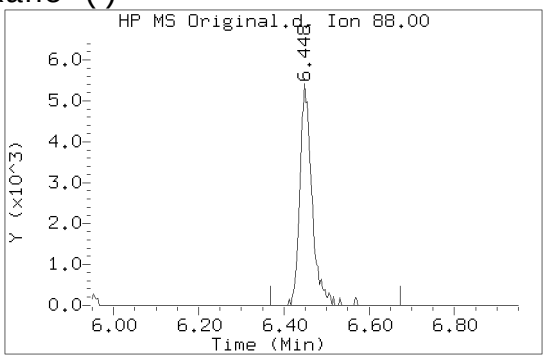

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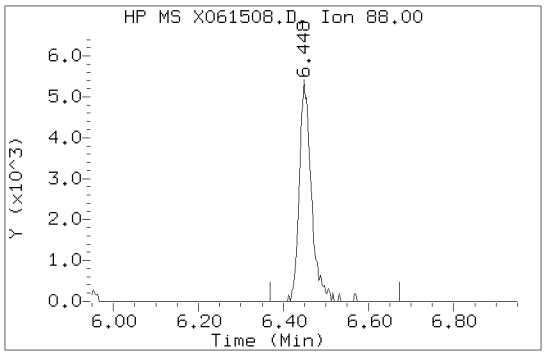

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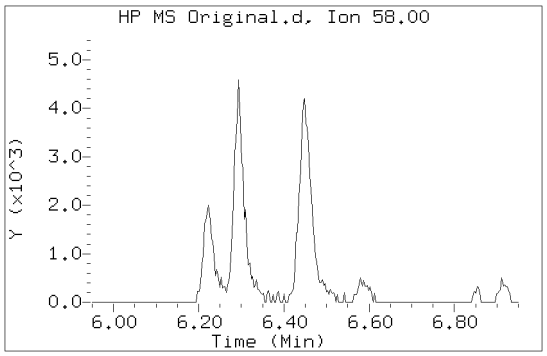

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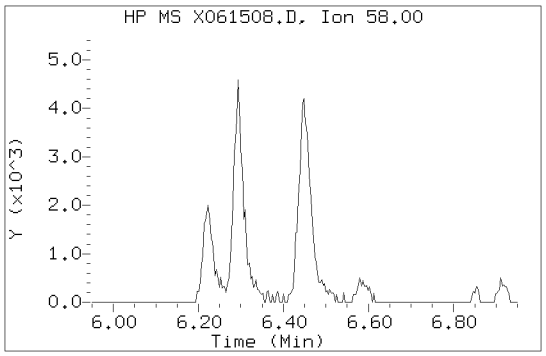

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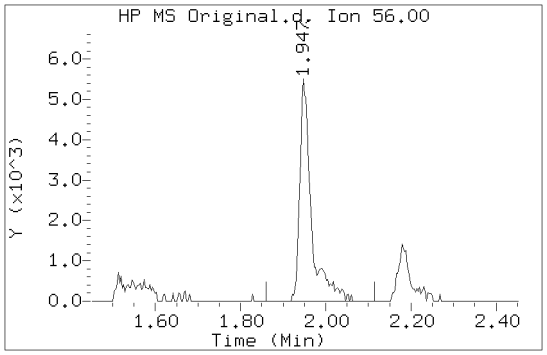

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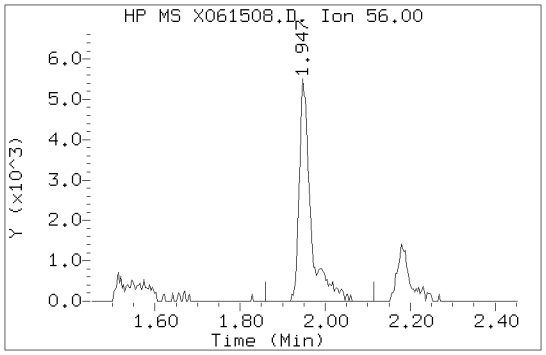

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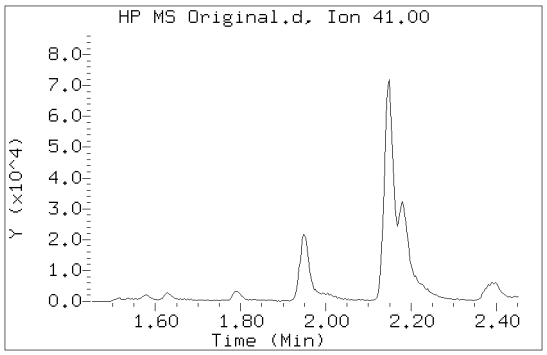

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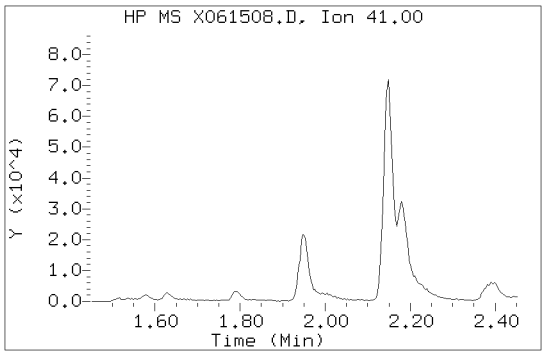

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LabSampID : VSTD050

Isobutylene (115-11-7)

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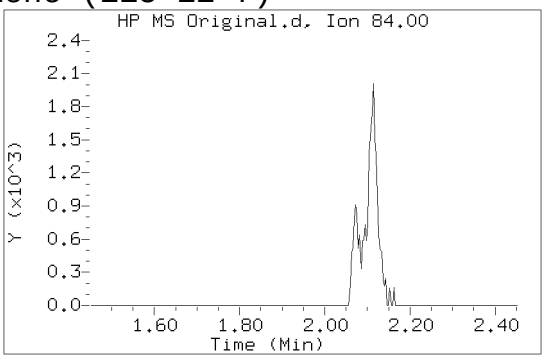

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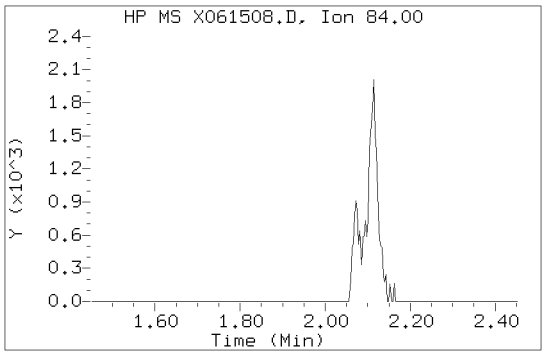

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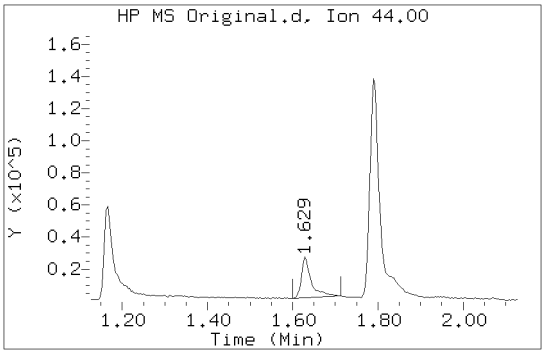

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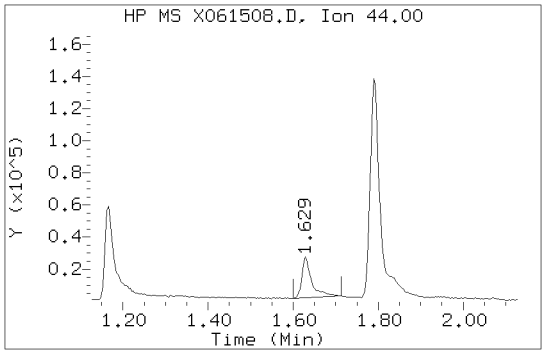

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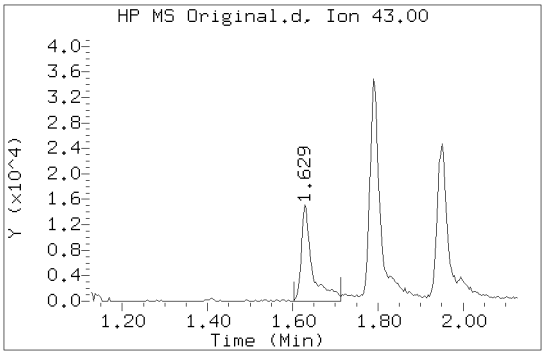

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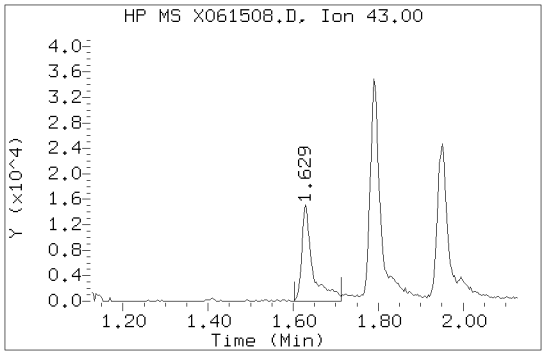

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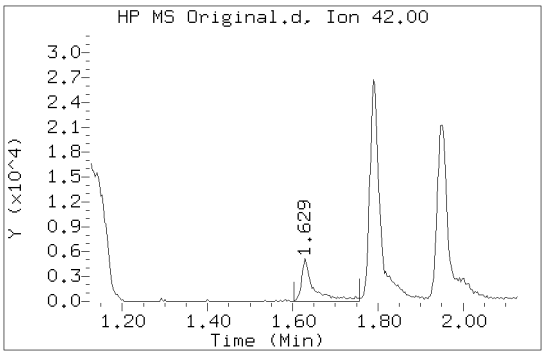

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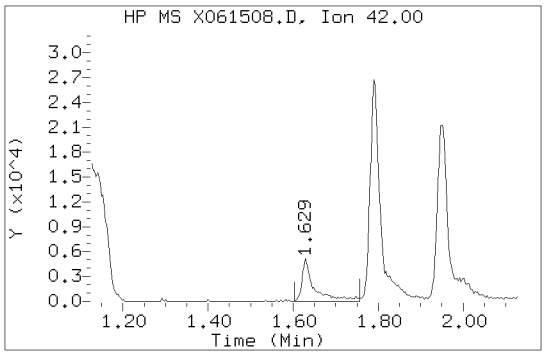

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Inj Date : 15-JUN-2024 16:18
InstruID : voa7.i
LabSampID : VSTD050

n-Butyl acetate (123-86-4)

Reason Code:

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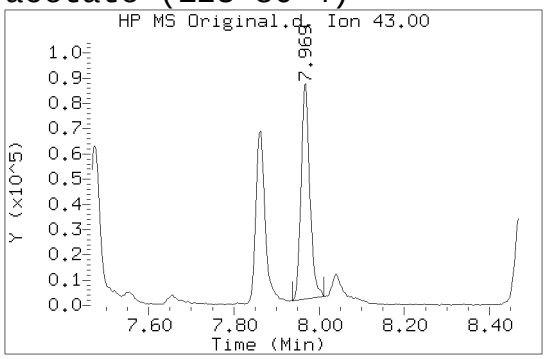

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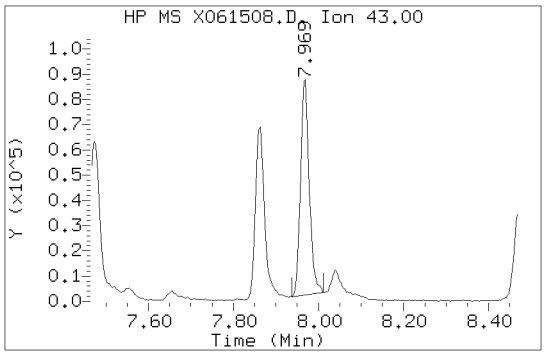

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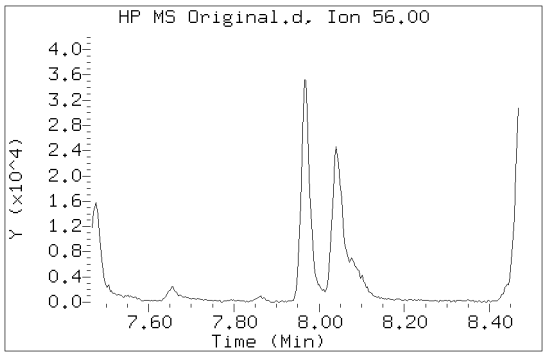

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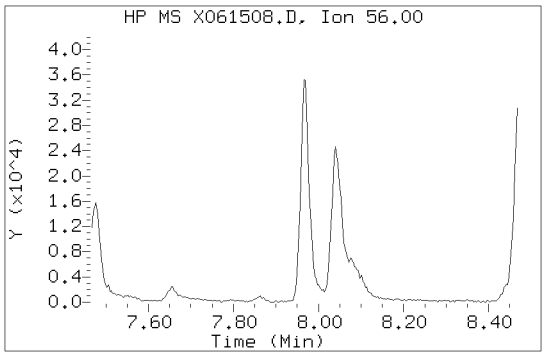

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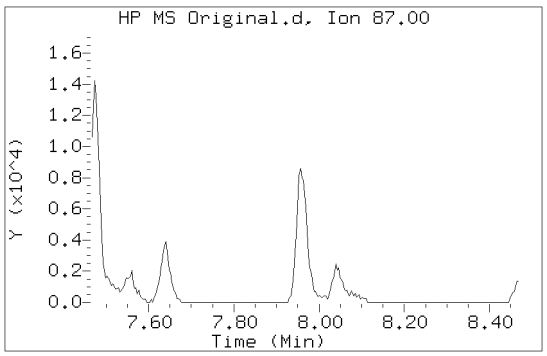

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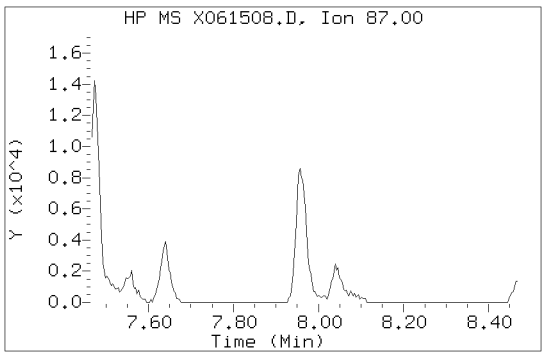

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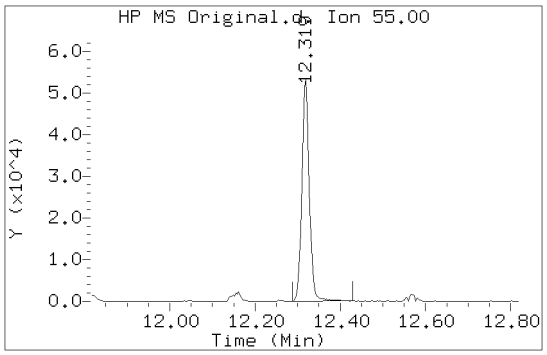

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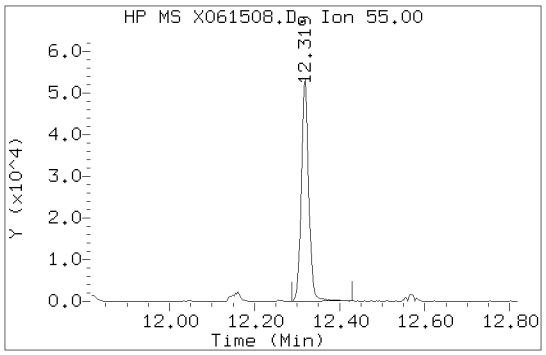

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LabSampID : VSTD050

2-Etyhlhexyl Acrylate (103-11-7)

Reason Code:

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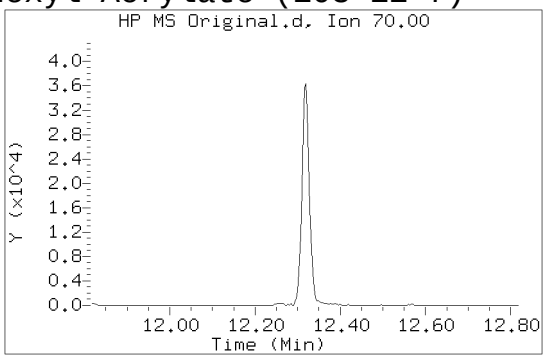

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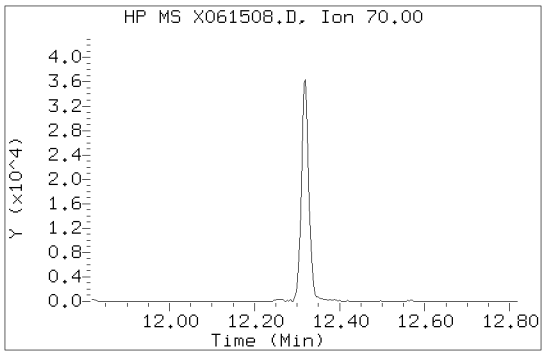

Tetrahydrothiophene (110-01-0)

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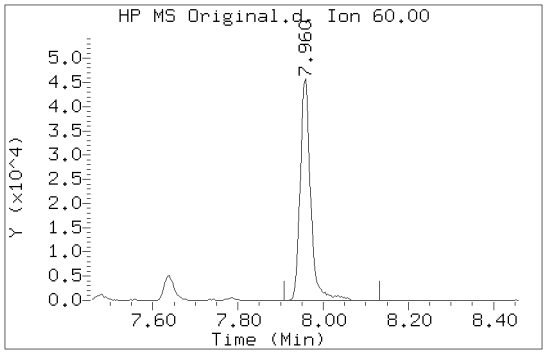

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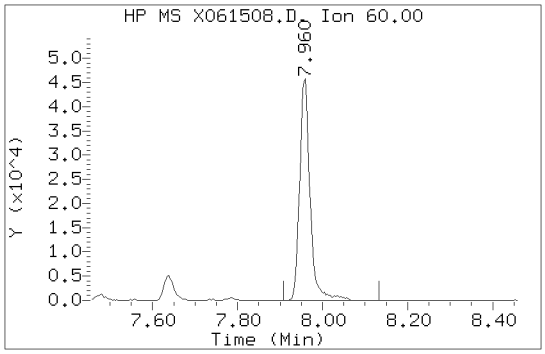

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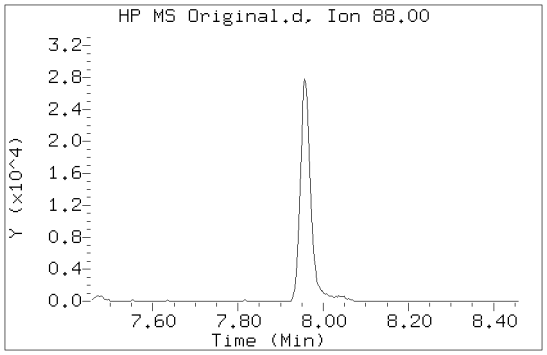

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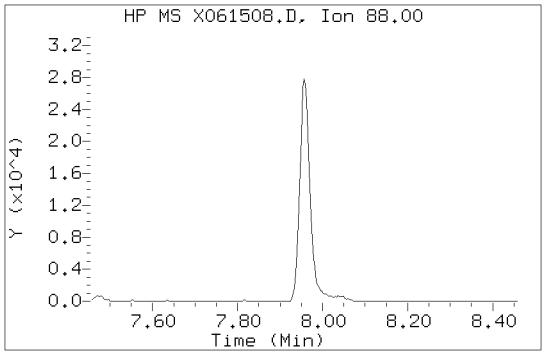

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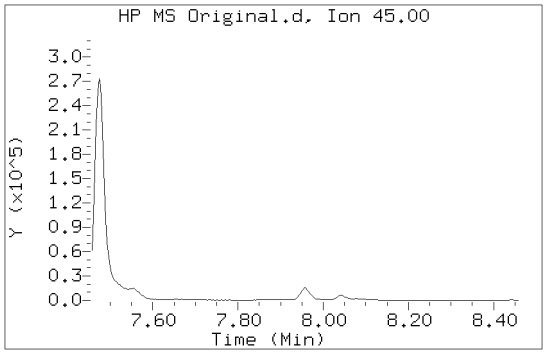

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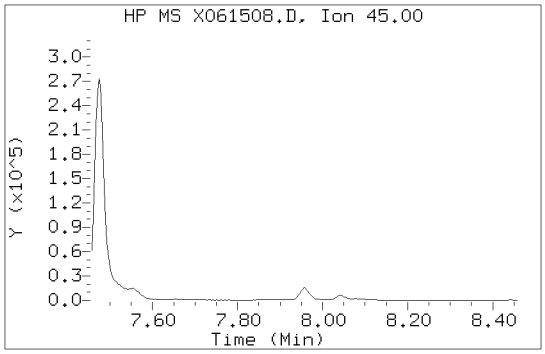

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InstruID : voa7.i
LabSampID : VSTD050

sec-Butyl Ether (6863-58-7)

Reason Code:

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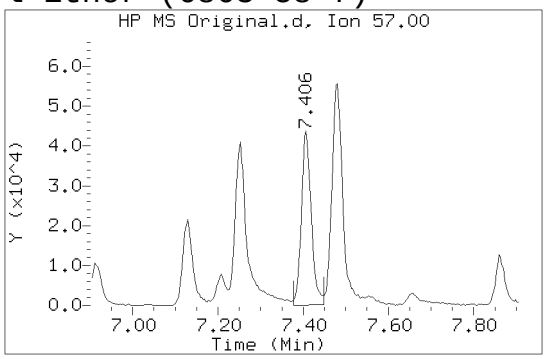

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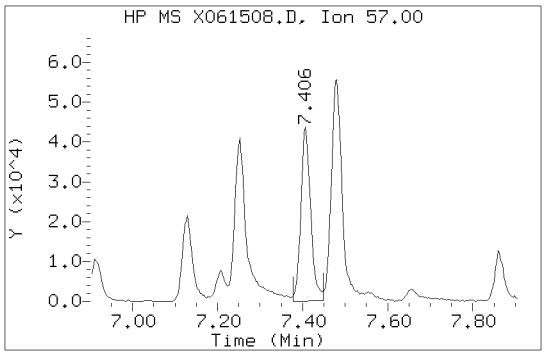

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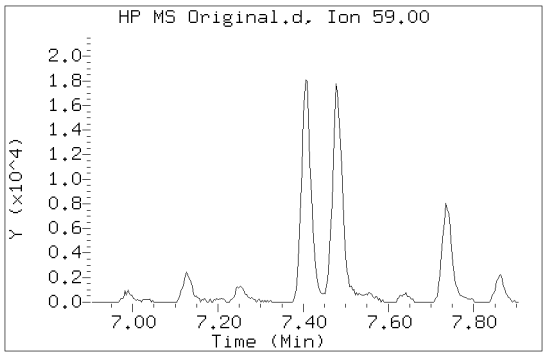

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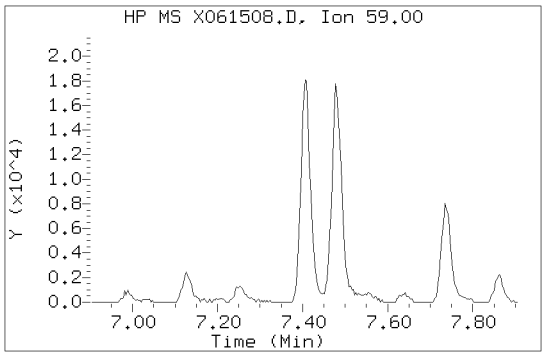

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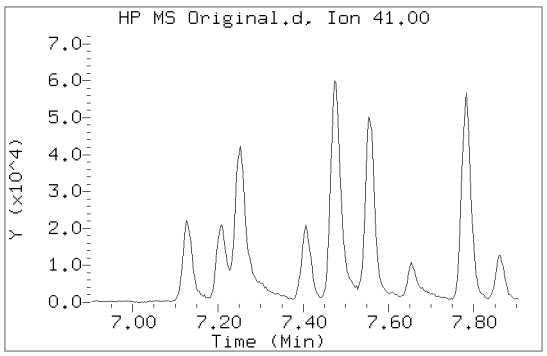

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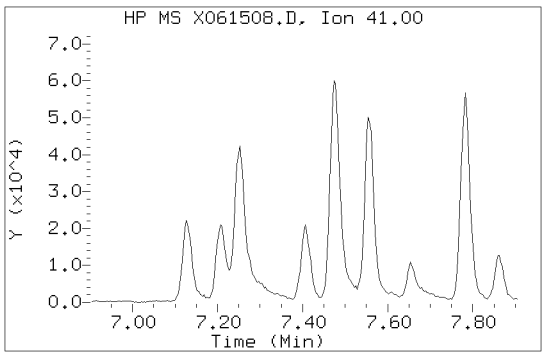

Isoprene (78-79-5)

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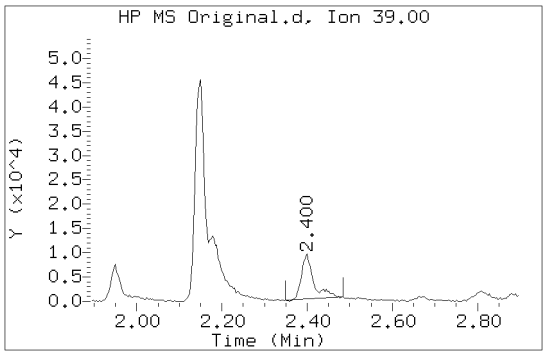

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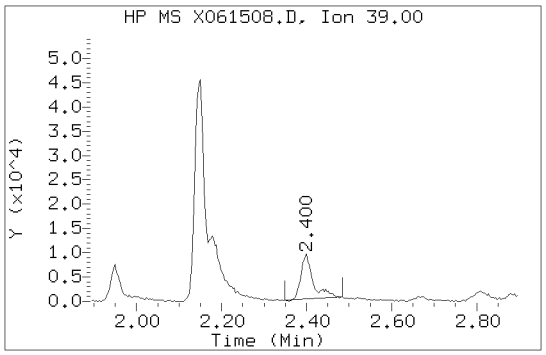

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Inj Date : 15-JUN-2024 16:18
InstruID : voa7.i
LabSampID : VSTD050

Isoprene (78-79-5)

Reason Code:

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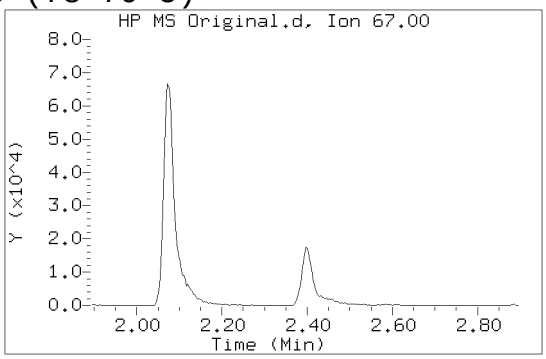

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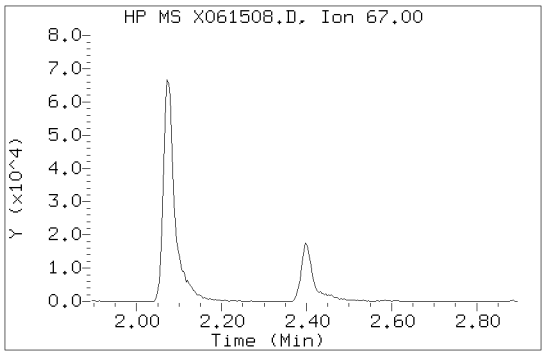

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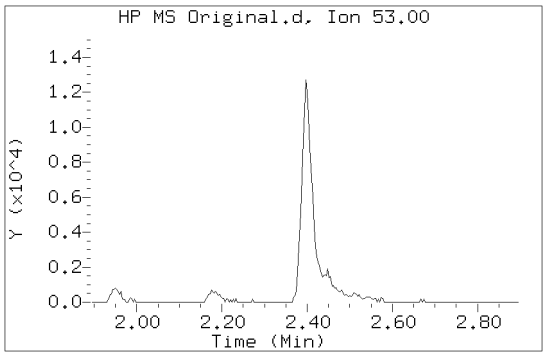

AFTER

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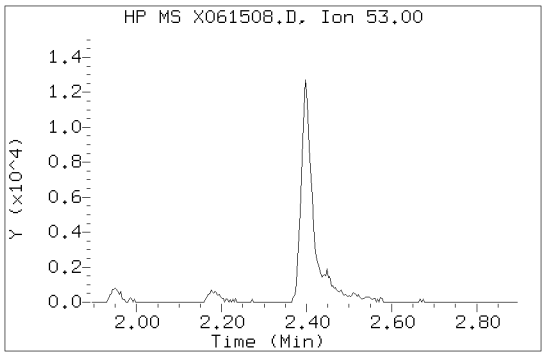

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061509.D Page 1
Report Date: 12-Jul-2024 11:46

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061509.D
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Inj Date : 15-JUN-2024 16:41
Operator : AP Inst ID: voa7.i
Smp Info : VSTD100;VSTD100;1;8
Misc Info : HS220328V7;WATER;0;1;
Comment   :
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Meth Date : 12-Jul-2024 11:46 voa7.i Quant Type: ISTD
Cal Date : 15-JUN-2024 16:41 Cal File: X061509.D
Als bottle: 9 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

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)	131611	50.0000	
2 Dichlorodifluoromethane	85	1.294	1.294	(0.252)	134254	100.000	96.54
159 Dichlorofluoromethane	67	2.075	2.075	(0.405)	260861	100.000	95.18
3 Chloromethane	50	1.448	1.448	(0.282)	196571	100.000	97.80
4 Propionitrile	54	4.670	4.670	(0.910)	178969	1000.00	1015.65
5 Vinyl Chloride	62	1.535	1.535	(0.299)	178644	100.000	96.31
6 Bromomethane	94	1.805	1.805	(0.352)	98215	100.000	99.36
7 Chloroethane	64	1.895	1.895	(0.369)	108971	100.000	96.98
8 Trichlorofluoromethane	101	2.114	2.114	(0.412)	232452	100.000	97.05
9 Acrolein	56	2.512	2.512	(0.490)	8475	200.000	228.55
10 Acetone	43	2.663	2.663	(0.519)	87964	200.000	197.53
11 1,1-Dichloroethene	96	2.593	2.593	(0.505)	130927	100.000	96.53
12 Isobutyl Alcohol	43	5.573	5.573	(1.086)	430883	2000.00	1987.35
13 Acetonitrile	39	2.959	2.959	(0.577)	201548	1000.00	994.85
14 Allyl Chloride	41	2.959	2.959	(0.577)	421791	100.000	100.64
15 Iodomethane	142	2.741	2.741	(0.534)	331334	200.000	188.98
16 Acrylonitrile	53	3.377	3.377	(0.658)	92283	200.000	200.41
17 Methylene Chloride	84	3.094	3.094	(0.603)	150347	100.000	98.38
18 Methyl tert-butyl ether	73	3.377	3.377	(0.658)	369312	100.000	98.47
19 Carbon Disulfide	76	2.795	2.795	(0.545)	802720	200.000	193.67

20 trans-1,2-Dichloroethene	96	3.377	3.377 (0.658)	136803	100.000	97.50
21 Vinyl Acetate	43	4.657	4.657 (0.908)	142907	200.000	195.18

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061509.D Page 2
Report Date: 12-Jul-2024 11:46

	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)	281778	100.000	91.07
	23 Chloroprene	53	3.966	3.966	(0.773)	237619	100.000	96.71
	24 2-Butanone	43	4.586	4.586	(0.894)	120765	200.000	197.63
	25 Methacrylonitrile	41	2.149	2.149	(0.419)	251731	100.000	114.76
	26 2,2-Dichloropropane	77	4.535	4.535	(0.884)	246113	100.000	93.70
	27 cis-1,2-Dichloroethene	96	4.544	4.544	(0.886)	153510	100.000	98.20
	28 Chloroform	83	4.901	4.901	(0.956)	275001	100.000	98.91
	29 Bromochloromethane	128	4.808	4.808	(0.937)	74665	100.000	98.00
$	30 Dibromofluoromethane	113	5.072	5.072	(0.989)	136360	100.000	98.62
	31 1,1,1-Trichloroethane	97	5.072	5.072	(0.989)	240720	100.000	97.46
	32 1,1-Dichloropropene	75	5.245	5.245	(0.896)	204839	100.000	94.80
	33 1,2-Dichloroethane	62	5.490	5.490	(0.938)	232210	100.000	97.82
	34 Carbon Tetrachloride	117	5.236	5.236	(0.895)	207646	100.000	94.30
$	35 1,2-Dichloroethane-d4	65	5.416	5.416	(1.056)	181002	100.000	98.58
*	36 1,4-Difluorobenzene	114	5.853	5.853	(1.000)	220034	50.0000	
	37 Benzene	78	5.457	5.457	(0.932)	566674	100.000	97.04
	38 Trichloroethene	130	6.088	6.088	(1.040)	144899	100.000	95.74
	39 Bromodichloromethane	83	6.570	6.570	(1.122)	216386	100.000	88.33
	40 Methyl Methacrylate	41	6.432	6.432	(1.254)	141838	100.000	102.49
	41 2-Chloroethylvinyl ether	63	6.856	6.856	(1.171)	122206	200.000	197.19(A)
	42 1,2-Dichloropropane	63	6.310	6.310	(1.078)	162499	100.000	96.65
	43 2-Nitropropane	43	6.798	6.798	(1.325)	45563	100.000	96.21
	44 Dibromomethane	93	6.419	6.419	(1.097)	93384	100.000	96.89
	45 4-Methyl-2-Pentanone	43	7.126	7.126	(0.842)	294844	200.000	193.24
	46 cis-1,3-Dichloropropene	75	6.978	6.978	(1.192)	231041	100.000	95.38
*	47 Chlorobenzene-d5	117	8.467	8.467	(1.000)	205716	50.0000	
$	48 Toluene-d8	98	7.207	7.207	(0.851)	478121	100.000	97.29
	49 Ethyl Methacrylate	69	8.039	8.039	(1.374)	206010	100.000	100.81
	50 Toluene	91	7.265	7.265	(0.858)	584385	100.000	96.86
	51 trans-1,3-Dichloropropene	75	6.978	6.978	(1.192)	231041	100.000	95.38
	52 2-Hexanone	43	7.863	7.863	(0.929)	205316	200.000	200.04
	53 1,1,2-Trichloroethane	83	7.641	7.641	(0.902)	111437	100.000	98.40
	54 1,3-Dichloropropane	76	7.782	7.782	(0.919)	237393	100.000	97.48
	55 Dibromochloromethane	129	7.975	7.975	(0.942)	155630	100.000	92.36
	56 Tetrachloroethene	164	7.737	7.737	(0.914)	110367	100.000	94.75
	57 1,2-Dibromoethane	107	8.075	8.075	(0.954)	116739	100.000	97.17
	58 1-Chlorohexane	55	8.470	8.470	(1.447)	141700	100.000	95.23
	59 Chlorobenzene	112	8.493	8.493	(1.003)	383778	100.000	97.17
	60 1,1,1,2-Tetrachloroethane	131	8.563	8.563	(1.011)	135220	100.000	94.33
	61 Ethylbenzene	106	8.583	8.583	(1.014)	195525	100.000	95.61
	62 m,p-Xylenes	106	8.686	8.686	(1.026)	496095	200.000	193.85
	63 o-Xylene	106	9.023	9.023	(1.066)	238580	100.000	96.75
	64 Styrene	104	9.039	9.039	(1.068)	421929	100.000	96.69
	66 Bromoform	173	9.207	9.207	(1.087)	98086	100.000	92.32
	67 Isopropylbenzene	105	9.338	9.338	(1.103)	614244	100.000	95.68
	68 1,1,2,2-Tetrachloroethane	83	9.608	9.608	(0.919)	173120	100.000	95.19
$	69 4-Bromofluorobenzene	95	9.477	9.477	(1.119)	190458	100.000	97.78
*	70 1,4-Dichlorobenzene-d4	152	10.457	10.457	(1.000)	109611	50.0000	
	71 1,2,3-Trichloropropane	75	9.650	9.650	(0.923)	194918	100.000	94.26
	72 trans-1,4-Dichloro-2-butene	53	9.660	9.660	(1.141)	42273	100.000	94.15
	73 n-Propylbenzene	91	9.692	9.692	(0.927)	759621	100.000	92.84
	74 Bromobenzene	156	9.605	9.605	(0.919)	165119	100.000	92.96

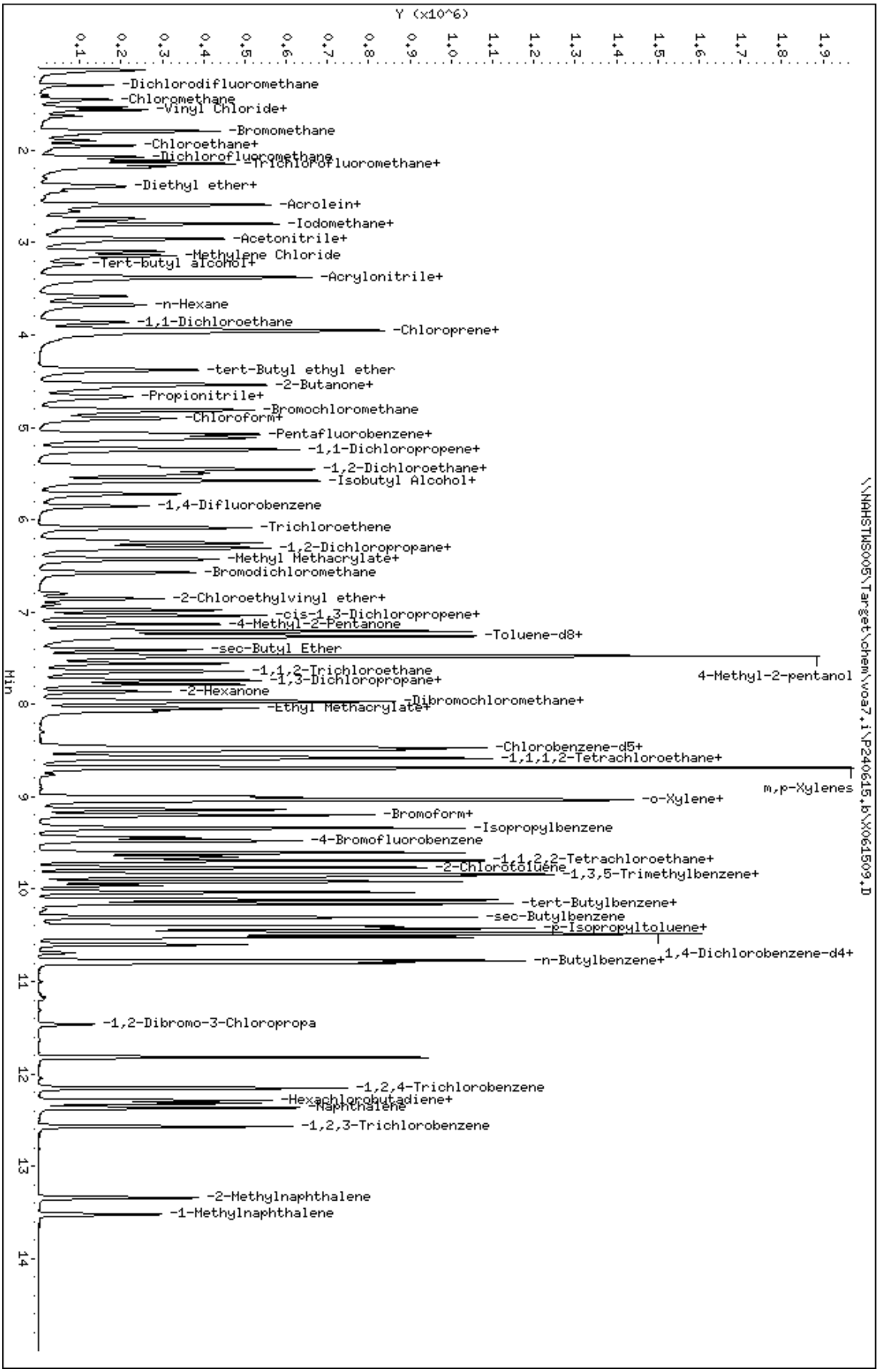
75	1,3,5-Trimethylbenzene	105	9.840	9.840 (0.941)	543342	100.000	92.11
76	2-Chlorotoluene	91	9.766	9.766 (0.934)	465237	100.000	94.08

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061509.D Page 3
Report Date: 12-Jul-2024 11:46

	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)	546420	100.000	93.18
78	tert-Butylbenzene	119	10.116	10.116	(0.967)	452739	100.000	94.12
79	1,2,4-Trimethylbenzene	105	10.158	10.158	(0.971)	540224	100.000	93.02
81	sec-Butylbenzene	105	10.303	10.303	(0.985)	620159	100.000	92.66
82	p-Isopropyltoluene	119	10.428	10.428	(0.997)	560605	100.000	92.98
83	1,3-Dichlorobenzene	146	10.403	10.403	(0.995)	306521	100.000	93.62
84	1,4-Dichlorobenzene	146	10.480	10.480	(1.002)	313580	100.000	94.23
87	n-Butylbenzene	91	10.776	10.776	(1.030)	528102	100.000	93.78
88	1,2-Dichlorobenzene	146	10.798	10.798	(1.033)	298497	100.000	94.98
89	1,2-Dibromo-3-Chloropropane	75	11.464	11.464	(1.096)	30508	100.000	94.18
90	1,2,4-Trichlorobenzene	180	12.155	12.155	(1.162)	198441	100.000	94.70
91	Hexachlorobutadiene	225	12.287	12.287	(1.175)	94036	100.000	93.93
92	Naphthalene	128	12.370	12.370	(1.183)	427265	100.000	90.86
93	1,2,3-Trichlorobenzene	182	12.570	12.570	(1.202)	157123	100.000	91.80
135	1,4-Dioxane	88	6.445	6.445	(1.256)	21568	2000.00	2041.05(AM)
146	Methyl acetate	43	2.991	2.991	(0.583)	102095	100.000	97.01
138	Freon TF	101	2.589	2.589	(0.505)	128005	100.000	95.15
139	Diethyl ether	59	2.380	2.380	(0.464)	98676	100.000	102.84
140	1,3-Butadiene	54	1.564	1.564	(0.305)	81637	100.000	95.16
141	Cyclohexane	56	5.113	5.113	(0.997)	222012	100.000	95.50
147	Methylcyclohexane	83	6.252	6.252	(1.068)	215181	100.000	96.20
132	n-Butanol	56	6.248	6.248	(1.218)	87107	2000.00	2078.54(T)
131	Methyl Acrylate	55	4.689	4.689	(0.914)	144382	100.000	101.26
133	Ethyl Acrylate	55	6.223	6.223	(1.213)	370352	100.000	100.00
136	n-Hexane	57	3.676	3.676	(0.717)	156768	100.000	92.61
142	Tetrahydrofuran	42	4.859	4.859	(0.947)	45899	200.000	185.53
148	Tert-butyl alcohol	59	3.236	3.236	(0.631)	156003	2000.00	1606.17
149	Isopropyl alcohol	45	2.815	2.815	(0.549)	129745	2000.00	1980.18
151	4-Methyl-2-pentanol	45	7.477	7.477	(0.883)	1084199	2000.00	2016.33
166	1,2,3-Trimethylbenzene	105	10.518	10.518	(1.006)	490212	100.000	86.83
167	Ethanol	45	2.316	2.316	(0.452)	20203	2000.00	1996.61
172	tert-Butyl formate	59	3.236	3.236	(0.631)	156003	200.000	193.82
173	3,3-Dimethyl-1-butanol	57	8.039	8.039	(0.949)	282604	2000.00	2002.45
174	tert-Amyl methyl ether	73	5.580	5.580	(1.088)	398312	100.000	99.29
175	tert-Butyl ethyl ether	59	4.377	4.377	(0.853)	438475	100.000	97.70
157	2-Methylnaphthalene	142	13.338	13.338	(1.275)	183751	100.000	107.37
156	Diisopropyl ether	45	3.946	3.946	(0.769)	510091	100.000	97.60
171	1-Methylnaphthalene	142	13.521	13.521	(1.293)	145120	100.000	95.91
130	Ethyl Acetate	43	3.946	3.946	(0.769)	897857	100.000	97.80
176	tert-Amyl alcohol	59	5.515	5.515	(1.075)	151183	2000.00	1966.71(A)
160	Epichlorohydrin	57	6.914	6.914	(1.181)	37467	400.000	391.27
161	Butyl acrylate	55	8.998	8.998	(1.063)	352204	100.000	100.56(A)
182	Isobutylene	56	1.950	1.950	(0.380)	22250	100.000	100.76(AM)
183	Isopropyl Acetate	43	5.573	5.573	(0.952)	430883	100.000	98.11(A)
184	n-Amyl acetate	43	9.194	9.194	(1.086)	329197	100.000	96.94(A)
185	Acetaldehyde	44	1.628	1.628	(0.317)	82329	400.000	391.89(AM)
186	n-Butyl acetate	43	7.969	7.969	(0.941)	239739	100.000	99.15(AM)
187	2-Etyhlhexyl Acrylate	55	12.319	12.319	(1.178)	157065	100.000	100.85(AM)
188	Tetrahydrothiophene	60	7.959	7.959	(0.940)	161935	100.000	99.79(AM)
189	sec-Butyl Ether	57	7.406	7.406	(0.875)	137710	100.000	102.92(AM)
190	Isoprene	39	2.397	2.397	(0.467)	39454	100.000	97.20(AM)
191	2-Chloropropene	41	2.149	2.149	(0.419)	251731	100.000	111.18(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;VSTD100;1;8
Purge Volume: 5.0
Column phase: DB624

Instrument: voa7,i
Operator: AP
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061509.D
Inj Date : 15-JUN-2024 16:41
InstruID : voa7.i
LabSampID : VSTD100

1,4-Dioxane ()

Reason Code:

BEFORE

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HEIGHT
10419
12-Jul-2024
11:46
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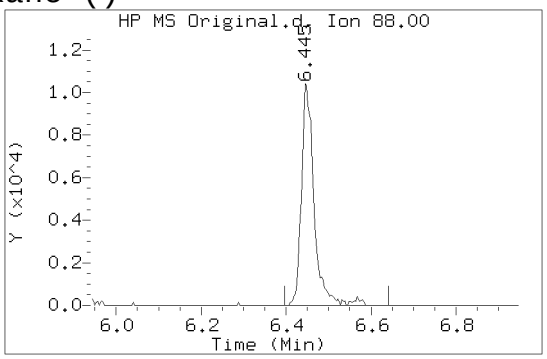
zaid



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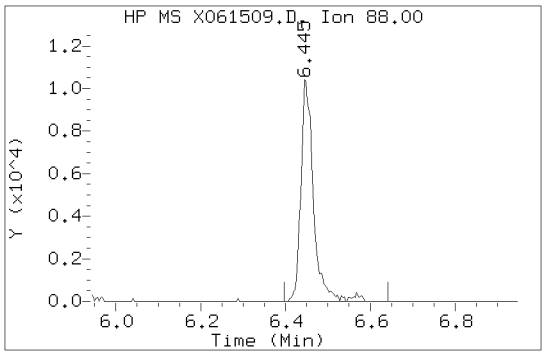

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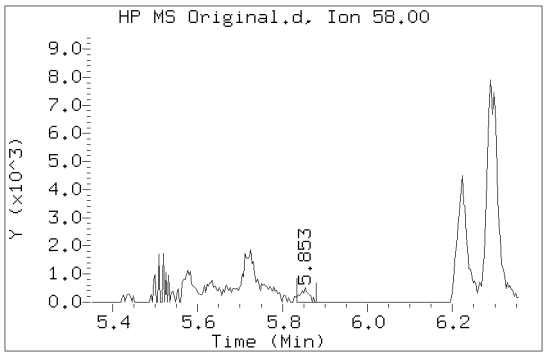

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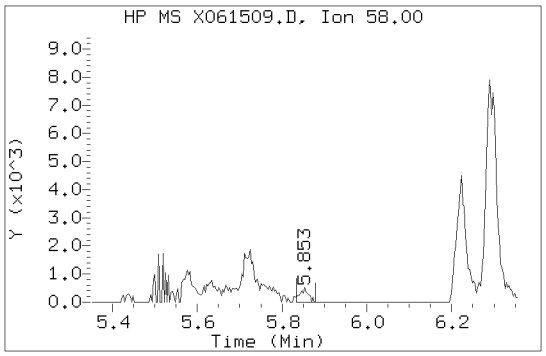

Isobutylene (115-11-7)

Reason Code:

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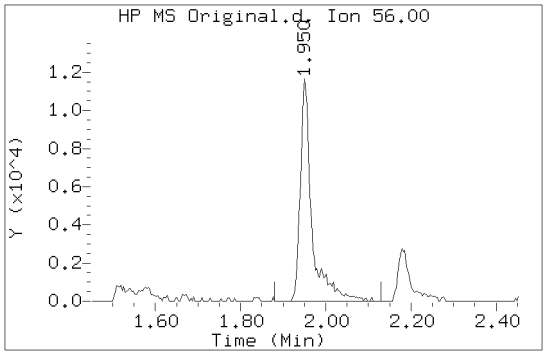

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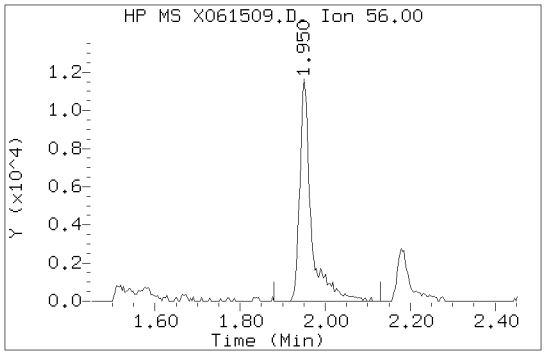

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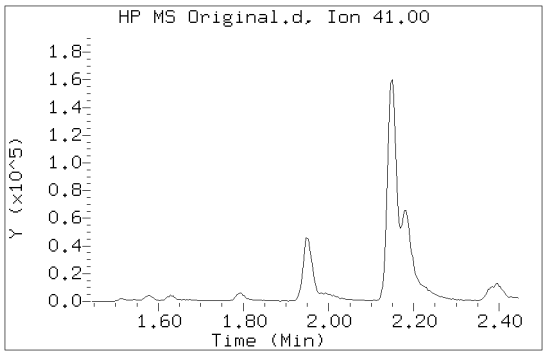

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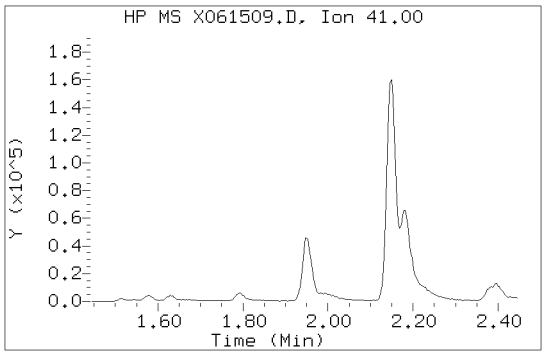

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InstruID : voa7.i
LabSampID : VSTD100

Isobutylene (115-11-7)

Reason Code:

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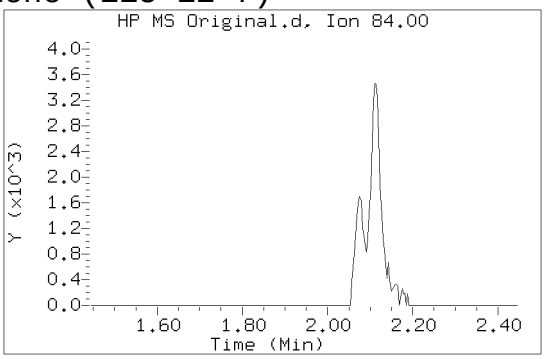

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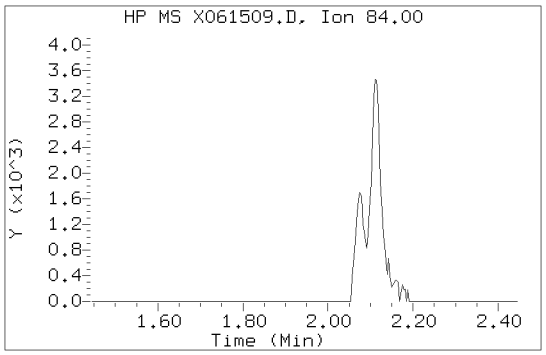

Acetaldehyde (75-07-0)

Reason Code:

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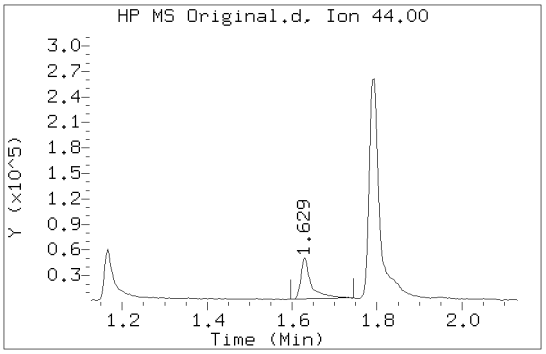

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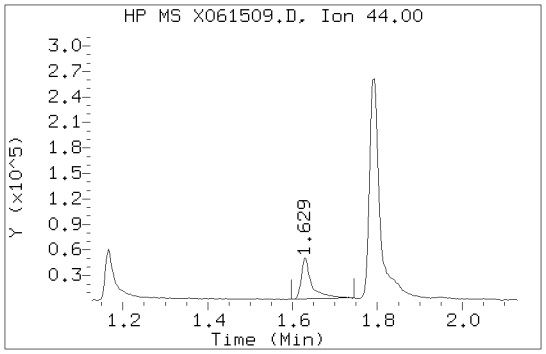

BEFORE

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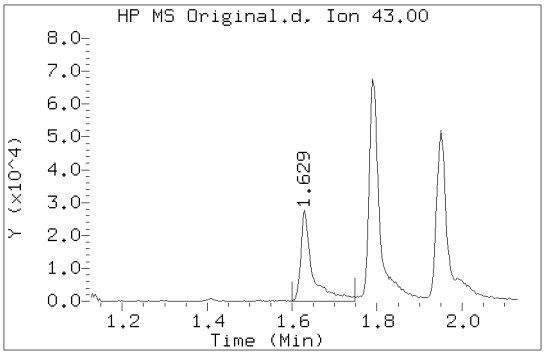

AFTER

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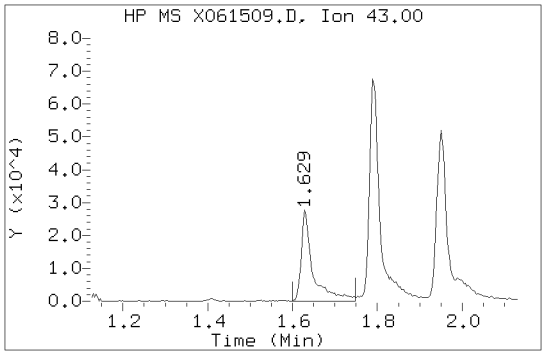

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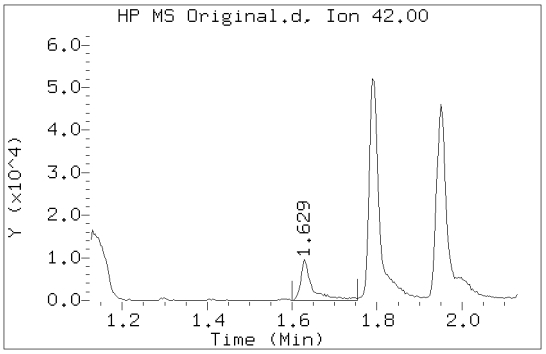

AFTER

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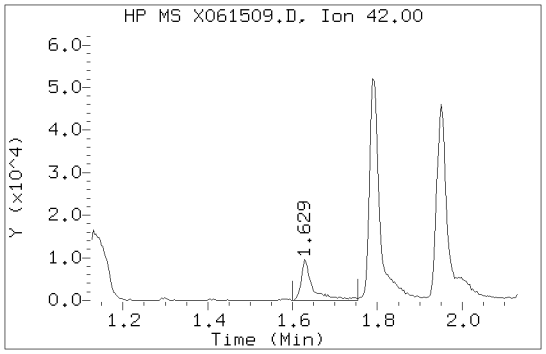

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Inj Date : 15-JUN-2024 16:41
InstruID : voa7.i
LabSampID : VSTD100

n-Butyl acetate (123-86-4)

Reason Code:

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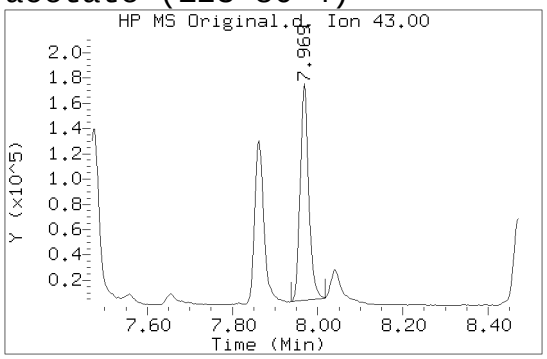

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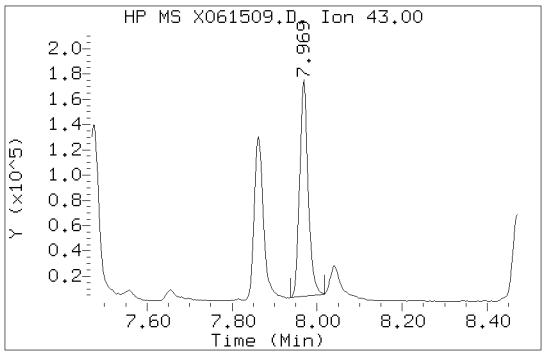

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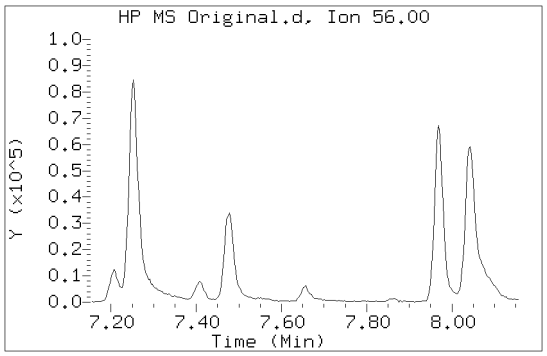

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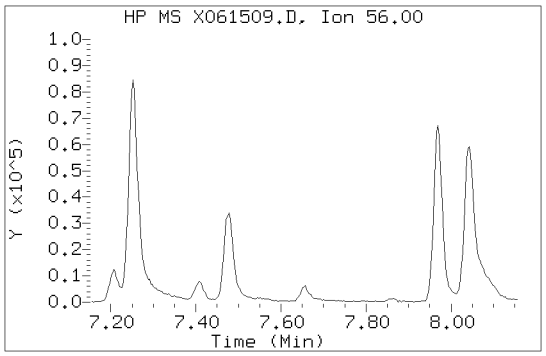

BEFORE

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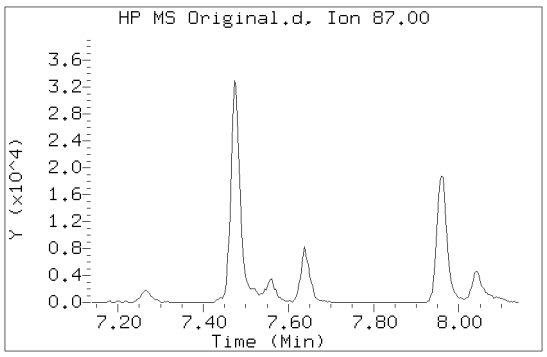

AFTER

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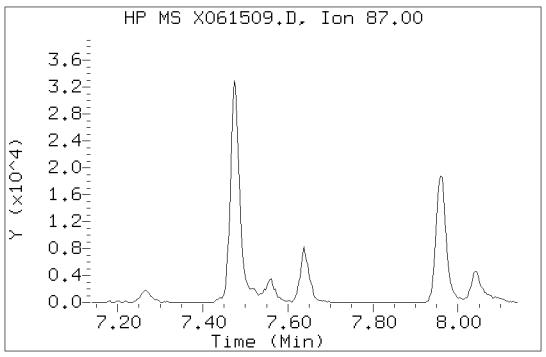

2-Etyhlhexyl Acrylate (103-11-7)

Reason Code:

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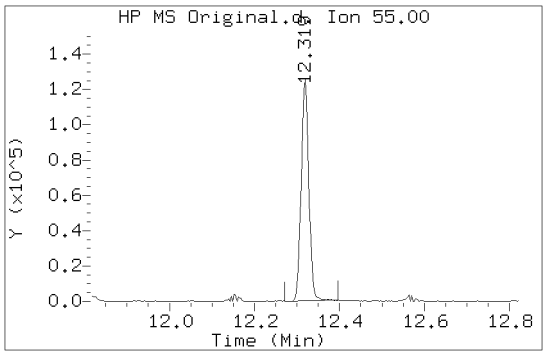

AFTER

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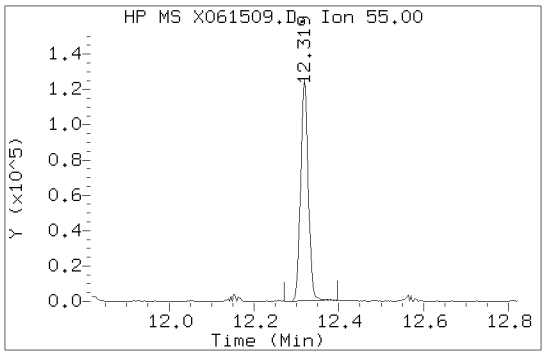

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Inj Date : 15-JUN-2024 16:41
InstruID : voa7.i
LabSampID : VSTD100

2-Etyhlhexyl Acrylate (103-11-7)

Reason Code:

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12-Jul-2024
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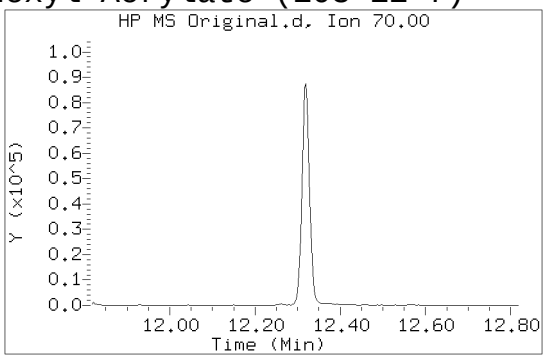

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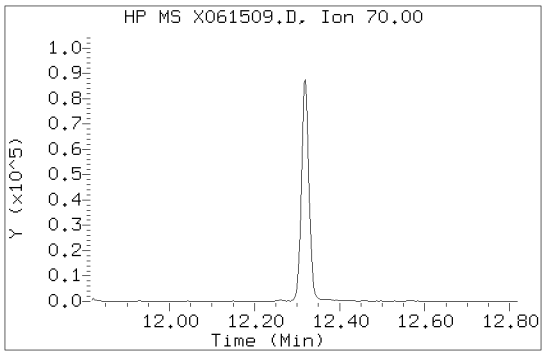

Tetrahydrothiophene (110-01-0)

Reason Code:

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12-Jul-2024
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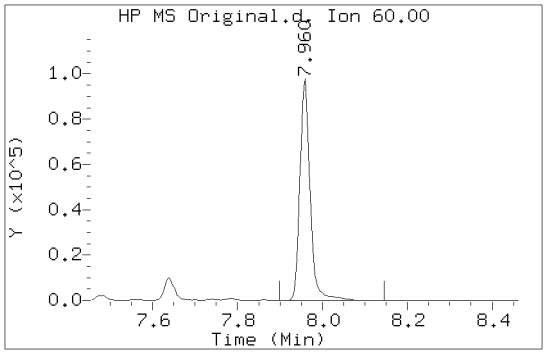

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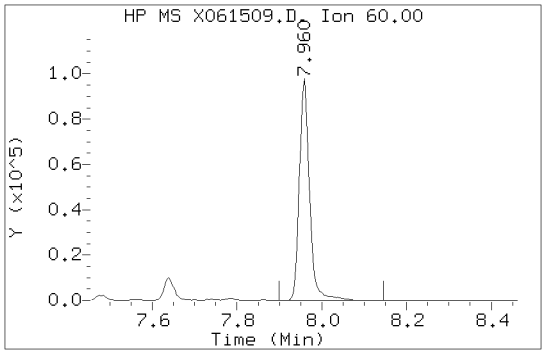

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12-Jul-2024
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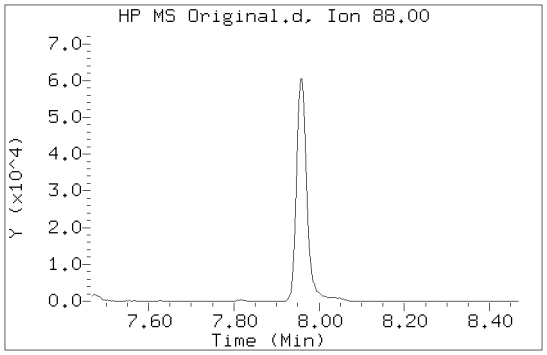

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12-Jul-2024
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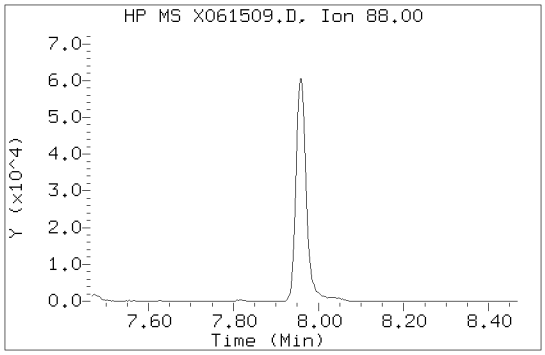

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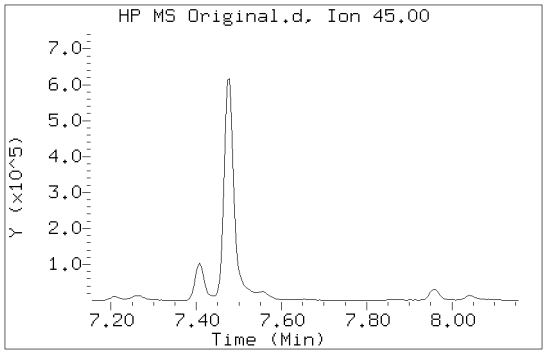

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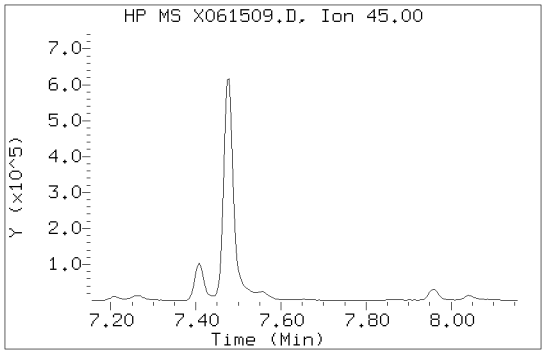

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LabSampID : VSTD100

sec-Butyl Ether (6863-58-7)

Reason Code:

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12-Jul-2024
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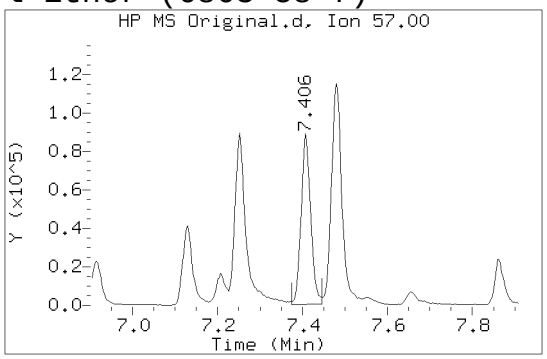

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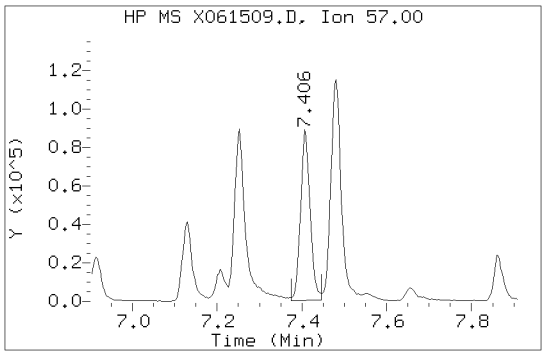

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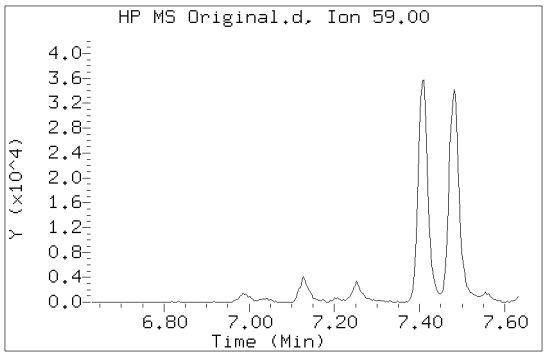

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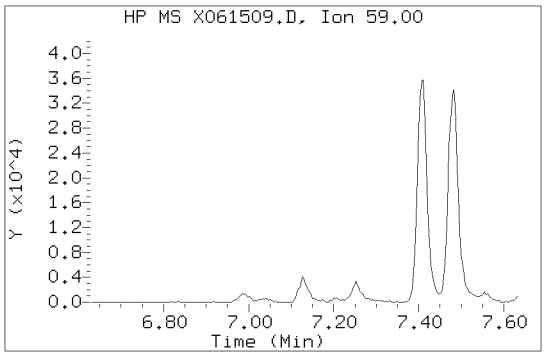

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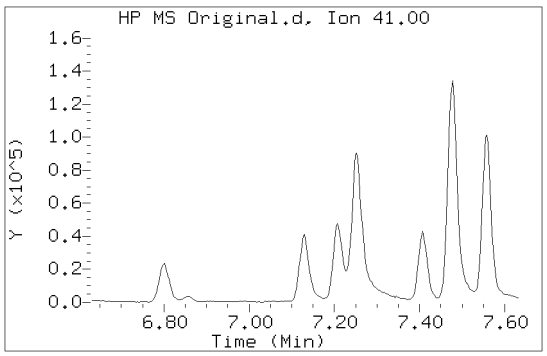

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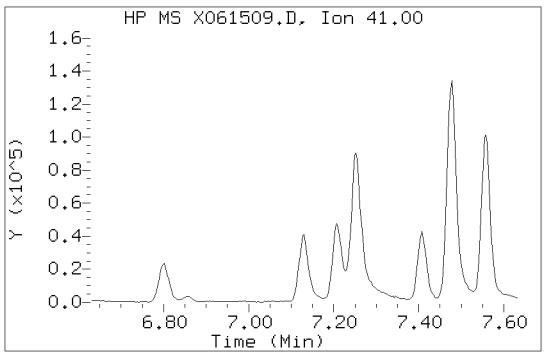

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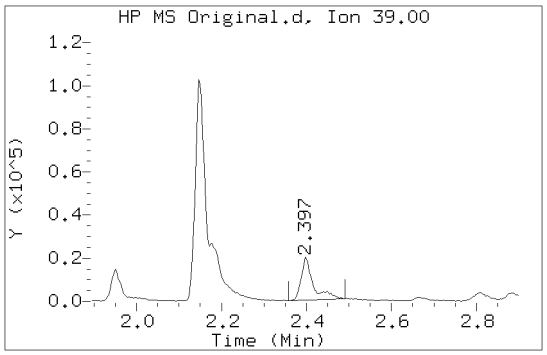

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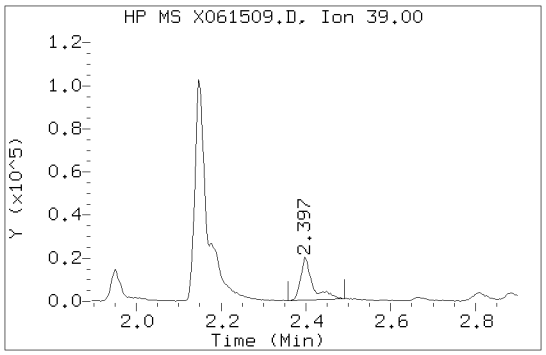

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Isoprene (78-79-5)

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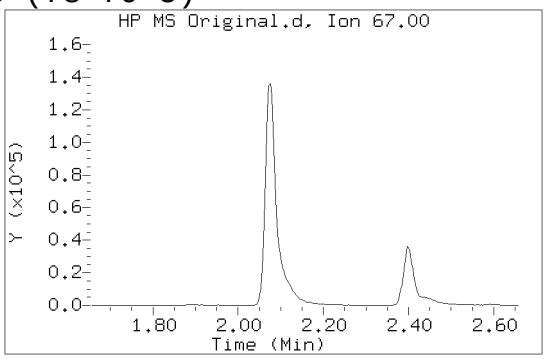

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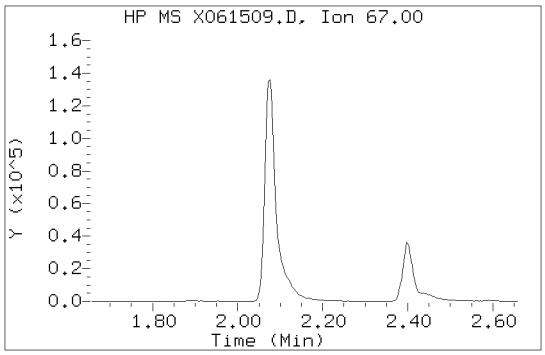

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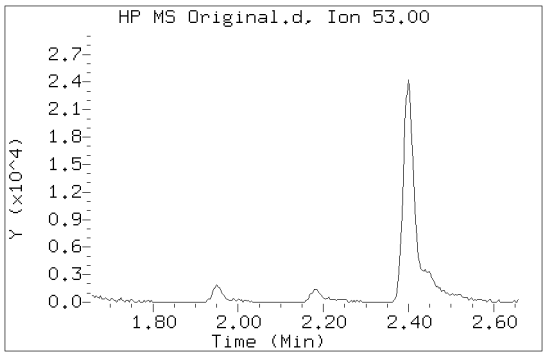

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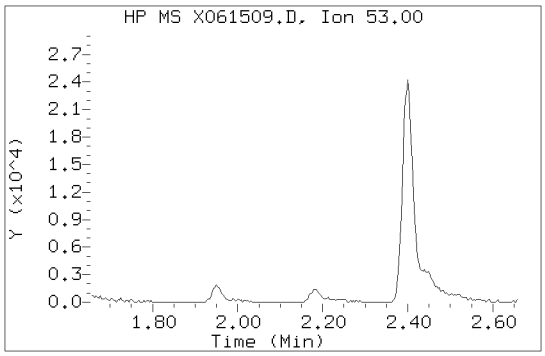

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061510.D Page 1
Report Date: 12-Jul-2024 11:38

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061510.D
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Inj Date : 15-JUN-2024 17:04
Operator : AP Inst ID: voa7.i
Smp Info : VSTD200;VSTD200;1;9
Misc Info : HS220328V7;WATER;0;1;
Comment   :
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Meth Date : 12-Jul-2024 11:38 voa7.i Quant Type: ISTD
Cal Date : 15-JUN-2024 16:41 Cal File: X061509.D
Als bottle: 10 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

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)	137497	50.0000	
2	Dichlorodifluoromethane	85	1.294	1.294	(0.252)	292167	200.000	201.48(A)
159	Dichlorofluoromethane	67	2.072	2.072	(0.404)	535069	200.000	186.87(A)
3	Chloromethane	50	1.448	1.448	(0.282)	419418	200.000	200.76(A)
4	Propionitrile	54	4.673	4.673	(0.911)	364385	2000.00	1988.69
5	Vinyl Chloride	62	1.535	1.535	(0.299)	390540	200.000	201.69(A)
6	Bromomethane	94	1.802	1.802	(0.351)	205045	200.000	199.94
7	Chloroethane	64	1.892	1.892	(0.369)	235748	200.000	201.27(A)
8	Trichlorofluoromethane	101	2.110	2.110	(0.411)	502365	200.000	201.15(A)
9	Acrolein	56	2.519	2.519	(0.491)	13679	400.000	353.09
10	Acetone	43	2.667	2.667	(0.520)	183152	400.000	399.61
11	1,1-Dichloroethene	96	2.590	2.590	(0.505)	285852	200.000	201.57(A)
12	Isobutyl Alcohol	43	5.573	5.573	(1.086)	902069	4000.00	4001.19(A)
13	Acetonitrile	39	2.959	2.959	(0.577)	422464	2000.00	2002.40(A)
14	Allyl Chloride	41	2.959	2.959	(0.577)	869165	200.000	199.44
15	Iodomethane	142	2.741	2.741	(0.534)	752080	400.000	406.08(A)
16	Acrylonitrile	53	3.377	3.377	(0.658)	191487	400.000	398.96
17	Methylene Chloride	84	3.094	3.094	(0.603)	316697	200.000	200.21
18	Methyl tert-butyl ether	73	3.377	3.377	(0.658)	789645	200.000	201.24(A)
19	Carbon Disulfide	76	2.795	2.795	(0.545)	1741724	400.000	402.86(A)

20 trans-1,2-Dichloroethene	96	3.374	3.374 (0.658)	294156	200.000	200.95(A)
21 Vinyl Acetate	43	4.657	4.657 (0.908)	303449	400.000	400.20(A)

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061510.D Page 2
Report Date: 12-Jul-2024 11:38

	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)	602316	200.000	186.33
23	Chloroprene	53	3.962	3.962	(0.772)	517186	200.000	201.52(A)
24	2-Butanone	43	4.589	4.589	(0.895)	252867	400.000	400.41(A)
25	Methacrylonitrile	41	2.146	2.146	(0.418)	486972	200.000	212.50
26	2,2-Dichloropropane	77	4.532	4.532	(0.883)	528685	200.000	192.68
27	cis-1,2-Dichloroethene	96	4.544	4.544	(0.886)	326517	200.000	200.48(A)
28	Chloroform	83	4.905	4.905	(0.956)	578887	200.000	200.12(A)
29	Bromochloromethane	128	4.808	4.808	(0.937)	159282	200.000	200.54(A)
$ 30	Dibromofluoromethane	113	5.075	5.075	(0.989)	284861	200.000	200.21(A)
31	1,1,1-Trichloroethane	97	5.072	5.072	(0.989)	518715	200.000	201.03(A)
32	1,1-Dichloropropene	75	5.245	5.245	(0.896)	449030	200.000	202.37(A)
33	1,2-Dichloroethane	62	5.493	5.493	(0.938)	487787	200.000	200.69(A)
34	Carbon Tetrachloride	117	5.236	5.236	(0.895)	461014	200.000	202.95(A)
$ 35	1,2-Dichloroethane-d4	65	5.416	5.416	(1.056)	373277	200.000	200.21(A)
* 36	1,4-Difluorobenzene	114	5.853	5.853	(1.000)	225800	50.0000	
37	Benzene	78	5.458	5.458	(0.932)	1202917	200.000	201.26(A)
38	Trichloroethene	130	6.088	6.088	(1.040)	313152	200.000	201.78(A)
39	Bromodichloromethane	83	6.570	6.570	(1.122)	463216	200.000	184.26
40	Methyl Methacrylate	41	6.432	6.432	(1.254)	284906	200.000	198.70
41	2-Chloroethylvinyl ether	63	6.856	6.856	(1.171)	285285	400.000	400.34(A)
42	1,2-Dichloropropane	63	6.310	6.310	(1.078)	346536	200.000	201.31(A)
43	2-Nitropropane	43	6.802	6.802	(1.326)	100260	200.000	202.28(A)
44	Dibromomethane	93	6.419	6.419	(1.097)	199194	200.000	201.44(A)
45	4-Methyl-2-Pentanone	43	7.130	7.130	(0.842)	630364	400.000	401.91(A)
46	cis-1,3-Dichloropropene	75	6.978	6.978	(1.192)	504454	200.000	202.46(A)
* 47	Chlorobenzene-d5	117	8.467	8.467	(1.000)	212511	50.0000	
$ 48	Toluene-d8	98	7.207	7.207	(0.851)	1013765	200.000	200.38(A)
49	Ethyl Methacrylate	69	8.043	8.043	(1.374)	479491	200.000	199.88
50	Toluene	91	7.265	7.265	(0.858)	1248377	200.000	200.98(A)
51	trans-1,3-Dichloropropene	75	6.978	6.978	(1.192)	504454	200.000	202.46(A)
52	2-Hexanone	43	7.863	7.863	(0.929)	418635	400.000	397.74
53	1,1,2-Trichloroethane	83	7.638	7.638	(0.902)	232912	200.000	199.97
54	1,3-Dichloropropane	76	7.782	7.782	(0.919)	502687	200.000	200.62(A)
55	Dibromochloromethane	129	7.975	7.975	(0.942)	335061	200.000	192.49
56	Tetrachloroethene	164	7.740	7.740	(0.914)	242940	200.000	202.00(A)
57	1,2-Dibromoethane	107	8.075	8.075	(0.954)	248060	200.000	200.85(A)
58	1-Chlorohexane	55	8.470	8.470	(1.447)	303981	200.000	201.65(A)
59	Chlorobenzene	112	8.493	8.493	(1.003)	816634	200.000	200.87(A)
60	1,1,1,2-Tetrachloroethane	131	8.567	8.567	(1.012)	300759	200.000	202.57(A)
61	Ethylbenzene	106	8.586	8.586	(1.014)	424071	200.000	201.33(A)
62	m,p-Xylenes	106	8.686	8.686	(1.026)	1059701	400.000	402.03(A)
63	o-Xylene	106	9.027	9.027	(1.066)	509699	200.000	200.89(A)
64	Styrene	104	9.039	9.039	(1.068)	903128	200.000	201.00(A)
66	Bromoform	173	9.207	9.207	(1.087)	217025	200.000	197.73
67	Isopropylbenzene	105	9.342	9.342	(1.103)	1334335	200.000	201.56(A)
68	1,1,2,2-Tetrachloroethane	83	9.612	9.612	(0.919)	364431	200.000	201.52(A)
$ 69	4-Bromofluorobenzene	95	9.477	9.477	(1.119)	396379	200.000	200.31(A)
* 70	1,4-Dichlorobenzene-d4	152	10.461	10.461	(1.000)	109462	50.0000	
71	1,2,3-Trichloropropane	75	9.650	9.650	(0.923)	415838	200.000	202.05(A)
72	trans-1,4-Dichloro-2-butene	53	9.660	9.660	(1.141)	93967	200.000	202.39(A)
73	n-Propylbenzene	91	9.692	9.692	(0.927)	1657867	200.000	202.88(A)
74	Bromobenzene	156	9.605	9.605	(0.918)	359110	200.000	202.70(A)

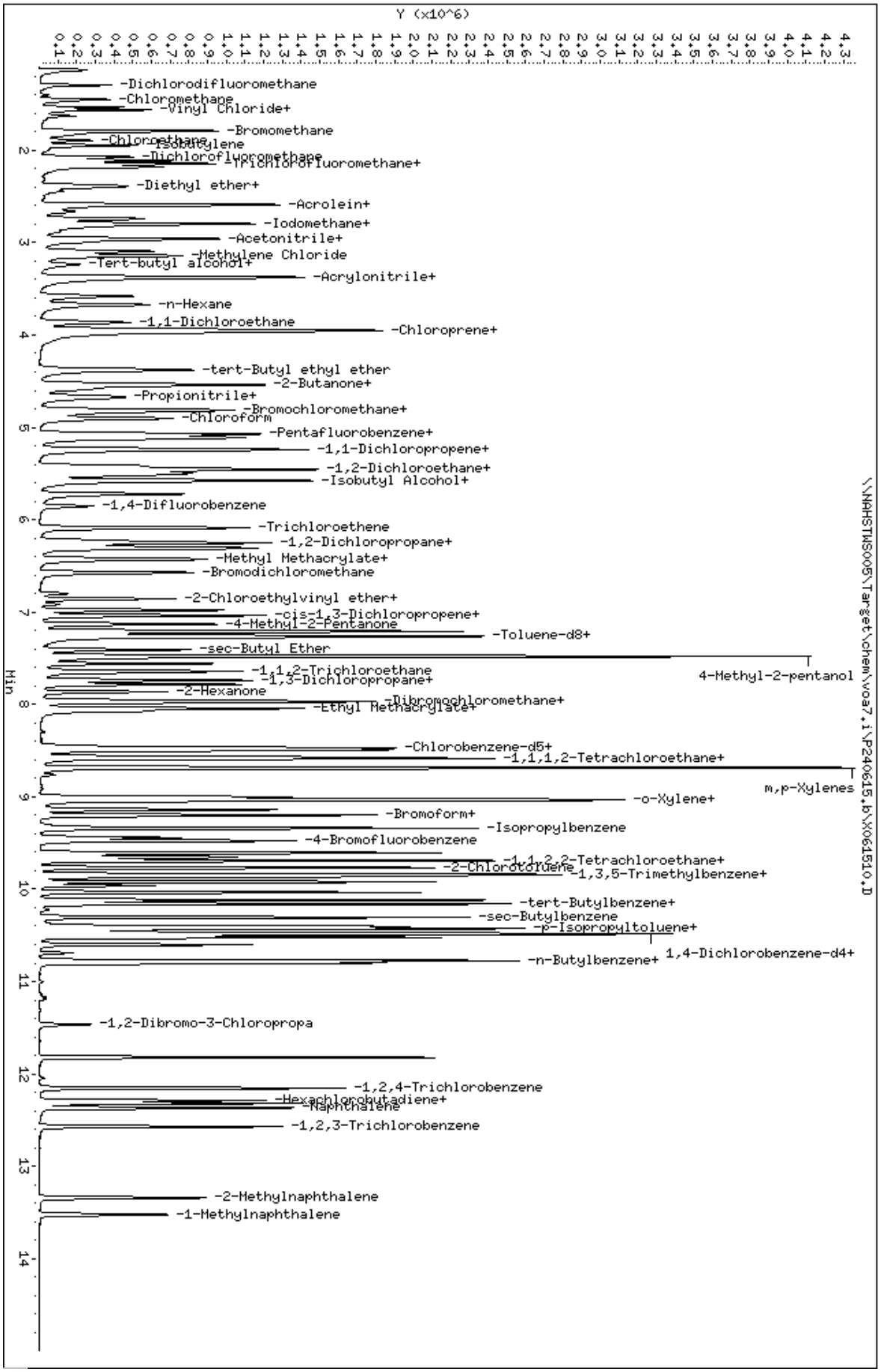
75	1,3,5-Trimethylbenzene	105	9.840	9.840 (0.941)	1199205	200.000	203.33(A)
76	2-Chlorotoluene	91	9.766	9.766 (0.934)	995846	200.000	202.20(A)

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061510.D Page 3
Report Date: 12-Jul-2024 11:38

	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)	1184483	200.000	202.59(A)
78	tert-Butylbenzene	119	10.120	10.120	(0.967)	969754	200.000	202.17(A)
79	1,2,4-Trimethylbenzene	105	10.158	10.158	(0.971)	1174459	200.000	202.68(A)
81	sec-Butylbenzene	105	10.303	10.303	(0.985)	1357880	200.000	202.95(A)
82	p-Isopropyltoluene	119	10.428	10.428	(0.997)	1222531	200.000	202.84(A)
83	1,3-Dichlorobenzene	146	10.406	10.406	(0.995)	661530	200.000	202.49(A)
84	1,4-Dichlorobenzene	146	10.480	10.480	(1.002)	669697	200.000	202.03(A)
87	n-Butylbenzene	91	10.776	10.776	(1.030)	1137513	200.000	202.32(A)
88	1,2-Dichlorobenzene	146	10.798	10.798	(1.032)	632693	200.000	201.82(A)
89	1,2-Dibromo-3-Chloropropane	75	11.464	11.464	(1.096)	64003	200.000	197.85
90	1,2,4-Trichlorobenzene	180	12.155	12.155	(1.162)	425707	200.000	202.49(A)
91	Hexachlorobutadiene	225	12.290	12.290	(1.175)	203423	200.000	202.62(A)
92	Naphthalene	128	12.367	12.367	(1.182)	921837	200.000	196.32
93	1,2,3-Trichlorobenzene	182	12.570	12.570	(1.202)	341625	200.000	199.86
135	1,4-Dioxane	88	6.448	6.448	(1.257)	43691	4000.00	3971.44(AM)
146	Methyl acetate	43	2.991	2.991	(0.583)	219776	200.000	200.90(A)
138	Freon TF	101	2.590	2.590	(0.505)	284404	200.000	202.03(A)
139	Diethyl ether	59	2.377	2.377	(0.463)	204606	200.000	204.12(A)
140	1,3-Butadiene	54	1.564	1.564	(0.305)	182119	200.000	202.38(A)
141	Cyclohexane	56	5.110	5.110	(0.996)	489133	200.000	202.13
147	Methylcyclohexane	83	6.252	6.252	(1.068)	469723	200.000	202.35(A)
132	n-Butanol	56	6.252	6.252	(1.219)	180021	4000.00	4111.77(TA)
131	Methyl Acrylate	55	4.689	4.689	(0.914)	294954	200.000	199.25
133	Ethyl Acrylate	55	6.249	6.249	(1.218)	765252	200.000	197.80(M)
136	n-Hexane	57	3.673	3.673	(0.716)	360049	200.000	202.71(A)
142	Tetrahydrofuran	42	4.860	4.860	(0.947)	105694	400.000	407.17(A)
148	Tert-butyl alcohol	59	3.236	3.236	(0.631)	336149	4000.00	3312.77
149	Isopropyl alcohol	45	2.818	2.818	(0.549)	271337	4000.00	3994.43
151	4-Methyl-2-pentanol	45	7.477	7.477	(0.883)	2215844	4000.00	3995.34
166	1,2,3-Trimethylbenzene	105	10.522	10.522	(1.006)	1018812	200.000	180.70
167	Ethanol	45	2.313	2.313	(0.451)	38509	4000.00	4001.14(A)
172	tert-Butyl formate	59	3.236	3.236	(0.631)	336149	400.000	402.41(A)
173	3,3-Dimethyl-1-butanol	57	8.043	8.043	(0.950)	656537	4000.00	3999.41
174	tert-Amyl methyl ether	73	5.580	5.580	(1.088)	840188	200.000	200.66(A)
175	tert-Butyl ethyl ether	59	4.377	4.377	(0.853)	924307	200.000	197.15
157	2-Methylnaphthalene	142	13.342	13.342	(1.275)	416611	200.000	243.77(A)
156	Diisopropyl ether	45	3.950	3.950	(0.770)	1051609	200.000	192.60
171	1-Methylnaphthalene	142	13.525	13.525	(1.293)	333680	200.000	220.83(A)
130	Ethyl Acetate	43	3.946	3.946	(0.769)	1931046	200.000	201.19(A)
176	tert-Amyl alcohol	59	5.515	5.515	(1.075)	319518	4000.00	4004.03(A)
160	Epichlorohydrin	57	6.917	6.917	(1.182)	79218	800.000	804.72(A)
161	Butyl acrylate	55	8.998	8.998	(1.063)	724805	200.000	200.08(A)
182	Isobutylene	56	1.946	1.946	(0.380)	46322	200.000	199.66(AM)
183	Isopropyl Acetate	43	5.573	5.573	(0.952)	902069	200.000	200.78(A)
184	n-Amyl acetate	43	9.197	9.197	(1.086)	709851	200.000	201.76(A)
185	Acetaldehyde	44	1.628	1.628	(0.317)	175217	800.000	802.79(A)
186	n-Butyl acetate	43	7.969	7.969	(0.941)	496957	200.000	199.84(AM)
187	2-Etyhlhexyl Acrylate	55	12.319	12.319	(1.178)	412027	200.000	199.87(TAM)
188	Tetrahydrothiophene	60	7.959	7.959	(0.940)	335016	200.000	200.01(TAM)
189	sec-Butyl Ether	57	7.406	7.406	(0.875)	269472	200.000	197.18(AM)
190	Isoprene	39	2.397	2.397	(0.467)	85840	200.000	202.04(AM)
191	2-Chloropropene	41	2.146	2.146	(0.418)	453281	200.000	191.62(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.



Data File: \\NAHSTWS005\Target\chem\voa7,i\P240615,b\X061510.D
Date : 15-JUN-2024 17:04
Client ID: VSTD200
Sample Info: VSTD200;VSTD200;1;9
Purge Volume: 5.0
Column phase: DB624

Instrument: voa7,i
Operator: AP
Column diameter: 0.18

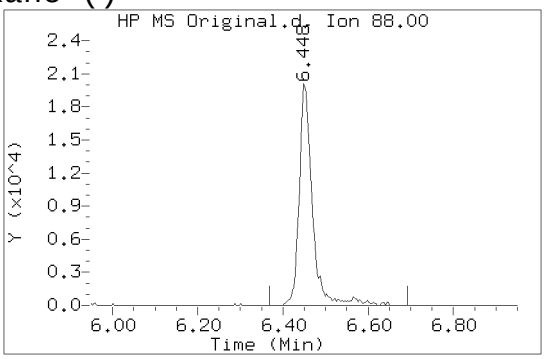
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061510.D
Inj Date : 15-JUN-2024 17:04
InstruID : voa7.i
LabSampID : VSTD200

1,4-Dioxane ()

Reason Code:

BEFORE

MASS
88
AREA
43691
HEIGHT
20104
12-Jul-2024
11:38
s
zaid



AFTER

MASS
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AREA
43691
HEIGHT
20104
12-Jul-2024
11:38
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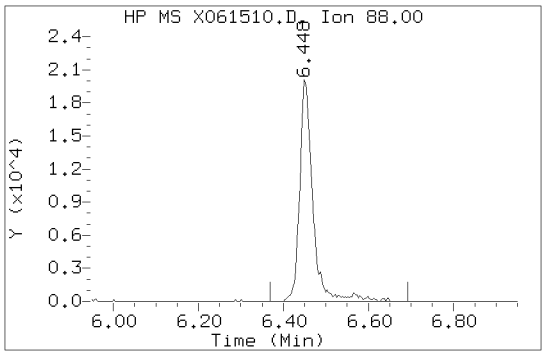

BEFORE

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58
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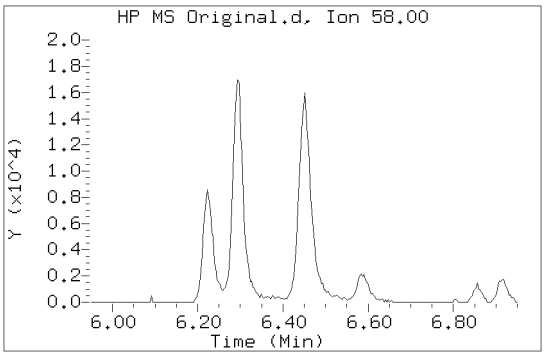
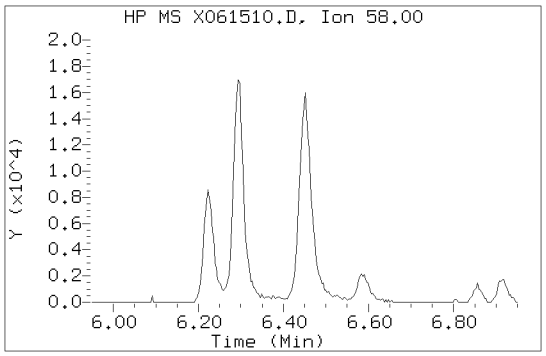
337
HEIGHT
431
12-Jul-2024
11:38
s
zaid



AFTER

MASS
58
AREA
337
HEIGHT
431
12-Jul-2024
11:38
s
zaid



Ethyl Acrylate (140-88-5)

Reason Code:

BEFORE

MASS
55
AREA
765252
HEIGHT
231571
12-Jul-2024
11:38
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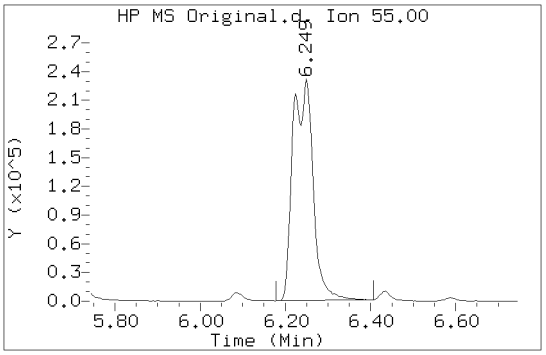
zaid



AFTER

MASS
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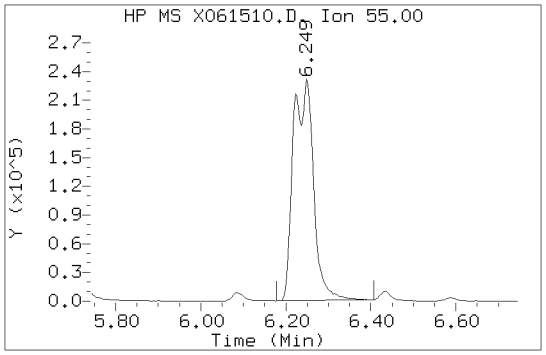
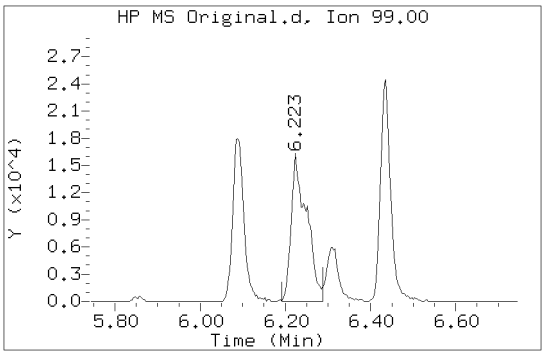
AREA
765252
HEIGHT
231571
12-Jul-2024
11:38
s
zaid



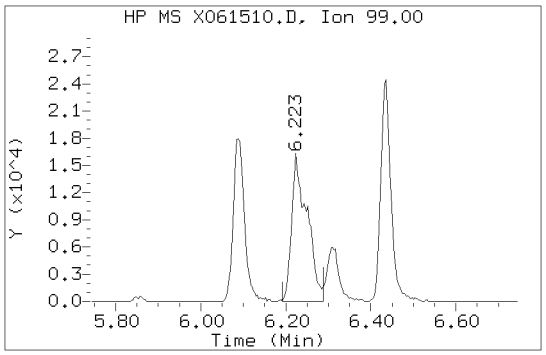
BEFORE

MASS
99
AREA
41094
HEIGHT
16355
12-Jul-2024
11:38
s
zaid



AFTER

MASS
99
AREA
41094
HEIGHT
16355
12-Jul-2024
11:38
s
zaid



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Inj Date : 15-JUN-2024 17:04
InstruID : voa7.i
LabSampID : VSTD200

Isobutylene (115-11-7)

Reason Code:

BEFORE
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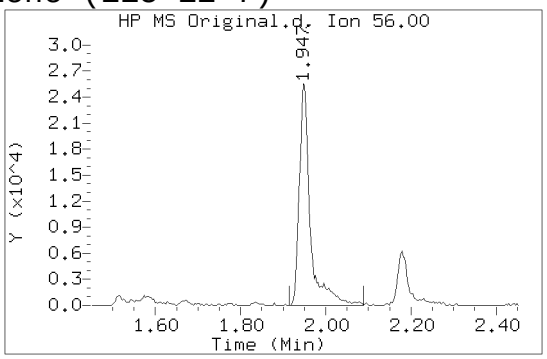
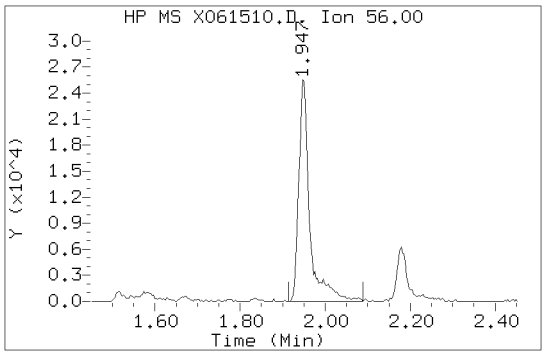
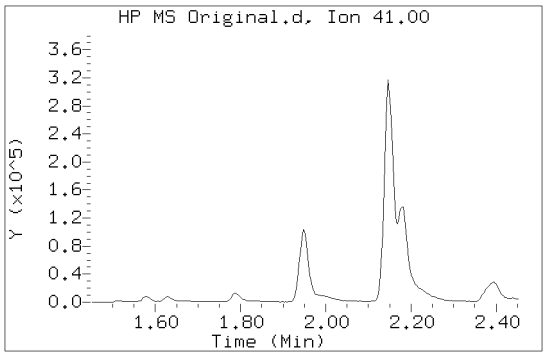
AREA
46322
HEIGHT
25544
12-Jul-2024
11:38
s
zaid



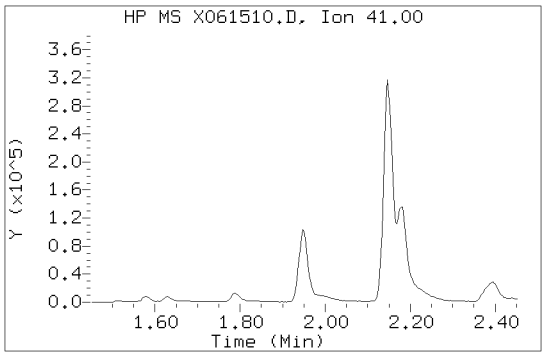
AFTER
MASS
56
AREA
46322
HEIGHT
25544
12-Jul-2024
11:38
s
zaid



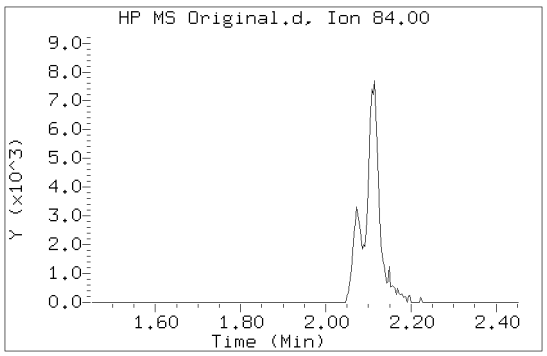
BEFORE
MASS
41
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



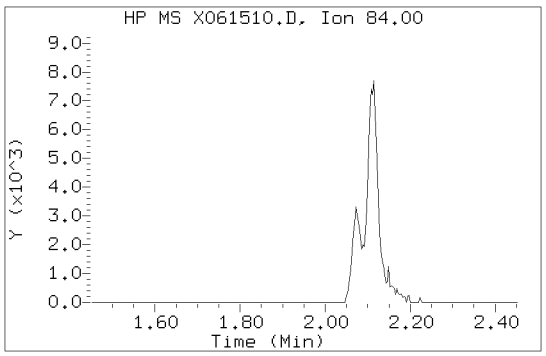
AFTER
MASS
41
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
84
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



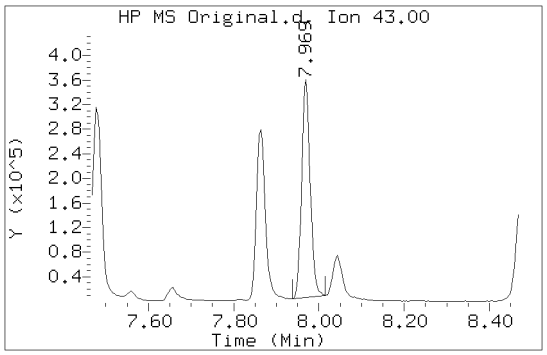
AFTER
MASS
84
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



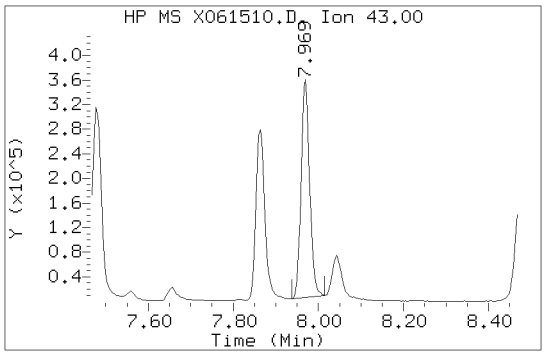
n-Butyl acetate (123-86-4)

Reason Code:

BEFORE
MASS
43
AREA
496957
HEIGHT
353835
12-Jul-2024
11:38
s
zaid



AFTER
MASS
43
AREA
496957
HEIGHT
353835
12-Jul-2024
11:38
s
zaid



Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061510.D
Inj Date : 15-JUN-2024 17:04
InstruID : voa7.i
LabSampID : VSTD200

n-Butyl acetate (123-86-4)

BEFORE
MASS
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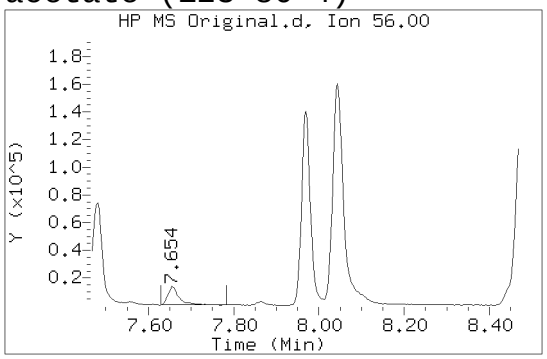
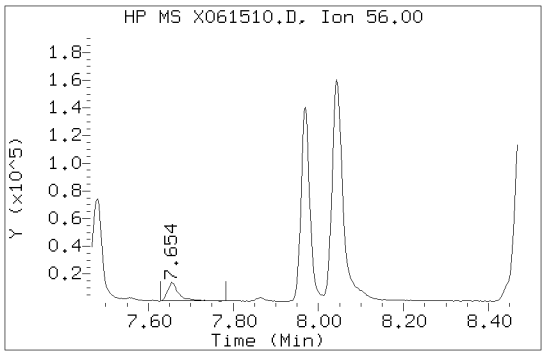
AREA
24447
HEIGHT
13559
12-Jul-2024
11:38
s
zaid



Reason Code:

AFTER
MASS
56
AREA
24447
HEIGHT
13559
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
87
AREA
24622
HEIGHT
15833
12-Jul-2024
11:38
s
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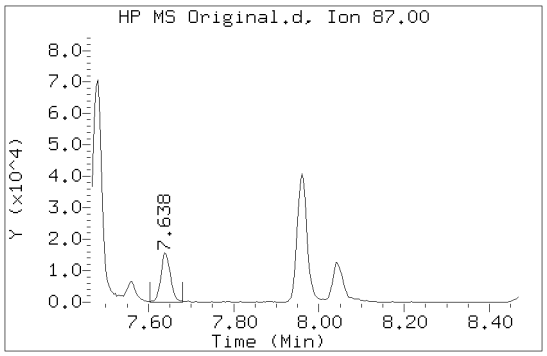

AFTER
MASS
87
AREA
24622
HEIGHT
15833
12-Jul-2024
11:38
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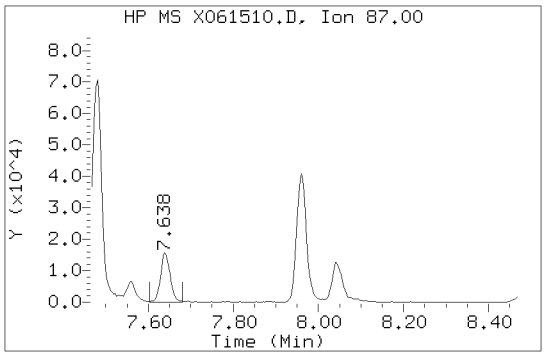
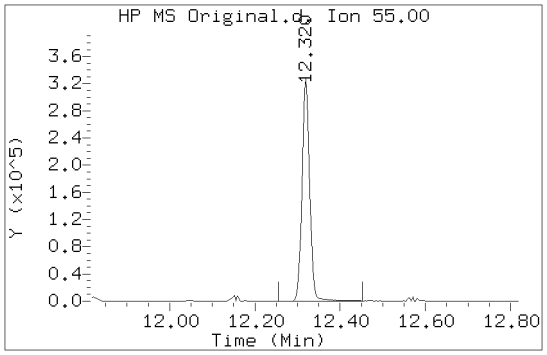
zaid



2-Etyhlhexyl Acrylate (103-11-7)

Reason Code:

BEFORE
MASS
55
AREA
412027
HEIGHT
326580
12-Jul-2024
11:38
s
zaid



AFTER
MASS
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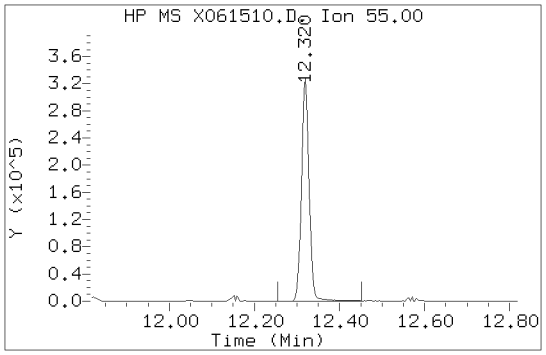
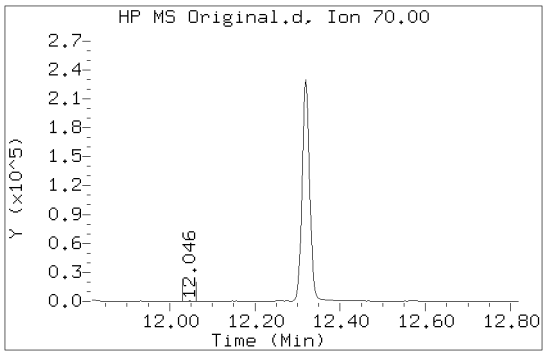
AREA
412027
HEIGHT
326580
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
70
AREA
375
HEIGHT
429
12-Jul-2024
11:38
s
zaid



AFTER
MASS
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AREA
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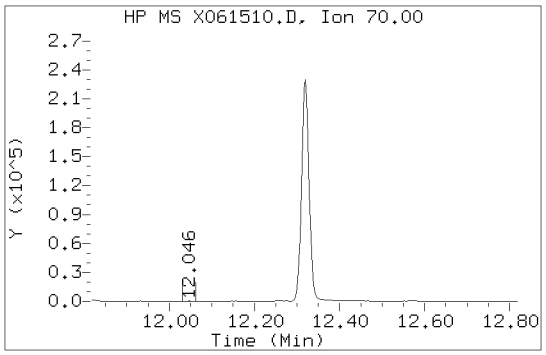
HEIGHT
429
12-Jul-2024
11:38
s
zaid



Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061510.D
Inj Date : 15-JUN-2024 17:04
InstruID : voa7.i
LabSampID : VSTD200

Tetrahydrothiophene (110-01-0)

Reason Code:

BEFORE
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AREA
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HEIGHT
208586
12-Jul-2024
11:38
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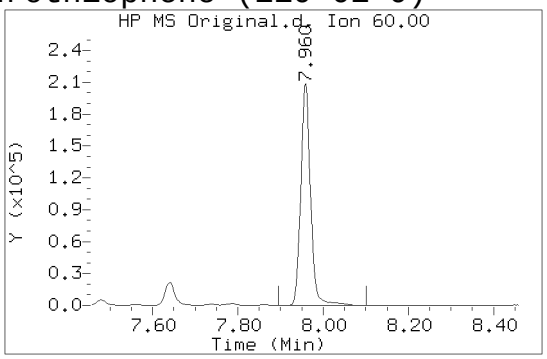
zaid



AFTER
MASS
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AREA
335016
HEIGHT
208586
12-Jul-2024
11:38
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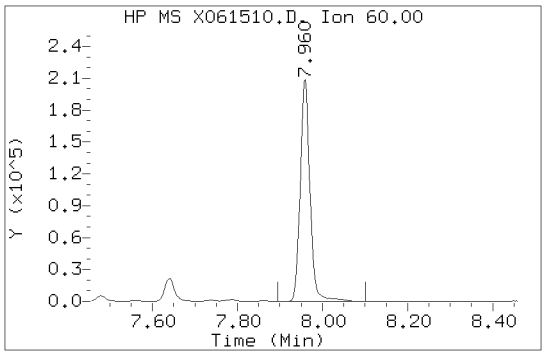
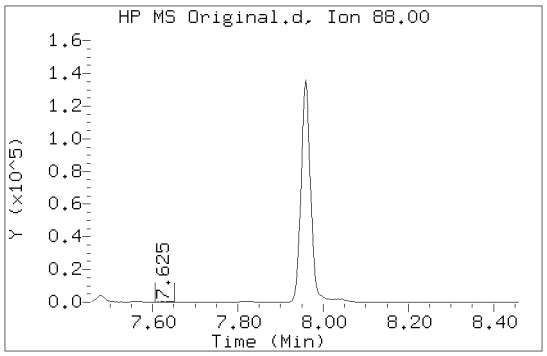
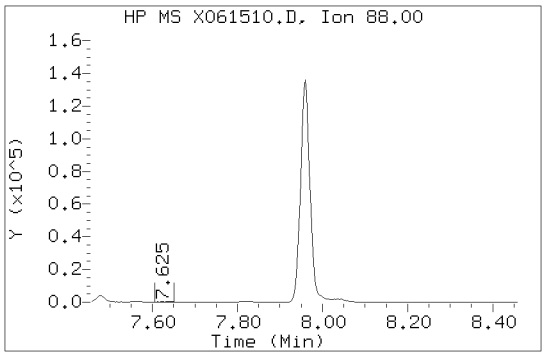
zaid



BEFORE
MASS
88
AREA
509
HEIGHT
393
12-Jul-2024
11:38
s
zaid



AFTER
MASS
88
AREA
509
HEIGHT
393
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
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AREA
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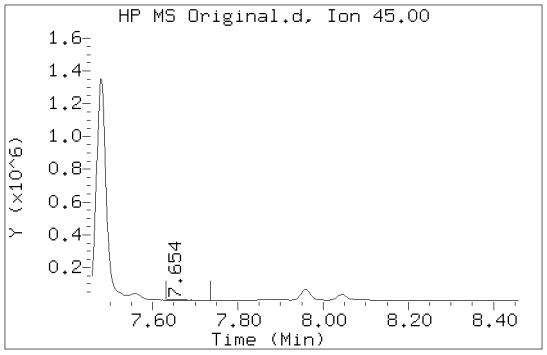
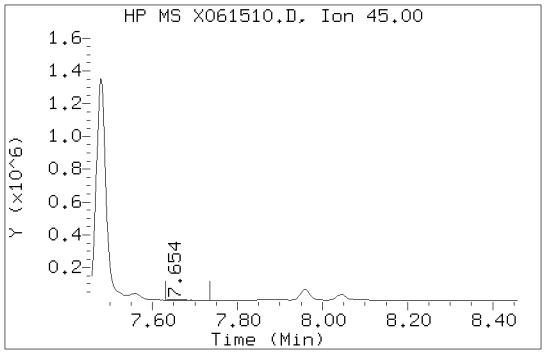
HEIGHT
5116
12-Jul-2024
11:38
s
zaid



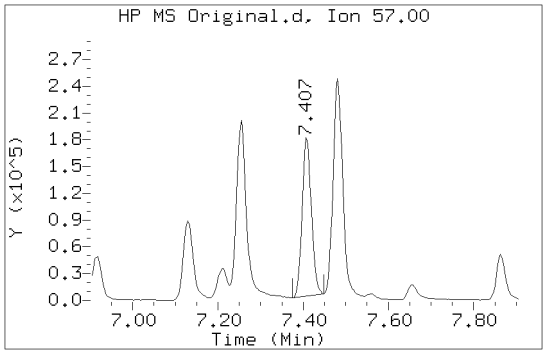
AFTER
MASS
45
AREA
10289
HEIGHT
5116
12-Jul-2024
11:38
s
zaid



sec-Butyl Ether (6863-58-7)

Reason Code:

BEFORE
MASS
57
AREA
269472
HEIGHT
177967
12-Jul-2024
11:38
s
zaid



AFTER
MASS
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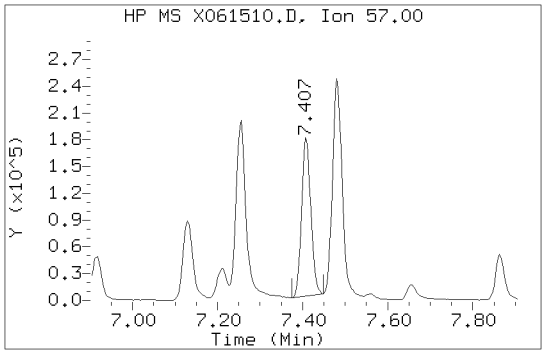
AREA
269472
HEIGHT
177967
12-Jul-2024
11:38
s
zaid

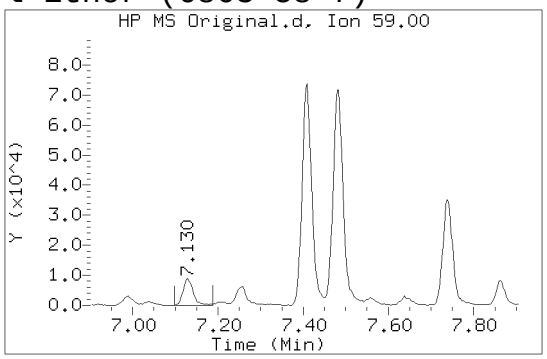


Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061510.D
Inj Date : 15-JUN-2024 17:04
InstruID : voa7.i
LabSampID : VSTD200

sec-Butyl Ether (6863-58-7)

Reason Code:

BEFORE
MASS
59
AREA
14780
HEIGHT
8928
12-Jul-2024
11:38
s
zaid



AFTER
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AREA
14780
HEIGHT
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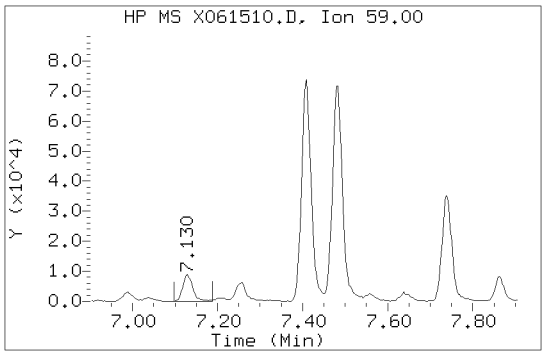
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
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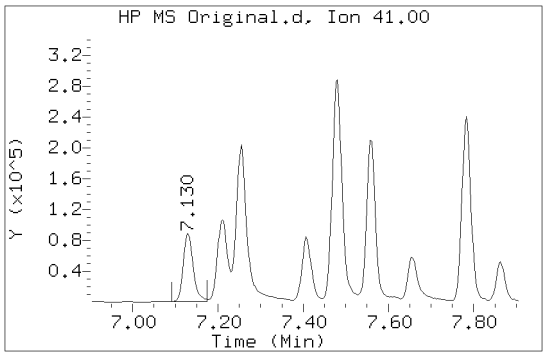
AREA
143085
HEIGHT
88485
12-Jul-2024
11:38
s
zaid



AFTER
MASS
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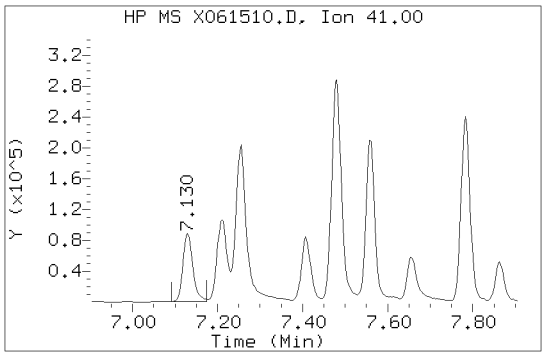
AREA
143085
HEIGHT
88485
12-Jul-2024
11:38
s
zaid



Isoprene (78-79-5)

Reason Code:

BEFORE
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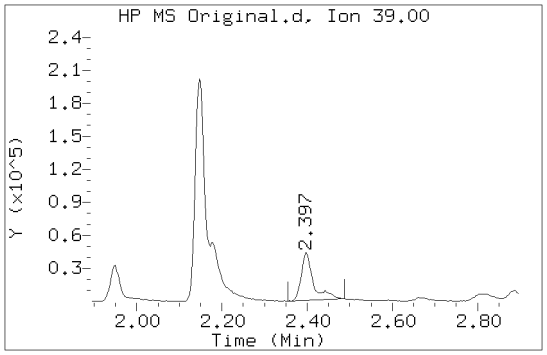
39
AREA
85840
HEIGHT
43299
12-Jul-2024
11:38
s
zaid



AFTER
MASS
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AREA
85840
HEIGHT
43299
12-Jul-2024
11:38
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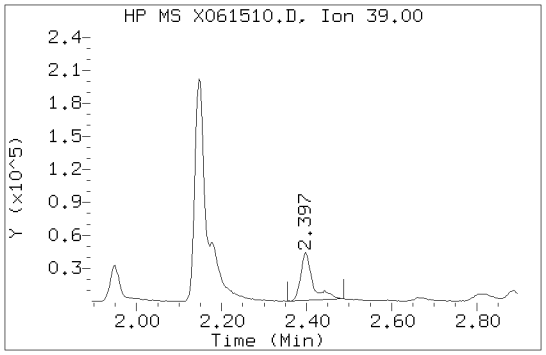

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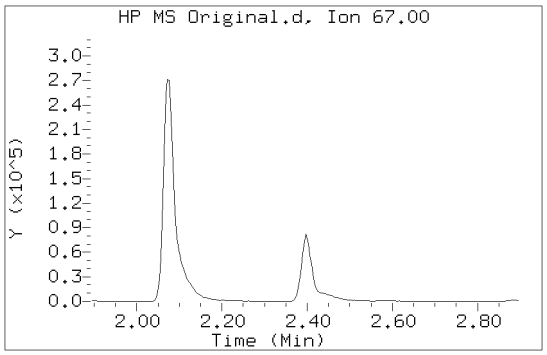

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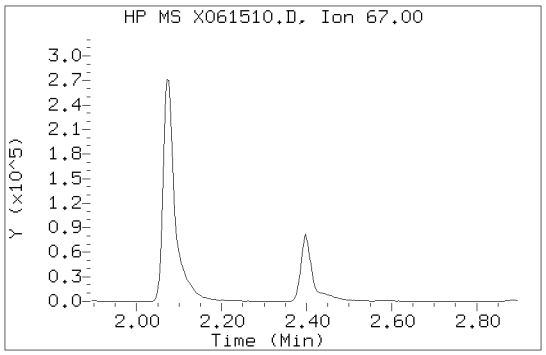

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Inj Date : 15-JUN-2024 17:04
InstruID : voa7.i
LabSampID : VSTD200

Isoprene (78-79-5)

Reason Code:

BEFORE

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12-Jul-2024
11:38
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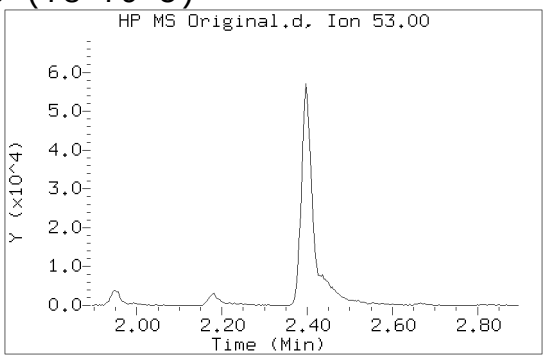

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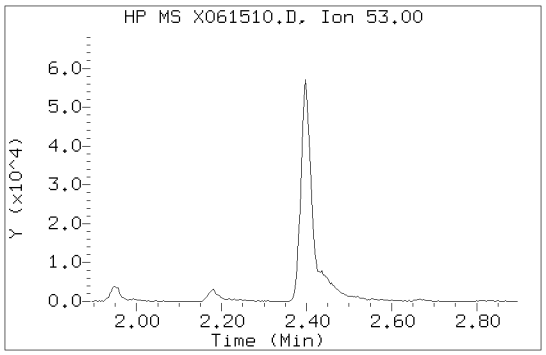

2-Chloropropene (557-98-2)

Reason Code:

BEFORE

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312568
12-Jul-2024
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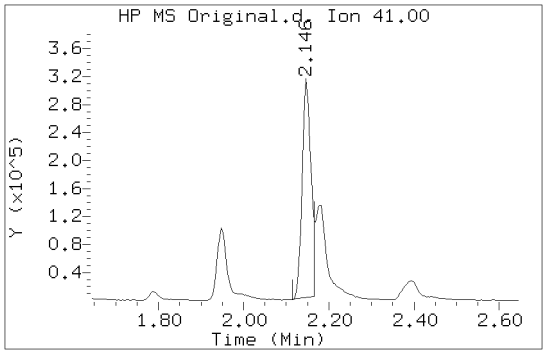

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12-Jul-2024
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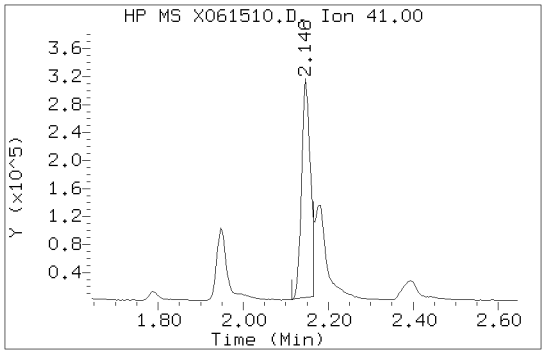


Data File: \\nahstws005\Target\chem\voa7.i\P240615.b\X061512.D Page 1
Report Date: 17-Jun-2024 10:52

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa7.i\P240615.b\X061512.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 15-JUN-2024 17:50
Operator : AP Inst ID: voa7.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240615.b\bfb.m
Meth Date : 25-Mar-2024 14:28 apoluri Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 12 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	
9.474	9.474	(0.000)	95	80376			0.00- 100.00	100.00
9.474	9.474	(0.000)	50	15549			15.00- 40.00	19.35
9.474	9.474	(0.000)	75	40272			30.00- 60.00	50.10
9.474	9.474	(0.000)	96	5267			5.00- 9.00	6.55
9.474	9.474	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
9.474	9.474	(0.000)	174	62496			50.00- 0.00	77.75
9.474	9.474	(0.000)	175	5536			5.00- 9.00	8.86
9.474	9.474	(0.000)	176	60184			95.00- 101.00	96.30
9.474	9.474	(0.000)	177	4246			5.00- 9.00	7.06

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061513A.D Page 1
Report Date: 15-Jul-2024 08:45

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061513A.D
Lab Smp Id: VSTD50   Client Smp ID: VSTD050
Inj Date : 15-JUN-2024 18:35
Operator : AP   Inst ID: voa7.i
Smp Info : VSTD50;VSTD050;2;;ICV
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240615.b\8260W.m
Meth Date : 15-Jul-2024 08:40 s.zaid   Quant Type: ISTD
Cal Date : 15-JUN-2024 16:41   Cal File: X061509.D
Als bottle: 13   QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

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	5.133	5.133	(1.000)	136227	50.0000	
2 Dichlorodifluoromethane	85	1.294	1.294	(0.252)	61785	42.7266	42.72
159 Dichlorofluoromethane	67	2.075	2.072	(0.404)	126319	44.5283	44.52
3 Chloromethane	50	1.448	1.448	(0.282)	93411	44.3695	44.36
4 Propionitrile	54	4.670	4.670	(0.910)	93957	510.307	510.30
5 Vinyl Chloride	62	1.535	1.532	(0.299)	85693	44.5632	44.56
6 Bromomethane	94	1.808	1.808	(0.352)	47993	46.1741	46.17
7 Chloroethane	64	1.895	1.895	(0.369)	53517	45.7972	45.79
8 Trichlorofluoromethane	101	2.113	2.110	(0.412)	109974	44.1650	44.16
9 Acrolein	56	2.519	2.519	(0.491)	3782	98.5359	98.53
10 Acetone	43	2.667	2.667	(0.520)	45957	96.7453	96.74
11 1,1-Dichloroethene	96	2.593	2.589	(0.505)	65023	46.4001	46.40
12 Isobutyl Alcohol	43	5.573	5.573	(1.086)	216526	955.253	955.25
13 Acetonitrile	39	2.962	2.959	(0.577)	99382	470.620	470.62
14 Allyl Chloride	41	2.956	2.959	(0.576)	207645	47.3636	47.36
15 Iodomethane	142	2.744	2.740	(0.535)	160798	90.6493	90.64
16 Acrylonitrile	53	3.380	3.371	(0.659)	46791	97.7013	97.70
17 Methylene Chloride	84	3.094	3.091	(0.603)	74608	46.2251	46.22
18 Methyl tert-butyl ether	73	3.380	3.377	(0.659)	177333	45.8395	45.83
19 Carbon Disulfide	76	2.795	2.795	(0.545)	383629	89.1120	89.11

20 trans-1,2-Dichloroethene	96	3.374	3.377 (0.657)	66371	45.5569	45.55
21 Vinyl Acetate	43	4.657	4.657 (0.907)	72230	93.5861	93.58

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061513A.D Page 2
Report Date: 15-Jul-2024 08:45

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
22	1,1-Dichloroethane	63	3.863	3.863	(0.753)	137106	42.8111	42.81
23	Chloroprene	53	3.965	3.966	(0.773)	112610	44.2631	44.26
24	2-Butanone	43	4.589	4.586	(0.894)	61809	95.5627	95.56
25	Methacrylonitrile	41	2.149	2.146	(0.419)	104812	46.1638	46.16
26	2,2-Dichloropropane	77	4.535	4.531	(0.883)	113593	41.7855	41.78
27	cis-1,2-Dichloroethene	96	4.544	4.544	(0.885)	75661	46.4828	46.48
28	Chloroform	83	4.901	4.901	(0.955)	133339	45.9129	45.91
29	Bromochloromethane	128	4.808	4.802	(0.937)	37284	47.0646	47.06
$ 30	Dibromofluoromethane	113	5.072	5.072	(0.988)	70019	48.1382	48.13
31	1,1,1-Trichloroethane	97	5.075	5.072	(0.989)	112999	44.1967	44.19
32	1,1-Dichloropropene	75	5.245	5.245	(0.896)	99095	44.4191	44.41
33	1,2-Dichloroethane	62	5.490	5.493	(0.938)	111939	45.3701	45.37
34	Carbon Tetrachloride	117	5.236	5.232	(0.895)	95671	42.5311	42.53
$ 35	1,2-Dichloroethane-d4	65	5.416	5.412	(1.055)	90411	46.5250	46.52
* 36	1,4-Difluorobenzene	114	5.853	5.853	(1.000)	227526	50.0000	
37	Benzene	78	5.457	5.457	(0.932)	276508	45.5396	45.53
38	Trichloroethene	130	6.088	6.088	(1.040)	71234	45.4414	45.44
39	Bromodichloromethane	83	6.570	6.570	(1.122)	102608	40.5073	40.50
40	Methyl Methacrylate	41	6.432	6.432	(1.253)	72561	49.7630	49.76
41	2-Chloroethylvinyl ether	63	6.853	6.856	(1.171)	62235	100.673	100.67(A)
42	1,2-Dichloropropane	63	6.309	6.309	(1.078)	80122	45.8656	45.86
43	2-Nitropropane	43	6.798	6.798	(1.324)	22639	46.3672	46.36
44	Dibromomethane	93	6.416	6.419	(1.096)	45856	45.9899	45.98
45	4-Methyl-2-Pentanone	43	7.126	7.126	(0.842)	151701	96.8892	96.88
46	cis-1,3-Dichloropropene	75	6.978	6.975	(1.192)	107051	42.9756	42.97
* 47	Chlorobenzene-d5	117	8.467	8.467	(1.000)	209133	50.0000	
$ 48	Toluene-d8	98	7.203	7.203	(0.851)	246619	48.7535	48.75
49	Ethyl Methacrylate	69	8.039	8.043	(1.374)	97275	48.5315	48.53
50	Toluene	91	7.264	7.264	(0.858)	289226	46.8348	46.83
51	trans-1,3-Dichloropropene	75	6.978	6.975	(1.192)	107051	42.9756	42.97
52	2-Hexanone	43	7.859	7.859	(0.928)	105118	99.2636	99.26
53	1,1,2-Trichloroethane	83	7.637	7.637	(0.902)	56629	48.7611	48.76
54	1,3-Dichloropropane	76	7.782	7.782	(0.919)	117938	47.2500	47.25
55	Dibromochloromethane	129	7.978	7.975	(0.942)	74336	43.3965	43.39
56	Tetrachloroethene	164	7.737	7.737	(0.914)	54881	46.3100	46.30
57	1,2-Dibromoethane	107	8.071	8.071	(0.953)	56824	46.0540	46.05
58	1-Chlorohexane	55	8.467	8.467	(1.447)	72236	45.7622	45.76
59	Chlorobenzene	112	8.493	8.493	(1.003)	189695	46.8996	46.89
60	1,1,1,2-Tetrachloroethane	131	8.563	8.563	(1.011)	65674	45.3115	45.31
61	Ethylbenzene	106	8.583	8.583	(1.014)	96847	46.3161	46.31
62	m,p-Xylenes	106	8.682	8.682	(1.025)	243915	93.1886	93.18
63	o-Xylene	106	9.023	9.023	(1.066)	117675	46.5592	46.55
64	Styrene	104	9.039	9.039	(1.068)	212390	47.5650	47.56
66	Bromoform	173	9.206	9.206	(1.087)	48677	45.0671	45.06
67	Isopropylbenzene	105	9.338	9.338	(1.103)	301177	45.9827	45.98
68	1,1,2,2-Tetrachloroethane	83	9.608	9.608	(0.919)	88012	47.9223	47.92
$ 69	4-Bromofluorobenzene	95	9.473	9.473	(1.119)	99134	48.9527	48.95
* 70	1,4-Dichlorobenzene-d4	152	10.457	10.457	(1.000)	109830	50.0000	
71	1,2,3-Trichloropropane	75	9.650	9.647	(0.923)	97296	46.6570	46.65
72	trans-1,4-Dichloro-2-butene	53	9.660	9.657	(1.141)	19704	43.2626	43.26
73	n-Propylbenzene	91	9.689	9.689	(0.927)	371370	45.3059	45.30
74	Bromobenzene	156	9.605	9.602	(0.919)	82413	46.2048	46.20

75	1,3,5-Trimethylbenzene	105	9.837	9.837 (0.941)	264058	44.7875	44.78
76	2-Chlorotoluene	91	9.766	9.766 (0.934)	228938	45.9649	45.96

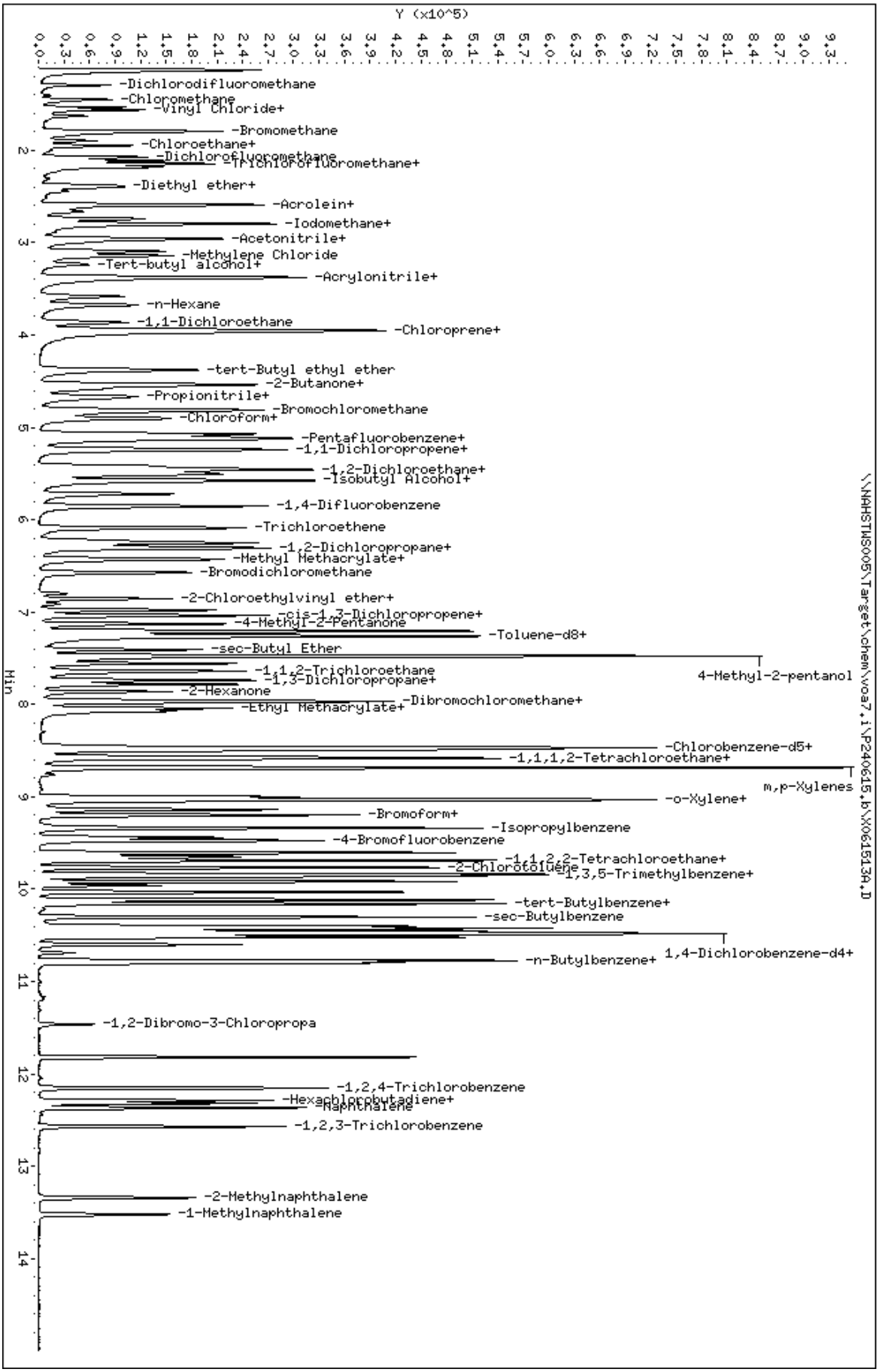
Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061513A.D Page 3
Report Date: 15-Jul-2024 08:45

	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)	268779	45.6093	45.60
78	tert-Butylbenzene	119	10.116	10.116	(0.967)	216656	44.8275	44.82
79	1,2,4-Trimethylbenzene	105	10.158	10.158	(0.971)	266199	45.6782	45.67
81	sec-Butylbenzene	105	10.303	10.303	(0.985)	303656	45.3800	45.38
82	p-Isopropyltoluene	119	10.425	10.425	(0.997)	273024	45.2872	45.28
83	1,3-Dichlorobenzene	146	10.403	10.403	(0.995)	152118	46.3046	46.30
84	1,4-Dichlorobenzene	146	10.476	10.477	(1.002)	155589	46.4376	46.43
87	n-Butylbenzene	91	10.772	10.772	(1.030)	254820	45.1503	45.15
88	1,2-Dichlorobenzene	146	10.795	10.798	(1.032)	145939	46.2420	46.24
89	1,2-Dibromo-3-Chloropropane	75	11.464	11.464	(1.096)	14627	45.0653	45.06
90	1,2,4-Trichlorobenzene	180	12.155	12.152	(1.162)	93890	45.1489	45.14
91	Hexachlorobutadiene	225	12.287	12.290	(1.175)	45122	45.3586	45.35
92	Naphthalene	128	12.367	12.370	(1.183)	210650	44.7113	44.71
93	1,2,3-Trichlorobenzene	182	12.570	12.570	(1.202)	75982	44.3047	44.30
135	1,4-Dioxane	88	6.448	6.448	(1.256)	11466	1041.15	1041.14(A)
146	Methyl acetate	43	2.667	2.667	(0.520)	47651	43.2314	43.23(TM)
138	Freon TF	101	2.589	2.593	(0.505)	61266	44.1610	44.16
139	Diethyl ether	59	2.377	2.377	(0.463)	49622	49.9661	49.96
140	1,3-Butadiene	54	1.564	1.560	(0.305)	39081	44.4127	44.41
141	Cyclohexane	56	5.113	5.107	(0.996)	106180	43.7732	43.77
147	Methylcyclohexane	83	6.252	6.248	(1.068)	102076	45.2295	45.22
132	n-Butanol	56	6.248	6.252	(1.217)	40920	943.348	943.34(TM)
131	Methyl Acrylate	55	4.689	4.686	(0.914)	74381	49.7563	49.75
133	Ethyl Acrylate	55	6.223	6.223	(1.212)	181619	47.3824	47.38
136	n-Hexane	57	3.673	3.673	(0.716)	73886	42.5663	42.56
142	Tetrahydrofuran	42	4.863	4.859	(0.947)	24144	95.0148	95.01
148	Tert-butyl alcohol	59	3.239	3.236	(0.631)	84515	840.666	840.66
149	Isopropyl alcohol	45	2.814	2.808	(0.548)	71559	1040.89	1040.89
151	4-Methyl-2-pentanol	45	7.473	7.473	(0.883)	523832	954.944	954.94
166	1,2,3-Trimethylbenzene	105	10.518	10.518	(1.006)	243835	43.1038	43.10
167	Ethanol	45	2.310	2.310	(0.450)	11845	1064.25	1064.24
172	tert-Butyl formate	59	3.239	3.236	(0.631)	84515	100.266	100.26
173	3,3-Dimethyl-1-butanol	57	8.042	8.043	(0.950)	134546	984.001	984.00
174	tert-Amyl methyl ether	73	5.580	5.576	(1.087)	199364	47.9235	47.92
175	tert-Butyl ethyl ether	59	4.377	4.377	(0.853)	215092	46.3058	46.30
157	2-Methylnaphthalene	142	13.341	13.341	(1.276)	86847	50.6476	50.64
156	Diisopropyl ether	45	3.949	3.949	(0.769)	255250	47.1858	47.18
171	1-Methylnaphthalene	142	13.525	13.521	(1.293)	73172	48.2645	48.26
130	Ethyl Acetate	43	3.946	3.943	(0.769)	437922	46.1611	46.16
176	tert-Amyl alcohol	59	5.509	5.509	(1.073)	81575	1013.35	1013.35(A)
160	Epichlorohydrin	57	6.914	6.914	(1.181)	18383	186.359	186.35
161	Butyl acrylate	55	8.997	8.997	(1.063)	170560	48.0336	48.03
182	Isobutylene	56	1.953	1.953	(0.381)	10388	46.0776	46.07(AM)
183	Isopropyl Acetate	43	5.573	5.573	(0.952)	216526	47.3702	47.37(A)
184	n-Amyl acetate	43	9.194	9.194	(1.086)	152210	44.3932	44.39(A)
185	Acetaldehyde	44	1.628	1.631	(0.317)	45485	207.176	207.17(AM)
186	n-Butyl acetate	43	7.969	7.965	(0.941)	129734	52.3703	52.37(A)
187	2-Etyhlhexyl Acrylate	55	12.319	12.319	(1.178)	75925	53.9246	53.92(A)
188	Tetrahydrothiophene	60	7.956	7.959	(0.940)	81426	49.2748	49.27(A)
189	sec-Butyl Ether	57	7.406	7.406	(0.875)	66955	47.9291	47.92(A)
190	Isoprene	39	2.396	2.400	(0.467)	18252	43.6481	43.64(AM)
191	2-Chloropropene	41	2.149	2.146	(0.419)	104812	44.7230	44.72(A)

M	94 1,2-Dichloroethylene (total)	96		142032	92.0397	92.03
M	95 Xylenes (total)	106		361590	139.748	139.74

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\P240615.b\X061513A.D
Date : 15-JUN-2024 18:35
Client ID: VSTD050
Sample Info: VSTD50;VSTD050;2;;ICV
Purge Volume: 5.0
Column phase: DB624

Instrument: voa7.i
Operator: AP
Column diameter: 0.18

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Inj Date : 15-JUN-2024 18:35
InstruID : voa7.i
LabSampID : VSTD50

Methyl acetate (79-20-9)

BEFORE

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12-Jul-2024
11:38
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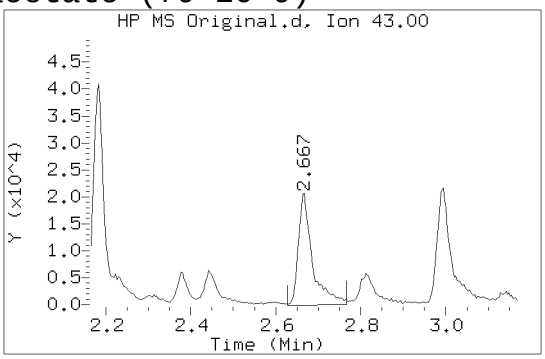

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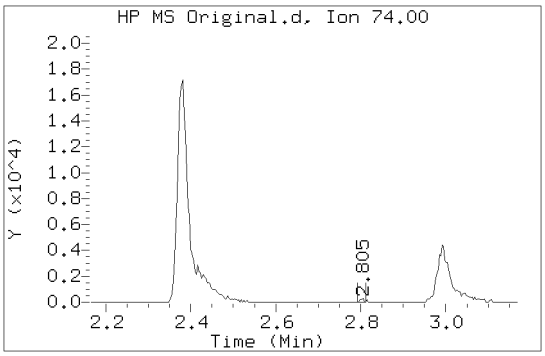

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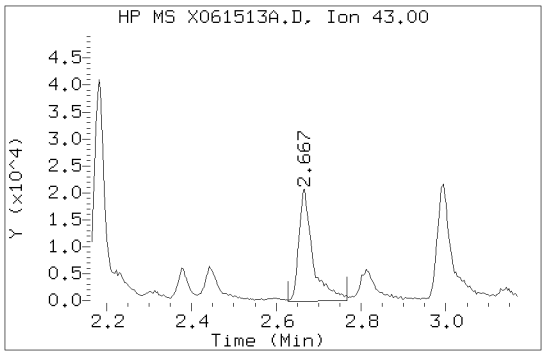

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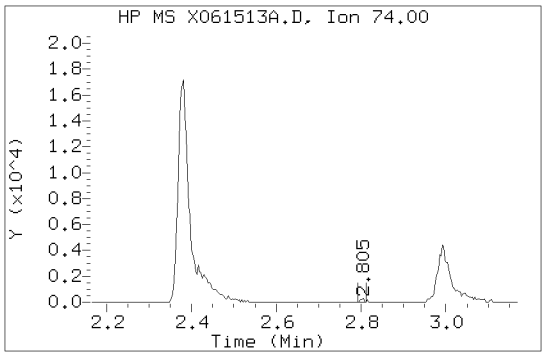

n-Butanol (71-36-3)

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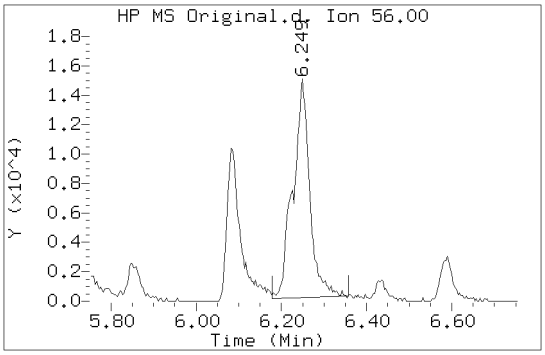

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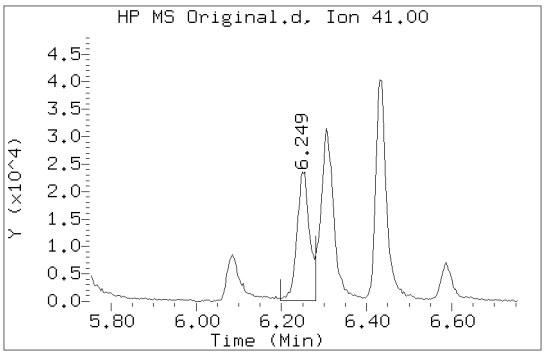

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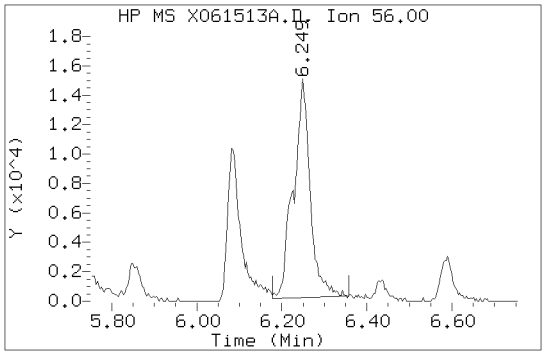

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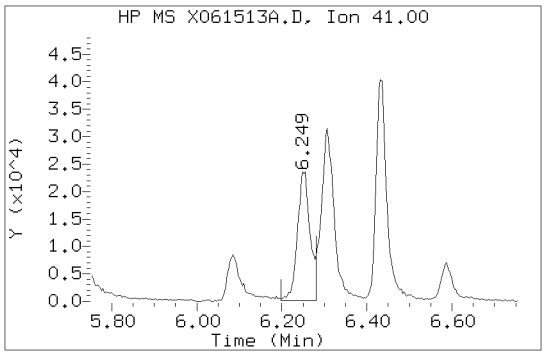

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InstruID : voa7.i
LabSampID : VSTD50

n-Butanol (71-36-3)

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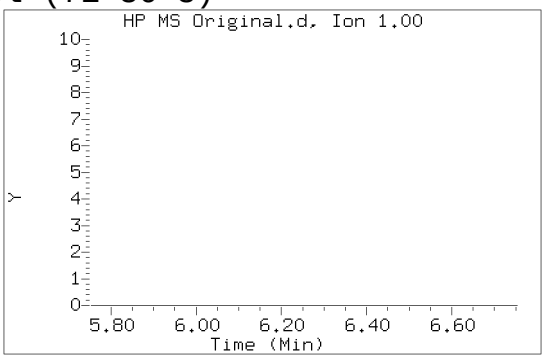

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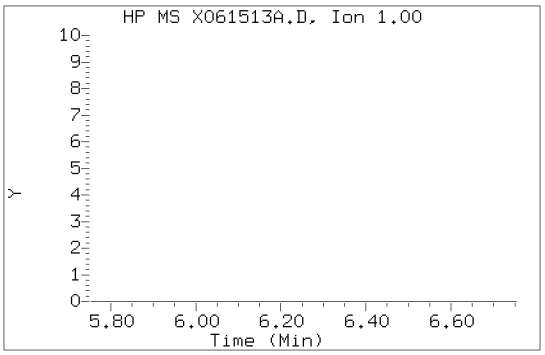

Isobutylene (115-11-7)

Reason Code:

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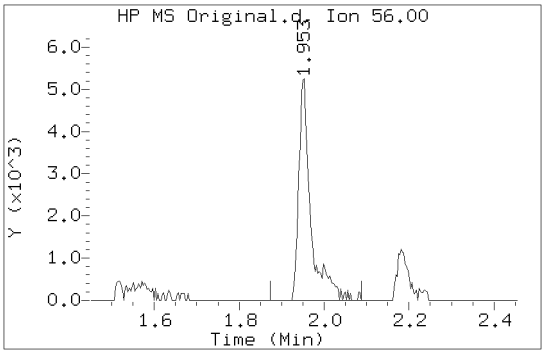

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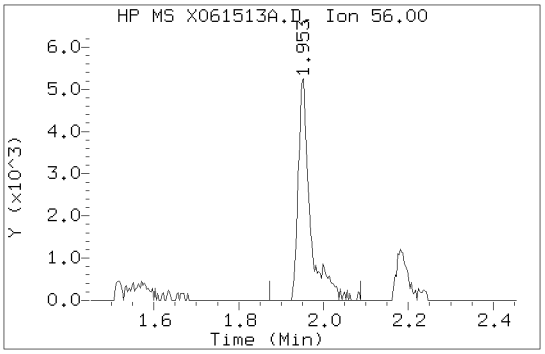

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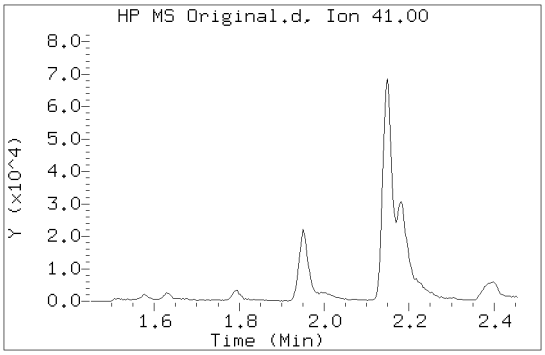

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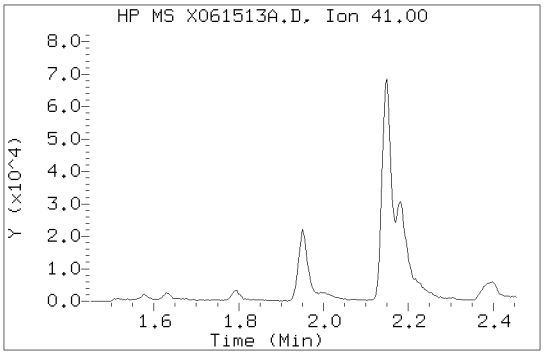

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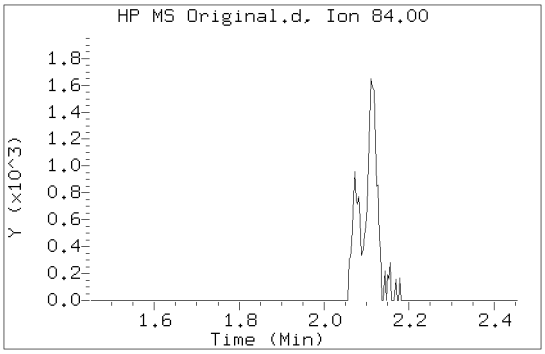

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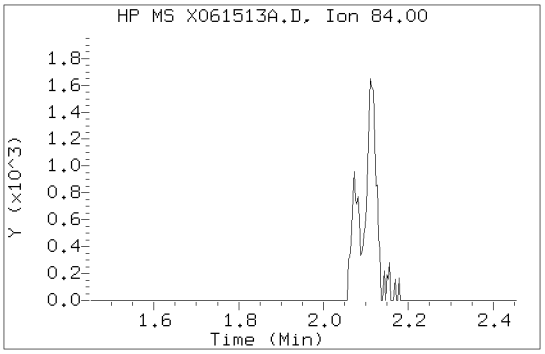

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Inj Date : 15-JUN-2024 18:35
InstruID : voa7.i
LabSampID : VSTD50

Acetaldehyde (75-07-0)

Reason Code:

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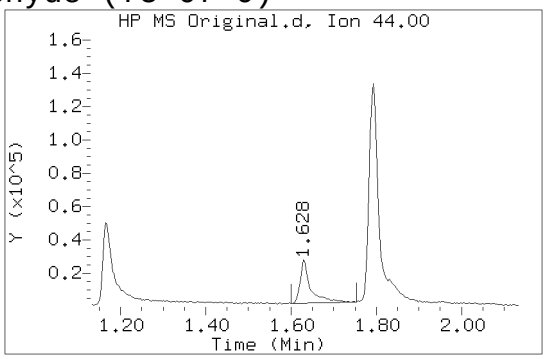

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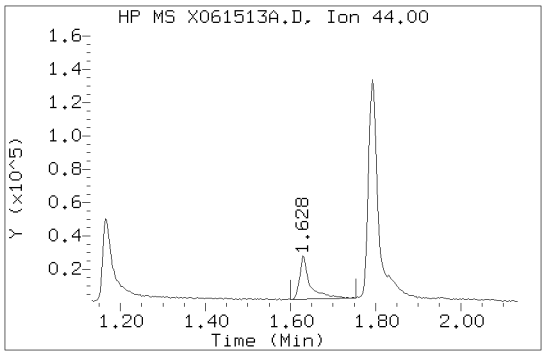

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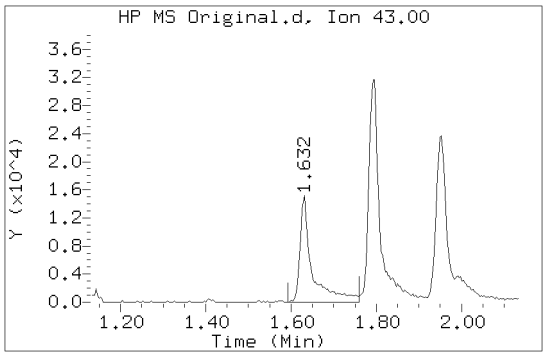

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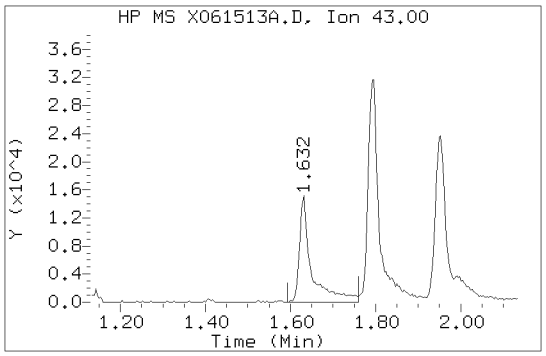

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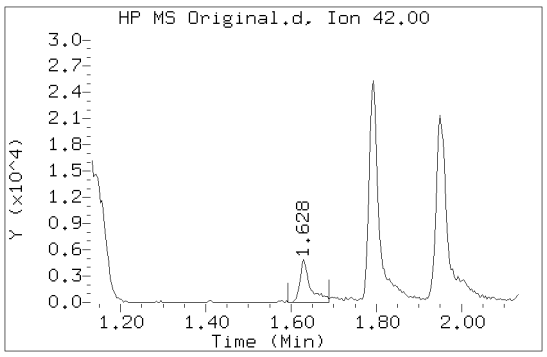

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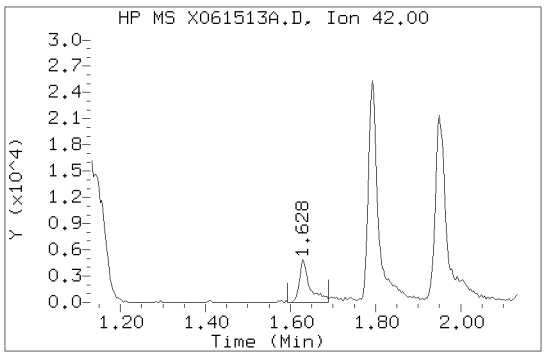

Isoprene (78-79-5)

Reason Code:

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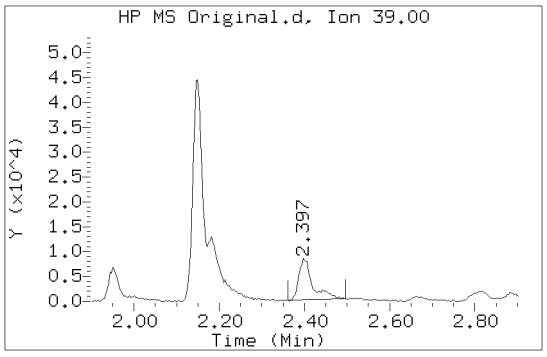

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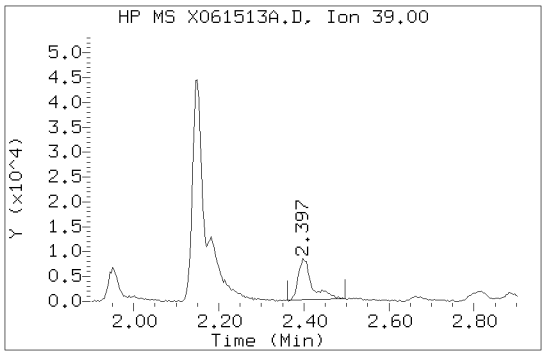

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Inj Date : 15-JUN-2024 18:35
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LabSampID : VSTD50

Isoprene (78-79-5)

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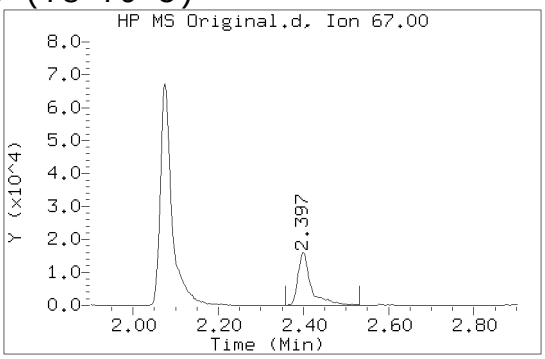

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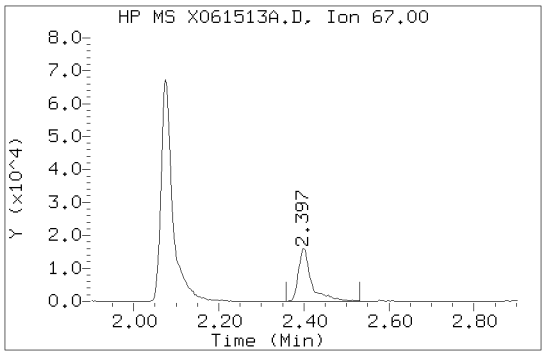

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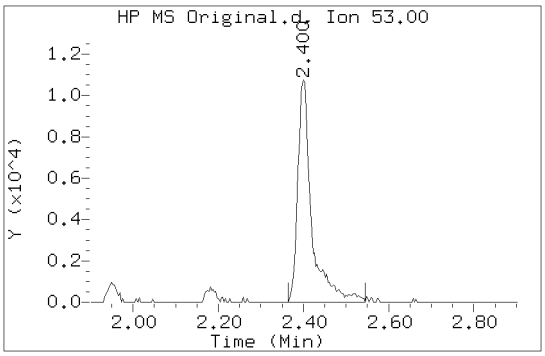

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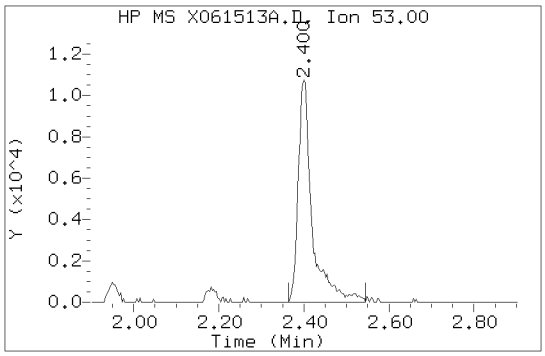

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RawData

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Workorder

HS24060747

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

07/22/2024

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\P240615.b\X061512.D Page 1
Report Date: 17-Jun-2024 10:52

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa7.i\P240615.b\X061512.D
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Inj Date : 15-JUN-2024 17:50
Operator : AP Inst ID: voa7.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240615.b\bfb.m
Meth Date : 25-Mar-2024 14:28 apoluri Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 12 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	
9.474	9.474	(0.000)	95	80376			0.00- 100.00	100.00
9.474	9.474	(0.000)	50	15549			15.00- 40.00	19.35
9.474	9.474	(0.000)	75	40272			30.00- 60.00	50.10
9.474	9.474	(0.000)	96	5267			5.00- 9.00	6.55
9.474	9.474	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
9.474	9.474	(0.000)	174	62496			50.00- 0.00	77.75
9.474	9.474	(0.000)	175	5536			5.00- 9.00	8.86
9.474	9.474	(0.000)	176	60184			95.00- 101.00	96.30
9.474	9.474	(0.000)	177	4246			5.00- 9.00	7.06

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061513A.D Page 1
Report Date: 15-Jul-2024 08:45

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061513A.D
Lab Smp Id: VSTD50   Client Smp ID: VSTD050
Inj Date : 15-JUN-2024 18:35
Operator : AP   Inst ID: voa7.i
Smp Info : VSTD50;VSTD050;2;;ICV
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240615.b\8260W.m
Meth Date : 15-Jul-2024 08:40 s.zaid Quant Type: ISTD
Cal Date : 15-JUN-2024 16:41   Cal File: X061509.D
Als bottle: 13   QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

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	5.133	5.133	(1.000)	136227	50.0000	
2 Dichlorodifluoromethane	85	1.294	1.294	(0.252)	61785	42.7266	42.72
159 Dichlorofluoromethane	67	2.075	2.072	(0.404)	126319	44.5283	44.52
3 Chloromethane	50	1.448	1.448	(0.282)	93411	44.3695	44.36
4 Propionitrile	54	4.670	4.670	(0.910)	93957	510.307	510.30
5 Vinyl Chloride	62	1.535	1.532	(0.299)	85693	44.5632	44.56
6 Bromomethane	94	1.808	1.808	(0.352)	47993	46.1741	46.17
7 Chloroethane	64	1.895	1.895	(0.369)	53517	45.7972	45.79
8 Trichlorofluoromethane	101	2.113	2.110	(0.412)	109974	44.1650	44.16
9 Acrolein	56	2.519	2.519	(0.491)	3782	98.5359	98.53
10 Acetone	43	2.667	2.667	(0.520)	45957	96.7453	96.74
11 1,1-Dichloroethene	96	2.593	2.589	(0.505)	65023	46.4001	46.40
12 Isobutyl Alcohol	43	5.573	5.573	(1.086)	216526	955.253	955.25
13 Acetonitrile	39	2.962	2.959	(0.577)	99382	470.620	470.62
14 Allyl Chloride	41	2.956	2.959	(0.576)	207645	47.3636	47.36
15 Iodomethane	142	2.744	2.740	(0.535)	160798	90.6493	90.64
16 Acrylonitrile	53	3.380	3.371	(0.659)	46791	97.7013	97.70
17 Methylene Chloride	84	3.094	3.091	(0.603)	74608	46.2251	46.22
18 Methyl tert-butyl ether	73	3.380	3.377	(0.659)	177333	45.8395	45.83
19 Carbon Disulfide	76	2.795	2.795	(0.545)	383629	89.1120	89.11

20 trans-1,2-Dichloroethene	96	3.374	3.377 (0.657)	66371	45.5569	45.55
21 Vinyl Acetate	43	4.657	4.657 (0.907)	72230	93.5861	93.58

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061513A.D Page 2
Report Date: 15-Jul-2024 08:45

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
22	1,1-Dichloroethane	63	3.863	3.863	(0.753)	137106	42.8111	42.81
23	Chloroprene	53	3.965	3.966	(0.773)	112610	44.2631	44.26
24	2-Butanone	43	4.589	4.586	(0.894)	61809	95.5627	95.56
25	Methacrylonitrile	41	2.149	2.146	(0.419)	104812	46.1638	46.16
26	2,2-Dichloropropane	77	4.535	4.531	(0.883)	113593	41.7855	41.78
27	cis-1,2-Dichloroethene	96	4.544	4.544	(0.885)	75661	46.4828	46.48
28	Chloroform	83	4.901	4.901	(0.955)	133339	45.9129	45.91
29	Bromochloromethane	128	4.808	4.802	(0.937)	37284	47.0646	47.06
$ 30	Dibromofluoromethane	113	5.072	5.072	(0.988)	70019	48.1382	48.13
31	1,1,1-Trichloroethane	97	5.075	5.072	(0.989)	112999	44.1967	44.19
32	1,1-Dichloropropene	75	5.245	5.245	(0.896)	99095	44.4191	44.41
33	1,2-Dichloroethane	62	5.490	5.493	(0.938)	111939	45.3701	45.37
34	Carbon Tetrachloride	117	5.236	5.232	(0.895)	95671	42.5311	42.53
$ 35	1,2-Dichloroethane-d4	65	5.416	5.412	(1.055)	90411	46.5250	46.52
* 36	1,4-Difluorobenzene	114	5.853	5.853	(1.000)	227526	50.0000	
37	Benzene	78	5.457	5.457	(0.932)	276508	45.5396	45.53
38	Trichloroethene	130	6.088	6.088	(1.040)	71234	45.4414	45.44
39	Bromodichloromethane	83	6.570	6.570	(1.122)	102608	40.5073	40.50
40	Methyl Methacrylate	41	6.432	6.432	(1.253)	72561	49.7630	49.76
41	2-Chloroethylvinyl ether	63	6.853	6.856	(1.171)	62235	100.673	100.67(A)
42	1,2-Dichloropropane	63	6.309	6.309	(1.078)	80122	45.8656	45.86
43	2-Nitropropane	43	6.798	6.798	(1.324)	22639	46.3672	46.36
44	Dibromomethane	93	6.416	6.419	(1.096)	45856	45.9899	45.98
45	4-Methyl-2-Pentanone	43	7.126	7.126	(0.842)	151701	96.8892	96.88
46	cis-1,3-Dichloropropene	75	6.978	6.975	(1.192)	107051	42.9756	42.97
* 47	Chlorobenzene-d5	117	8.467	8.467	(1.000)	209133	50.0000	
$ 48	Toluene-d8	98	7.203	7.203	(0.851)	246619	48.7535	48.75
49	Ethyl Methacrylate	69	8.039	8.043	(1.374)	97275	48.5315	48.53
50	Toluene	91	7.264	7.264	(0.858)	289226	46.8348	46.83
51	trans-1,3-Dichloropropene	75	6.978	6.975	(1.192)	107051	42.9756	42.97
52	2-Hexanone	43	7.859	7.859	(0.928)	105118	99.2636	99.26
53	1,1,2-Trichloroethane	83	7.637	7.637	(0.902)	56629	48.7611	48.76
54	1,3-Dichloropropane	76	7.782	7.782	(0.919)	117938	47.2500	47.25
55	Dibromochloromethane	129	7.978	7.975	(0.942)	74336	43.3965	43.39
56	Tetrachloroethene	164	7.737	7.737	(0.914)	54881	46.3100	46.30
57	1,2-Dibromoethane	107	8.071	8.071	(0.953)	56824	46.0540	46.05
58	1-Chlorohexane	55	8.467	8.467	(1.447)	72236	45.7622	45.76
59	Chlorobenzene	112	8.493	8.493	(1.003)	189695	46.8996	46.89
60	1,1,1,2-Tetrachloroethane	131	8.563	8.563	(1.011)	65674	45.3115	45.31
61	Ethylbenzene	106	8.583	8.583	(1.014)	96847	46.3161	46.31
62	m,p-Xylenes	106	8.682	8.682	(1.025)	243915	93.1886	93.18
63	o-Xylene	106	9.023	9.023	(1.066)	117675	46.5592	46.55
64	Styrene	104	9.039	9.039	(1.068)	212390	47.5650	47.56
66	Bromoform	173	9.206	9.206	(1.087)	48677	45.0671	45.06
67	Isopropylbenzene	105	9.338	9.338	(1.103)	301177	45.9827	45.98
68	1,1,2,2-Tetrachloroethane	83	9.608	9.608	(0.919)	88012	47.9223	47.92
$ 69	4-Bromofluorobenzene	95	9.473	9.473	(1.119)	99134	48.9527	48.95
* 70	1,4-Dichlorobenzene-d4	152	10.457	10.457	(1.000)	109830	50.0000	
71	1,2,3-Trichloropropane	75	9.650	9.647	(0.923)	97296	46.6570	46.65
72	trans-1,4-Dichloro-2-butene	53	9.660	9.657	(1.141)	19704	43.2626	43.26
73	n-Propylbenzene	91	9.689	9.689	(0.927)	371370	45.3059	45.30
74	Bromobenzene	156	9.605	9.602	(0.919)	82413	46.2048	46.20

75	1,3,5-Trimethylbenzene	105	9.837	9.837 (0.941)	264058	44.7875	44.78
76	2-Chlorotoluene	91	9.766	9.766 (0.934)	228938	45.9649	45.96

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061513A.D Page 3
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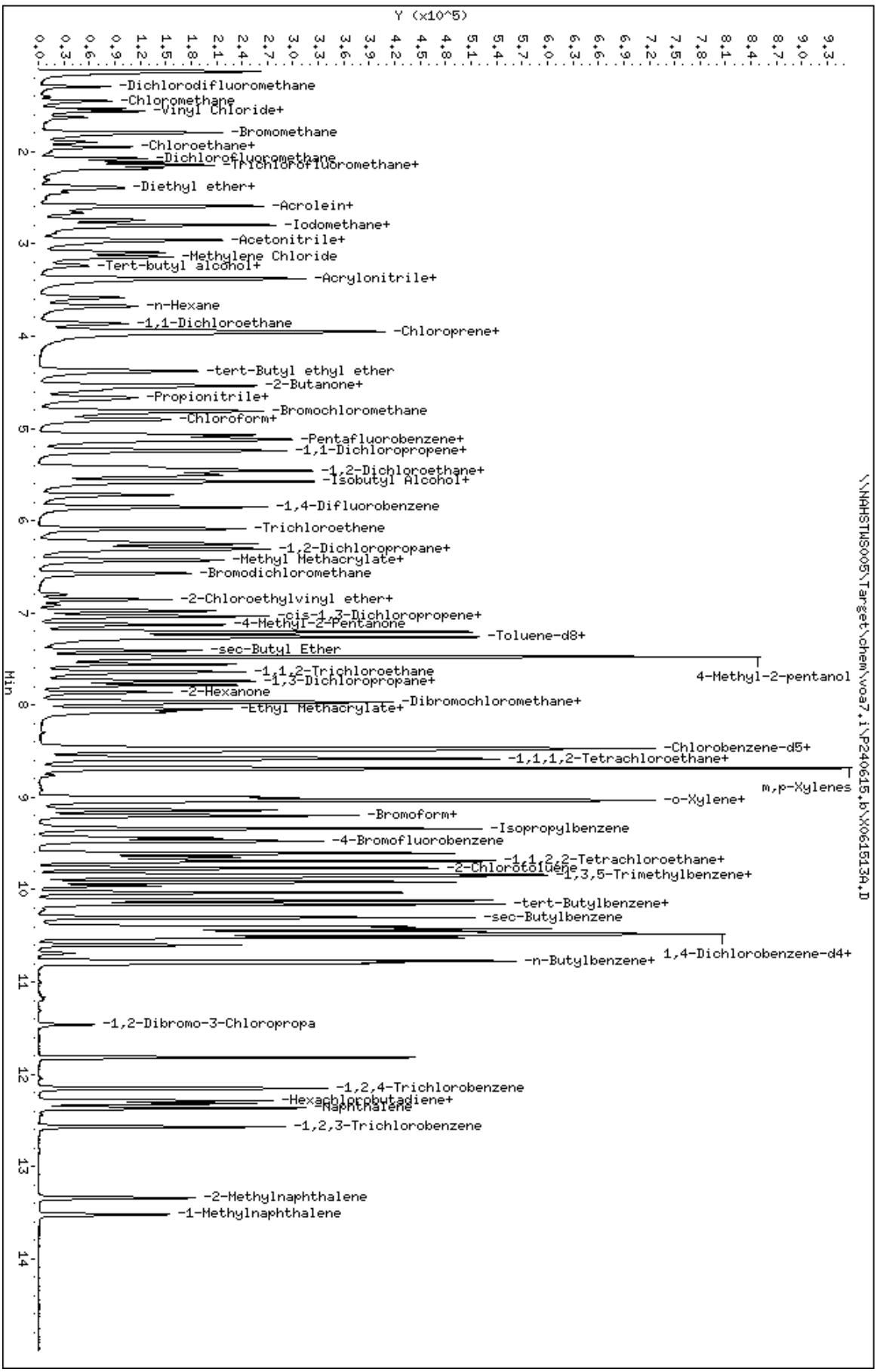
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
77	4-Chlorotoluene	91	9.859	9.859	(0.943)	268779	45.6093	45.60
78	tert-Butylbenzene	119	10.116	10.116	(0.967)	216656	44.8275	44.82
79	1,2,4-Trimethylbenzene	105	10.158	10.158	(0.971)	266199	45.6782	45.67
81	sec-Butylbenzene	105	10.303	10.303	(0.985)	303656	45.3800	45.38
82	p-Isopropyltoluene	119	10.425	10.425	(0.997)	273024	45.2872	45.28
83	1,3-Dichlorobenzene	146	10.403	10.403	(0.995)	152118	46.3046	46.30
84	1,4-Dichlorobenzene	146	10.476	10.477	(1.002)	155589	46.4376	46.43
87	n-Butylbenzene	91	10.772	10.772	(1.030)	254820	45.1503	45.15
88	1,2-Dichlorobenzene	146	10.795	10.798	(1.032)	145939	46.2420	46.24
89	1,2-Dibromo-3-Chloropropane	75	11.464	11.464	(1.096)	14627	45.0653	45.06
90	1,2,4-Trichlorobenzene	180	12.155	12.152	(1.162)	93890	45.1489	45.14
91	Hexachlorobutadiene	225	12.287	12.290	(1.175)	45122	45.3586	45.35
92	Naphthalene	128	12.367	12.370	(1.183)	210650	44.7113	44.71
93	1,2,3-Trichlorobenzene	182	12.570	12.570	(1.202)	75982	44.3047	44.30
135	1,4-Dioxane	88	6.448	6.448	(1.256)	11466	1041.15	1041.14(A)
146	Methyl acetate	43	2.667	2.667	(0.520)	47651	43.2314	43.23(TM)
138	Freon TF	101	2.589	2.593	(0.505)	61266	44.1610	44.16
139	Diethyl ether	59	2.377	2.377	(0.463)	49622	49.9661	49.96
140	1,3-Butadiene	54	1.564	1.560	(0.305)	39081	44.4127	44.41
141	Cyclohexane	56	5.113	5.107	(0.996)	106180	43.7732	43.77
147	Methylcyclohexane	83	6.252	6.248	(1.068)	102076	45.2295	45.22
132	n-Butanol	56	6.248	6.252	(1.217)	40920	943.348	943.34(TM)
131	Methyl Acrylate	55	4.689	4.686	(0.914)	74381	49.7563	49.75
133	Ethyl Acrylate	55	6.223	6.223	(1.212)	181619	47.3824	47.38
136	n-Hexane	57	3.673	3.673	(0.716)	73886	42.5663	42.56
142	Tetrahydrofuran	42	4.863	4.859	(0.947)	24144	95.0148	95.01
148	Tert-butyl alcohol	59	3.239	3.236	(0.631)	84515	840.666	840.66
149	Isopropyl alcohol	45	2.814	2.808	(0.548)	71559	1040.89	1040.89
151	4-Methyl-2-pentanol	45	7.473	7.473	(0.883)	523832	954.944	954.94
166	1,2,3-Trimethylbenzene	105	10.518	10.518	(1.006)	243835	43.1038	43.10
167	Ethanol	45	2.310	2.310	(0.450)	11845	1064.25	1064.24
172	tert-Butyl formate	59	3.239	3.236	(0.631)	84515	100.266	100.26
173	3,3-Dimethyl-1-butanol	57	8.042	8.043	(0.950)	134546	984.001	984.00
174	tert-Amyl methyl ether	73	5.580	5.576	(1.087)	199364	47.9235	47.92
175	tert-Butyl ethyl ether	59	4.377	4.377	(0.853)	215092	46.3058	46.30
157	2-Methylnaphthalene	142	13.341	13.341	(1.276)	86847	50.6476	50.64
156	Diisopropyl ether	45	3.949	3.949	(0.769)	255250	47.1858	47.18
171	1-Methylnaphthalene	142	13.525	13.521	(1.293)	73172	48.2645	48.26
130	Ethyl Acetate	43	3.946	3.943	(0.769)	437922	46.1611	46.16
176	tert-Amyl alcohol	59	5.509	5.509	(1.073)	81575	1013.35	1013.35(A)
160	Epichlorohydrin	57	6.914	6.914	(1.181)	18383	186.359	186.35
161	Butyl acrylate	55	8.997	8.997	(1.063)	170560	48.0336	48.03
182	Isobutylene	56	1.953	1.953	(0.381)	10388	46.0776	46.07(AM)
183	Isopropyl Acetate	43	5.573	5.573	(0.952)	216526	47.3702	47.37(A)
184	n-Amyl acetate	43	9.194	9.194	(1.086)	152210	44.3932	44.39(A)
185	Acetaldehyde	44	1.628	1.631	(0.317)	45485	207.176	207.17(AM)
186	n-Butyl acetate	43	7.969	7.965	(0.941)	129734	52.3703	52.37(A)
187	2-Etyhlhexyl Acrylate	55	12.319	12.319	(1.178)	75925	53.9246	53.92(A)
188	Tetrahydrothiophene	60	7.956	7.959	(0.940)	81426	49.2748	49.27(A)
189	sec-Butyl Ether	57	7.406	7.406	(0.875)	66955	47.9291	47.92(A)
190	Isoprene	39	2.396	2.400	(0.467)	18252	43.6481	43.64(AM)
191	2-Chloropropene	41	2.149	2.146	(0.419)	104812	44.7230	44.72(A)

M	94 1,2-Dichloroethylene (total)	96		142032	92.0397	92.03
M	95 Xylenes (total)	106		361590	139.748	139.74

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\P240615.b\X061513A.D
Date : 15-JUN-2024 18:35
Client ID: VSTD050
Sample Info: VSTD50;VSTD050;2;;ICV
Purge Volume: 5.0
Column phase: DB624

Instrument: voa7.i
Operator: AP
Column diameter: 0.18

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061514.D Page 1
Report Date: 12-Jul-2024 11:43

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061514.D
Lab Smp Id: VLCSW-240615 Client Smp ID: VLCSW-240615
Inj Date : 15-JUN-2024 18:58
Operator : AP Inst ID: voa7.i
Smp Info : VLCSW-240615;VLCSW-240615;3;;LCS
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240615.b\8260W.m
Meth Date : 12-Jul-2024 11:43 voa7.i Quant Type: ISTD
Cal Date : 15-JUN-2024 16:41 Cal File: X061509.D
Als bottle: 14 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

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	5.130	(1.000)	144011	50.0000	
2	Dichlorodifluoromethane	85	1.294	1.294	(0.252)	28250	18.2789	18.27
159	Dichlorofluoromethane	67	2.075	2.075	(0.405)	52112	17.3769	17.37
3	Chloromethane	50	1.451	1.448	(0.283)	43801	19.1346	19.13
4	Propionitrile	54	4.670	4.670	(0.910)	39272	195.835	195.83
5	Vinyl Chloride	62	1.535	1.535	(0.299)	38363	18.7931	18.79
6	Bromomethane	94	1.805	1.805	(0.352)	22247	19.4669	19.46
7	Chloroethane	64	1.895	1.895	(0.369)	23960	19.1559	19.15
8	Trichlorofluoromethane	101	2.110	2.114	(0.411)	48251	18.1190	18.11
9	Acrolein	56	2.519	2.512	(0.491)	1764	43.4749	43.47
10	Acetone	43	2.664	2.663	(0.519)	20131	36.5883	36.58
11	1,1-Dichloroethene	96	2.593	2.593	(0.505)	28468	19.3083	19.30
12	Isobutyl Alcohol	43	5.573	5.573	(1.086)	96059	390.067	390.06
13	Acetonitrile	39	2.956	2.959	(0.576)	41941	184.073	184.07
14	Allyl Chloride	41	2.956	2.959	(0.576)	91261	19.1311	19.13
15	Iodomethane	142	2.741	2.741	(0.534)	67683	38.4088	38.40
16	Acrylonitrile	53	3.381	3.377	(0.659)	19437	37.8292	37.82
17	Methylene Chloride	84	3.091	3.094	(0.603)	33820	18.7862	18.78
18	Methyl tert-butyl ether	73	3.377	3.377	(0.658)	76207	18.8054	18.80
19	Carbon Disulfide	76	2.795	2.795	(0.545)	174585	38.0329	38.03

20 trans-1,2-Dichloroethene	96	3.381	3.377 (0.659)	27373	17.6089	17.60
21 Vinyl Acetate	43	4.660	4.657 (0.908)	35920	42.2382	42.23

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061514.D Page 2
Report Date: 12-Jul-2024 11:43

	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)	60542	17.8823	17.88
23	Chloroprene	53	3.966	3.966	(0.773)	48738	18.1020	18.10
24	2-Butanone	43	4.589	4.586	(0.895)	28853	39.8083	39.80
25	Methacrylonitrile	41	2.149	2.149	(0.419)	41981	17.4908	17.49
26	2,2-Dichloropropane	77	4.532	4.535	(0.883)	50324	17.5112	17.51
27	cis-1,2-Dichloroethene	96	4.544	4.544	(0.886)	33180	18.9714	18.97
28	Chloroform	83	4.901	4.901	(0.956)	59404	18.8866	18.88
29	Bromochloromethane	128	4.805	4.808	(0.937)	16661	19.6563	19.65
$ 30	Dibromofluoromethane	113	5.072	5.072	(0.989)	74346	48.3561	48.35
31	1,1,1-Trichloroethane	97	5.072	5.072	(0.989)	50702	18.7552	18.75
32	1,1-Dichloropropene	75	5.245	5.245	(0.896)	44398	19.2087	19.20
33	1,2-Dichloroethane	62	5.493	5.490	(0.938)	48923	18.8153	18.81
34	Carbon Tetrachloride	117	5.239	5.236	(0.895)	41442	18.2553	18.25
$ 35	1,2-Dichloroethane-d4	65	5.416	5.416	(1.056)	98398	47.9400	47.94
* 36	1,4-Difluorobenzene	114	5.853	5.853	(1.000)	236601	50.0000	
37	Benzene	78	5.458	5.457	(0.932)	125449	19.5953	19.59
38	Trichloroethene	130	6.088	6.088	(1.040)	31135	19.0161	19.01
39	Bromodichloromethane	83	6.570	6.570	(1.122)	45353	17.2176	17.21
40	Methyl Methacrylate	41	6.432	6.432	(1.254)	31000	19.0548	19.05
41	2-Chloroethylvinyl ether	63	6.853	6.856	(1.171)	26549	41.4266	41.42
42	1,2-Dichloropropane	63	6.313	6.310	(1.079)	35252	19.1604	19.16
43	2-Nitropropane	43	6.798	6.798	(1.325)	9692	18.9822	18.98
44	Dibromomethane	93	6.416	6.419	(1.096)	19871	19.1397	19.13
45	4-Methyl-2-Pentanone	43	7.130	7.126	(0.842)	68032	41.3142	41.31
46	cis-1,3-Dichloropropene	75	6.975	6.978	(1.192)	46535	18.2129	18.21
* 47	Chlorobenzene-d5	117	8.467	8.467	(1.000)	214543	50.0000	
$ 48	Toluene-d8	98	7.207	7.207	(0.851)	271130	52.3425	52.34
49	Ethyl Methacrylate	69	8.040	8.039	(1.374)	39899	19.6602	19.66
50	Toluene	91	7.265	7.265	(0.858)	130329	20.2180	20.21
51	trans-1,3-Dichloropropene	75	6.975	6.978	(1.192)	46535	18.2129	18.21
52	2-Hexanone	43	7.859	7.863	(0.928)	45121	39.7983	39.79
53	1,1,2-Trichloroethane	83	7.641	7.641	(0.902)	24755	20.2860	20.28
54	1,3-Dichloropropane	76	7.782	7.782	(0.919)	52285	19.9865	19.98
55	Dibromochloromethane	129	7.975	7.975	(0.942)	32267	18.3621	18.36
56	Tetrachloroethene	164	7.740	7.737	(0.914)	24089	19.7694	19.76
57	1,2-Dibromoethane	107	8.075	8.075	(0.954)	25288	19.4612	19.46
58	1-Chlorohexane	55	8.470	8.470	(1.447)	33865	19.3418	19.34
59	Chlorobenzene	112	8.493	8.493	(1.003)	84241	19.9202	19.92
60	1,1,1,2-Tetrachloroethane	131	8.564	8.563	(1.011)	28939	19.7280	19.72
61	Ethylbenzene	106	8.583	8.583	(1.014)	43205	19.8417	19.84
62	m,p-Xylenes	106	8.683	8.686	(1.025)	110589	40.5713	40.57
63	o-Xylene	106	9.023	9.023	(1.066)	53821	20.3451	20.34
64	Styrene	104	9.036	9.039	(1.067)	94467	20.2726	20.27
66	Bromoform	173	9.203	9.207	(1.087)	20500	18.5011	18.50
67	Isopropylbenzene	105	9.339	9.338	(1.103)	135790	20.0284	20.02
68	1,1,2,2-Tetrachloroethane	83	9.612	9.608	(0.919)	38490	20.8659	20.86
$ 69	4-Bromofluorobenzene	95	9.474	9.477	(1.119)	106150	51.1888	51.18
* 70	1,4-Dichlorobenzene-d4	152	10.457	10.457	(1.000)	108099	50.0000	
71	1,2,3-Trichloropropane	75	9.650	9.650	(0.923)	41820	20.0369	20.03
72	trans-1,4-Dichloro-2-butene	53	9.657	9.660	(1.140)	8615	18.5376	18.53
73	n-Propylbenzene	91	9.689	9.692	(0.927)	164119	20.3505	20.35
74	Bromobenzene	156	9.605	9.605	(0.919)	36640	20.7584	20.75

75	1,3,5-Trimethylbenzene	105	9.840	9.840 (0.941)	117380	20.3430	20.34
76	2-Chlorotoluene	91	9.766	9.766 (0.934)	102473	20.6459	20.64

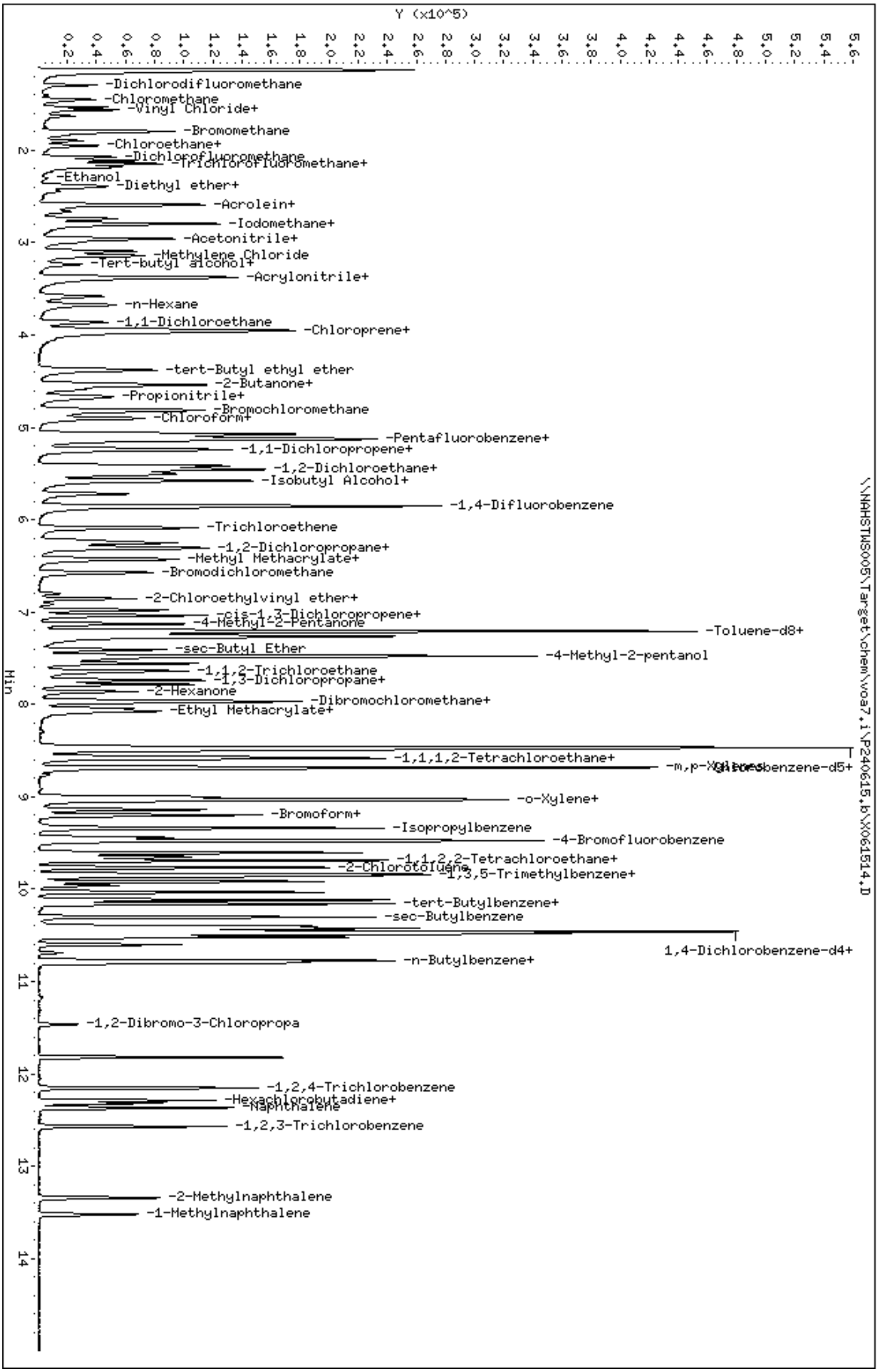
Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061514.D Page 3
Report Date: 12-Jul-2024 11:43

	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)	120085	20.5568	20.55
78	tert-Butylbenzene	119	10.117	10.116	(0.967)	98137	20.4980	20.49
79	1,2,4-Trimethylbenzene	105	10.158	10.158	(0.971)	118934	20.6594	20.65
81	sec-Butylbenzene	105	10.303	10.303	(0.985)	137297	20.9483	20.94
82	p-Isopropyltoluene	119	10.425	10.428	(0.997)	120155	20.3476	20.34
83	1,3-Dichlorobenzene	146	10.403	10.403	(0.995)	67374	20.7636	20.76
84	1,4-Dichlorobenzene	146	10.477	10.480	(1.002)	68519	20.5307	20.53
87	n-Butylbenzene	91	10.773	10.776	(1.030)	112890	20.3076	20.30
88	1,2-Dichlorobenzene	146	10.798	10.798	(1.033)	63623	20.3693	20.36
89	1,2-Dibromo-3-Chloropropane	75	11.464	11.464	(1.096)	6132	19.1950	19.19
90	1,2,4-Trichlorobenzene	180	12.155	12.155	(1.162)	41372	20.6648	20.66
91	Hexachlorobutadiene	225	12.290	12.287	(1.175)	20213	21.0383	21.03
92	Naphthalene	128	12.367	12.370	(1.183)	91442	19.7197	19.71
93	1,2,3-Trichlorobenzene	182	12.570	12.570	(1.202)	33736	19.9863	19.98
135	1,4-Dioxane	88	6.451	6.445	(1.258)	5184	436.859	436.85(A)
146	Methyl acetate	43	2.664	2.991	(0.519)	20193	16.7670	16.76(M)
138	Freon TF	101	2.596	2.589	(0.506)	26831	18.4699	18.46
139	Diethyl ether	59	2.381	2.380	(0.464)	20302	19.3378	19.33
140	1,3-Butadiene	54	1.564	1.564	(0.305)	17018	18.7287	18.72
141	Cyclohexane	56	5.110	5.113	(0.996)	49080	18.7691	18.76
147	Methylcyclohexane	83	6.252	6.252	(1.068)	36803	17.0055	17.00
132	n-Butanol	56	6.249	6.248	(1.218)	13256	289.079	289.07
131	Methyl Acrylate	55	4.686	4.689	(0.914)	32891	20.0639	20.06
133	Ethyl Acrylate	55	6.220	6.223	(1.212)	74143	18.2976	18.29
136	n-Hexane	57	3.676	3.676	(0.717)	33268	18.5489	18.54
142	Tetrahydrofuran	42	4.860	4.859	(0.947)	10135	38.6185	38.61
148	Tert-butyl alcohol	59	3.239	3.236	(0.631)	39391	370.642	370.64
149	Isopropyl alcohol	45	2.815	2.815	(0.549)	31824	420.229	420.22
151	4-Methyl-2-pentanol	45	7.474	7.477	(0.883)	222293	391.298	391.29
166	1,2,3-Trimethylbenzene	105	10.519	10.518	(1.006)	100904	18.1229	18.12
167	Ethanol	45	2.303	2.316	(0.449)	5124	401.978	401.97
172	tert-Butyl formate	59	3.239	3.236	(0.631)	39391	42.8187	42.81
173	3,3-Dimethyl-1-butanol	57	8.043	8.039	(0.950)	58237	426.816	426.81
174	tert-Amyl methyl ether	73	5.580	5.580	(1.088)	86189	19.4932	19.49
175	tert-Butyl ethyl ether	59	4.381	4.377	(0.854)	93442	19.0292	19.02
157	2-Methylnaphthalene	142	13.342	13.338	(1.276)	39247	23.2547	23.25
156	Diisopropyl ether	45	3.950	3.946	(0.770)	105115	18.3814	18.38
171	1-Methylnaphthalene	142	13.522	13.521	(1.293)	33071	22.1630	22.16
130	Ethyl Acetate	43	3.946	3.946	(0.769)	184135	18.4458	18.44
176	tert-Amyl alcohol	59	5.512	5.515	(1.075)	36184	410.780	410.77(A)
160	Epichlorohydrin	57	6.914	6.914	(1.181)	7298	71.9767	71.97
161	Butyl acrylate	55	8.998	8.998	(1.063)	69916	19.3425	19.34
182	Isobutylene	56	1.953	1.950	(0.381)	3854	16.9133	16.91(AM)
183	Isopropyl Acetate	43	5.573	5.573	(0.952)	96059	19.8633	19.86(A)
184	n-Amyl acetate	43	9.197	9.194	(1.086)	65205	18.8586	18.85(A)
185	Acetaldehyde	44	1.628	1.628	(0.317)	31161	132.751	132.75(A)
186	n-Butyl acetate	43	7.969	7.969	(0.941)	55270	21.2371	21.23(A)
187	2-Etyhlhexyl Acrylate	55	12.319	12.319	(1.178)	26113	21.8375	21.83(A)
188	Tetrahydrothiophene	60	7.956	7.959	(0.940)	34600	20.3132	20.31(A)
189	sec-Butyl Ether	57	7.406	7.406	(0.875)	31766	20.8307	20.83(A)
190	Isoprene	39	2.400	2.397	(0.468)	7963	18.2275	18.22(A)
191	2-Chloropropene	41	2.149	2.149	(0.419)	41981	16.9449	16.94(A)

M	94 1,2-Dichloroethylene (total)	96		60553	36.5803	36.58
M	95 Xylenes (total)	106		164410	60.9164	60.91

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-240615;VLCSW-240615;3;;LCS
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Column phase: DB624

Instrument: voa7,i
Operator: AP
Column diameter: 0.18

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Inj Date : 15-JUN-2024 18:58
InstruID : voa7.i
LabSampID : VLCSW-240615

Methyl acetate (79-20-9)

Reason Code:

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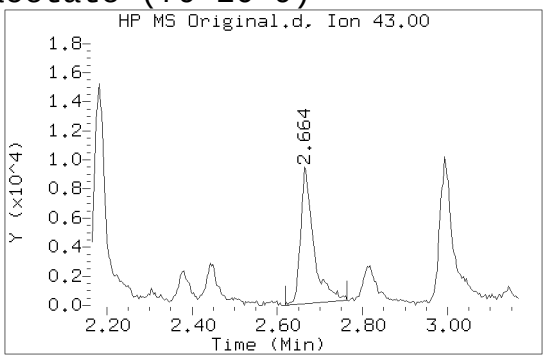

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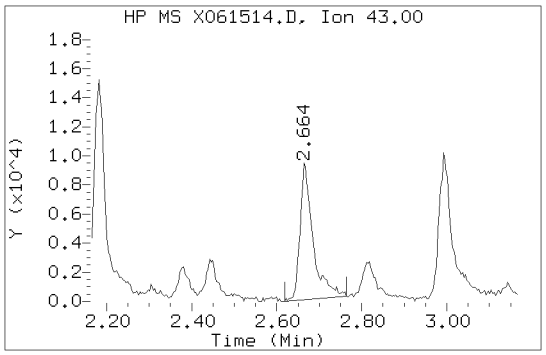

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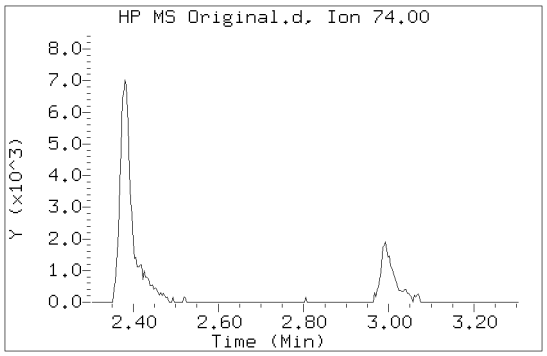

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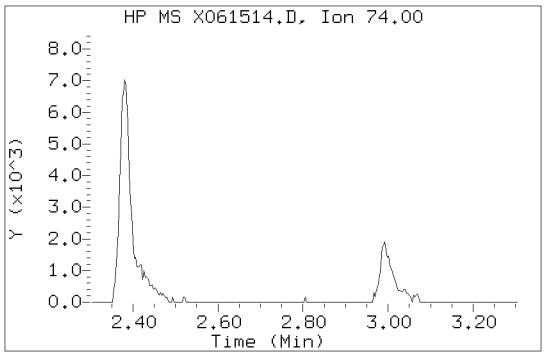

Isobutylene (115-11-7)

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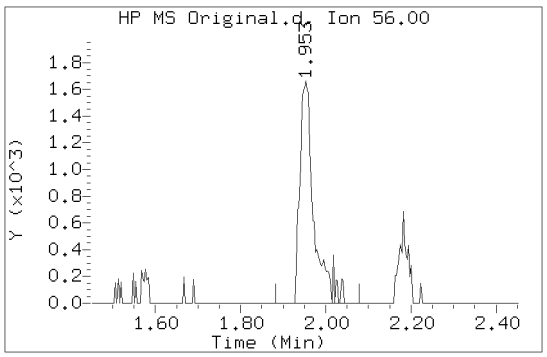

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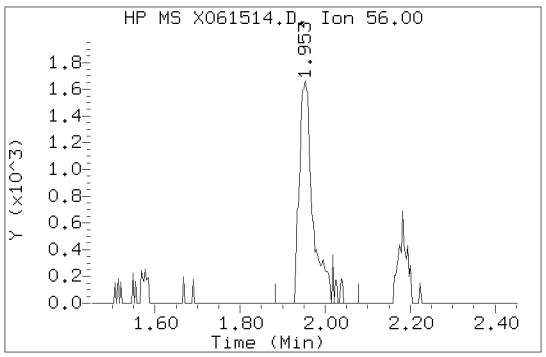

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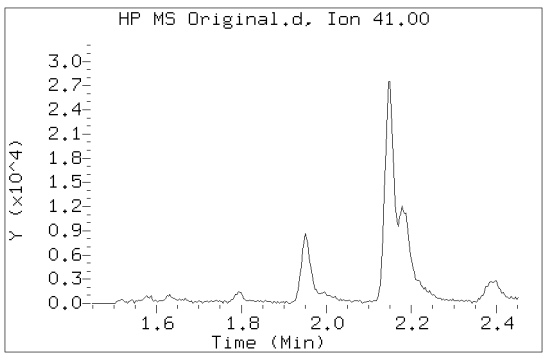

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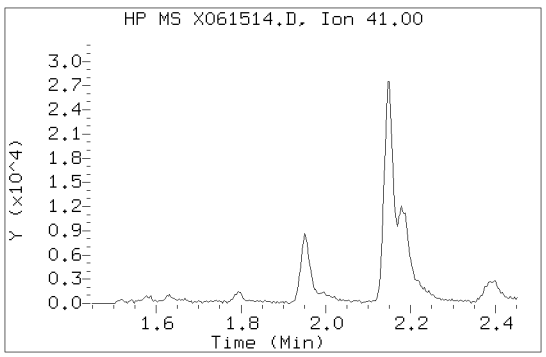

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Isobutylene (115-11-7)

Reason Code:

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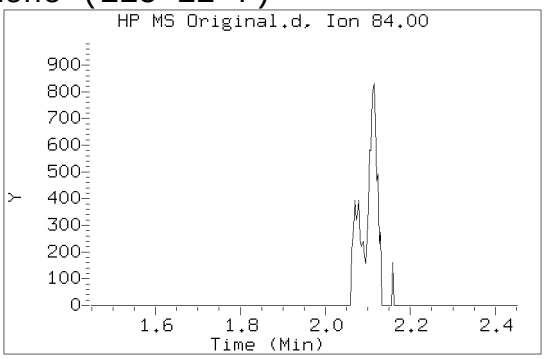

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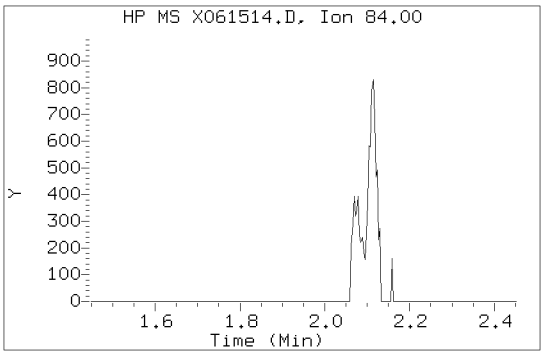

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Report Date: 12-Jul-2024 11:38

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061515.D
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Inj Date : 15-JUN-2024 19:21
Operator : AP Inst ID: voa7.i
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Misc Info : HS220328V7;WATER;0;1;
Comment   :
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Cal Date : 15-JUN-2024 17:04 Cal File: X061510.D
Als bottle: 14 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

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	5.133	(1.000)	134840	50.0000	
2 Dichlorodifluoromethane	85	1.297	1.294	(0.253)	27267	18.8538	18.85
159 Dichlorofluoromethane	67	2.075	2.075	(0.405)	51945	18.4993	18.49
3 Chloromethane	50	1.451	1.448	(0.283)	40936	19.0975	19.09
4 Propionitrile	54	4.670	4.670	(0.910)	40151	214.738	214.73
5 Vinyl Chloride	62	1.535	1.535	(0.299)	36731	19.2205	19.22
6 Bromomethane	94	1.808	1.808	(0.353)	21849	20.4869	20.48
7 Chloroethane	64	1.898	1.895	(0.370)	23177	19.8039	19.80
8 Trichlorofluoromethane	101	2.114	2.113	(0.412)	48409	19.4405	19.44
9 Acrolein	56	2.509	2.519	(0.489)	1898	49.9590	49.95
10 Acetone	43	2.667	2.667	(0.520)	21500	42.5747	42.57
11 1,1-Dichloroethene	96	2.589	2.593	(0.505)	27396	19.8407	19.84
12 Isobutyl Alcohol	43	5.573	5.573	(1.086)	97366	423.803	423.80
13 Acetonitrile	39	2.956	2.962	(0.576)	42300	198.764	198.76
14 Allyl Chloride	41	2.959	2.956	(0.577)	89248	20.0242	20.02
15 Iodomethane	142	2.741	2.744	(0.534)	66808	40.2823	40.28
16 Acrylonitrile	53	3.380	3.380	(0.659)	20957	43.7020	43.70
17 Methylene Chloride	84	3.094	3.094	(0.603)	33893	20.2346	20.23
18 Methyl tert-butyl ether	73	3.380	3.380	(0.659)	74807	19.7015	19.70
19 Carbon Disulfide	76	2.795	2.795	(0.545)	165778	38.5787	38.57

20 trans-1,2-Dichloroethene	96	3.374	3.374 (0.658)	28106	19.3362	19.33
21 Vinyl Acetate	43	4.657	4.657 (0.908)	35545	44.8319	44.83

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061515.D Page 2
Report Date: 12-Jul-2024 11:38

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
22	1,1-Dichloroethane	63	3.863	3.863	(0.753)	57588	18.1667	18.16
23	Chloroprene	53	3.966	3.965	(0.773)	48078	19.0732	19.07
24	2-Butanone	43	4.589	4.589	(0.895)	28578	42.3581	42.35
25	Methacrylonitrile	41	2.149	2.149	(0.419)	44043	19.5980	19.59
26	2,2-Dichloropropane	77	4.531	4.535	(0.883)	48026	17.8482	17.84
27	cis-1,2-Dichloroethene	96	4.544	4.544	(0.886)	32448	19.8384	19.83
28	Chloroform	83	4.908	4.901	(0.957)	58032	19.7399	19.73
29	Bromochloromethane	128	4.805	4.808	(0.937)	15873	20.0076	20.00
$ 30	Dibromofluoromethane	113	5.072	5.072	(0.989)	73445	51.0926	51.09
31	1,1,1-Trichloroethane	97	5.072	5.075	(0.989)	47956	18.9461	18.94
32	1,1-Dichloropropene	75	5.245	5.245	(0.896)	42717	19.2075	19.20
33	1,2-Dichloroethane	62	5.493	5.490	(0.938)	48611	19.4439	19.44
34	Carbon Tetrachloride	117	5.232	5.236	(0.894)	39781	18.2142	18.21
$ 35	1,2-Dichloroethane-d4	65	5.416	5.416	(1.056)	98527	51.3704	51.37
* 36	1,4-Difluorobenzene	114	5.853	5.853	(1.000)	227658	50.0000	
37	Benzene	78	5.457	5.457	(0.932)	120397	19.5437	19.54
38	Trichloroethene	130	6.088	6.088	(1.040)	30603	19.4285	19.42
39	Bromodichloromethane	83	6.570	6.570	(1.122)	44516	17.5637	17.56
40	Methyl Methacrylate	41	6.432	6.432	(1.254)	31550	20.8659	20.86
41	2-Chloroethylvinyl ether	63	6.856	6.853	(1.171)	26772	43.4523	43.45
42	1,2-Dichloropropane	63	6.306	6.309	(1.077)	34244	19.3478	19.34
43	2-Nitropropane	43	6.801	6.798	(1.326)	9991	20.8639	20.86
44	Dibromomethane	93	6.416	6.416	(1.096)	19298	19.3184	19.31
45	4-Methyl-2-Pentanone	43	7.126	7.126	(0.842)	68888	43.4395	43.43
46	cis-1,3-Dichloropropene	75	6.975	6.978	(1.192)	45522	18.5092	18.50
* 47	Chlorobenzene-d5	117	8.467	8.467	(1.000)	207048	50.0000	
$ 48	Toluene-d8	98	7.207	7.203	(0.851)	262400	52.4946	52.49
49	Ethyl Methacrylate	69	8.043	8.039	(1.374)	40158	20.5480	20.54
50	Toluene	91	7.264	7.264	(0.858)	125366	20.1501	20.15
51	trans-1,3-Dichloropropene	75	6.975	6.978	(1.192)	45522	18.5092	18.50
52	2-Hexanone	43	7.862	7.859	(0.929)	44594	40.8292	40.82
53	1,1,2-Trichloroethane	83	7.637	7.637	(0.902)	24745	21.0425	21.04
54	1,3-Dichloropropane	76	7.782	7.782	(0.919)	51070	20.2379	20.23
55	Dibromochloromethane	129	7.975	7.978	(0.942)	31980	18.8576	18.85
56	Tetrachloroethene	164	7.737	7.737	(0.914)	23605	20.0747	20.07
57	1,2-Dibromoethane	107	8.071	8.071	(0.953)	25297	20.2063	20.20
58	1-Chlorohexane	55	8.470	8.467	(1.447)	32597	19.3498	19.34
59	Chlorobenzene	112	8.493	8.493	(1.003)	82669	20.2675	20.26
60	1,1,1,2-Tetrachloroethane	131	8.563	8.563	(1.011)	27860	19.6811	19.68
61	Ethylbenzene	106	8.583	8.583	(1.014)	42631	20.2987	20.29
62	m,p-Xylenes	106	8.682	8.682	(1.025)	107444	40.8518	40.85
63	o-Xylene	106	9.023	9.023	(1.066)	52289	20.4865	20.48
64	Styrene	104	9.039	9.039	(1.068)	92782	20.6427	20.64
66	Bromoform	173	9.203	9.206	(1.087)	20200	18.8903	18.89
67	Isopropylbenzene	105	9.338	9.338	(1.103)	132483	20.2515	20.25
68	1,1,2,2-Tetrachloroethane	83	9.608	9.608	(0.919)	37901	21.5039	21.50
$ 69	4-Bromofluorobenzene	95	9.473	9.473	(1.119)	103767	51.8788	51.87
* 70	1,4-Dichlorobenzene-d4	152	10.457	10.457	(1.000)	103396	50.0000	
71	1,2,3-Trichloropropane	75	9.647	9.650	(0.923)	42171	21.1567	21.15
72	trans-1,4-Dichloro-2-butene	53	9.660	9.660	(1.141)	8723	19.4410	19.44
73	n-Propylbenzene	91	9.689	9.689	(0.927)	157230	20.3831	20.38
74	Bromobenzene	156	9.605	9.605	(0.919)	35547	21.0582	21.05

75	1,3,5-Trimethylbenzene	105	9.840	9.837 (0.941)	114896	20.8133	20.81
76	2-Chlorotoluene	91	9.766	9.766 (0.934)	97432	20.5204	20.52

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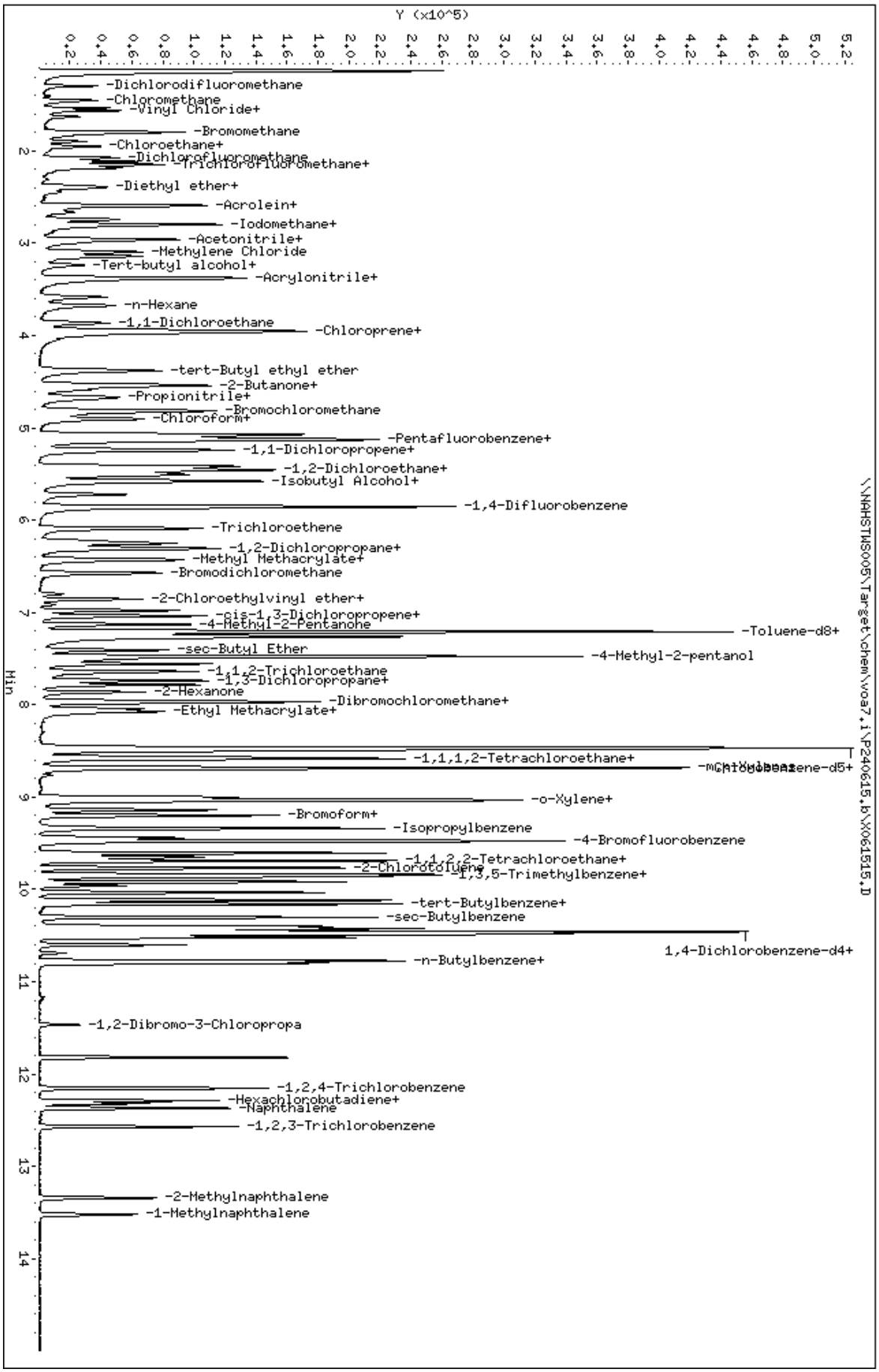
Report Date: 12-Jul-2024 11:38

	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)	116057	20.7738	20.77
78	tert-Butylbenzene	119	10.116	10.116	(0.967)	96071	20.9850	20.98
79	1,2,4-Trimethylbenzene	105	10.158	10.158	(0.971)	115153	20.9141	20.91
81	sec-Butylbenzene	105	10.303	10.303	(0.985)	132280	21.0995	21.09
82	p-Isopropyltoluene	119	10.425	10.425	(0.997)	116098	20.5531	20.55
83	1,3-Dichlorobenzene	146	10.403	10.403	(0.995)	64985	20.9394	20.93
84	1,4-Dichlorobenzene	146	10.480	10.476	(1.002)	67242	21.0761	21.07
87	n-Butylbenzene	91	10.772	10.772	(1.030)	108455	20.3973	20.39
88	1,2-Dichlorobenzene	146	10.798	10.795	(1.033)	62476	20.9173	20.91
89	1,2-Dibromo-3-Chloropropane	75	11.464	11.464	(1.096)	5863	19.1878	19.18
90	1,2,4-Trichlorobenzene	180	12.155	12.155	(1.162)	39069	20.4125	20.41
91	Hexachlorobutadiene	225	12.290	12.287	(1.175)	19161	20.8569	20.85
92	Naphthalene	128	12.370	12.367	(1.183)	87649	19.7615	19.76
93	1,2,3-Trichlorobenzene	182	12.570	12.570	(1.202)	31857	19.7315	19.73
135	1,4-Dioxane	88	6.448	6.448	(1.257)	5318	480.039	480.03(A)
146	Methyl acetate	43	2.667	2.667	(0.520)	20122	17.9048	17.90(M)
138	Freon TF	101	2.596	2.589	(0.506)	26261	19.2934	19.29
139	Diethyl ether	59	2.380	2.377	(0.464)	20833	21.1932	21.19
140	1,3-Butadiene	54	1.564	1.564	(0.305)	13841	16.3654	16.36
141	Cyclohexane	56	5.110	5.113	(0.996)	46419	18.9655	18.96
147	Methylcyclohexane	83	6.252	6.252	(1.068)	34193	16.4899	16.48
132	n-Butanol	56	6.252	6.248	(1.219)	12655	294.743	294.74
131	Methyl Acrylate	55	4.689	4.689	(0.914)	32942	21.5515	21.55
133	Ethyl Acrylate	55	6.223	6.223	(1.213)	72293	19.0544	19.05
136	n-Hexane	57	3.676	3.673	(0.717)	30241	18.0293	18.02
142	Tetrahydrofuran	42	4.859	4.863	(0.947)	10700	43.3562	43.35
148	Tert-butyl alcohol	59	3.239	3.239	(0.631)	39128	393.207	393.20
149	Isopropyl alcohol	45	2.814	2.814	(0.549)	33066	469.671	469.67
151	4-Methyl-2-pentanol	45	7.473	7.473	(0.883)	224457	409.704	409.70
166	1,2,3-Trimethylbenzene	105	10.518	10.518	(1.006)	97930	18.3888	18.38
167	Ethanol	45	2.310	2.310	(0.450)	5700	485.417	485.41
172	tert-Butyl formate	59	3.239	3.239	(0.631)	39128	45.5767	45.57
173	3,3-Dimethyl-1-butanol	57	8.043	8.042	(0.950)	56991	432.654	432.65
174	tert-Amyl methyl ether	73	5.580	5.580	(1.088)	85176	20.5842	20.58
175	tert-Butyl ethyl ether	59	4.380	4.377	(0.854)	90661	19.7186	19.71
157	2-Methylnaphthalene	142	13.345	13.341	(1.276)	35676	22.1003	22.10
156	Diisopropyl ether	45	3.953	3.949	(0.771)	103488	19.3277	19.32
171	1-Methylnaphthalene	142	13.521	13.525	(1.293)	30584	21.4286	21.42
130	Ethyl Acetate	43	3.946	3.946	(0.769)	186591	19.9515	19.95
176	tert-Amyl alcohol	59	5.512	5.509	(1.075)	35988	437.887	437.88(A)
160	Epichlorohydrin	57	6.914	6.914	(1.181)	7664	78.4329	78.43
161	Butyl acrylate	55	8.997	8.997	(1.063)	71545	20.4947	20.49
182	Isobutylene	56	1.950	1.953	(0.380)	3609	16.9152	16.91(AM)
183	Isopropyl Acetate	43	5.573	5.573	(0.952)	97366	20.9567	20.95(A)
184	n-Amyl acetate	43	9.194	9.194	(1.086)	65002	19.4623	19.46(A)
185	Acetaldehyde	44	1.628	1.628	(0.317)	22177	99.8741	99.87(A)
186	n-Butyl acetate	43	7.969	7.969	(0.941)	56338	22.4802	22.48(A)
187	2-Etyhlhexyl Acrylate	55	12.316	12.319	(1.178)	21422	19.2717	19.27(A)
188	Tetrahydrothiophene	60	7.956	7.956	(0.940)	34462	20.9699	20.96(A)
189	sec-Butyl Ether	57	7.409	7.406	(0.875)	31338	21.3492	21.34(A)
190	Isoprene	39	2.403	2.396	(0.469)	9736	23.6903	23.69(A)
191	2-Chloropropene	41	2.149	2.149	(0.419)	44043	18.9863	18.98(A)

M	94 1,2-Dichloroethylene (total)	96		60554	39.1746	39.17
M	95 Xylenes (total)	106		159733	61.3383	61.33

QC Flag Legend

A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.



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Date : 15-JUN-2024 19:21
Client ID: VLCSDW-240615
Sample Info: VLCSDW-240615;VLCSDW-240615;3;;LCSD
Purge Volume: 5.0
Column phase: DB624

Instrument: voa7.i
Operator: AP
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061515.D
Inj Date : 15-JUN-2024 19:21
InstruID : voa7.i
LabSampID : VLCSDW-240615

Methyl acetate (79-20-9)

Reason Code:

BEFORE
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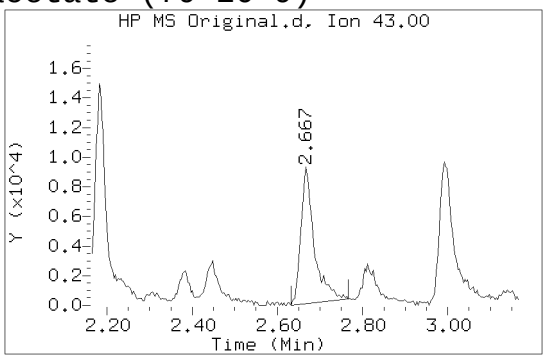
43
AREA
20122
HEIGHT
9240
12-Jul-2024
11:38
s
zaid



AFTER
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12-Jul-2024
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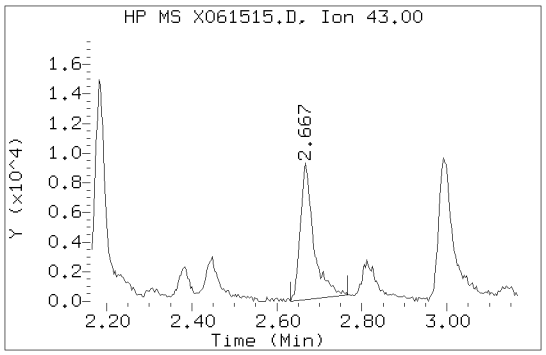
zaid



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12-Jul-2024
11:38
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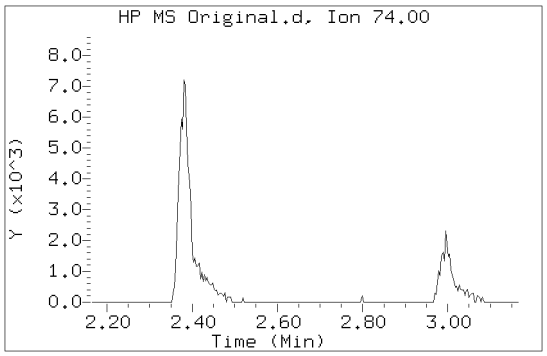

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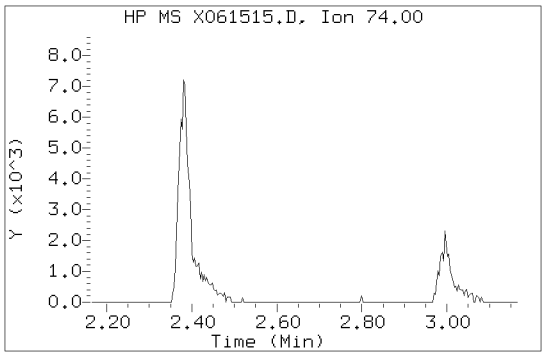

Isobutylene (115-11-7)

Reason Code:

BEFORE
MASS
56
AREA
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HEIGHT
1898
12-Jul-2024
11:38
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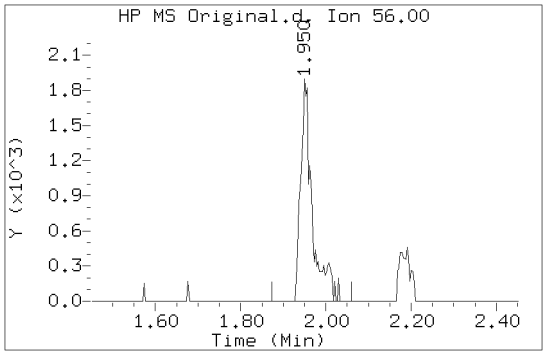
zaid



AFTER
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12-Jul-2024
11:38
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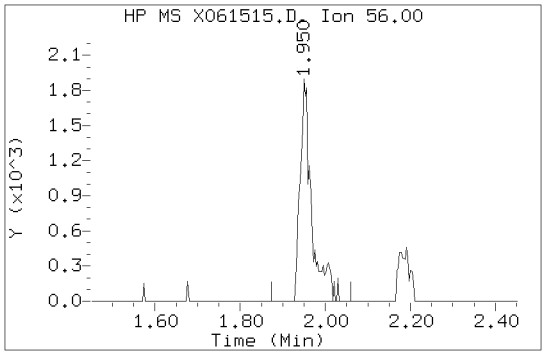

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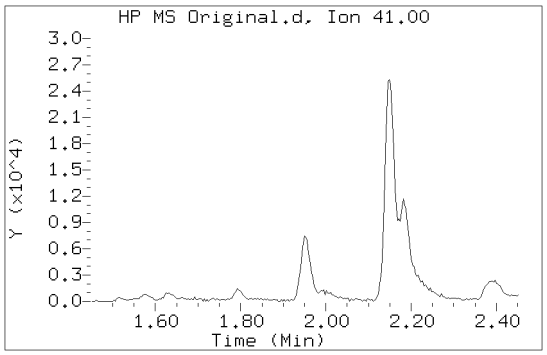

AFTER
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12-Jul-2024
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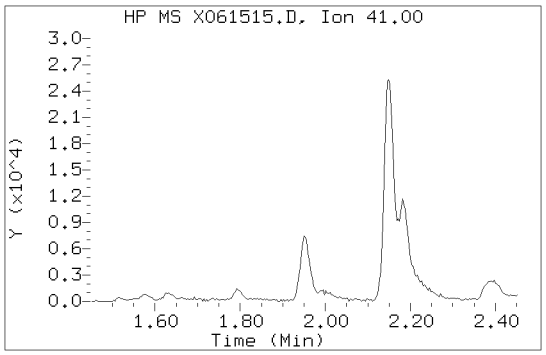
zaid



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Inj Date : 15-JUN-2024 19:21
InstruID : voa7.i
LabSampID : VLCSDW-240615

Isobutylene (115-11-7)

Reason Code:

BEFORE

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HEIGHT
0
12-Jul-2024
11:38
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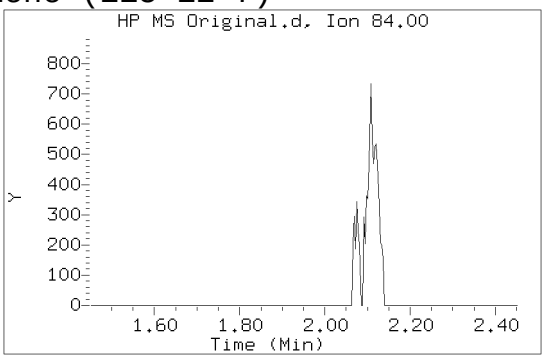
zaid



AFTER

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12-Jul-2024
11:38
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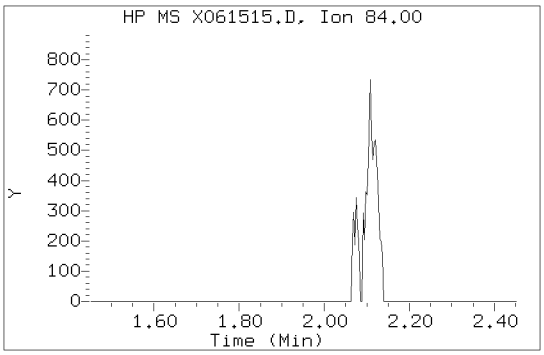


Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061517.D Page 1
Report Date: 12-Jul-2024 11:39

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061517.D
Lab Smp Id: VBLKW-240615 Client Smp ID: VBLKW-240615
Inj Date : 15-JUN-2024 20:07
Operator : AP Inst ID: voa7.i
Smp Info : VBLKW-240615;VBLKW-240615;3;;BLANK
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240615.b\8260W.m
Meth Date : 12-Jul-2024 11:38 voa7.i Quant Type: ISTD
Cal Date : 15-JUN-2024 17:04 Cal File: X061510.D
Als bottle: 16 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

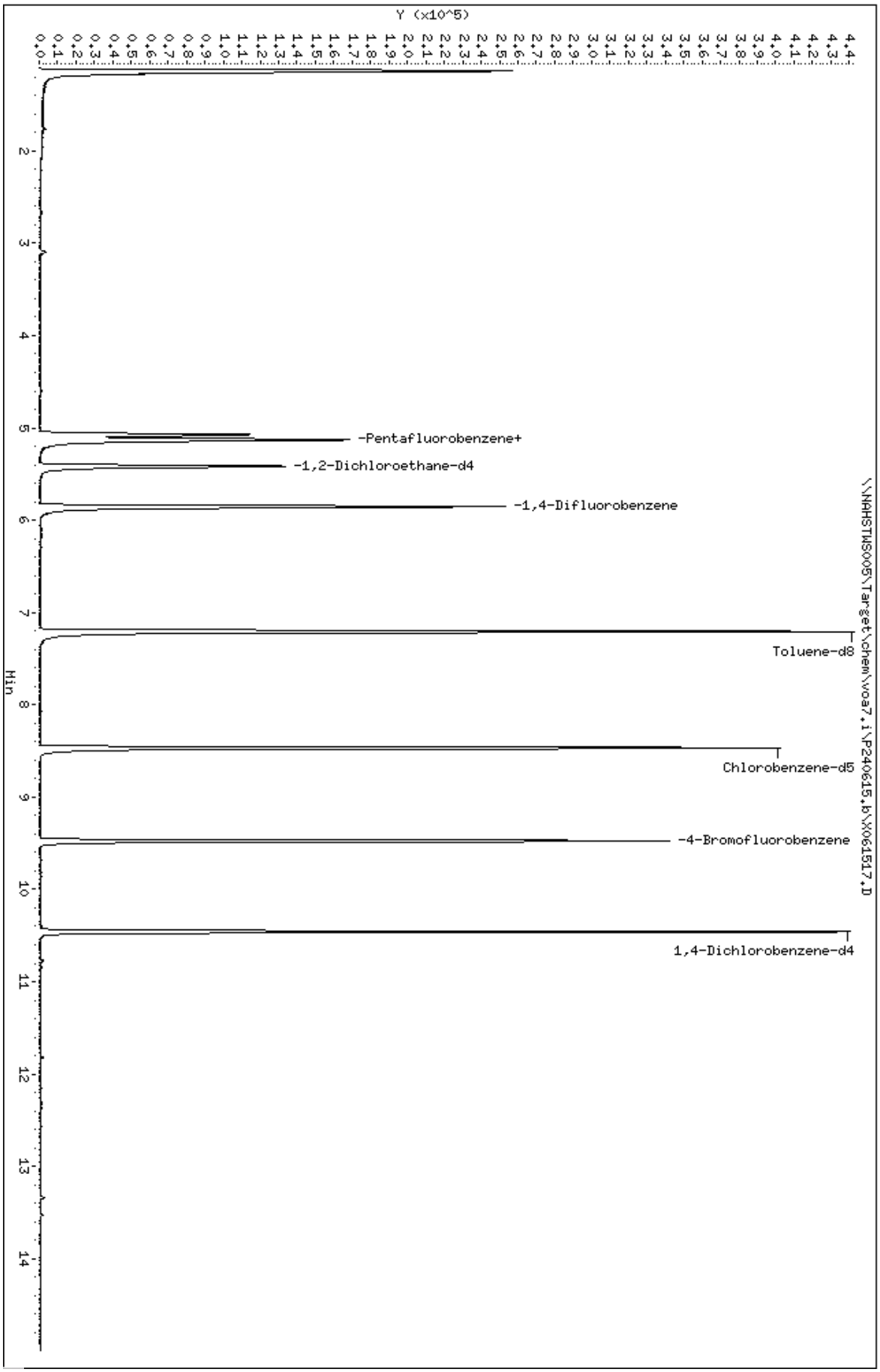
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

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	5.133	(1.000)	129701	50.0000	
$ 30 Dibromofluoromethane	113	5.072	5.072	(0.989)	79182	57.4329	57.43
$ 35 1,2-Dichloroethane-d4	65	5.416	5.416	(1.056)	106186	57.7512	57.75
* 36 1,4-Difluorobenzene	114	5.853	5.853	(1.000)	216943	50.0000	
* 47 Chlorobenzene-d5	117	8.467	8.467	(1.000)	207060	50.0000	
$ 48 Toluene-d8	98	7.207	7.203	(0.851)	278820	55.8582	55.85(M)
$ 69 4-Bromofluorobenzene	95	9.473	9.473	(1.119)	109714	54.9723	54.97
* 70 1,4-Dichlorobenzene-d4	152	10.457	10.457	(1.000)	106137	50.0000	

QC Flag Legend

M - Compound response manually integrated.



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Date : 15-JUN-2024 20:07
Client ID: VBLKW-240615
Sample Info: VBLKW-240615;VBLKW-240615;3;;BLANK
Purge Volume: 5.0
Column phase: DB624

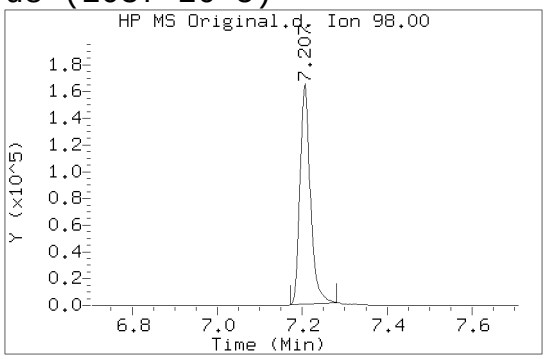
Instrument: voa7.i
Operator: AP
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061517.D
Inj Date : 15-JUN-2024 20:07
InstruID : voa7.i
LabSampID : VBLKW-240615

Toluene-d8 (2037-26-5)

Reason Code:

BEFORE
MASS
98
AREA
278820
HEIGHT
165042
12-Jul-2024
11:38
s
zaid



AFTER
MASS
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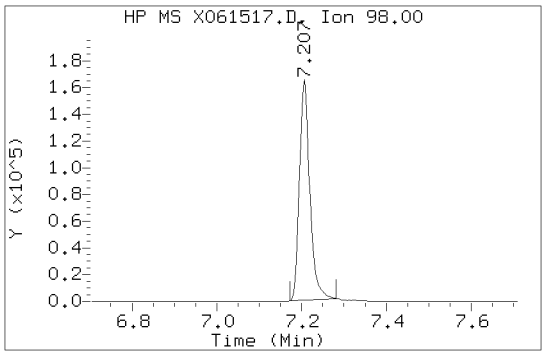

BEFORE
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12-Jul-2024
11:38
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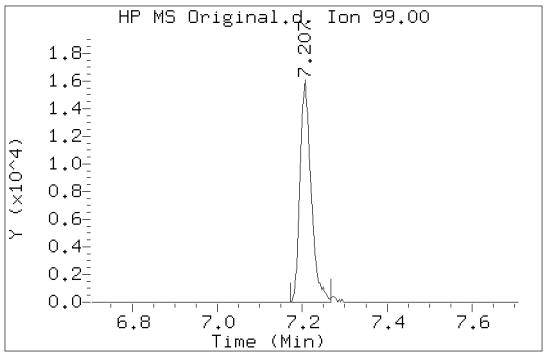
zaid



AFTER
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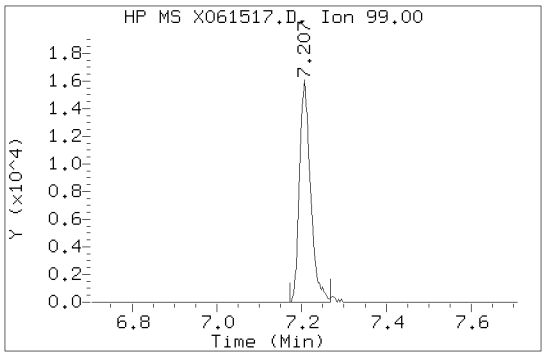

BEFORE
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12-Jul-2024
11:38
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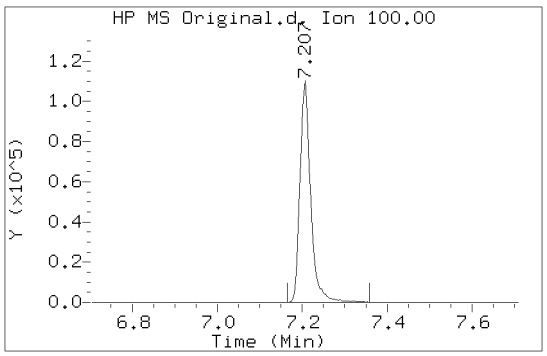

AFTER
MASS
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HEIGHT
110280
12-Jul-2024
11:38
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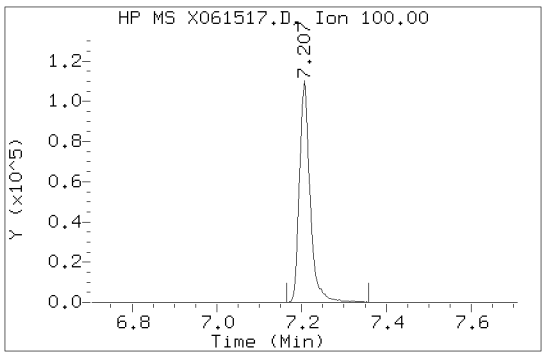


Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061518.D Page 1
Report Date: 22-Jul-2024 15:35

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061518.D
Lab Smp Id: HS24060747-10
Inj Date : 15-JUN-2024 20:30
Operator : AP   Inst ID: voa7.i
Smp Info : HS24060747-10
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240615.b\8260W.m
Meth Date : 22-Jul-2024 15:35 r.patel   Quant Type: ISTD
Cal Date : 15-JUN-2024 16:41   Cal File: X061509.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

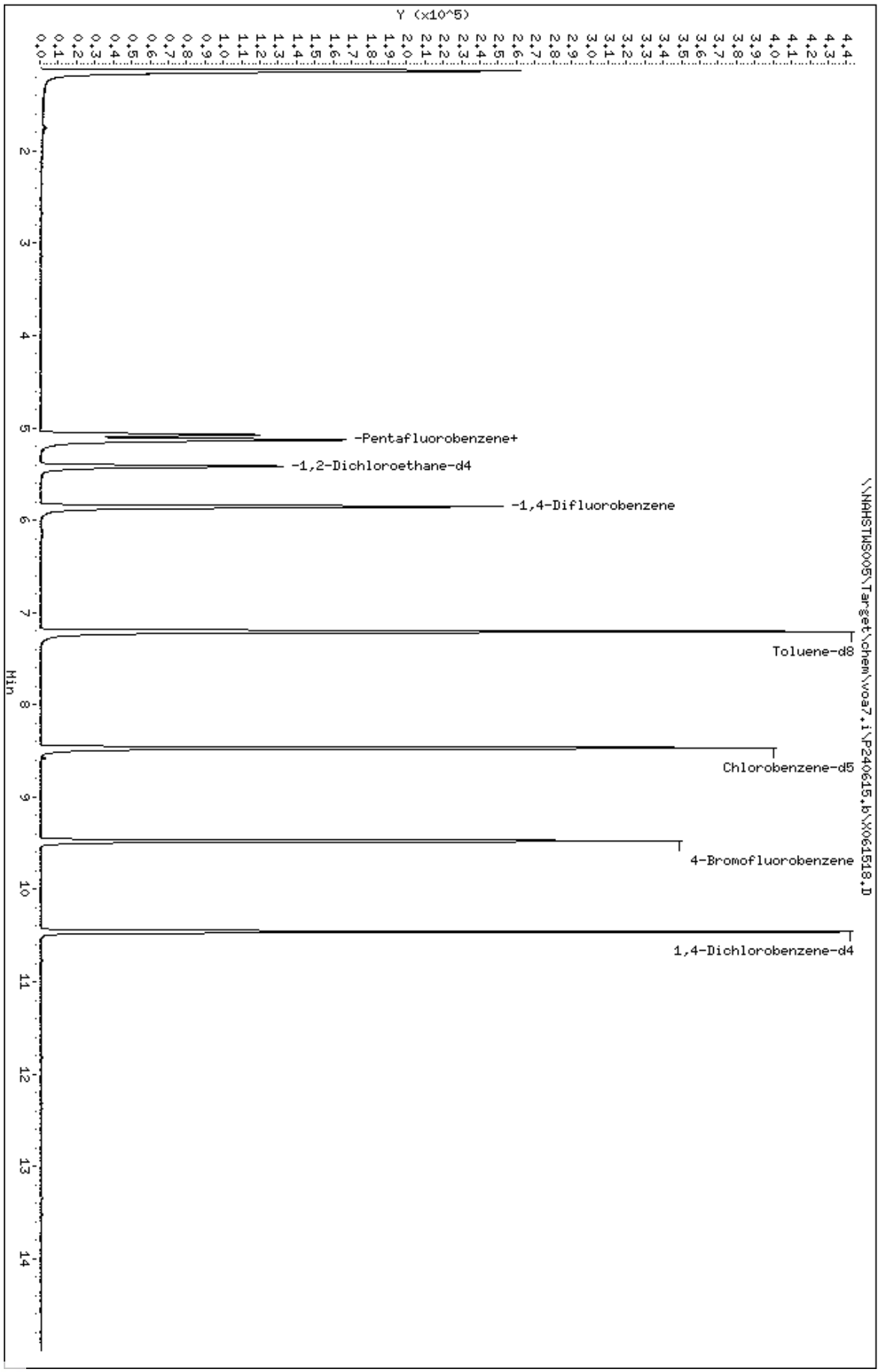
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

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	5.133	5.133	(1.000)	128772	50.0000	
$ 30 Dibromofluoromethane	113	5.075	5.072	(0.989)	78659	57.4660	57.46
$ 35 1,2-Dichloroethane-d4	65	5.416	5.412	(1.055)	104027	56.9627	56.96
* 36 1,4-Difluorobenzene	114	5.853	5.853	(1.000)	215483	50.0000	
* 47 Chlorobenzene-d5	117	8.467	8.467	(1.000)	207879	50.0000	
$ 48 Toluene-d8	98	7.207	7.203	(0.851)	280531	55.9824	55.98(M)
$ 69 4-Bromofluorobenzene	95	9.473	9.473	(1.119)	106049	52.8462	52.84
* 70 1,4-Dichlorobenzene-d4	152	10.457	10.457	(1.000)	106380	50.0000	

QC Flag Legend

M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061518.D
Date : 15-JUN-2024 20:30
Client ID:
Sample Info: HS24060747-10
Purge Volume: 5.0
Column phase: DB624

Instrument: voa7.i
Operator: AP
Column diameter: 0.18

Page 1

Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061518.D
Inj Date : 15-JUN-2024 20:30
InstruID : voa7.i
LabSampID : HS24060747-10

Toluene-d8 (2037-26-5)

Reason Code:

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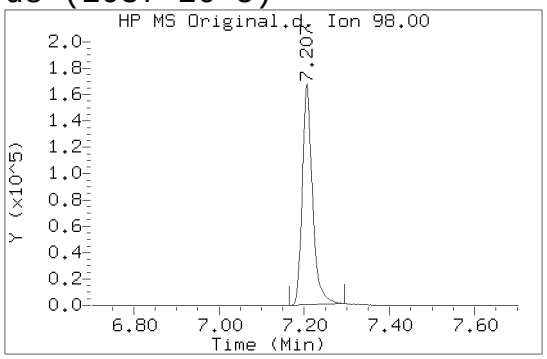
22-Jul-2024
15:35
r
patel



AFTER
MASS
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HEIGHT
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22-Jul-2024
15:35
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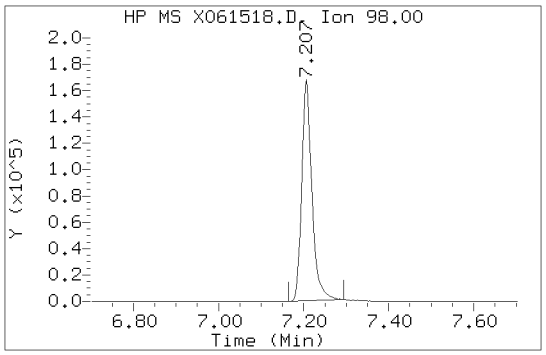

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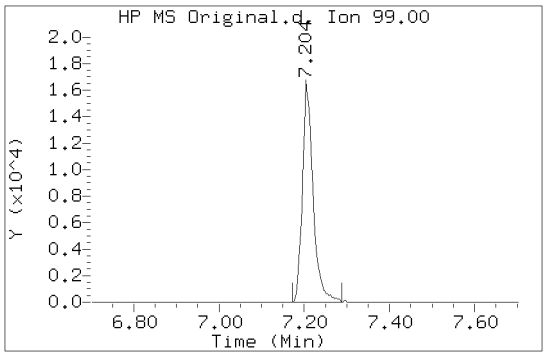

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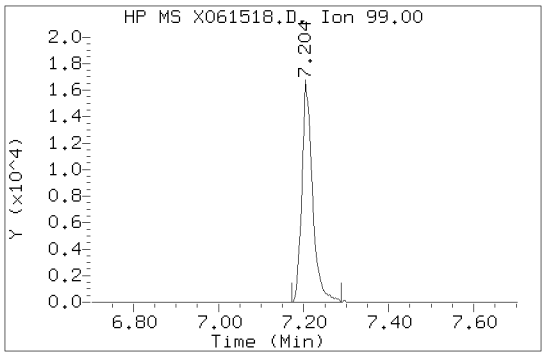

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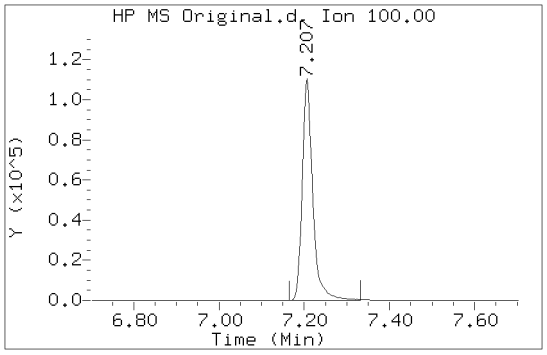

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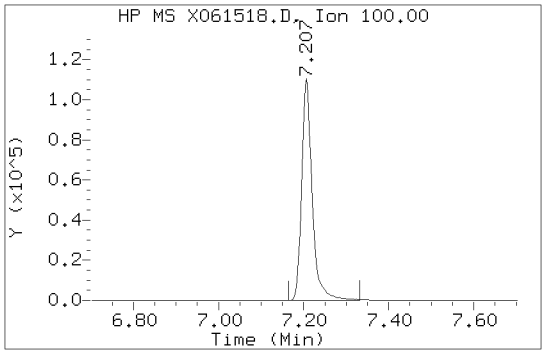

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061522.D Page 1
Report Date: 12-Jul-2024 11:39

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061522.D
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Inj Date : 15-JUN-2024 22:01
Operator : AP Inst ID: voa7.i
Smp Info : HS24060434-01MS;HS24060434-01MS;3;;MS
Misc Info : HS220328V7;WATER;0;250;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240615.b\8260W.m
Meth Date : 12-Jul-2024 11:38 voa7.i Quant Type: ISTD
Cal Date : 15-JUN-2024 17:04 Cal File: X061510.D
Als bottle: 21 QC Sample: MS
Dil Factor: 250.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	250.000	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	5.133	5.133	(1.000)	129511	50.0000	
2 Dichlorodifluoromethane	85	1.297	1.294	(0.253)	23363	16.7808	4195.21
159 Dichlorofluoromethane	67	2.075	2.075	(0.404)	53465	19.8241	4956.02
3 Chloromethane	50	1.448	1.448	(0.282)	35458	17.1262	4281.54
4 Propionitrile	54	4.670	4.670	(0.910)	33343	184.336	46083.98
5 Vinyl Chloride	62	1.535	1.535	(0.299)	32047	17.4470	4361.74
6 Bromomethane	94	1.808	1.808	(0.352)	17946	17.3184	4329.60
7 Chloroethane	64	1.898	1.895	(0.370)	19680	17.4596	4364.89
8 Trichlorofluoromethane	101	2.111	2.113	(0.411)	39803	16.5903	4147.56
9 Acrolein	56	2.519	2.519	(0.491)	820	22.4721	5618.01
10 Acetone	43	2.667	2.667	(0.520)	16165	32.0295	8007.36
11 1,1-Dichloroethene	96	2.593	2.593	(0.505)	23165	17.4855	4371.38
12 Isobutyl Alcohol	43	5.570	5.573	(1.085)	75975	340.807	85201.82
13 Acetonitrile	39	2.959	2.962	(0.577)	41011	200.696	50173.98
14 Allyl Chloride	41	2.959	2.956	(0.577)	81913	19.0921	4773.02
15 Iodomethane	142	2.741	2.744	(0.534)	49452	31.9265	7981.61
16 Acrylonitrile	53	3.381	3.380	(0.659)	17706	38.3304	9582.60
17 Methylene Chloride	84	3.091	3.094	(0.602)	27619	16.8927	4223.17
18 Methyl tert-butyl ether	73	3.381	3.380	(0.659)	66337	18.2118	4552.95
19 Carbon Disulfide	76	2.799	2.795	(0.545)	137551	33.2484	8312.10

20 trans-1,2-Dichloroethene	96	3.374	3.374 (0.657)	23416	16.7367	4184.18
21 Vinyl Acetate	43	4.660	4.657 (0.908)	25194	32.1999	8049.97

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061522.D Page 2
Report Date: 12-Jul-2024 11:39

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
22	1,1-Dichloroethane	63	3.860	3.863	(0.752)	48115	15.8029	3950.72
23	Chloroprene	53	3.966	3.965	(0.773)	40012	16.5220	4130.49
24	2-Butanone	43	4.593	4.589	(0.895)	21278	31.8736	7968.40
25	Methacrylonitrile	41	2.149	2.149	(0.419)	42928	19.8878	4971.95
26	2,2-Dichloropropane	77	4.535	4.535	(0.883)	38359	14.8422	3710.54
27	cis-1,2-Dichloroethene	96	4.545	4.544	(0.885)	147827	96.0889	24022.22
28	Chloroform	83	4.901	4.901	(0.955)	46853	16.4657	4116.41
29	Bromochloromethane	128	4.805	4.808	(0.936)	12098	15.7914	3947.85
$ 30	Dibromofluoromethane	113	5.072	5.072	(0.988)	79272	57.5862	57.58(R)
31	1,1,1-Trichloroethane	97	5.072	5.075	(0.988)	39877	16.4017	4100.41
32	1,1-Dichloropropene	75	5.249	5.245	(0.897)	34630	16.5551	4138.78
33	1,2-Dichloroethane	62	5.496	5.490	(0.939)	37384	15.8015	3950.38
34	Carbon Tetrachloride	117	5.233	5.236	(0.894)	32739	16.0368	4009.19
$ 35	1,2-Dichloroethane-d4	65	5.413	5.416	(1.054)	106756	58.1581	58.15
* 36	1,4-Difluorobenzene	114	5.853	5.853	(1.000)	214351	50.0000	
37	Benzene	78	5.458	5.457	(0.932)	96480	16.5614	4140.35
38	Trichloroethene	130	6.088	6.088	(1.040)	52665	35.6298	8907.45
39	Bromodichloromethane	83	6.570	6.570	(1.122)	34006	14.2499	3562.48
40	Methyl Methacrylate	41	6.435	6.432	(1.254)	26051	17.6893	4422.33
41	2-Chloroethylvinyl ether	63	6.850	6.853	(1.170)	13114	22.0776	5519.40
42	1,2-Dichloropropane	63	6.310	6.309	(1.078)	27056	16.1671	4041.77
43	2-Nitropropane	43	6.802	6.798	(1.325)	7812	17.0488	4262.19
44	Dibromomethane	93	6.419	6.416	(1.097)	14704	15.6252	3906.29
45	4-Methyl-2-Pentanone	43	7.130	7.126	(0.842)	50461	32.5716	8142.90
46	cis-1,3-Dichloropropene	75	6.979	6.978	(1.192)	35079	15.2259	3806.47
* 47	Chlorobenzene-d5	117	8.467	8.467	(1.000)	199549	50.0000	
$ 48	Toluene-d8	98	7.207	7.203	(0.851)	288742	60.1197	60.11(R)
49	Ethyl Methacrylate	69	8.046	8.039	(1.375)	28903	15.7789	3944.73
50	Toluene	91	7.265	7.264	(0.858)	100041	16.5752	4143.79
51	trans-1,3-Dichloropropene	75	6.979	6.978	(1.192)	35079	15.2259	3806.47
52	2-Hexanone	43	7.863	7.859	(0.929)	33708	31.3784	7844.60
53	1,1,2-Trichloroethane	83	7.638	7.637	(0.902)	18355	15.9977	3999.42
54	1,3-Dichloropropane	76	7.779	7.782	(0.919)	39390	16.0439	4010.97
55	Dibromochloromethane	129	7.975	7.978	(0.942)	23753	14.5327	3633.18
56	Tetrachloroethene	164	7.737	7.737	(0.914)	18855	16.6242	4156.06
57	1,2-Dibromoethane	107	8.072	8.071	(0.953)	18746	15.3253	3831.31
58	1-Chlorohexane	55	8.467	8.467	(1.447)	26136	16.1292	4032.31
59	Chlorobenzene	112	8.493	8.493	(1.003)	63593	16.0406	4010.15
60	1,1,1,2-Tetrachloroethane	131	8.564	8.563	(1.011)	21780	16.0520	4012.99
61	Ethylbenzene	106	8.583	8.583	(1.014)	33521	16.4632	4115.79
62	m,p-Xylenes	106	8.686	8.682	(1.026)	85216	33.4231	8355.78
63	o-Xylene	106	9.023	9.023	(1.066)	40463	16.3021	4075.52
64	Styrene	104	9.040	9.039	(1.068)	70907	16.2408	4060.19
66	Bromoform	173	9.203	9.206	(1.087)	15030	14.5837	3645.92
67	Isopropylbenzene	105	9.339	9.338	(1.103)	104579	16.5284	4132.10
68	1,1,2,2-Tetrachloroethane	83	9.609	9.608	(0.919)	27848	15.6780	3919.50
$ 69	4-Bromofluorobenzene	95	9.474	9.473	(1.119)	104127	54.1038	54.10
* 70	1,4-Dichlorobenzene-d4	152	10.457	10.457	(1.000)	102881	50.0000	
71	1,2,3-Trichloropropane	75	9.650	9.650	(0.923)	30576	15.2534	3813.36
72	trans-1,4-Dichloro-2-butene	53	9.660	9.660	(1.141)	6213	14.4124	3603.11
73	n-Propylbenzene	91	9.689	9.689	(0.927)	125265	16.3233	4080.83
74	Bromobenzene	156	9.605	9.605	(0.919)	26805	15.9091	3977.26

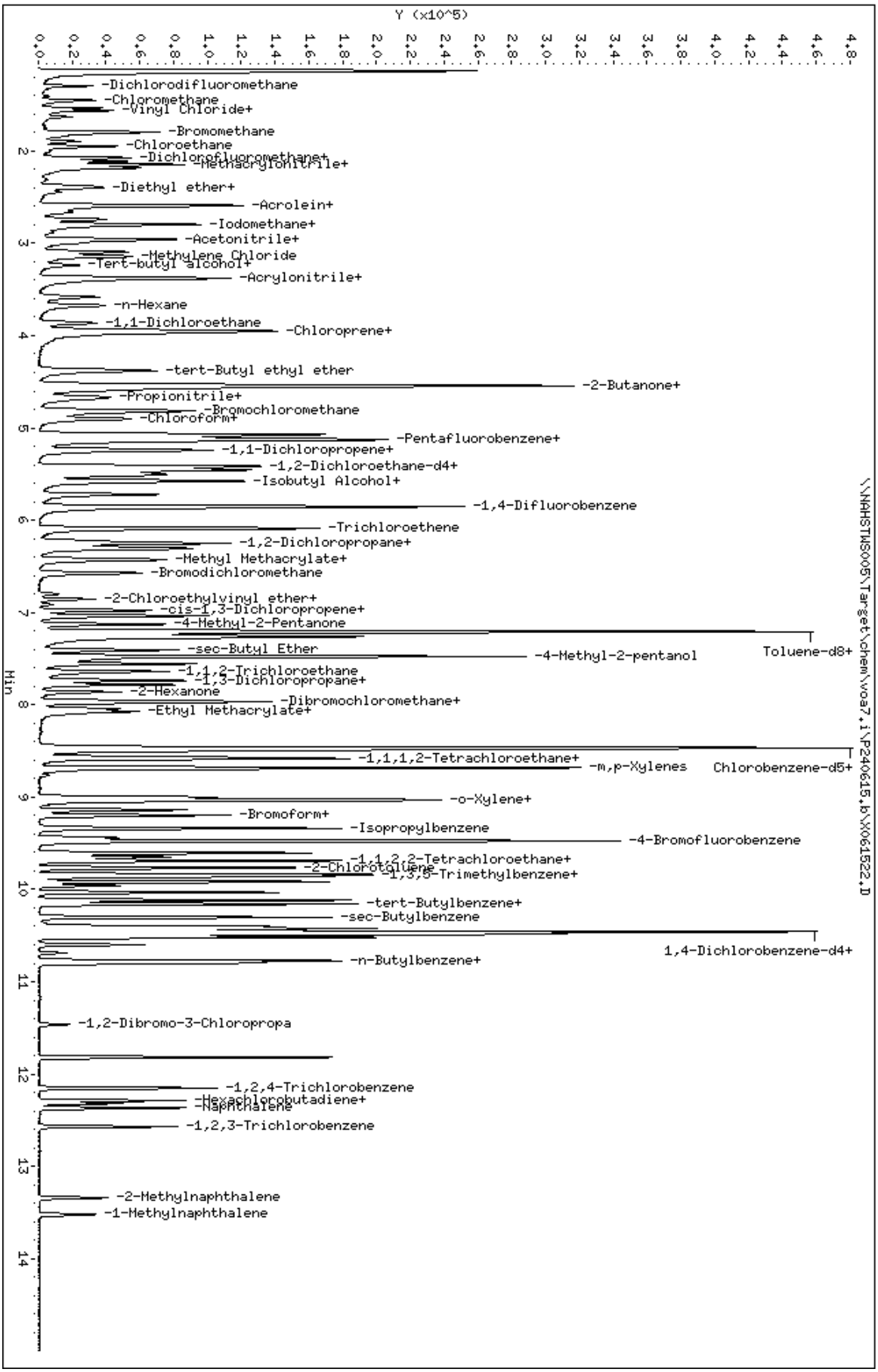
75	1,3,5-Trimethylbenzene	105	9.837	9.837 (0.941)	89448	16.3302	4082.54
76	2-Chlorotoluene	91	9.766	9.766 (0.934)	75935	15.9706	3992.63

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061522.D Page 3
Report Date: 12-Jul-2024 11:39

	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)	89245	15.9934	3998.35
78	tert-Butylbenzene	119	10.117	10.116	(0.967)	74611	16.3252	4081.30
79	1,2,4-Trimethylbenzene	105	10.158	10.158	(0.971)	89410	16.2894	4072.35
81	sec-Butylbenzene	105	10.303	10.303	(0.985)	102160	16.4186	4104.65
82	p-Isopropyltoluene	119	10.425	10.425	(0.997)	90409	16.1240	4030.99
83	1,3-Dichlorobenzene	146	10.403	10.403	(0.995)	49249	15.9165	3979.13
84	1,4-Dichlorobenzene	146	10.480	10.476	(1.002)	49733	15.5514	3887.84
87	n-Butylbenzene	91	10.773	10.772	(1.030)	84589	15.9825	3995.61
88	1,2-Dichlorobenzene	146	10.798	10.795	(1.033)	45570	15.2793	3819.83
89	1,2-Dibromo-3-Chloropropane	75	11.461	11.464	(1.096)	4195	13.7976	3449.41
90	1,2,4-Trichlorobenzene	180	12.152	12.155	(1.162)	26988	14.4212	3605.29
91	Hexachlorobutadiene	225	12.287	12.287	(1.175)	14056	15.5666	3891.66
92	Naphthalene	128	12.367	12.367	(1.183)	57188	12.9582	3239.56
93	1,2,3-Trichlorobenzene	182	12.570	12.570	(1.202)	21088	13.1268	3281.70
135	1,4-Dioxane	88	6.445	6.448	(1.256)	4176	389.781	97445.21(A)
138	Freon TF	101	2.593	2.589	(0.505)	35730	27.2056	6801.41
139	Diethyl ether	59	2.381	2.377	(0.464)	18410	19.4990	4874.73
140	1,3-Butadiene	54	1.564	1.564	(0.305)	14137	17.3564	4339.08
141	Cyclohexane	56	5.114	5.113	(0.996)	40102	16.9925	4248.12
147	Methylcyclohexane	83	6.249	6.252	(1.068)	42757	21.2353	5308.81
132	n-Butanol	56	6.252	6.248	(1.218)	17512	424.648	106161.90
131	Methyl Acrylate	55	4.689	4.689	(0.914)	26240	17.6535	4413.37
133	Ethyl Acrylate	55	6.223	6.223	(1.212)	30506	8.37139	2092.84
136	n-Hexane	57	3.676	3.673	(0.716)	25612	15.9841	3996.01
142	Tetrahydrofuran	42	4.866	4.863	(0.948)	9548	40.3849	10096.22
148	Tert-butyl alcohol	59	3.242	3.239	(0.632)	32413	339.129	84782.32
149	Isopropyl alcohol	45	2.815	2.814	(0.548)	25366	368.988	92247.06
151	4-Methyl-2-pentanol	45	7.477	7.473	(0.883)	182915	345.443	86360.81
166	1,2,3-Trimethylbenzene	105	10.519	10.518	(1.006)	96249	18.1636	4540.89
167	Ethanol	45	2.307	2.310	(0.449)	4445	386.372	96593.01
172	tert-Butyl formate	59	3.242	3.239	(0.632)	32413	38.9672	9741.78
173	3,3-Dimethyl-1-butanol	57	8.046	8.042	(0.950)	41035	325.510	81377.49
174	tert-Amyl methyl ether	73	5.577	5.580	(1.086)	74923	18.8364	4709.10
175	tert-Butyl ethyl ether	59	4.381	4.377	(0.853)	79805	18.0716	4517.90
157	2-Methylnaphthalene	142	13.338	13.341	(1.275)	19090	11.8849	2971.22
156	Diisopropyl ether	45	3.946	3.949	(0.769)	92274	17.9424	4485.60
171	1-Methylnaphthalene	142	13.525	13.525	(1.293)	16361	11.5207	2880.16
130	Ethyl Acetate	43	3.946	3.946	(0.769)	141715	15.8062	3951.56
176	tert-Amyl alcohol	59	5.512	5.509	(1.074)	29536	370.556	92638.97(A)
160	Epichlorohydrin	57	6.914	6.914	(1.181)	6042	65.8906	16472.64
161	Butyl acrylate	55	8.998	8.997	(1.063)	58046	17.2920	4322.99
183	Isopropyl Acetate	43	5.570	5.573	(0.952)	75975	17.2644	4316.10(A)
184	n-Amyl acetate	43	9.194	9.194	(1.086)	46646	14.6318	3657.94(A)
185	Acetaldehyde	44	1.631	1.628	(0.318)	23799	112.092	28023.05(A)
186	n-Butyl acetate	43	7.966	7.969	(0.941)	40262	16.4432	4110.79(A)
187	2-Etyhlhexyl Acrylate	55	12.319	12.319	(1.178)	15199	14.7975	3699.37(A)
188	Tetrahydrothiophene	60	7.956	7.956	(0.940)	28743	18.1249	4531.23(A)
189	sec-Butyl Ether	57	7.406	7.406	(0.875)	31039	22.0089	5502.23(A)
190	Isoprene	39	2.403	2.396	(0.468)	5678	14.5277	3631.91(A)
191	2-Chloropropene	41	2.149	2.149	(0.419)	42928	19.2671	4816.78(A)
M 94	1,2-Dichloroethylene (total)	96				171243	112.826	28206.40
M 95	Xylenes (total)	106				125679	49.7253	12431.31

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.



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Sample Info: HS2406043 4-01HS;HS2406043 4-01HS;3;;HS
Purge Volume: 5.0
Column phase: DB624

Instrument: voa7.i
Operator: AP
Column diameter: 0.18

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Inj Date : 15-JUN-2024 22:01
InstruID : voa7.i
LabSampID : HS24060434-01MS

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061523.D Page 1
Report Date: 12-Jul-2024 11:39

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061523.D
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Inj Date : 15-JUN-2024 22:24
Operator : AP Inst ID: voa7.i
Smp Info : HS24060434-01MSD;HS24060434-01MSD;3;;MSD
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240615.b\8260W.m
Meth Date : 12-Jul-2024 11:38 voa7.i Quant Type: ISTD
Cal Date : 15-JUN-2024 17:04 Cal File: X061510.D
Als bottle: 21 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

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	5.133	(1.000)	127655	50.0000	
2 Dichlorodifluoromethane	85	1.294	1.294	(0.252)	22415	16.3246	16.32
159 Dichlorofluoromethane	67	2.075	2.075	(0.405)	51659	19.4330	19.43
3 Chloromethane	50	1.448	1.448	(0.282)	32920	16.0745	16.07
4 Propionitrile	54	4.670	4.670	(0.910)	32631	182.953	182.95
5 Vinyl Chloride	62	1.532	1.535	(0.299)	30037	16.5838	16.58
6 Bromomethane	94	1.802	1.808	(0.351)	16547	16.1108	16.11
7 Chloroethane	64	1.892	1.895	(0.369)	18405	16.5446	16.54
8 Trichlorofluoromethane	101	2.111	2.113	(0.411)	38713	16.3658	16.36
9 Acrolein	56	2.512	2.519	(0.490)	1028	28.5819	28.58
10 Acetone	43	2.667	2.667	(0.520)	17808	36.5010	36.50
11 1,1-Dichloroethene	96	2.590	2.593	(0.505)	21492	16.4678	16.46
12 Isobutyl Alcohol	43	5.570	5.573	(1.086)	73407	333.707	333.70
13 Acetonitrile	39	2.959	2.962	(0.577)	40440	200.782	200.78
14 Allyl Chloride	41	2.959	2.956	(0.577)	82649	19.5664	19.56
15 Iodomethane	142	2.737	2.744	(0.534)	50120	32.7195	32.71
16 Acrylonitrile	53	3.377	3.380	(0.658)	17078	37.4886	37.48
17 Methylene Chloride	84	3.094	3.094	(0.603)	27338	16.9716	16.97
18 Methyl tert-butyl ether	73	3.377	3.380	(0.658)	65148	18.1465	18.14
19 Carbon Disulfide	76	2.792	2.795	(0.544)	131265	32.1719	32.17

20 trans-1,2-Dichloroethene	96	3.371	3.374 (0.657)	22220	16.1027	16.10
21 Vinyl Acetate	43	4.654	4.657 (0.907)	24879	32.2659	32.26

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061523.D Page 2
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	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)	45884	15.2893	15.28
23	Chloroprene	53	3.966	3.965	(0.773)	38222	16.0113	16.01
24	2-Butanone	43	4.590	4.589	(0.895)	21570	32.9026	32.90
25	Methacrylonitrile	41	2.146	2.149	(0.418)	41823	19.6576	19.65
26	2,2-Dichloropropane	77	4.532	4.535	(0.883)	36538	14.3431	14.34
27	cis-1,2-Dichloroethene	96	4.544	4.544	(0.886)	143469	94.6039	94.60
28	Chloroform	83	4.905	4.901	(0.956)	44037	15.6639	15.66
29	Bromochloromethane	128	4.808	4.808	(0.937)	12080	16.0026	16.00
$ 30	Dibromofluoromethane	113	5.072	5.072	(0.989)	81310	59.9837	59.98(R)
31	1,1,1-Trichloroethane	97	5.072	5.075	(0.989)	37273	15.5532	15.55
32	1,1-Dichloropropene	75	5.245	5.245	(0.896)	33136	15.8152	15.81
33	1,2-Dichloroethane	62	5.493	5.490	(0.938)	37613	15.8688	15.86
34	Carbon Tetrachloride	117	5.233	5.236	(0.894)	31842	15.5937	15.59
$ 35	1,2-Dichloroethane-d4	65	5.413	5.416	(1.055)	107761	59.6011	59.60
* 36	1,4-Difluorobenzene	114	5.853	5.853	(1.000)	214775	50.0000	
37	Benzene	78	5.458	5.457	(0.932)	92502	15.8263	15.82
38	Trichloroethene	130	6.088	6.088	(1.040)	51385	34.6915	34.69
39	Bromodichloromethane	83	6.567	6.570	(1.122)	33281	13.9186	13.91
40	Methyl Methacrylate	41	6.432	6.432	(1.254)	25973	17.9132	17.91
41	2-Chloroethylvinyl ether	63	6.856	6.853	(1.171)	13122	22.0457	22.04
42	1,2-Dichloropropane	63	6.306	6.309	(1.077)	26174	15.5945	15.59
43	2-Nitropropane	43	6.798	6.798	(1.325)	8497	18.7777	18.77
44	Dibromomethane	93	6.419	6.416	(1.097)	14891	15.7931	15.79
45	4-Methyl-2-Pentanone	43	7.126	7.126	(0.842)	49363	31.8595	31.85
46	cis-1,3-Dichloropropene	75	6.975	6.978	(1.192)	33999	14.7419	14.74
* 47	Chlorobenzene-d5	117	8.467	8.467	(1.000)	199331	50.0000	
$ 48	Toluene-d8	98	7.207	7.203	(0.851)	295757	61.6802	61.68(R)
49	Ethyl Methacrylate	69	8.043	8.039	(1.374)	31542	17.1625	17.16
50	Toluene	91	7.265	7.264	(0.858)	96538	15.9908	15.99
51	trans-1,3-Dichloropropene	75	6.975	6.978	(1.192)	33999	14.7419	14.74
52	2-Hexanone	43	7.863	7.859	(0.929)	30997	28.6493	28.64
53	1,1,2-Trichloroethane	83	7.638	7.637	(0.902)	18473	16.1246	16.12
54	1,3-Dichloropropane	76	7.786	7.782	(0.919)	38197	15.5527	15.55
55	Dibromochloromethane	129	7.978	7.978	(0.942)	23087	14.1407	14.14
56	Tetrachloroethene	164	7.734	7.737	(0.913)	17705	15.6227	15.62
57	1,2-Dibromoethane	107	8.072	8.071	(0.953)	19124	15.6708	15.67
58	1-Chlorohexane	55	8.467	8.467	(1.447)	25304	15.5058	15.50
59	Chlorobenzene	112	8.493	8.493	(1.003)	62474	15.7645	15.76
60	1,1,1,2-Tetrachloroethane	131	8.564	8.563	(1.011)	21444	15.8283	15.82
61	Ethylbenzene	106	8.586	8.583	(1.014)	32936	16.1849	16.18
62	m,p-Xylenes	106	8.683	8.682	(1.025)	79306	31.0639	31.06
63	o-Xylene	106	9.027	9.023	(1.066)	39116	15.7527	15.75
64	Styrene	104	9.039	9.039	(1.068)	67816	15.5235	15.52
66	Bromoform	173	9.207	9.206	(1.087)	15101	14.6686	14.66
67	Isopropylbenzene	105	9.339	9.338	(1.103)	101918	16.1176	16.11
68	1,1,2,2-Tetrachloroethane	83	9.609	9.608	(0.919)	27443	15.2665	15.26
$ 69	4-Bromofluorobenzene	95	9.477	9.473	(1.119)	107754	56.1276	56.12
* 70	1,4-Dichlorobenzene-d4	152	10.457	10.457	(1.000)	103987	50.0000	
71	1,2,3-Trichloropropane	75	9.647	9.650	(0.923)	31762	15.6932	15.69
72	trans-1,4-Dichloro-2-butene	53	9.660	9.660	(1.141)	6399	14.8548	14.85
73	n-Propylbenzene	91	9.689	9.689	(0.927)	122351	15.7745	15.77
74	Bromobenzene	156	9.605	9.605	(0.919)	26856	15.7680	15.76

75	1,3,5-Trimethylbenzene	105	9.837	9.837 (0.941)	86046	15.5521	15.55
76	2-Chlorotoluene	91	9.763	9.766 (0.934)	75204	15.6391	15.63

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061523.D Page 3
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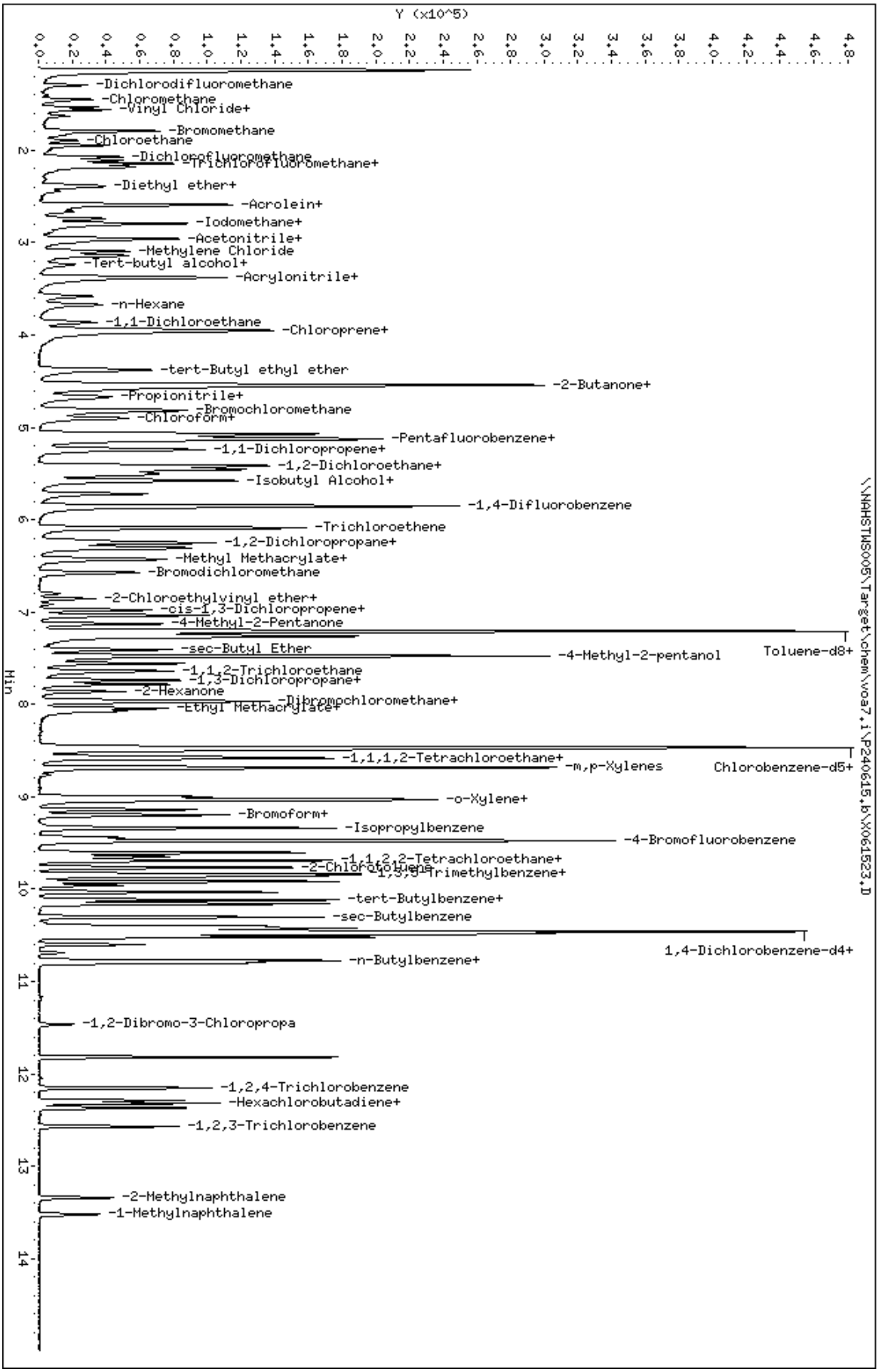
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
77	4-Chlorotoluene	91	9.859	9.859	(0.943)	86746	15.3699	15.36
78	tert-Butylbenzene	119	10.117	10.116	(0.967)	72604	15.7080	15.70
79	1,2,4-Trimethylbenzene	105	10.155	10.158	(0.971)	85889	15.4746	15.47
81	sec-Butylbenzene	105	10.303	10.303	(0.985)	99841	15.8815	15.88
82	p-Isopropyltoluene	119	10.425	10.425	(0.997)	89659	15.8235	15.82
83	1,3-Dichlorobenzene	146	10.403	10.403	(0.995)	47955	15.3286	15.32
84	1,4-Dichlorobenzene	146	10.477	10.476	(1.002)	49595	15.3373	15.33
87	n-Butylbenzene	91	10.773	10.772	(1.030)	81442	15.2229	15.22
88	1,2-Dichlorobenzene	146	10.798	10.795	(1.033)	46158	15.3123	15.31
89	1,2-Dibromo-3-Chloropropane	75	11.464	11.464	(1.096)	4217	13.7225	13.72
90	1,2,4-Trichlorobenzene	180	12.155	12.155	(1.162)	27248	14.4062	14.40
91	Hexachlorobutadiene	225	12.290	12.287	(1.175)	13771	15.1110	15.11
92	Naphthalene	128	12.371	12.367	(1.183)	59795	13.4049	13.40
93	1,2,3-Trichlorobenzene	182	12.570	12.570	(1.202)	21404	13.1818	13.18
135	1,4-Dioxane	88	6.454	6.448	(1.258)	3993	377.679	377.67(A)
138	Freon TF	101	2.593	2.589	(0.506)	34358	26.5486	26.54
139	Diethyl ether	59	2.381	2.377	(0.464)	16673	17.9160	17.91
140	1,3-Butadiene	54	1.561	1.564	(0.304)	13225	16.5103	16.51
141	Cyclohexane	56	5.114	5.113	(0.997)	37251	15.9760	15.97
147	Methylcyclohexane	83	6.245	6.252	(1.067)	40675	20.2638	20.26
132	n-Butanol	56	6.245	6.248	(1.217)	15443	379.921	379.92
131	Methyl Acrylate	55	4.686	4.689	(0.914)	26868	18.3888	18.38
133	Ethyl Acrylate	55	6.252	6.223	(1.219)	69924	19.4674	19.46
136	n-Hexane	57	3.676	3.673	(0.717)	24637	15.6167	15.61
142	Tetrahydrofuran	42	4.860	4.863	(0.947)	10905	46.5610	46.56
148	Tert-butyl alcohol	59	3.239	3.239	(0.631)	32613	346.183	346.18
149	Isopropyl alcohol	45	2.818	2.814	(0.549)	25919	383.632	383.63
151	4-Methyl-2-pentanol	45	7.474	7.473	(0.883)	172441	325.662	325.66
166	1,2,3-Trimethylbenzene	105	10.519	10.518	(1.006)	94354	17.6166	17.61
167	Ethanol	45	2.310	2.310	(0.450)	3890	338.859	338.85
172	tert-Butyl formate	59	3.239	3.239	(0.631)	32613	39.8293	39.82
173	3,3-Dimethyl-1-butanol	57	8.040	8.042	(0.949)	45599	361.197	361.19
174	tert-Amyl methyl ether	73	5.577	5.580	(1.087)	72349	18.4501	18.45
175	tert-Butyl ethyl ether	59	4.374	4.377	(0.853)	78239	17.9746	17.97
157	2-Methylnaphthalene	142	13.342	13.341	(1.276)	20077	12.3664	12.36
156	Diisopropyl ether	45	3.950	3.949	(0.770)	92950	18.3367	18.33
171	1-Methylnaphthalene	142	13.522	13.525	(1.293)	17467	12.1687	12.16
130	Ethyl Acetate	43	3.946	3.946	(0.769)	142136	16.0812	16.08
176	tert-Amyl alcohol	59	5.512	5.509	(1.075)	30364	387.550	387.54(A)
160	Epichlorohydrin	57	6.914	6.914	(1.181)	6519	70.8490	70.84
161	Butyl acrylate	55	8.998	8.997	(1.063)	58782	17.5269	17.52
183	Isopropyl Acetate	43	5.570	5.573	(0.952)	73407	16.6264	16.62(A)
184	n-Amyl acetate	43	9.194	9.194	(1.086)	46332	14.5523	14.55(A)
185	Acetaldehyde	44	1.628	1.628	(0.317)	22404	106.863	106.86(A)
186	n-Butyl acetate	43	7.966	7.969	(0.941)	39191	16.0009	16.00(A)
187	2-Etyhlhexyl Acrylate	55	12.319	12.319	(1.178)	31541	26.4055	26.40(A)
188	Tetrahydrothiophene	60	7.959	7.956	(0.940)	28676	18.1023	18.10(A)
189	sec-Butyl Ether	57	7.406	7.406	(0.875)	29102	20.5055	20.50(A)
190	Isoprene	39	2.397	2.396	(0.467)	7481	19.2964	19.29(A)
191	2-Chloropropene	41	2.146	2.149	(0.418)	41823	19.0441	19.04(A)
M 94	1,2-Dichloroethylene (total)	96				165689	110.707	110.70
M 95	Xylenes (total)	106				118422	46.8166	46.81

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.



Data File: \\NAHSTWS005\Target\chem\voa7,i\P240615,b\X061523,D
Date : 15-JUN-2024 22:24
Client ID: HS2406043-01MSD
Sample Info: HS2406043-01MSD;HS2406043-01MSD;3;;MSD
Purge Volume: 5.0
Column phase: DB624

Instrument: voa7,i
Operator: AP
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061523.D
Inj Date : 15-JUN-2024 22:24
InstruID : voa7.i
LabSampID : HS24060434-01MSD

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061541.D Page 1
Report Date: 12-Jul-2024 11:51

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061541.D
Lab Smp Id: VSTD50 Client Smp ID: VSTD50
Inj Date : 16-JUN-2024 05:16
Operator : AP Inst ID: voa7.i
Smp Info : VSTD50;VSTD050;2;;CCV
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240615.b\8260W.m
Meth Date : 12-Jul-2024 11:51 voa7.i Quant Type: ISTD
Cal Date : 15-JUN-2024 16:41 Cal File: X061509.D
Als bottle: 39 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

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)	124741	50.0000	
2	Dichlorodifluoromethane	85	1.294	1.294	(0.252)	58351	50.0000	44.07
159	Dichlorofluoromethane	67	2.072	2.072	(0.404)	122795	50.0000	47.27
3	Chloromethane	50	1.448	1.448	(0.282)	85419	50.0000	44.30
4	Propionitrile	54	4.670	4.670	(0.910)	73432	500.000	434.11
5	Vinyl Chloride	62	1.532	1.532	(0.298)	78265	50.0000	44.44
6	Bromomethane	94	1.808	1.808	(0.352)	43449	50.0000	45.63
7	Chloroethane	64	1.895	1.895	(0.369)	48180	50.0000	45.01
8	Trichlorofluoromethane	101	2.110	2.110	(0.411)	103061	50.0000	45.20
9	Acrolein	56	2.519	2.519	(0.491)	3606	100.000	102.60
10	Acetone	43	2.667	2.667	(0.520)	38802	100.000	88.73
11	1,1-Dichloroethene	96	2.589	2.589	(0.505)	57219	50.0000	44.59
12	Isobutyl Alcohol	43	5.573	5.573	(1.086)	180783	1000.00	869.36
13	Acetonitrile	39	2.959	2.959	(0.577)	96140	500.000	497.54
14	Allyl Chloride	41	2.959	2.959	(0.577)	191034	50.0000	47.59
15	Iodomethane	142	2.740	2.740	(0.534)	138457	100.000	85.47
16	Acrylonitrile	53	3.371	3.371	(0.657)	40127	100.000	91.44
17	Methylene Chloride	84	3.091	3.091	(0.602)	66112	50.0000	44.67
18	Methyl tert-butyl ether	73	3.377	3.377	(0.658)	158399	50.0000	44.72
19	Carbon Disulfide	76	2.795	2.795	(0.545)	340882	100.000	86.45

20 trans-1,2-Dichloroethene	96	3.377	3.377 (0.658)	58564	50.0000	43.88
21 Vinyl Acetate	43	4.657	4.657 (0.907)	55914	100.000	78.59

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061541.D Page 2
Report Date: 12-Jul-2024 11:51

	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)	123327	50.0000	42.05
	23 Chloroprene	53	3.966	3.966	(0.773)	100701	50.0000	43.22
	24 2-Butanone	43	4.586	4.586	(0.894)	48251	100.000	80.83
	25 Methacrylonitrile	41	2.146	2.146	(0.418)	94749	50.0000	45.57
	26 2,2-Dichloropropane	77	4.531	4.531	(0.883)	96704	50.0000	38.84
	27 cis-1,2-Dichloroethene	96	4.544	4.544	(0.885)	66378	50.0000	44.51
	28 Chloroform	83	4.901	4.901	(0.955)	120673	50.0000	45.36
	29 Bromochloromethane	128	4.802	4.802	(0.935)	32168	50.0000	44.32
$	30 Dibromofluoromethane	113	5.072	5.072	(0.988)	78400	50.0000	59.16
	31 1,1,1-Trichloroethane	97	5.072	5.072	(0.988)	102643	50.0000	43.84
	32 1,1-Dichloropropene	75	5.245	5.245	(0.896)	88074	50.0000	42.22
	33 1,2-Dichloroethane	62	5.493	5.493	(0.938)	100604	50.0000	43.58
	34 Carbon Tetrachloride	117	5.232	5.232	(0.894)	85840	50.0000	40.84
$	35 1,2-Dichloroethane-d4	65	5.412	5.412	(1.054)	101447	50.0000	57.35(M)
*	36 1,4-Difluorobenzene	114	5.853	5.853	(1.000)	212775	50.0000	
	37 Benzene	78	5.457	5.457	(0.932)	246387	50.0000	43.36
	38 Trichloroethene	130	6.088	6.088	(1.040)	64130	50.0000	43.74
	39 Bromodichloromethane	83	6.570	6.570	(1.122)	92038	50.0000	38.85
	40 Methyl Methacrylate	41	6.432	6.432	(1.253)	64997	50.0000	48.64
	41 2-Chloroethylvinyl ether	63	6.856	6.856	(1.171)	51472	100.000	89.29
	42 1,2-Dichloropropane	63	6.309	6.309	(1.078)	69460	50.0000	42.48
	43 2-Nitropropane	43	6.798	6.798	(1.324)	18779	50.0000	42.03
	44 Dibromomethane	93	6.419	6.419	(1.097)	39079	50.0000	41.90
	45 4-Methyl-2-Pentanone	43	7.126	7.126	(0.842)	119437	100.000	80.80
	46 cis-1,3-Dichloropropene	75	6.975	6.975	(1.192)	92829	50.0000	39.88
*	47 Chlorobenzene-d5	117	8.467	8.467	(1.000)	196704	50.0000	
$	48 Toluene-d8	98	7.203	7.203	(0.851)	279939	50.0000	59.10
	49 Ethyl Methacrylate	69	8.043	8.043	(1.374)	66036	50.0000	35.65
	50 Toluene	91	7.264	7.264	(0.858)	252934	50.0000	43.50
	51 trans-1,3-Dichloropropene	75	6.975	6.975	(1.192)	92829	50.0000	39.88
	52 2-Hexanone	43	7.859	7.859	(0.928)	79990	100.000	79.73
	53 1,1,2-Trichloroethane	83	7.637	7.637	(0.902)	47928	50.0000	43.79
	54 1,3-Dichloropropane	76	7.782	7.782	(0.919)	101179	50.0000	43.03
	55 Dibromochloromethane	129	7.975	7.975	(0.942)	63806	50.0000	39.60
	56 Tetrachloroethene	164	7.737	7.737	(0.914)	48534	50.0000	43.53
	57 1,2-Dibromoethane	107	8.071	8.071	(0.953)	49012	50.0000	42.15
	58 1-Chlorohexane	55	8.467	8.467	(1.447)	60506	50.0000	40.74
	59 Chlorobenzene	112	8.493	8.493	(1.003)	165702	50.0000	43.50
	60 1,1,1,2-Tetrachloroethane	131	8.563	8.563	(1.011)	57693	50.0000	42.35
	61 Ethylbenzene	106	8.583	8.583	(1.014)	84478	50.0000	42.91
	62 m,p-Xylenes	106	8.682	8.682	(1.025)	213380	100.000	86.59
	63 o-Xylene	106	9.023	9.023	(1.066)	104318	50.0000	43.83
	64 Styrene	104	9.039	9.039	(1.068)	185618	50.0000	44.15
	66 Bromoform	173	9.206	9.206	(1.087)	40357	50.0000	39.72
	67 Isopropylbenzene	105	9.338	9.338	(1.103)	269433	50.0000	43.71
	68 1,1,2,2-Tetrachloroethane	83	9.608	9.608	(0.919)	68538	50.0000	38.86
$	69 4-Bromofluorobenzene	95	9.473	9.473	(1.119)	102991	50.0000	54.29
*	70 1,4-Dichlorobenzene-d4	152	10.457	10.457	(1.000)	105082	50.0000	
	71 1,2,3-Trichloropropane	75	9.647	9.647	(0.923)	76782	50.0000	38.37
	72 trans-1,4-Dichloro-2-butene	53	9.657	9.657	(1.140)	15232	50.0000	35.58
	73 n-Propylbenzene	91	9.689	9.689	(0.927)	320540	50.0000	40.87
	74 Bromobenzene	156	9.602	9.602	(0.918)	71852	50.0000	42.08

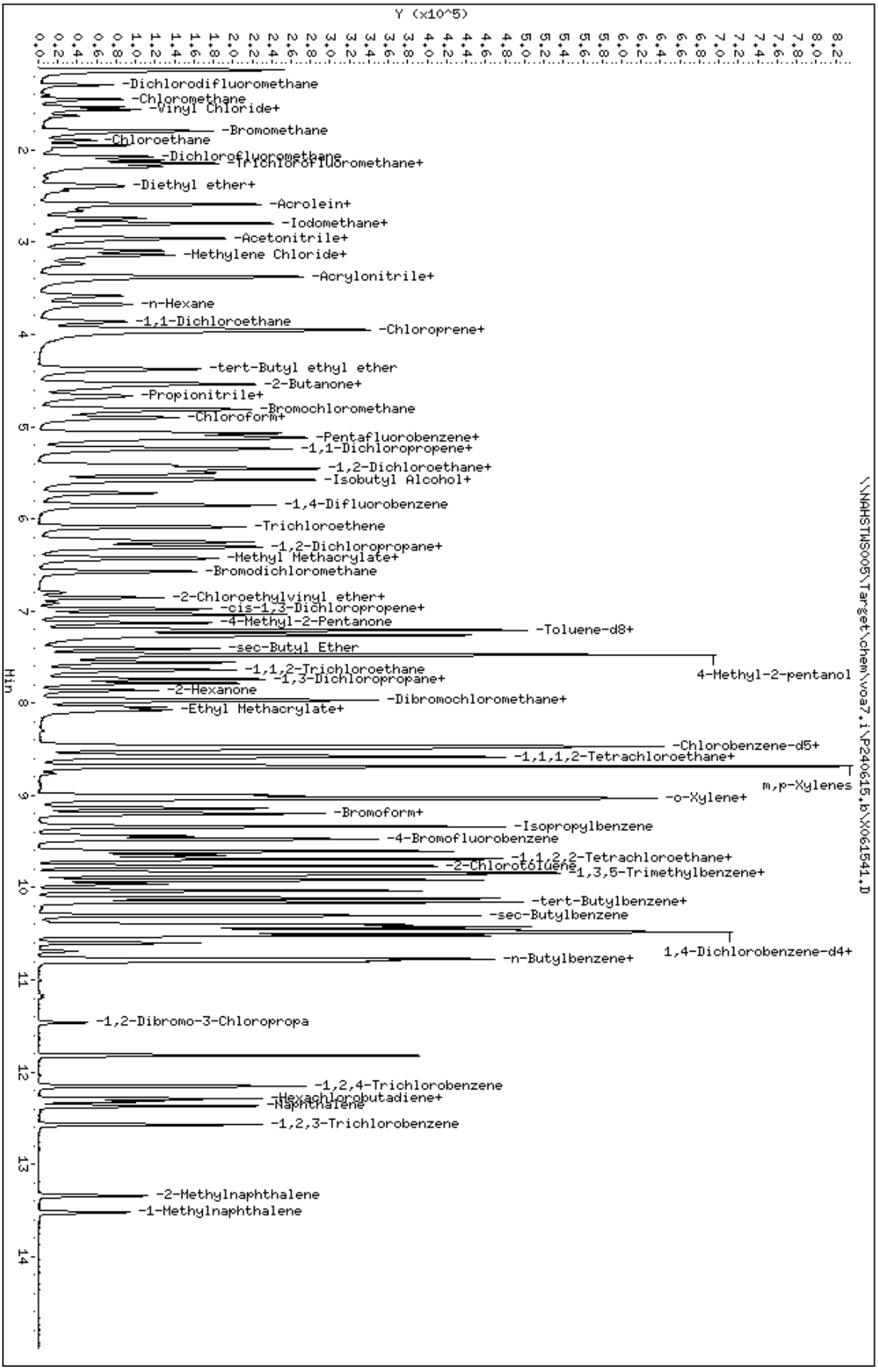
75	1,3,5-Trimethylbenzene	105	9.837	9.837 (0.941)	232688	50.0000	41.26
76	2-Chlorotoluene	91	9.766	9.766 (0.934)	199062	50.0000	41.72

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061541.D Page 3
Report Date: 12-Jul-2024 11:51

	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)	237207	50.0000	42.04
78	tert-Butylbenzene	119	10.116	10.116	(0.967)	195348	50.0000	42.23
79	1,2,4-Trimethylbenzene	105	10.158	10.158	(0.971)	234061	50.0000	41.96
81	sec-Butylbenzene	105	10.303	10.303	(0.985)	268136	50.0000	41.89
82	p-Isopropyltoluene	119	10.425	10.425	(0.997)	239701	50.0000	41.57
83	1,3-Dichlorobenzene	146	10.403	10.403	(0.995)	130331	50.0000	41.45
84	1,4-Dichlorobenzene	146	10.477	10.477	(1.002)	134410	50.0000	41.88
87	n-Butylbenzene	91	10.772	10.772	(1.030)	218434	50.0000	40.44
88	1,2-Dichlorobenzene	146	10.798	10.798	(1.033)	126222	50.0000	41.78
89	1,2-Dibromo-3-Chloropropane	75	11.464	11.464	(1.096)	11054	50.0000	35.59
90	1,2,4-Trichlorobenzene	180	12.152	12.152	(1.162)	73106	50.0000	36.89
91	Hexachlorobutadiene	225	12.290	12.290	(1.175)	37161	50.0000	39.14
92	Naphthalene	128	12.370	12.370	(1.183)	152868	50.0000	33.91
93	1,2,3-Trichlorobenzene	182	12.570	12.570	(1.202)	57278	50.0000	34.90
135	1,4-Dioxane	88	6.448	6.448	(1.256)	8885	1000.00	878.80(A)
138	Freon TF	101	2.593	2.593	(0.505)	54400	50.0000	42.83
139	Diethyl ether	59	2.377	2.377	(0.463)	43564	50.0000	47.90
140	1,3-Butadiene	54	1.560	1.560	(0.304)	35349	50.0000	43.87
141	Cyclohexane	56	5.107	5.107	(0.995)	95007	50.0000	42.75
147	Methylcyclohexane	83	6.248	6.248	(1.068)	87564	50.0000	41.65
132	n-Butanol	56	6.252	6.252	(1.218)	36481	1000.00	918.45(T)
131	Methyl Acrylate	55	4.686	4.686	(0.913)	63079	50.0000	45.98
133	Ethyl Acrylate	55	6.223	6.223	(1.212)	71677	50.0000	20.42
136	n-Hexane	57	3.673	3.673	(0.716)	62099	50.0000	39.12
142	Tetrahydrofuran	42	4.859	4.859	(0.947)	21663	100.000	93.13
148	Tert-butyl alcohol	59	3.236	3.236	(0.630)	64442	1000.00	700.02
149	Isopropyl alcohol	45	2.808	2.808	(0.547)	54388	1000.00	858.78
151	4-Methyl-2-pentanol	45	7.473	7.473	(0.883)	404412	1000.00	782.68
166	1,2,3-Trimethylbenzene	105	10.518	10.518	(1.006)	227050	50.0000	41.95
167	Ethanol	45	2.310	2.310	(0.450)	8770	1000.00	844.18
172	tert-Butyl formate	59	3.236	3.236	(0.630)	64442	100.000	83.07
173	3,3-Dimethyl-1-butanol	57	8.043	8.043	(0.950)	93227	1000.00	733.43
174	tert-Amyl methyl ether	73	5.576	5.576	(1.086)	174595	50.0000	45.82
175	tert-Butyl ethyl ether	59	4.377	4.377	(0.853)	193331	50.0000	45.45
157	2-Methylnaphthalene	142	13.341	13.341	(1.276)	51076	50.0000	31.13
156	Diisopropyl ether	45	3.949	3.949	(0.769)	231704	50.0000	46.77
171	1-Methylnaphthalene	142	13.521	13.521	(1.293)	42904	50.0000	29.57
130	Ethyl Acetate	43	3.943	3.943	(0.768)	337417	50.0000	38.86
176	tert-Amyl alcohol	59	5.509	5.509	(1.073)	63276	1000.00	854.61(A)
160	Epichlorohydrin	57	6.914	6.914	(1.181)	15609	200.000	169.33
161	Butyl acrylate	55	8.997	8.997	(1.063)	150988	50.0000	45.22
183	Isopropyl Acetate	43	5.573	5.573	(0.952)	180783	50.0000	42.22(A)
184	n-Amyl acetate	43	9.194	9.194	(1.086)	123080	50.0000	38.24(A)
185	Acetaldehyde	44	1.631	1.631	(0.318)	41663	200.000	207.24(A)
186	n-Butyl acetate	43	7.965	7.965	(0.941)	101581	50.0000	43.45(A)
187	2-Etyhlhexyl Acrylate	55	12.319	12.319	(1.178)	37600	50.0000	30.39(A)
188	Tetrahydrothiophene	60	7.959	7.959	(0.940)	71145	50.0000	45.76(A)
189	sec-Butyl Ether	57	7.406	7.406	(0.875)	66296	50.0000	50.58(A)
190	Isoprene	39	2.400	2.400	(0.468)	20878	50.0000	54.43(A)
191	2-Chloropropene	41	2.146	2.146	(0.418)	94749	50.0000	44.15(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: VSTD50
Sample Info: VSTD50;VSTD050;2;;CCV
Purge Volume: 5.0
Column phase: DB624

Instrument: voa7,i
Operator: AP
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061541.D
Inj Date : 16-JUN-2024 05:16
InstruID : voa7.i
LabSampID : VSTD50

1,2-Dichloroethane-d4 (17060-07-0)

Reason Code:

BEFORE

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48648
12-Jul-2024
11:38
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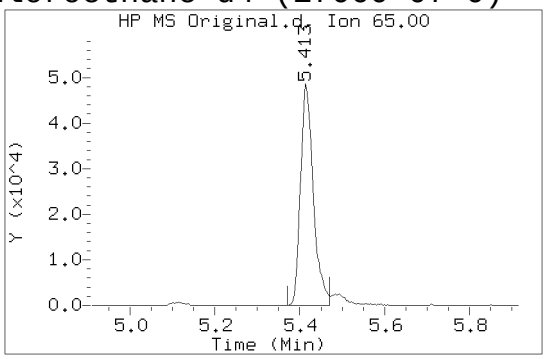
zaid



AFTER

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12-Jul-2024
11:51
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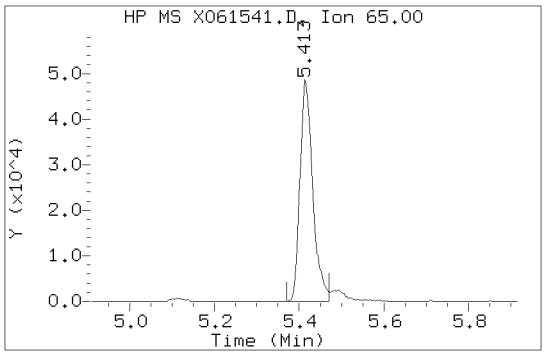

BEFORE

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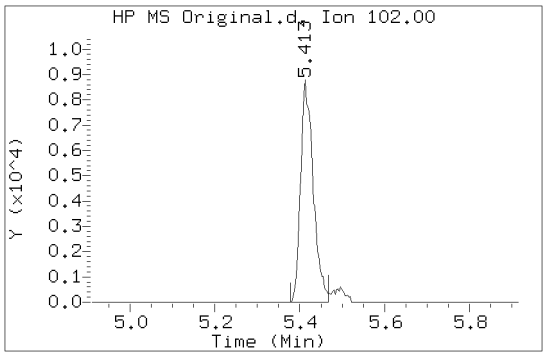

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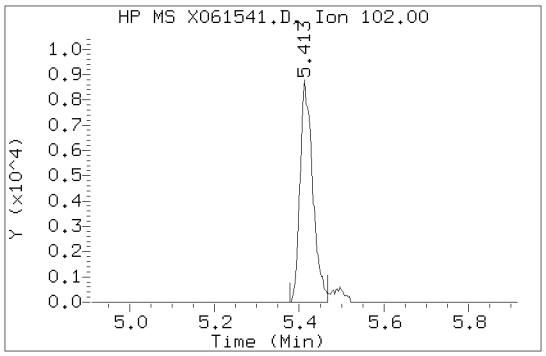

right solutions.
right partner.

RawData

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Workorder

HS24060747

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

07/22/2024

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\U240620.b\U62001.D Page 1
Report Date: 20-Jun-2024 11:18

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240620.b\U62001.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 20-JUN-2024 11:02
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\U240620.b\8260C.m
Meth Date : 19-Jun-2024 08:59 Quant Type: ISTD
Cal Date : 18-JUN-2024 11:55 Cal File: U61803.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	4.815	4.811	(1.000)	257920	50.0000		
	2 Dichlorodifluoromethane	85	1.021	1.156	(0.212)	10702	8.10929		
	3 Chloromethane	50	1.014	1.291	(0.211)	9354	0.96322		
	5 Vinyl Chloride	62	1.014	1.374	(0.211)	17034	8.39072		
	15 Iodomethane	142	2.472	2.457	(0.513)	1232	6.21403		
$	30 Dibromofluoromethane	113	4.747	4.744	(0.986)	96395	58.7541		(R)
	33 1,2-Dichloroethane	62	5.553	5.171	(1.000)	13302	4.31972		
	34 Carbon Tetrachloride	117	4.815	4.905	(0.867)	24018	11.5765		
$	35 1,2-Dichloroethane-d4	65	5.096	5.093	(1.058)	120650	61.5919		(R)
*	36 1,4-Difluorobenzene	114	5.553	5.550	(1.000)	380982	50.0000		
	42 1,2-Dichloropropane	63	5.553	6.007	(1.000)	80286	43.2407		
	45 4-Methyl-2-Pentanone	43	6.922	6.851	(0.846)	1912	1.25232		
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	340517	50.0000		
$	48 Toluene-d8	98	6.922	6.922	(0.846)	378496	64.2655		(R)
	49 Ethyl Methacrylate	69	6.922	7.289	(1.246)	1297	0.13078		
	58 1-Chlorohexane	55	8.185	8.185	(1.474)	3665	0.21049		
$	69 4-Bromofluorobenzene	95	9.193	9.197	(1.123)	133571	59.2548		(R)
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	174698	50.0000		
	71 1,2,3-Trichloropropane	75	9.193	9.362	(0.904)	65984	34.2955		
	86 Benzyl Chloride	91	10.314	10.315	(1.260)	82137	36.5103		

141	Cyclohexane	56	4.815	4.811 (1.000)	4898	0.19936
166	1,2,3-Trimethylbenzene	105	10.314	10.236 (1.014)	1444	0.70121

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
203 2-Ethylhexyl Acrylate	55	11.979	12.046	(1.178)	1696	1.31708	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62002.D Page 1
Report Date: 09-Jul-2024 16:04

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62002.D
Lab Smp Id: VSTD00.25 Client Smp ID: VSTD00.25
Inj Date : 20-JUN-2024 11:23
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\U240620.b\8260C.m
Meth Date : 09-Jul-2024 16:04 VOA9.i Quant Type: ISTD
Cal Date : 20-JUN-2024 11:23 Cal File: U62002.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

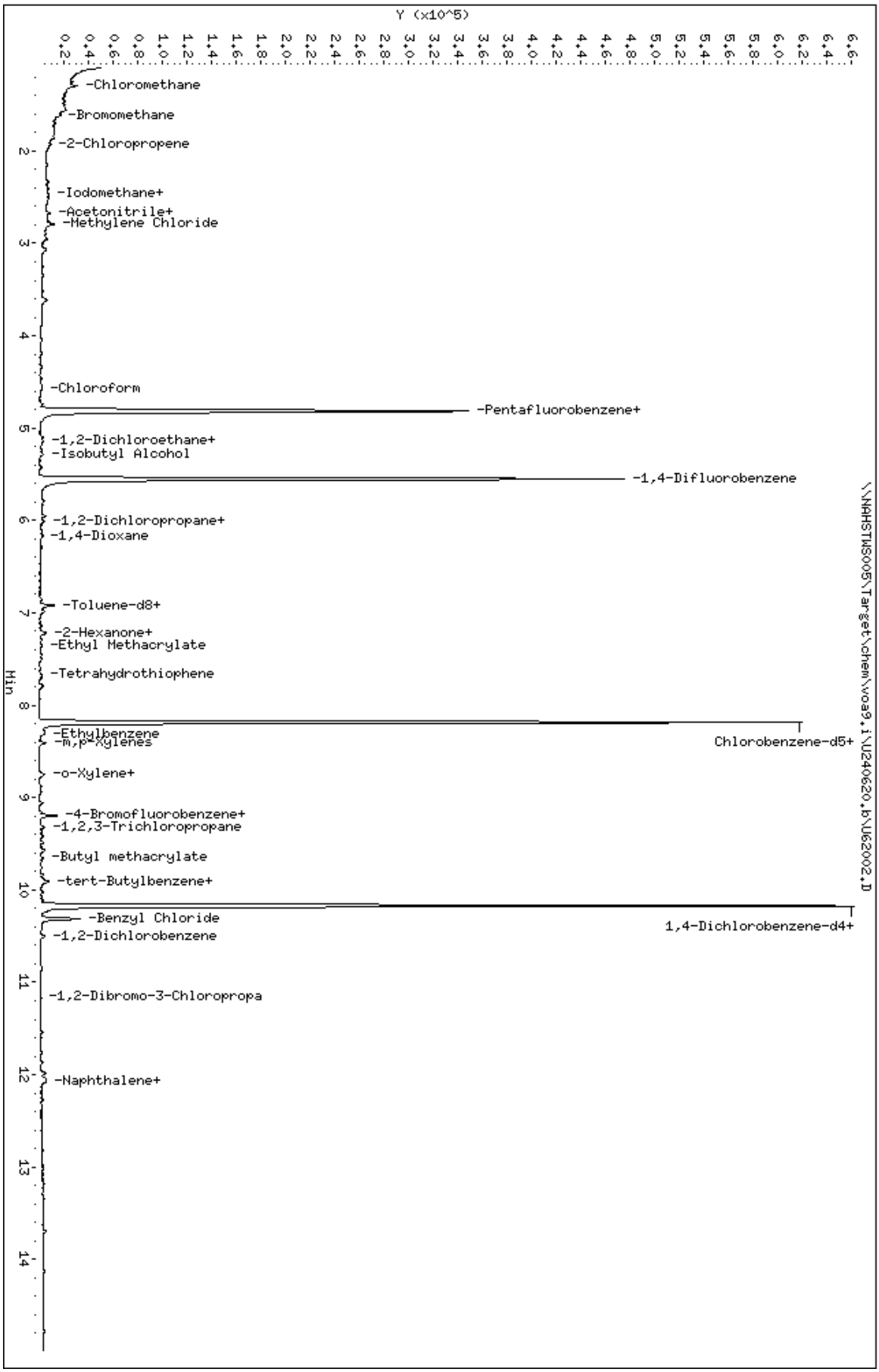
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Pentafluorobenzene	168	4.815	4.815	(1.000)	252013	50.0000	
	2 Dichlorodifluoromethane	85	1.037	1.037	(0.215)	1293	0.25000	0.71
	5 Vinyl Chloride	62	1.007	1.007	(0.209)	8422	0.25000	3.88
	12 Isobutyl Alcohol	43	5.288	5.288	(1.098)	1699	5.00000	6.82(Ta)
	13 Acetonitrile	39	2.667	2.667	(0.554)	870	2.50000	(a)
	14 Allyl Chloride	41	2.671	2.671	(0.555)	1866	0.25000	(a)
	15 Iodomethane	142	2.465	2.465	(0.512)	1069	0.50000	2.36(T)
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	1136	0.25000	0.67
	32 1,1-Dichloropropene	75	4.812	4.812	(0.867)	17943	0.25000	7.96
	34 Carbon Tetrachloride	117	4.815	4.815	(0.868)	23171	0.25000	12.27
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	1510	50.0000	0.70(T)
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	369287	50.0000	
	37 Benzene	78	5.141	5.141	(0.926)	2419	0.25000	0.31(a)
	42 1,2-Dichloropropane	63	6.004	6.004	(1.082)	656	0.25000	0.32(a)
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	325076	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	7499	50.0000	1.18(a)
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	690	0.25000	0.29(a)
	50 Toluene	91	6.982	6.982	(0.853)	2002	0.25000	0.27(a)
	58 1-Chlorohexane	55	8.185	8.185	(1.475)	3366	0.25000	1.66(a)
	61 Ethylbenzene	106	8.309	8.309	(1.015)	643	0.25000	0.28(a)

62 m,p-Xylenes	106	8.407	8.407 (1.027)	1224	0.50000	0.44(a)
63 o-Xylene	106	8.748	8.748 (1.069)	607	0.25000	0.22(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
	64 Styrene	104	8.763	8.763	(1.071)	934	0.25000	0.20(a)
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	3971	50.0000	1.60(a)
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	164222	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	607	0.25000	1.11(a)
	78 tert-Butylbenzene	119	9.839	9.839	(0.967)	877	0.25000	0.20(Ta)
	79 1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	1067	0.25000	0.20(a)
	83 1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	909	0.25000	0.25(a)
	86 Benzyl Chloride	91	10.315	10.315	(1.260)	21955	0.25000	2.75(a)
	88 1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	961	0.25000	0.27(a)
	89 1,2-Dibromo-3-Chloropropane	155	11.162	11.162	(1.097)	23	0.25000	0.33(aM)
	92 Naphthalene	128	12.076	12.076	(1.187)	1179	0.25000	2.18(a)
	141 Cyclohexane	56	4.812	4.812	(0.999)	5136	0.25000	1.18(a)
	147 Methylcyclohexane	55	5.947	5.947	(1.072)	1403	0.25000	0.35(a)
	149 Isopropyl alcohol	45	2.559	2.559	(0.531)	1216	5.00000	(Ta)
	166 1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	1606	0.25000	0.34(a)
	151 4-Methyl-2-pentanol	45	7.218	7.218	(1.301)	3353	5.00000	6.58
	134 Cyclohexanone	55	9.156	9.156	(0.900)	662	5.00000	(Ta)
	203 2-Ethylhexyl Acrylate	55	12.046	12.046	(1.184)	1668	0.25000	2.21(a)
	204 Tetrahydrothiophene	60	7.672	7.672	(0.937)	799	0.25000	0.43(aA)
	205 sec-Butyl Ether	57	7.214	7.214	(0.881)	876	0.25000	0.24(aA)
	206 2-Chloropropene	41	1.925	1.925	(0.400)	1159	0.25000	0.44(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.
M - Compound response manually integrated.



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Sample Info: VSTD00.25;VSTD00.25;1;1
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

Page 1

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62002.D
Inj Date : 20-JUN-2024 11:23
InstruID : VOA9.i
LabSampID : VSTD00.25

1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

BEFORE
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29-Jun-2024
12:15
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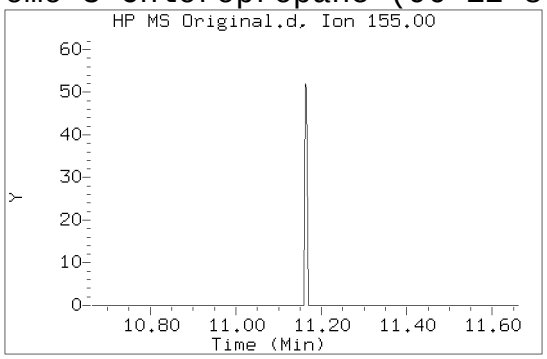
zaid



AFTER
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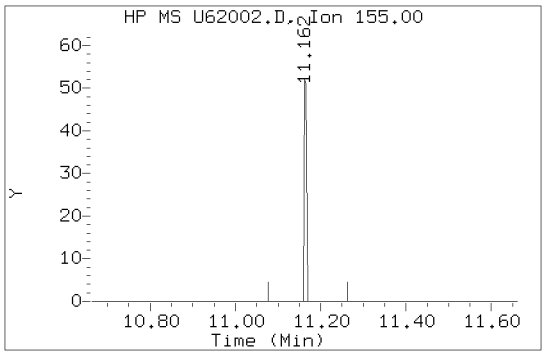
09-Jul-2024
16:04



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29-Jun-2024
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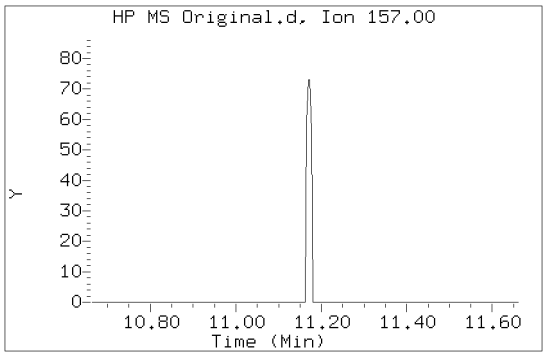

AFTER
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HEIGHT
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09-Jul-2024
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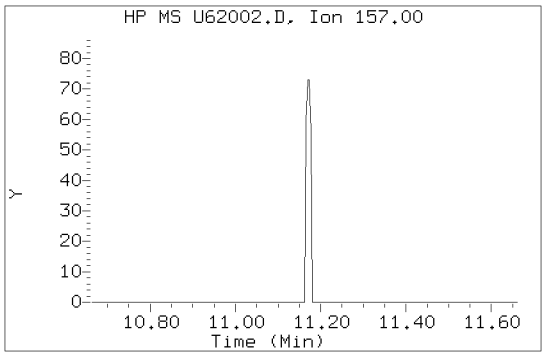

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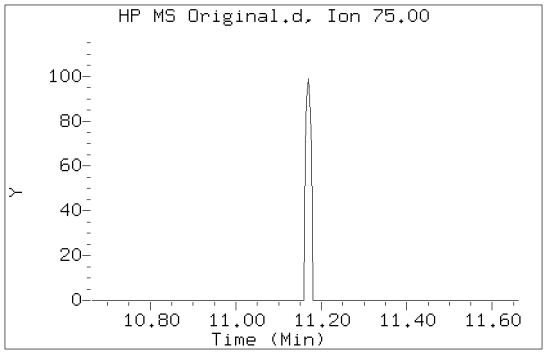

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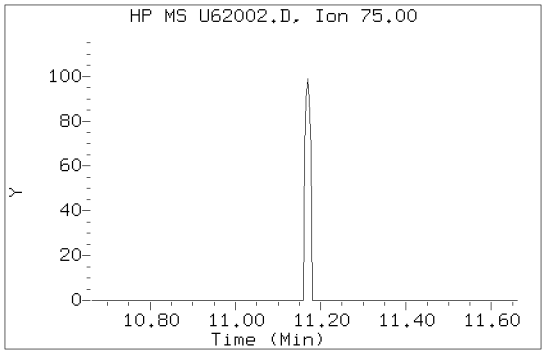

1,4-Dioxane ()

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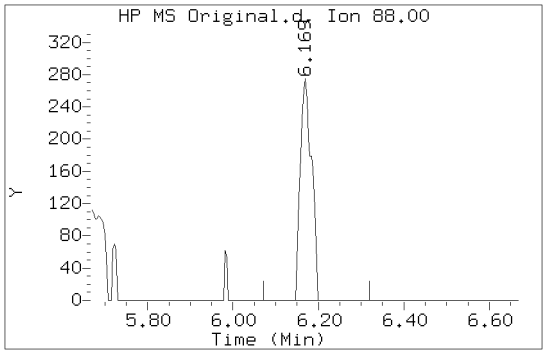

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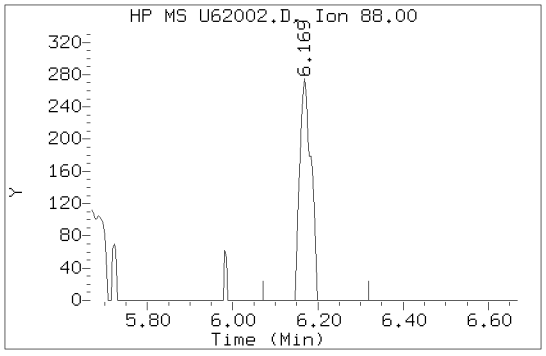

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Inj Date : 20-JUN-2024 11:23
InstruID : VOA9.i
LabSampID : VSTD00.25

1,4-Dioxane ()

Reason Code:

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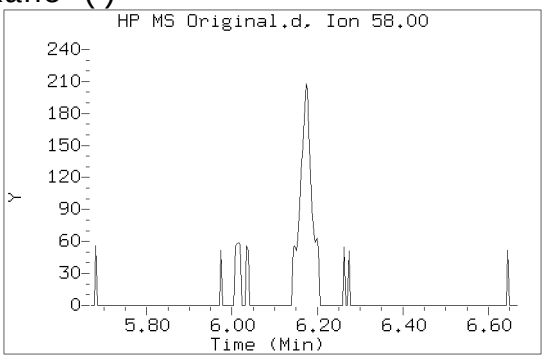

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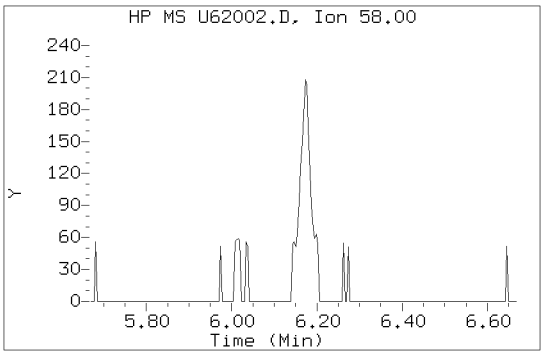

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Report Date: 29-Jun-2024 12:19

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62003.D
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Smp Info : VSTD00.5;VSTD00.5;1;2
Misc Info : V9;WATER;0;1;
Comment   :
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Meth Date : 29-Jun-2024 12:19 VOA9.i Quant Type: ISTD
Cal Date : 20-JUN-2024 14:36 Cal File: U62011.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: NAHSTW7014

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)	236632	50.0000	
	2 Dichlorodifluoromethane	85	1.171	1.171	(0.243)	731	0.50000	0.43(aM)
	3 Chloromethane	50	1.303	1.303	(0.271)	7597	0.50000	0.50
	4 Propionitrile	54	4.343	4.343	(0.902)	1664	5.00000	0.96(aM)
	5 Vinyl Chloride	62	1.385	1.385	(0.288)	1139	0.50000	0.66(M)
	8 Trichlorofluoromethane	101	1.895	1.895	(0.394)	1012	0.50000	0.44(a)
	11 1,1-Dichloroethene	96	2.333	2.333	(0.485)	717	0.50000	0.51(M)
	12 Isobutyl Alcohol	43	5.287	5.287	(1.098)	2668	10.0000	11.42(a)
	13 Acetonitrile	39	2.675	2.675	(0.555)	1086	5.00000	(a)
	14 Allyl Chloride	41	2.675	2.675	(0.555)	3115	0.50000	0.24(a)
	15 Iodomethane	142	2.472	2.472	(0.513)	1369	1.00000	3.09(T)
	16 Acrylonitrile	53	3.072	3.072	(0.638)	1025	1.00000	1.27
	17 Methylene Chloride	84	2.798	2.798	(0.581)	2895	0.50000	0.15(a)
	18 Methyl tert-butyl ether	73	3.083	3.083	(0.640)	2745	0.50000	1.08
	19 Carbon Disulfide	76	2.525	2.525	(0.524)	3918	1.00000	1.02
	20 trans-1,2-Dichloroethene	96	3.061	3.061	(0.636)	1102	0.50000	0.14(Ta)
	21 Vinyl Acetate	43	4.350	4.350	(0.903)	1114	1.00000	1.03(M)
	23 Chloroprene	53	3.615	3.615	(0.751)	1330	0.50000	0.31(a)
	24 2-Butanone	43	4.279	4.279	(0.889)	1392	1.00000	1.84(M)
	25 Methacrylonitrile	41	4.500	4.500	(0.935)	715	0.50000	1.50(aM)

26 2,2-Dichloropropane	77	4.182	4.182 (0.868)	1204	0.50000	1.10(M)
27 cis-1,2-Dichloroethene	96	4.197	4.197 (0.872)	1138	0.50000	0.29(a)

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62003.D Page 2
Report Date: 29-Jun-2024 12:19

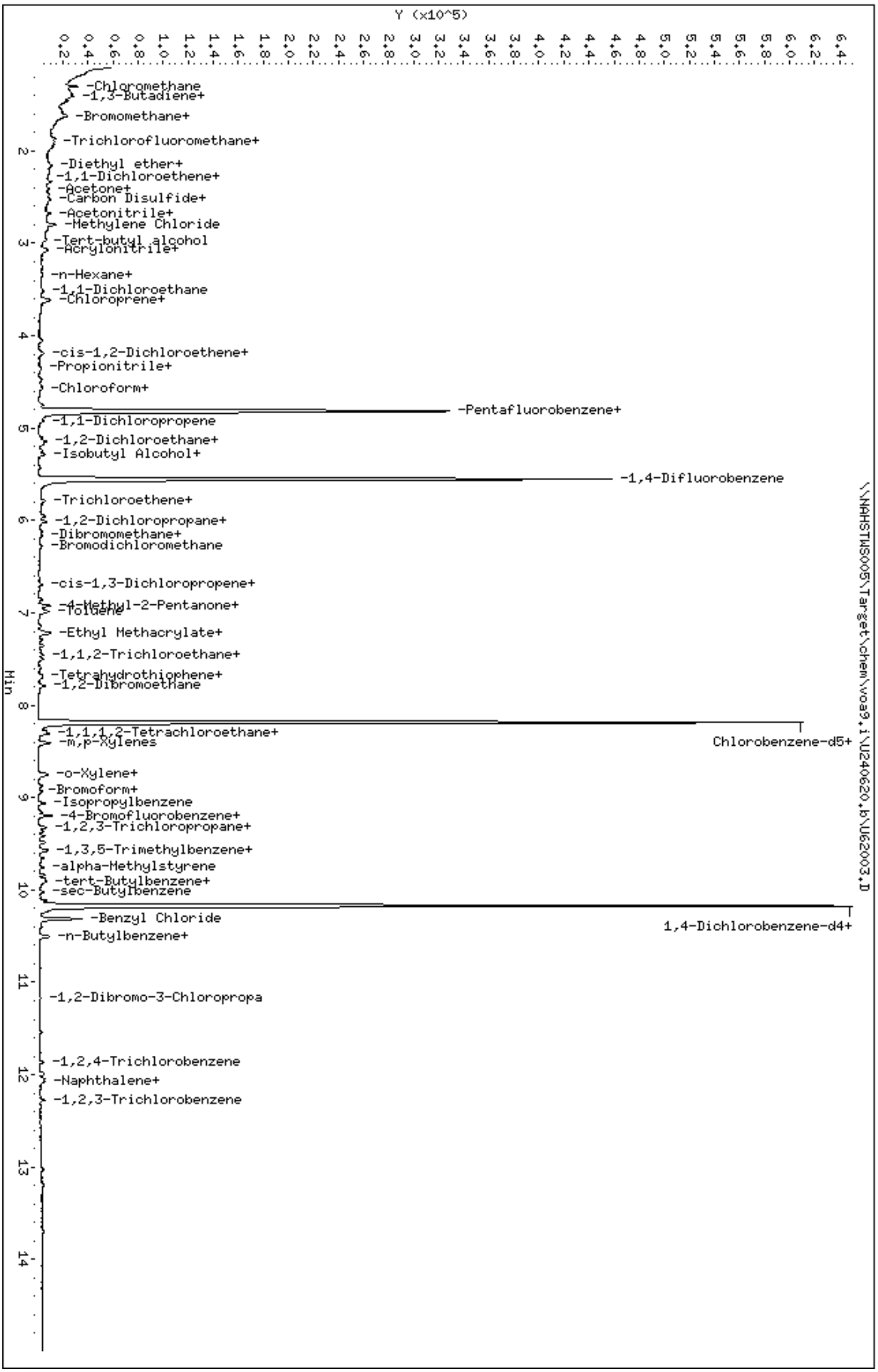
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
29	Bromochloromethane	128	4.474	4.474	(0.929)	578	0.50000	0.61(M)
$ 30	Dibromofluoromethane	113	4.751	4.751	(0.987)	1351	0.50000	0.85
31	1,1,1-Trichloroethane	97	4.744	4.744	(0.985)	1050	0.50000	0.47(a)
32	1,1-Dichloropropene	75	4.924	4.924	(0.887)	1295	0.50000	0.60(M)
34	Carbon Tetrachloride	117	4.909	4.909	(0.884)	853	0.50000	0.47(aM)
$ 35	1,2-Dichloroethane-d4	65	5.100	5.100	(1.059)	1847	0.50000	0.92(T)
* 36	1,4-Difluorobenzene	114	5.554	5.554	(1.000)	349852	50.0000	
37	Benzene	78	5.141	5.141	(0.926)	4827	0.50000	0.67
38	Trichloroethene	130	5.790	5.790	(1.043)	987	0.50000	0.56(aM)
39	Bromodichloromethane	83	6.281	6.281	(1.131)	1081	0.50000	0.53(aM)
40	Methyl Methacrylate	41	5.835	5.835	(1.212)	269	0.50000	0.43(aM)
42	1,2-Dichloropropane	63	6.011	6.011	(1.082)	1221	0.50000	0.64(a)
44	Dibromomethane	93	6.116	6.116	(1.101)	723	0.50000	0.64(a)
45	4-Methyl-2-Pentanone	43	6.854	6.854	(0.837)	2018	1.00000	1.15(a)
46	cis-1,3-Dichloropropene	75	6.689	6.689	(1.205)	1255	0.50000	0.52(aM)
* 47	Chlorobenzene-d5	117	8.185	8.185	(1.000)	315910	50.0000	
$ 48	Toluene-d8	98	6.922	6.922	(0.846)	5908	0.50000	0.96(a)
49	Ethyl Methacrylate	69	7.293	7.293	(1.313)	1395	0.50000	0.62(a)
50	Toluene	91	6.982	6.982	(0.853)	4147	0.50000	0.57(a)
51	trans-1,3-Dichloropropene	75	7.203	7.203	(1.297)	864	0.50000	2.59(a)
52	2-Hexanone	43	7.218	7.218	(0.882)	2202	1.00000	1.02(a)
53	1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	876	0.50000	0.62(a)
54	1,3-Dichloropropane	76	7.499	7.499	(0.916)	1760	0.50000	0.60(a)
55	Dibromochloromethane	129	7.690	7.690	(0.940)	629	0.50000	0.43(aM)
56	Tetrachloroethene	164	7.458	7.458	(0.911)	635	0.50000	0.47(a)
57	1,2-Dibromoethane	107	7.788	7.788	(0.951)	917	0.50000	0.59(a)
58	1-Chlorohexane	55	8.185	8.185	(1.474)	3858	0.50000	2.17(a)
60	1,1,1,2-Tetrachloroethane	131	8.286	8.286	(1.012)	868	0.50000	0.56(a)
61	Ethylbenzene	106	8.309	8.309	(1.015)	1196	0.50000	0.53(a)
62	m,p-Xylenes	106	8.410	8.410	(1.027)	2596	1.00000	0.97(a)
63	o-Xylene	106	8.751	8.751	(1.069)	1290	0.50000	0.49(a)
64	Styrene	104	8.762	8.762	(1.071)	2162	0.50000	0.49(a)
66	Bromoform	173	8.916	8.916	(1.089)	363	0.50000	1.32(aM)
67	Isopropylbenzene	105	9.062	9.062	(1.107)	2892	0.50000	0.44(a)
68	1,1,2,2-Tetrachloroethane	83	9.332	9.332	(0.917)	1485	0.50000	0.41(aM)
$ 69	4-Bromofluorobenzene	95	9.197	9.197	(1.124)	3166	0.50000	1.31(a)
* 70	1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	162478	50.0000	
71	1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	1417	0.50000	1.50(a)
72	trans-1,4-Dichloro-2-butene	53	9.381	9.381	(1.146)	303	0.50000	0.68(aM)
73	n-Propylbenzene	91	9.411	9.411	(0.925)	3129	0.50000	0.44(a)
74	Bromobenzene	156	9.321	9.321	(0.916)	1148	0.50000	0.60(a)
75	1,3,5-Trimethylbenzene	105	9.565	9.565	(0.940)	2304	0.50000	2.10(a)
76	2-Chlorotoluene	91	9.486	9.486	(0.933)	2815	0.50000	0.59(a)
77	4-Chlorotoluene	91	9.580	9.580	(0.942)	2972	0.50000	0.55(a)
78	tert-Butylbenzene	119	9.838	9.838	(0.967)	1816	0.50000	0.42(a)
79	1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	2487	0.50000	0.48(aM)
81	sec-Butylbenzene	105	10.022	10.022	(0.985)	2503	0.50000	0.43(a)
82	p-Isopropyltoluene	119	10.149	10.149	(0.998)	2165	0.50000	2.02(a)
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	2314	0.50000	0.65(a)
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	2680	0.50000	0.17(a)
86	Benzyl Chloride	91	10.314	10.314	(1.260)	22557	0.50000	3.22(a)
87	n-Butylbenzene	91	10.494	10.494	(1.032)	1966	0.50000	1.75(a)

88 1,2-Dichlorobenzene	146	10.509	10.509 (1.033)	2385	0.50000	0.68(a)
89 1,2-Dibromo-3-Chloropropane	155	11.177	11.177 (1.099)	119	0.50000	0.73(aM)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
90	1,2,4-Trichlorobenzene	180	11.863	11.863	(1.166)	1239	0.50000	0.58(aM)
91	Hexachlorobutadiene	225	12.001	12.001	(1.180)	463	0.50000	0.49(aM)
92	Naphthalene	128	12.076	12.076	(1.187)	2273	0.50000	2.40(a)
93	1,2,3-Trichlorobenzene	180	12.275	12.275	(1.207)	1018	0.50000	0.52(aM)
146	Methyl acetate	43	2.720	2.720	(0.565)	1084	0.50000	(aM)
141	Cyclohexane	56	4.815	4.815	(1.000)	5248	0.50000	1.37(a)
147	Methylcyclohexane	55	5.947	5.947	(1.071)	2050	0.50000	0.55(a)
132	n-Butanol	56	5.835	5.835	(1.212)	741	10.0000	16.35(aM)
136	n-Hexane	57	3.346	3.346	(0.695)	702	0.50000	0.46(Ta)
148	Tert-butyl alcohol	59	2.971	2.971	(0.617)	2276	10.0000	4.43(a)
149	Isopropyl alcohol	45	2.570	2.570	(0.534)	1890	10.0000	3.08(Ta)
156	Diisopropyl ether	45	3.619	3.619	(0.752)	3700	0.50000	0.64(aM)
162	Butyl acrylate	55	8.740	8.740	(1.068)	1564	0.50000	0.53(a)
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	4384	0.50000	0.62(Ta)
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	2690	0.50000	0.57(a)
167	Ethanol	45	2.086	2.086	(0.433)	318	10.0000	(aM)
172	tert-Butyl formate	59	5.242	5.242	(1.089)	1751	1.00000	0.55(aM)
151	4-Methyl-2-pentanol	45	7.218	7.218	(1.300)	6075	10.0000	12.59
140	1,3-Butadiene	54	1.407	1.407	(0.292)	944	0.50000	0.46(a)
182	Epichlorohydrin	57	6.637	6.637	(1.195)	129	2.00000	7.01(M)
M 94	1,2-Dichloroethylene (total)	96				2240	1.00000	(a)
130	Ethyl Acetate	43	4.534	4.534	(0.942)	659	0.50000	(aM)
131	Methyl Acrylate	55	4.380	4.380	(0.910)	1242	0.50000	0.63(aM)
189	n-Butyl acetate	43	7.709	7.709	(0.942)	1281	0.50000	0.50(aM)
134	Cyclohexanone	55	9.156	9.156	(0.900)	1334	10.0000	7.91(Ta)
185	Isoprene	39	2.157	2.157	(0.448)	195	0.50000	0.56(aM)
188	Isopropyl acetate	43	5.287	5.287	(0.952)	2814	0.50000	0.60(aM)
150	Allyl alcohol	57	3.346	3.346	(0.695)	702	10.0000	9.25
200	Dimethyl Disulfide	94	6.749	6.749	(0.825)	387	0.50000	1.63(aM)
133	Ethyl Acrylate	55	5.947	5.947	(1.235)	2148	0.50000	0.57(aM)
203	2-Ethylhexyl Acrylate	55	12.046	12.046	(1.184)	1065	0.50000	1.86(a)
204	Tetrahydrothiophene	60	7.675	7.675	(0.938)	1037	0.50000	0.57(aA)
205	sec-Butyl Ether	57	7.214	7.214	(0.881)	2158	0.50000	0.61(aAM)
187	n-Amyl acetate	43	8.935	8.935	(1.092)	1387	0.50000	0.49(aM)
206	2-Chloropropene	41	1.929	1.929	(0.401)	1472	0.50000	0.60(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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Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62003.D
Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Dichlorodifluoromethane (75-71-8)

Reason Code:

BEFORE

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29-Jun-2024
12:15
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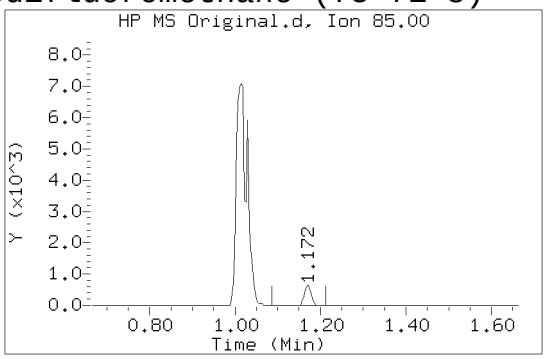

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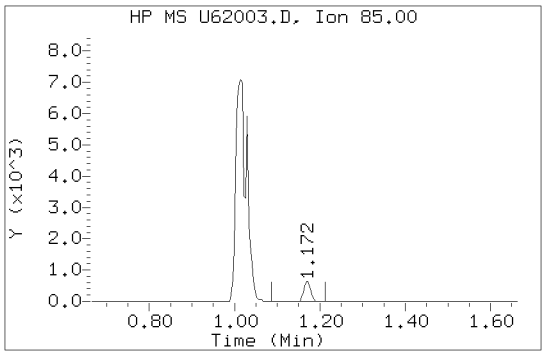

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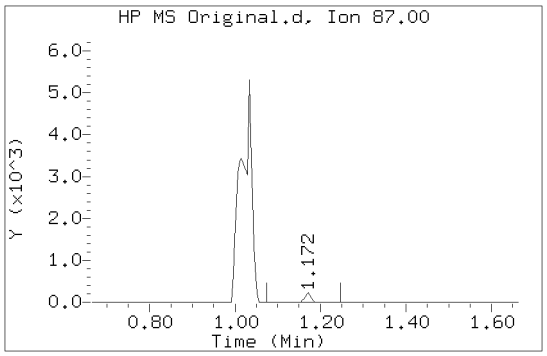

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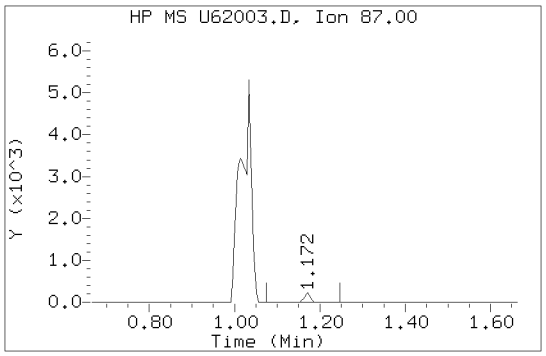

Vinyl Chloride (75-01-4)

Reason Code:

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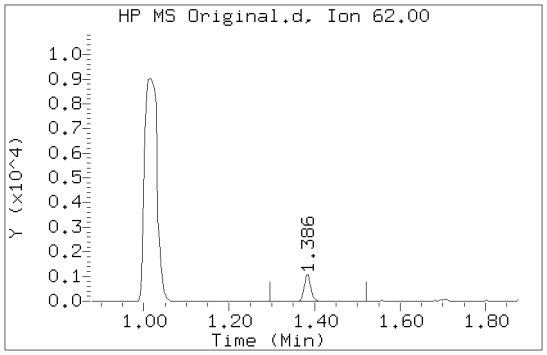

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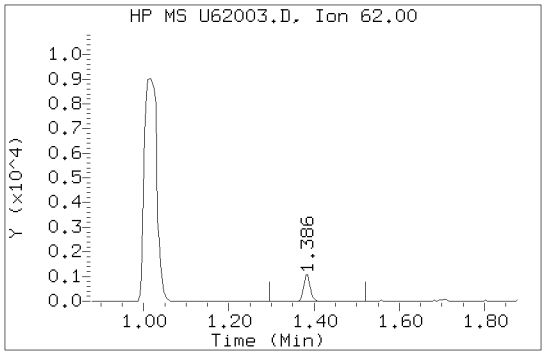

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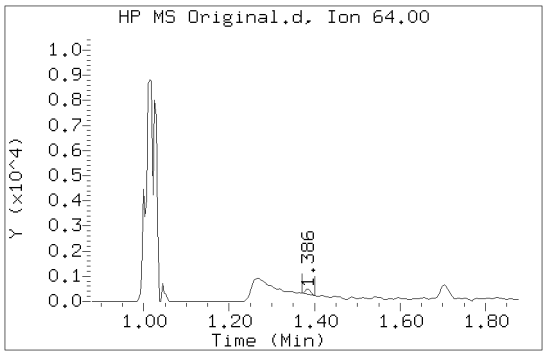
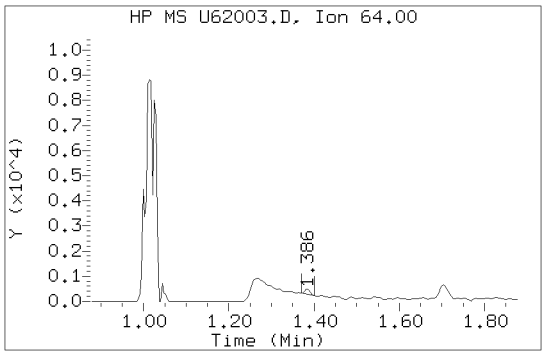


AFTER

MASS
64
AREA
184
HEIGHT
220
29-Jun-2024
12:18
s
zaid



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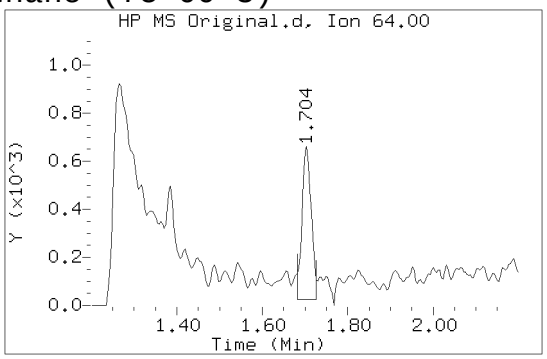
Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Chloroethane (75-00-3)

Reason Code:

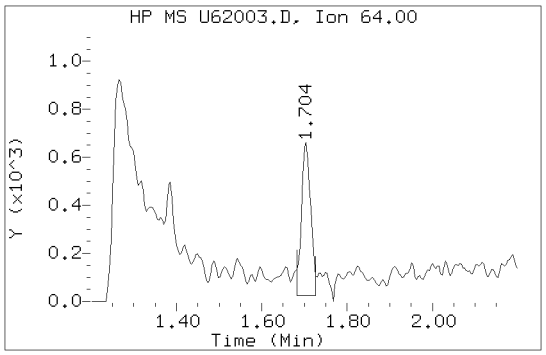
BEFORE

MASS
64
AREA
989
HEIGHT
639
29-Jun-2024
12:15
s
zaid



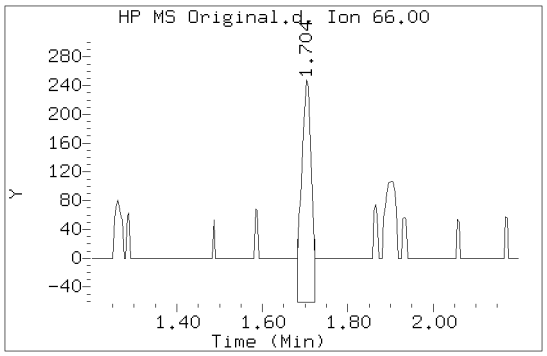
AFTER

MASS
64
AREA
989
HEIGHT
639
29-Jun-2024
12:18
s
zaid



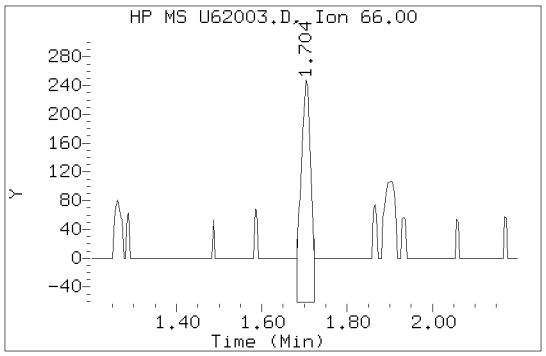
BEFORE

MASS
66
AREA
505
HEIGHT
309
29-Jun-2024
12:15
s
zaid



AFTER

MASS
66
AREA
505
HEIGHT
309
29-Jun-2024
12:18
s
zaid

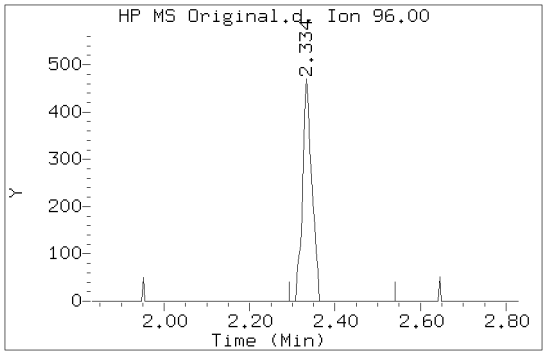


1,1-Dichloroethene (75-35-4)

Reason Code:

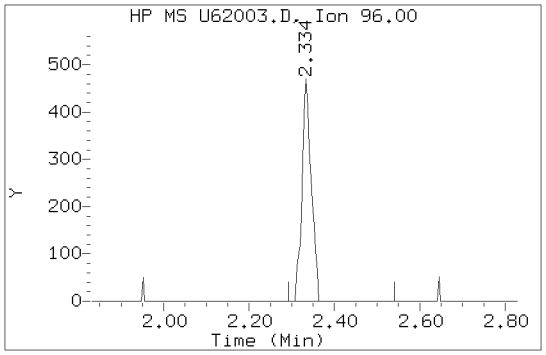
BEFORE

MASS
96
AREA
717
HEIGHT
470
29-Jun-2024
12:15
s
zaid



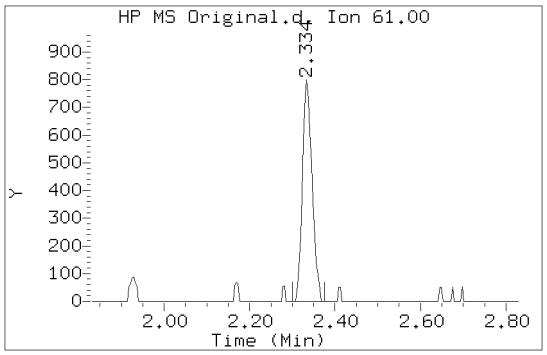
AFTER

MASS
96
AREA
717
HEIGHT
470
29-Jun-2024
12:18
s
zaid



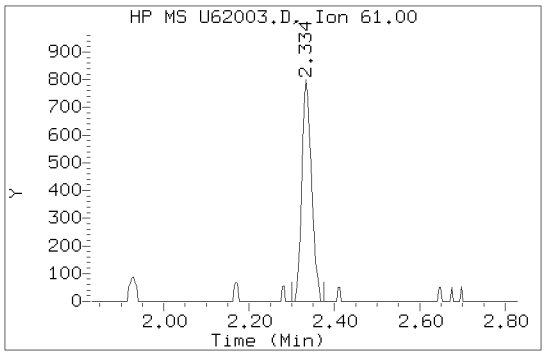
BEFORE

MASS
61
AREA
1267
HEIGHT
800
29-Jun-2024
12:15
s
zaid



AFTER

MASS
61
AREA
1267
HEIGHT
800
29-Jun-2024
12:18
s
zaid



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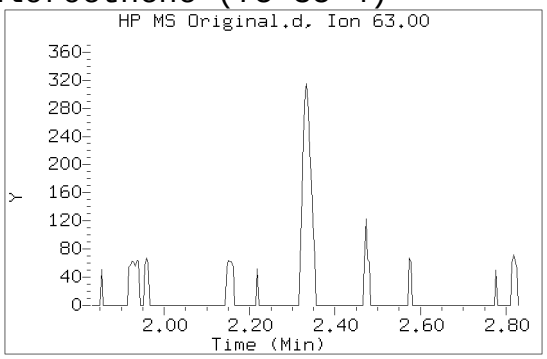
Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

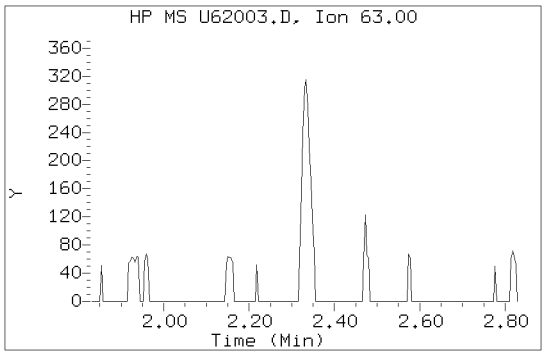
1,1-Dichloroethene (75-35-4)

Reason Code:

BEFORE
MASS
63
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



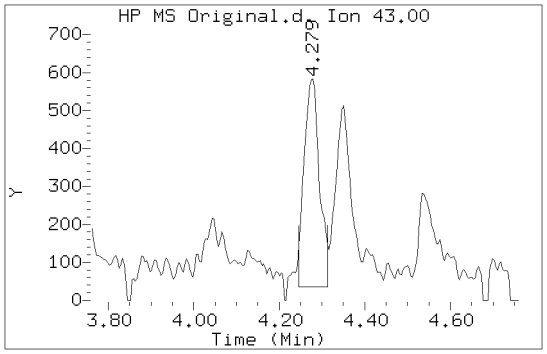
AFTER
MASS
63
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



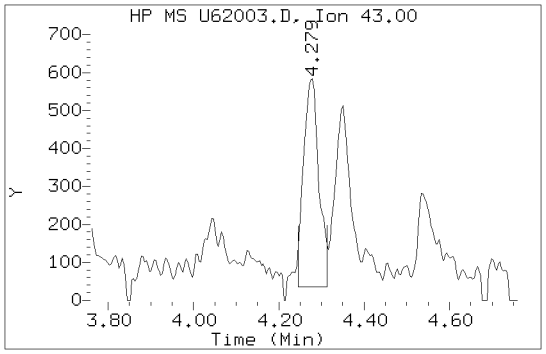
2-Butanone (78-93-3)

Reason Code:

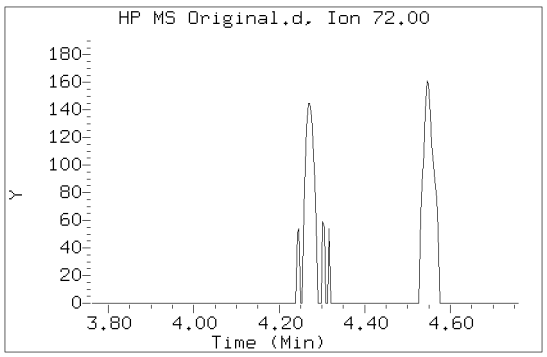
BEFORE
MASS
43
AREA
1392
HEIGHT
548
29-Jun-2024
12:15
s
zaid



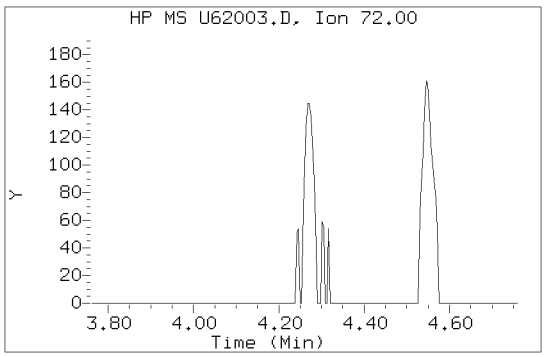
AFTER
MASS
43
AREA
1392
HEIGHT
548
29-Jun-2024
12:18
s
zaid



BEFORE
MASS
72
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



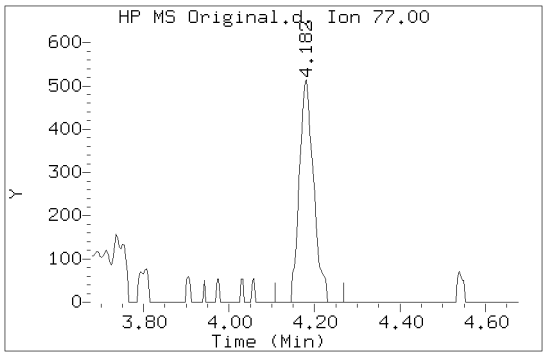
AFTER
MASS
72
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



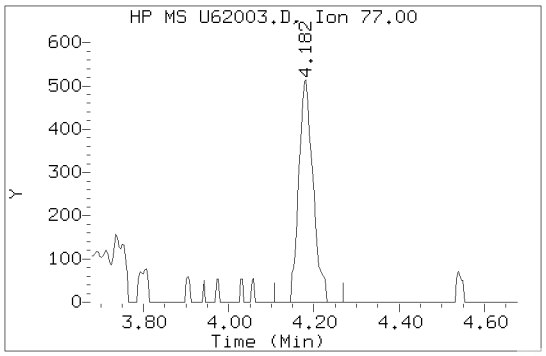
2,2-Dichloropropane (594-20-7)

Reason Code:

BEFORE
MASS
77
AREA
1204
HEIGHT
514
29-Jun-2024
12:15
s
zaid



AFTER
MASS
77
AREA
1204
HEIGHT
514
29-Jun-2024
12:18
s
zaid



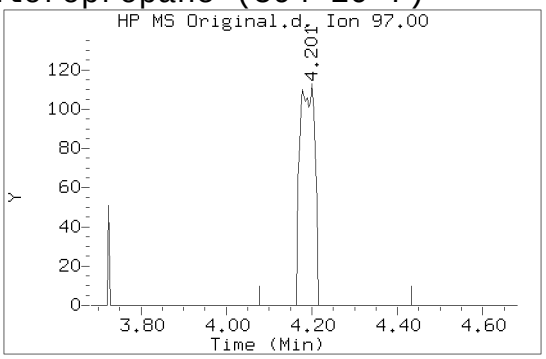
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62003.D
Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

2,2-Dichloropropane (594-20-7)

Reason Code:

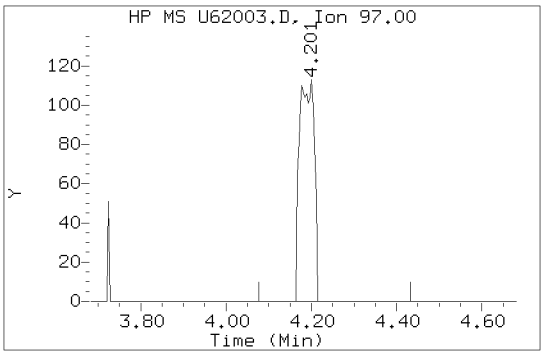
BEFORE

MASS
97
AREA
274
HEIGHT
113
29-Jun-2024
12:15
s
zaid



AFTER

MASS
97
AREA
274
HEIGHT
113
29-Jun-2024
12:18
s
zaid

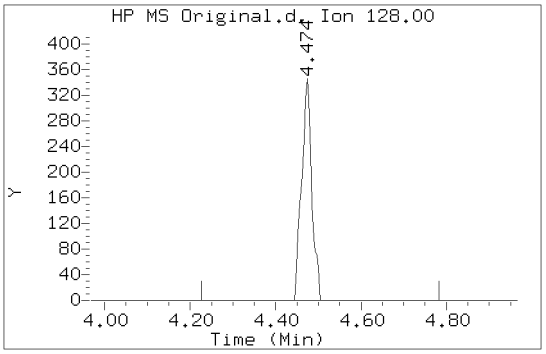


Bromochloromethane (74-97-5)

Reason Code:

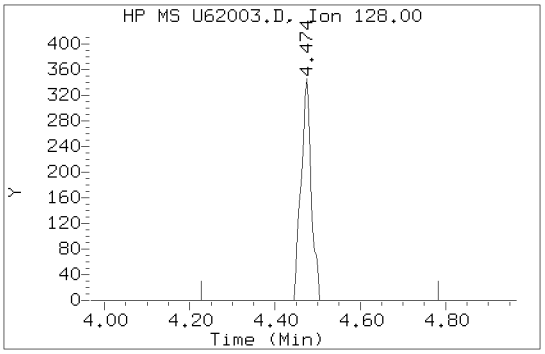
BEFORE

MASS
128
AREA
578
HEIGHT
346
29-Jun-2024
12:15
s
zaid



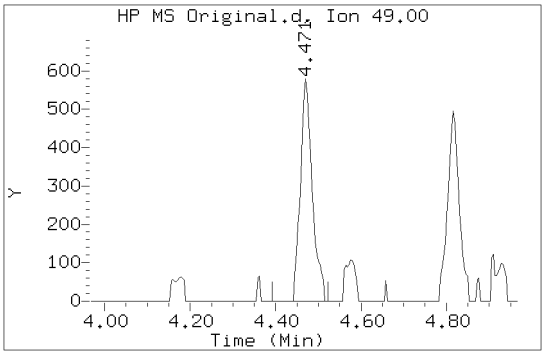
AFTER

MASS
128
AREA
578
HEIGHT
346
29-Jun-2024
12:18
s
zaid



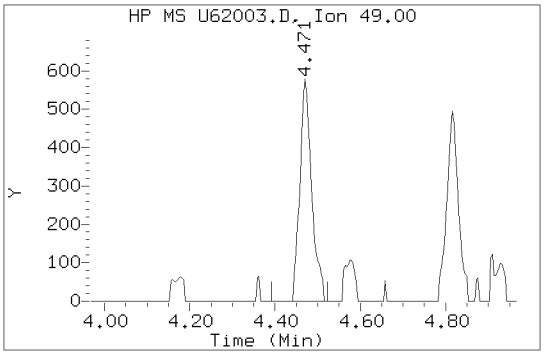
BEFORE

MASS
49
AREA
1131
HEIGHT
579
29-Jun-2024
12:15
s
zaid



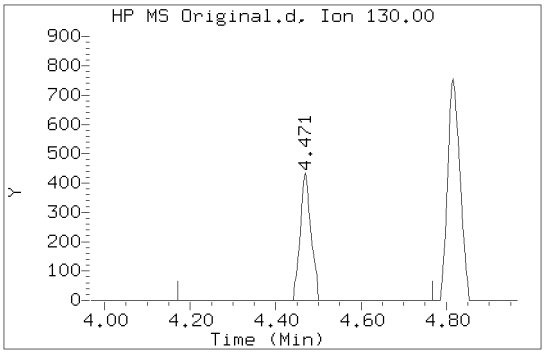
AFTER

MASS
49
AREA
1131
HEIGHT
579
29-Jun-2024
12:18
s
zaid



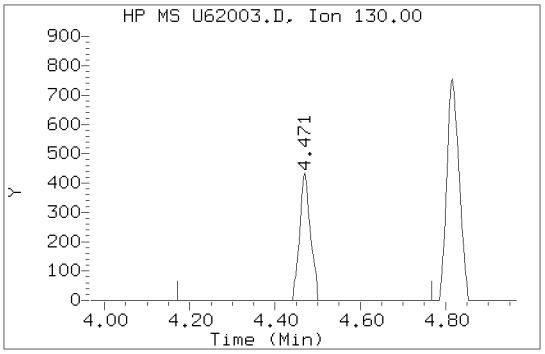
BEFORE

MASS
130
AREA
775
HEIGHT
434
29-Jun-2024
12:15
s
zaid



AFTER

MASS
130
AREA
775
HEIGHT
434
29-Jun-2024
12:18
s
zaid



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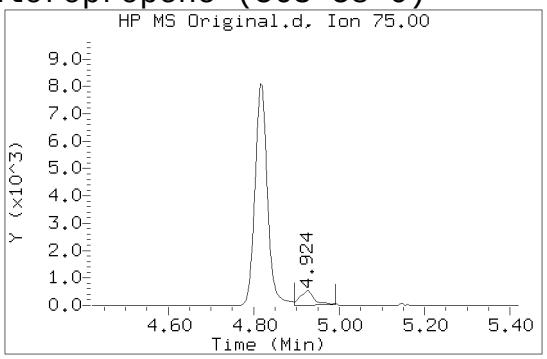
Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

1,1-Dichloropropene (563-58-6)

Reason Code:

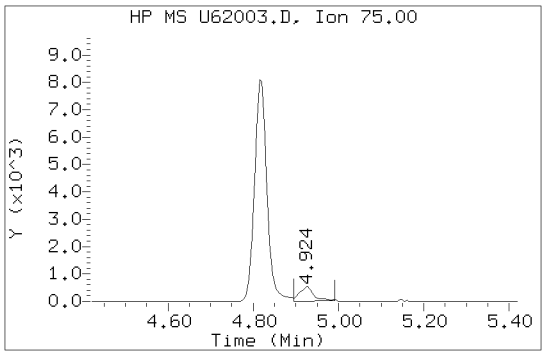
BEFORE

MASS
75
AREA
1295
HEIGHT
533
29-Jun-2024
12:15
s
zaid



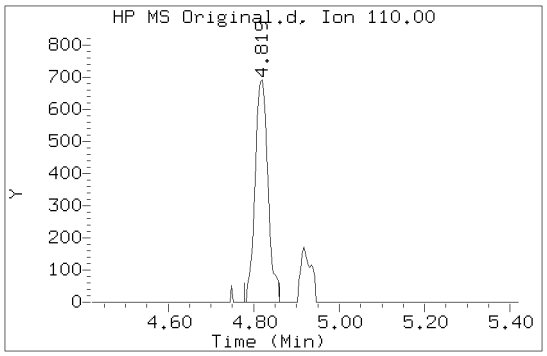
AFTER

MASS
75
AREA
1295
HEIGHT
533
29-Jun-2024
12:18
s
zaid



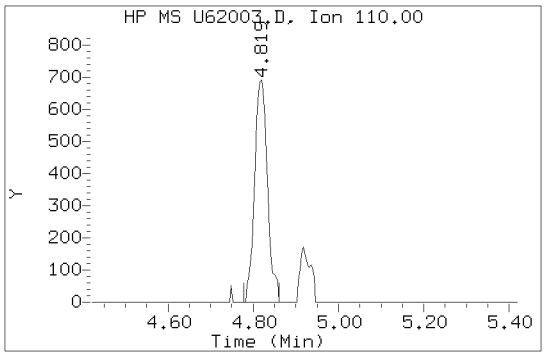
BEFORE

MASS
110
AREA
1447
HEIGHT
691
29-Jun-2024
12:15
s
zaid



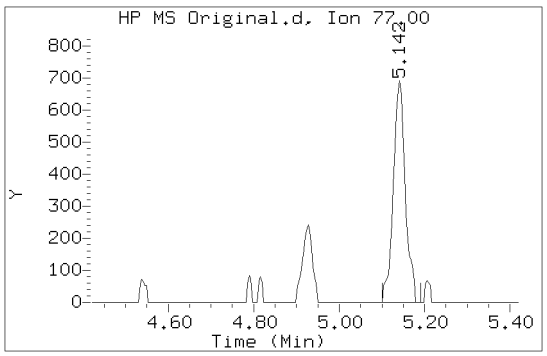
AFTER

MASS
110
AREA
1447
HEIGHT
691
29-Jun-2024
12:18
s
zaid



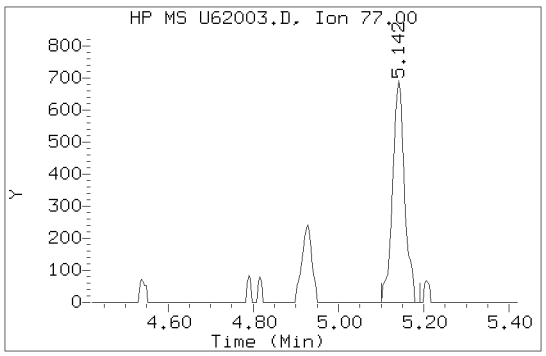
BEFORE

MASS
77
AREA
1342
HEIGHT
691
29-Jun-2024
12:15
s
zaid



AFTER

MASS
77
AREA
1342
HEIGHT
691
29-Jun-2024
12:18
s
zaid

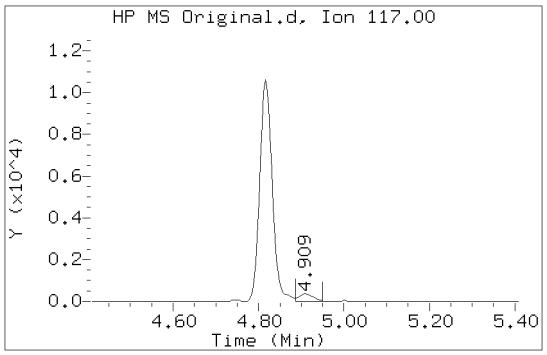


Carbon Tetrachloride (56-23-5)

Reason Code:

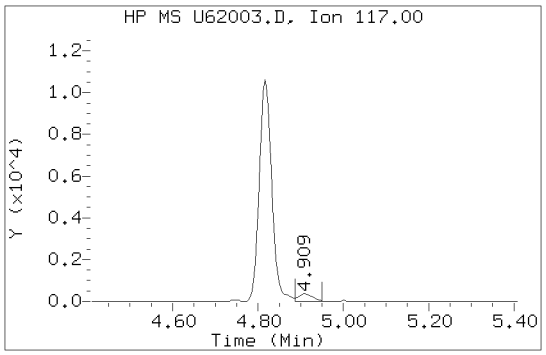
BEFORE

MASS
117
AREA
853
HEIGHT
364
29-Jun-2024
12:15
s
zaid



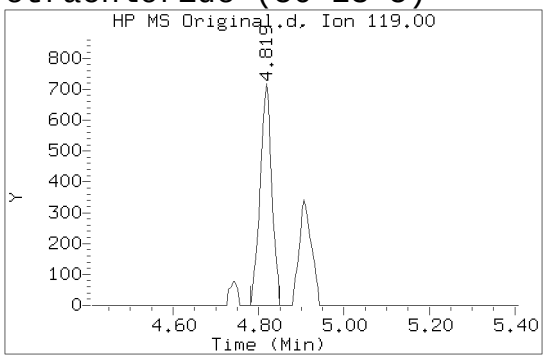
AFTER

MASS
117
AREA
853
HEIGHT
364
29-Jun-2024
12:18
s
zaid

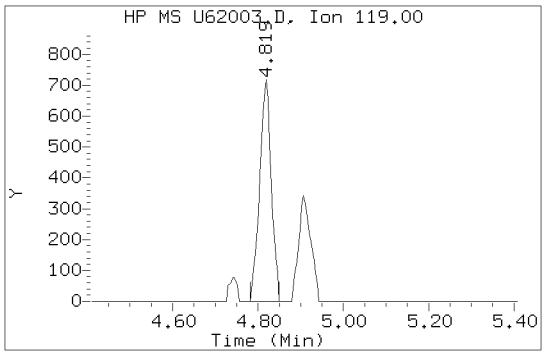


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62003.D
Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Carbon Tetrachloride (56-23-5)



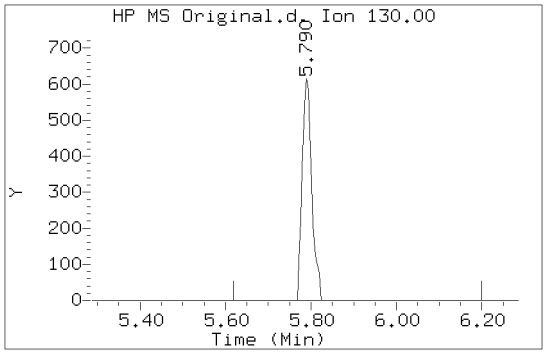
BEFORE
MASS
119
AREA
1353
HEIGHT
718
29-Jun-2024
12:15
s
zaid



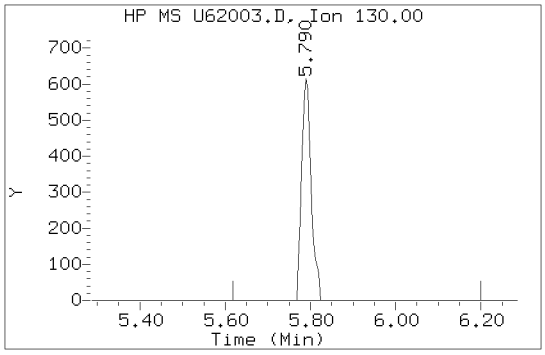
AFTER
MASS
119
AREA
1353
HEIGHT
718
29-Jun-2024
12:18
s
zaid

Reason Code:

Trichloroethene (79-01-6)

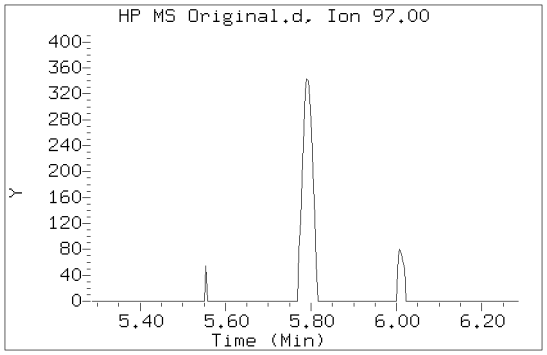


BEFORE
MASS
130
AREA
987
HEIGHT
615
29-Jun-2024
12:15
s
zaid

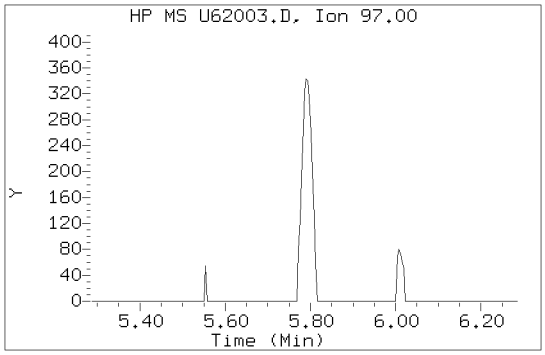


AFTER
MASS
130
AREA
987
HEIGHT
615
29-Jun-2024
12:18
s
zaid

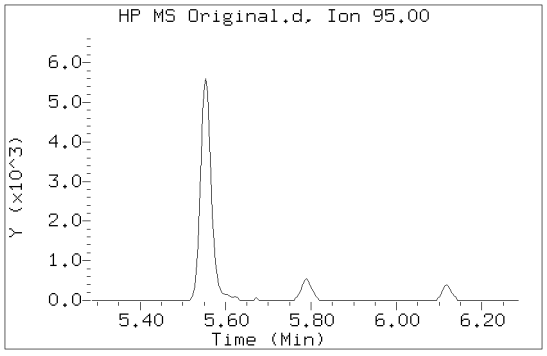
Reason Code:



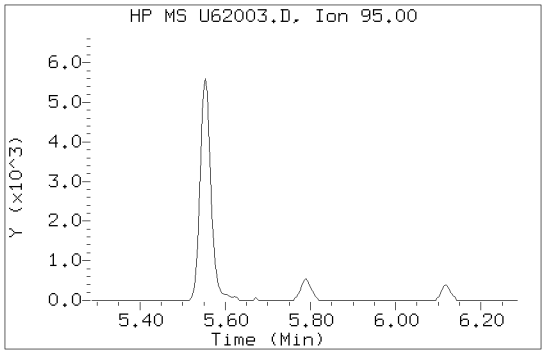
BEFORE
MASS
97
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER
MASS
97
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



BEFORE
MASS
95
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



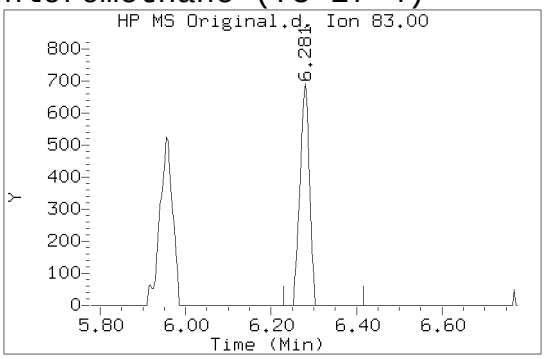
AFTER
MASS
95
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62003.D
Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

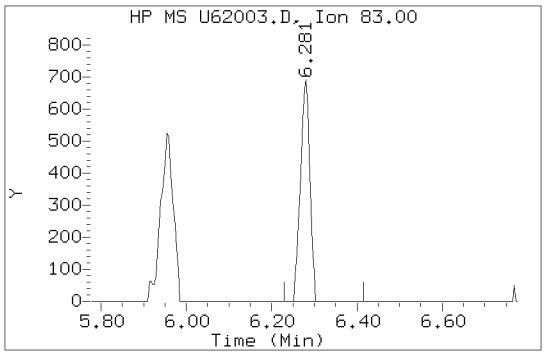
Bromodichloromethane (75-27-4)

Reason Code:

BEFORE
MASS
83
AREA
1081
HEIGHT
691
29-Jun-2024
12:15
s
zaid



AFTER
MASS
83
AREA
1081
HEIGHT
691
29-Jun-2024
12:18
s
zaid



BEFORE
MASS
85
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HEIGHT
0
29-Jun-2024
12:15
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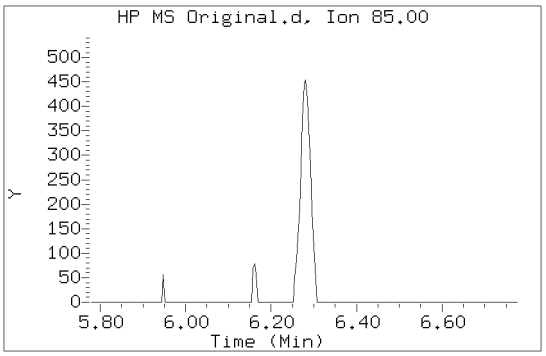
zaid



AFTER
MASS
85
AREA
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HEIGHT
0
29-Jun-2024
12:18
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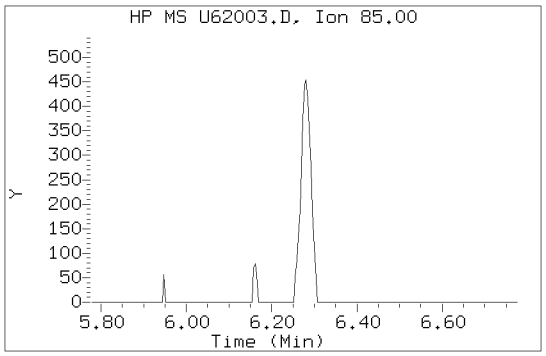
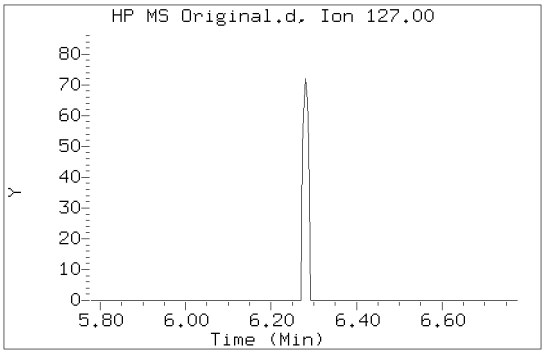
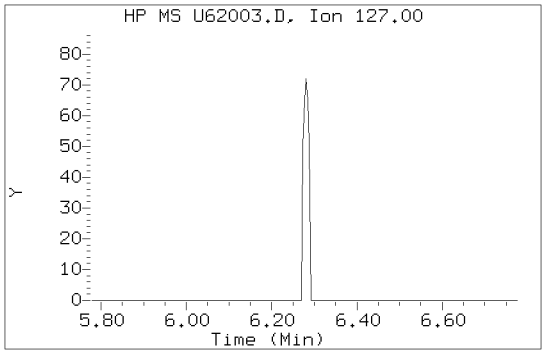
zaid



BEFORE
MASS
127
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



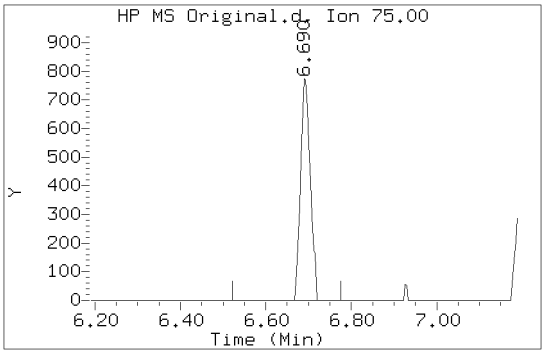
AFTER
MASS
127
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



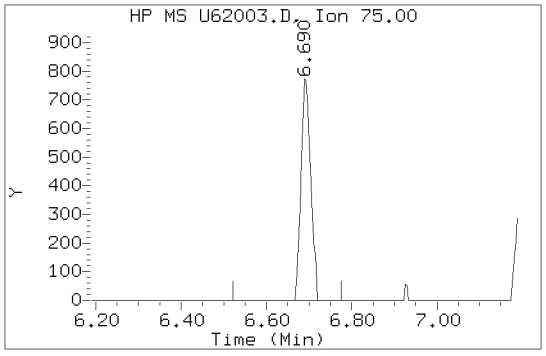
cis-1,3-Dichloropropene (10061-01-5)

Reason Code:

BEFORE
MASS
75
AREA
1255
HEIGHT
774
29-Jun-2024
12:15
s
zaid



AFTER
MASS
75
AREA
1255
HEIGHT
774
29-Jun-2024
12:18
s
zaid

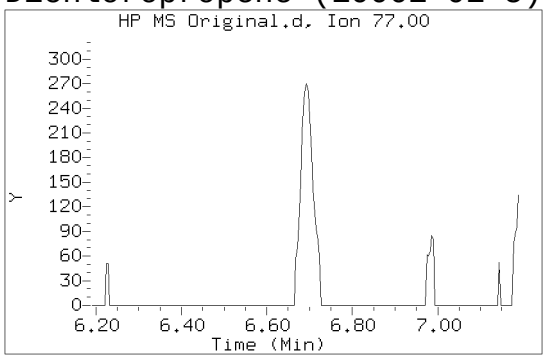


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62003.D
Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

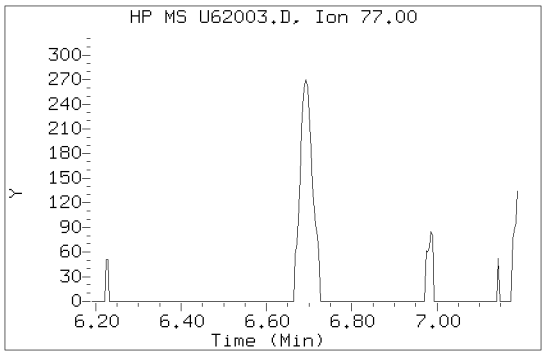
cis-1,3-Dichloropropene (10061-01-5)

Reason Code:

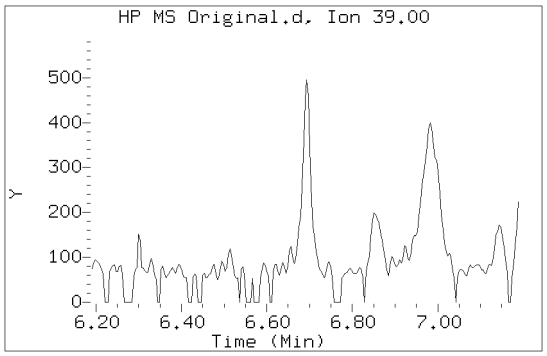
BEFORE
MASS
77
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



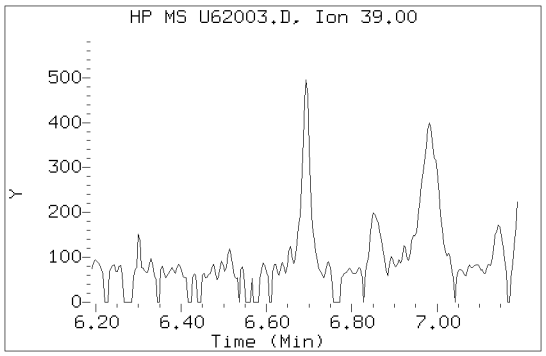
AFTER
MASS
77
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



BEFORE
MASS
39
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



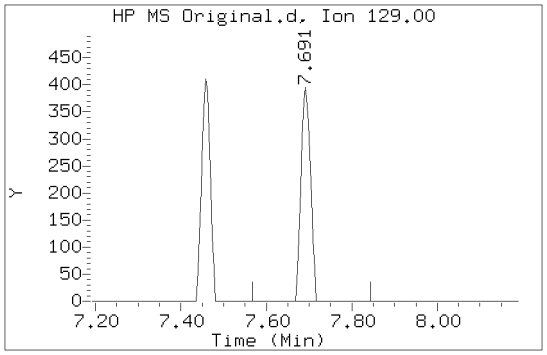
AFTER
MASS
39
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



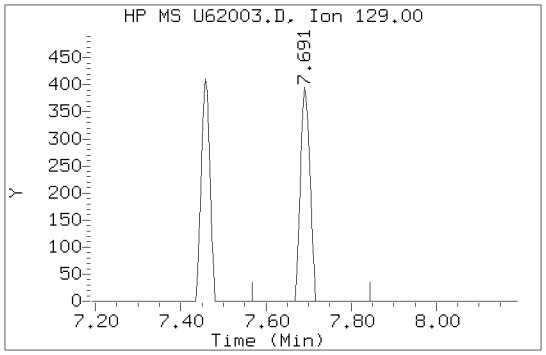
Dibromochloromethane (124-48-1)

Reason Code:

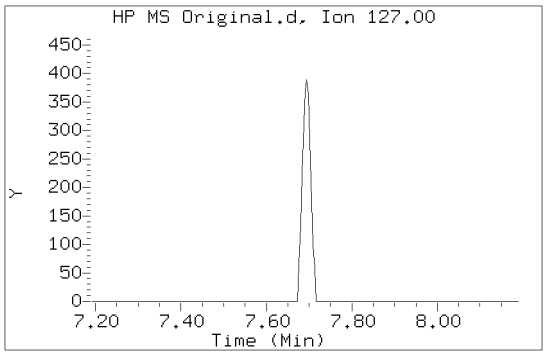
BEFORE
MASS
129
AREA
629
HEIGHT
396
29-Jun-2024
12:15
s
zaid



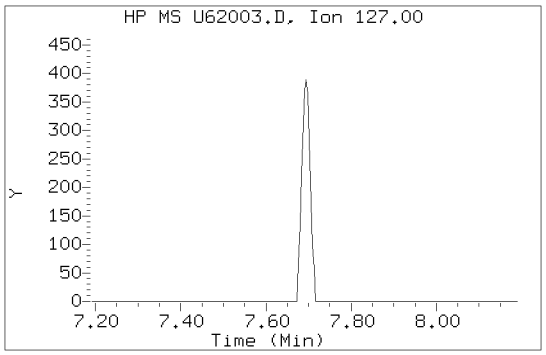
AFTER
MASS
129
AREA
629
HEIGHT
396
29-Jun-2024
12:18
s
zaid



BEFORE
MASS
127
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



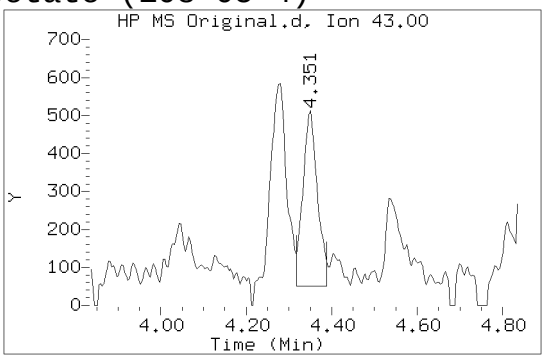
AFTER
MASS
127
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62003.D
Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

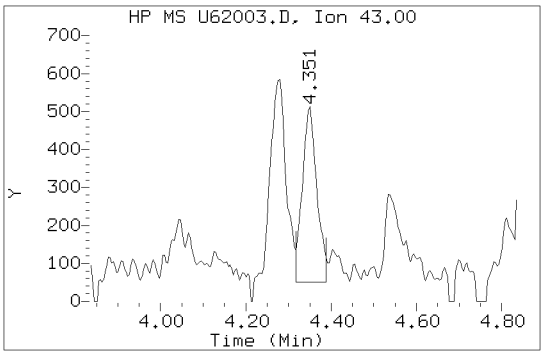
Vinyl Acetate (108-05-4)

BEFORE
MASS
43
AREA
1114
HEIGHT
462
29-Jun-2024
12:15
s
zaid

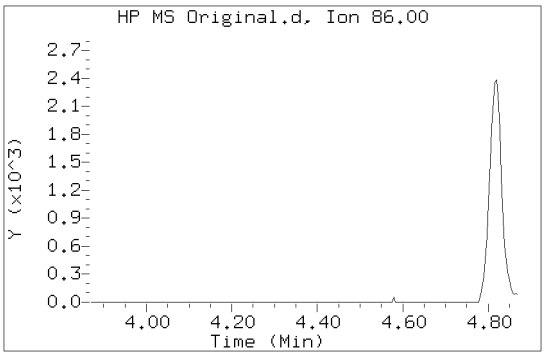


Reason Code:

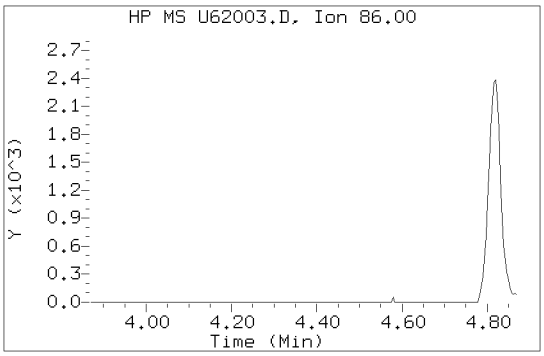
AFTER
MASS
43
AREA
1114
HEIGHT
462
29-Jun-2024
12:18
s
zaid



BEFORE
MASS
86
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid

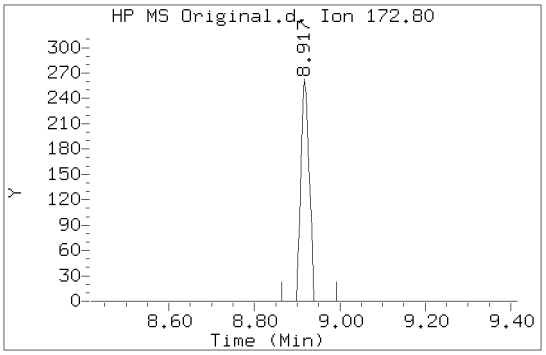


AFTER
MASS
86
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



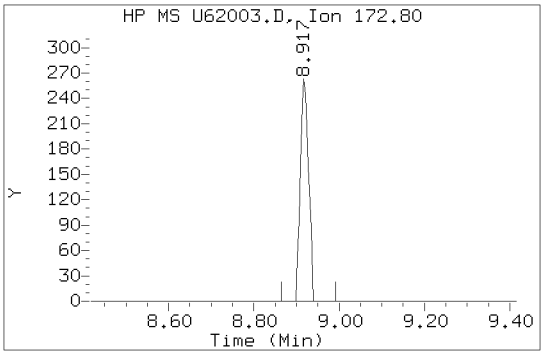
Bromoform (75-25-2)

BEFORE
MASS
172.8
AREA
363
HEIGHT
263
29-Jun-2024
12:15
s
zaid

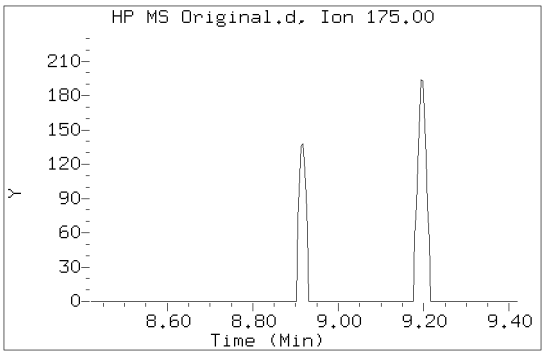


Reason Code:

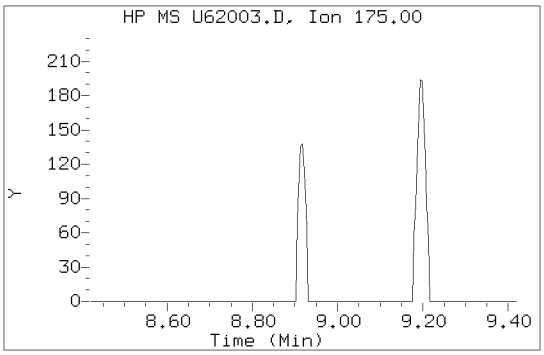
AFTER
MASS
172.8
AREA
363
HEIGHT
263
29-Jun-2024
12:18
s
zaid



BEFORE
MASS
175
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER
MASS
175
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



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Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Bromoform (75-25-2)

Reason Code:

BEFORE

MASS
254
AREA
0
HEIGHT
0
29-Jun-2024
12:15
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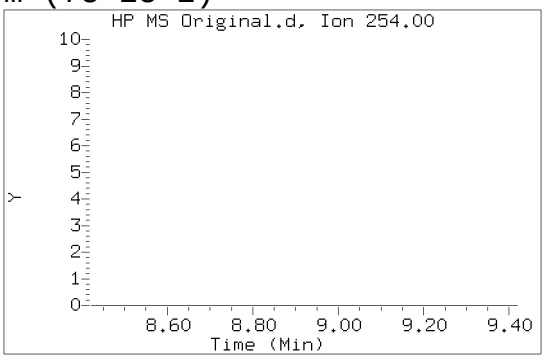
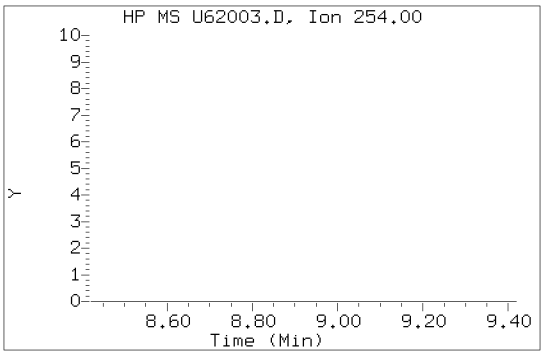
zaid



AFTER

MASS
254
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid

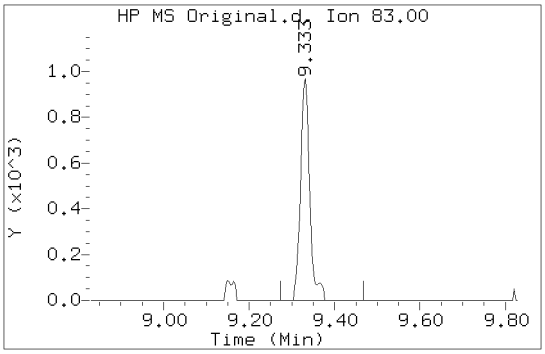


1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

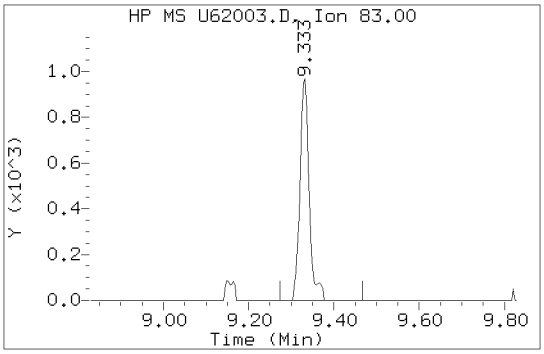
BEFORE

MASS
83
AREA
1485
HEIGHT
969
29-Jun-2024
12:15
s
zaid



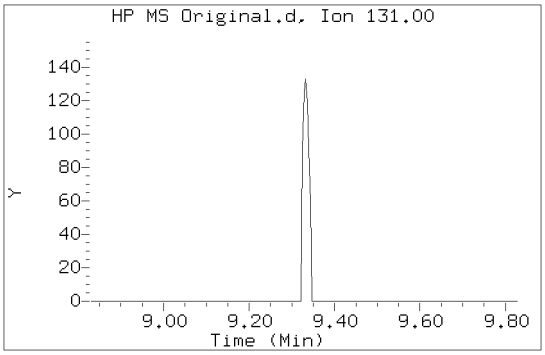
AFTER

MASS
83
AREA
1485
HEIGHT
969
29-Jun-2024
12:18
s
zaid



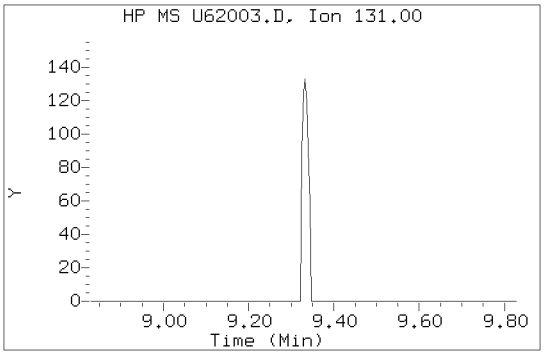
BEFORE

MASS
131
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



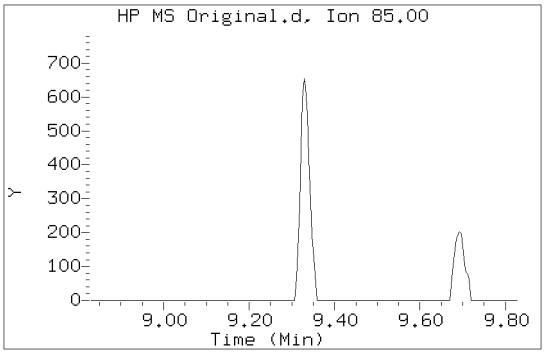
AFTER

MASS
131
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



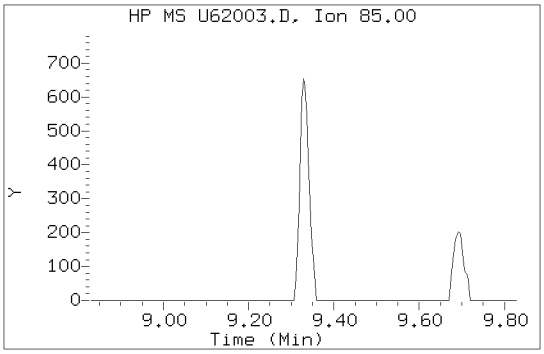
BEFORE

MASS
85
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
85
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



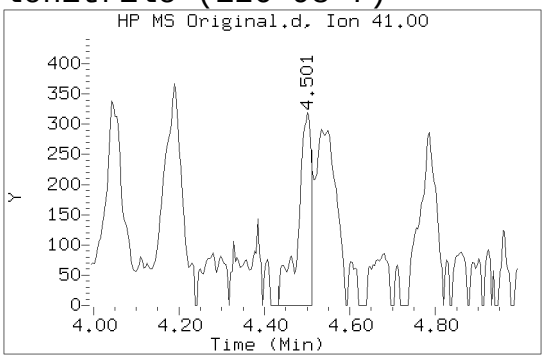
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62003.D
Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Methacrylonitrile (126-98-7)

Reason Code:

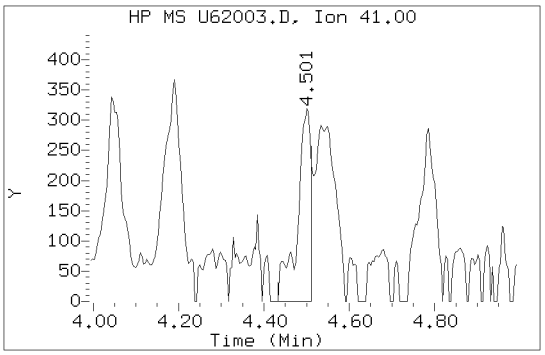
BEFORE

MASS
41
AREA
715
HEIGHT
319
29-Jun-2024
12:15
s
zaid



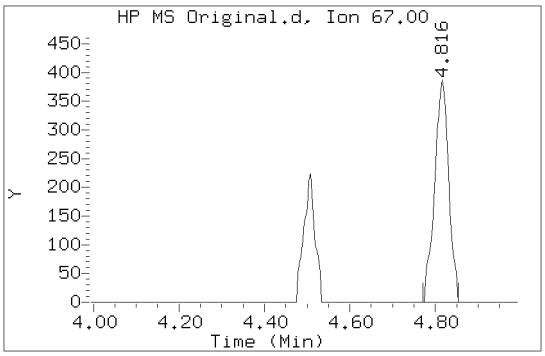
AFTER

MASS
41
AREA
715
HEIGHT
319
29-Jun-2024
12:18
s
zaid



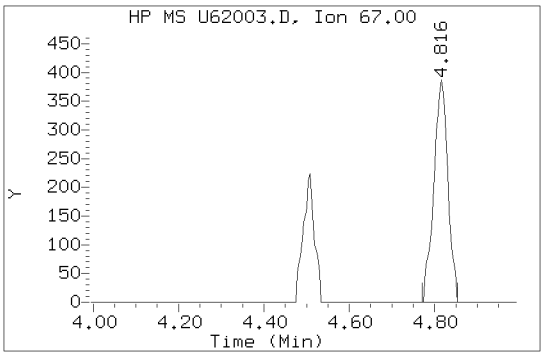
BEFORE

MASS
67
AREA
885
HEIGHT
387
29-Jun-2024
12:15
s
zaid



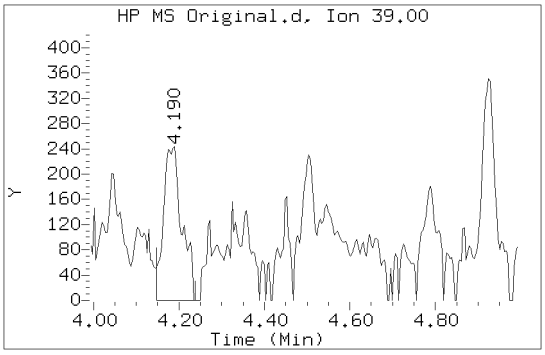
AFTER

MASS
67
AREA
885
HEIGHT
387
29-Jun-2024
12:18
s
zaid



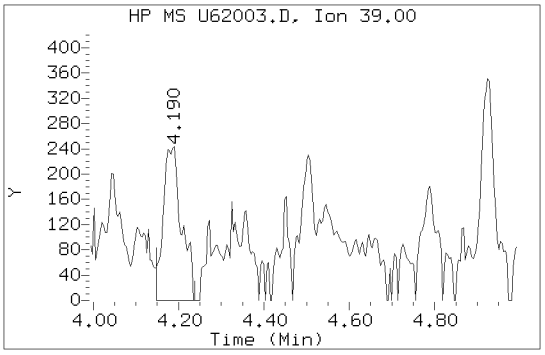
BEFORE

MASS
39
AREA
729
HEIGHT
244
29-Jun-2024
12:15
s
zaid



AFTER

MASS
39
AREA
729
HEIGHT
244
29-Jun-2024
12:18
s
zaid

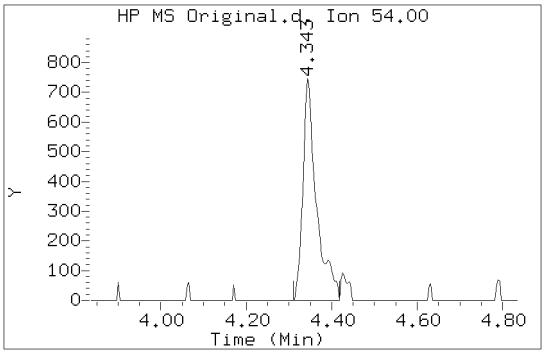


Propionitrile (107-12-0)

Reason Code:

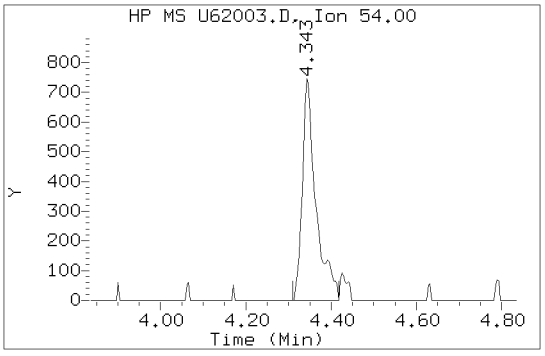
BEFORE

MASS
54
AREA
1664
HEIGHT
746
29-Jun-2024
12:15
s
zaid



AFTER

MASS
54
AREA
1664
HEIGHT
746
29-Jun-2024
12:18
s
zaid



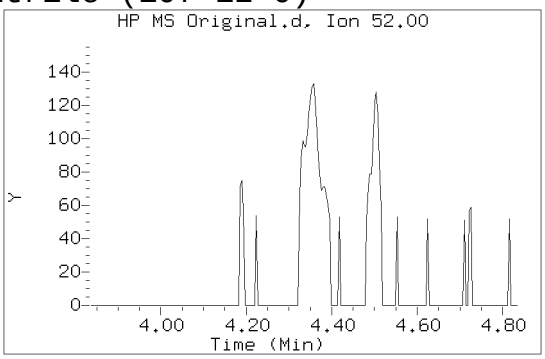
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62003.D
Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Propionitrile (107-12-0)

Reason Code:

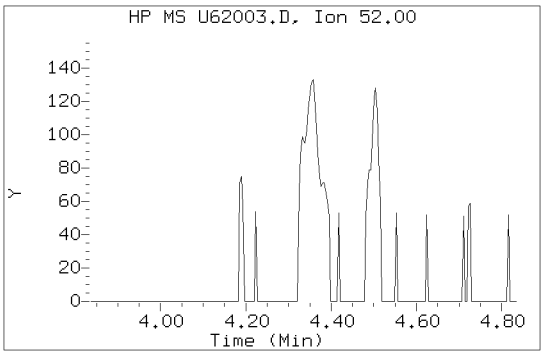
BEFORE

MASS
52
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
52
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



BEFORE

MASS
55
AREA
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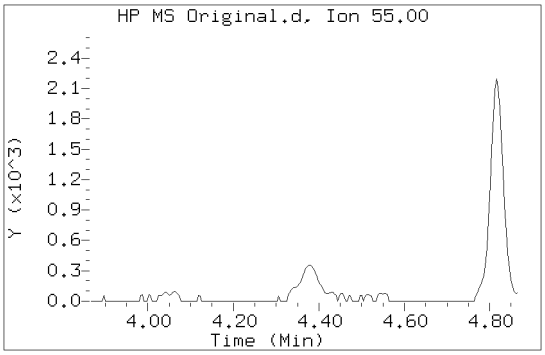
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
55
AREA
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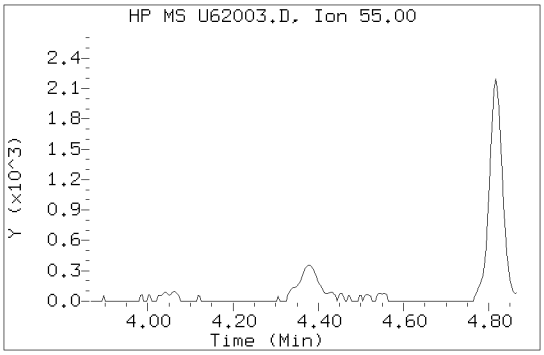
HEIGHT
0
29-Jun-2024
12:18
s
zaid

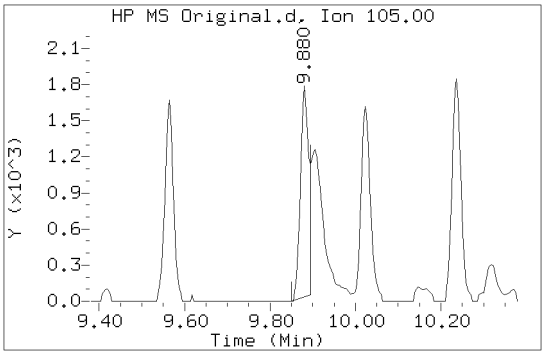


1,2,4-Trimethylbenzene (95-63-6)

Reason Code:

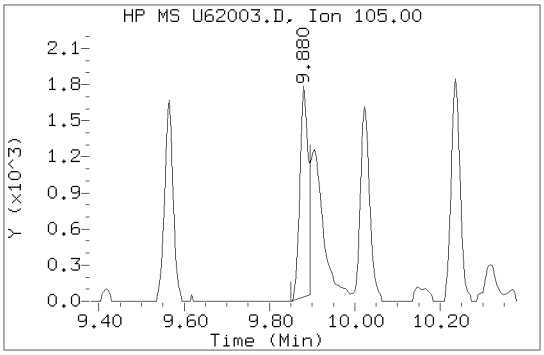
BEFORE

MASS
105
AREA
2487
HEIGHT
1755
29-Jun-2024
12:15
s
zaid



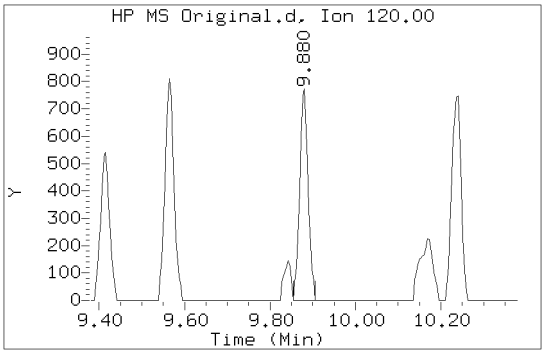
AFTER

MASS
105
AREA
2487
HEIGHT
1755
29-Jun-2024
12:18
s
zaid



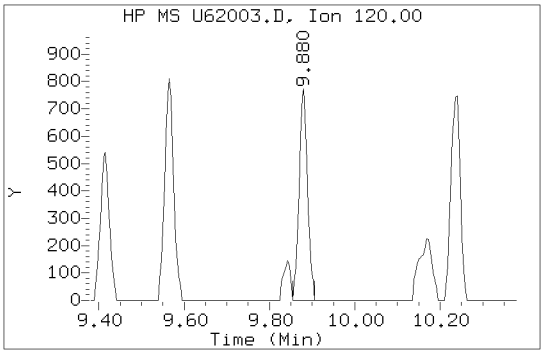
BEFORE

MASS
120
AREA
1086
HEIGHT
773
29-Jun-2024
12:15
s
zaid



AFTER

MASS
120
AREA
1086
HEIGHT
773
29-Jun-2024
12:18
s
zaid

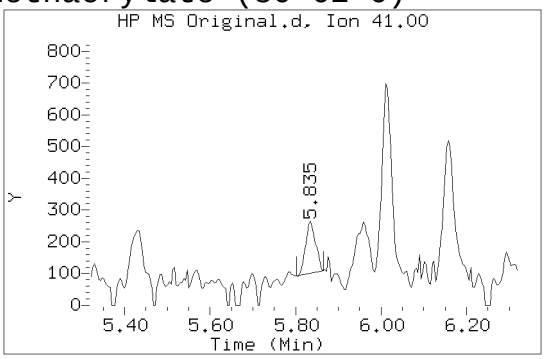


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62003.D
Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

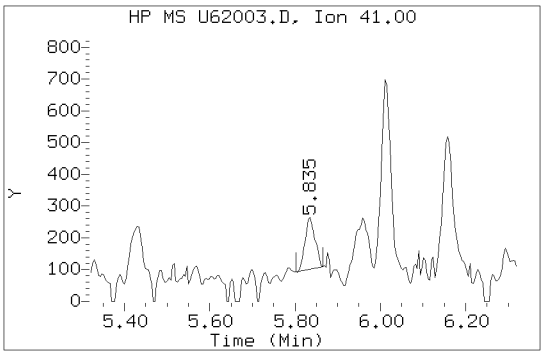
Methyl Methacrylate (80-62-6)

Reason Code:

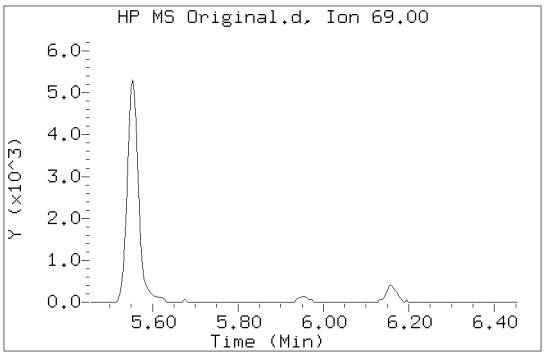
BEFORE
MASS
41
AREA
269
HEIGHT
164
29-Jun-2024
12:15
s
zaid



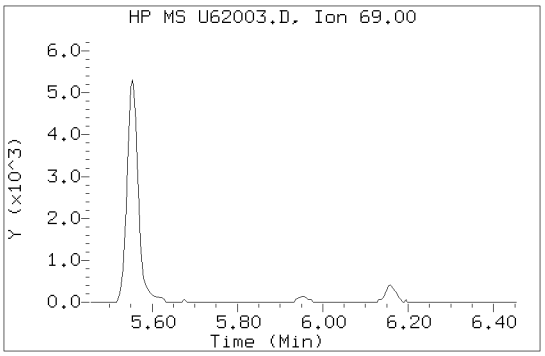
AFTER
MASS
41
AREA
269
HEIGHT
164
29-Jun-2024
12:18
s
zaid



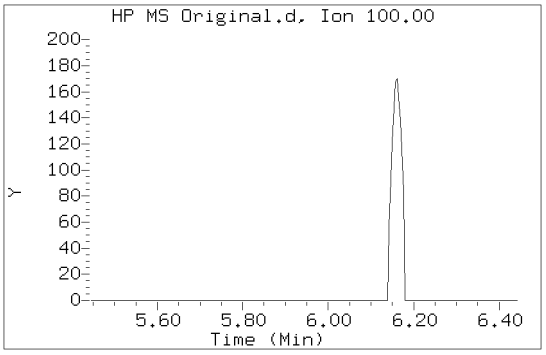
BEFORE
MASS
69
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



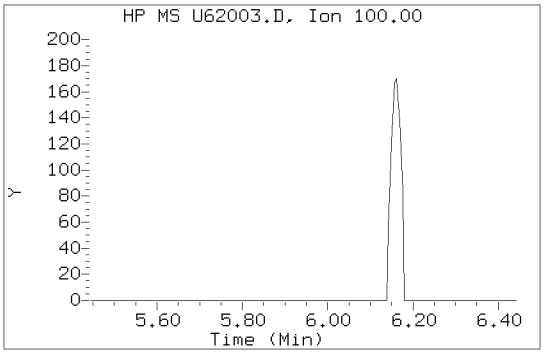
AFTER
MASS
69
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



BEFORE
MASS
100
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



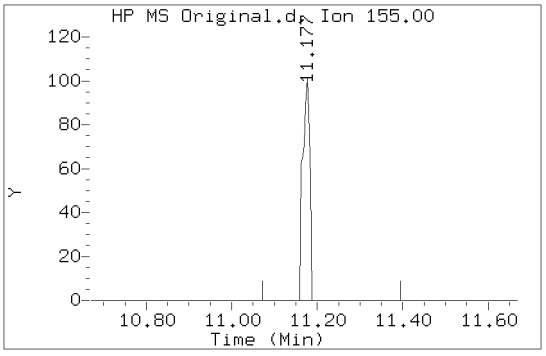
AFTER
MASS
100
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



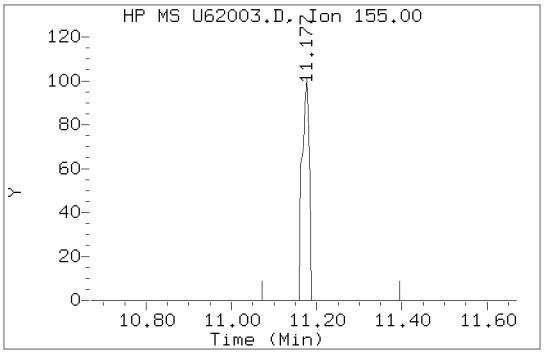
1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

BEFORE
MASS
155
AREA
119
HEIGHT
101
29-Jun-2024
12:15
s
zaid



AFTER
MASS
155
AREA
119
HEIGHT
101
29-Jun-2024
12:18
s
zaid

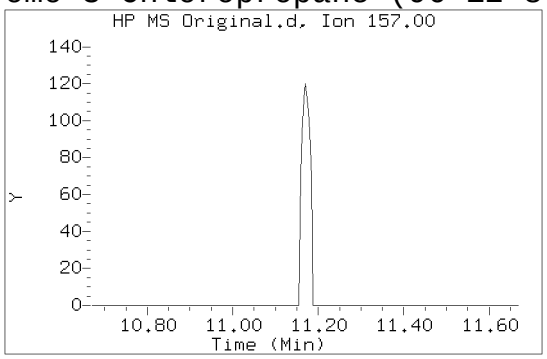


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62003.D
Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

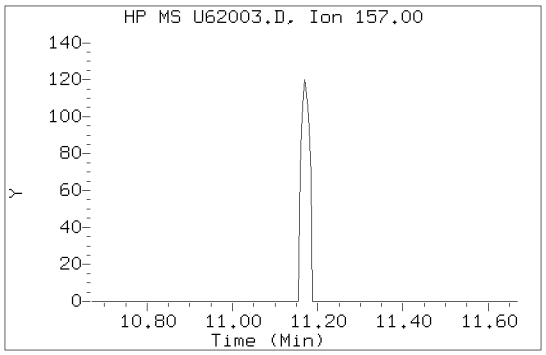
1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

BEFORE
MASS
157
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER
MASS
157
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



BEFORE
MASS
75
AREA
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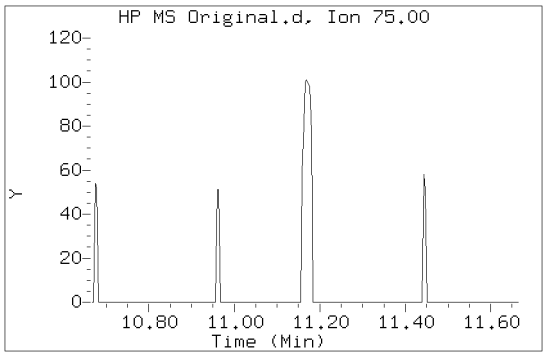
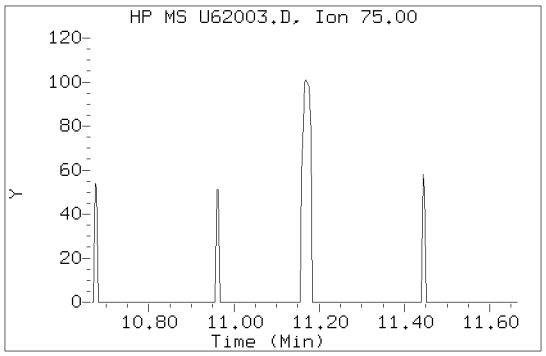
HEIGHT
0
29-Jun-2024
12:15
s
zaid



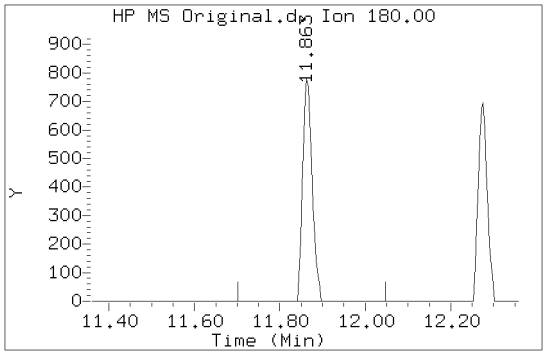
AFTER
MASS
75
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



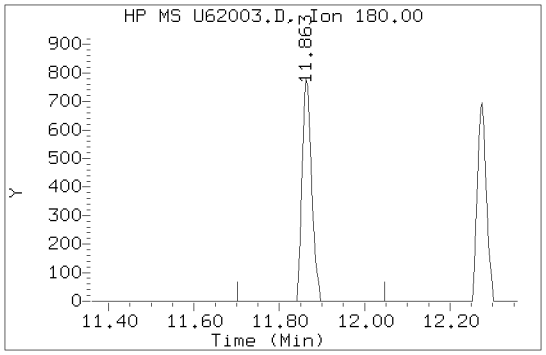
1,2,4-Trichlorobenzene (120-82-1)

Reason Code:

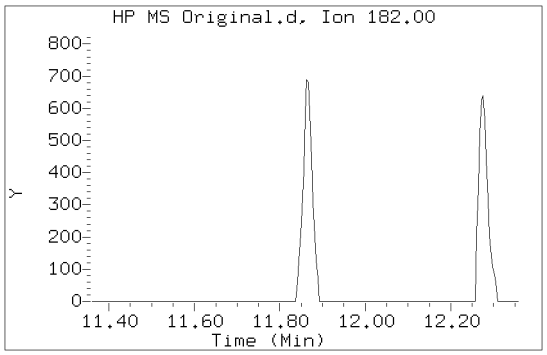
BEFORE
MASS
180
AREA
1239
HEIGHT
779
29-Jun-2024
12:15
s
zaid



AFTER
MASS
180
AREA
1239
HEIGHT
779
29-Jun-2024
12:18
s
zaid



BEFORE
MASS
182
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER
MASS
182
AREA
0
HEIGHT
0
29-Jun-2024
12:18
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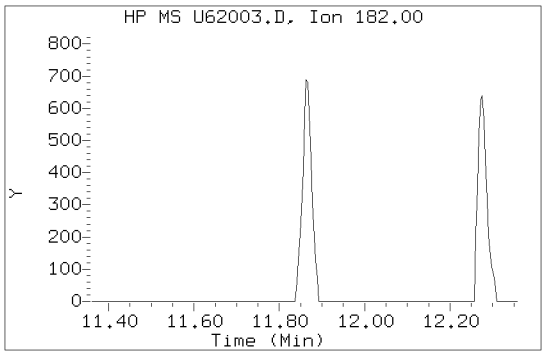
zaid



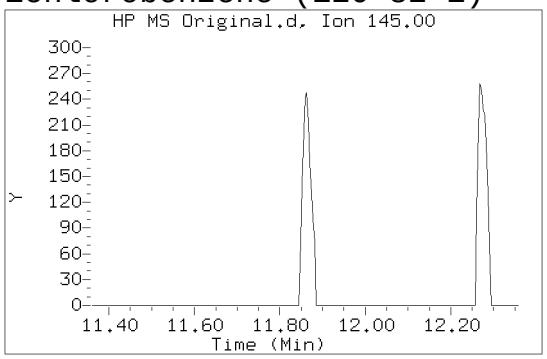
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62003.D
Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

1,2,4-Trichlorobenzene (120-82-1)

Reason Code:

BEFORE

MASS
145
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
145
AREA
0
HEIGHT
0
29-Jun-2024
12:18
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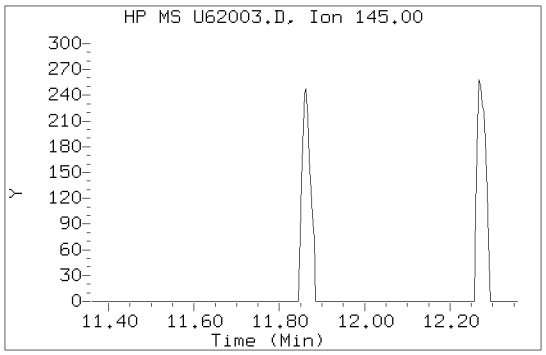
zaid

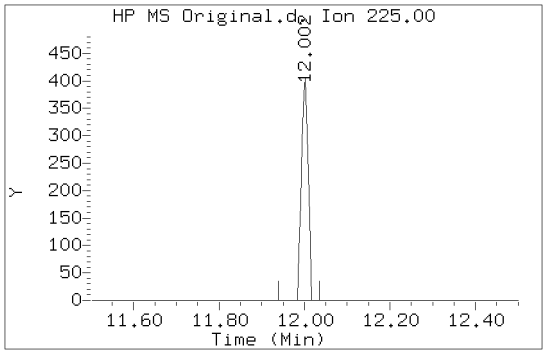


Hexachlorobutadiene (87-68-3)

Reason Code:

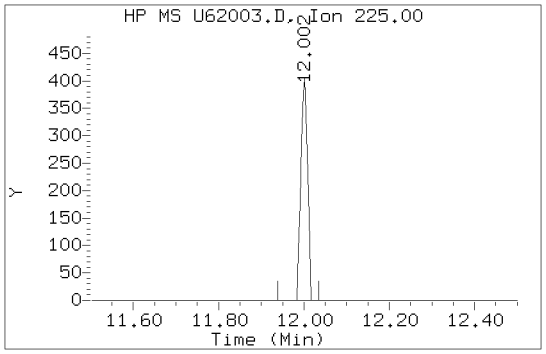
BEFORE

MASS
225
AREA
463
HEIGHT
404
29-Jun-2024
12:15
s
zaid



AFTER

MASS
225
AREA
463
HEIGHT
404
29-Jun-2024
12:18
s
zaid



BEFORE

MASS
223
AREA
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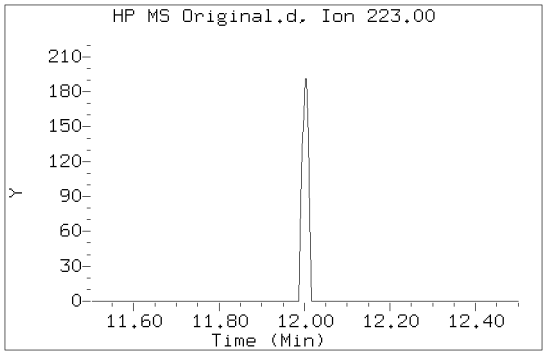
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
223
AREA
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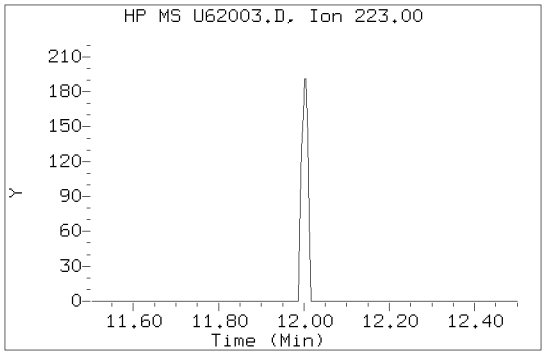
HEIGHT
0
29-Jun-2024
12:18
s
zaid



BEFORE

MASS
227
AREA
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HEIGHT
0
29-Jun-2024
12:15
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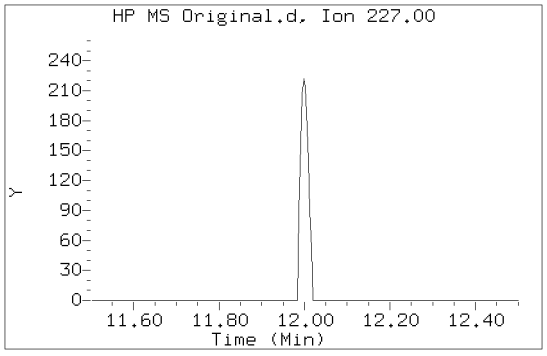
zaid



AFTER

MASS
227
AREA
0
HEIGHT
0
29-Jun-2024
12:18
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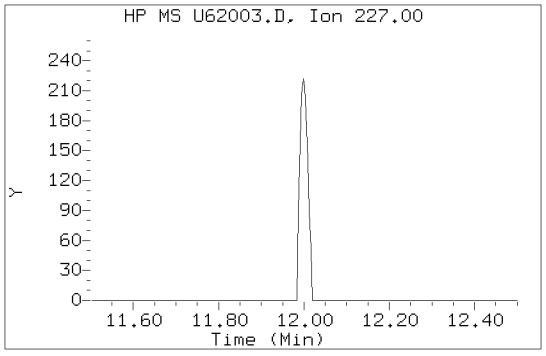
zaid



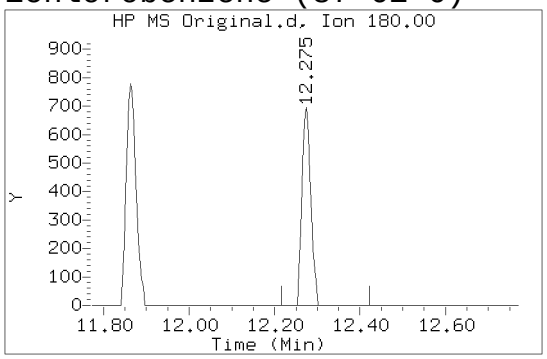
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62003.D
Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

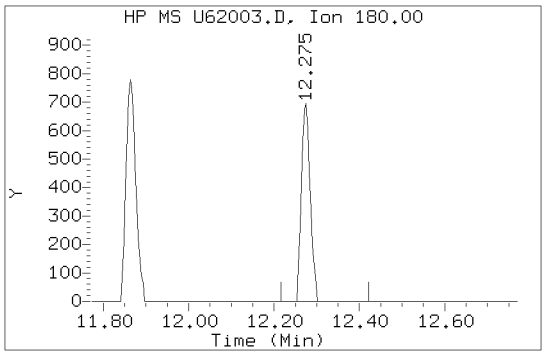
BEFORE

MASS
180
AREA
1018
HEIGHT
697
29-Jun-2024
12:15
s
zaid



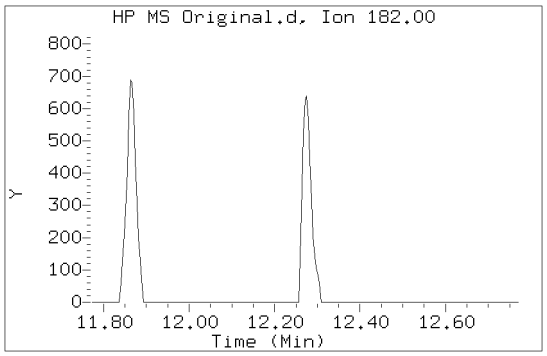
AFTER

MASS
180
AREA
1018
HEIGHT
697
29-Jun-2024
12:18
s
zaid



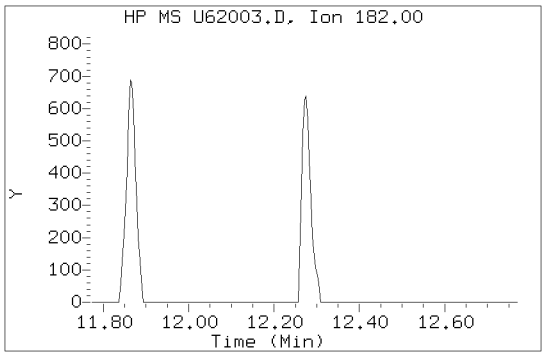
BEFORE

MASS
182
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



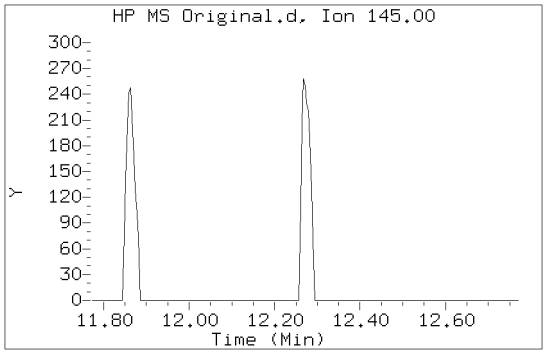
AFTER

MASS
182
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



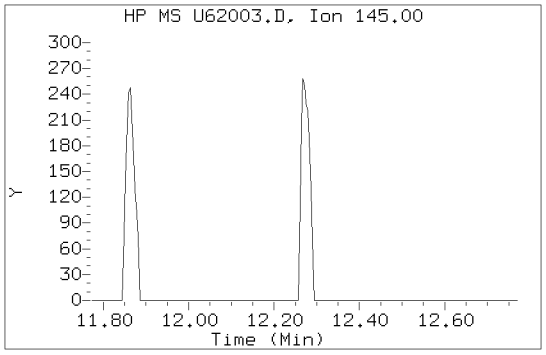
BEFORE

MASS
145
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
145
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid

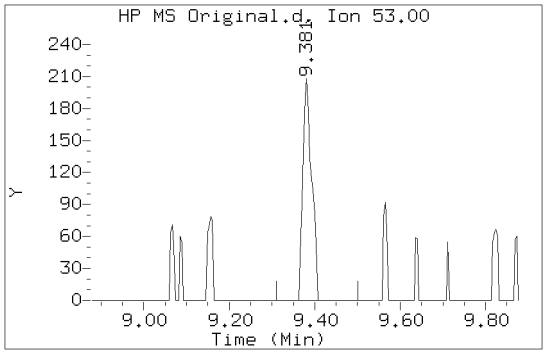


trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

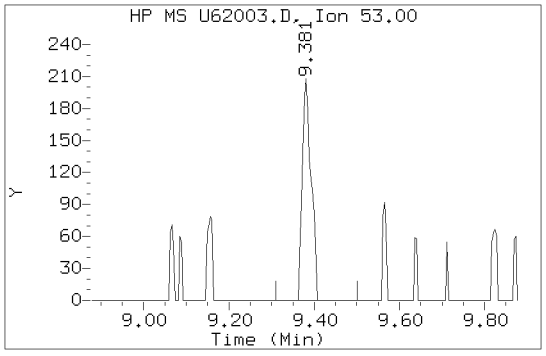
BEFORE

MASS
53
AREA
303
HEIGHT
208
29-Jun-2024
12:15
s
zaid



AFTER

MASS
53
AREA
303
HEIGHT
208
29-Jun-2024
12:18
s
zaid



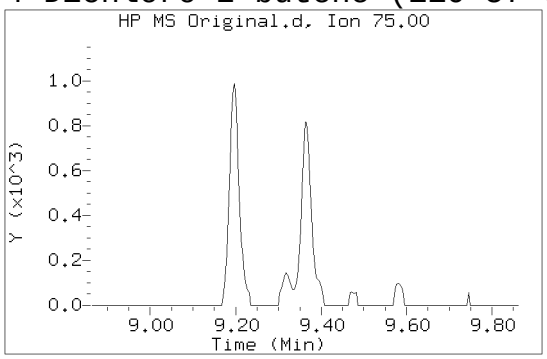
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62003.D
Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

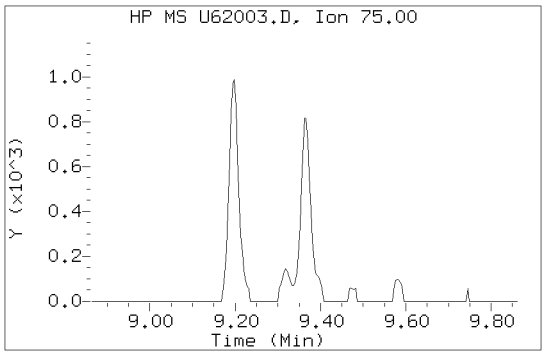
BEFORE

MASS
75
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
75
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid

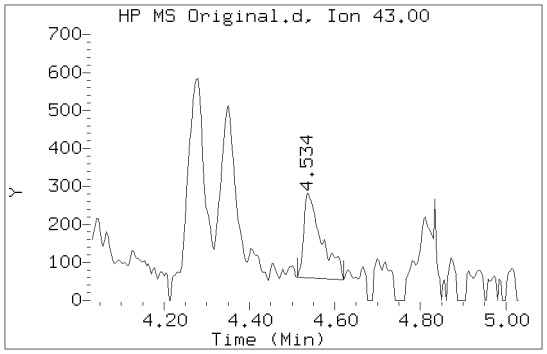


Ethyl Acetate (141-78-6)

Reason Code:

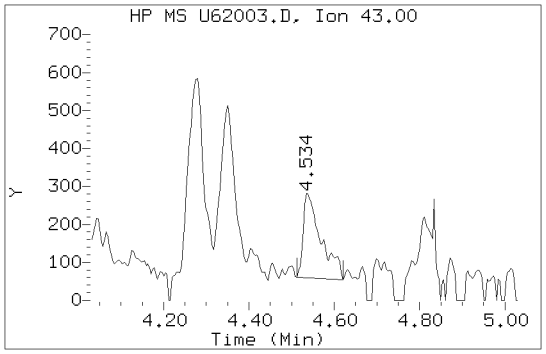
BEFORE

MASS
43
AREA
659
HEIGHT
223
29-Jun-2024
12:15
s
zaid



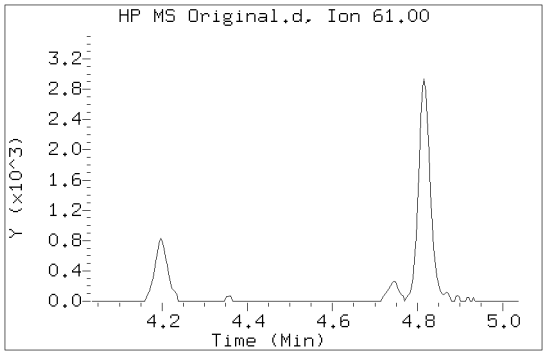
AFTER

MASS
43
AREA
659
HEIGHT
223
29-Jun-2024
12:18
s
zaid



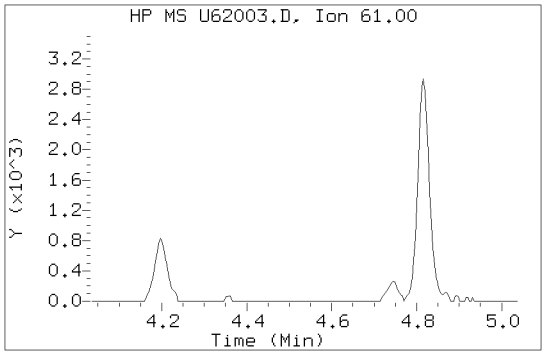
BEFORE

MASS
61
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



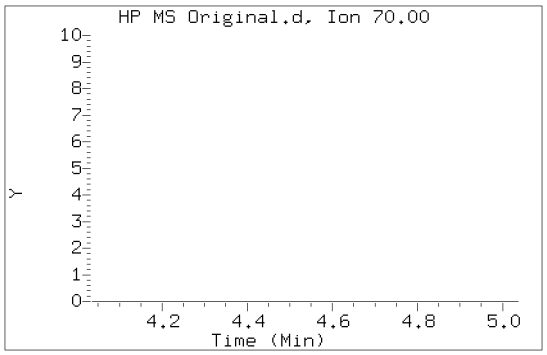
AFTER

MASS
61
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



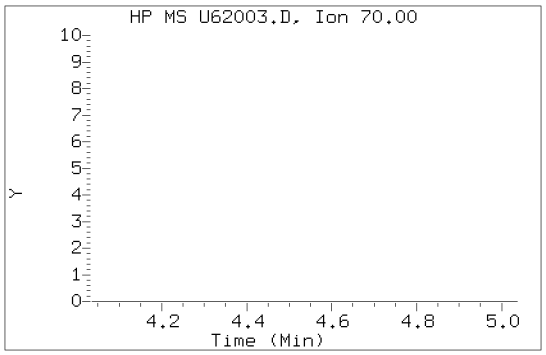
BEFORE

MASS
70
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

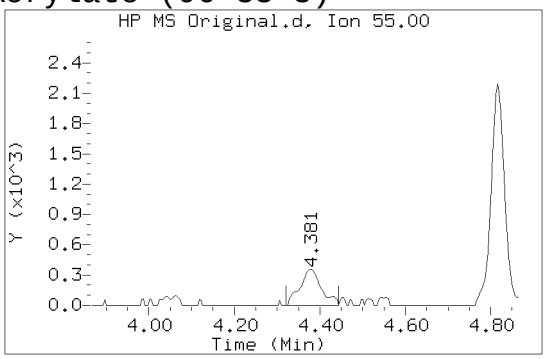
MASS
70
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62003.D
Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

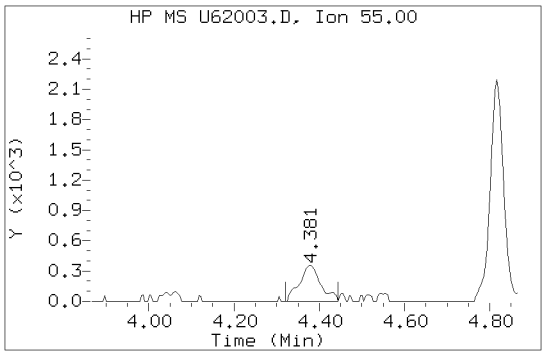
Methyl Acrylate (96-33-3)

BEFORE
MASS
55
AREA
1242
HEIGHT
358
29-Jun-2024
12:15
s
zaid

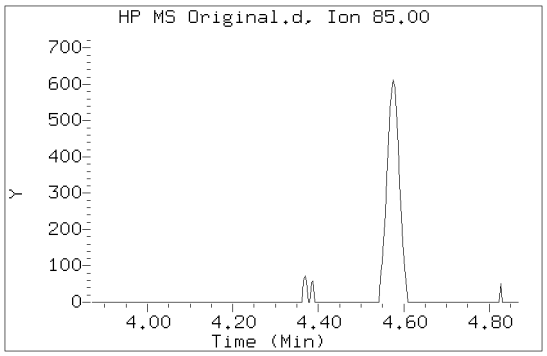


Reason Code:

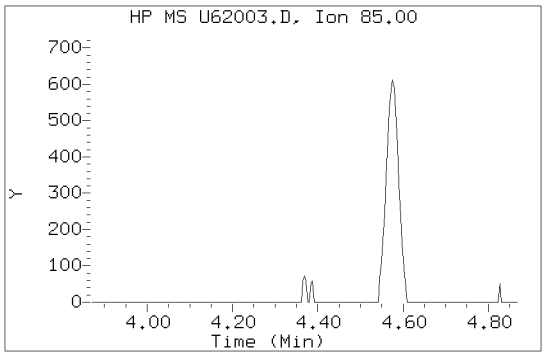
AFTER
MASS
55
AREA
1242
HEIGHT
358
29-Jun-2024
12:18
s
zaid



BEFORE
MASS
85
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid

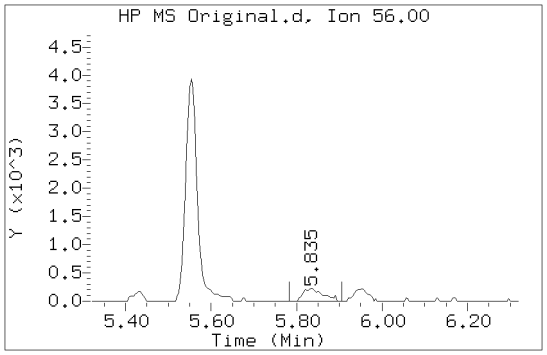


AFTER
MASS
85
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



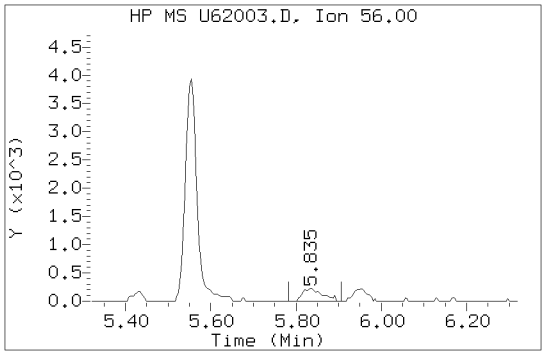
n-Butanol (71-36-3)

BEFORE
MASS
56
AREA
741
HEIGHT
233
29-Jun-2024
12:15
s
zaid

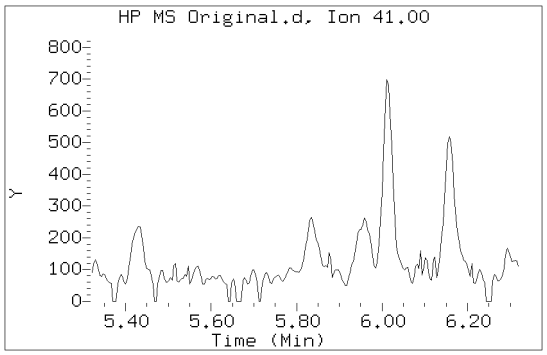


Reason Code:

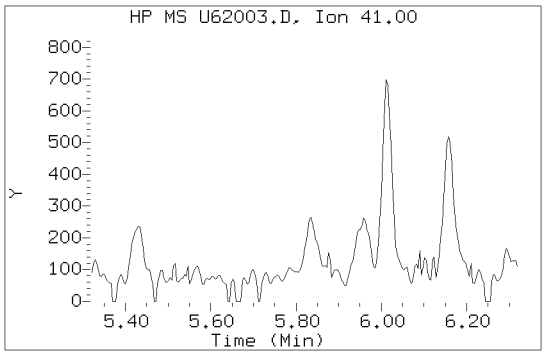
AFTER
MASS
56
AREA
741
HEIGHT
233
29-Jun-2024
12:18
s
zaid



BEFORE
MASS
41
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER
MASS
41
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



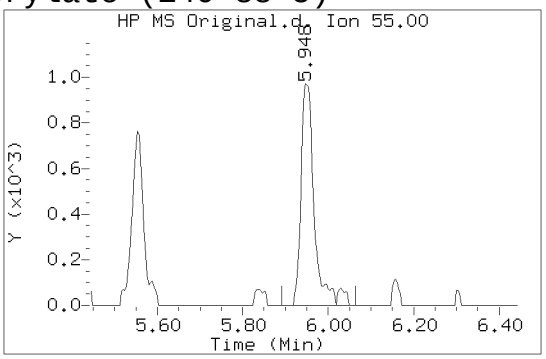
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62003.D
Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Ethyl Acrylate (140-88-5)

Reason Code:

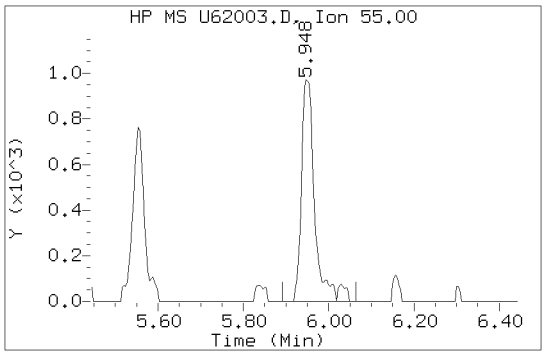
BEFORE

MASS
55
AREA
2148
HEIGHT
972
29-Jun-2024
12:15
s
zaid



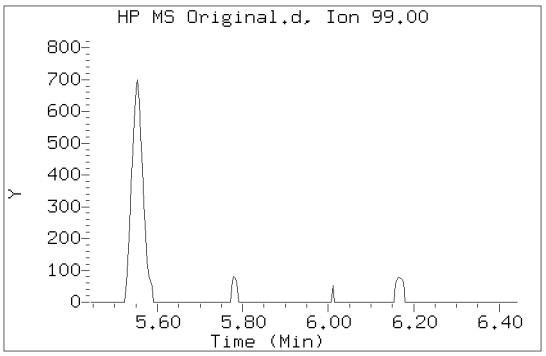
AFTER

MASS
55
AREA
2148
HEIGHT
972
29-Jun-2024
12:18
s
zaid



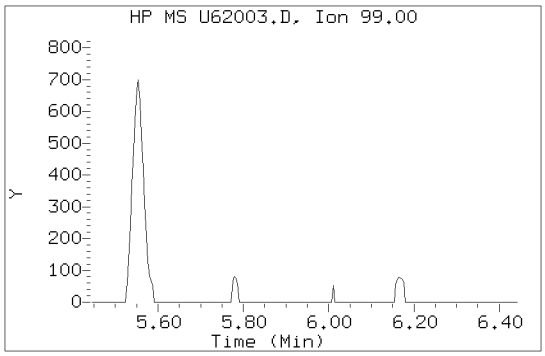
BEFORE

MASS
99
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
99
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid

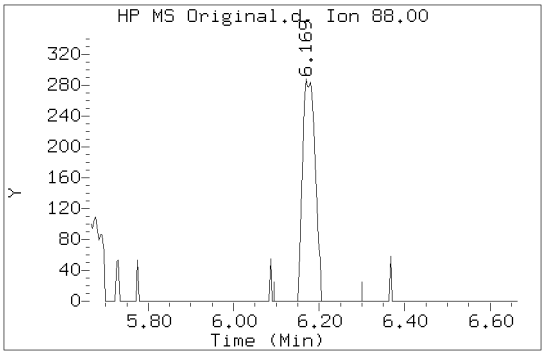


1,4-Dioxane ()

Reason Code:

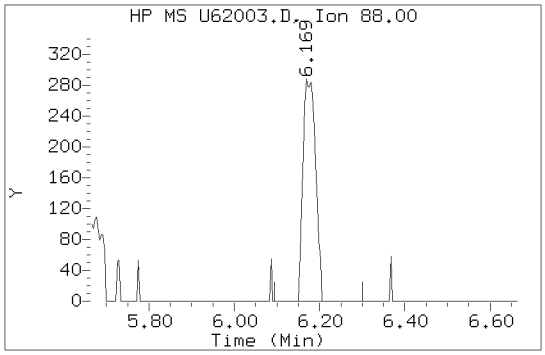
BEFORE

MASS
88
AREA
604
HEIGHT
288
29-Jun-2024
12:15
s
zaid



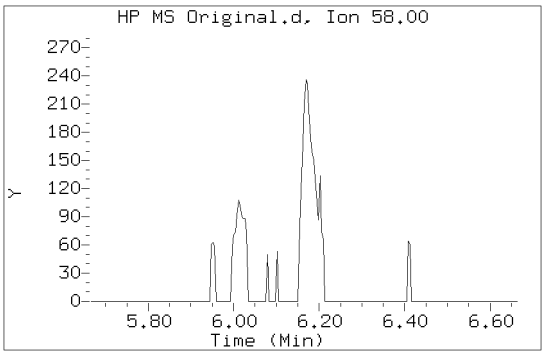
AFTER

MASS
88
AREA
604
HEIGHT
288
29-Jun-2024
12:18
s
zaid



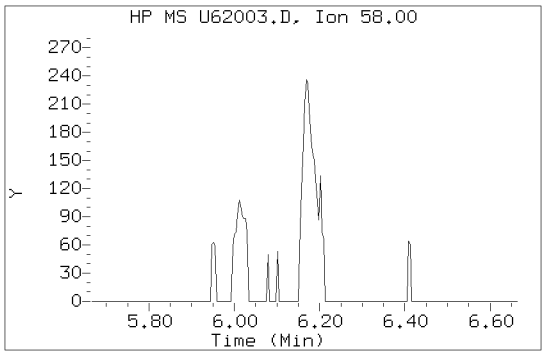
BEFORE

MASS
58
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
58
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



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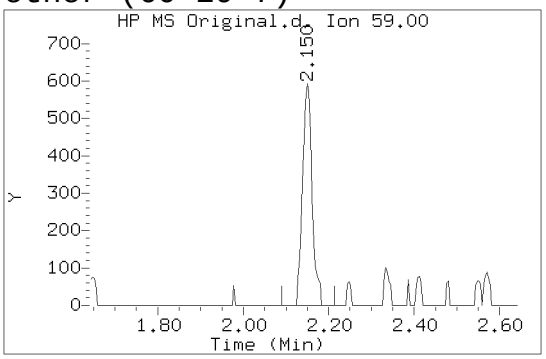
Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

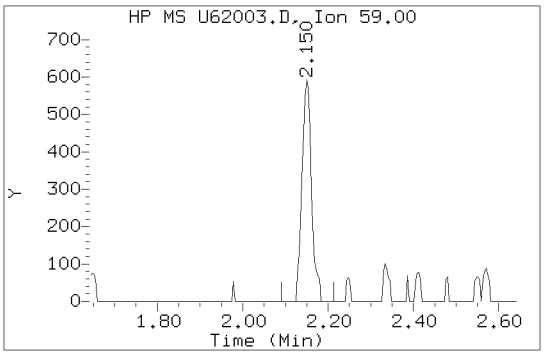
Diethyl ether (60-29-7)

Reason Code:

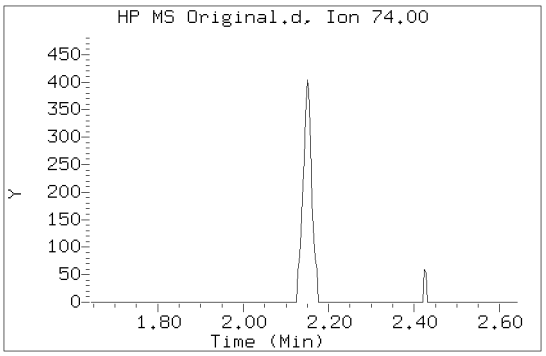
BEFORE
MASS
59
AREA
928
HEIGHT
593
29-Jun-2024
12:15
s
zaid



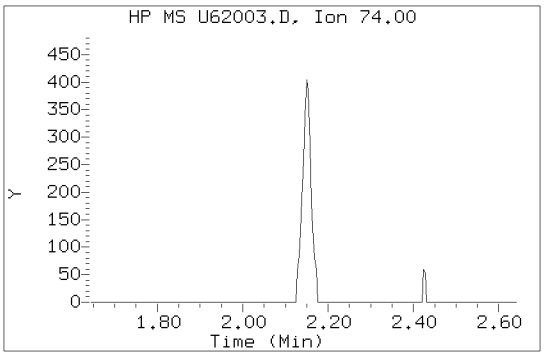
AFTER
MASS
59
AREA
928
HEIGHT
593
29-Jun-2024
12:18
s
zaid



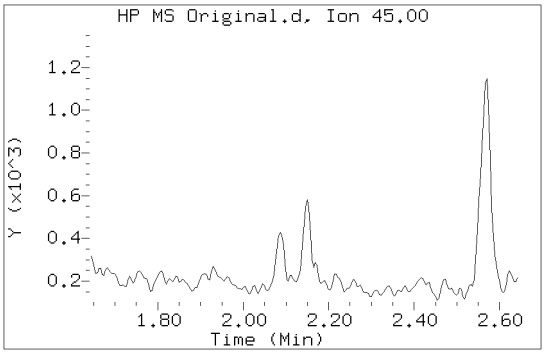
BEFORE
MASS
74
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



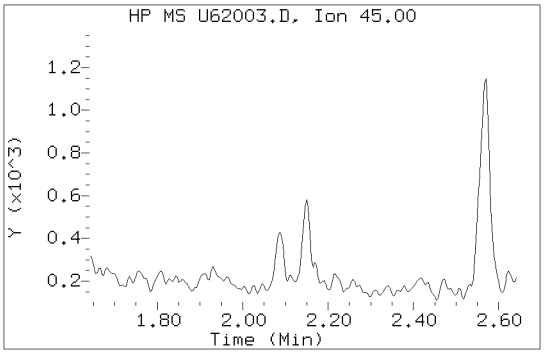
AFTER
MASS
74
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



BEFORE
MASS
45
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



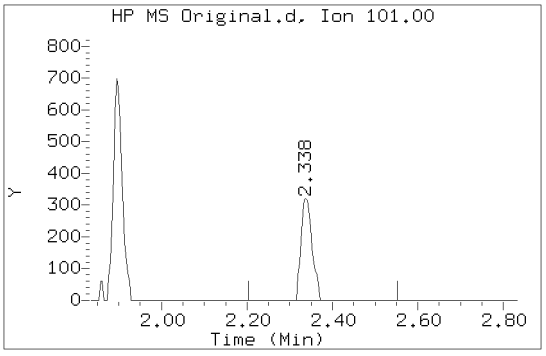
AFTER
MASS
45
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



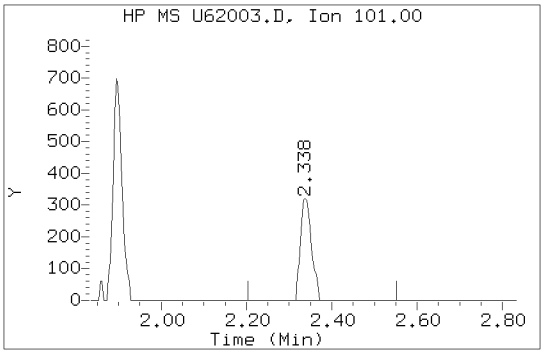
Freon TF (76-13-1)

Reason Code:

BEFORE
MASS
101
AREA
592
HEIGHT
320
29-Jun-2024
12:15
s
zaid



AFTER
MASS
101
AREA
592
HEIGHT
320
29-Jun-2024
12:18
s
zaid



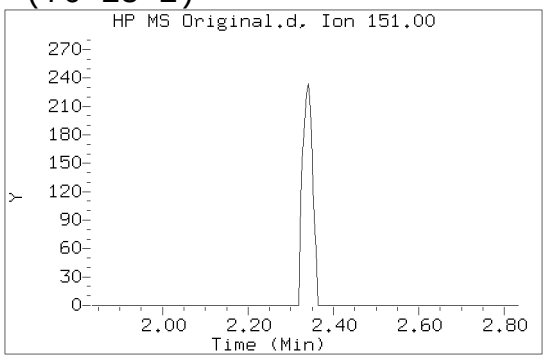
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62003.D
Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Freon TF (76-13-1)

Reason Code:

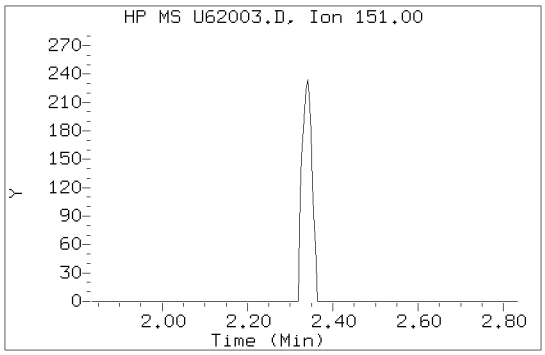
BEFORE

MASS
151
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
151
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid

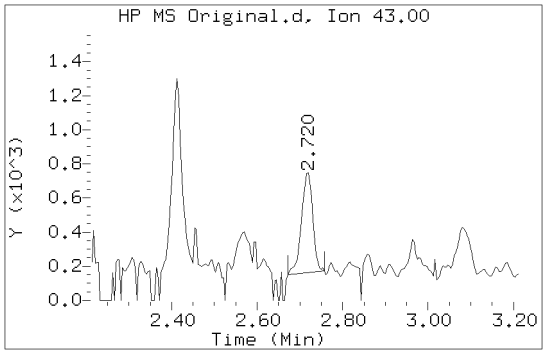


Methyl acetate (79-20-9)

Reason Code:

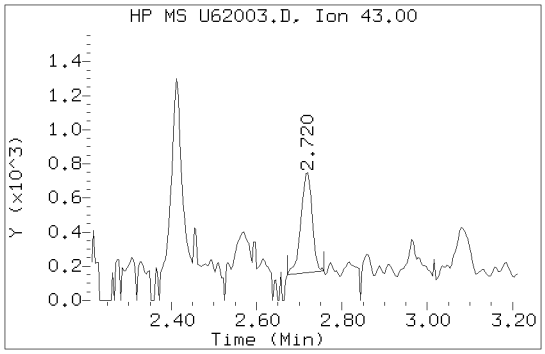
BEFORE

MASS
43
AREA
1084
HEIGHT
582
29-Jun-2024
12:15
s
zaid



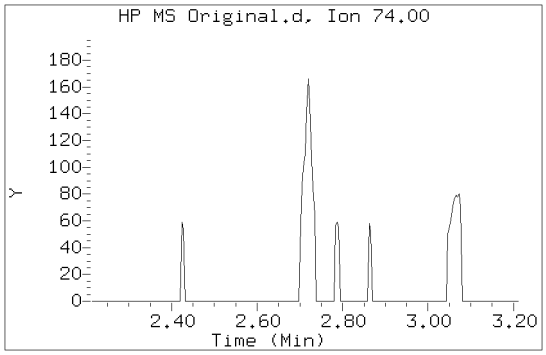
AFTER

MASS
43
AREA
1084
HEIGHT
582
29-Jun-2024
12:18
s
zaid



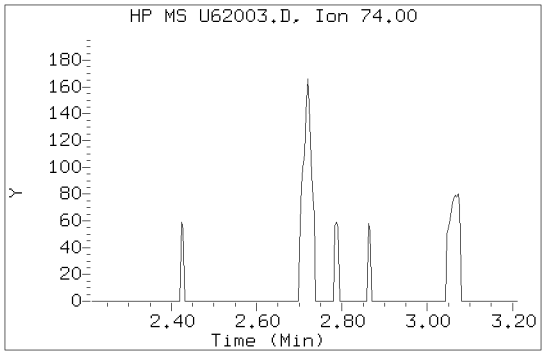
BEFORE

MASS
74
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
74
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid

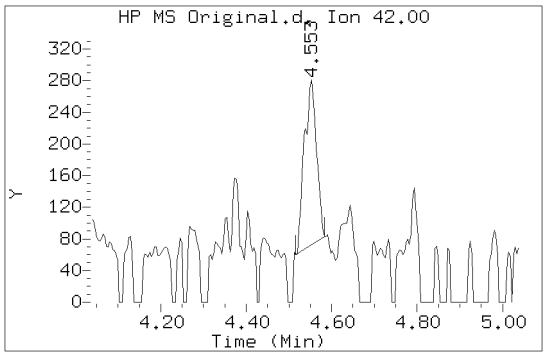


Tetrahydrofuran (109-99-9)

Reason Code:

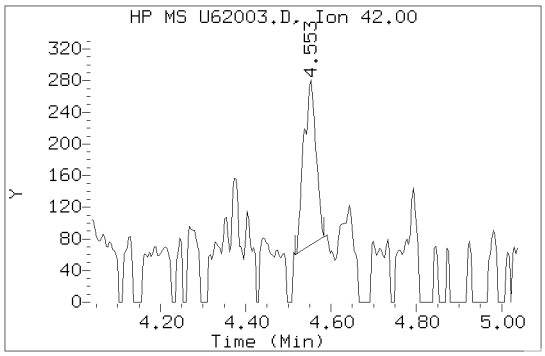
BEFORE

MASS
42
AREA
418
HEIGHT
208
29-Jun-2024
12:15
s
zaid



AFTER

MASS
42
AREA
418
HEIGHT
208
29-Jun-2024
12:18
s
zaid



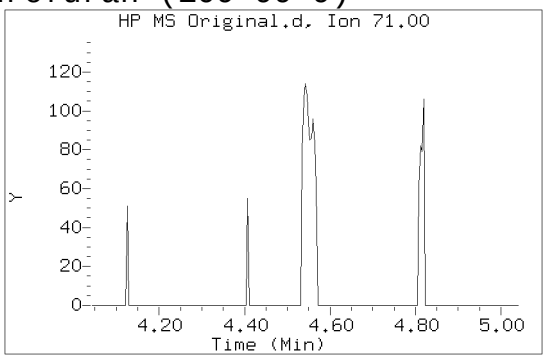
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62003.D
Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Tetrahydrofuran (109-99-9)

Reason Code:

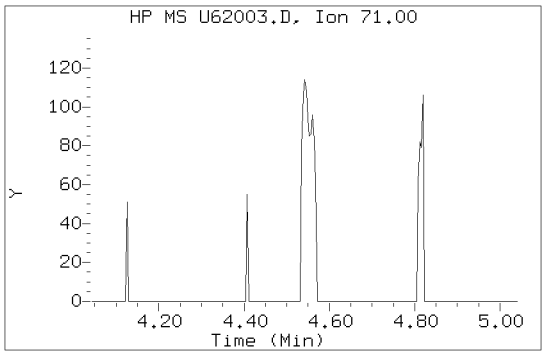
BEFORE

MASS
71
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
71
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid

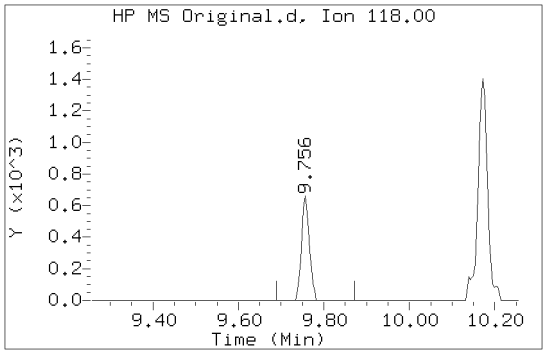


alpha-Methylstyrene (98-83-9)

Reason Code:

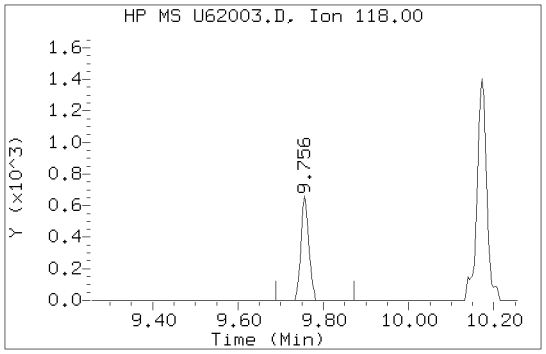
BEFORE

MASS
118
AREA
862
HEIGHT
660
29-Jun-2024
12:15
s
zaid



AFTER

MASS
118
AREA
862
HEIGHT
660
29-Jun-2024
12:18
s
zaid



BEFORE

MASS
103
AREA
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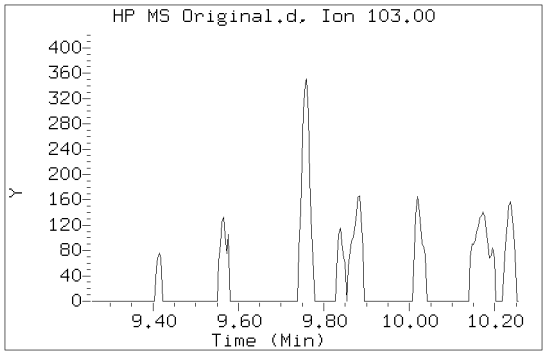
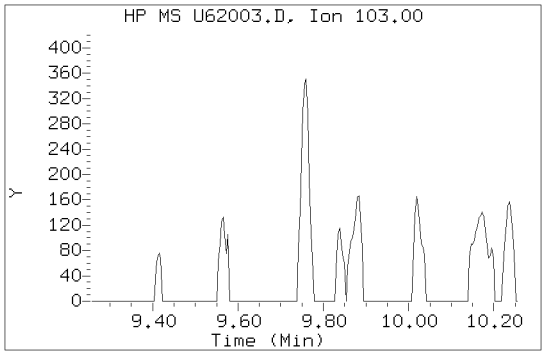
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
103
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid

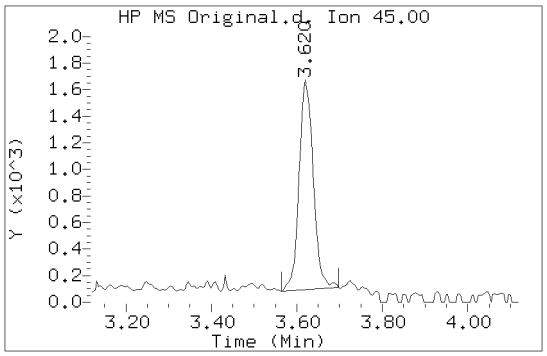


Diisopropyl ether (108-20-3)

Reason Code:

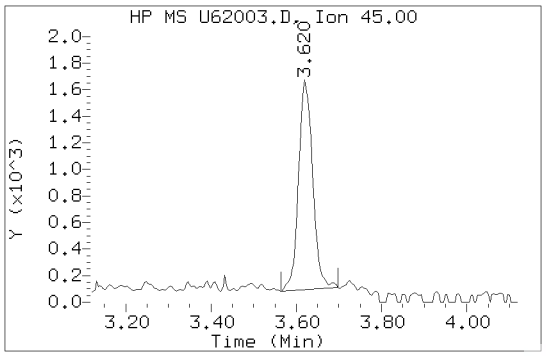
BEFORE

MASS
45
AREA
3700
HEIGHT
1578
29-Jun-2024
12:15
s
zaid



AFTER

MASS
45
AREA
3700
HEIGHT
1578
29-Jun-2024
12:18
s
zaid



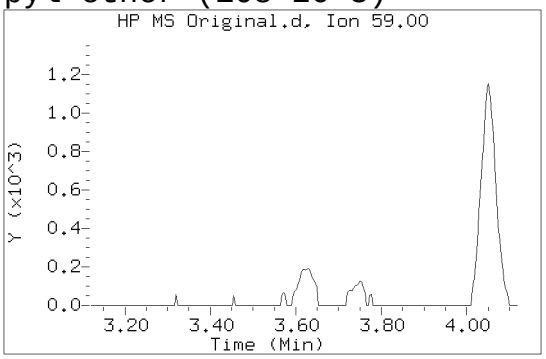
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62003.D
Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Diisopropyl ether (108-20-3)

Reason Code:

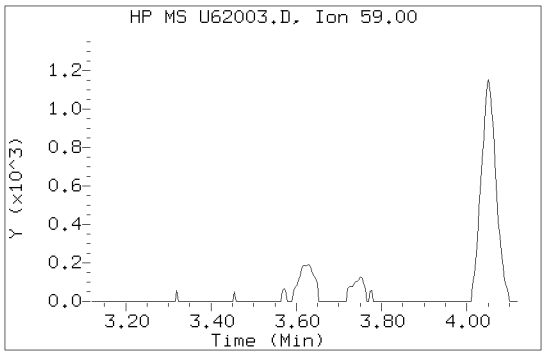
BEFORE

MASS
59
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
59
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



BEFORE

MASS
72
AREA
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HEIGHT
0
29-Jun-2024
12:15
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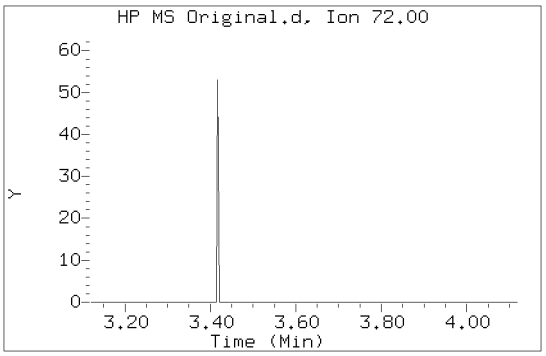
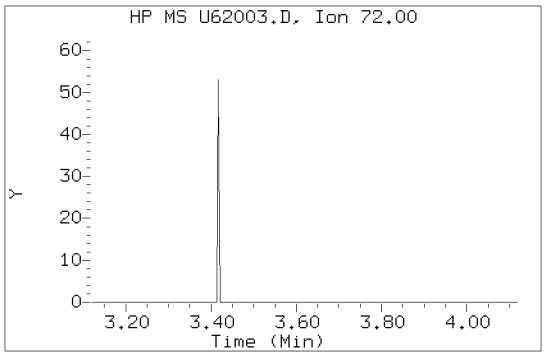
zaid



AFTER

MASS
72
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid

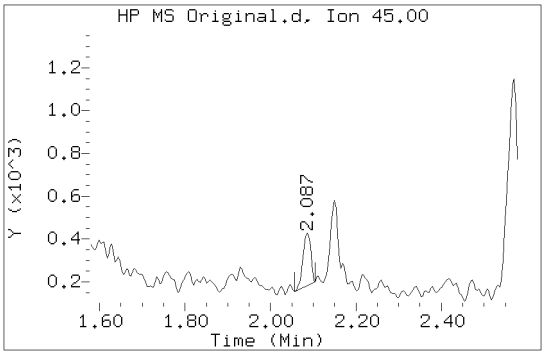


Ethanol (64-17-5)

Reason Code:

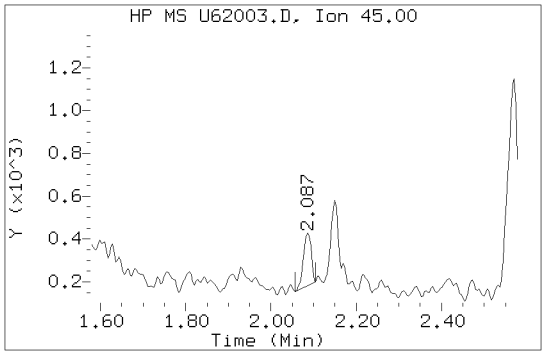
BEFORE

MASS
45
AREA
318
HEIGHT
245
29-Jun-2024
12:15
s
zaid



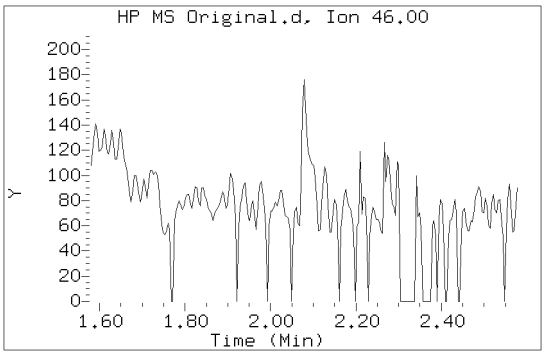
AFTER

MASS
45
AREA
318
HEIGHT
245
29-Jun-2024
12:18
s
zaid



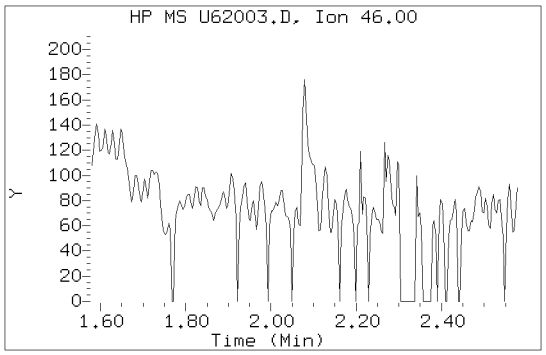
BEFORE

MASS
46
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
46
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



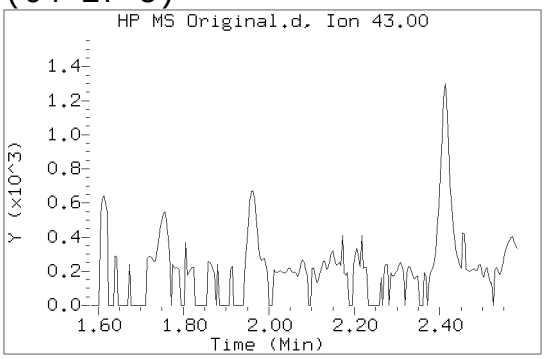
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62003.D
Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Ethanol (64-17-5)

Reason Code:

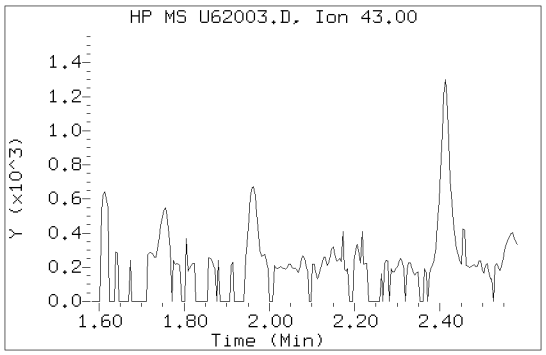
BEFORE

MASS
43
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
43
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid

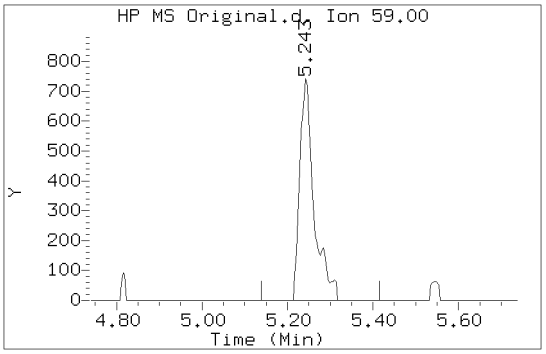


tert-Butyl formate (762-75-4)

Reason Code:

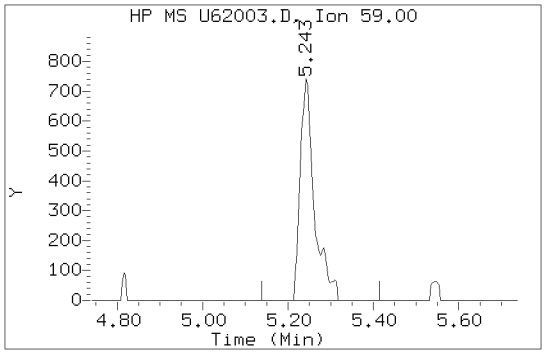
BEFORE

MASS
59
AREA
1751
HEIGHT
742
29-Jun-2024
12:15
s
zaid



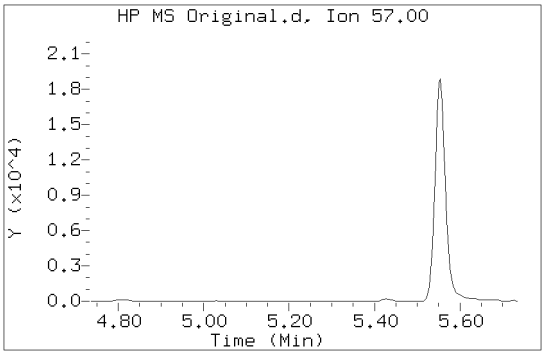
AFTER

MASS
59
AREA
1751
HEIGHT
742
29-Jun-2024
12:18
s
zaid



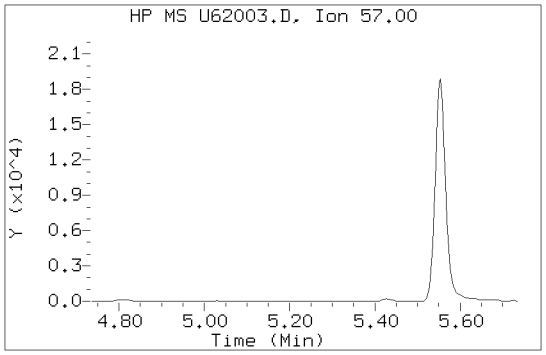
BEFORE

MASS
57
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
57
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



BEFORE

MASS
41
AREA
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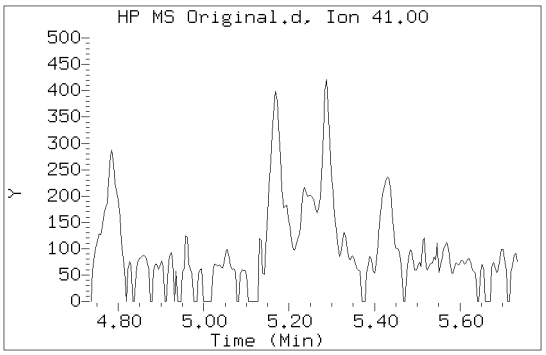
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
41
AREA
0
HEIGHT
0
29-Jun-2024
12:18
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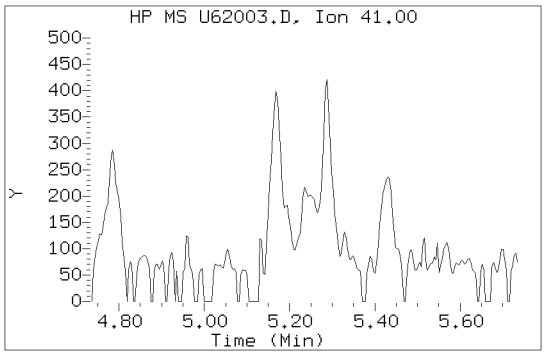
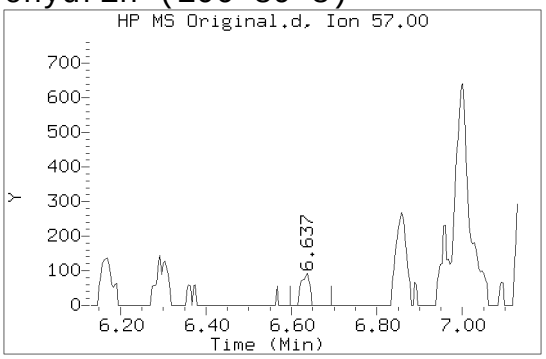
zaid



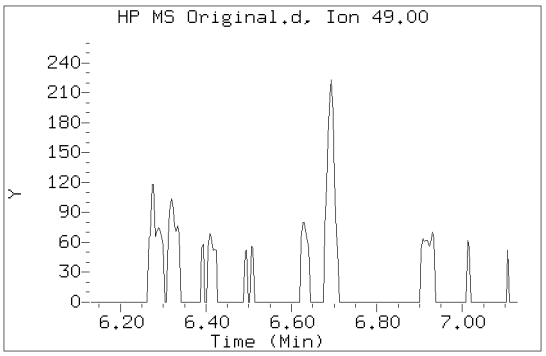
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62003.D
Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Epichlorohydrin (106-89-8)

BEFORE
MASS
57
AREA
129
HEIGHT
92
29-Jun-2024
12:15
s
zaid



BEFORE
MASS
49
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



Reason Code:

AFTER
MASS
57
AREA
129
HEIGHT
92
29-Jun-2024
12:18
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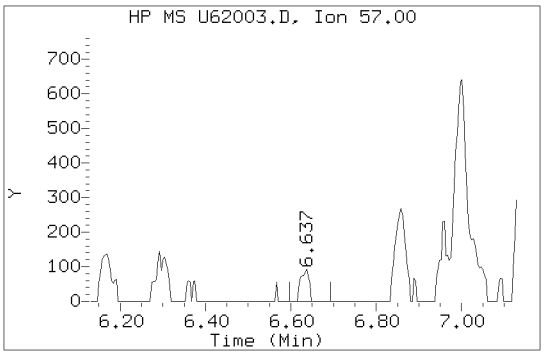
zaid



AFTER
MASS
49
AREA
0
HEIGHT
0
29-Jun-2024
12:18
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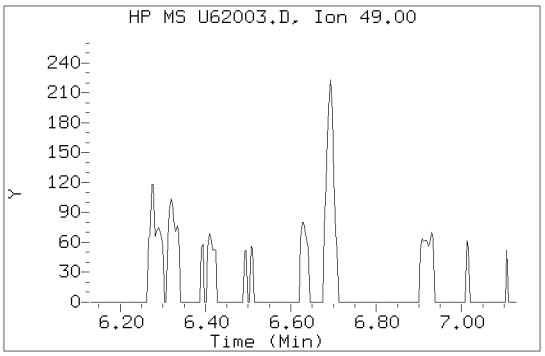
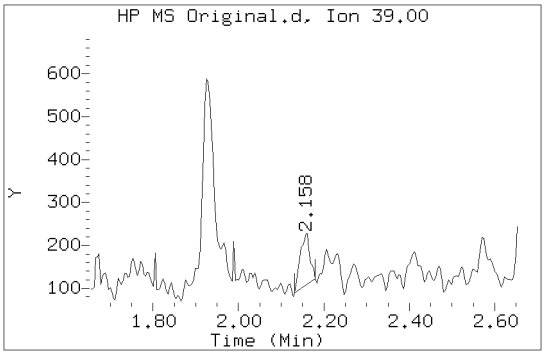
zaid

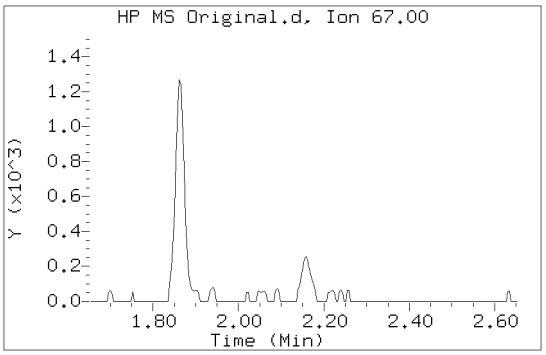


Isoprene (78-79-5)

BEFORE
MASS
39
AREA
195
HEIGHT
120
29-Jun-2024
12:15
s
zaid

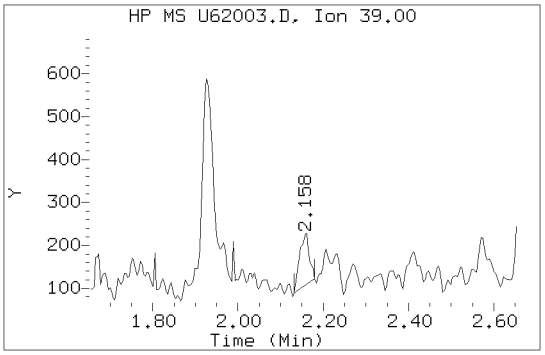


BEFORE
MASS
67
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid

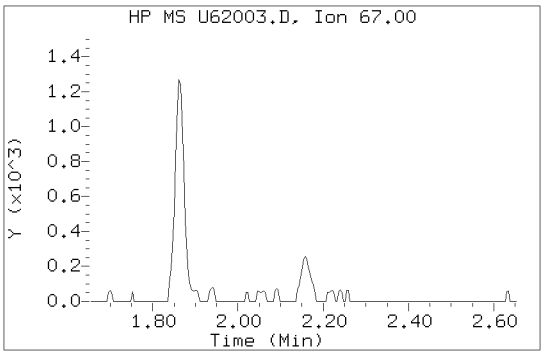


Reason Code:

AFTER
MASS
39
AREA
195
HEIGHT
120
29-Jun-2024
12:18
s
zaid



AFTER
MASS
67
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



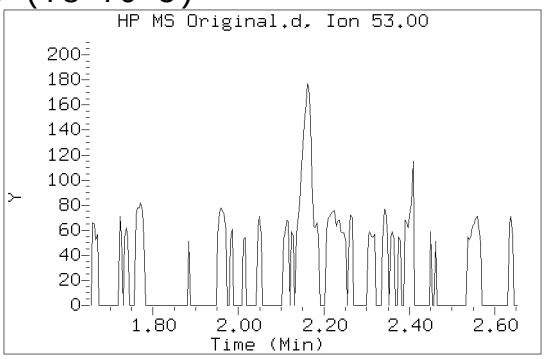
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62003.D
Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Isoprene (78-79-5)

Reason Code:

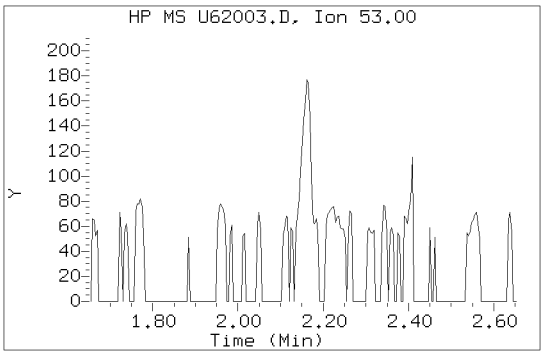
BEFORE

MASS
53
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
53
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid

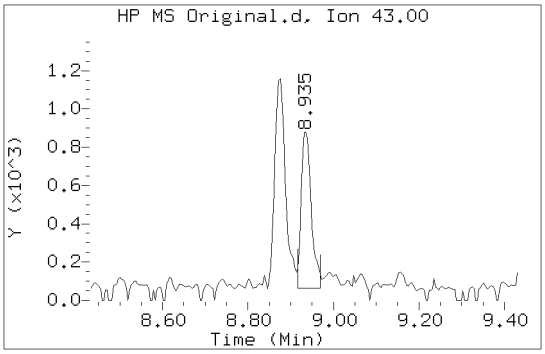


n-Amyl acetate (628-63-7)

Reason Code:

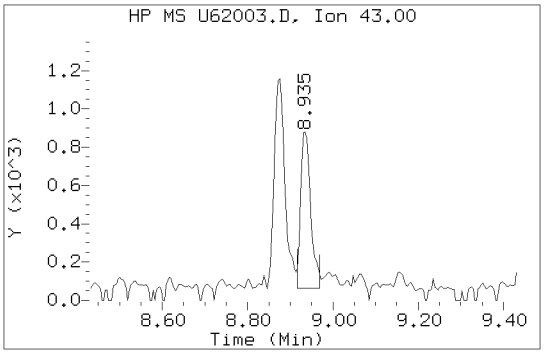
BEFORE

MASS
43
AREA
1387
HEIGHT
818
29-Jun-2024
12:15
s
zaid



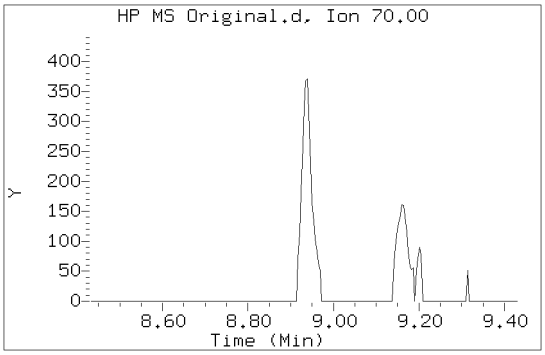
AFTER

MASS
43
AREA
1387
HEIGHT
818
29-Jun-2024
12:18
s
zaid



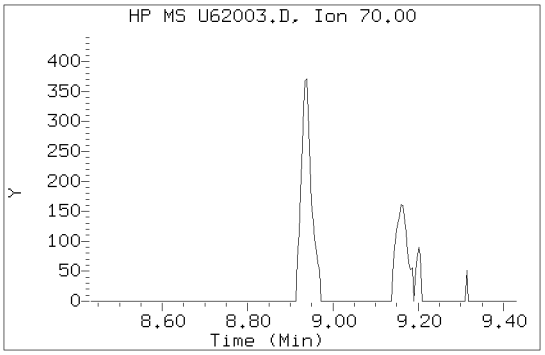
BEFORE

MASS
70
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



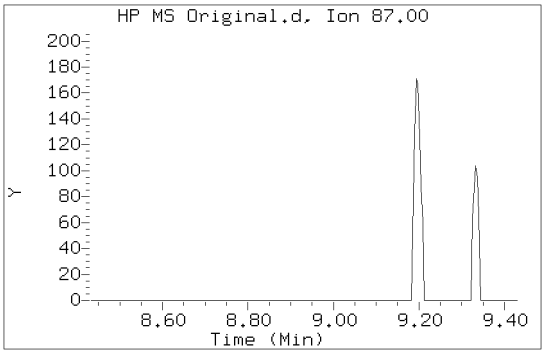
AFTER

MASS
70
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



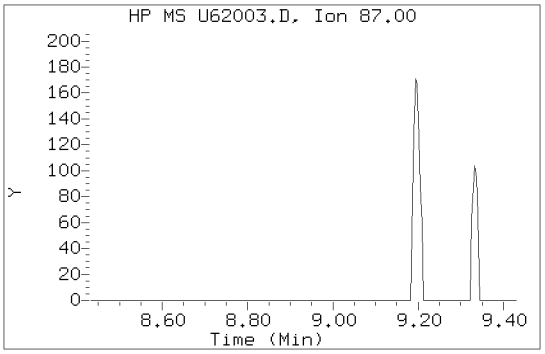
BEFORE

MASS
87
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
87
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62003.D
Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Isopropyl acetate (108-21-4)

Reason Code:

BEFORE

MASS
43
AREA
2814
HEIGHT
1184
29-Jun-2024
12:15
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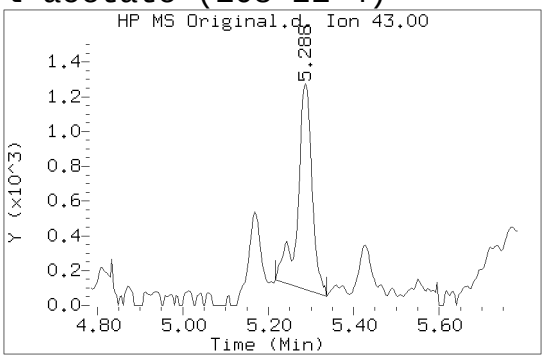
zaid



AFTER

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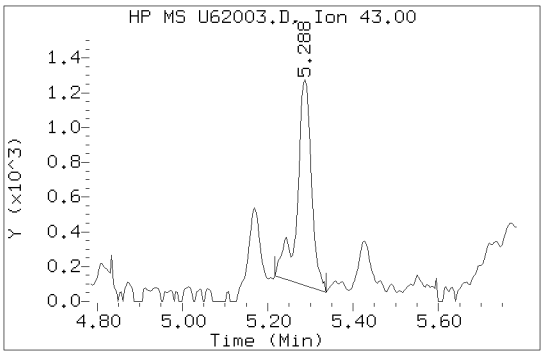

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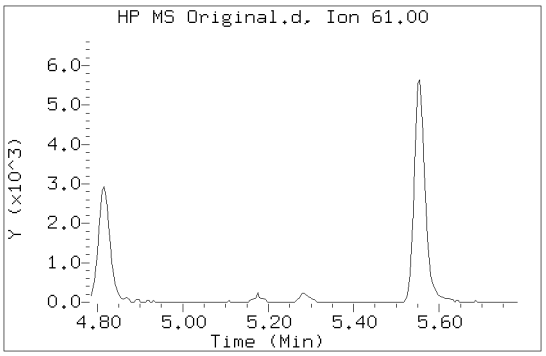

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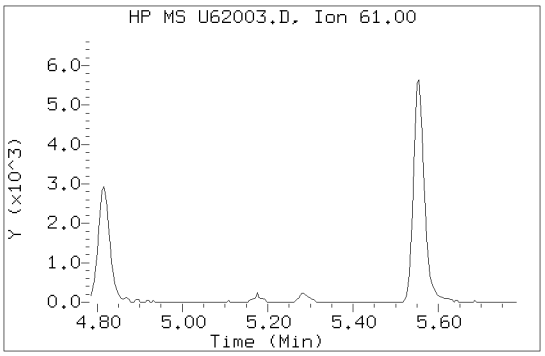

n-Butyl acetate (123-86-4)

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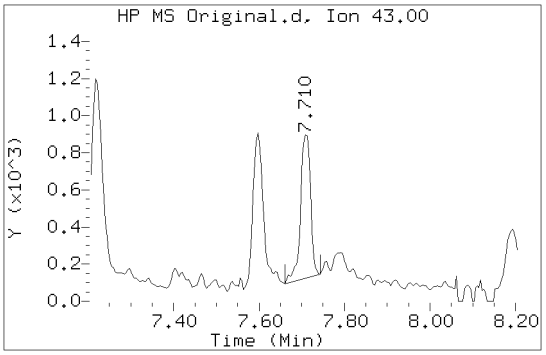

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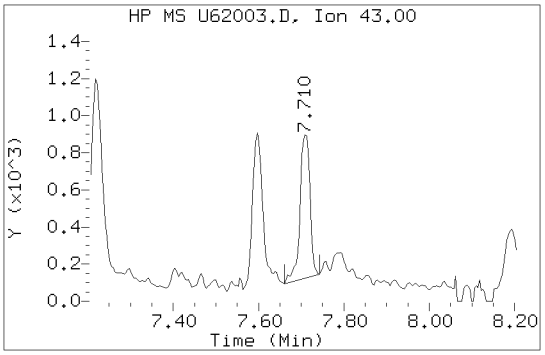

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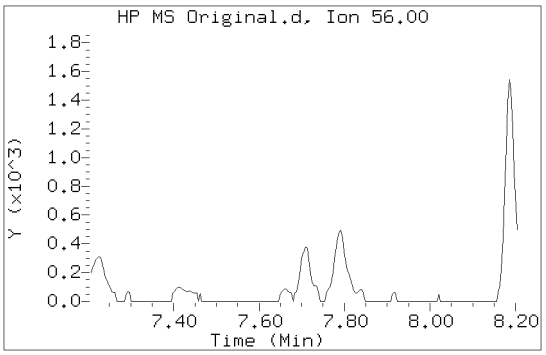

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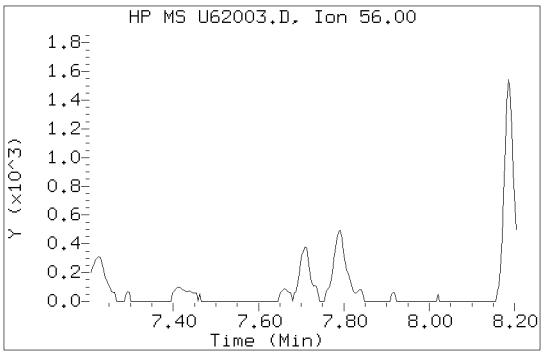

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Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

n-Butyl acetate (123-86-4)

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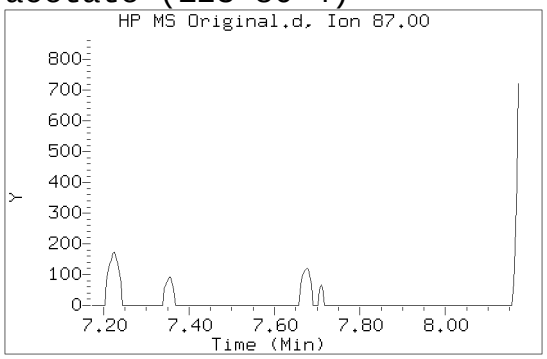

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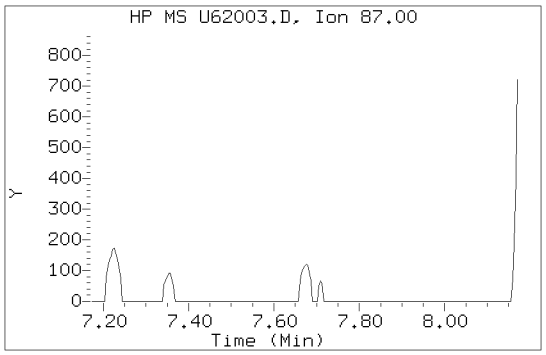

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Reason Code:

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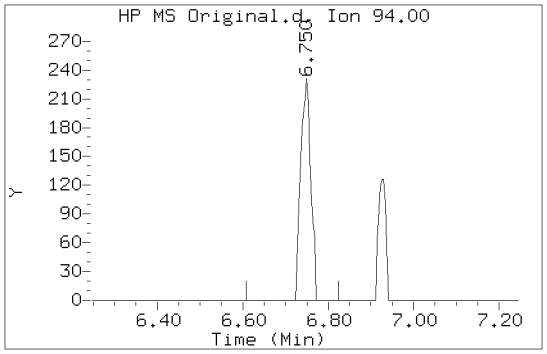

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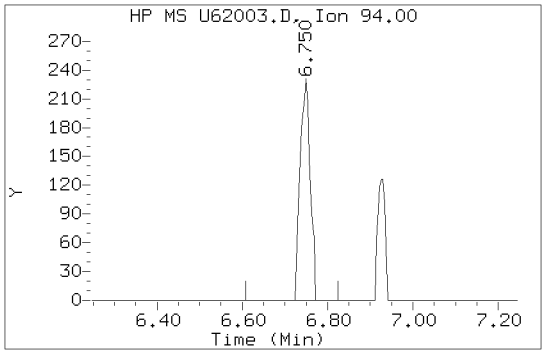

BEFORE

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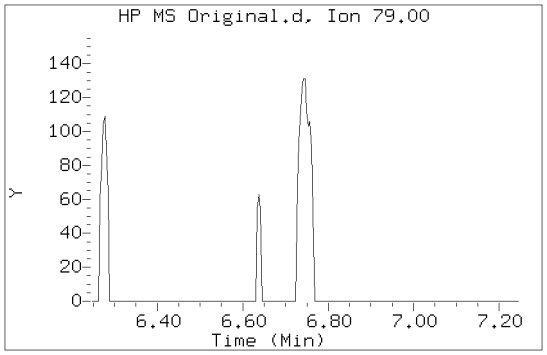

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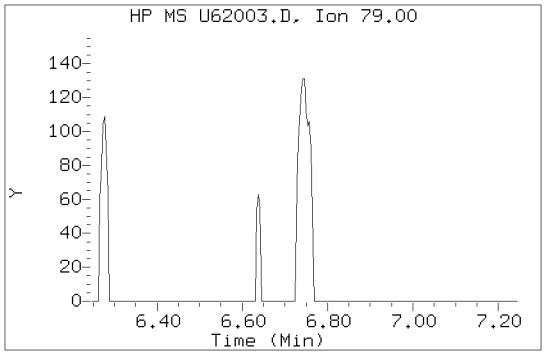

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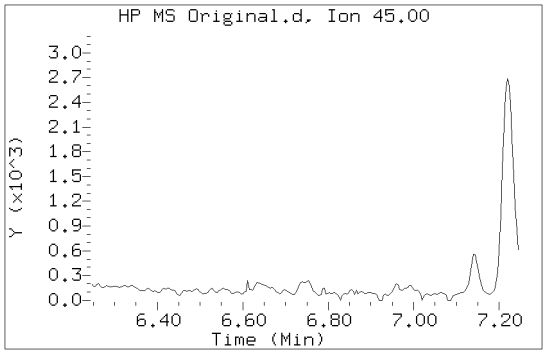

AFTER

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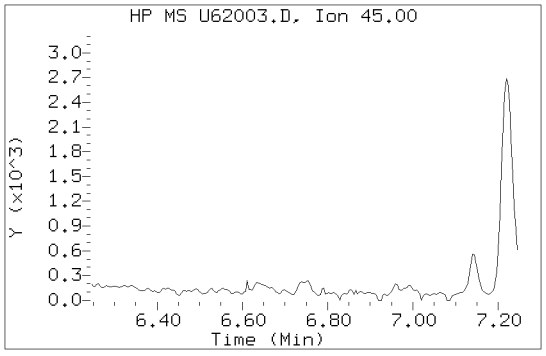

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LabSampID : VSTD00.5

sec-Butyl Ether (6863-58-7)

Reason Code:

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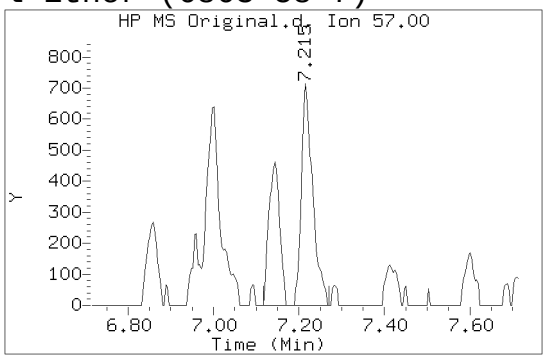

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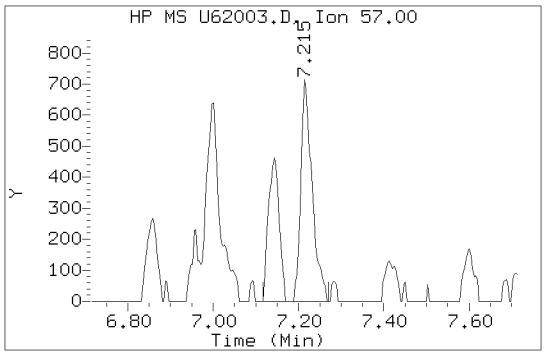

2-Chloropropene (557-98-2)

Reason Code:

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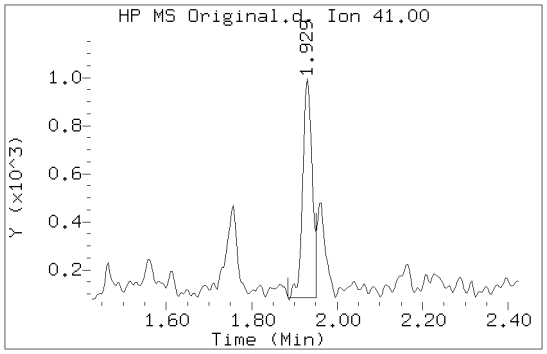

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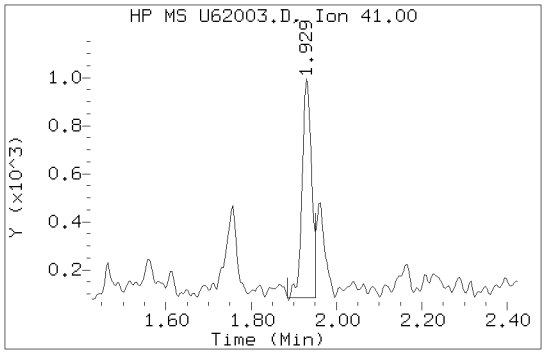

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62004.D Page 1
Report Date: 29-Jun-2024 12:15

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62004.D
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Inj Date : 20-JUN-2024 12:06
Operator : TS Inst ID: VOA9.i
Smp Info : VSTD001;VSTD001;1;3
Misc Info : V9;WATER;0;1;
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Cal Date : 20-JUN-2024 11:44 Cal File: U62003.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: NAHSTW7014

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)	237223	50.0000	
2 Dichlorodifluoromethane	85	1.164	1.164	(0.242)	1213	1.00000	0.71(M)
3 Chloromethane	50	1.295	1.295	(0.269)	8737	1.00000	0.80
4 Propionitrile	54	4.343	4.343	(0.902)	2871	10.0000	6.62(aM)
5 Vinyl Chloride	62	1.378	1.378	(0.286)	1918	1.00000	1.03(M)
6 Bromomethane	94	1.618	1.618	(0.336)	1849	1.00000	0.15(a)
7 Chloroethane	64	1.700	1.700	(0.353)	1738	1.00000	0.64
8 Trichlorofluoromethane	101	1.895	1.895	(0.394)	1563	1.00000	0.68
9 Acrolein	56	2.259	2.259	(0.469)	371	2.00000	(aM)
11 1,1-Dichloroethene	96	2.334	2.334	(0.485)	1203	1.00000	0.86
12 Isobutyl Alcohol	43	5.284	5.284	(1.097)	5036	20.0000	21.50(a)
13 Acetonitrile	39	2.671	2.671	(0.555)	1990	10.0000	0.76(a)
14 Allyl Chloride	41	2.671	2.671	(0.555)	5257	1.00000	0.74(a)
15 Iodomethane	142	2.465	2.465	(0.512)	1546	2.00000	3.43(T)
16 Acrylonitrile	53	3.065	3.065	(0.636)	1767	2.00000	2.55
17 Methylene Chloride	84	2.791	2.791	(0.580)	3728	1.00000	0.64
18 Methyl tert-butyl ether	73	3.080	3.080	(0.640)	4855	1.00000	1.59
19 Carbon Disulfide	76	2.517	2.517	(0.523)	6497	2.00000	1.70(M)
20 trans-1,2-Dichloroethene	96	3.057	3.057	(0.635)	1556	1.00000	0.46(a)
21 Vinyl Acetate	43	4.343	4.343	(0.902)	2234	2.00000	2.38(M)

22 1,1-Dichloroethane	63	3.511	3.511 (0.729)	3062	1.00000	0.33(Ta)
23 Chloroprene	53	3.608	3.608 (0.749)	2091	1.00000	0.64(a)

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62004.D Page 2
Report Date: 29-Jun-2024 12:15

			QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	24	2-Butanone	43	4.272	4.272	(0.887)	2089	2.00000	2.68(M)
	25	Methacrylonitrile	41	4.500	4.500	(0.935)	1366	1.00000	2.12(aM)
	26	2,2-Dichloropropane	77	4.178	4.178	(0.868)	1823	1.00000	1.38(M)
	27	cis-1,2-Dichloroethene	96	4.193	4.193	(0.871)	1910	1.00000	0.74
	28	Chloroform	83	4.568	4.568	(0.949)	3088	1.00000	0.23(a)
	29	Bromochloromethane	128	4.467	4.467	(0.928)	942	1.00000	0.99
$	30	Dibromofluoromethane	113	4.748	4.748	(0.986)	1342	1.00000	0.85
	31	1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	1578	1.00000	0.71
	32	1,1-Dichloropropene	75	4.920	4.920	(0.887)	1570	1.00000	0.72(M)
	34	Carbon Tetrachloride	117	4.909	4.909	(0.885)	1323	1.00000	0.73(M)
$	35	1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	1907	1.00000	0.94(T)
*	36	1,4-Difluorobenzene	114	5.550	5.550	(1.000)	354258	50.0000	
	37	Benzene	78	5.138	5.138	(0.926)	7178	1.00000	0.98
	38	Trichloroethene	130	5.790	5.790	(1.043)	1551	1.00000	0.87(a)
	39	Bromodichloromethane	83	6.273	6.273	(1.130)	1865	1.00000	0.90(aM)
	40	Methyl Methacrylate	41	5.827	5.827	(1.210)	587	1.00000	0.94(aM)
	42	1,2-Dichloropropane	63	6.007	6.007	(1.082)	1860	1.00000	0.96(a)
	43	2-Nitropropane	43	6.510	6.510	(1.352)	357	1.00000	0.95(aM)
	44	Dibromomethane	93	6.120	6.120	(1.103)	1078	1.00000	0.95(a)
	45	4-Methyl-2-Pentanone	43	6.854	6.854	(0.837)	3187	2.00000	1.82(a)
	46	cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	2008	1.00000	0.83(a)
*	47	Chlorobenzene-d5	117	8.185	8.185	(1.000)	316055	50.0000	
$	48	Toluene-d8	98	6.922	6.922	(0.846)	5525	1.00000	0.90(a)
	49	Ethyl Methacrylate	69	7.293	7.293	(1.314)	1885	1.00000	0.83(a)
	50	Toluene	91	6.982	6.982	(0.853)	6432	1.00000	0.89(a)
	51	trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	1381	1.00000	2.81(aM)
	52	2-Hexanone	43	7.218	7.218	(0.882)	3306	2.00000	1.97(a)
	53	1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	1411	1.00000	1.01(a)
	54	1,3-Dichloropropane	76	7.499	7.499	(0.916)	2872	1.00000	0.98(a)
	55	Dibromochloromethane	129	7.690	7.690	(0.940)	1224	1.00000	0.84(a)
	56	Tetrachloroethene	164	7.458	7.458	(0.911)	1175	1.00000	0.87(a)
	57	1,2-Dibromoethane	107	7.784	7.784	(0.951)	1379	1.00000	0.89(a)
	58	1-Chlorohexane	55	8.185	8.185	(1.475)	4107	1.00000	2.31(a)
	59	Chlorobenzene	112	8.208	8.208	(1.003)	4783	1.00000	0.32(a)
	60	1,1,1,2-Tetrachloroethane	131	8.286	8.286	(1.012)	1412	1.00000	0.91(a)
	61	Ethylbenzene	106	8.305	8.305	(1.015)	1810	1.00000	0.81(a)
	62	m,p-Xylenes	106	8.410	8.410	(1.027)	4030	2.00000	1.51(a)
	63	o-Xylene	106	8.751	8.751	(1.069)	2119	1.00000	0.80(a)
	64	Styrene	104	8.763	8.763	(1.071)	3240	1.00000	0.73(a)
	66	Bromoform	173	8.920	8.920	(1.090)	774	1.00000	1.74(aM)
	67	Isopropylbenzene	105	9.062	9.062	(1.107)	4712	1.00000	0.72(a)
	68	1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	2063	1.00000	0.70(aM)
$	69	4-Bromofluorobenzene	95	9.194	9.194	(1.123)	2909	1.00000	1.20(a)
*	70	1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	163582	50.0000	
	71	1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	2095	1.00000	1.82(a)
	72	trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	399	1.00000	0.90(aM)
	73	n-Propylbenzene	91	9.415	9.415	(0.926)	5205	1.00000	0.73(a)
	74	Bromobenzene	156	9.317	9.317	(0.916)	1758	1.00000	0.91(a)
	75	1,3,5-Trimethylbenzene	105	9.565	9.565	(0.940)	3570	1.00000	2.33(a)
	76	2-Chlorotoluene	91	9.486	9.486	(0.933)	4277	1.00000	0.89(a)
	77	4-Chlorotoluene	91	9.576	9.576	(0.941)	4871	1.00000	0.89(a)
	78	tert-Butylbenzene	119	9.838	9.838	(0.967)	3275	1.00000	0.75(a)

79 1,2,4-Trimethylbenzene	105	9.880	9.880 (0.971)	6112	1.00000	1.17(aM)
81 sec-Butylbenzene	105	10.022	10.022 (0.985)	4360	1.00000	0.75(a)

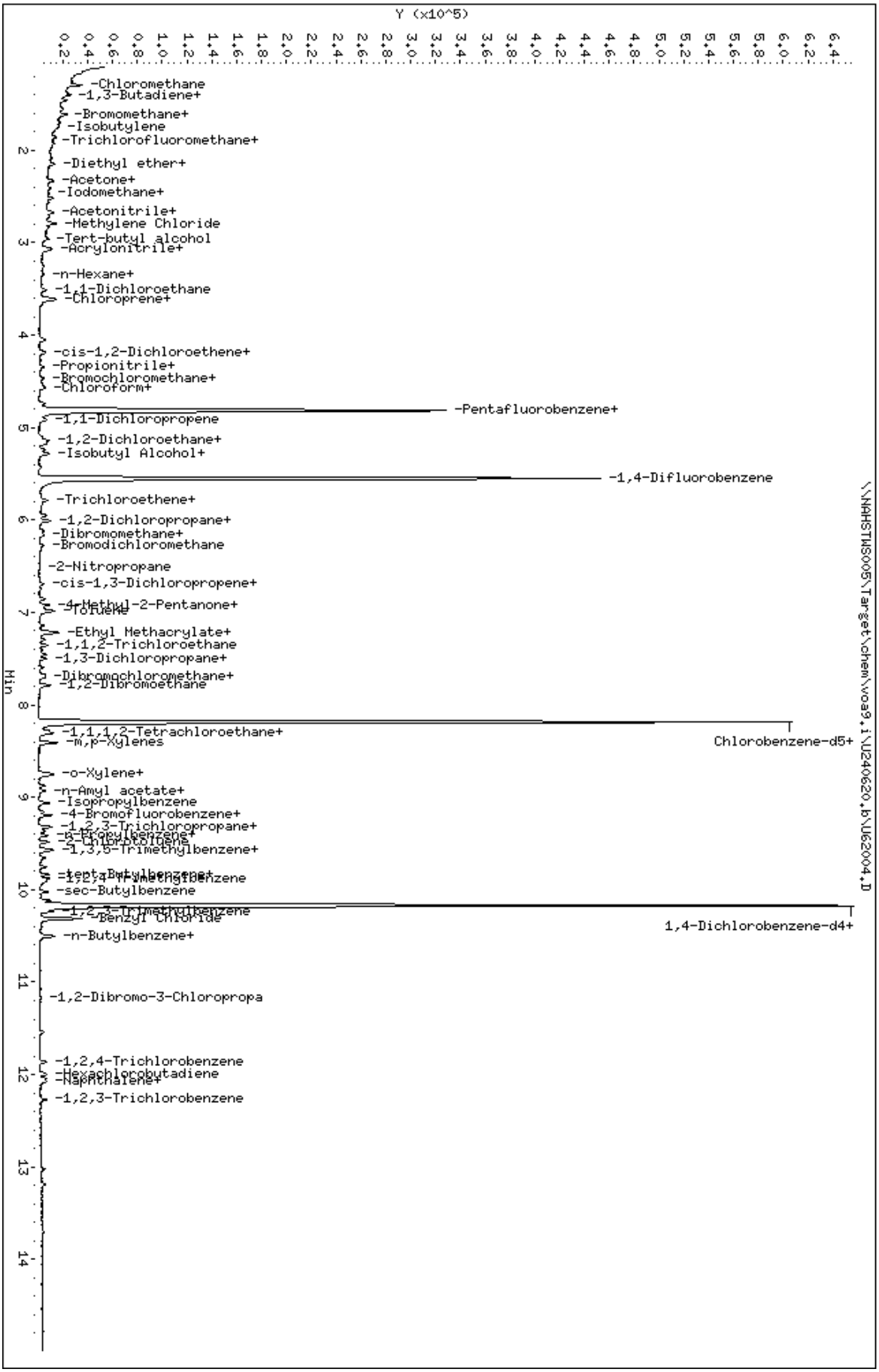
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
82	p-Isopropyltoluene	119	10.150	10.150	(0.998)	3438	1.00000	2.24(a)
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	3343	1.00000	0.94(a)
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	3940	1.00000	0.54(a)
86	Benzyl Chloride	91	10.315	10.315	(1.260)	23420	1.00000	3.55(a)
87	n-Butylbenzene	91	10.494	10.494	(1.032)	2847	1.00000	1.92(a)
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	3460	1.00000	0.98(a)
89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	163	1.00000	0.91(aM)
90	1,2,4-Trichlorobenzene	180	11.863	11.863	(1.166)	1929	1.00000	0.90(aM)
91	Hexachlorobutadiene	225	11.998	11.998	(1.179)	909	1.00000	0.96(aM)
92	Naphthalene	128	12.073	12.073	(1.187)	3393	1.00000	2.61(a)
93	1,2,3-Trichlorobenzene	180	12.275	12.275	(1.207)	1793	1.00000	0.91(aM)
146	Methyl acetate	43	2.708	2.708	(0.563)	1432	1.00000	(aM)
141	Cyclohexane	56	4.815	4.815	(1.000)	5426	1.00000	1.45(a)
142	Tetrahydrofuran	42	4.549	4.549	(0.945)	580	2.00000	2.06(aM)
147	Methylcyclohexane	55	5.947	5.947	(1.072)	3011	1.00000	0.80(a)
135	1,4-Dioxane	88	6.172	6.172	(1.282)	731	20.0000	3.54(aM)
132	n-Butanol	56	5.831	5.831	(1.211)	943	20.0000	21.17(a)
136	n-Hexane	57	3.342	3.342	(0.694)	1023	1.00000	0.67(Ta)
139	Diethyl ether	59	2.142	2.142	(0.445)	1489	1.00000	0.33(a)
148	Tert-butyl alcohol	59	2.963	2.963	(0.615)	3648	20.0000	14.62
149	Isopropyl alcohol	45	2.562	2.562	(0.532)	2486	20.0000	8.83(T)
156	Diisopropyl ether	45	3.619	3.619	(0.752)	6473	1.00000	1.13(Ta)
162	Butyl acrylate	55	8.736	8.736	(1.067)	2642	1.00000	0.90(a)
164	Dicyclopentadiene	66	10.202	10.202	(1.003)	6874	1.00000	0.97(a)
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	4790	1.00000	1.02(a)
167	Ethanol	45	2.079	2.079	(0.432)	748	20.0000	14.58
172	tert-Butyl formate	59	5.239	5.239	(1.088)	2782	2.00000	1.54(aM)
151	4-Methyl-2-pentanol	45	7.218	7.218	(1.301)	8799	20.0000	18.01
140	1,3-Butadiene	54	1.404	1.404	(0.292)	1536	1.00000	0.75(a)
182	Epichlorohydrin	57	6.630	6.630	(1.195)	188	4.00000	7.99(M)
M 94	1,2-Dichloroethylene (total)	96				3466	2.00000	(a)
130	Ethyl Acetate	43	4.534	4.534	(0.942)	903	1.00000	(aM)
131	Methyl Acrylate	55	4.377	4.377	(0.909)	2131	1.00000	1.08(aM)
189	n-Butyl acetate	43	7.709	7.709	(0.942)	2103	1.00000	0.83(aM)
134	Cyclohexanone	55	9.156	9.156	(0.900)	2164	20.0000	17.93(Ta)
185	Isoprene	39	2.146	2.146	(0.446)	260	1.00000	0.75(aM)
188	Isopropyl acetate	43	5.284	5.284	(0.952)	4316	1.00000	0.91(aM)
150	Allyl alcohol	57	3.342	3.342	(0.694)	1023	20.0000	13.45
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	761	1.00000	1.99(aM)
202	Isobutylene	41	1.745	1.745	(0.362)	329	1.00000	1.71(aM)
133	Ethyl Acrylate	55	5.947	5.947	(1.235)	3253	1.00000	0.87(aM)
163	Butyl methacrylate	41	9.651	9.651	(0.949)	2158	1.00000	0.70(a)
178	Ethylene oxide	44	1.606	1.606	(0.334)	2844	2.00000	1.61(aM)
203	2-Ethylhexyl Acrylate	55	12.046	12.046	(1.184)	1803	1.00000	2.29(a)
204	Tetrahydrothiophene	60	7.675	7.675	(0.938)	1763	1.00000	0.98(aA)
205	sec-Butyl Ether	57	7.218	7.218	(0.882)	3683	1.00000	1.04(aAM)
187	n-Amyl acetate	43	8.935	8.935	(1.092)	2778	1.00000	0.99(aM)
206	2-Chloropropene	41	1.925	1.925	(0.400)	1854	1.00000	0.76(aAM)

QC Flag Legend

T - Target compound detected outside RT window.
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.
M - Compound response manually integrated.



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Date : 20-JUN-2024 12:06
Client ID: VSTD001
Sample Info: VSTD001;VSTD001;1;3
Purge Volume: 5.0
Column phase: DB624

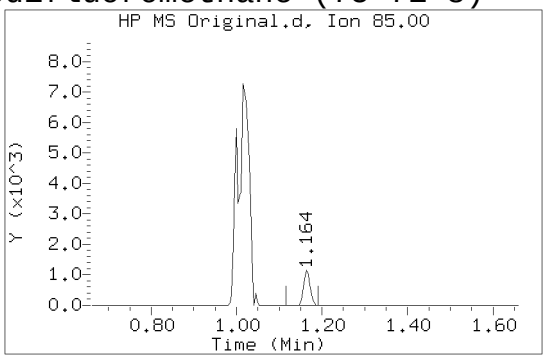
Instrument: VOA9,i
Operator: TS
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62004.D
Inj Date : 20-JUN-2024 12:06
InstruID : VOA9.i
LabSampID : VSTD001

Dichlorodifluoromethane (75-71-8)

Reason Code:

BEFORE
MASS
85
AREA
1213
HEIGHT
1152
29-Jun-2024
12:15
s
zaid



AFTER
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85
AREA
1213
HEIGHT
1152
29-Jun-2024
12:15
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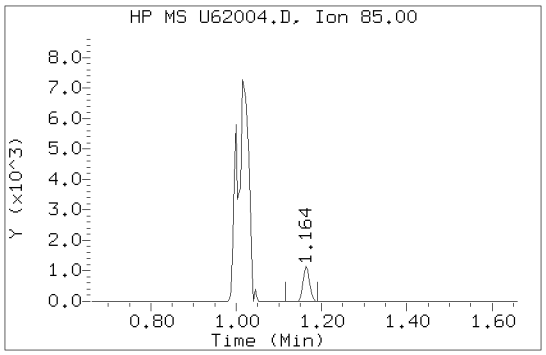

BEFORE
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AREA
410
HEIGHT
413
29-Jun-2024
12:15
s
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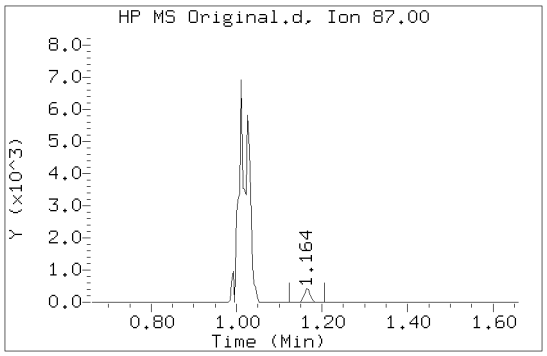

AFTER
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AREA
410
HEIGHT
413
29-Jun-2024
12:15
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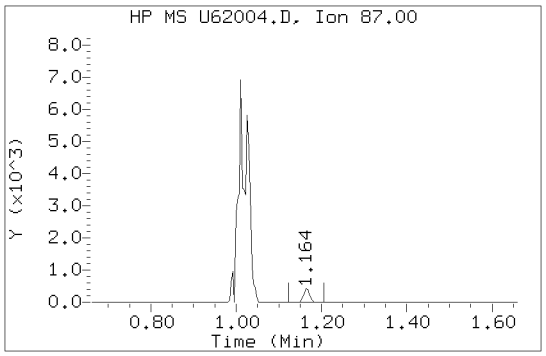

Vinyl Chloride (75-01-4)

Reason Code:

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MASS
62
AREA
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HEIGHT
1608
29-Jun-2024
12:15
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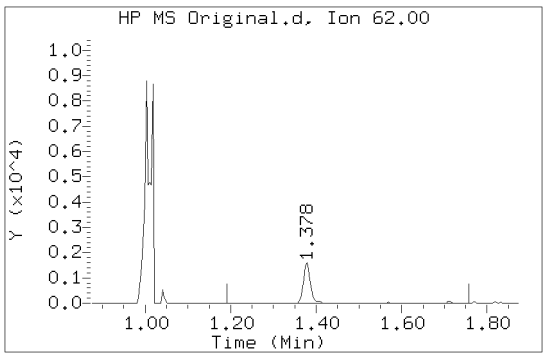
zaid



AFTER
MASS
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AREA
1918
HEIGHT
1608
29-Jun-2024
12:15
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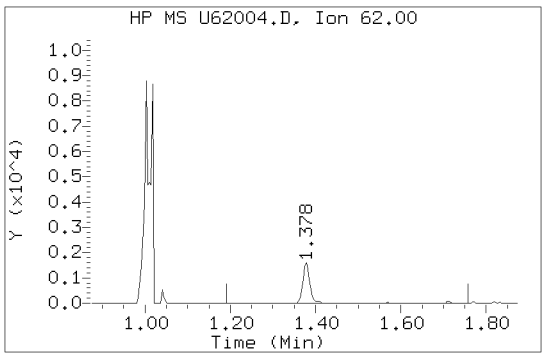
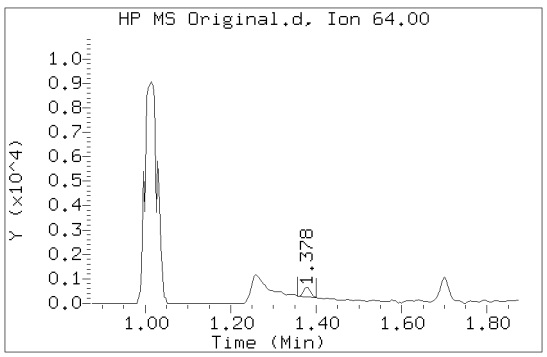


BEFORE
MASS
64
AREA
456
HEIGHT
383
29-Jun-2024
12:15
s
zaid



AFTER
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AREA
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HEIGHT
383
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12:15
s
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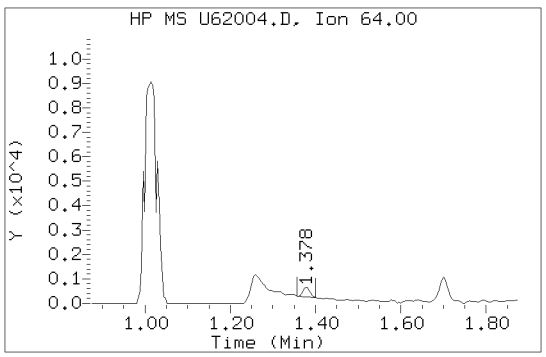

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Inj Date : 20-JUN-2024 12:06
InstruID : VOA9.i
LabSampID : VSTD001

Carbon Disulfide (75-15-0)

Reason Code:

BEFORE
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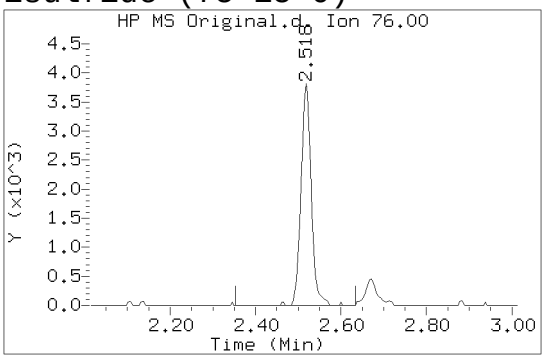
AREA
6497
HEIGHT
3814
29-Jun-2024
12:15
s
zaid



AFTER
MASS
76
AREA
6497
HEIGHT
3814
29-Jun-2024
12:15
s
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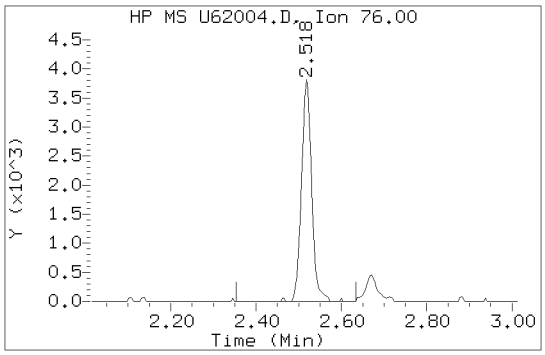

BEFORE
MASS
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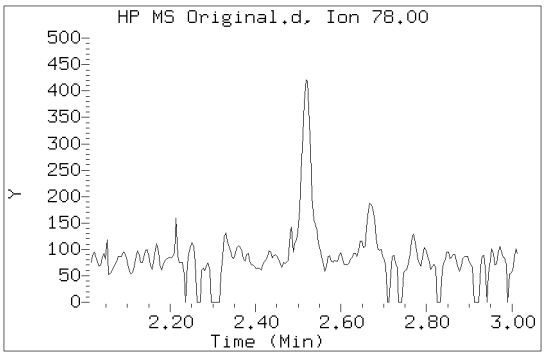
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER
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AREA
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HEIGHT
0
29-Jun-2024
12:15
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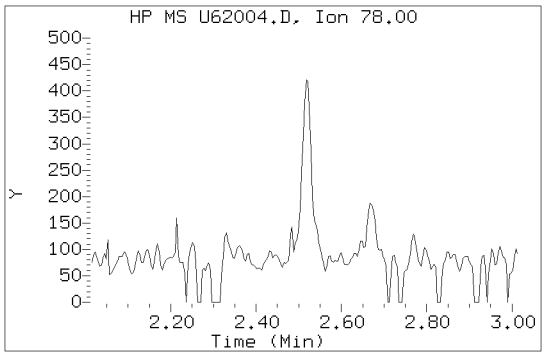

2-Butanone (78-93-3)

Reason Code:

BEFORE
MASS
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AREA
2089
HEIGHT
834
29-Jun-2024
12:15
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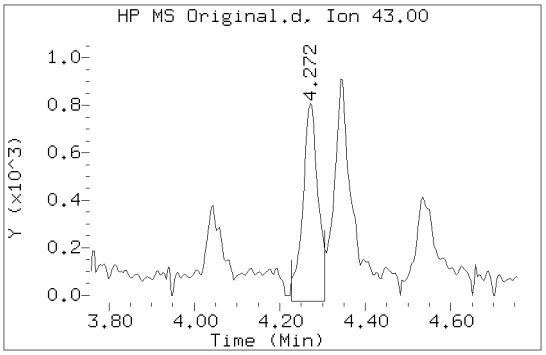
zaid



AFTER
MASS
43
AREA
2089
HEIGHT
834
29-Jun-2024
12:15
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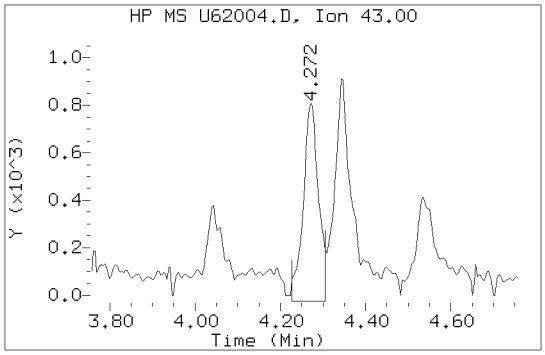
zaid



BEFORE
MASS
72
AREA
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HEIGHT
0
29-Jun-2024
12:15
s
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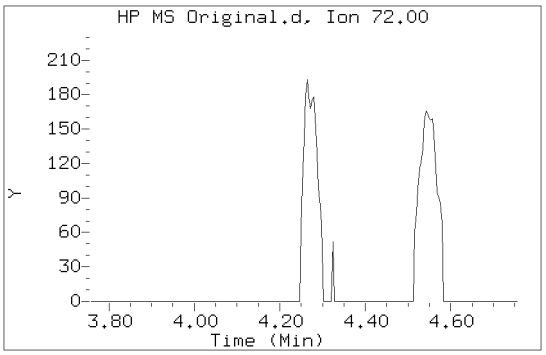

AFTER
MASS
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AREA
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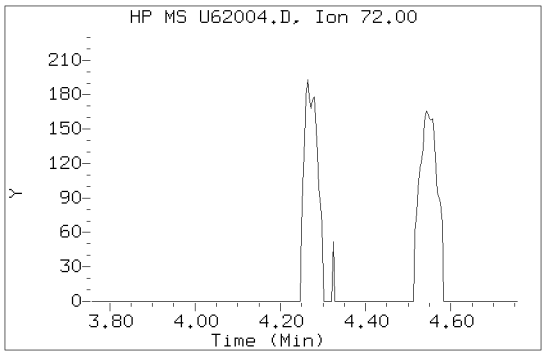
HEIGHT
0
29-Jun-2024
12:15
s
zaid



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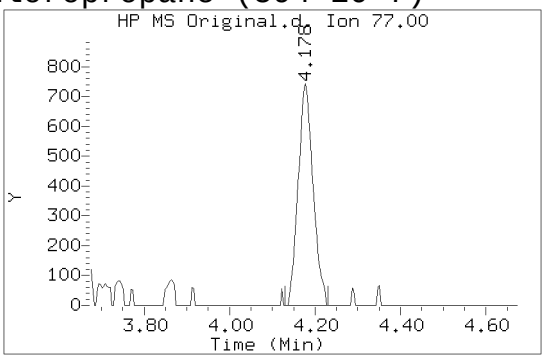
Inj Date : 20-JUN-2024 12:06
InstruID : VOA9.i
LabSampID : VSTD001

2,2-Dichloropropane (594-20-7)

Reason Code:

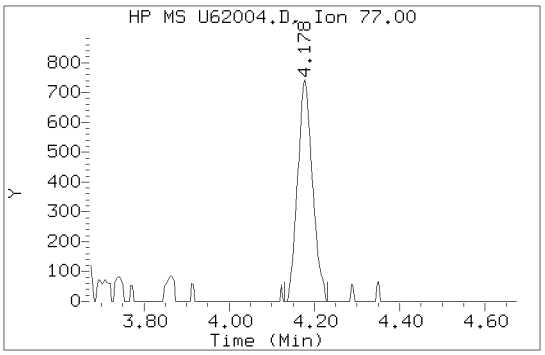
BEFORE

MASS
77
AREA
1823
HEIGHT
743
29-Jun-2024
12:15
s
zaid



AFTER

MASS
77
AREA
1823
HEIGHT
743
29-Jun-2024
12:15
s
zaid



BEFORE

MASS
97
AREA
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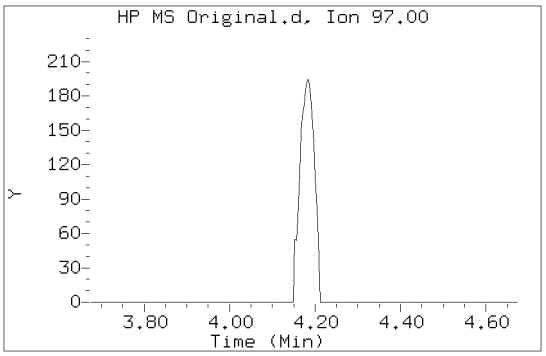
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
97
AREA
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HEIGHT
0
29-Jun-2024
12:15
s
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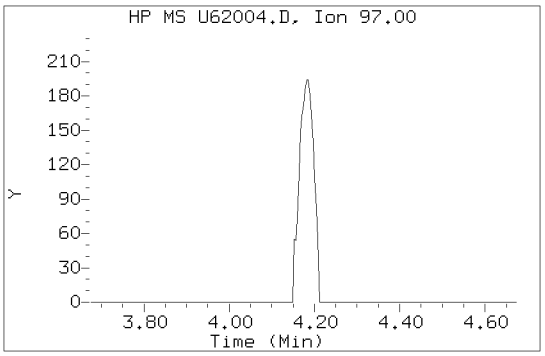
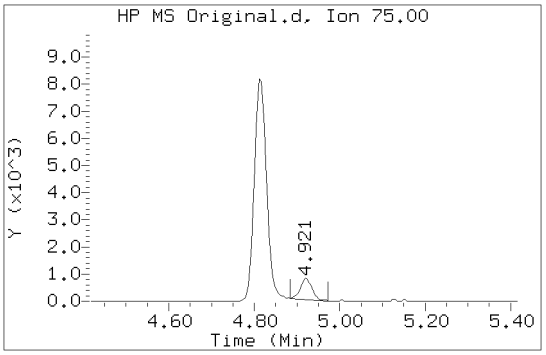


1,1-Dichloropropene (563-58-6)

Reason Code:

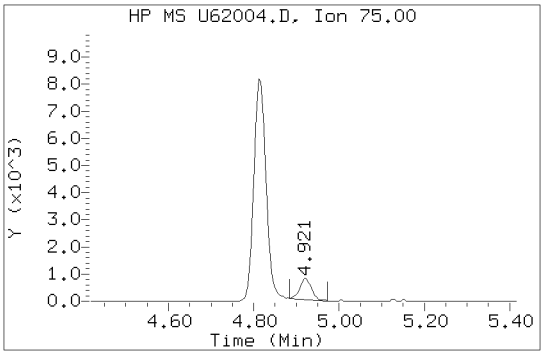
BEFORE

MASS
75
AREA
1570
HEIGHT
807
29-Jun-2024
12:15
s
zaid



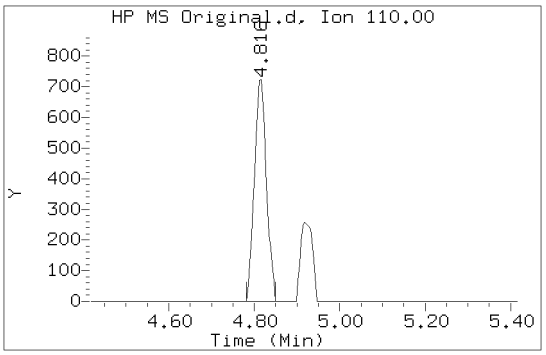
AFTER

MASS
75
AREA
1570
HEIGHT
807
29-Jun-2024
12:15
s
zaid



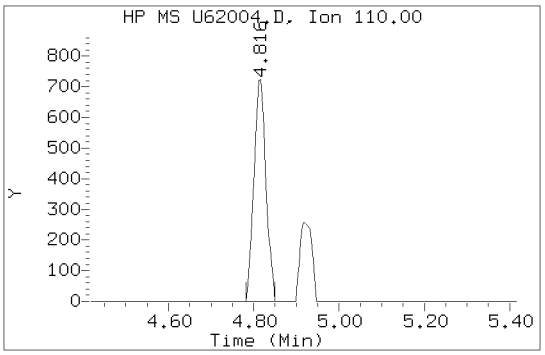
BEFORE

MASS
110
AREA
1415
HEIGHT
723
29-Jun-2024
12:15
s
zaid



AFTER

MASS
110
AREA
1415
HEIGHT
723
29-Jun-2024
12:15
s
zaid



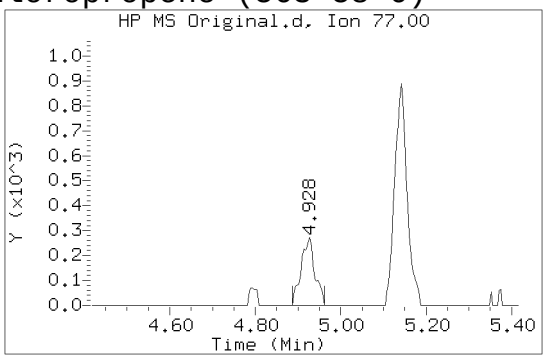
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62004.D
Inj Date : 20-JUN-2024 12:06
InstruID : VOA9.i
LabSampID : VSTD001

1,1-Dichloropropene (563-58-6)

Reason Code:

BEFORE

MASS
77
AREA
615
HEIGHT
273
29-Jun-2024
12:15
s
zaid



AFTER

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HEIGHT
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29-Jun-2024
12:15
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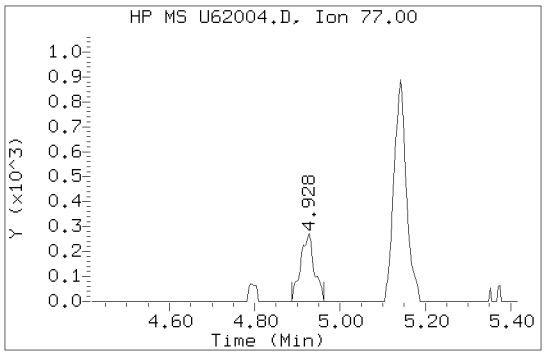

Carbon Tetrachloride (56-23-5)

Reason Code:

BEFORE

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AREA
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HEIGHT
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29-Jun-2024
12:15
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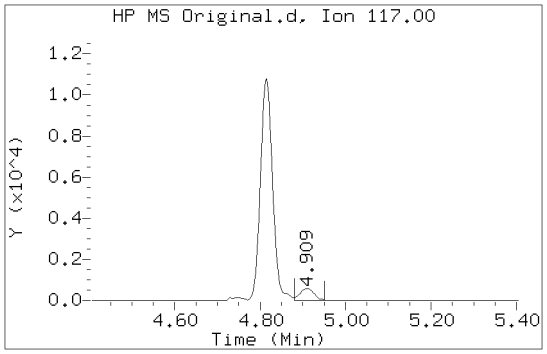
zaid



AFTER

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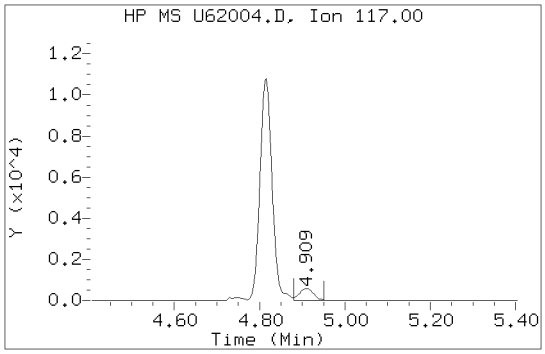
1323
HEIGHT
565
29-Jun-2024
12:15
s
zaid



BEFORE

MASS
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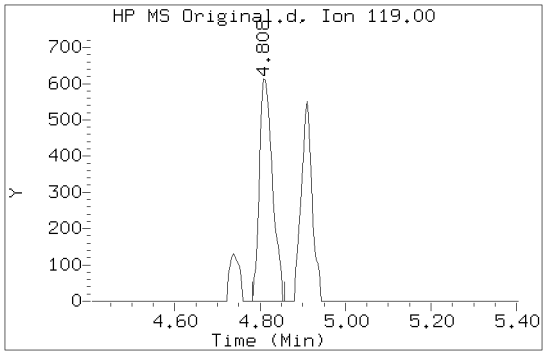
AREA
1306
HEIGHT
613
29-Jun-2024
12:15
s
zaid



AFTER

MASS
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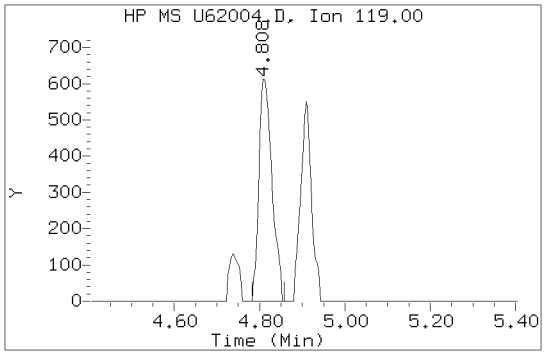
AREA
1306
HEIGHT
613
29-Jun-2024
12:15
s
zaid



Bromodichloromethane (75-27-4)

Reason Code:

BEFORE

MASS
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AREA
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29-Jun-2024
12:15
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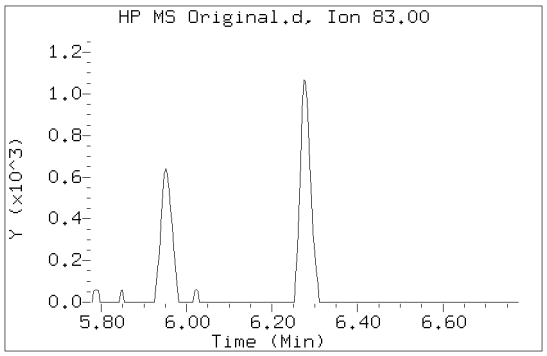

AFTER

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29-Jun-2024
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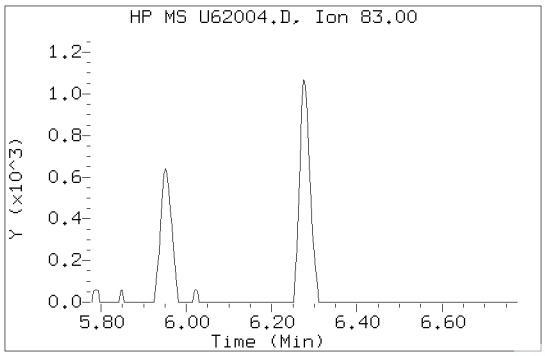
zaid



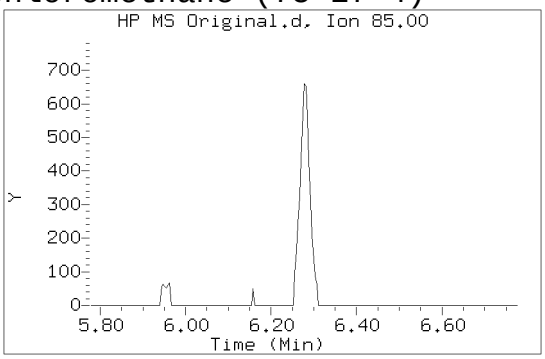
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62004.D
Inj Date : 20-JUN-2024 12:06
InstruID : VOA9.i
LabSampID : VSTD001

Bromodichloromethane (75-27-4)

Reason Code:

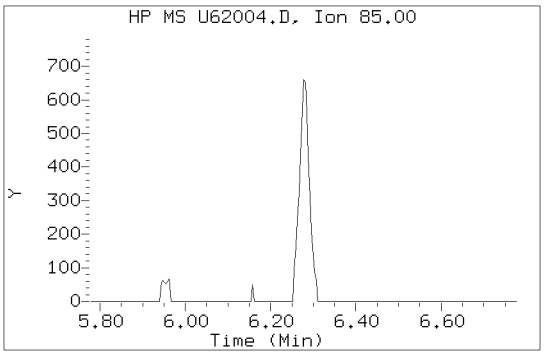
BEFORE

MASS
85
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



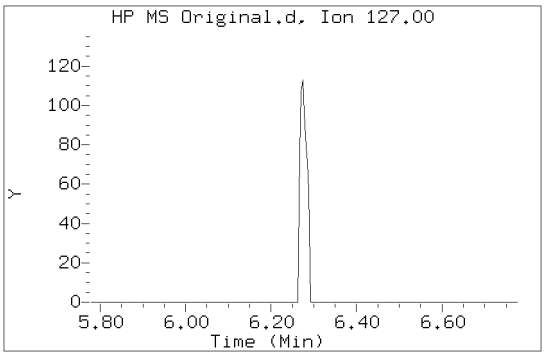
AFTER

MASS
85
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



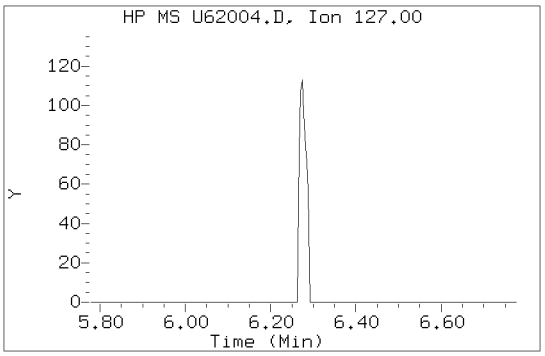
BEFORE

MASS
127
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
127
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid

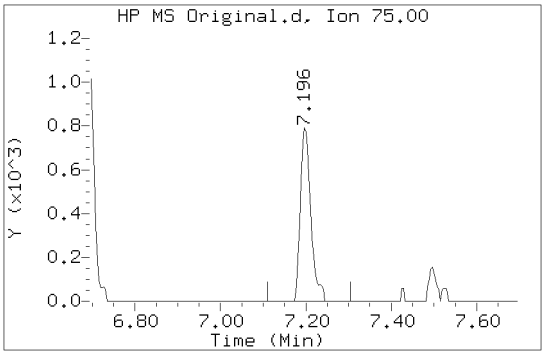


trans-1,3-Dichloropropene (10061-02-6)

Reason Code:

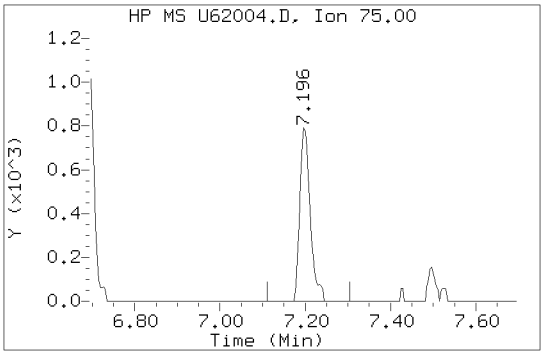
BEFORE

MASS
75
AREA
1381
HEIGHT
791
29-Jun-2024
12:15
s
zaid



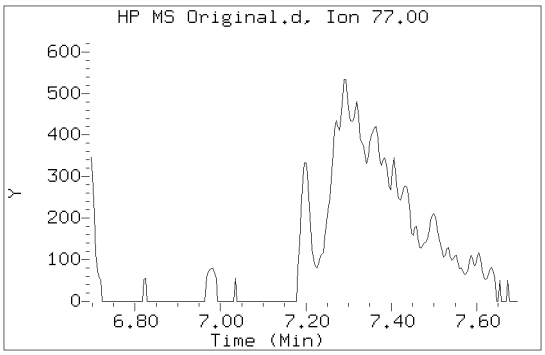
AFTER

MASS
75
AREA
1381
HEIGHT
791
29-Jun-2024
12:15
s
zaid



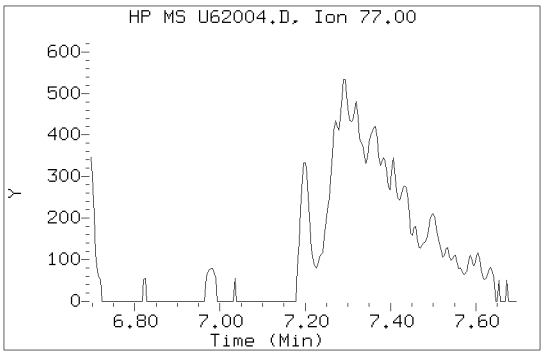
BEFORE

MASS
77
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
77
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



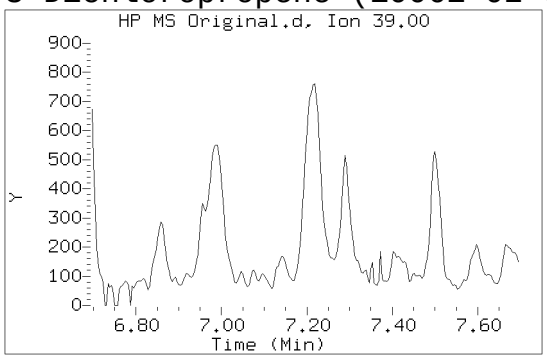
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62004.D
Inj Date : 20-JUN-2024 12:06
InstruID : VOA9.i
LabSampID : VSTD001

trans-1,3-Dichloropropene (10061-02-6)

Reason Code:

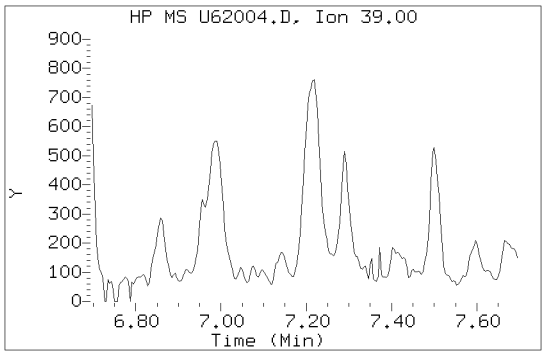
BEFORE

MASS
39
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
39
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid

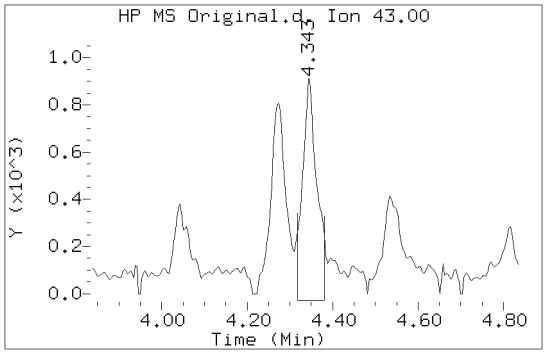


Vinyl Acetate (108-05-4)

Reason Code:

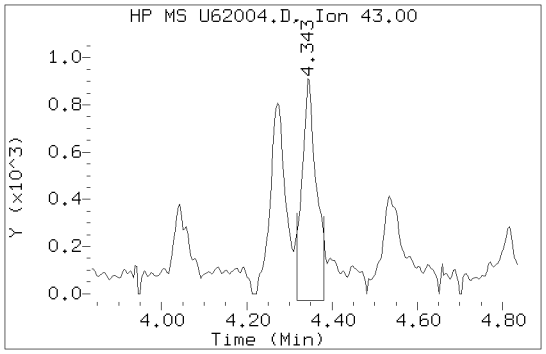
BEFORE

MASS
43
AREA
2234
HEIGHT
939
29-Jun-2024
12:15
s
zaid



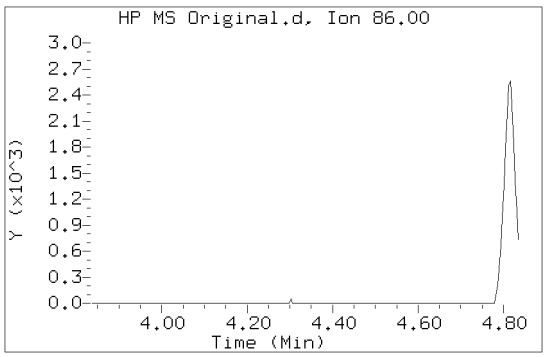
AFTER

MASS
43
AREA
2234
HEIGHT
939
29-Jun-2024
12:15
s
zaid



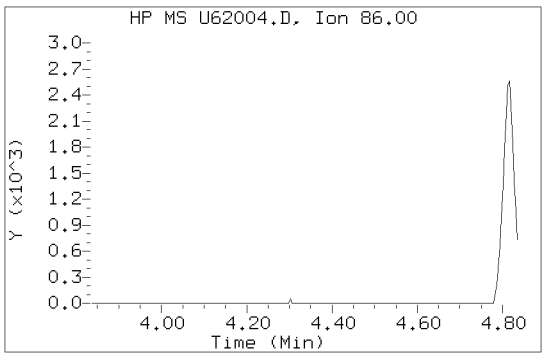
BEFORE

MASS
86
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
86
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid

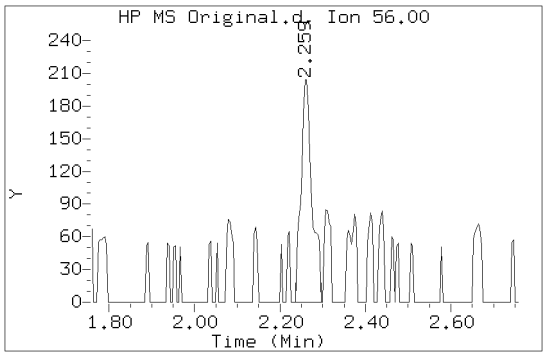


Acrolein (107-02-8)

Reason Code:

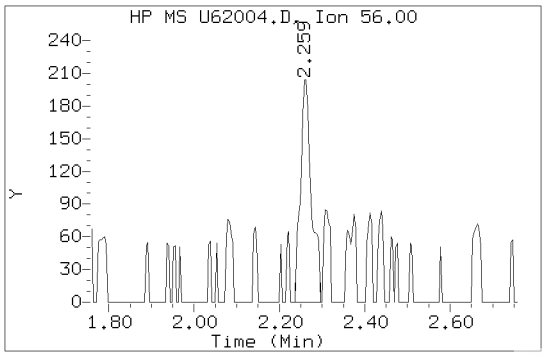
BEFORE

MASS
56
AREA
371
HEIGHT
204
29-Jun-2024
12:15
s
zaid



AFTER

MASS
56
AREA
371
HEIGHT
204
29-Jun-2024
12:15
s
zaid



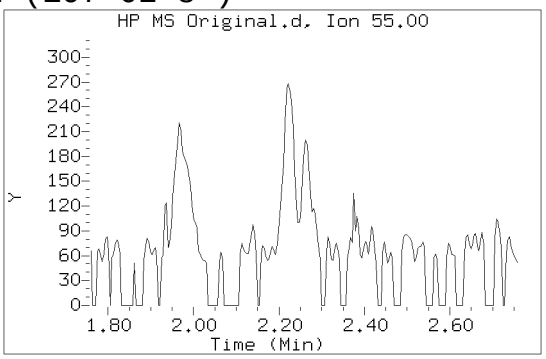
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62004.D
Inj Date : 20-JUN-2024 12:06
InstruID : VOA9.i
LabSampID : VSTD001

Acrolein (107-02-8)

Reason Code:

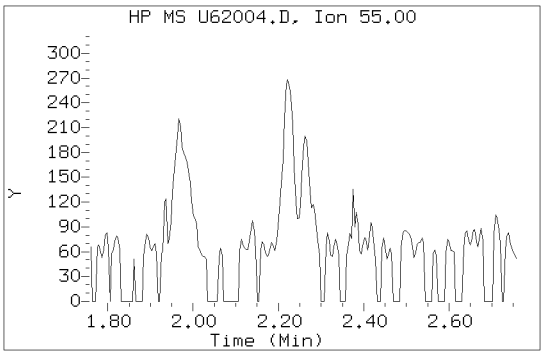
BEFORE

MASS
55
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
55
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid

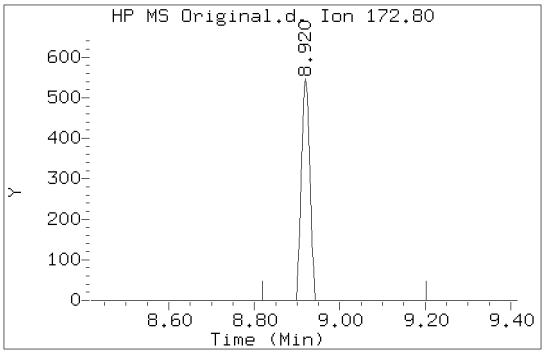


Bromoform (75-25-2)

Reason Code:

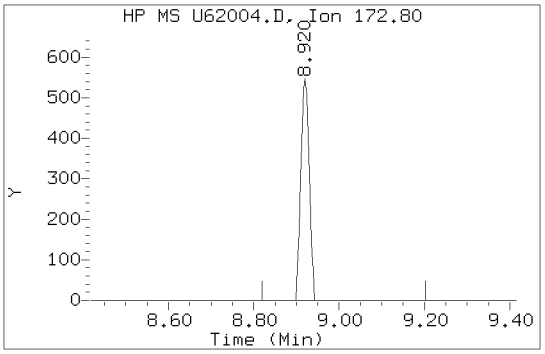
BEFORE

MASS
172.8
AREA
774
HEIGHT
547
29-Jun-2024
12:15
s
zaid



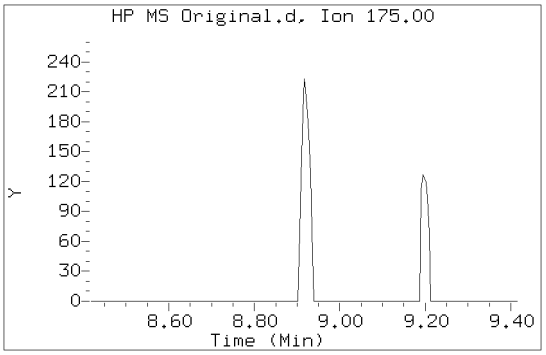
AFTER

MASS
172.8
AREA
774
HEIGHT
547
29-Jun-2024
12:15
s
zaid



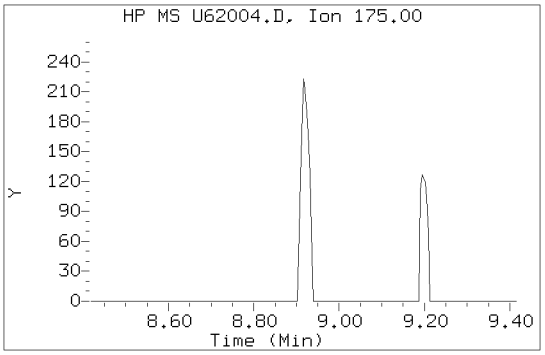
BEFORE

MASS
175
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



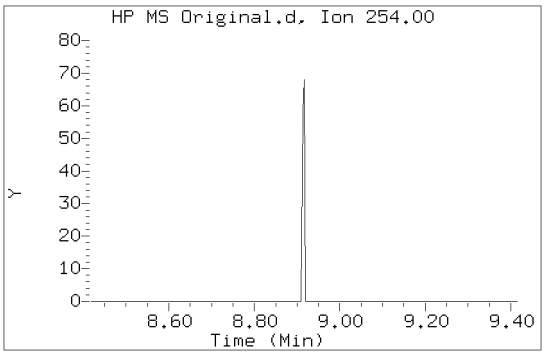
AFTER

MASS
175
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



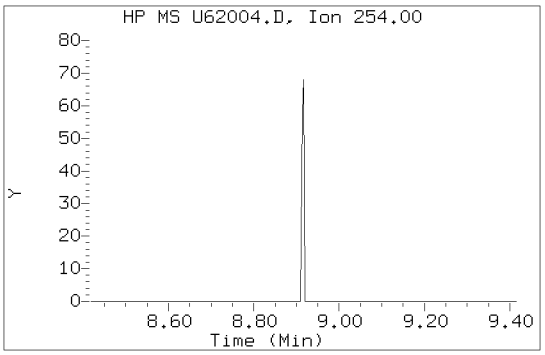
BEFORE

MASS
254
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
254
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid

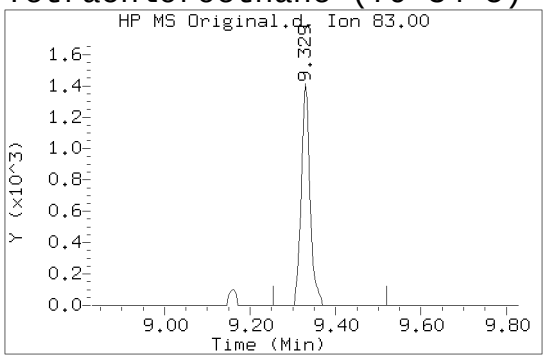


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62004.D
Inj Date : 20-JUN-2024 12:06
InstruID : VOA9.i
LabSampID : VSTD001

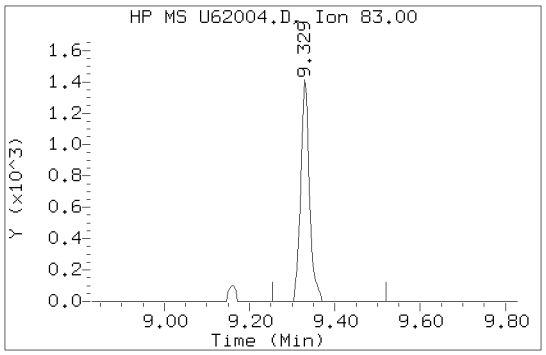
1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

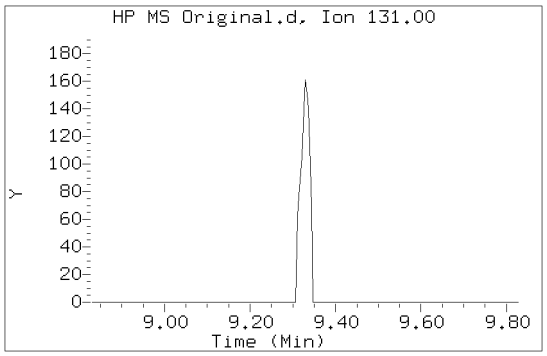
BEFORE
MASS
83
AREA
2063
HEIGHT
1414
29-Jun-2024
12:15
s
zaid



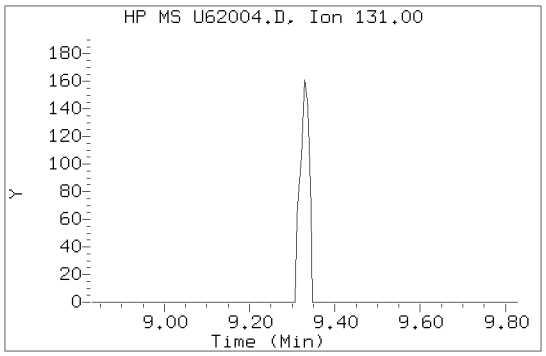
AFTER
MASS
83
AREA
2063
HEIGHT
1414
29-Jun-2024
12:15
s
zaid



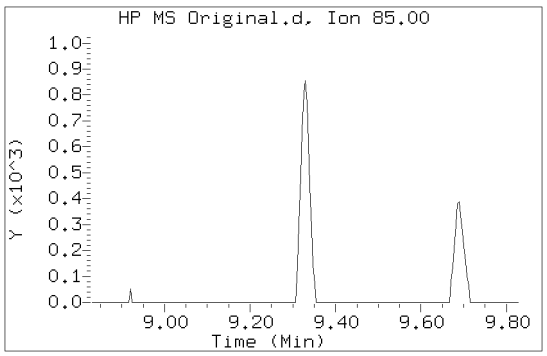
BEFORE
MASS
131
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



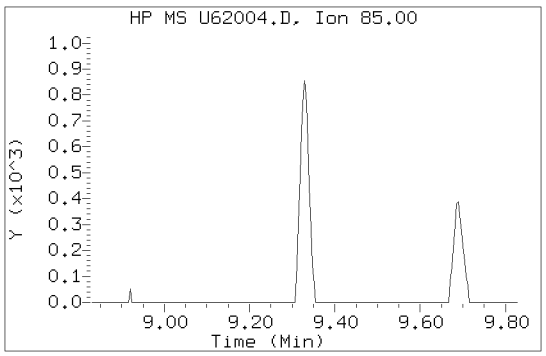
AFTER
MASS
131
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



BEFORE
MASS
85
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



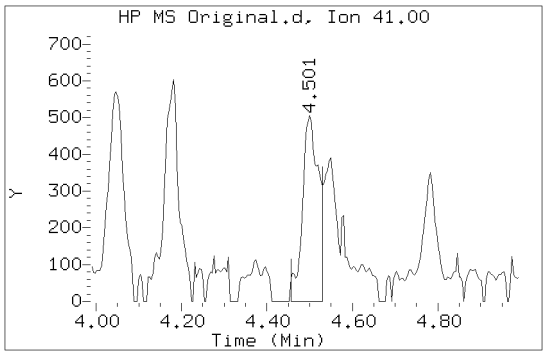
AFTER
MASS
85
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



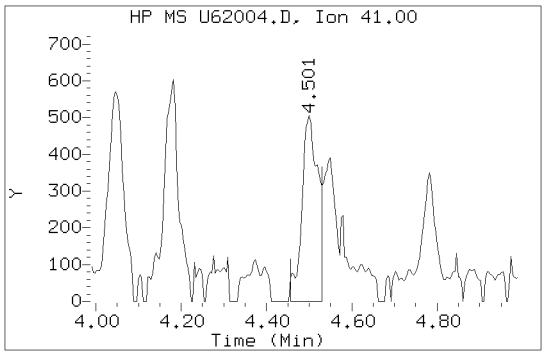
Methacrylonitrile (126-98-7)

Reason Code:

BEFORE
MASS
41
AREA
1366
HEIGHT
505
29-Jun-2024
12:15
s
zaid



AFTER
MASS
41
AREA
1366
HEIGHT
505
29-Jun-2024
12:15
s
zaid

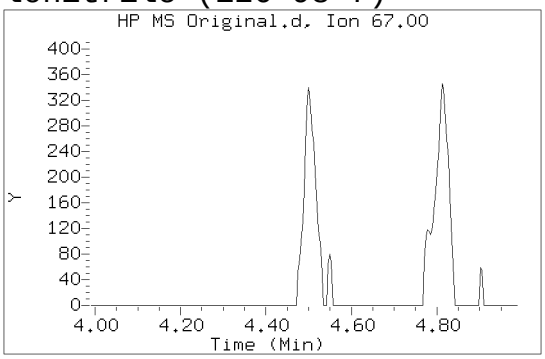


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62004.D
Inj Date : 20-JUN-2024 12:06
InstruID : VOA9.i
LabSampID : VSTD001

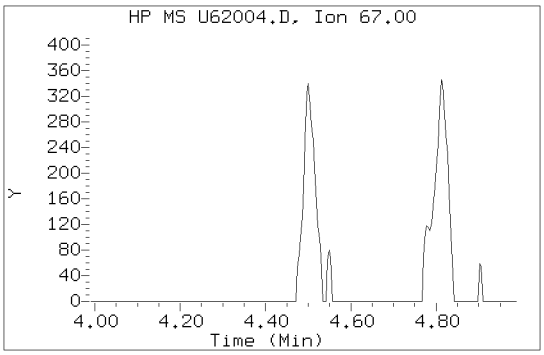
Methacrylonitrile (126-98-7)

Reason Code:

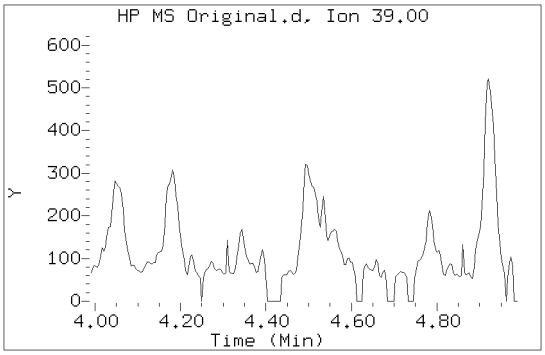
BEFORE
MASS
67
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



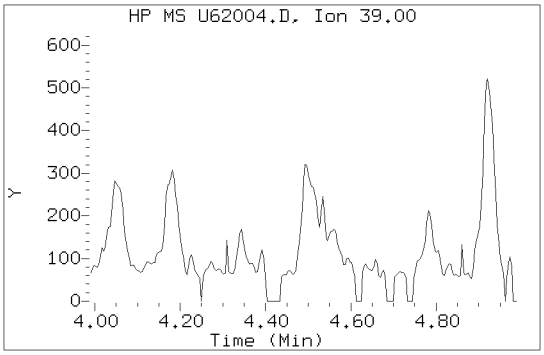
AFTER
MASS
67
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



BEFORE
MASS
39
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



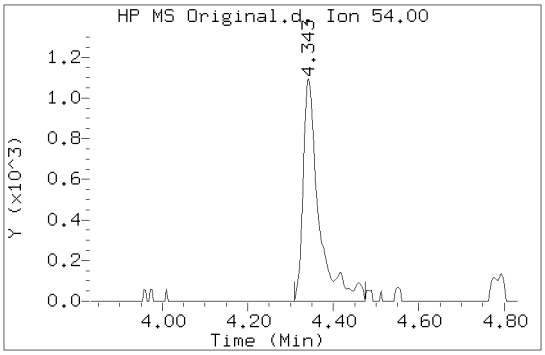
AFTER
MASS
39
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



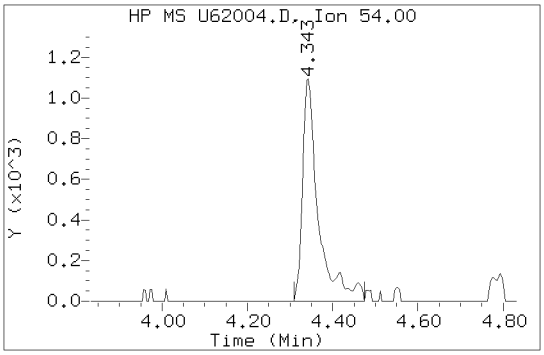
Propionitrile (107-12-0)

Reason Code:

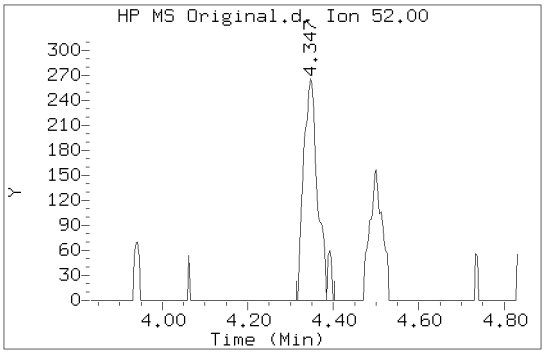
BEFORE
MASS
54
AREA
2871
HEIGHT
1094
29-Jun-2024
12:15
s
zaid



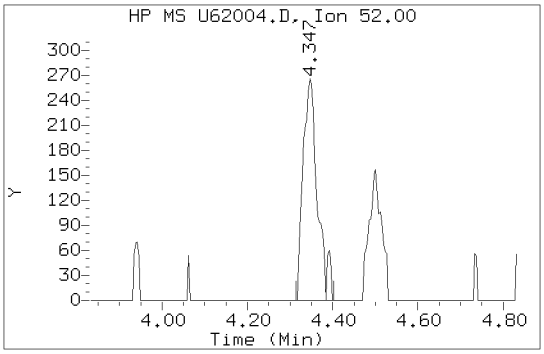
AFTER
MASS
54
AREA
2871
HEIGHT
1094
29-Jun-2024
12:15
s
zaid



BEFORE
MASS
52
AREA
637
HEIGHT
266
29-Jun-2024
12:15
s
zaid



AFTER
MASS
52
AREA
637
HEIGHT
266
29-Jun-2024
12:15
s
zaid



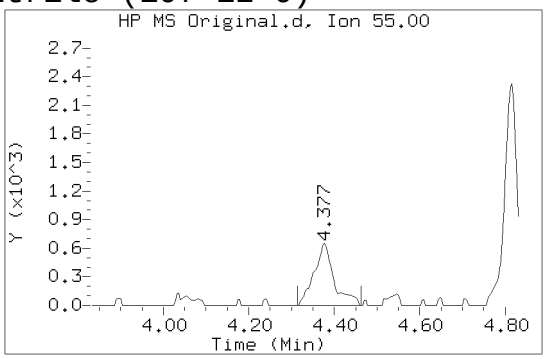
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62004.D
Inj Date : 20-JUN-2024 12:06
InstruID : VOA9.i
LabSampID : VSTD001

Propionitrile (107-12-0)

Reason Code:

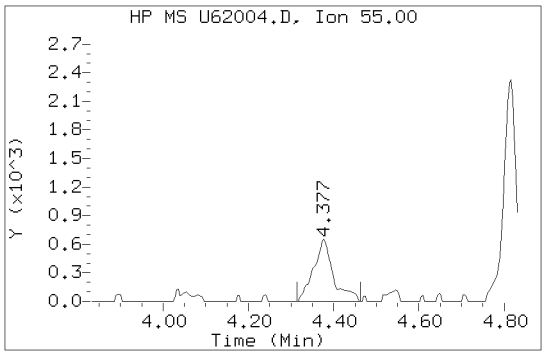
BEFORE

MASS
55
AREA
2106
HEIGHT
650
29-Jun-2024
12:15
s
zaid



AFTER

MASS
55
AREA
2106
HEIGHT
650
29-Jun-2024
12:15
s
zaid

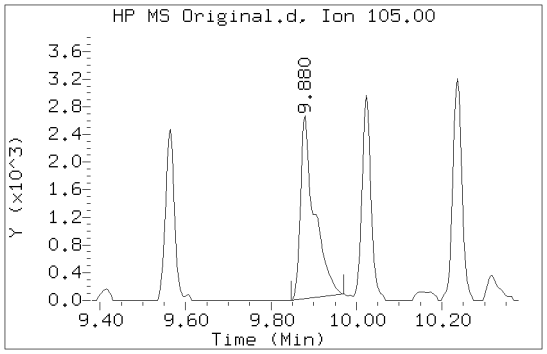


1,2,4-Trimethylbenzene (95-63-6)

Reason Code:

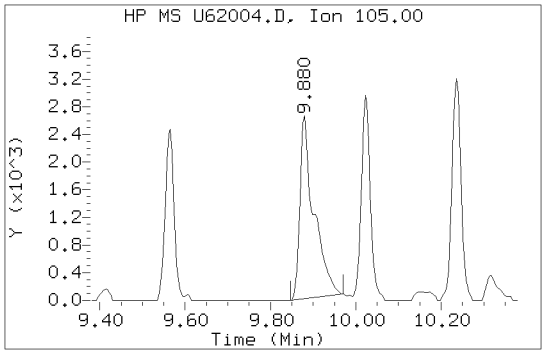
BEFORE

MASS
105
AREA
6112
HEIGHT
2642
29-Jun-2024
12:15
s
zaid



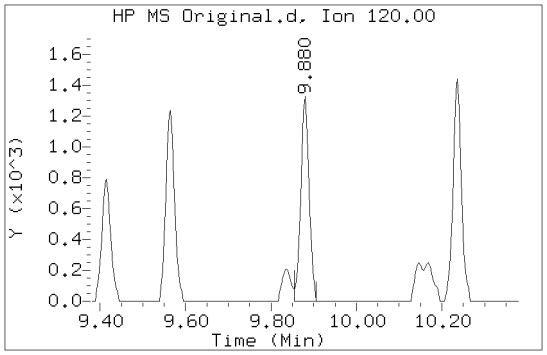
AFTER

MASS
105
AREA
6112
HEIGHT
2642
29-Jun-2024
12:15
s
zaid



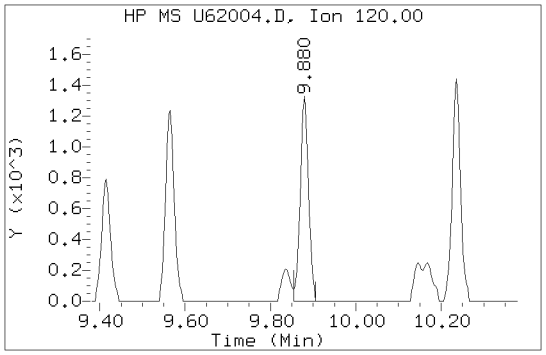
BEFORE

MASS
120
AREA
1844
HEIGHT
1329
29-Jun-2024
12:15
s
zaid



AFTER

MASS
120
AREA
1844
HEIGHT
1329
29-Jun-2024
12:15
s
zaid

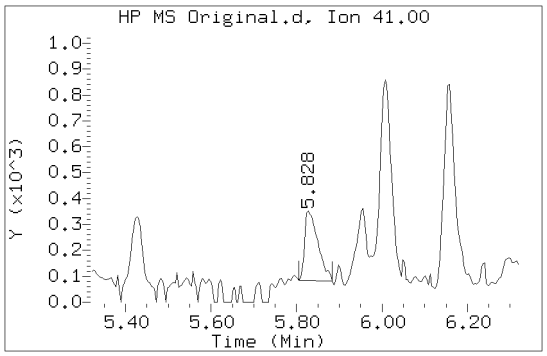


Methyl Methacrylate (80-62-6)

Reason Code:

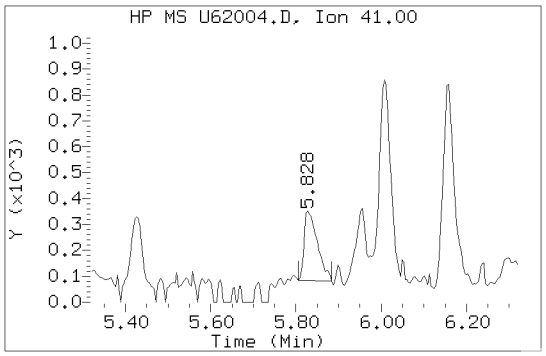
BEFORE

MASS
41
AREA
587
HEIGHT
268
29-Jun-2024
12:15
s
zaid



AFTER

MASS
41
AREA
587
HEIGHT
268
29-Jun-2024
12:15
s
zaid

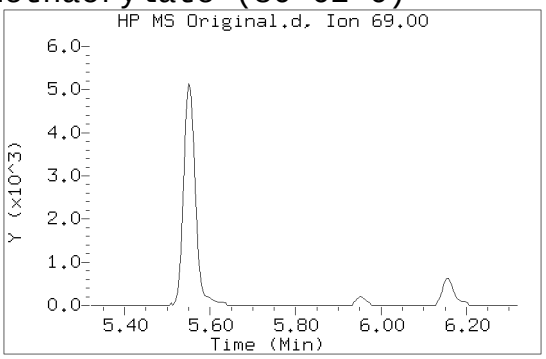


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62004.D
Inj Date : 20-JUN-2024 12:06
InstruID : VOA9.i
LabSampID : VSTD001

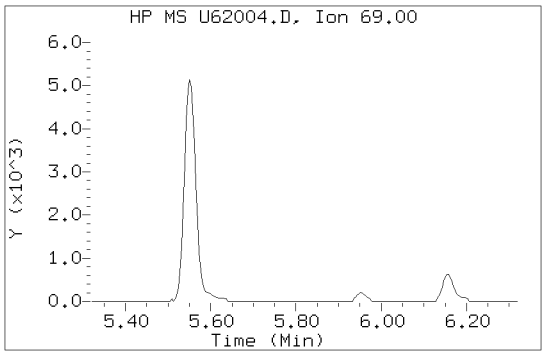
Methyl Methacrylate (80-62-6)

Reason Code:

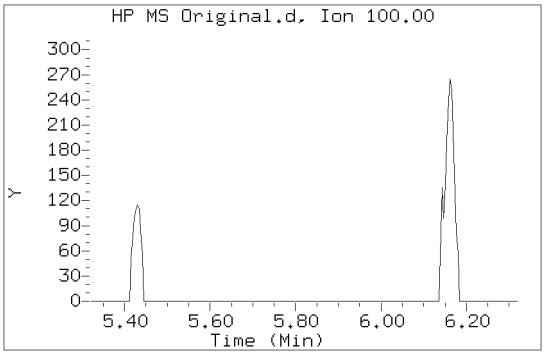
BEFORE
MASS
69
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



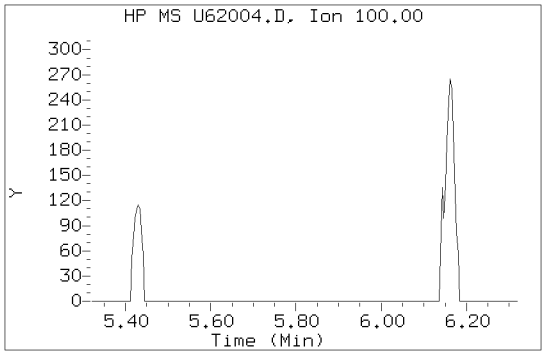
AFTER
MASS
69
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



BEFORE
MASS
100
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



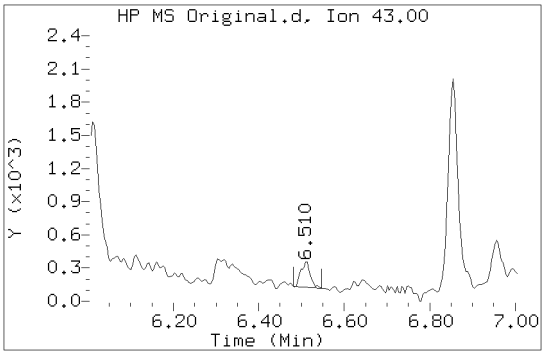
AFTER
MASS
100
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



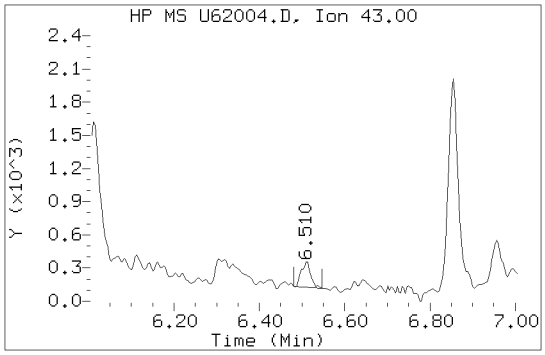
2-Nitropropane (79-46-9)

Reason Code:

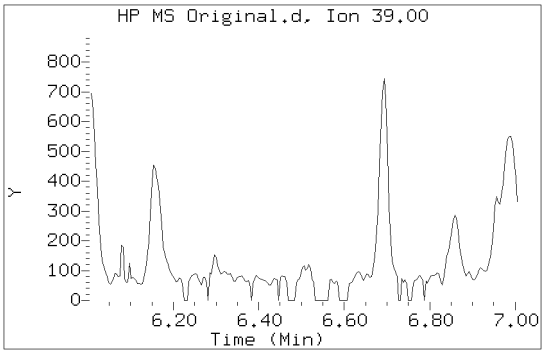
BEFORE
MASS
43
AREA
357
HEIGHT
231
29-Jun-2024
12:15
s
zaid



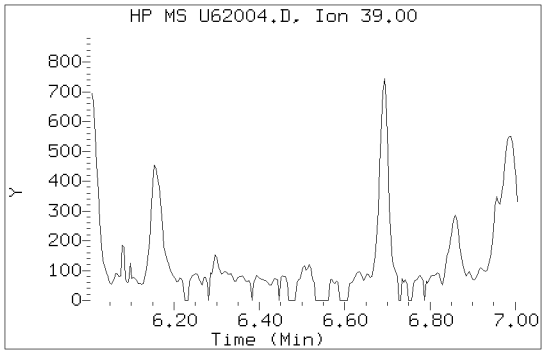
AFTER
MASS
43
AREA
357
HEIGHT
231
29-Jun-2024
12:15
s
zaid



BEFORE
MASS
39
AREA
1379
HEIGHT
471
29-Jun-2024
12:15
s
zaid



AFTER
MASS
39
AREA
1379
HEIGHT
471
29-Jun-2024
12:15
s
zaid



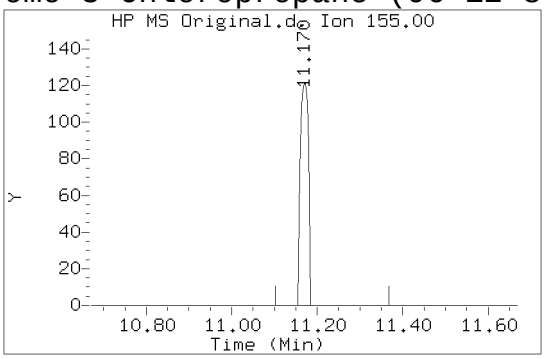
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62004.D
Inj Date : 20-JUN-2024 12:06
InstruID : VOA9.i
LabSampID : VSTD001

1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

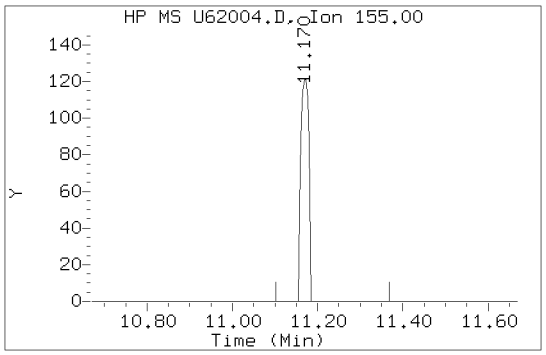
BEFORE

MASS
155
AREA
163
HEIGHT
121
29-Jun-2024
12:15
s
zaid



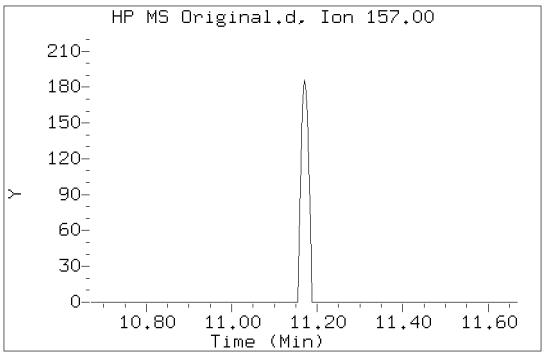
AFTER

MASS
155
AREA
163
HEIGHT
121
29-Jun-2024
12:15
s
zaid



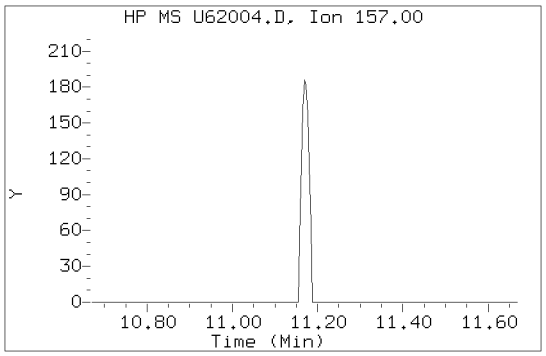
BEFORE

MASS
157
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



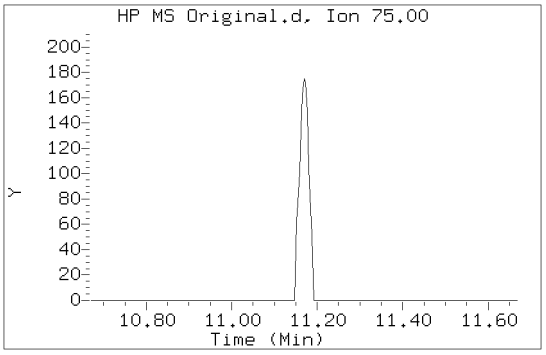
AFTER

MASS
157
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



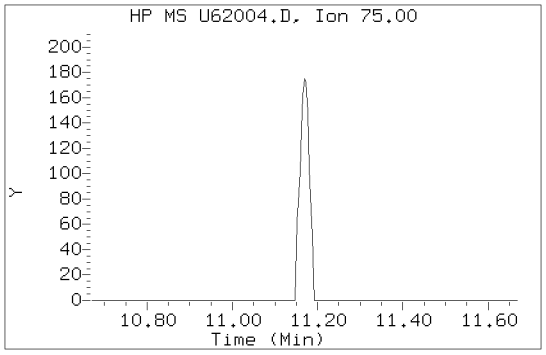
BEFORE

MASS
75
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
75
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid

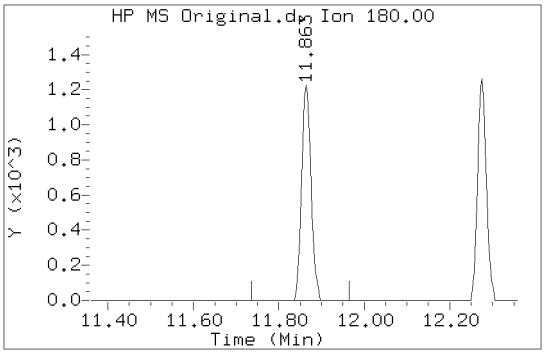


1,2,4-Trichlorobenzene (120-82-1)

Reason Code:

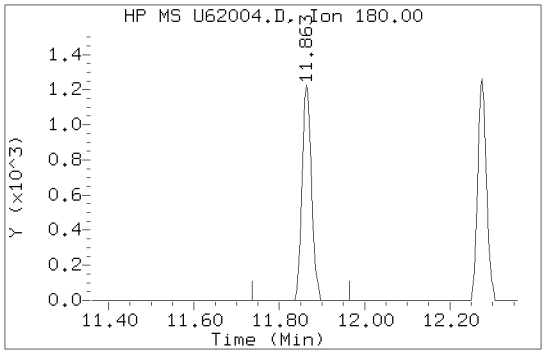
BEFORE

MASS
180
AREA
1929
HEIGHT
1227
29-Jun-2024
12:15
s
zaid



AFTER

MASS
180
AREA
1929
HEIGHT
1227
29-Jun-2024
12:15
s
zaid



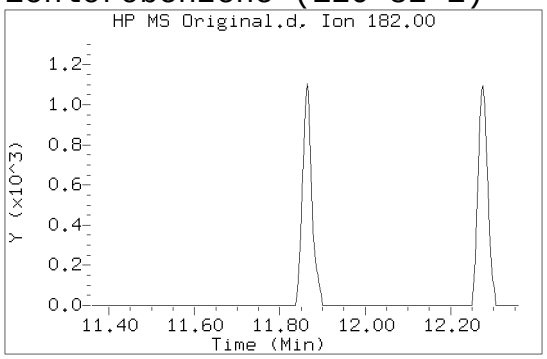
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62004.D
Inj Date : 20-JUN-2024 12:06
InstruID : VOA9.i
LabSampID : VSTD001

1,2,4-Trichlorobenzene (120-82-1)

Reason Code:

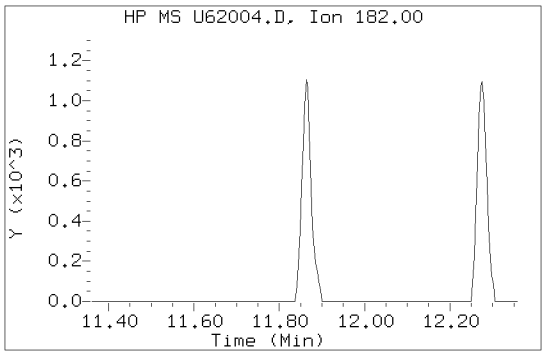
BEFORE

MASS
182
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



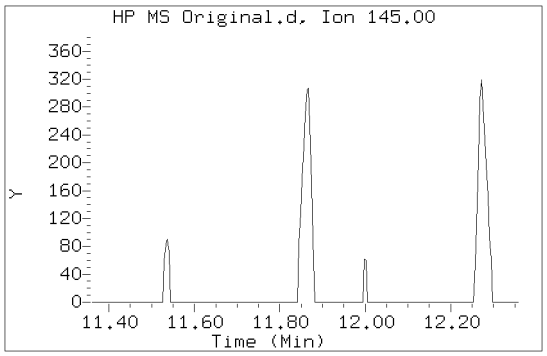
AFTER

MASS
182
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



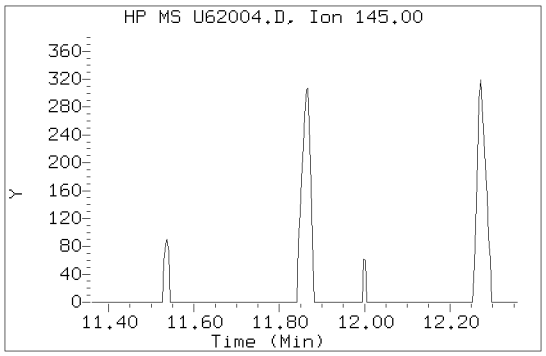
BEFORE

MASS
145
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
145
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid

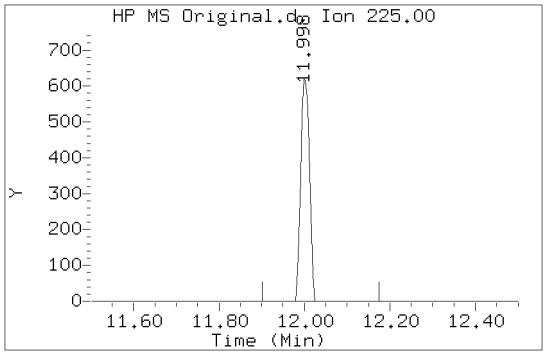


Hexachlorobutadiene (87-68-3)

Reason Code:

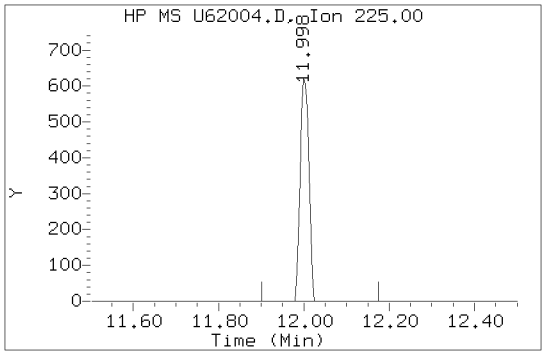
BEFORE

MASS
225
AREA
909
HEIGHT
620
29-Jun-2024
12:15
s
zaid



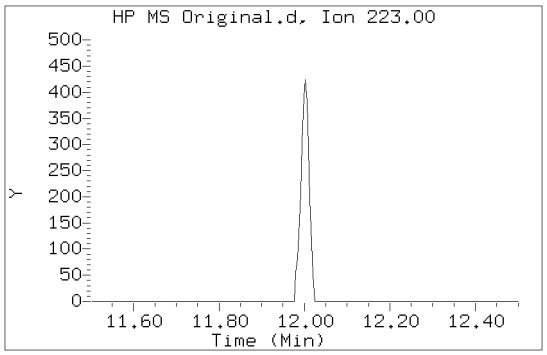
AFTER

MASS
225
AREA
909
HEIGHT
620
29-Jun-2024
12:15
s
zaid



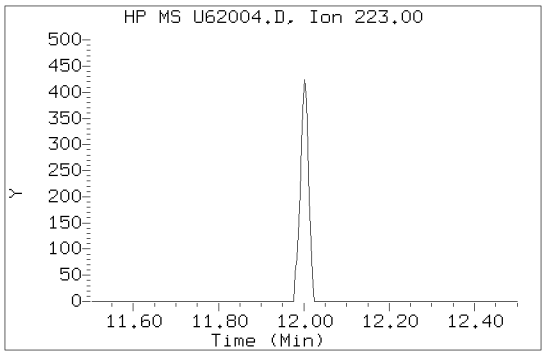
BEFORE

MASS
223
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
223
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



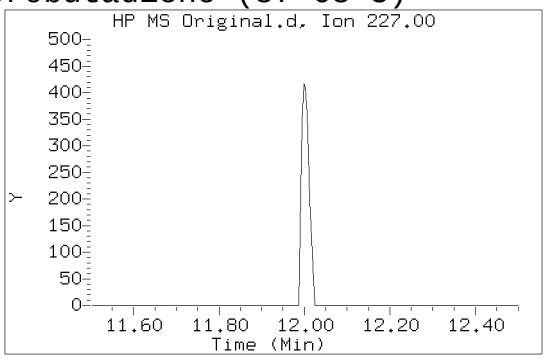
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62004.D
Inj Date : 20-JUN-2024 12:06
InstruID : VOA9.i
LabSampID : VSTD001

Hexachlorobutadiene (87-68-3)

Reason Code:

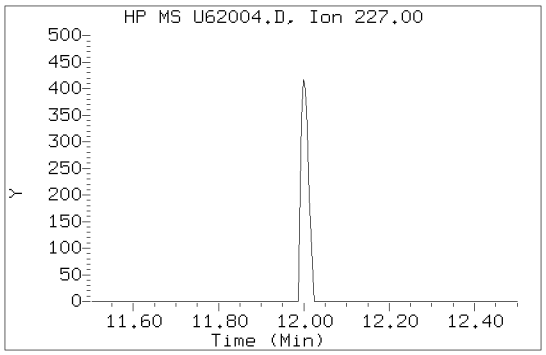
BEFORE

MASS
227
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
227
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid

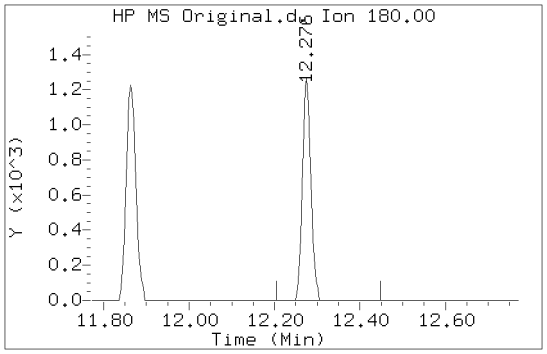


1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

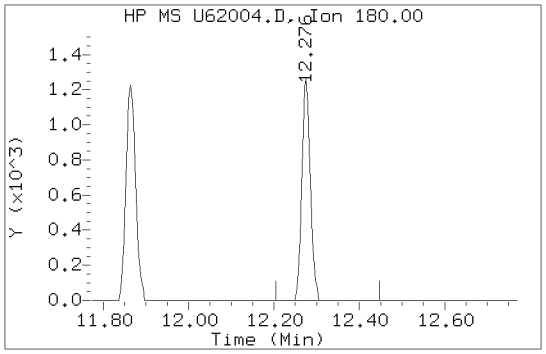
BEFORE

MASS
180
AREA
1793
HEIGHT
1263
29-Jun-2024
12:15
s
zaid



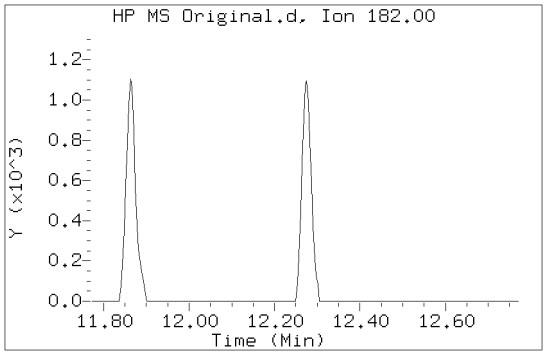
AFTER

MASS
180
AREA
1793
HEIGHT
1263
29-Jun-2024
12:15
s
zaid



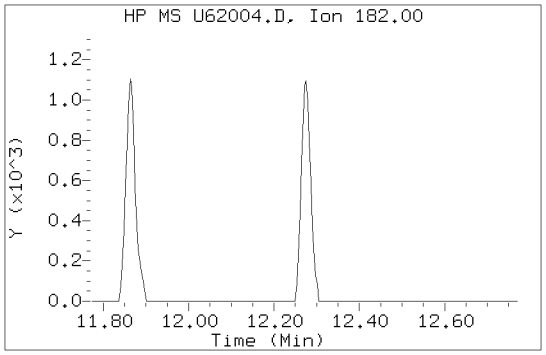
BEFORE

MASS
182
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



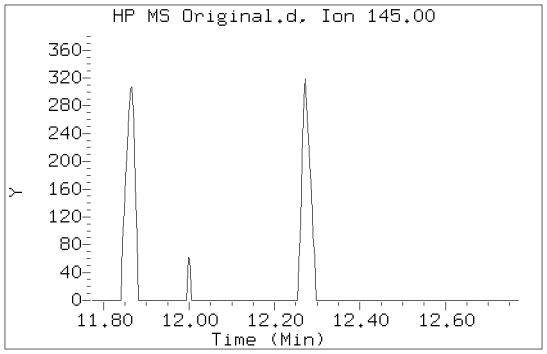
AFTER

MASS
182
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



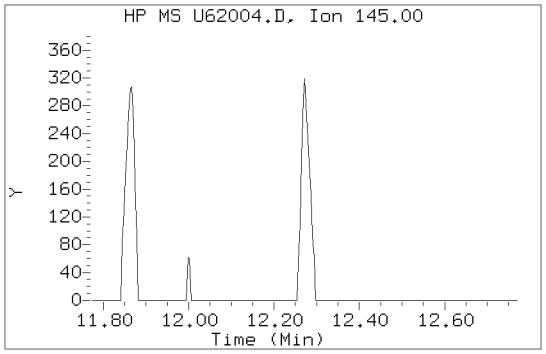
BEFORE

MASS
145
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
145
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



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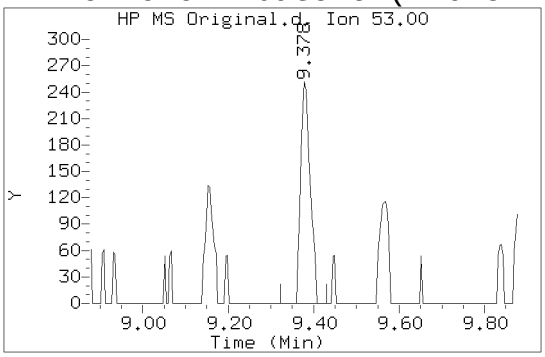
Inj Date : 20-JUN-2024 12:06
InstruID : VOA9.i
LabSampID : VSTD001

trans-1,4-Dichloro-2-butene (110-57-6)

BEFORE

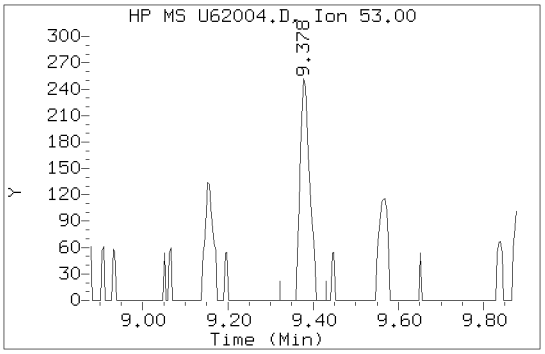
MASS
53
AREA
399
HEIGHT
252
29-Jun-2024
12:15
s
zaid



Reason Code:

AFTER

MASS
53
AREA
399
HEIGHT
252
29-Jun-2024
12:15
s
zaid



BEFORE

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75
AREA
0
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0
29-Jun-2024
12:15
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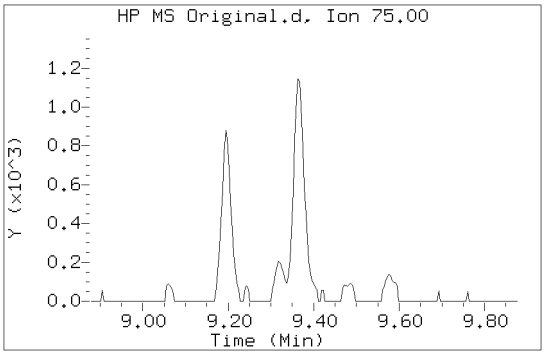
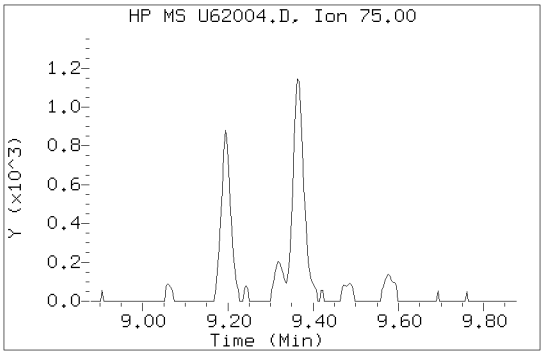
zaid



AFTER

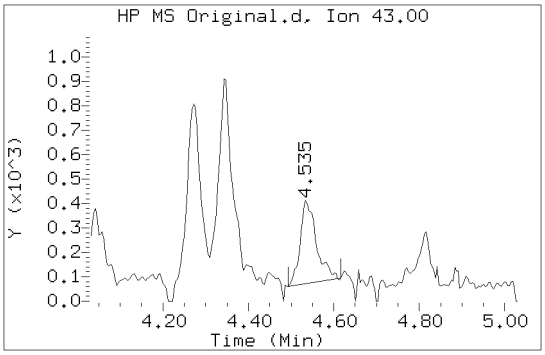
MASS
75
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



Ethyl Acetate (141-78-6)

BEFORE

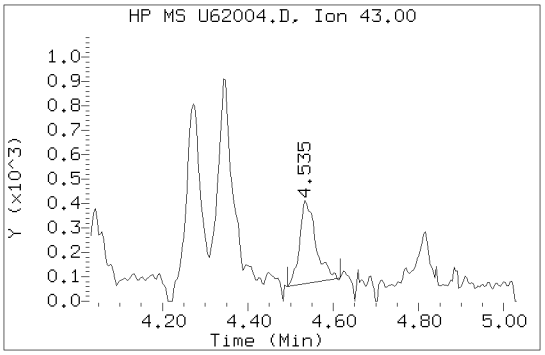
MASS
43
AREA
903
HEIGHT
341
29-Jun-2024
12:15
s
zaid



Reason Code:

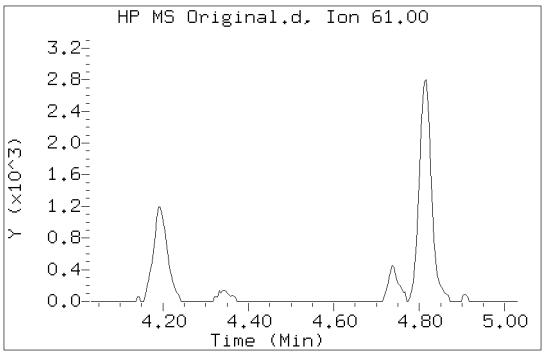
AFTER

MASS
43
AREA
903
HEIGHT
341
29-Jun-2024
12:15
s
zaid



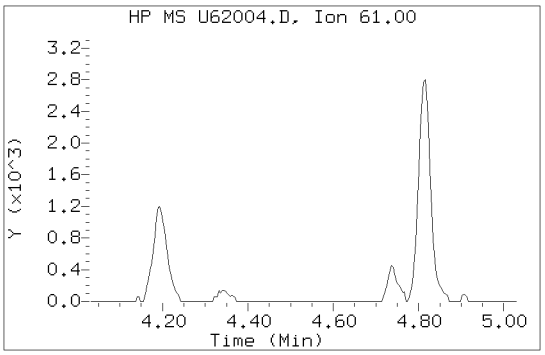
BEFORE

MASS
61
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
61
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



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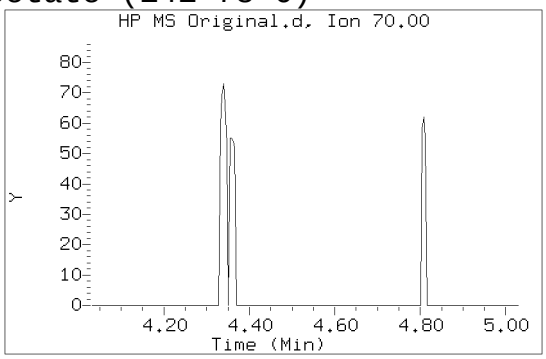
Inj Date : 20-JUN-2024 12:06
InstruID : VOA9.i
LabSampID : VSTD001

Ethyl Acetate (141-78-6)

Reason Code:

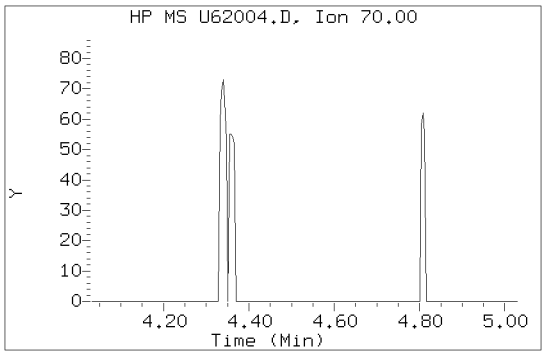
BEFORE

MASS
70
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
70
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid

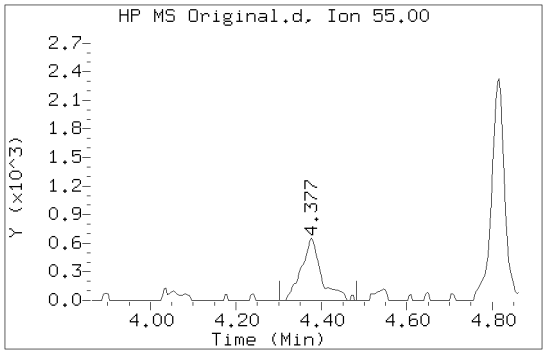


Methyl Acrylate (96-33-3)

Reason Code:

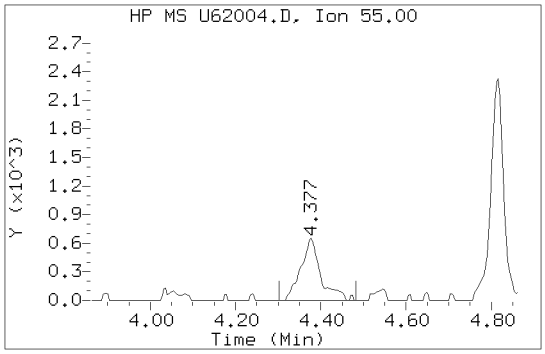
BEFORE

MASS
55
AREA
2131
HEIGHT
650
29-Jun-2024
12:15
s
zaid



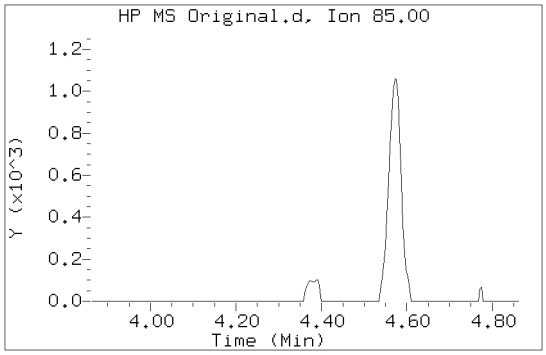
AFTER

MASS
55
AREA
2131
HEIGHT
650
29-Jun-2024
12:15
s
zaid



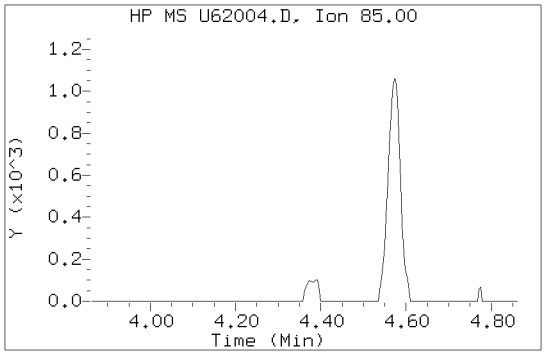
BEFORE

MASS
85
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
85
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid

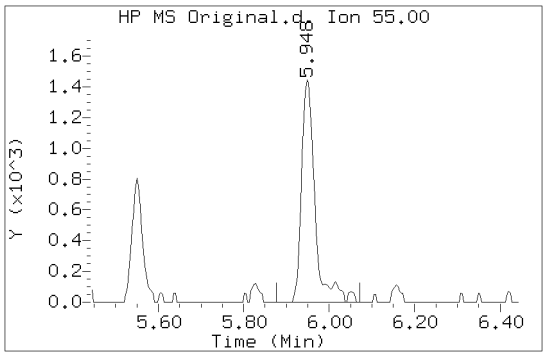


Ethyl Acrylate (140-88-5)

Reason Code:

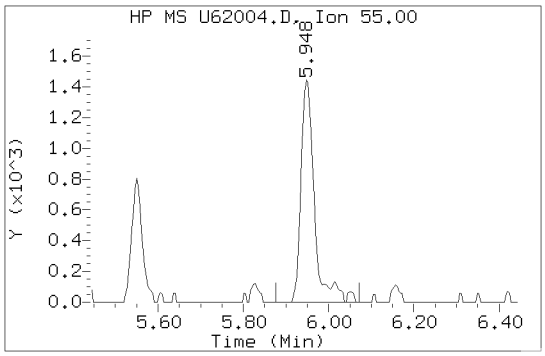
BEFORE

MASS
55
AREA
3253
HEIGHT
1445
29-Jun-2024
12:15
s
zaid



AFTER

MASS
55
AREA
3253
HEIGHT
1445
29-Jun-2024
12:15
s
zaid



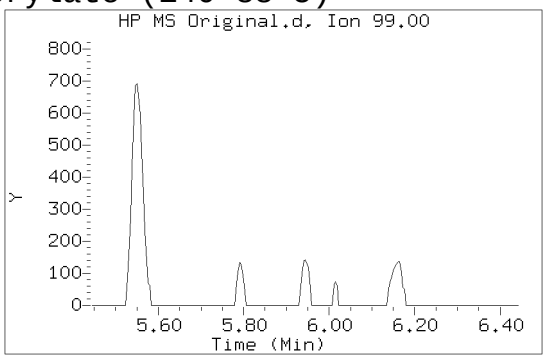
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62004.D
Inj Date : 20-JUN-2024 12:06
InstruID : VOA9.i
LabSampID : VSTD001

Ethyl Acrylate (140-88-5)

Reason Code:

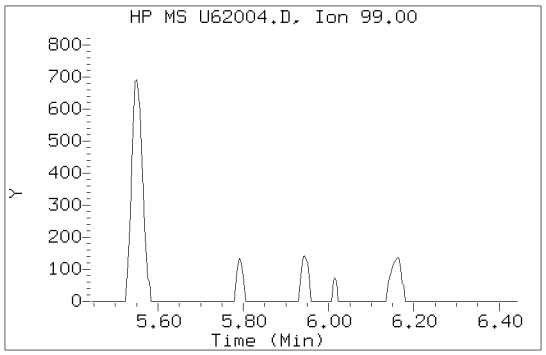
BEFORE

MASS
99
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
99
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid

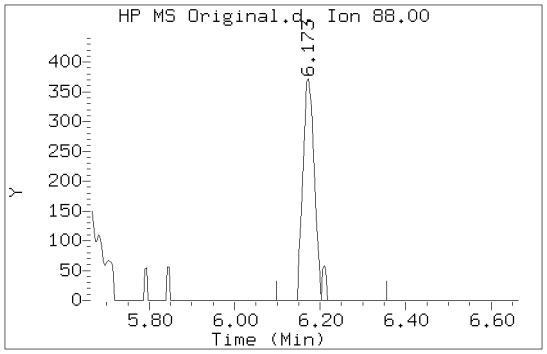


1,4-Dioxane ()

Reason Code:

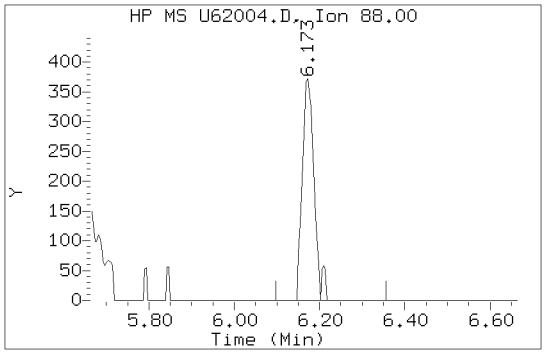
BEFORE

MASS
88
AREA
731
HEIGHT
372
29-Jun-2024
12:15
s
zaid



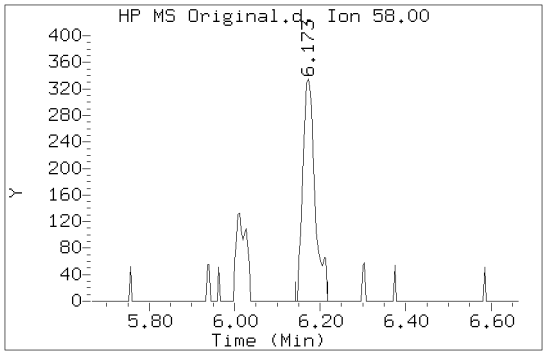
AFTER

MASS
88
AREA
731
HEIGHT
372
29-Jun-2024
12:15
s
zaid



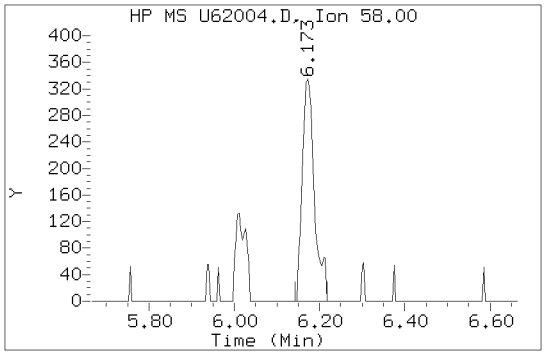
BEFORE

MASS
58
AREA
671
HEIGHT
335
29-Jun-2024
12:15
s
zaid



AFTER

MASS
58
AREA
671
HEIGHT
335
29-Jun-2024
12:15
s
zaid

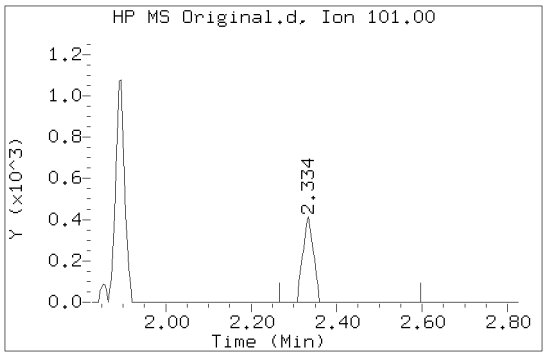


Freon TF (76-13-1)

Reason Code:

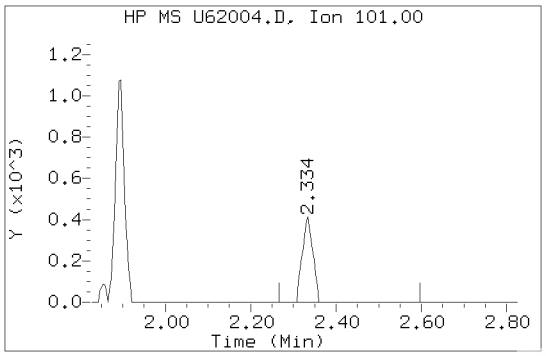
BEFORE

MASS
101
AREA
725
HEIGHT
414
29-Jun-2024
12:15
s
zaid



AFTER

MASS
101
AREA
725
HEIGHT
414
29-Jun-2024
12:15
s
zaid



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Inj Date : 20-JUN-2024 12:06
InstruID : VOA9.i
LabSampID : VSTD001

Freon TF (76-13-1)

Reason Code:

BEFORE

MASS
151
AREA
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HEIGHT
0
29-Jun-2024
12:15
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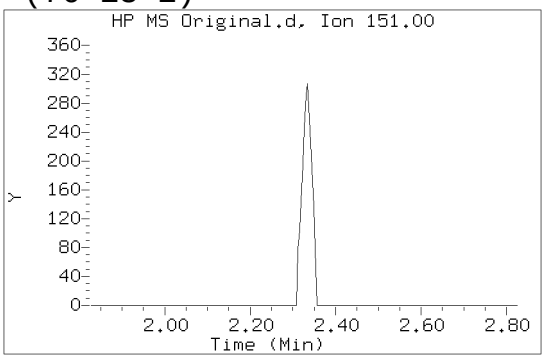
zaid



AFTER

MASS
151
AREA
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HEIGHT
0
29-Jun-2024
12:15
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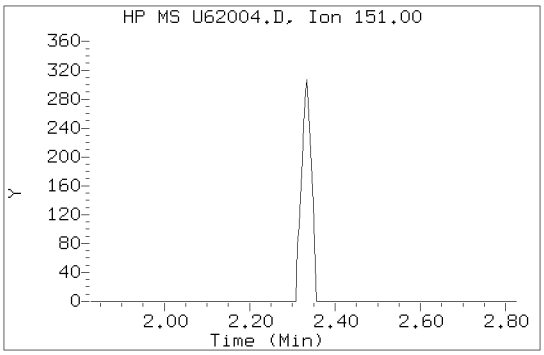
zaid

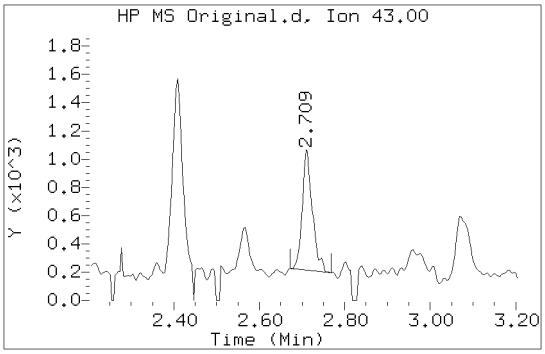


Methyl acetate (79-20-9)

Reason Code:

BEFORE

MASS
43
AREA
1432
HEIGHT
850
29-Jun-2024
12:15
s
zaid



AFTER

MASS
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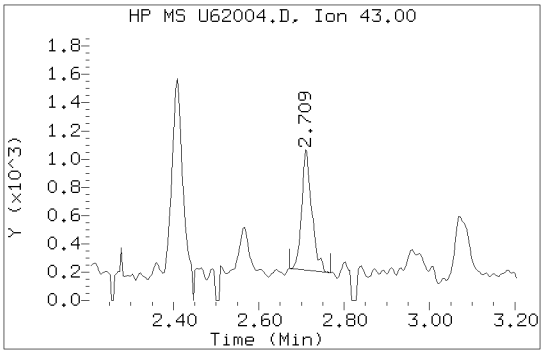
AREA
1432
HEIGHT
850
29-Jun-2024
12:15
s
zaid



BEFORE

MASS
74
AREA
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HEIGHT
0
29-Jun-2024
12:15
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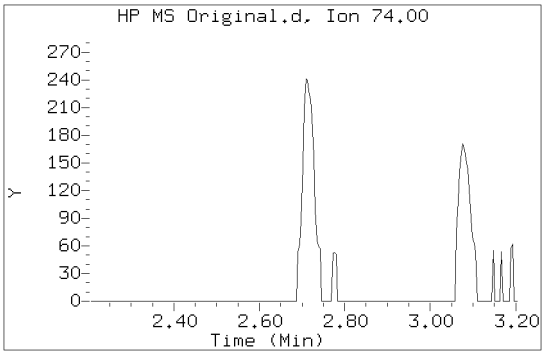
zaid



AFTER

MASS
74
AREA
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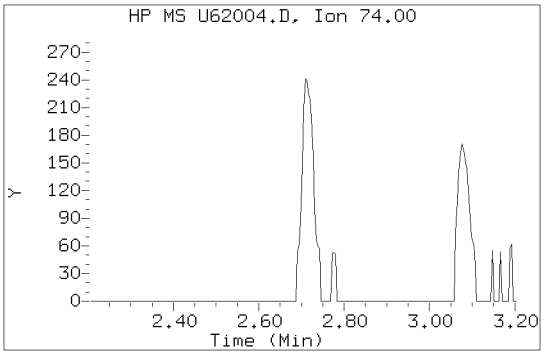
HEIGHT
0
29-Jun-2024
12:15
s
zaid

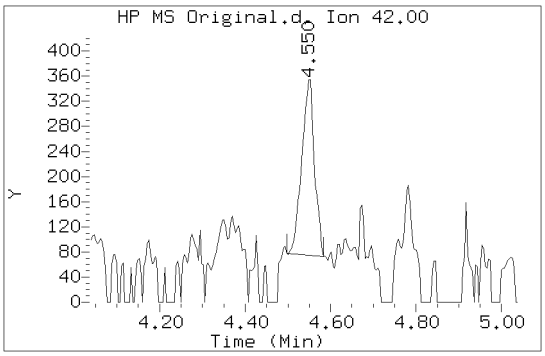


Tetrahydrofuran (109-99-9)

Reason Code:

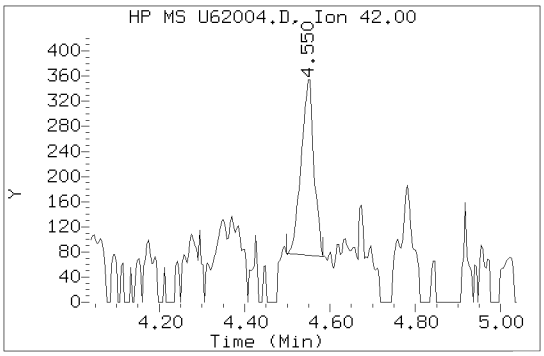
BEFORE

MASS
42
AREA
580
HEIGHT
279
29-Jun-2024
12:15
s
zaid



AFTER

MASS
42
AREA
580
HEIGHT
279
29-Jun-2024
12:15
s
zaid



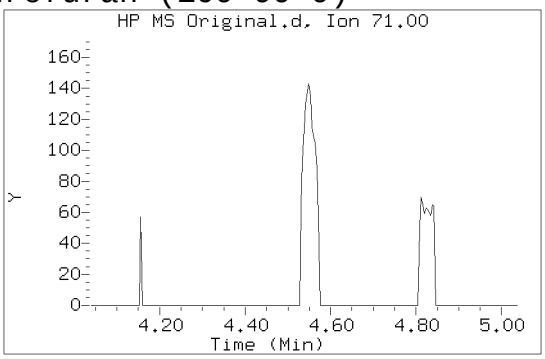
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62004.D
Inj Date : 20-JUN-2024 12:06
InstruID : VOA9.i
LabSampID : VSTD001

Tetrahydrofuran (109-99-9)

Reason Code:

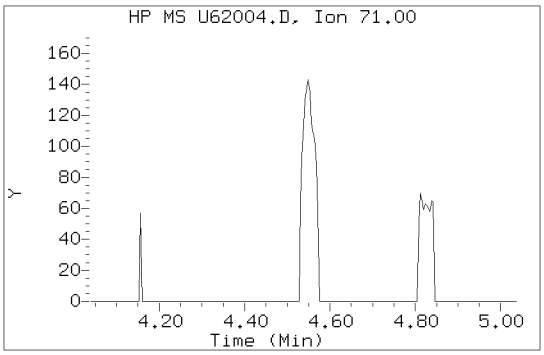
BEFORE

MASS
71
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
71
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid

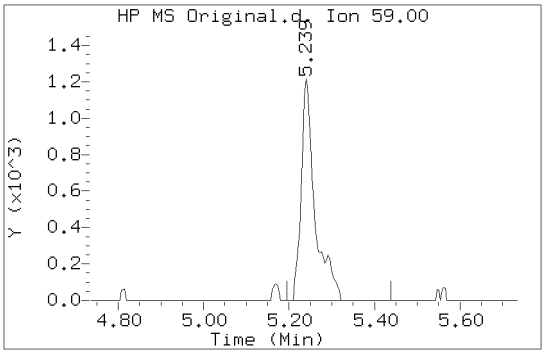


tert-Butyl formate (762-75-4)

Reason Code:

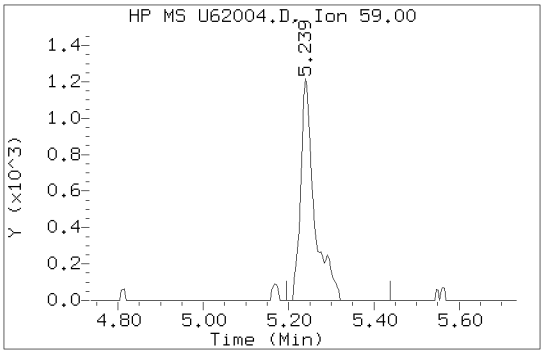
BEFORE

MASS
59
AREA
2782
HEIGHT
1217
29-Jun-2024
12:15
s
zaid



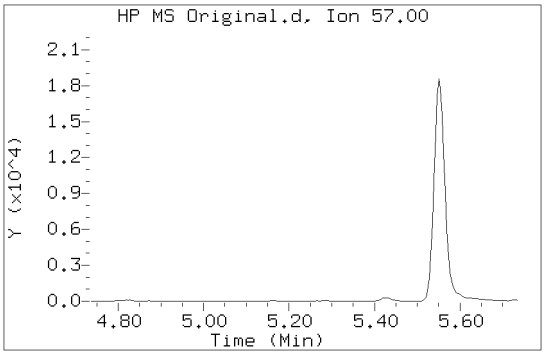
AFTER

MASS
59
AREA
2782
HEIGHT
1217
29-Jun-2024
12:15
s
zaid



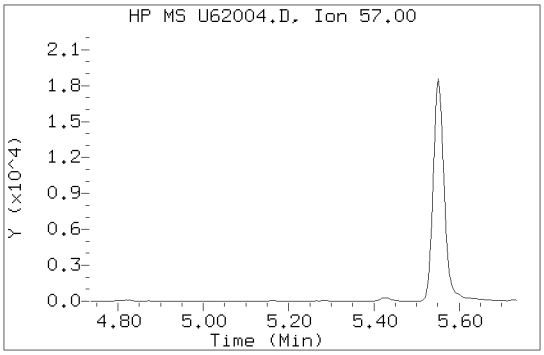
BEFORE

MASS
57
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



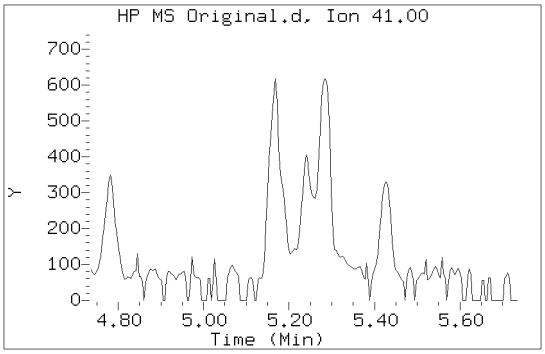
AFTER

MASS
57
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



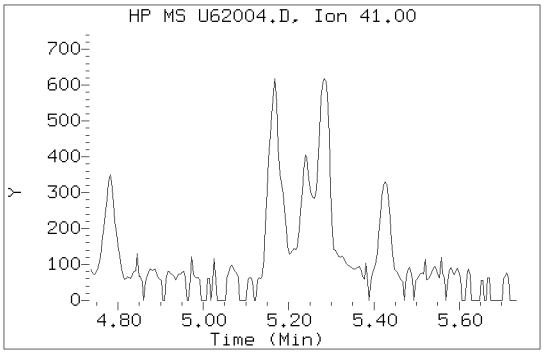
BEFORE

MASS
41
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
41
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



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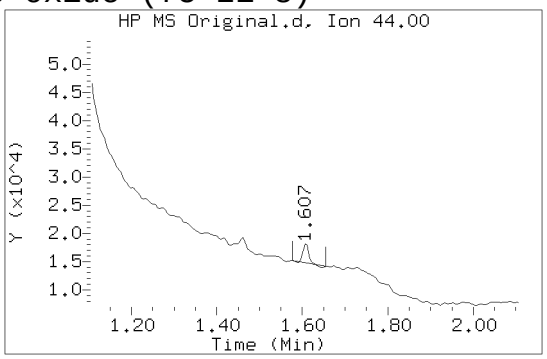
Inj Date : 20-JUN-2024 12:06
InstruID : VOA9.i
LabSampID : VSTD001

Ethylene oxide (75-21-8)

Reason Code:

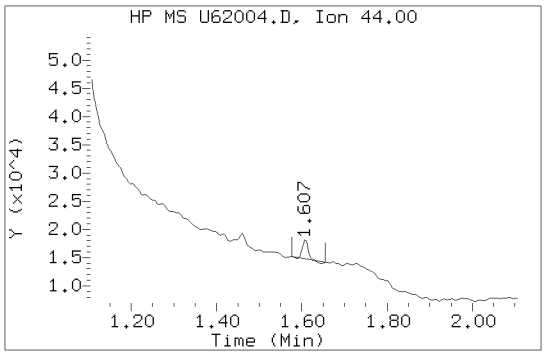
BEFORE

MASS
44
AREA
2844
HEIGHT
3414
29-Jun-2024
12:15
s
zaid



AFTER

MASS
44
AREA
2844
HEIGHT
3414
29-Jun-2024
12:15
s
zaid

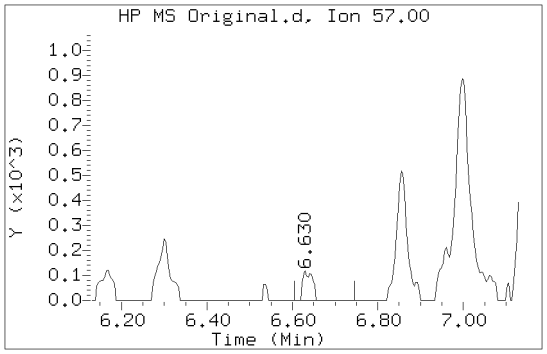


Epichlorohydrin (106-89-8)

Reason Code:

BEFORE

MASS
57
AREA
188
HEIGHT
117
29-Jun-2024
12:15
s
zaid



AFTER

MASS
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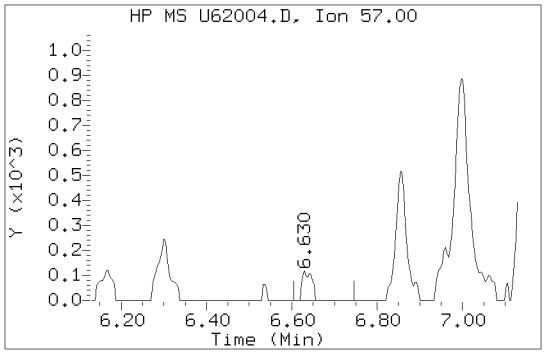
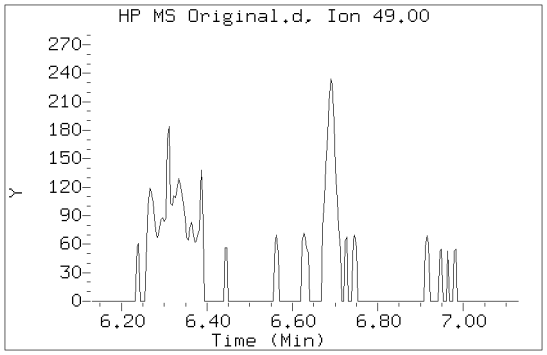
AREA
188
HEIGHT
117
29-Jun-2024
12:15
s
zaid



BEFORE

MASS
49
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
49
AREA
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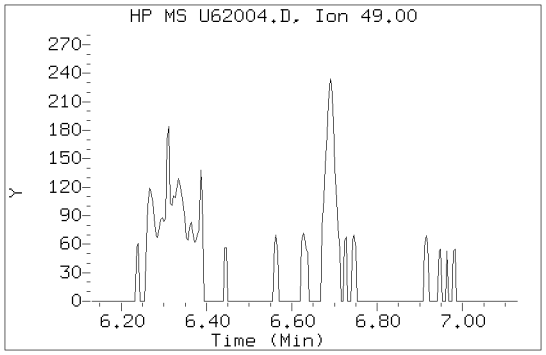
HEIGHT
0
29-Jun-2024
12:15
s
zaid

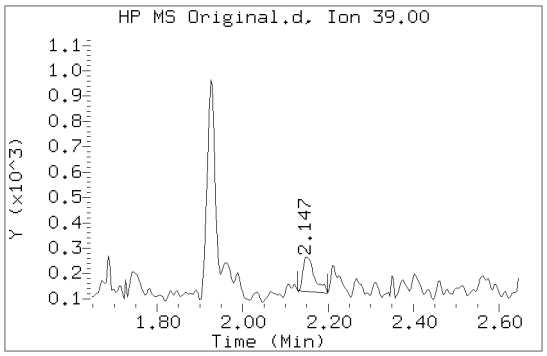


Isoprene (78-79-5)

Reason Code:

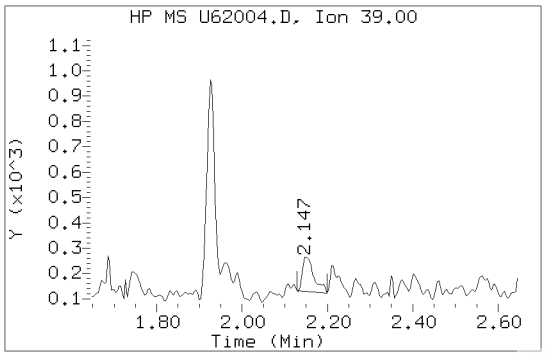
BEFORE

MASS
39
AREA
260
HEIGHT
134
29-Jun-2024
12:15
s
zaid



AFTER

MASS
39
AREA
260
HEIGHT
134
29-Jun-2024
12:15
s
zaid



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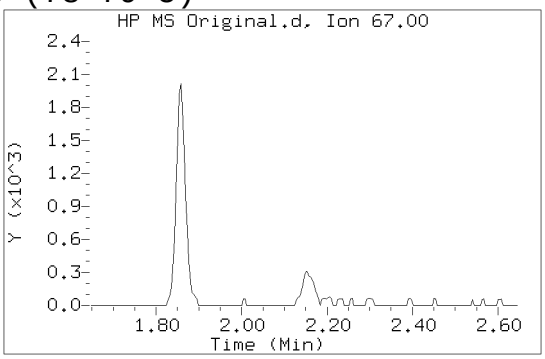
Inj Date : 20-JUN-2024 12:06
InstruID : VOA9.i
LabSampID : VSTD001

Isoprene (78-79-5)

Reason Code:

BEFORE

MASS
67
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
67
AREA
0
HEIGHT
0
29-Jun-2024
12:15
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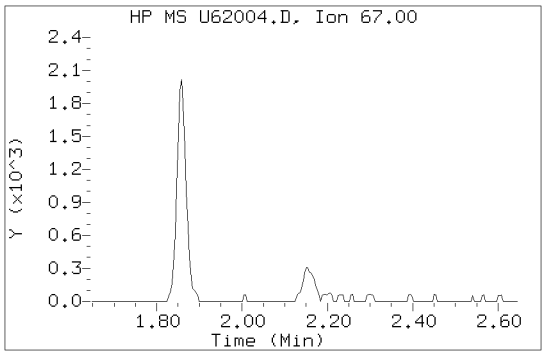
zaid



BEFORE

MASS
53
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29-Jun-2024
12:15
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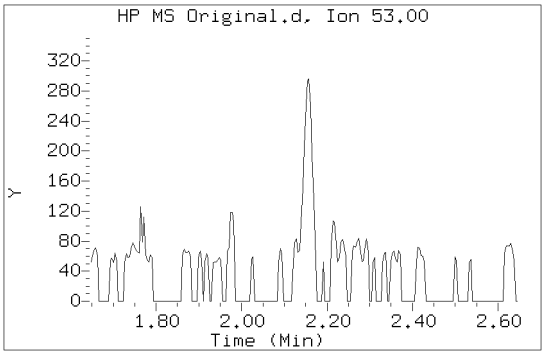
zaid



AFTER

MASS
53
AREA
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HEIGHT
0
29-Jun-2024
12:15
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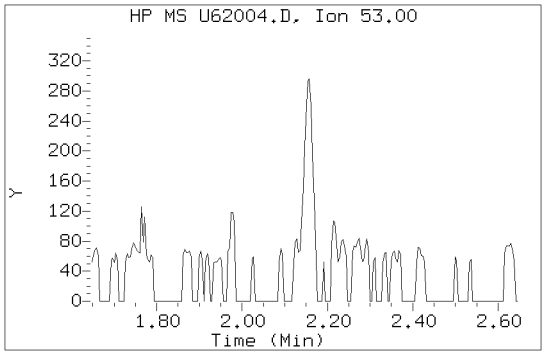
zaid



n-Amyl acetate (628-63-7)

Reason Code:

BEFORE

MASS
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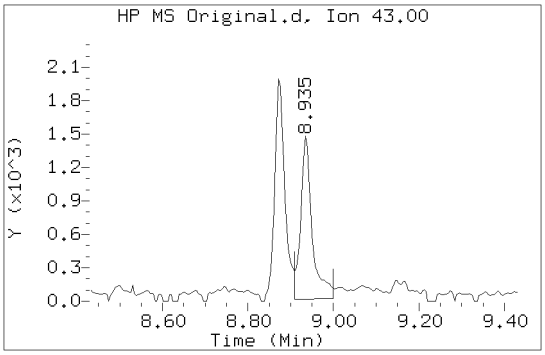
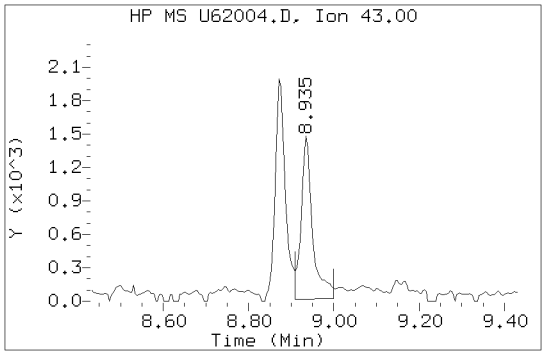
AREA
2778
HEIGHT
1462
29-Jun-2024
12:15
s
zaid



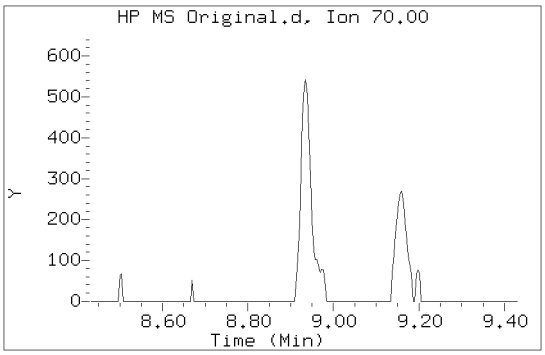
AFTER

MASS
43
AREA
2778
HEIGHT
1462
29-Jun-2024
12:15
s
zaid



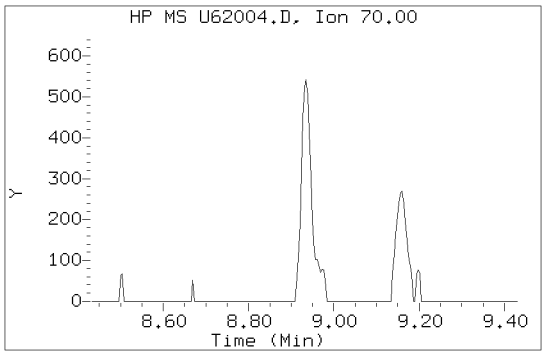
BEFORE

MASS
70
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
70
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



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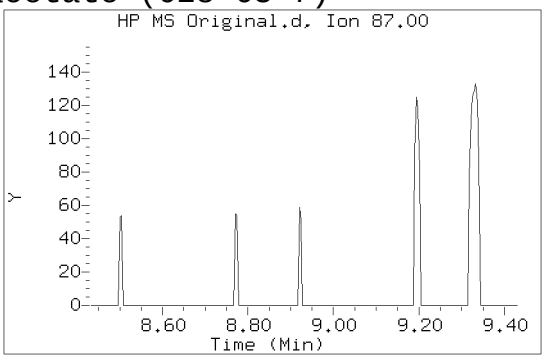
Inj Date : 20-JUN-2024 12:06
InstruID : VOA9.i
LabSampID : VSTD001

n-Amyl acetate (628-63-7)

BEFORE
MASS
87
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



Reason Code:

AFTER
MASS
87
AREA
0
HEIGHT
0
29-Jun-2024
12:15
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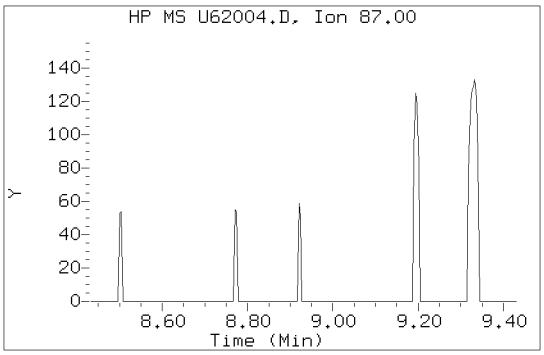
zaid



Isopropyl acetate (108-21-4)

BEFORE
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AREA
4316
HEIGHT
2215
29-Jun-2024
12:15
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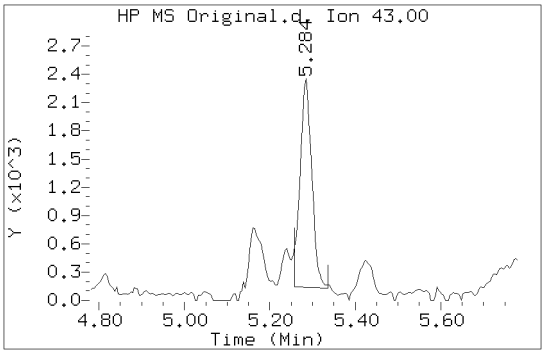
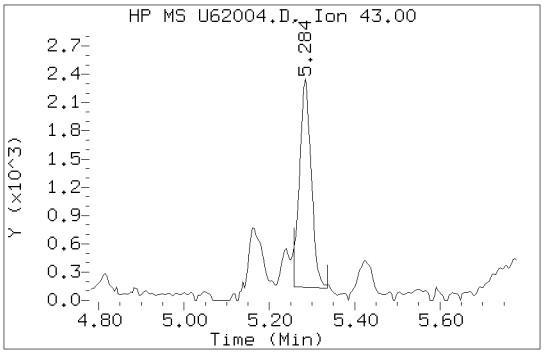


Reason Code:

AFTER
MASS
43
AREA
4316
HEIGHT
2215
29-Jun-2024
12:15
s
zaid



BEFORE
MASS
61
AREA
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HEIGHT
0
29-Jun-2024
12:15
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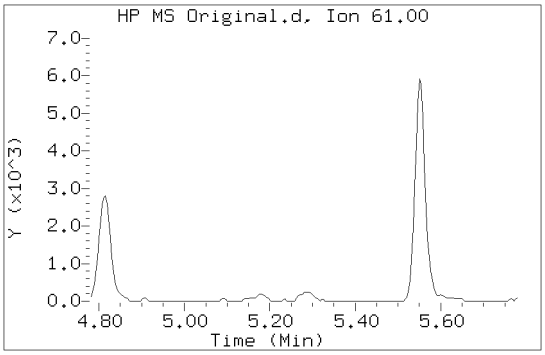
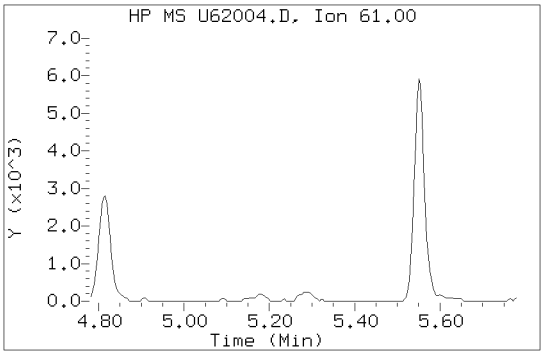
zaid



AFTER
MASS
61
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



n-Butyl acetate (123-86-4)

BEFORE
MASS
43
AREA
2103
HEIGHT
1328
29-Jun-2024
12:15
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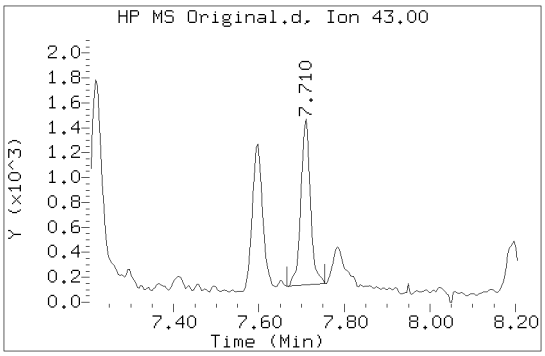
zaid



Reason Code:

AFTER
MASS
43
AREA
2103
HEIGHT
1328
29-Jun-2024
12:15
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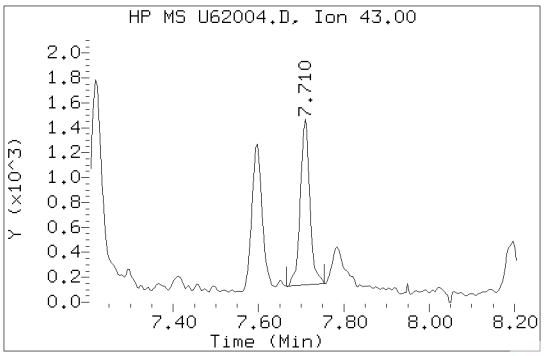

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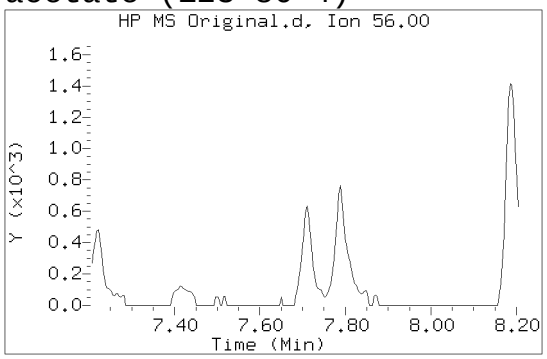
Inj Date : 20-JUN-2024 12:06
InstruID : VOA9.i
LabSampID : VSTD001

n-Butyl acetate (123-86-4)

Reason Code:

BEFORE

MASS
56
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
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HEIGHT
0
29-Jun-2024
12:15
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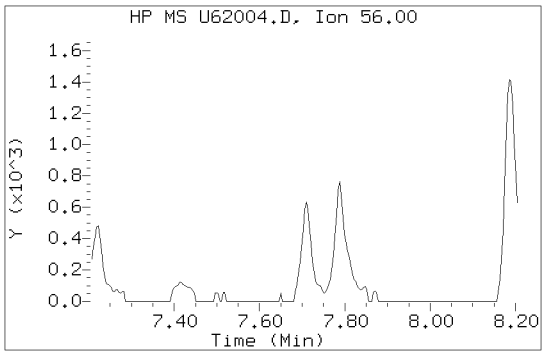
zaid



BEFORE

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HEIGHT
0
29-Jun-2024
12:15
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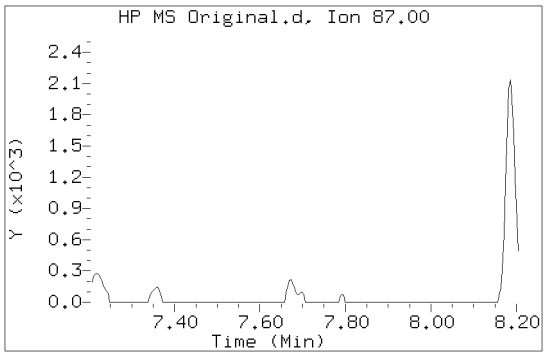

AFTER

MASS
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AREA
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HEIGHT
0
29-Jun-2024
12:15
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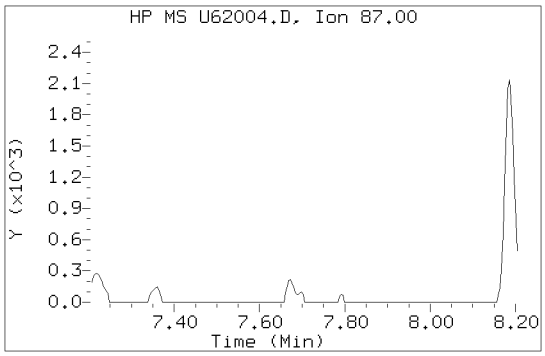
zaid

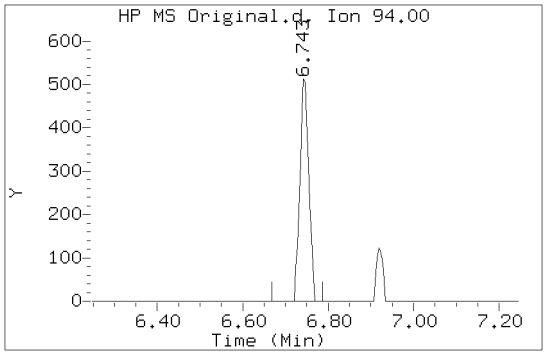


Dimethyl Disulfide (624-92-0)

Reason Code:

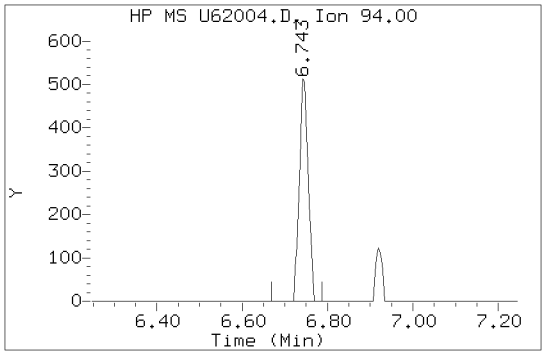
BEFORE

MASS
94
AREA
761
HEIGHT
513
29-Jun-2024
12:15
s
zaid



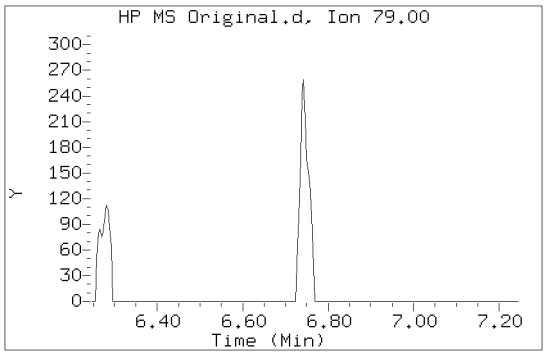
AFTER

MASS
94
AREA
761
HEIGHT
513
29-Jun-2024
12:15
s
zaid



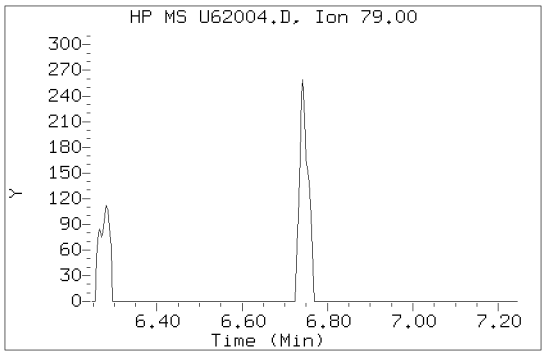
BEFORE

MASS
79
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
79
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



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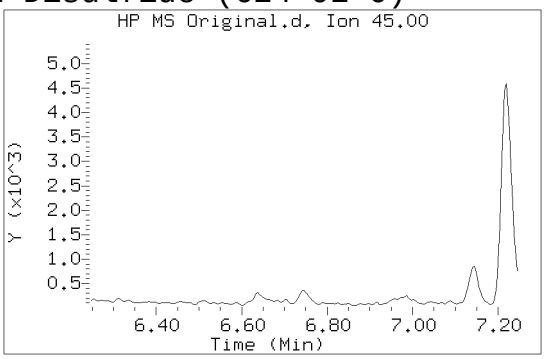
Inj Date : 20-JUN-2024 12:06
InstruID : VOA9.i
LabSampID : VSTD001

Dimethyl Disulfide (624-92-0)

Reason Code:

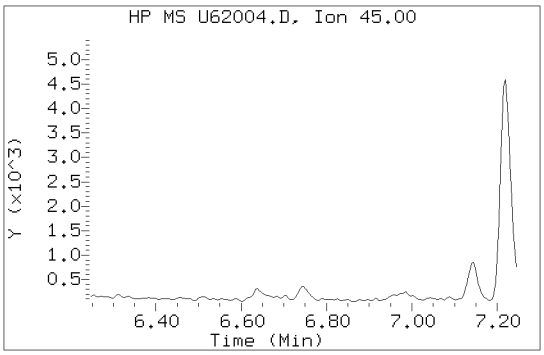
BEFORE

MASS
45
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
45
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid

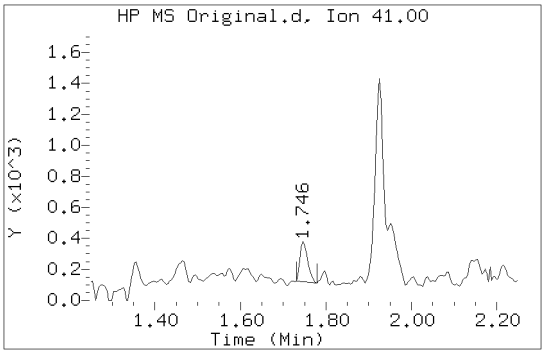


Isobutylene (115-11-7)

Reason Code:

BEFORE

MASS
41
AREA
329
HEIGHT
258
29-Jun-2024
12:15
s
zaid



AFTER

MASS
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29-Jun-2024
12:15
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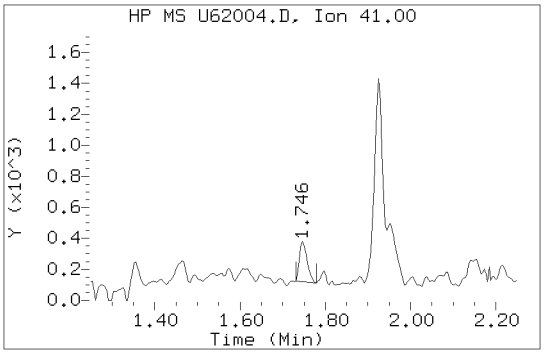

BEFORE

MASS
56
AREA
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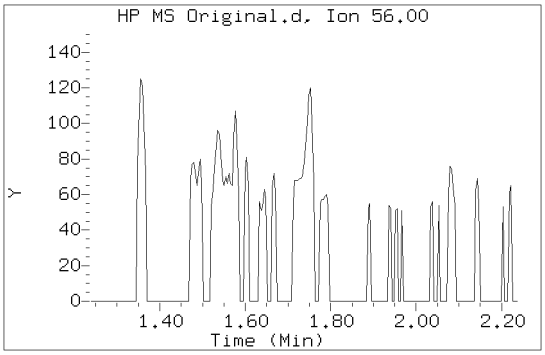
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
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AREA
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HEIGHT
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29-Jun-2024
12:15
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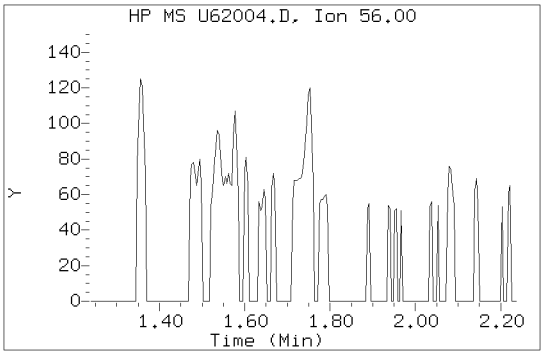
zaid



BEFORE

MASS
84
AREA
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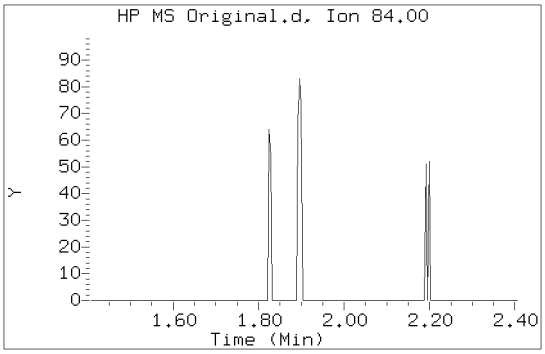
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
84
AREA
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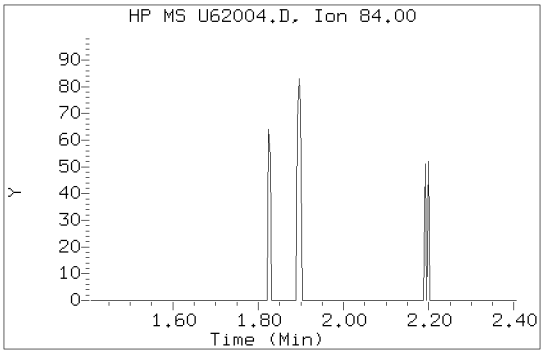
HEIGHT
0
29-Jun-2024
12:15
s
zaid



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InstruID : VOA9.i
LabSampID : VSTD001

sec-Butyl Ether (6863-58-7)

Reason Code:

BEFORE

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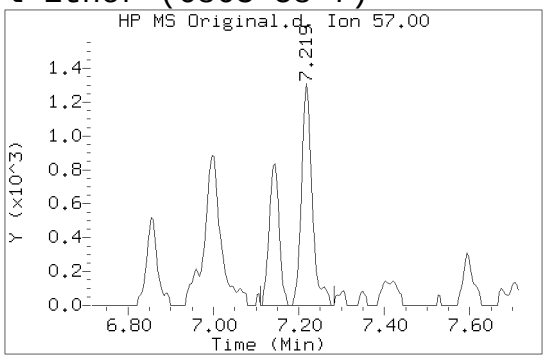

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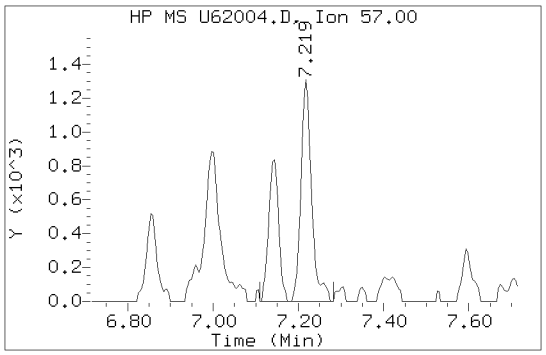

2-Chloropropene (557-98-2)

Reason Code:

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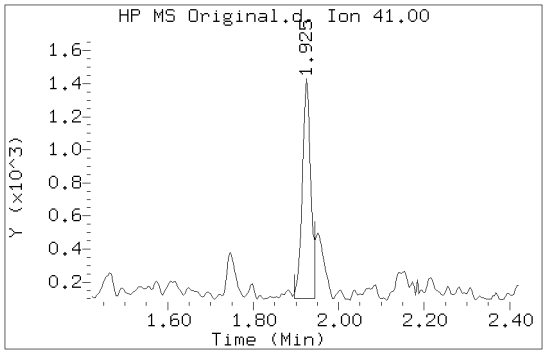

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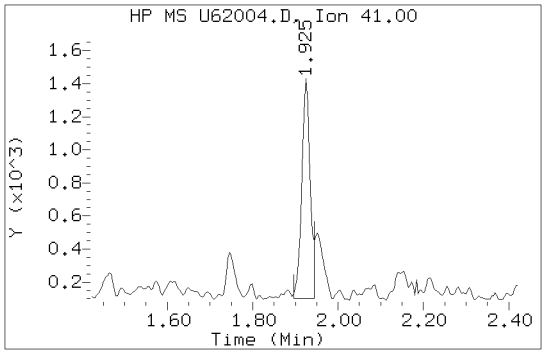


Data File: \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62005.D Page 1
Report Date: 29-Jun-2024 12:15

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62005.D
Lab Smp Id: VSTD002 Client Smp ID: VSTD002
Inj Date : 20-JUN-2024 12:27
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\U240620.b\8260C.m
Meth Date : 29-Jun-2024 12:15 VOA9.i Quant Type: ISTD
Cal Date : 20-JUN-2024 12:06 Cal File: U62004.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: NAHSTW7014

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)	239778	50.0000	
2 Dichlorodifluoromethane	85	1.160	1.160	(0.241)	3605	2.00000	2.10(M)
3 Chloromethane	50	1.291	1.291	(0.268)	13423	2.00000	2.01
4 Propionitrile	54	4.335	4.335	(0.901)	5919	20.0000	20.64(aM)
5 Vinyl Chloride	62	1.374	1.374	(0.286)	4934	2.00000	2.44(M)
6 Bromomethane	94	1.614	1.614	(0.335)	2855	2.00000	1.48
7 Chloroethane	64	1.696	1.696	(0.353)	3881	2.00000	2.23
8 Trichlorofluoromethane	101	1.887	1.887	(0.392)	4839	2.00000	2.10
9 Acrolein	56	2.255	2.255	(0.469)	728	4.00000	3.82(a)
10 Acetone	43	2.405	2.405	(0.500)	5656	4.00000	2.13
11 1,1-Dichloroethene	96	2.326	2.326	(0.483)	3341	2.00000	2.38
12 Isobutyl Alcohol	43	5.284	5.284	(1.098)	9925	40.0000	41.92(a)
13 Acetonitrile	39	2.663	2.663	(0.554)	4085	20.0000	12.31(a)
14 Allyl Chloride	41	2.667	2.667	(0.554)	9919	2.00000	1.80(a)
15 Iodomethane	142	2.457	2.457	(0.511)	2557	4.00000	5.38(T)
16 Acrylonitrile	53	3.061	3.061	(0.636)	3090	4.00000	4.79
17 Methylene Chloride	84	2.787	2.787	(0.579)	6118	2.00000	2.05
18 Methyl tert-butyl ether	73	3.076	3.076	(0.639)	9527	2.00000	2.71
19 Carbon Disulfide	76	2.513	2.513	(0.522)	16568	4.00000	4.29
20 trans-1,2-Dichloroethene	96	3.049	3.049	(0.634)	3775	2.00000	1.98

21 Vinyl Acetate	43	4.339	4.339 (0.902)	3669	4.00000	4.08(M)
22 1,1-Dichloroethane	63	3.503	3.503 (0.728)	7303	2.00000	1.87

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62005.D Page 2
Report Date: 29-Jun-2024 12:15

	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)	5563	2.00000	2.09(a)
	24 2-Butanone	43	4.264	4.264	(0.886)	3511	4.00000	4.36
	25 Methacrylonitrile	41	4.489	4.489	(0.933)	1915	2.00000	2.61(aM)
	26 2,2-Dichloropropane	77	4.178	4.178	(0.868)	4589	2.00000	2.61
	27 cis-1,2-Dichloroethene	96	4.189	4.189	(0.871)	4314	2.00000	2.12
	28 Chloroform	83	4.568	4.568	(0.949)	7659	2.00000	1.86
	29 Bromochloromethane	128	4.463	4.463	(0.928)	2408	2.00000	2.50
$	30 Dibromofluoromethane	113	4.740	4.740	(0.985)	3969	2.00000	2.49
	31 1,1,1-Trichloroethane	97	4.736	4.736	(0.984)	4663	2.00000	2.09
	32 1,1-Dichloropropene	75	4.920	4.920	(0.887)	4266	2.00000	1.97(M)
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	6181	2.00000	1.60
	34 Carbon Tetrachloride	117	4.905	4.905	(0.884)	3503	2.00000	1.93(M)
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.059)	5111	2.00000	2.51
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	354520	50.0000	
	37 Benzene	78	5.134	5.134	(0.925)	16431	2.00000	2.25
	38 Trichloroethene	130	5.786	5.786	(1.043)	4026	2.00000	2.27(a)
	39 Bromodichloromethane	83	6.273	6.273	(1.130)	4250	2.00000	2.06(aM)
	40 Methyl Methacrylate	41	5.823	5.823	(1.210)	1372	2.00000	2.18(a)
	41 2-Chloroethylvinyl ether	63	6.562	6.562	(1.182)	106	4.00000	11.28(M)
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	4418	2.00000	2.28(a)
	43 2-Nitropropane	43	6.506	6.506	(1.352)	735	2.00000	1.93(aM)
	44 Dibromomethane	93	6.116	6.116	(1.102)	2427	2.00000	2.15(a)
	45 4-Methyl-2-Pentanone	43	6.854	6.854	(0.837)	7395	4.00000	4.21(a)
	46 cis-1,3-Dichloropropene	75	6.689	6.689	(1.205)	4560	2.00000	1.89(a)
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	318620	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	14829	2.00000	2.39(a)
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	4523	2.00000	2.00(a)
	50 Toluene	91	6.978	6.978	(0.853)	16068	2.00000	2.21(a)
	51 trans-1,3-Dichloropropene	75	7.195	7.195	(1.297)	3367	2.00000	3.68(a)
	52 2-Hexanone	43	7.218	7.218	(0.882)	6913	4.00000	5.03
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	3147	2.00000	2.24(a)
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	6566	2.00000	2.22(a)
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	2756	2.00000	1.88(a)
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	2962	2.00000	2.18(a)
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	3156	2.00000	2.03(a)
	58 1-Chlorohexane	55	8.189	8.189	(1.475)	5605	2.00000	3.43(a)
	59 Chlorobenzene	112	8.208	8.208	(1.003)	10976	2.00000	1.74(a)
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	3175	2.00000	2.03(a)
	61 Ethylbenzene	106	8.305	8.305	(1.015)	4702	2.00000	2.09(a)
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	10364	4.00000	3.86(a)
	63 o-Xylene	106	8.747	8.747	(1.069)	4864	2.00000	1.84(a)
	64 Styrene	104	8.762	8.762	(1.071)	8610	2.00000	1.94(a)
	66 Bromoform	173	8.920	8.920	(1.090)	1781	2.00000	2.76(Ta)
	67 Isopropylbenzene	105	9.062	9.062	(1.107)	12729	2.00000	1.94(a)
	68 1,1,2,2-Tetrachloroethane	83	9.328	9.328	(0.917)	4977	2.00000	2.08(aM)
$	69 4-Bromofluorobenzene	95	9.193	9.193	(1.123)	5815	2.00000	2.39(a)
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	168373	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	4881	2.00000	3.08(a)
	72 trans-1,4-Dichloro-2-butene	53	9.381	9.381	(1.146)	809	2.00000	1.81(a)
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	14357	2.00000	1.97(a)
	74 Bromobenzene	156	9.317	9.317	(0.916)	4522	2.00000	2.28(a)
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	8809	2.00000	3.22(a)

76	2-Chlorotoluene	91	9.482	9.482 (0.932)	10080	2.00000	2.04(a)
77	4-Chlorotoluene	91	9.576	9.576 (0.941)	11347	2.00000	2.02(a)

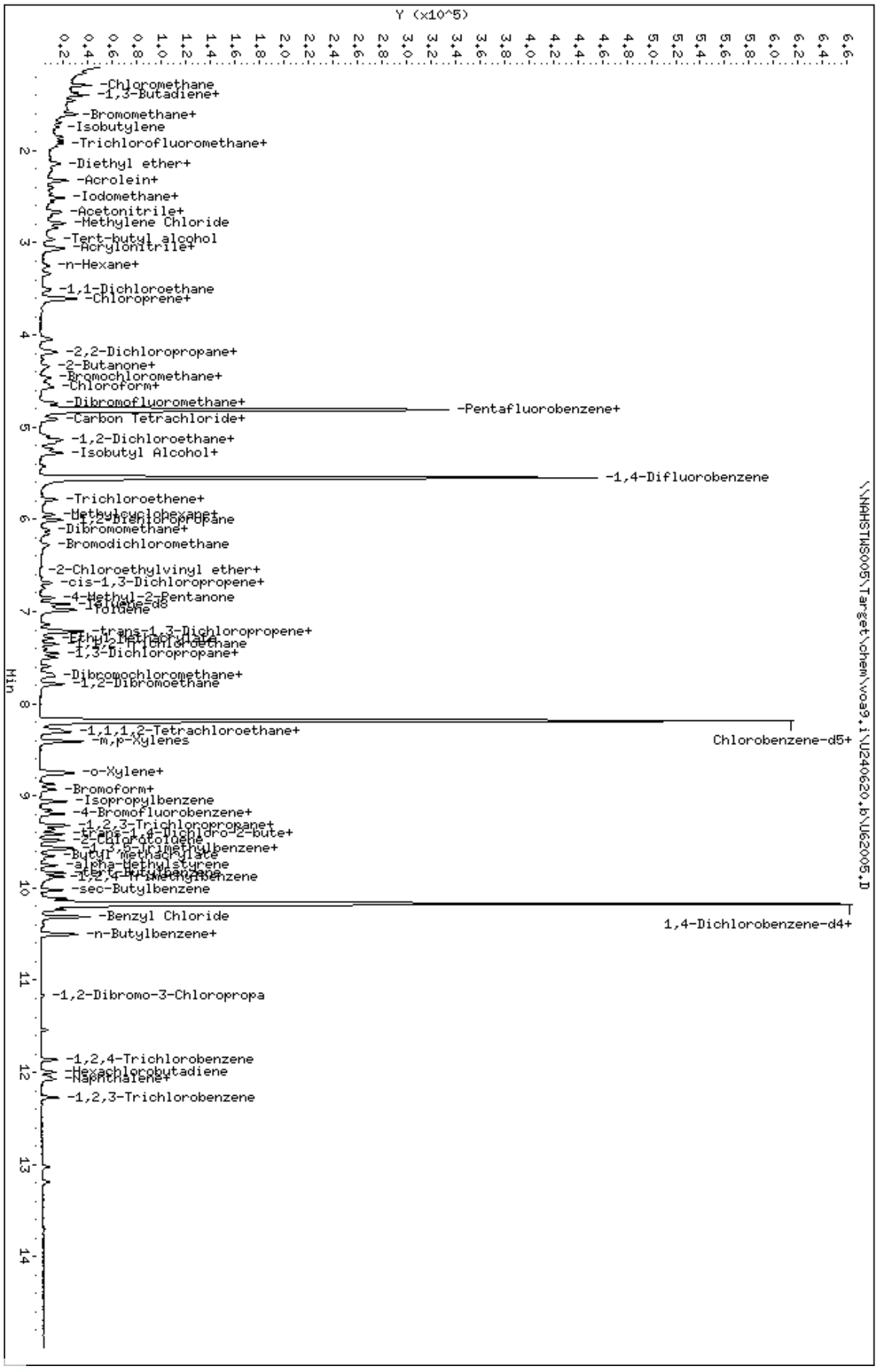
Data File: \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62005.D Page 3
Report Date: 29-Jun-2024 12:15

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.838	9.838	(0.967)	8524	2.00000	1.92(a)
79	1,2,4-Trimethylbenzene	105	9.879	9.879	(0.971)	12188	2.00000	2.27(aM)
81	sec-Butylbenzene	105	10.022	10.022	(0.985)	11025	2.00000	1.86(a)
82	p-Isopropyltoluene	119	10.146	10.146	(0.997)	8854	2.00000	3.15(a)
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	8094	2.00000	2.22(a)
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	8802	2.00000	1.92(a)
86	Benzyl Chloride	91	10.311	10.311	(1.260)	26630	2.00000	4.69(a)
87	n-Butylbenzene	91	10.494	10.494	(1.032)	7724	2.00000	2.84(a)
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	7893	2.00000	2.17(a)
89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	571	2.00000	2.52(aM)
90	1,2,4-Trichlorobenzene	180	11.863	11.863	(1.166)	4136	2.00000	1.88(a)
91	Hexachlorobutadiene	225	12.001	12.001	(1.180)	1995	2.00000	2.05(a)
92	Naphthalene	128	12.072	12.072	(1.187)	8058	2.00000	3.47(a)
93	1,2,3-Trichlorobenzene	180	12.275	12.275	(1.207)	4185	2.00000	2.08(a)
146	Methyl acetate	43	2.708	2.708	(0.563)	3673	2.00000	0.52(a)
138	Freon TF	101	2.326	2.326	(0.483)	2577	2.00000	1.49(a)
141	Cyclohexane	56	4.811	4.811	(1.000)	8326	2.00000	2.70(a)
142	Tetrahydrofuran	42	4.545	4.545	(0.945)	1103	4.00000	3.88(aM)
147	Methylcyclohexane	55	5.943	5.943	(1.071)	6323	2.00000	1.67(a)
135	1,4-Dioxane	88	6.168	6.168	(1.282)	1106	40.0000	25.23
132	n-Butanol	56	5.827	5.827	(1.211)	2050	40.0000	47.27(a)
136	n-Hexane	57	3.334	3.334	(0.693)	3145	2.00000	2.04(a)
139	Diethyl ether	59	2.138	2.138	(0.445)	2804	2.00000	1.46(a)
148	Tert-butyl alcohol	59	2.963	2.963	(0.616)	7130	40.0000	40.02
149	Isopropyl alcohol	45	2.558	2.558	(0.532)	5605	40.0000	38.57
156	Diisopropyl ether	45	3.615	3.615	(0.751)	12472	2.00000	2.15(Ta)
162	Butyl acrylate	55	8.736	8.736	(1.067)	5640	2.00000	1.92(a)
164	Dicyclopentadiene	66	10.202	10.202	(1.003)	12710	2.00000	1.74(a)
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	9488	2.00000	1.97(a)
167	Ethanol	45	2.075	2.075	(0.431)	951	40.0000	24.42(M)
172	tert-Butyl formate	59	5.235	5.235	(1.088)	6189	4.00000	4.73(aM)
151	4-Methyl-2-pentanol	45	7.218	7.218	(1.301)	18311	40.0000	37.45
140	1,3-Butadiene	54	1.396	1.396	(0.290)	4560	2.00000	2.21(a)
182	Epichlorohydrin	57	6.633	6.633	(1.195)	356	8.00000	10.84(M)
M 94	1,2-Dichloroethylene (total)	96				8089	4.00000	(a)
130	Ethyl Acetate	43	4.534	4.534	(0.942)	1723	2.00000	1.04(aM)
131	Methyl Acrylate	55	4.369	4.369	(0.908)	4100	2.00000	2.06(aM)
189	n-Butyl acetate	43	7.705	7.705	(0.941)	5338	2.00000	2.10(a)
134	Cyclohexanone	55	9.156	9.156	(0.900)	3987	40.0000	38.78(a)
185	Isoprene	39	2.153	2.153	(0.448)	718	2.00000	2.06(a)
188	Isopropyl acetate	43	5.284	5.284	(0.952)	9833	2.00000	2.07(a)
150	Allyl alcohol	57	3.334	3.334	(0.693)	3145	40.0000	40.91
194	Acetaldehyde	44	1.456	1.456	(0.303)	3065	8.00000	7.64(M)
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	1413	2.00000	2.59(a)
202	Isobutylene	41	1.745	1.745	(0.363)	1008	2.00000	2.53(aM)
133	Ethyl Acrylate	55	5.943	5.943	(1.235)	6440	2.00000	1.70(aM)
163	Butyl methacrylate	41	9.651	9.651	(0.949)	3224	2.00000	1.30(a)
178	Ethylene oxide	44	1.602	1.602	(0.333)	7361	4.00000	4.13(aM)
203	2-Ethylhexyl Acrylate	55	12.046	12.046	(1.184)	3095	2.00000	2.99(a)
204	Tetrahydrothiophene	60	7.672	7.672	(0.937)	3699	2.00000	2.04(aA)
205	sec-Butyl Ether	57	7.214	7.214	(0.881)	7764	2.00000	2.18(aAM)
187	n-Amyl acetate	43	8.931	8.931	(1.091)	5895	2.00000	2.09(aM)

206 2-Chloropropene	41	1.917	1.917 (0.399)	4413	2.00000	1.79(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.


Y (x10^5)
Min
-Chloromethane
-1,3-Butadiene+
-Bromomethane+
-Isobutylene
-Trichlorofluoromethane+
-Diethyl ether+
-Acrolein+
-Iodomethane+
-Acetonitrile+
-Methylene Chloride
-Tert-butyl alcohol
-Acrylonitrile+
-n-Hexane+
-1,1-Dichloroethane
-Chloroprene+
-2,2-Dichloropropane+
-2-Butanone+
-Bromochloromethane+
-Chloroform+
-Dibromofluoromethane+
-Pentafluorobenzene+
-Carbon Tetrachloride+
-1,2-Dichloroethane+
-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+
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-m,p-Xylenes
Chlorobenzene-d5+
-o-Xylene+
-Bromoform+
-Isopropylbenzene
-4-Bromofluorobenzene+
-1,2,3-Trichloropropane+
-trans-1,4-Dichloro-2-bute+
-2-Chlorotoluene
-1,3,5-Trimethylbenzene+
-Butyl methacrylate
-alpha-Methylstyrene
-tert-Butylbenzene
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-Benzyl Chloride
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-n-Butylbenzene+
-1,2-Dibromo-3-Chloropropa
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene+
-1,2,3-Trichlorobenzene
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Date : 20-JUN-2024 12:27
Client ID: VSTD002
Sample Info: VSTD002;VSTD002;1;4
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Column phase: DB624
Instrument: VOA9,i
Operator: TS
Column diameter: 0.18
Page 1

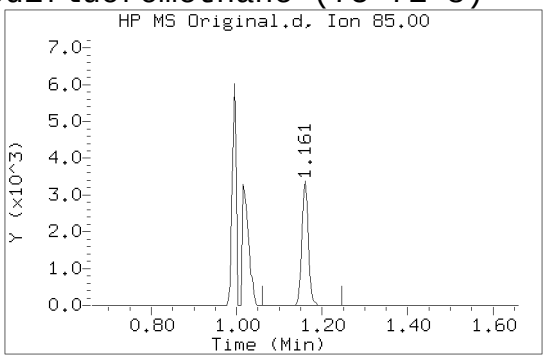
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62005.D
Inj Date : 20-JUN-2024 12:27
InstruID : VOA9.i
LabSampID : VSTD002

Dichlorodifluoromethane (75-71-8)

Reason Code:

BEFORE

MASS
85
AREA
3605
HEIGHT
3383
29-Jun-2024
12:15
s
zaid



AFTER

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29-Jun-2024
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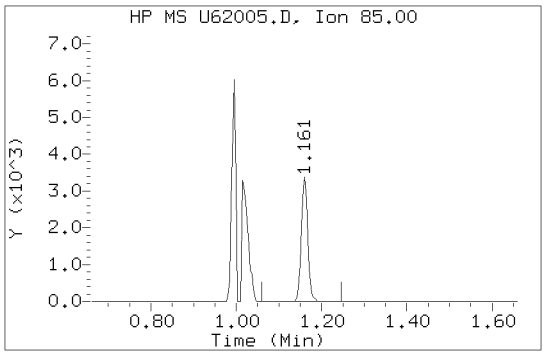

BEFORE

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29-Jun-2024
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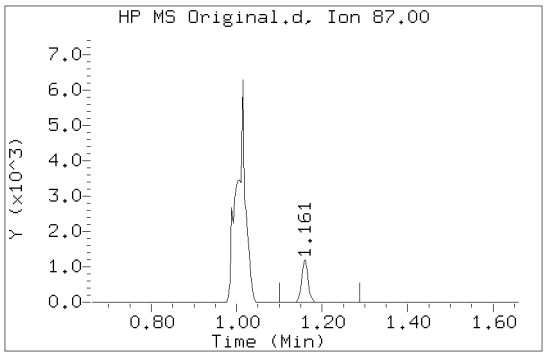
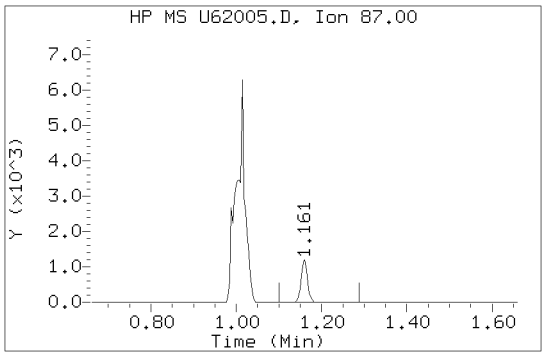
s
zaid



AFTER

MASS
87
AREA
1251
HEIGHT
1193
29-Jun-2024
12:15
s
zaid

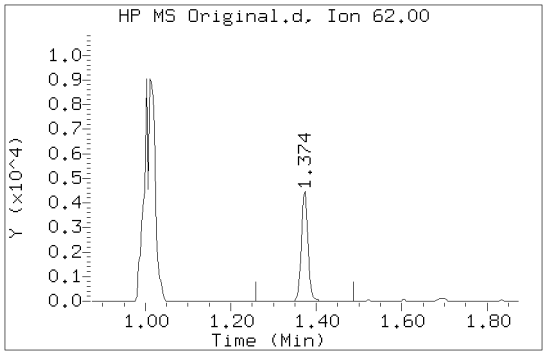


Vinyl Chloride (75-01-4)

Reason Code:

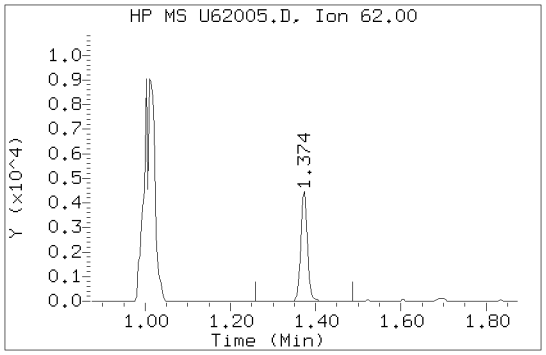
BEFORE

MASS
62
AREA
4934
HEIGHT
4475
29-Jun-2024
12:15
s
zaid



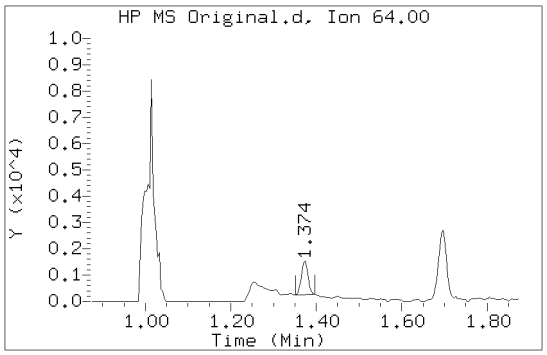
AFTER

MASS
62
AREA
4934
HEIGHT
4475
29-Jun-2024
12:15
s
zaid



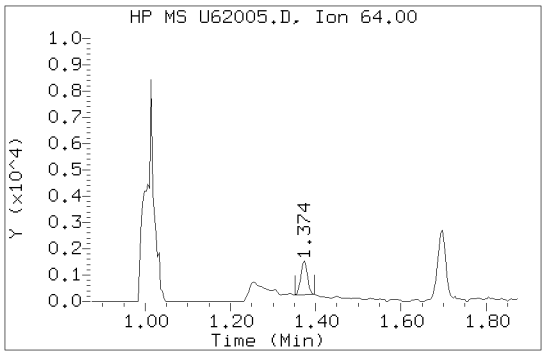
BEFORE

MASS
64
AREA
1390
HEIGHT
1276
29-Jun-2024
12:15
s
zaid



AFTER

MASS
64
AREA
1390
HEIGHT
1276
29-Jun-2024
12:15
s
zaid



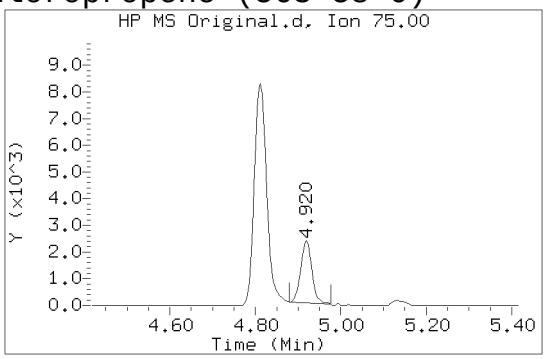
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62005.D
Inj Date : 20-JUN-2024 12:27
InstruID : VOA9.i
LabSampID : VSTD002

1,1-Dichloropropene (563-58-6)

Reason Code:

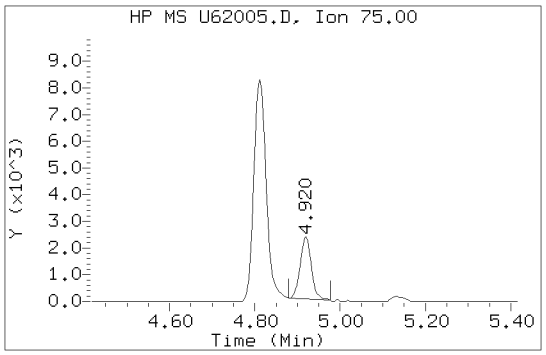
BEFORE

MASS
75
AREA
4266
HEIGHT
2318
29-Jun-2024
12:15
s
zaid



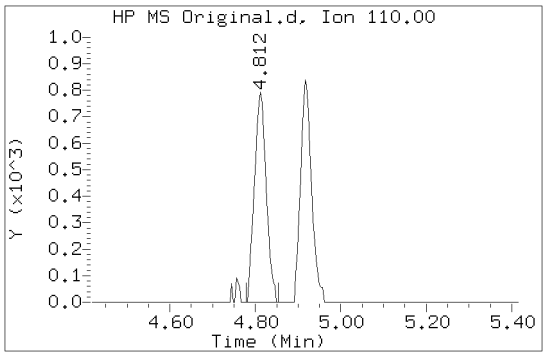
AFTER

MASS
75
AREA
4266
HEIGHT
2318
29-Jun-2024
12:15
s
zaid



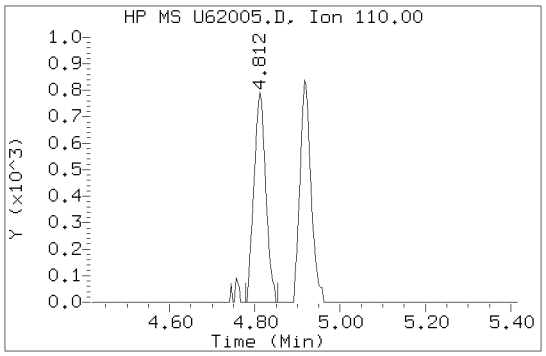
BEFORE

MASS
110
AREA
1522
HEIGHT
793
29-Jun-2024
12:15
s
zaid



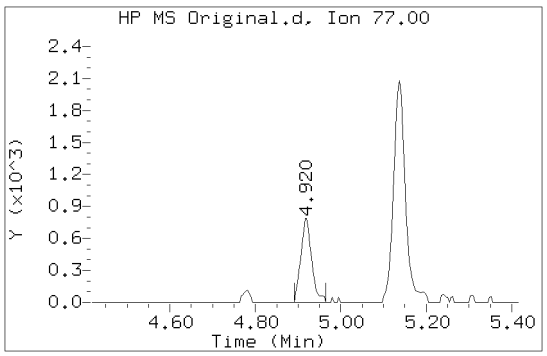
AFTER

MASS
110
AREA
1522
HEIGHT
793
29-Jun-2024
12:15
s
zaid



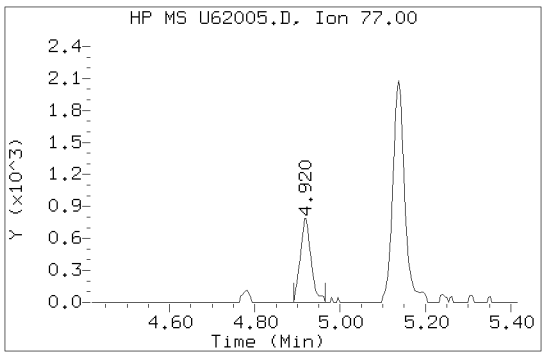
BEFORE

MASS
77
AREA
1423
HEIGHT
790
29-Jun-2024
12:15
s
zaid



AFTER

MASS
77
AREA
1423
HEIGHT
790
29-Jun-2024
12:15
s
zaid

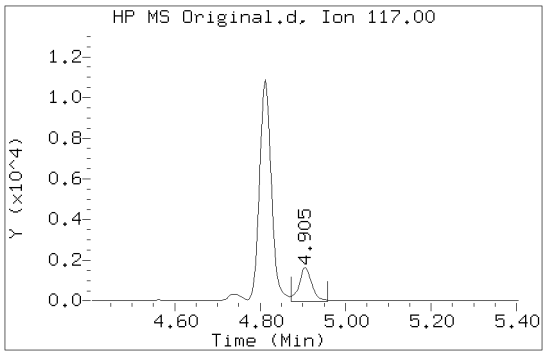


Carbon Tetrachloride (56-23-5)

Reason Code:

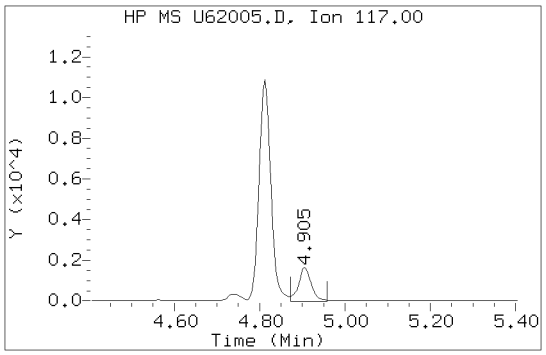
BEFORE

MASS
117
AREA
3503
HEIGHT
1676
29-Jun-2024
12:15
s
zaid



AFTER

MASS
117
AREA
3503
HEIGHT
1676
29-Jun-2024
12:15
s
zaid



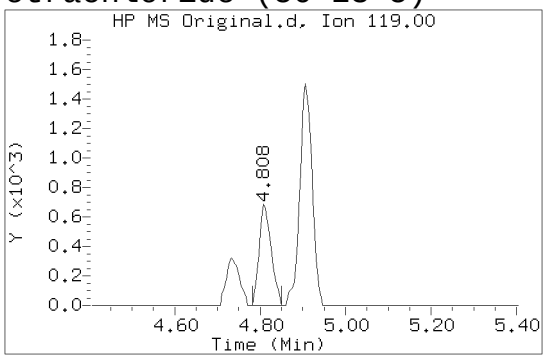
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62005.D
Inj Date : 20-JUN-2024 12:27
InstruID : VOA9.i
LabSampID : VSTD002

Carbon Tetrachloride (56-23-5)

Reason Code:

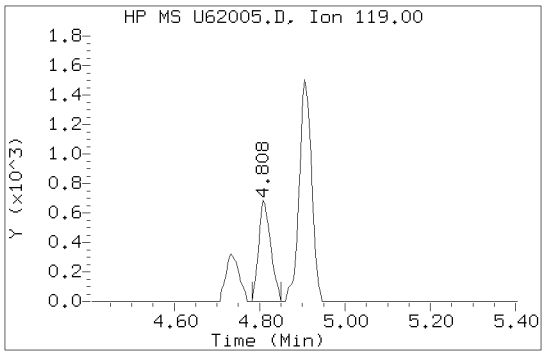
BEFORE

MASS
119
AREA
1345
HEIGHT
686
29-Jun-2024
12:15
s
zaid



AFTER

MASS
119
AREA
1345
HEIGHT
686
29-Jun-2024
12:15
s
zaid

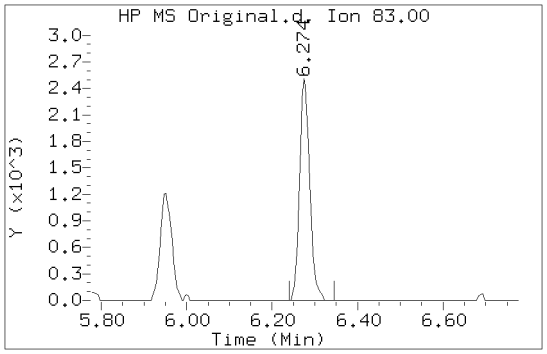


Bromodichloromethane (75-27-4)

Reason Code:

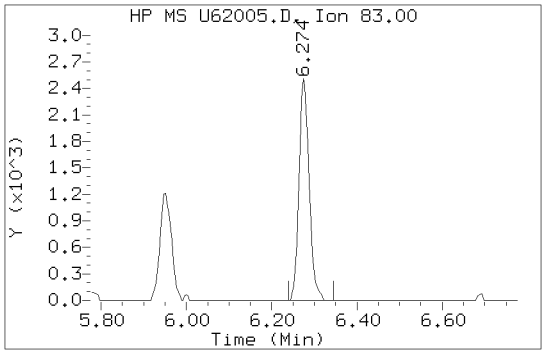
BEFORE

MASS
83
AREA
4250
HEIGHT
2510
29-Jun-2024
12:15
s
zaid



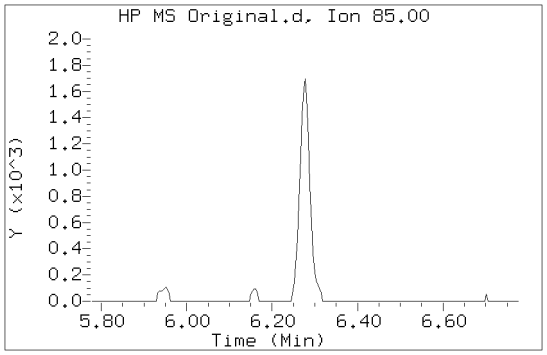
AFTER

MASS
83
AREA
4250
HEIGHT
2510
29-Jun-2024
12:15
s
zaid



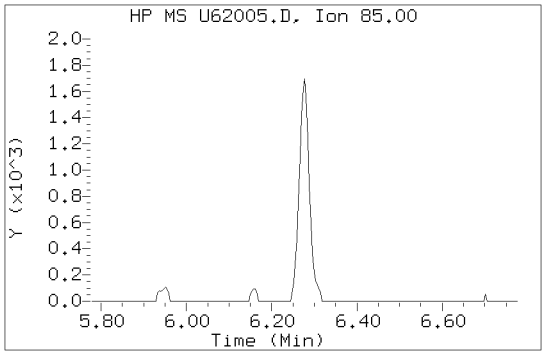
BEFORE

MASS
85
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



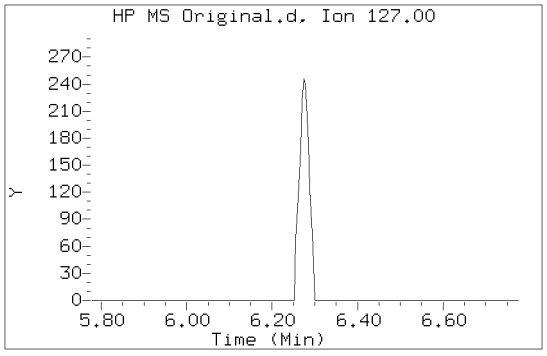
AFTER

MASS
85
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



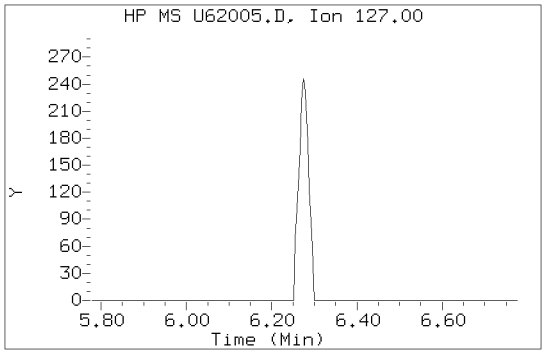
BEFORE

MASS
127
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
127
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



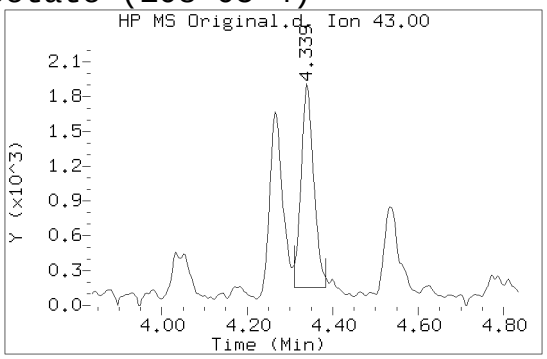
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62005.D
Inj Date : 20-JUN-2024 12:27
InstruID : VOA9.i
LabSampID : VSTD002

Vinyl Acetate (108-05-4)

Reason Code:

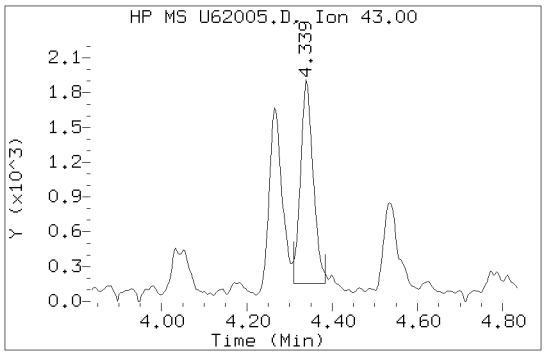
BEFORE

MASS
43
AREA
3669
HEIGHT
1757
29-Jun-2024
12:15
s
zaid



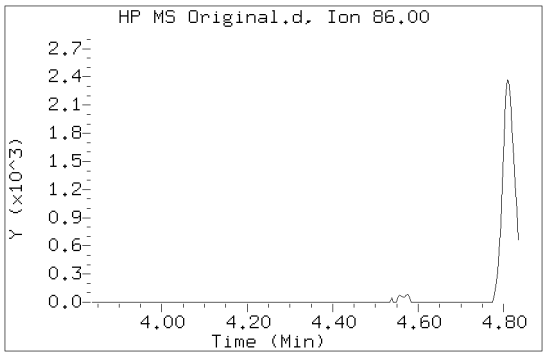
AFTER

MASS
43
AREA
3669
HEIGHT
1757
29-Jun-2024
12:15
s
zaid



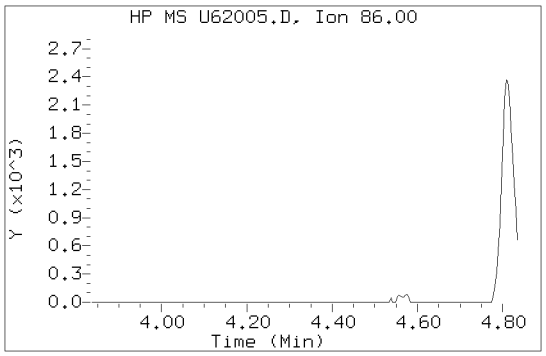
BEFORE

MASS
86
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
86
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid

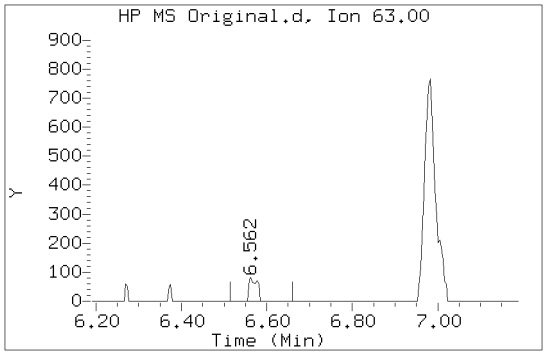


2-Chloroethylvinyl ether (110-75-8)

Reason Code:

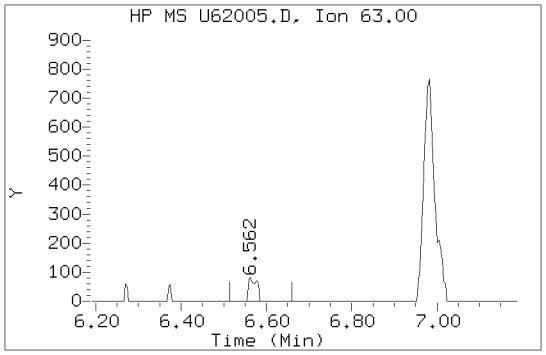
BEFORE

MASS
63
AREA
106
HEIGHT
81
29-Jun-2024
12:15
s
zaid



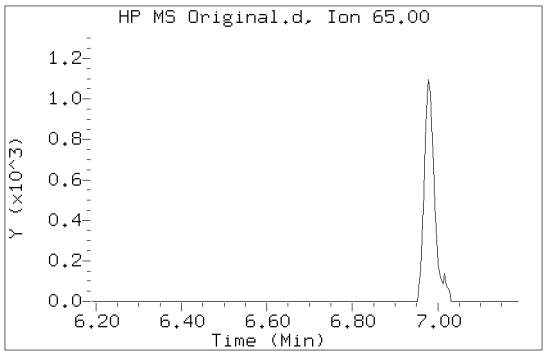
AFTER

MASS
63
AREA
106
HEIGHT
81
29-Jun-2024
12:15
s
zaid



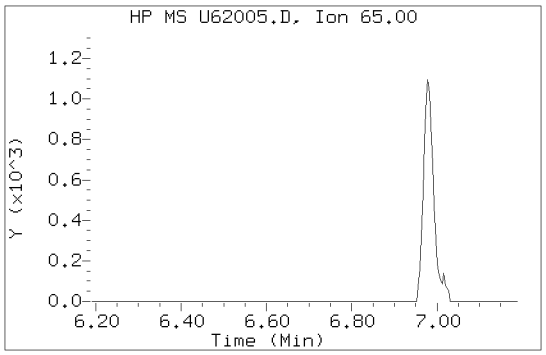
BEFORE

MASS
65
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
65
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



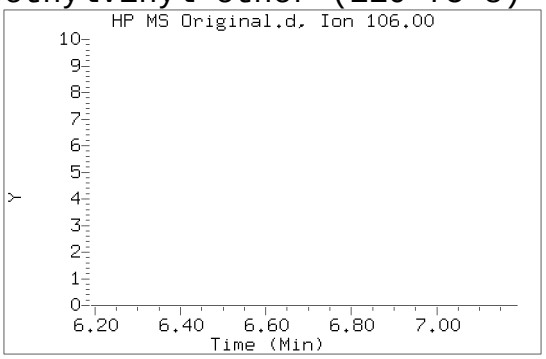
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62005.D
Inj Date : 20-JUN-2024 12:27
InstruID : VOA9.i
LabSampID : VSTD002

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

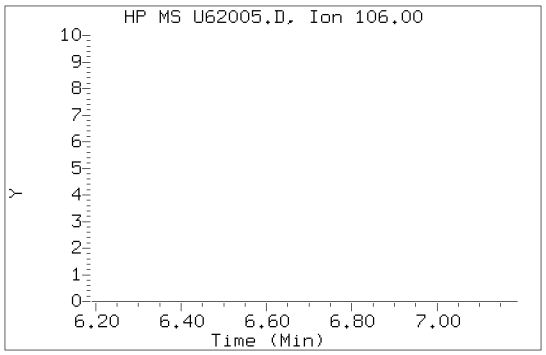
BEFORE

MASS
106
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
106
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid

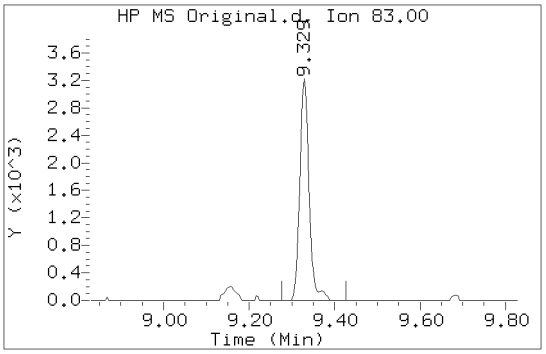


1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

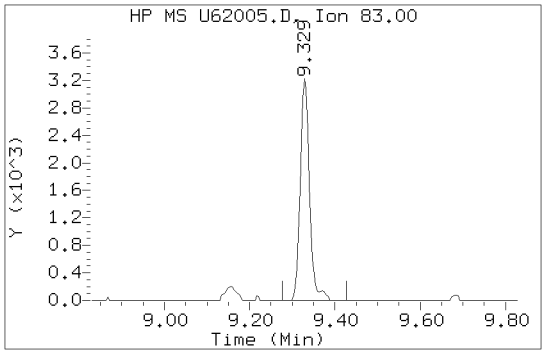
BEFORE

MASS
83
AREA
4977
HEIGHT
3225
29-Jun-2024
12:15
s
zaid



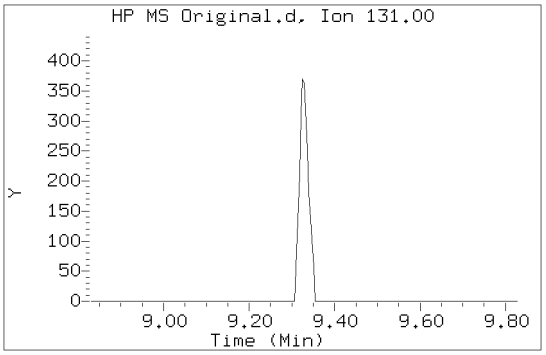
AFTER

MASS
83
AREA
4977
HEIGHT
3225
29-Jun-2024
12:15
s
zaid



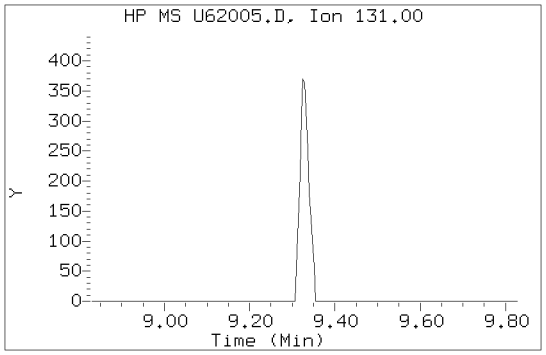
BEFORE

MASS
131
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



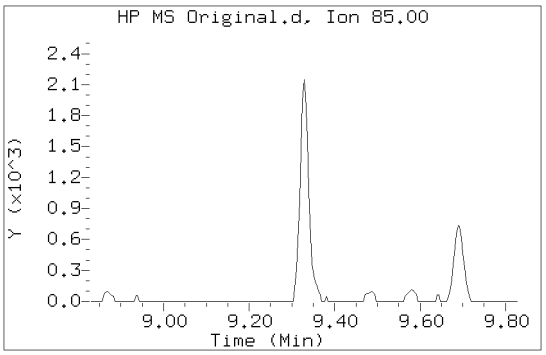
AFTER

MASS
131
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



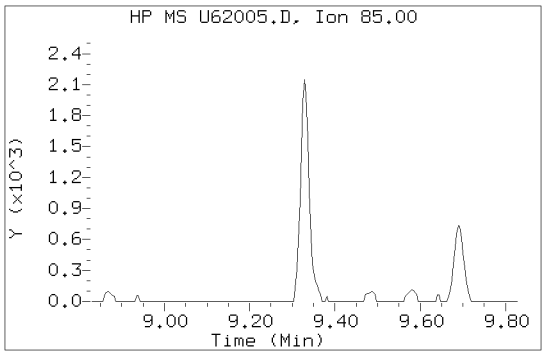
BEFORE

MASS
85
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
85
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



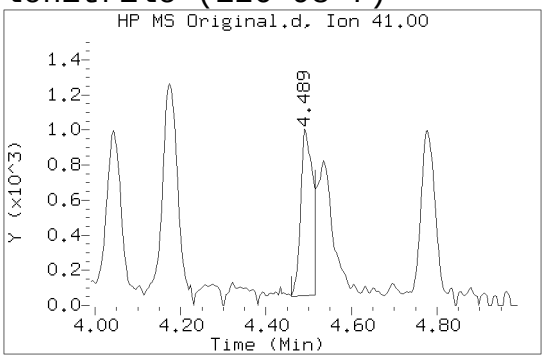
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62005.D
Inj Date : 20-JUN-2024 12:27
InstruID : VOA9.i
LabSampID : VSTD002

Methacrylonitrile (126-98-7)

Reason Code:

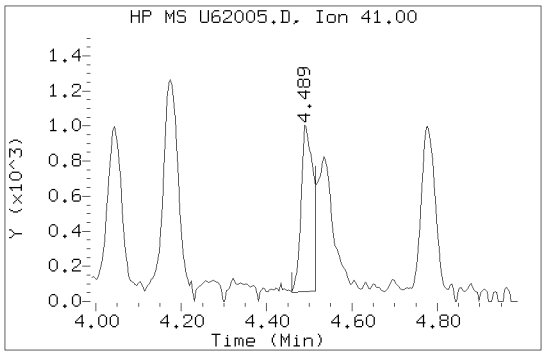
BEFORE

MASS
41
AREA
1915
HEIGHT
950
29-Jun-2024
12:15
s
zaid



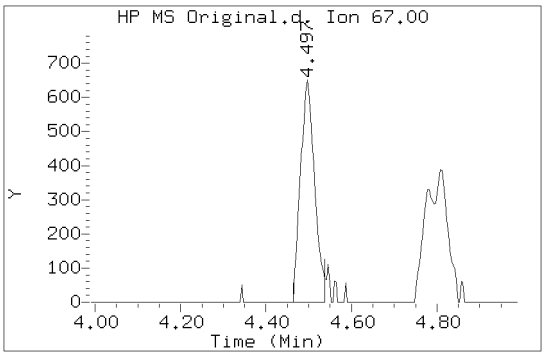
AFTER

MASS
41
AREA
1915
HEIGHT
950
29-Jun-2024
12:15
s
zaid



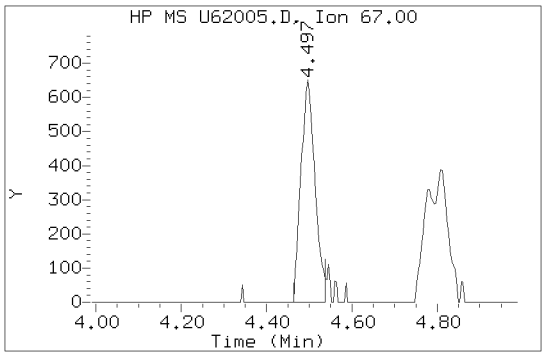
BEFORE

MASS
67
AREA
1515
HEIGHT
651
29-Jun-2024
12:15
s
zaid



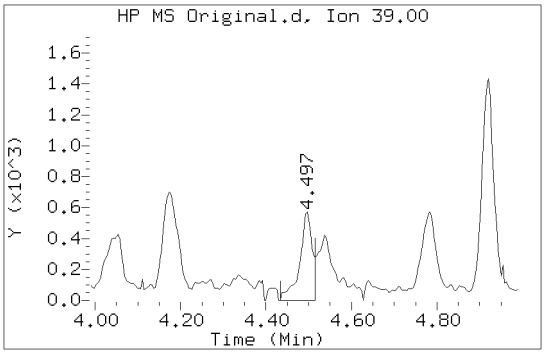
AFTER

MASS
67
AREA
1515
HEIGHT
651
29-Jun-2024
12:15
s
zaid



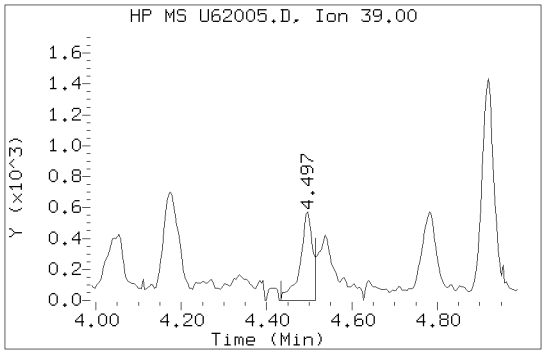
BEFORE

MASS
39
AREA
1205
HEIGHT
571
29-Jun-2024
12:15
s
zaid



AFTER

MASS
39
AREA
1205
HEIGHT
571
29-Jun-2024
12:15
s
zaid

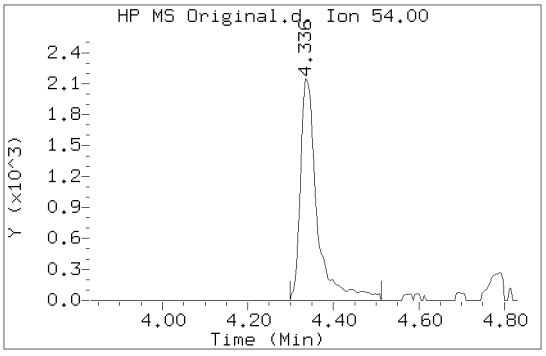


Propionitrile (107-12-0)

Reason Code:

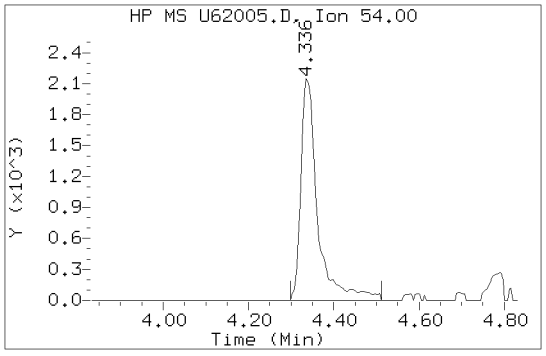
BEFORE

MASS
54
AREA
5919
HEIGHT
2148
29-Jun-2024
12:15
s
zaid



AFTER

MASS
54
AREA
5919
HEIGHT
2148
29-Jun-2024
12:15
s
zaid



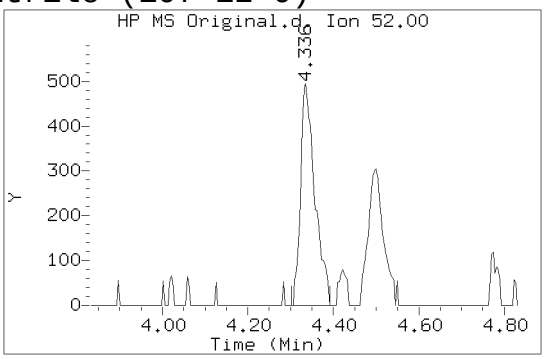
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62005.D
Inj Date : 20-JUN-2024 12:27
InstruID : VOA9.i
LabSampID : VSTD002

Propionitrile (107-12-0)

Reason Code:

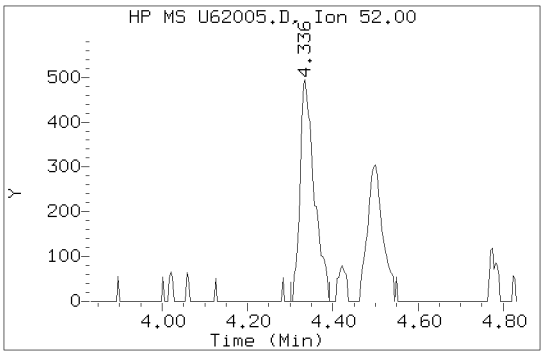
BEFORE

MASS
52
AREA
1158
HEIGHT
495
29-Jun-2024
12:15
s
zaid



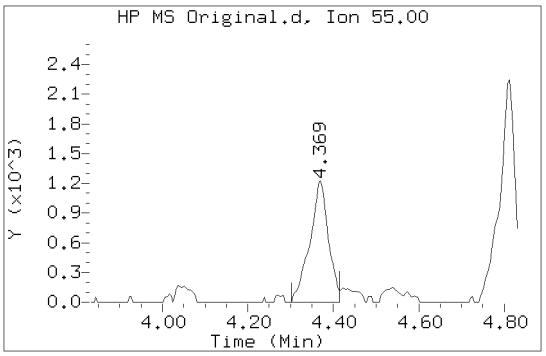
AFTER

MASS
52
AREA
1158
HEIGHT
495
29-Jun-2024
12:15
s
zaid



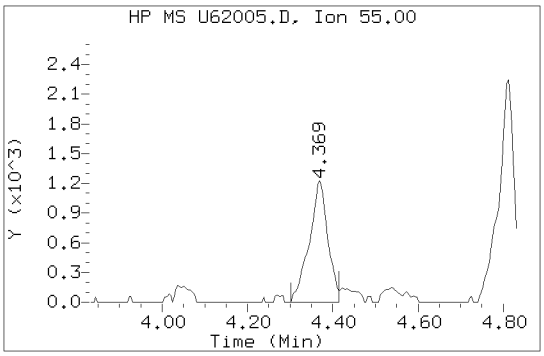
BEFORE

MASS
55
AREA
3718
HEIGHT
1225
29-Jun-2024
12:15
s
zaid



AFTER

MASS
55
AREA
3718
HEIGHT
1225
29-Jun-2024
12:15
s
zaid

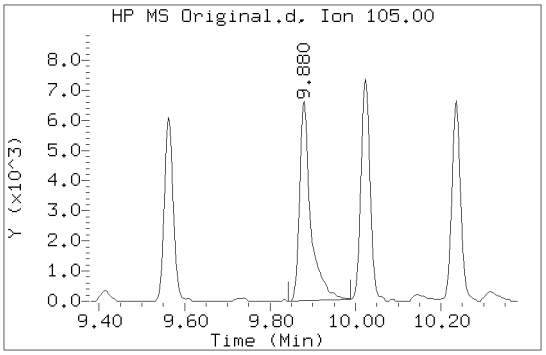


1,2,4-Trimethylbenzene (95-63-6)

Reason Code:

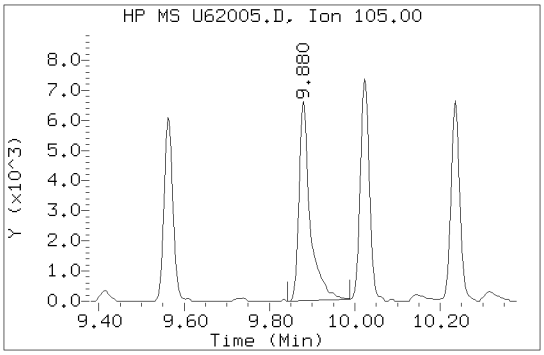
BEFORE

MASS
105
AREA
12188
HEIGHT
6618
29-Jun-2024
12:15
s
zaid



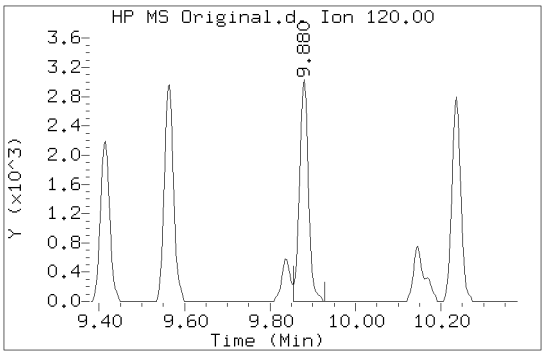
AFTER

MASS
105
AREA
12188
HEIGHT
6618
29-Jun-2024
12:15
s
zaid



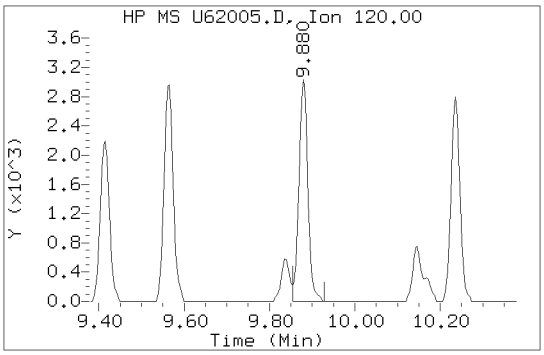
BEFORE

MASS
120
AREA
4522
HEIGHT
3032
29-Jun-2024
12:15
s
zaid



AFTER

MASS
120
AREA
4522
HEIGHT
3032
29-Jun-2024
12:15
s
zaid

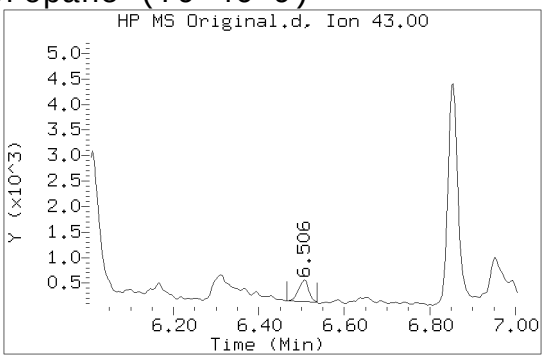


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62005.D
Inj Date : 20-JUN-2024 12:27
InstruID : VOA9.i
LabSampID : VSTD002

2-Nitropropane (79-46-9)

BEFORE

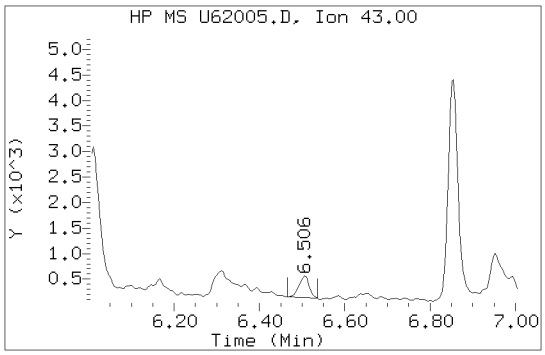
MASS
43
AREA
735
HEIGHT
436
29-Jun-2024
12:15
s
zaid



Reason Code:

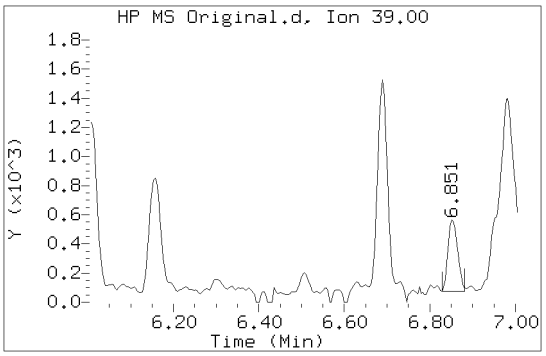
AFTER

MASS
43
AREA
735
HEIGHT
436
29-Jun-2024
12:15
s
zaid



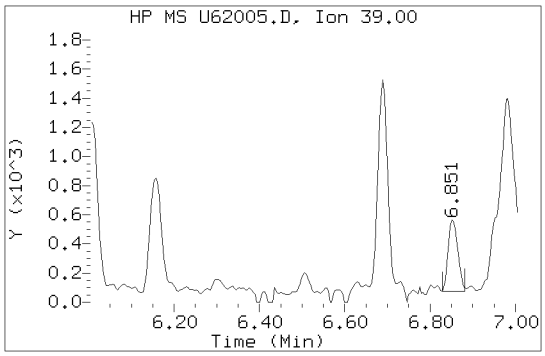
BEFORE

MASS
39
AREA
775
HEIGHT
488
29-Jun-2024
12:15
s
zaid



AFTER

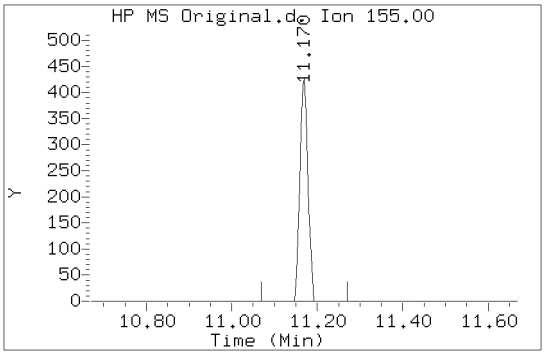
MASS
39
AREA
775
HEIGHT
488
29-Jun-2024
12:15
s
zaid



1,2-Dibromo-3-Chloropropane (96-12-8)

BEFORE

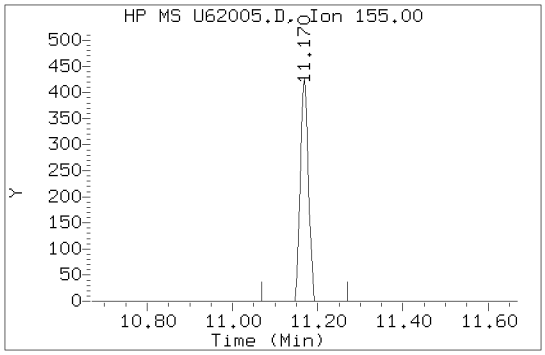
MASS
155
AREA
571
HEIGHT
426
29-Jun-2024
12:15
s
zaid



Reason Code:

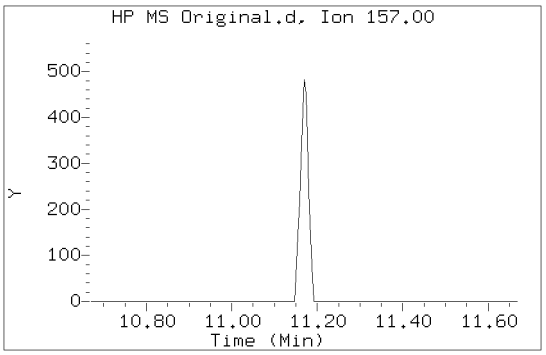
AFTER

MASS
155
AREA
571
HEIGHT
426
29-Jun-2024
12:15
s
zaid



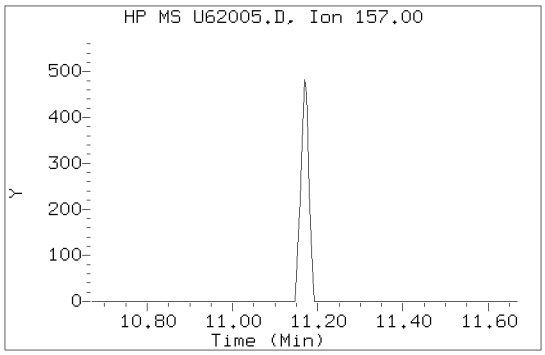
BEFORE

MASS
157
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
157
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



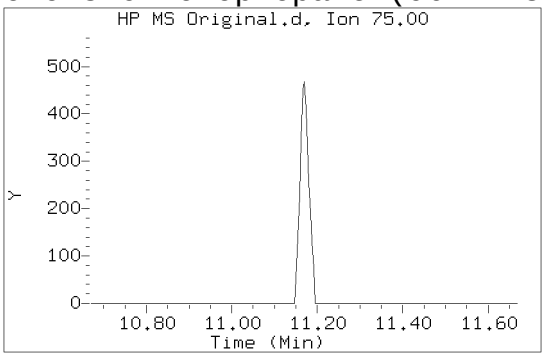
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62005.D
Inj Date : 20-JUN-2024 12:27
InstruID : VOA9.i
LabSampID : VSTD002

1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

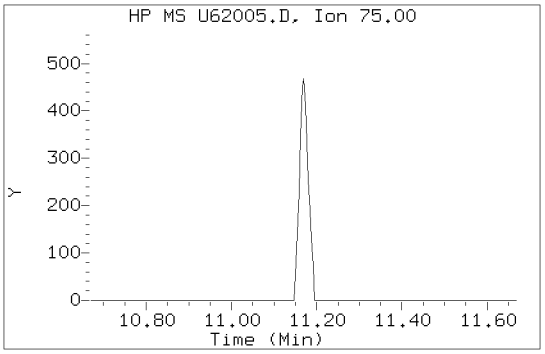
BEFORE

MASS
75
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
75
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid

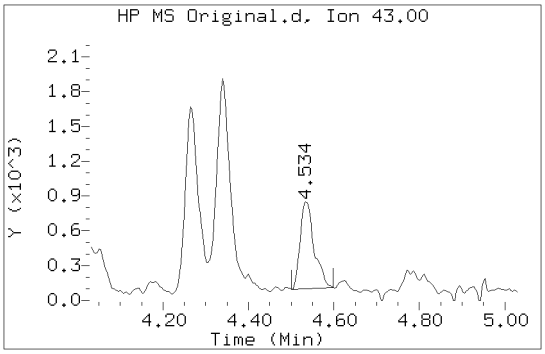


Ethyl Acetate (141-78-6)

Reason Code:

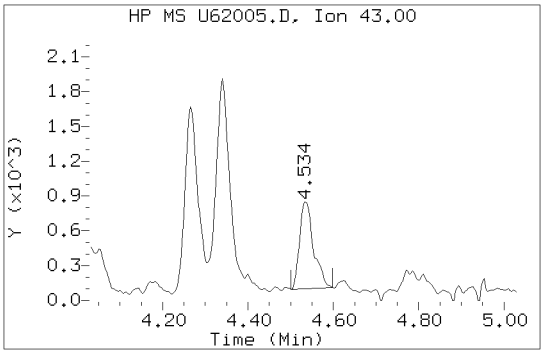
BEFORE

MASS
43
AREA
1723
HEIGHT
754
29-Jun-2024
12:15
s
zaid



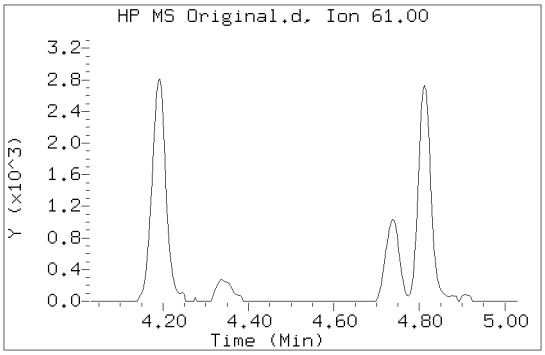
AFTER

MASS
43
AREA
1723
HEIGHT
754
29-Jun-2024
12:15
s
zaid



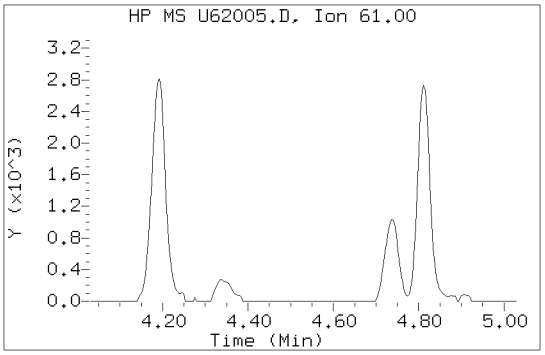
BEFORE

MASS
61
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



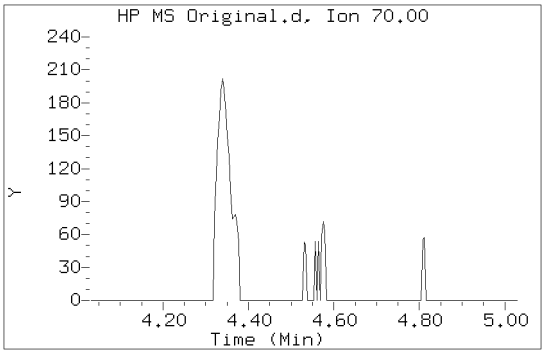
AFTER

MASS
61
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



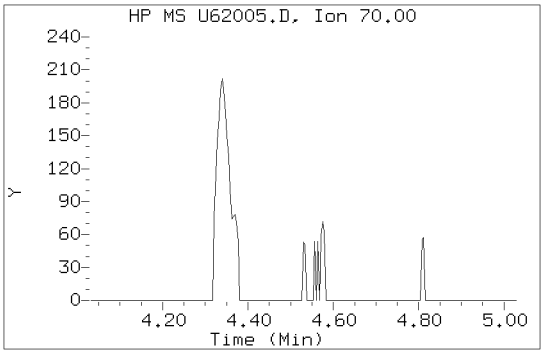
BEFORE

MASS
70
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
70
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



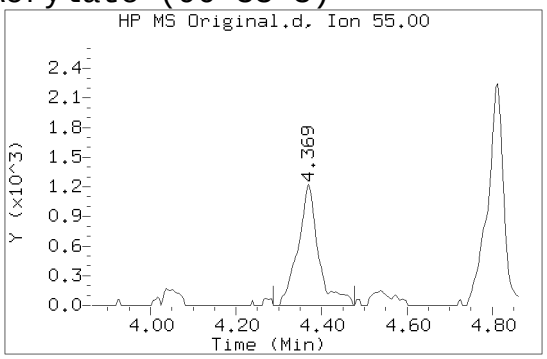
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62005.D
Inj Date : 20-JUN-2024 12:27
InstruID : VOA9.i
LabSampID : VSTD002

Methyl Acrylate (96-33-3)

Reason Code:

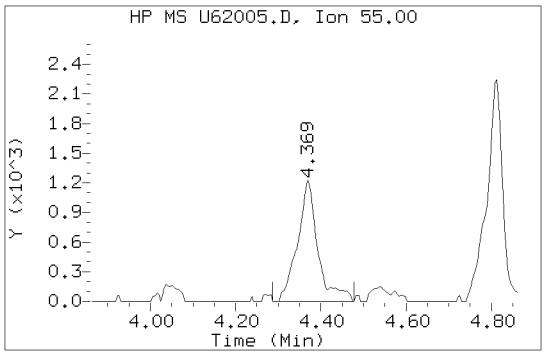
BEFORE

MASS
55
AREA
4100
HEIGHT
1225
29-Jun-2024
12:15
s
zaid



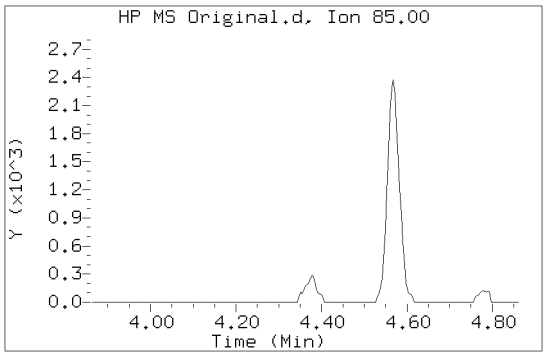
AFTER

MASS
55
AREA
4100
HEIGHT
1225
29-Jun-2024
12:15
s
zaid



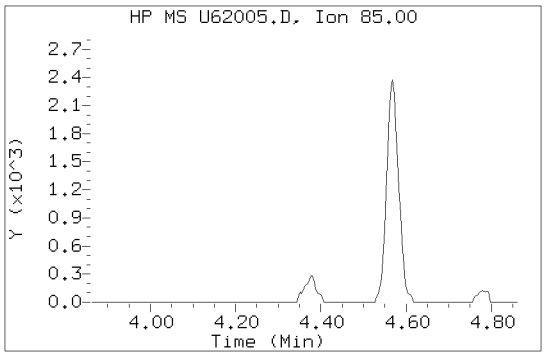
BEFORE

MASS
85
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
85
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid

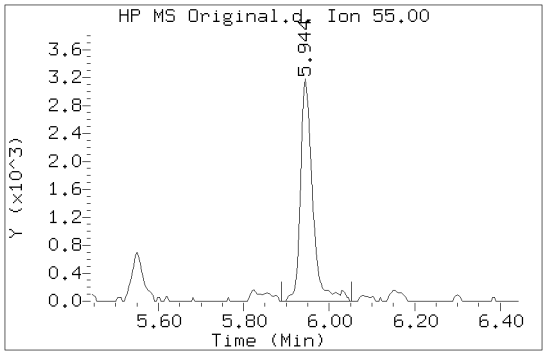


Ethyl Acrylate (140-88-5)

Reason Code:

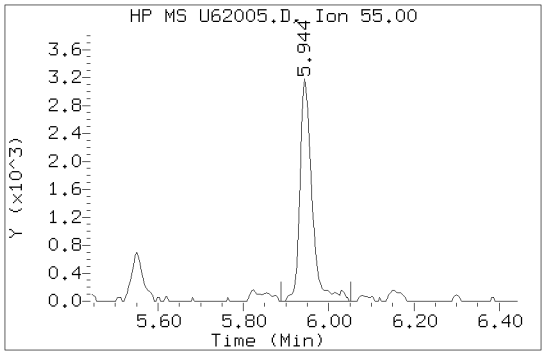
BEFORE

MASS
55
AREA
6440
HEIGHT
3181
29-Jun-2024
12:15
s
zaid



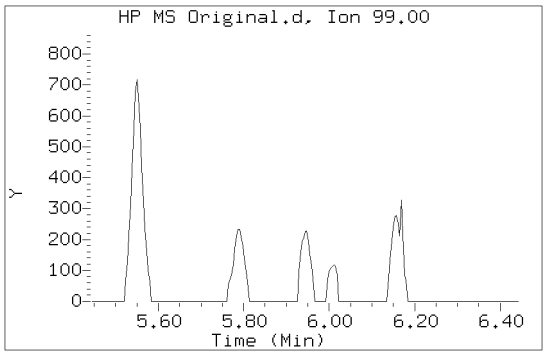
AFTER

MASS
55
AREA
6440
HEIGHT
3181
29-Jun-2024
12:15
s
zaid



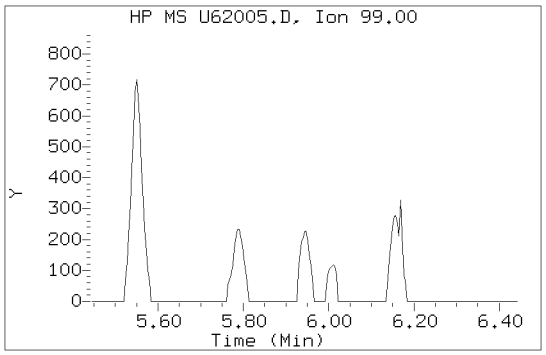
BEFORE

MASS
99
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
99
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid

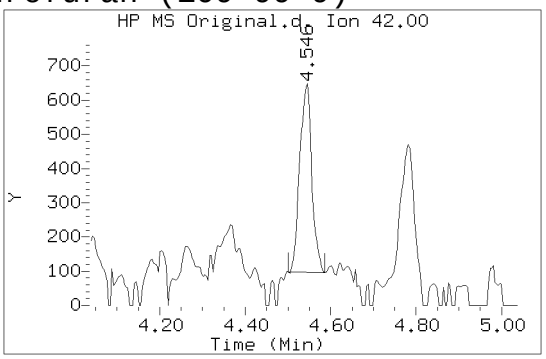


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62005.D
Inj Date : 20-JUN-2024 12:27
InstruID : VOA9.i
LabSampID : VSTD002

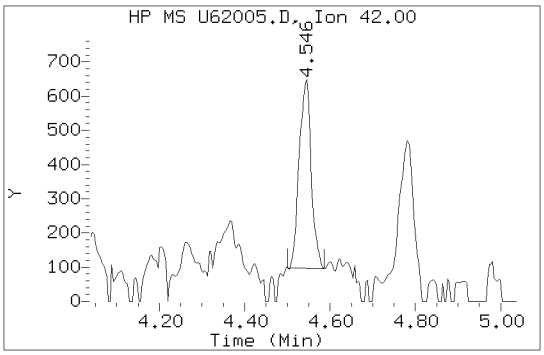
Tetrahydrofuran (109-99-9)

Reason Code:

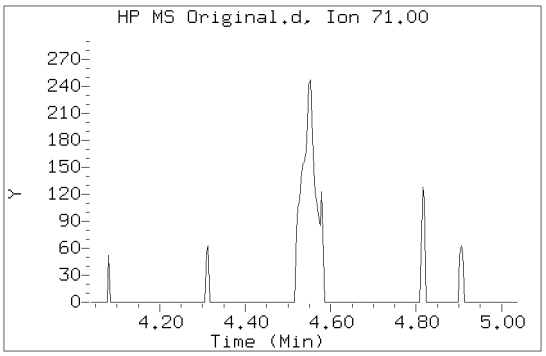
BEFORE
MASS
42
AREA
1103
HEIGHT
552
29-Jun-2024
12:15
s
zaid



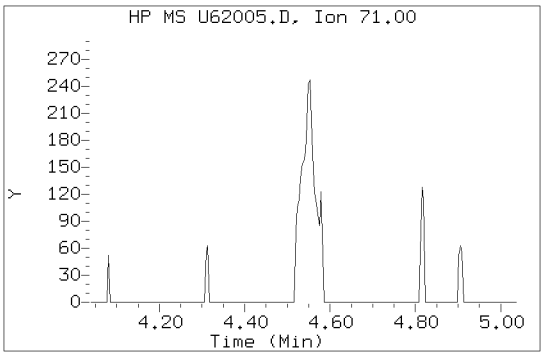
AFTER
MASS
42
AREA
1103
HEIGHT
552
29-Jun-2024
12:15
s
zaid



BEFORE
MASS
71
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



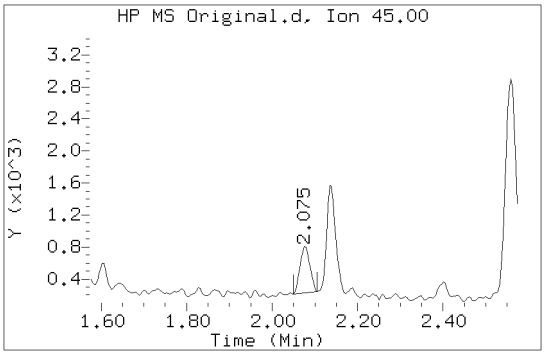
AFTER
MASS
71
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



Ethanol (64-17-5)

Reason Code:

BEFORE
MASS
45
AREA
951
HEIGHT
577
29-Jun-2024
12:15
s
zaid



AFTER
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951
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577
29-Jun-2024
12:15
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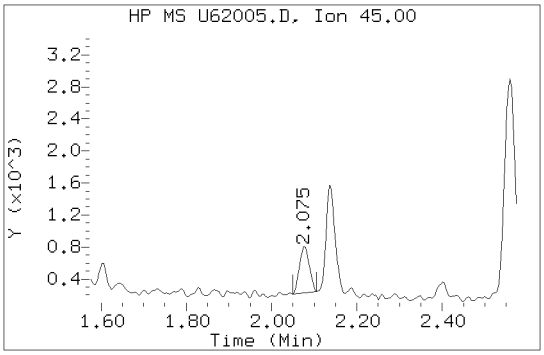
zaid



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46
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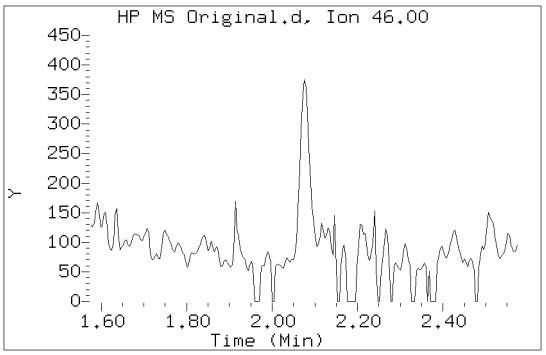

AFTER
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46
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HEIGHT
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12:15
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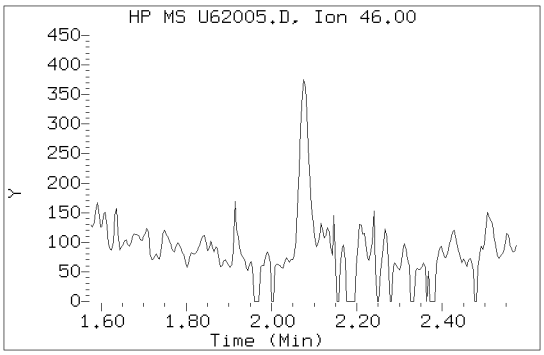
zaid



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Inj Date : 20-JUN-2024 12:27
InstruID : VOA9.i
LabSampID : VSTD002

Ethanol (64-17-5)

Reason Code:

BEFORE

MASS
43
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12:15
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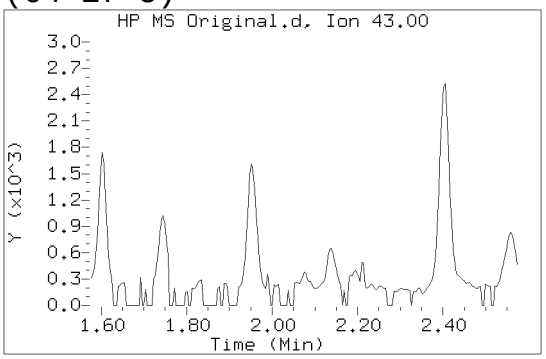
zaid



AFTER

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HEIGHT
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29-Jun-2024
12:15
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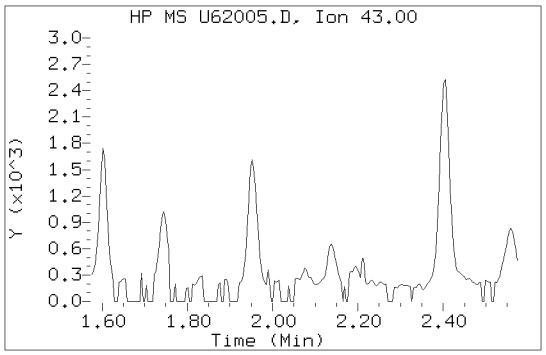

tert-Butyl formate (762-75-4)

Reason Code:

BEFORE

MASS
59
AREA
6189
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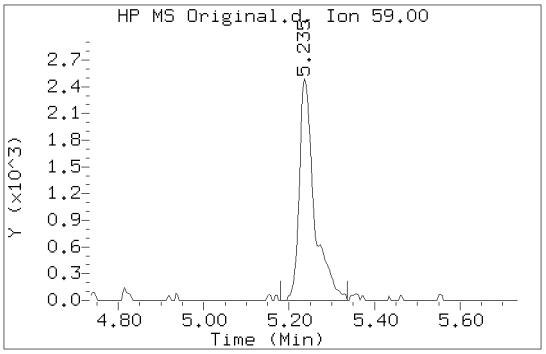
2490
29-Jun-2024
12:15
s
zaid



AFTER

MASS
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AREA
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HEIGHT
2490
29-Jun-2024
12:15
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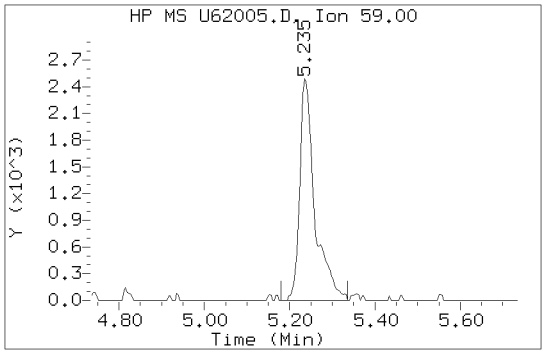

BEFORE

MASS
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HEIGHT
0
29-Jun-2024
12:15
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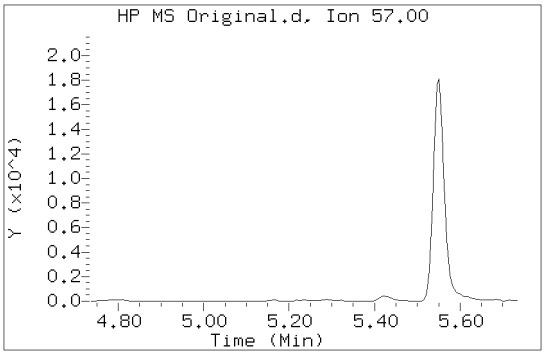
zaid



AFTER

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HEIGHT
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29-Jun-2024
12:15
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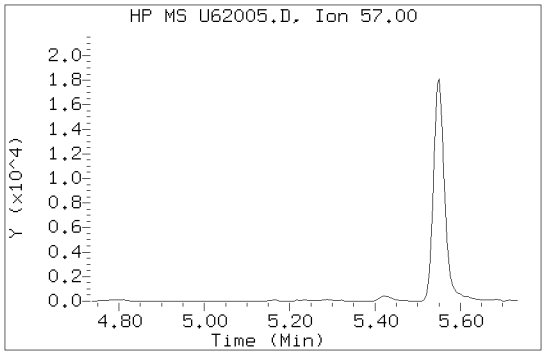

BEFORE

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29-Jun-2024
12:15
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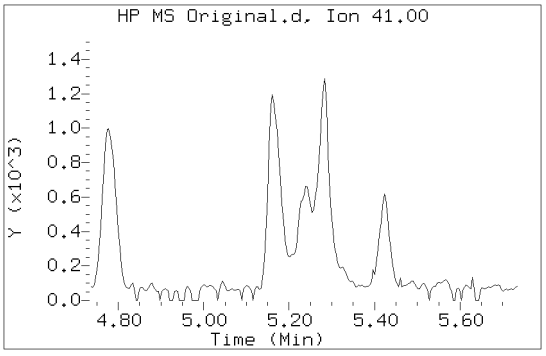

AFTER

MASS
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AREA
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HEIGHT
0
29-Jun-2024
12:15
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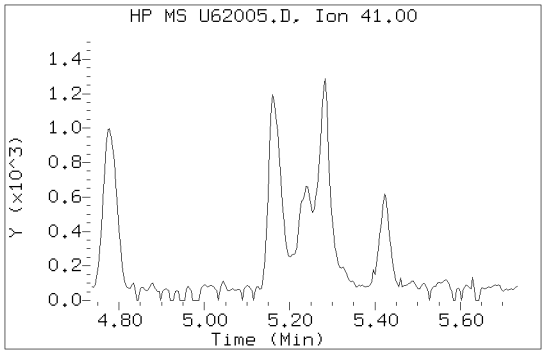
zaid



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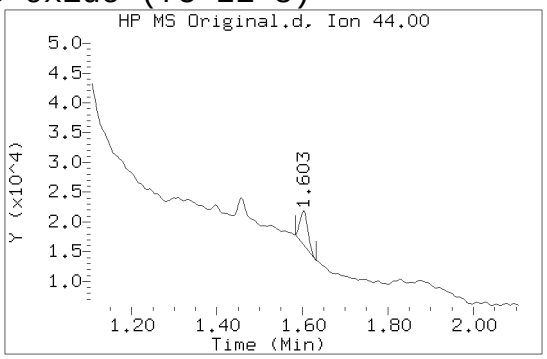
Inj Date : 20-JUN-2024 12:27
InstruID : VOA9.i
LabSampID : VSTD002

Ethylene oxide (75-21-8)

Reason Code:

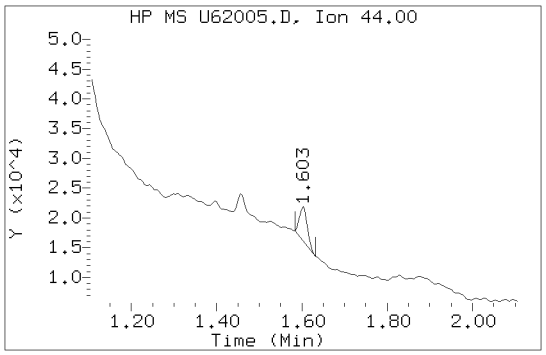
BEFORE

MASS
44
AREA
7361
HEIGHT
5698
29-Jun-2024
12:15
s
zaid



AFTER

MASS
44
AREA
7361
HEIGHT
5698
29-Jun-2024
12:15
s
zaid

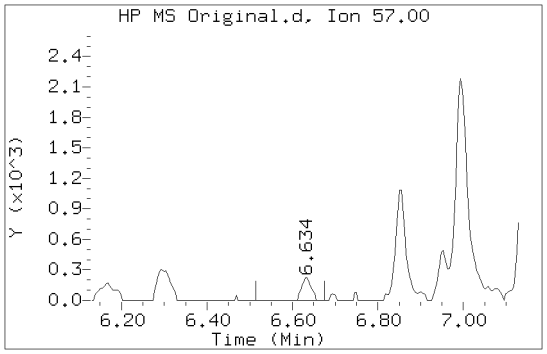


Epichlorohydrin (106-89-8)

Reason Code:

BEFORE

MASS
57
AREA
356
HEIGHT
225
29-Jun-2024
12:15
s
zaid



AFTER

MASS
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AREA
356
HEIGHT
225
29-Jun-2024
12:15
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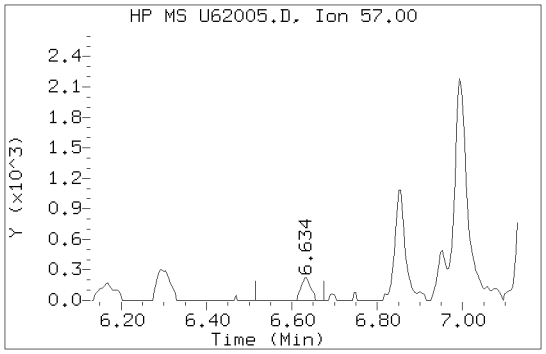
zaid



BEFORE

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49
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HEIGHT
0
29-Jun-2024
12:15
s
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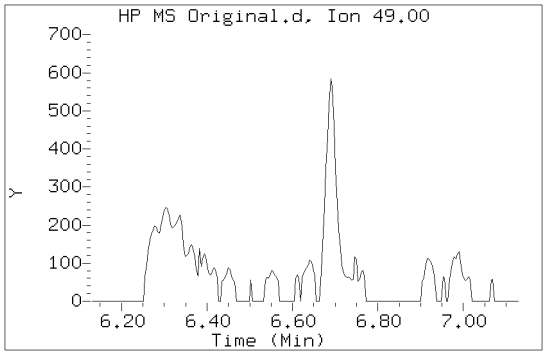

AFTER

MASS
49
AREA
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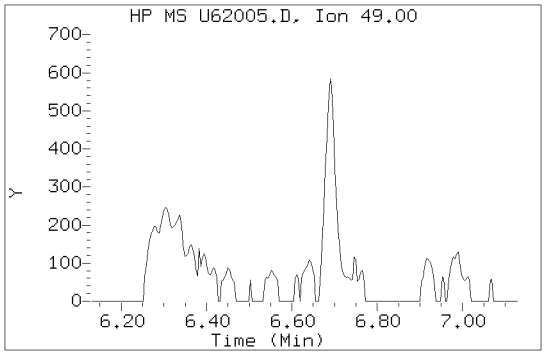
HEIGHT
0
29-Jun-2024
12:15
s
zaid



n-Amyl acetate (628-63-7)

Reason Code:

BEFORE

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AREA
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HEIGHT
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29-Jun-2024
12:15
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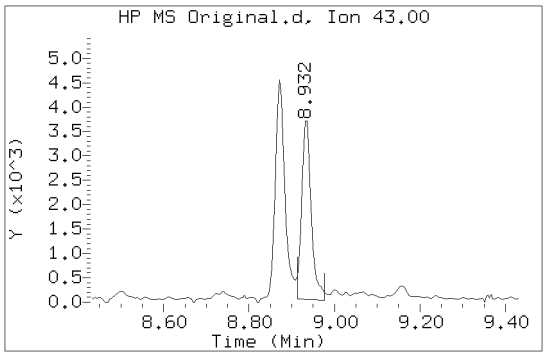

AFTER

MASS
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AREA
5895
HEIGHT
3656
29-Jun-2024
12:15
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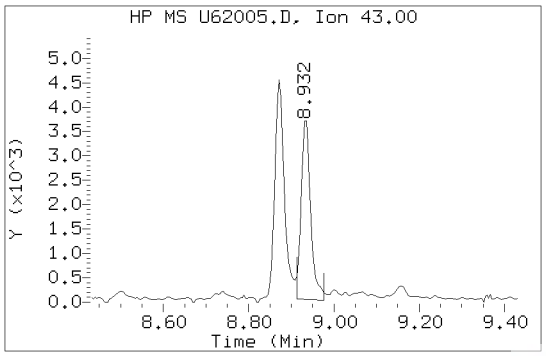
zaid



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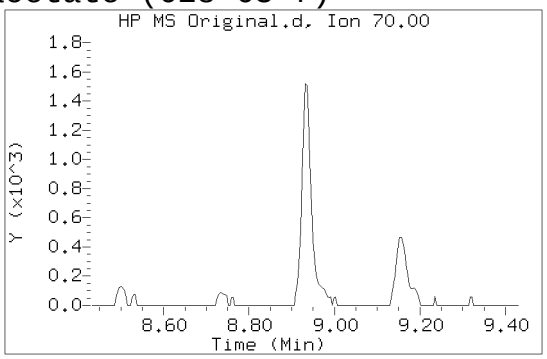
Inj Date : 20-JUN-2024 12:27
InstruID : VOA9.i
LabSampID : VSTD002

n-Amyl acetate (628-63-7)

Reason Code:

BEFORE

MASS
70
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
70
AREA
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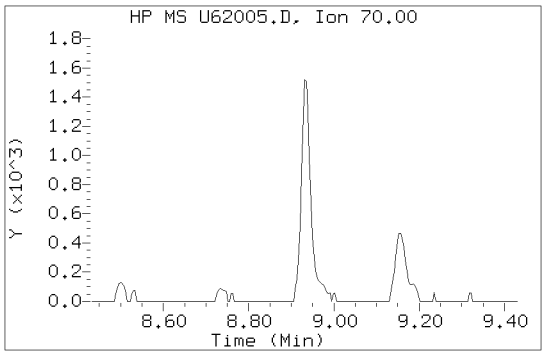
HEIGHT
0
29-Jun-2024
12:15
s
zaid



BEFORE

MASS
87
AREA
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HEIGHT
0
29-Jun-2024
12:15
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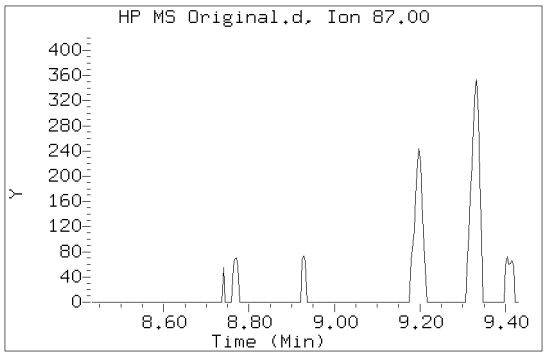
zaid



AFTER

MASS
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AREA
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HEIGHT
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29-Jun-2024
12:15
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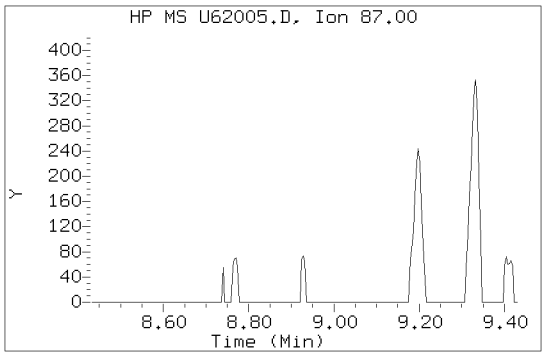
zaid



Acetaldehyde (75-07-0)

Reason Code:

BEFORE

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HEIGHT
3083
29-Jun-2024
12:15
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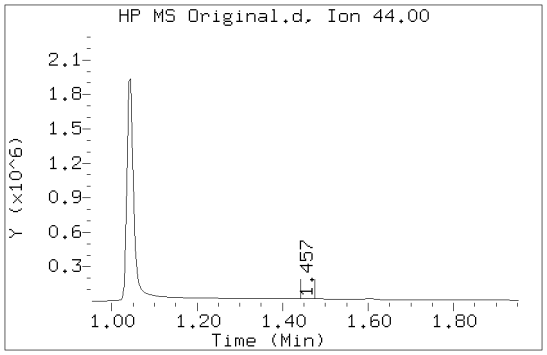

AFTER

MASS
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AREA
3065
HEIGHT
3083
29-Jun-2024
12:15
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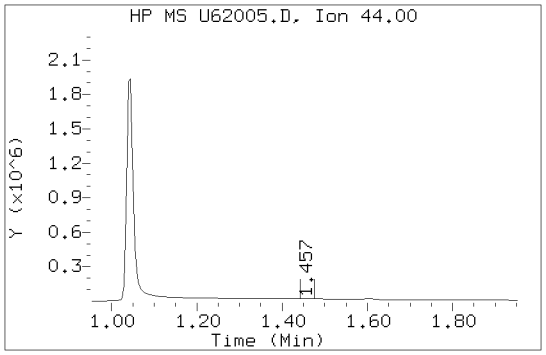
zaid



BEFORE

MASS
43
AREA
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HEIGHT
0
29-Jun-2024
12:15
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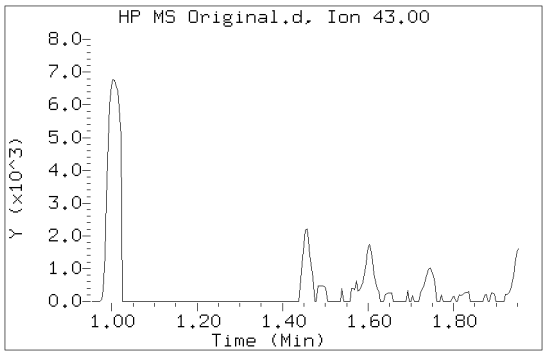
zaid



AFTER

MASS
43
AREA
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HEIGHT
0
29-Jun-2024
12:15
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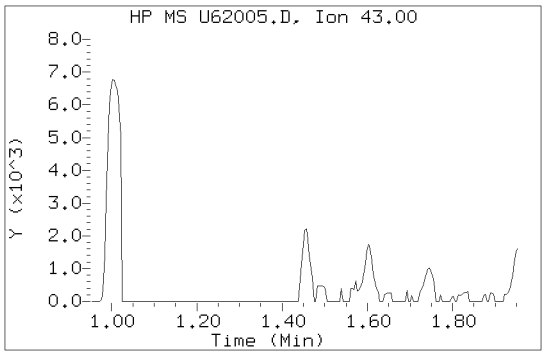
zaid



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Inj Date : 20-JUN-2024 12:27
InstruID : VOA9.i
LabSampID : VSTD002

Acetaldehyde (75-07-0)

Reason Code:

BEFORE

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42
AREA
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HEIGHT
0
29-Jun-2024
12:15
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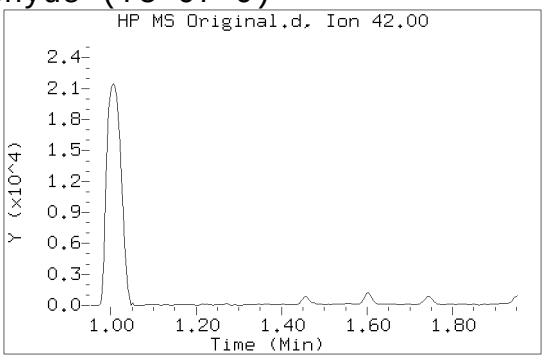
zaid



AFTER

MASS
42
AREA
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HEIGHT
0
29-Jun-2024
12:15
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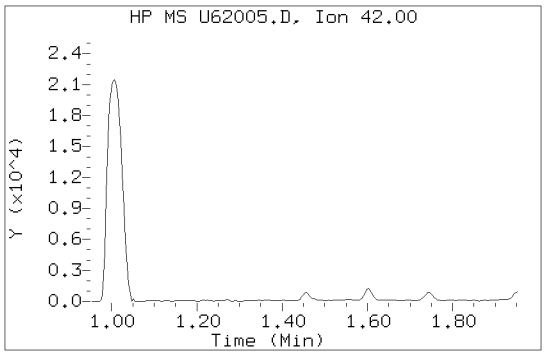
zaid



Isobutylene (115-11-7)

Reason Code:

BEFORE

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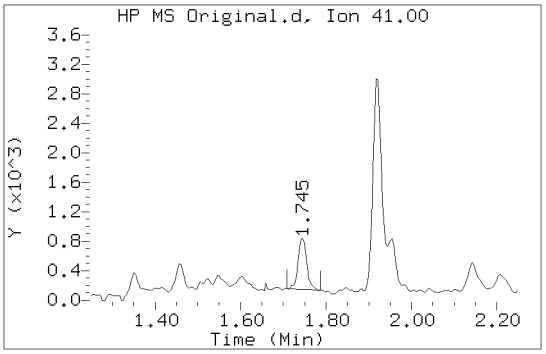
41
AREA
1008
HEIGHT
688
29-Jun-2024
12:15
s
zaid



AFTER

MASS
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HEIGHT
688
29-Jun-2024
12:15
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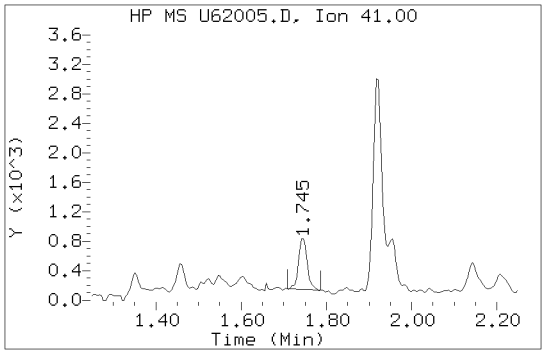
zaid



BEFORE

MASS
56
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HEIGHT
0
29-Jun-2024
12:15
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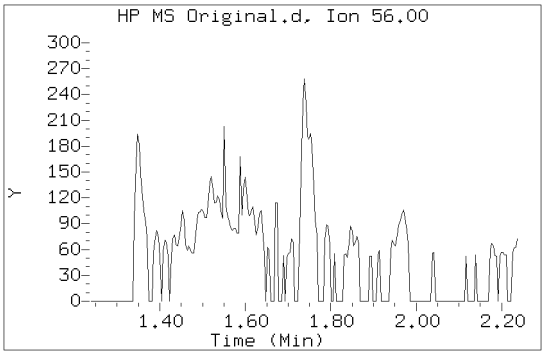
zaid



AFTER

MASS
56
AREA
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HEIGHT
0
29-Jun-2024
12:15
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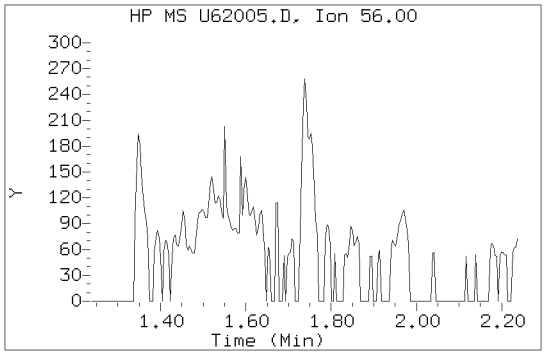
zaid



BEFORE

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84
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HEIGHT
0
29-Jun-2024
12:15
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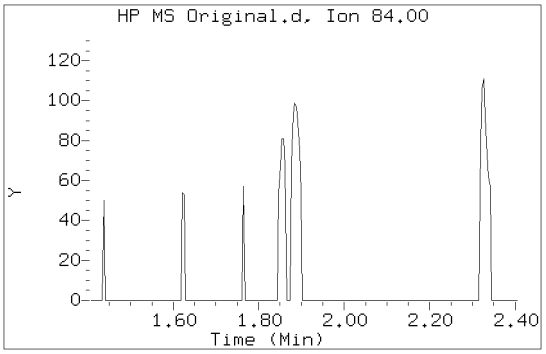
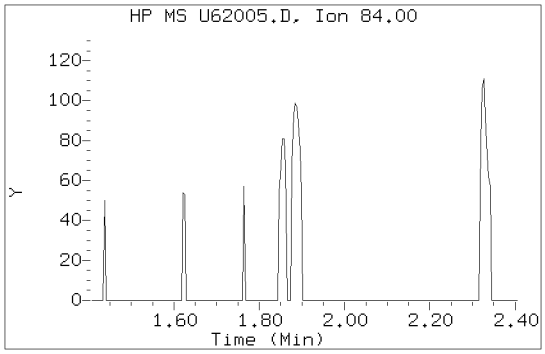


AFTER

MASS
84
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



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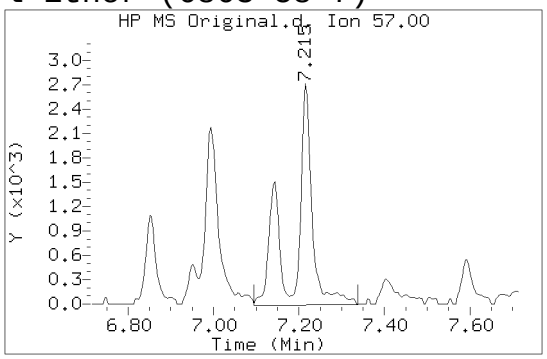
Inj Date : 20-JUN-2024 12:27
InstruID : VOA9.i
LabSampID : VSTD002

sec-Butyl Ether (6863-58-7)

Reason Code:

BEFORE

MASS
57
AREA
7764
HEIGHT
2727
29-Jun-2024
12:15
s
zaid



AFTER

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AREA
7764
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2727
29-Jun-2024
12:15
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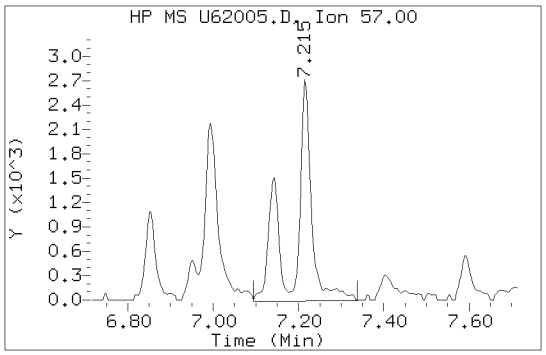
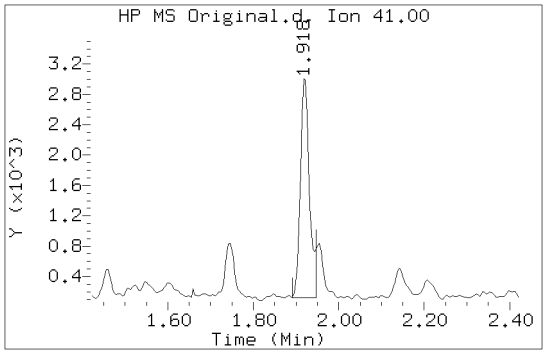


2-Chloropropene (557-98-2)

Reason Code:

BEFORE

MASS
41
AREA
4413
HEIGHT
2889
29-Jun-2024
12:15
s
zaid



AFTER

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AREA
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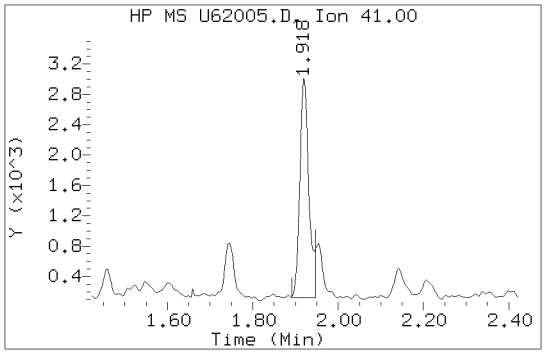
HEIGHT
2889
29-Jun-2024
12:15
s
zaid



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62006.D Page 1
Report Date: 29-Jun-2024 12:15

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62006.D
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Inj Date : 20-JUN-2024 12:49
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\U240620.b\8260C.m
Meth Date : 29-Jun-2024 12:15 VOA9.i Quant Type: ISTD
Cal Date : 20-JUN-2024 12:27 Cal File: U62005.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: NAHSTW7014

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)	235440	50.0000	
2 Dichlorodifluoromethane	85	1.171	1.171	(0.243)	9738	5.00000	5.79(M)
3 Chloromethane	50	1.303	1.303	(0.270)	23869	5.00000	4.90
4 Propionitrile	54	4.343	4.343	(0.901)	10856	50.0000	44.48(a)
5 Vinyl Chloride	62	1.385	1.385	(0.288)	11209	5.00000	5.48(M)
6 Bromomethane	94	1.625	1.625	(0.337)	5361	5.00000	4.99
7 Chloroethane	64	1.708	1.708	(0.354)	7341	5.00000	4.94
8 Trichlorofluoromethane	101	1.899	1.899	(0.394)	12979	5.00000	5.75
9 Acrolein	56	2.266	2.266	(0.470)	1238	10.0000	11.77(aM)
10 Acetone	43	2.416	2.416	(0.501)	8644	10.0000	7.66
11 1,1-Dichloroethene	96	2.337	2.337	(0.485)	7483	5.00000	5.44
12 Isobutyl Alcohol	43	5.288	5.288	(1.097)	21139	100.000	90.94(a)
13 Acetonitrile	39	2.675	2.675	(0.555)	9127	50.0000	41.35(a)
14 Allyl Chloride	41	2.678	2.678	(0.556)	21197	5.00000	4.51(a)
15 Iodomethane	142	2.472	2.472	(0.513)	4981	10.0000	10.28
16 Acrylonitrile	53	3.072	3.072	(0.638)	6082	10.0000	10.13
17 Methylene Chloride	84	2.798	2.798	(0.581)	11392	5.00000	5.33
18 Methyl tert-butyl ether	73	3.083	3.083	(0.640)	19601	5.00000	5.21
19 Carbon Disulfide	76	2.525	2.525	(0.524)	38596	10.0000	10.19
20 trans-1,2-Dichloroethene	96	3.061	3.061	(0.635)	8011	5.00000	5.02

21 Vinyl Acetate	43	4.347	4.347 (0.902)	8018	10.0000	9.47(M)
22 1,1-Dichloroethane	63	3.514	3.514 (0.729)	15421	5.00000	4.95

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62006.D Page 2
Report Date: 29-Jun-2024 12:15

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	3.616	3.616	(0.750)	12911	5.00000	5.30
	24 2-Butanone	43	4.272	4.272	(0.886)	7854	10.0000	9.75
	25 Methacrylonitrile	41	4.500	4.500	(0.934)	4226	5.00000	4.84(a)
	26 2,2-Dichloropropane	77	4.182	4.182	(0.868)	10989	5.00000	5.57
	27 cis-1,2-Dichloroethene	96	4.200	4.200	(0.872)	9100	5.00000	5.01
	28 Chloroform	83	4.575	4.575	(0.949)	15346	5.00000	4.72
	29 Bromochloromethane	128	4.470	4.470	(0.928)	4848	5.00000	5.14
$	30 Dibromofluoromethane	113	4.751	4.751	(0.986)	7835	5.00000	5.00
	31 1,1,1-Trichloroethane	97	4.744	4.744	(0.984)	11492	5.00000	5.25
	32 1,1-Dichloropropene	75	4.924	4.924	(0.887)	10630	5.00000	4.99(M)
	33 1,2-Dichloroethane	62	5.179	5.179	(0.933)	12903	5.00000	4.68
	34 Carbon Tetrachloride	117	4.913	4.913	(0.885)	8999	5.00000	5.04(M)
$	35 1,2-Dichloroethane-d4	65	5.100	5.100	(1.058)	10343	5.00000	5.18
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	349034	50.0000	
	37 Benzene	78	5.141	5.141	(0.926)	34656	5.00000	4.82
	38 Trichloroethene	130	5.790	5.790	(1.043)	8866	5.00000	5.08
	39 Bromodichloromethane	83	6.277	6.277	(1.130)	9345	5.00000	4.60(a)
	40 Methyl Methacrylate	41	5.827	5.827	(1.209)	2768	5.00000	4.49(a)
	41 2-Chloroethylvinyl ether	63	6.577	6.577	(1.184)	225	10.0000	13.73(M)
	42 1,2-Dichloropropane	63	6.011	6.011	(1.082)	9205	5.00000	4.83(a)
	43 2-Nitropropane	43	6.510	6.510	(1.351)	1402	5.00000	3.76(aM)
	44 Dibromomethane	93	6.120	6.120	(1.102)	5487	5.00000	4.94(a)
	45 4-Methyl-2-Pentanone	43	6.854	6.854	(0.837)	16328	10.0000	9.37
	46 cis-1,3-Dichloropropene	75	6.693	6.693	(1.205)	10122	5.00000	4.26(a)
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	316123	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	29821	5.00000	4.86(a)
	49 Ethyl Methacrylate	69	7.289	7.289	(1.312)	9665	5.00000	4.36(a)
	50 Toluene	91	6.982	6.982	(0.853)	35567	5.00000	4.94(a)
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	7790	5.00000	5.67
	52 2-Hexanone	43	7.218	7.218	(0.882)	14994	10.0000	12.04
	53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	6986	5.00000	5.01
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	14375	5.00000	4.91(a)
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	6171	5.00000	4.24(a)
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	7122	5.00000	5.28
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	7426	5.00000	4.83(a)
	58 1-Chlorohexane	55	8.193	8.193	(1.475)	9239	5.00000	6.24
	59 Chlorobenzene	112	8.212	8.212	(1.003)	24286	5.00000	4.85(a)
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	7220	5.00000	4.66(a)
	61 Ethylbenzene	106	8.305	8.305	(1.015)	10793	5.00000	4.84(a)
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	24956	10.0000	9.38(a)
	63 o-Xylene	106	8.748	8.748	(1.069)	12227	5.00000	4.66(a)
	64 Styrene	104	8.763	8.763	(1.071)	19523	5.00000	4.45(a)
	66 Bromoform	173	8.920	8.920	(1.090)	3703	5.00000	4.75(Ta)
	67 Isopropylbenzene	105	9.062	9.062	(1.107)	32202	5.00000	4.95(a)
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	11238	5.00000	5.01
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	11651	5.00000	4.83(a)
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	171538	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	10668	5.00000	5.67
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	1932	5.00000	4.37(a)
	73 n-Propylbenzene	91	9.415	9.415	(0.926)	35088	5.00000	4.73(a)
	74 Bromobenzene	156	9.321	9.321	(0.916)	9708	5.00000	4.81(a)
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	19300	5.00000	4.99(a)

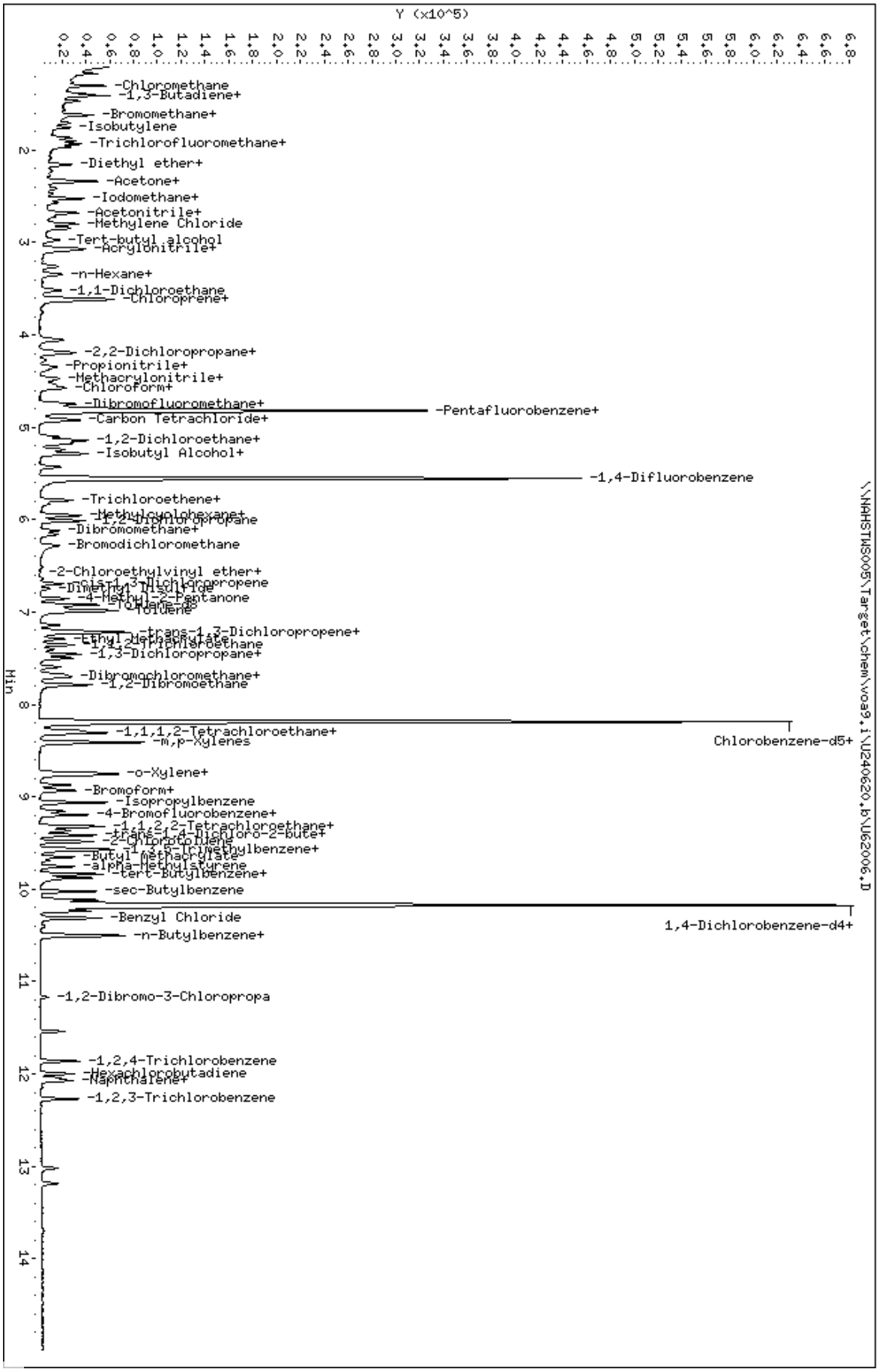
76	2-Chlorotoluene	91	9.482	9.482 (0.932)	25019	5.00000	4.98(a)
77	4-Chlorotoluene	91	9.576	9.576 (0.941)	26961	5.00000	4.73(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.838	9.838	(0.967)	22592	5.00000	4.99(a)
79	1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	23144	5.00000	4.23(aM)
81	sec-Butylbenzene	105	10.022	10.022	(0.985)	28993	5.00000	4.81(a)
82	p-Isopropyltoluene	119	10.146	10.146	(0.997)	22757	5.00000	5.44
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	17997	5.00000	4.85(a)
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	19458	5.00000	4.91(a)
86	Benzyl Chloride	91	10.311	10.311	(1.260)	34406	5.00000	7.76
87	n-Butylbenzene	91	10.494	10.494	(1.032)	22522	5.00000	5.61
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	17903	5.00000	4.84(a)
89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	1208	5.00000	4.96(a)
90	1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	10011	5.00000	4.48(a)
91	Hexachlorobutadiene	225	12.001	12.001	(1.180)	4937	5.00000	4.98(a)
92	Naphthalene	128	12.073	12.073	(1.187)	17811	5.00000	5.24
93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	9533	5.00000	4.66(a)
146	Methyl acetate	43	2.720	2.720	(0.564)	7064	5.00000	3.51(a)
138	Freon TF	101	2.337	2.337	(0.485)	7208	5.00000	5.23
141	Cyclohexane	56	4.785	4.785	(0.993)	15051	5.00000	5.79
142	Tetrahydrofuran	42	4.545	4.545	(0.943)	2459	10.0000	8.81
147	Methylcyclohexane	55	5.951	5.951	(1.072)	16598	5.00000	4.47(a)
135	1,4-Dioxane	88	6.168	6.168	(1.280)	2383	100.000	103.05
132	n-Butanol	56	5.831	5.831	(1.210)	4104	100.000	97.79(a)
136	n-Hexane	57	3.346	3.346	(0.694)	8771	5.00000	5.81
139	Diethyl ether	59	2.150	2.150	(0.446)	5732	5.00000	4.13(a)
148	Tert-butyl alcohol	59	2.975	2.975	(0.617)	14781	100.000	98.48
149	Isopropyl alcohol	45	2.570	2.570	(0.533)	10801	100.000	90.46(T)
156	Diisopropyl ether	45	3.623	3.623	(0.752)	25524	5.00000	4.49(Ta)
162	Butyl acrylate	55	8.736	8.736	(1.067)	12122	5.00000	4.16(a)
164	Dicyclopentadiene	66	10.202	10.202	(1.003)	35810	5.00000	4.82(a)
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	20377	5.00000	4.15(a)
167	Ethanol	45	2.086	2.086	(0.433)	1968	100.000	77.53
172	tert-Butyl formate	59	5.243	5.243	(1.088)	11690	10.0000	10.09(M)
151	4-Methyl-2-pentanol	45	7.218	7.218	(1.300)	40067	100.000	83.23
140	1,3-Butadiene	54	1.408	1.408	(0.292)	11141	5.00000	5.51
182	Epichlorohydrin	57	6.630	6.630	(1.194)	777	20.0000	18.19(M)
M 94	1,2-Dichloroethylene (total)	96				17111	10.0000	(a)
130	Ethyl Acetate	43	4.534	4.534	(0.941)	3383	5.00000	4.22(aM)
131	Methyl Acrylate	55	4.373	4.373	(0.907)	8952	5.00000	4.58(a)
189	n-Butyl acetate	43	7.705	7.705	(0.941)	12041	5.00000	4.77(a)
134	Cyclohexanone	55	9.156	9.156	(0.900)	8867	100.000	94.58(a)
185	Isoprene	39	2.161	2.161	(0.449)	1836	5.00000	5.37
188	Isopropyl acetate	43	5.288	5.288	(0.952)	21512	5.00000	4.60(a)
150	Allyl alcohol	57	3.346	3.346	(0.694)	8771	100.000	116.20
194	Acetaldehyde	44	1.468	1.468	(0.305)	9309	20.0000	23.65(M)
200	Dimethyl Disulfide	94	6.746	6.746	(0.824)	3175	5.00000	4.27(a)
202	Isobutylene	41	1.756	1.756	(0.364)	3625	5.00000	5.80(M)
133	Ethyl Acrylate	55	5.951	5.951	(1.235)	16566	5.00000	4.47(a)
163	Butyl methacrylate	41	9.651	9.651	(0.949)	7663	5.00000	3.85(a)
159	Propylene oxide	43	2.206	2.206	(0.458)	1225	10.0000	11.38
178	Ethylene oxide	44	1.614	1.614	(0.335)	17289	10.0000	9.89(M)
203	2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	5299	5.00000	4.17(a)
204	Tetrahydrothiophene	60	7.675	7.675	(0.938)	7905	5.00000	4.40(aA)
205	sec-Butyl Ether	57	7.218	7.218	(0.882)	15623	5.00000	4.42(aAM)

187 n-Amyl acetate	43	8.931	8.931 (1.091)	13473	5.00000	4.81(aM)
206 2-Chloropropene	41	1.932	1.932 (0.401)	11837	5.00000	4.89(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: VSTD005
Sample Info: VSTD005;VSTD005;1;5
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: TS
Column diameter: 0.18

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Inj Date : 20-JUN-2024 12:49
InstruID : VOA9.i
LabSampID : VSTD005

Dichlorodifluoromethane (75-71-8)

Reason Code:

BEFORE

MASS
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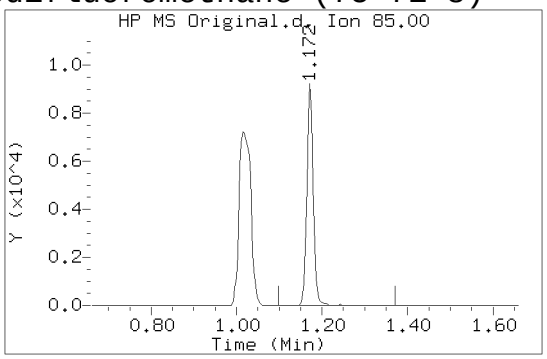
9738
HEIGHT
9223
29-Jun-2024
12:15
s
zaid



AFTER

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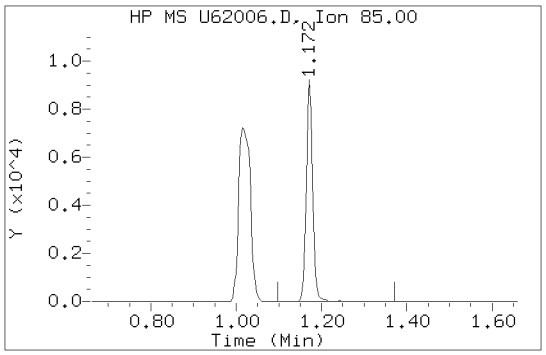

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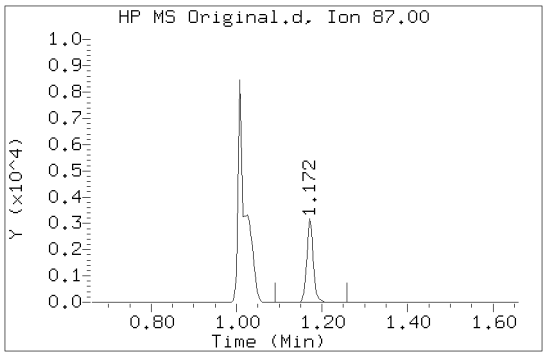

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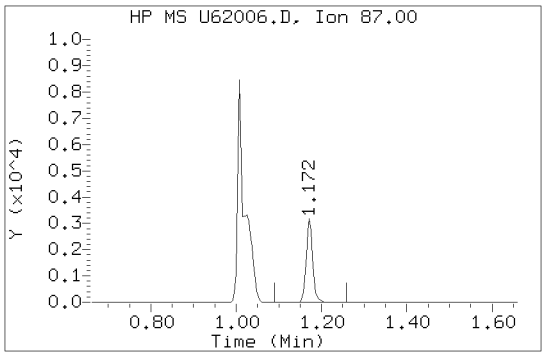

Vinyl Chloride (75-01-4)

Reason Code:

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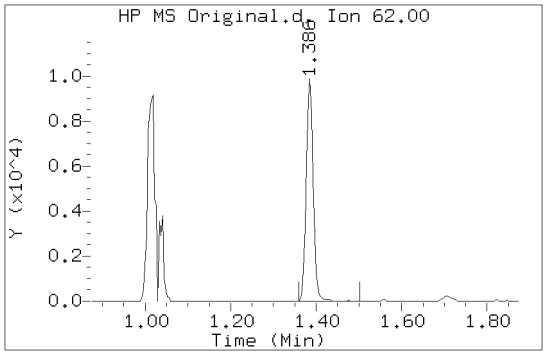

AFTER

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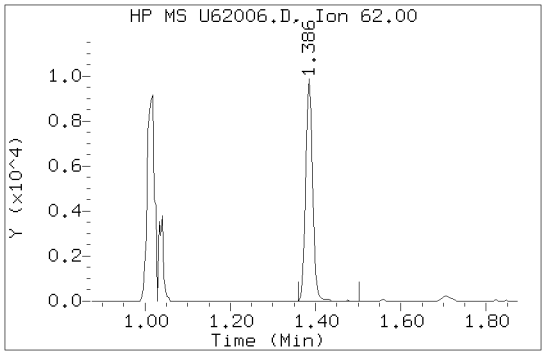

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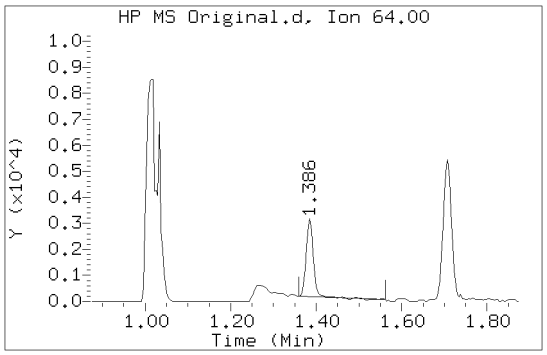

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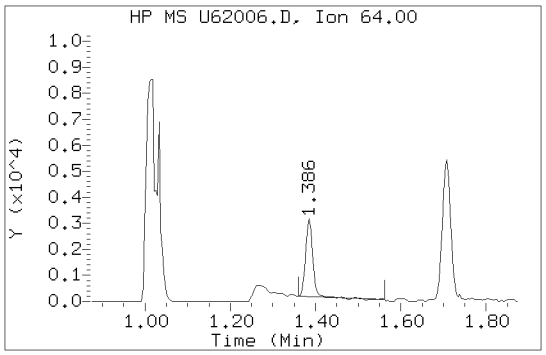

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Inj Date : 20-JUN-2024 12:49
InstruID : VOA9.i
LabSampID : VSTD005

1,1-Dichloropropene (563-58-6)

Reason Code:

BEFORE

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HEIGHT
5650
29-Jun-2024
12:15
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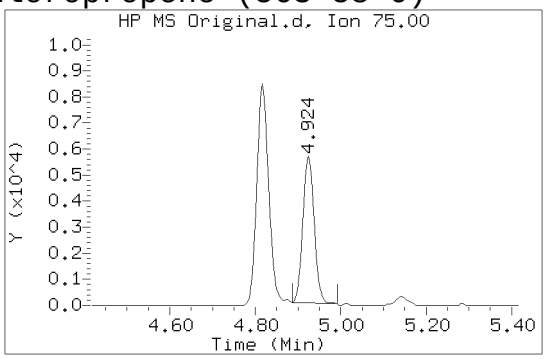
zaid



AFTER

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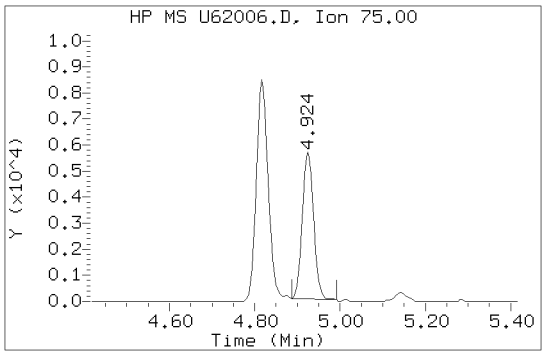

BEFORE

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706
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12:15
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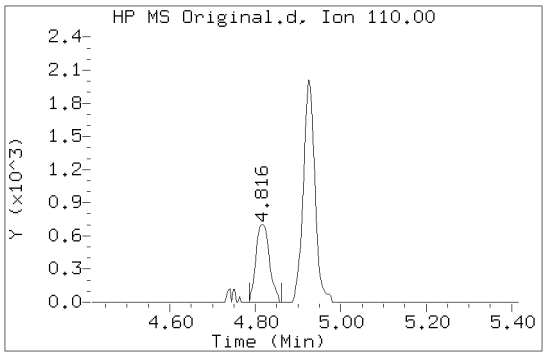

AFTER

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29-Jun-2024
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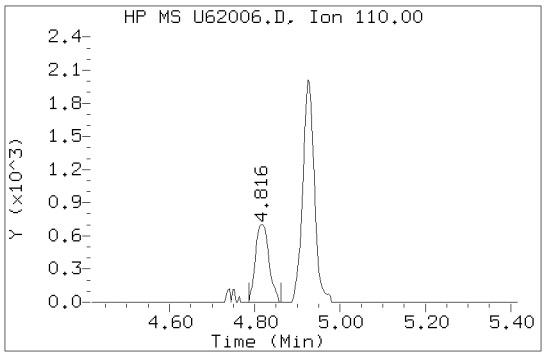
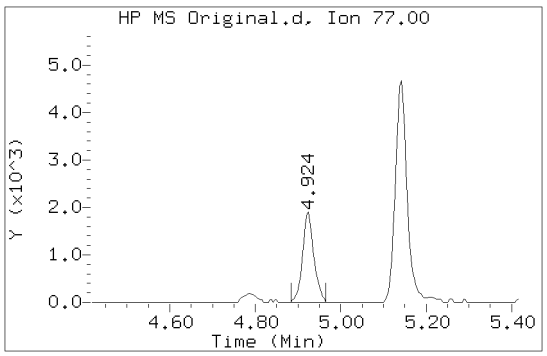
s
zaid



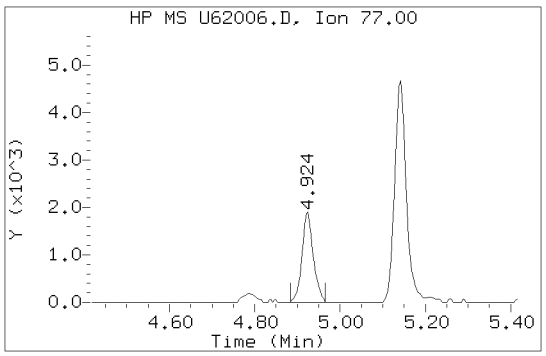
BEFORE

MASS
77
AREA
3576
HEIGHT
1903
29-Jun-2024
12:15
s
zaid



AFTER

MASS
77
AREA
3576
HEIGHT
1903
29-Jun-2024
12:15
s
zaid

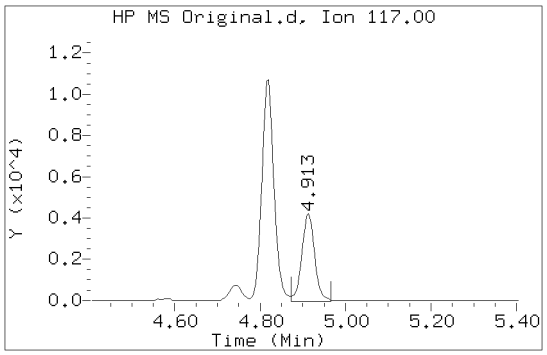


Carbon Tetrachloride (56-23-5)

Reason Code:

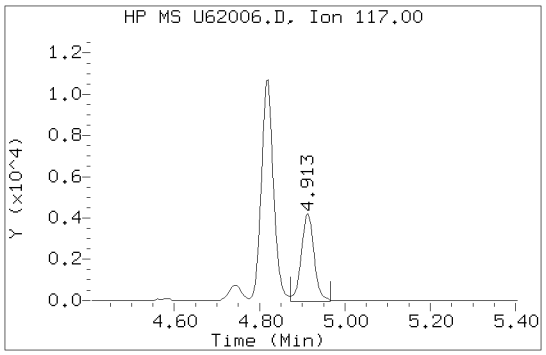
BEFORE

MASS
117
AREA
8999
HEIGHT
4266
29-Jun-2024
12:15
s
zaid



AFTER

MASS
117
AREA
8999
HEIGHT
4266
29-Jun-2024
12:15
s
zaid



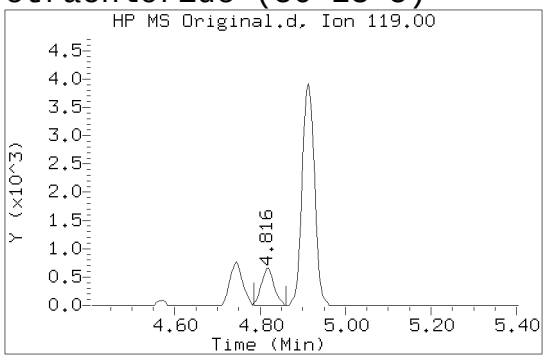
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62006.D
Inj Date : 20-JUN-2024 12:49
InstruID : VOA9.i
LabSampID : VSTD005

Carbon Tetrachloride (56-23-5)

Reason Code:

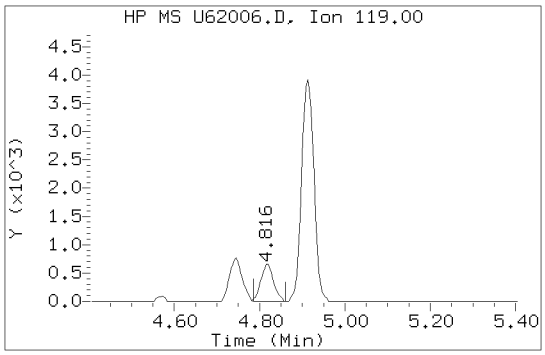
BEFORE

MASS
119
AREA
1350
HEIGHT
652
29-Jun-2024
12:15
s
zaid



AFTER

MASS
119
AREA
1350
HEIGHT
652
29-Jun-2024
12:15
s
zaid

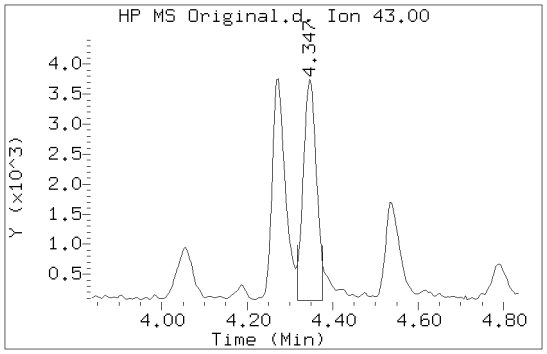


Vinyl Acetate (108-05-4)

Reason Code:

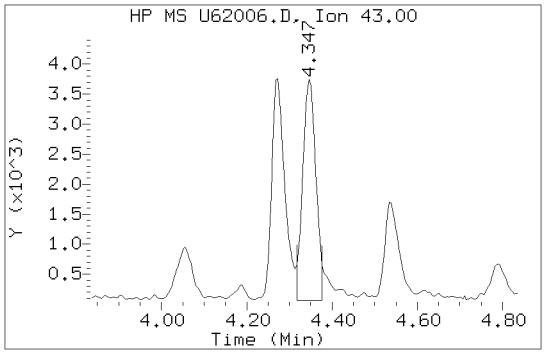
BEFORE

MASS
43
AREA
8018
HEIGHT
3684
29-Jun-2024
12:15
s
zaid



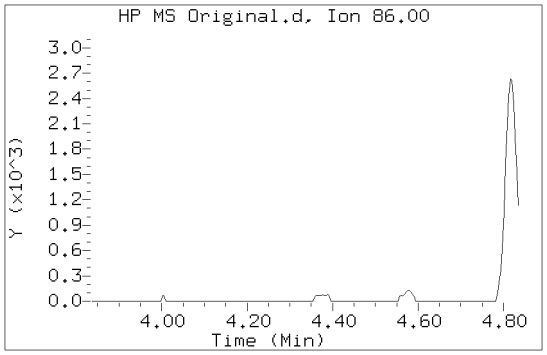
AFTER

MASS
43
AREA
8018
HEIGHT
3684
29-Jun-2024
12:15
s
zaid



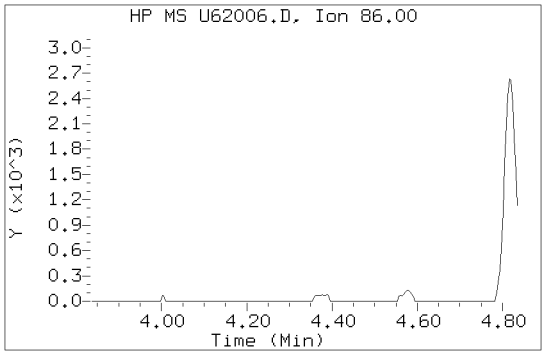
BEFORE

MASS
86
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
86
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid

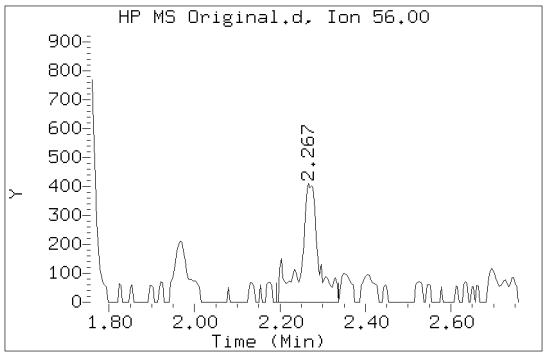


Acrolein (107-02-8)

Reason Code:

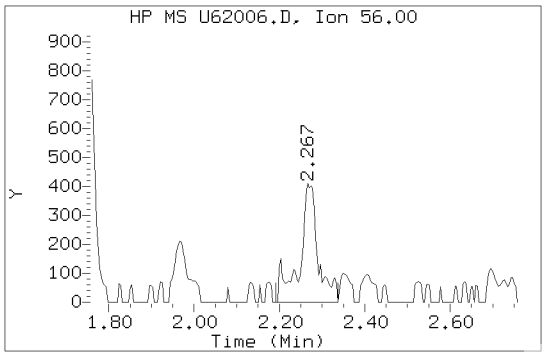
BEFORE

MASS
56
AREA
1238
HEIGHT
412
29-Jun-2024
12:15
s
zaid



AFTER

MASS
56
AREA
1238
HEIGHT
412
29-Jun-2024
12:15
s
zaid



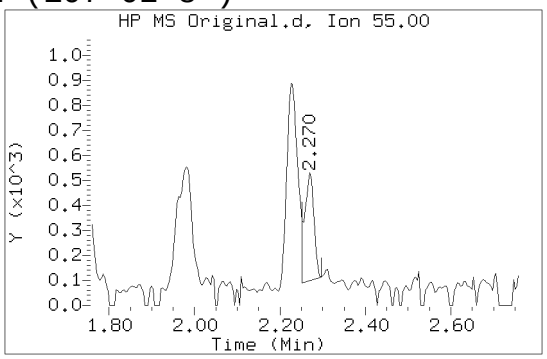
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62006.D
Inj Date : 20-JUN-2024 12:49
InstruID : VOA9.i
LabSampID : VSTD005

Acrolein (107-02-8)

Reason Code:

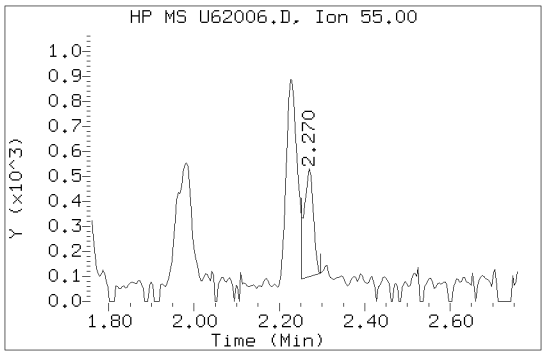
BEFORE

MASS
55
AREA
677
HEIGHT
430
29-Jun-2024
12:15
s
zaid



AFTER

MASS
55
AREA
677
HEIGHT
430
29-Jun-2024
12:15
s
zaid

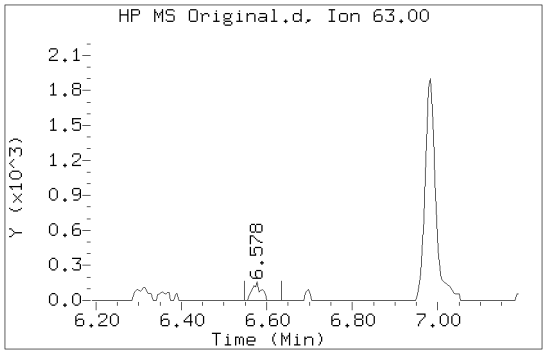


2-Chloroethylvinyl ether (110-75-8)

Reason Code:

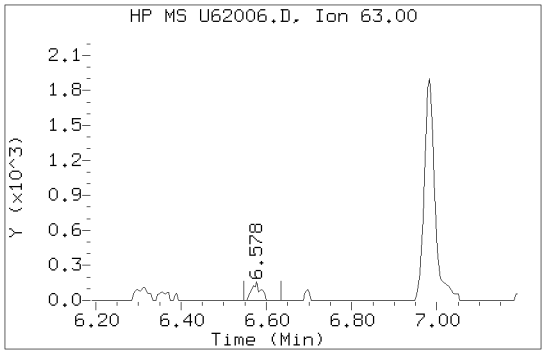
BEFORE

MASS
63
AREA
225
HEIGHT
162
29-Jun-2024
12:15
s
zaid



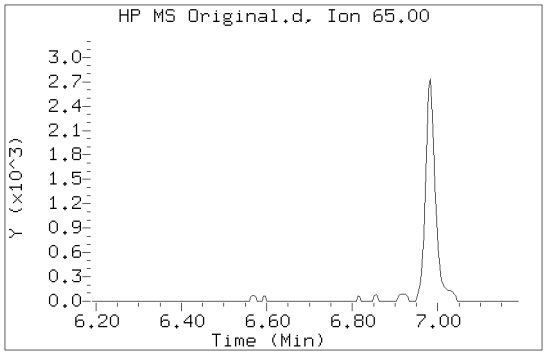
AFTER

MASS
63
AREA
225
HEIGHT
162
29-Jun-2024
12:15
s
zaid



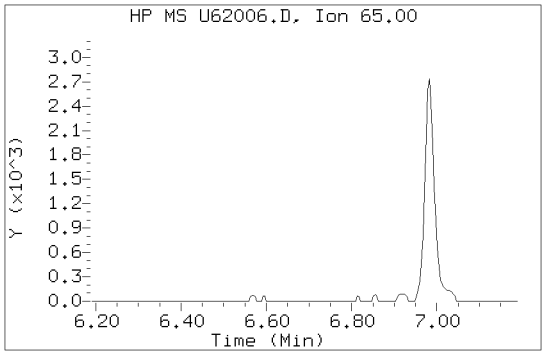
BEFORE

MASS
65
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



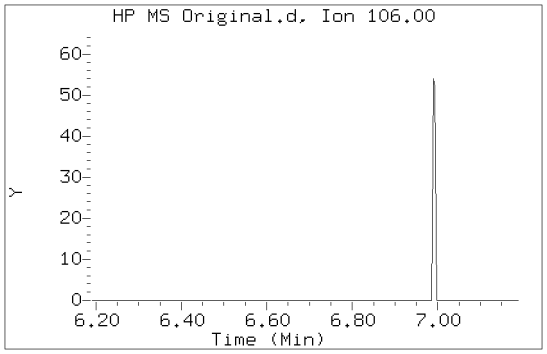
AFTER

MASS
65
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



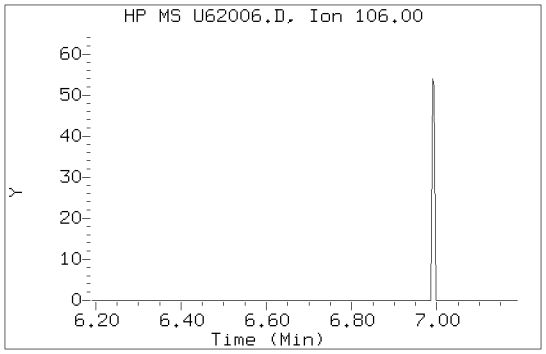
BEFORE

MASS
106
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
106
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



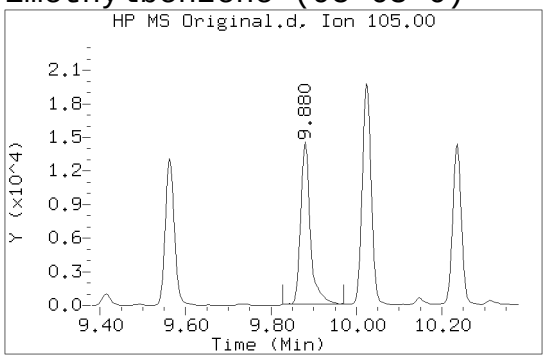
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62006.D
Inj Date : 20-JUN-2024 12:49
InstruID : VOA9.i
LabSampID : VSTD005

1,2,4-Trimethylbenzene (95-63-6)

Reason Code:

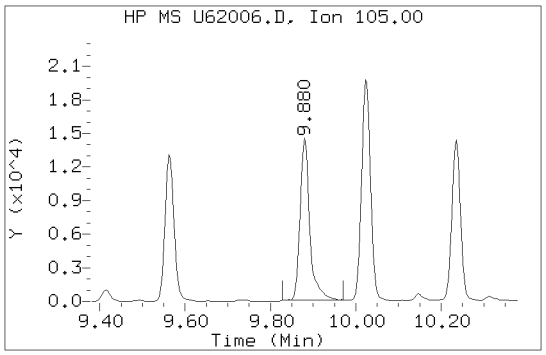
BEFORE

MASS
105
AREA
23144
HEIGHT
14484
29-Jun-2024
12:15
s
zaid



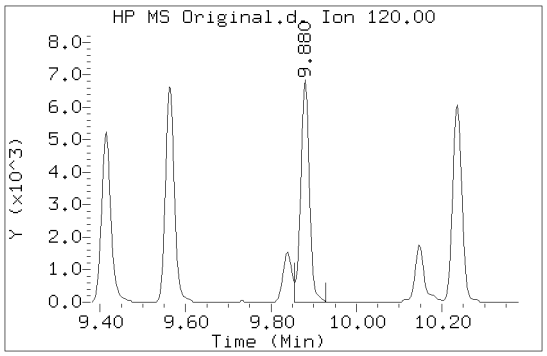
AFTER

MASS
105
AREA
23144
HEIGHT
14484
29-Jun-2024
12:15
s
zaid



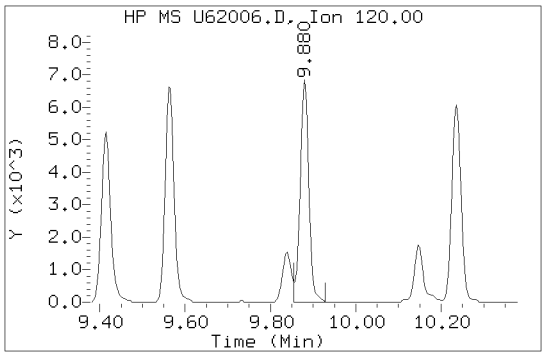
BEFORE

MASS
120
AREA
9913
HEIGHT
6845
29-Jun-2024
12:15
s
zaid



AFTER

MASS
120
AREA
9913
HEIGHT
6845
29-Jun-2024
12:15
s
zaid

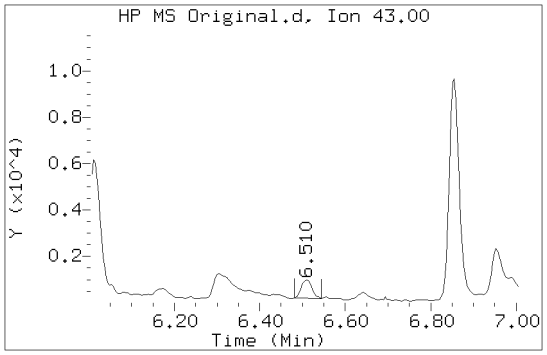


2-Nitropropane (79-46-9)

Reason Code:

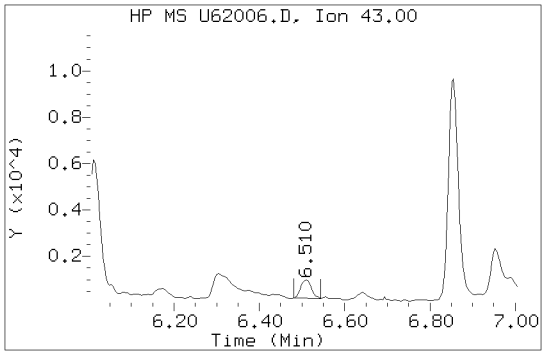
BEFORE

MASS
43
AREA
1402
HEIGHT
775
29-Jun-2024
12:15
s
zaid



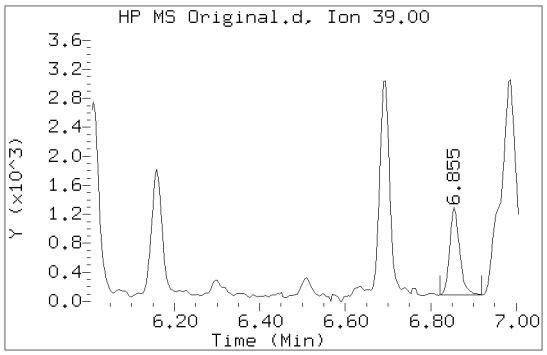
AFTER

MASS
43
AREA
1402
HEIGHT
775
29-Jun-2024
12:15
s
zaid



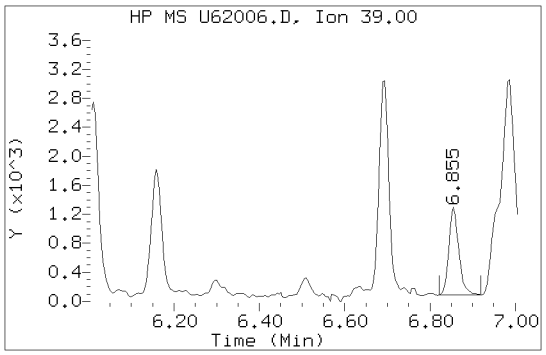
BEFORE

MASS
39
AREA
1960
HEIGHT
1216
29-Jun-2024
12:15
s
zaid



AFTER

MASS
39
AREA
1960
HEIGHT
1216
29-Jun-2024
12:15
s
zaid

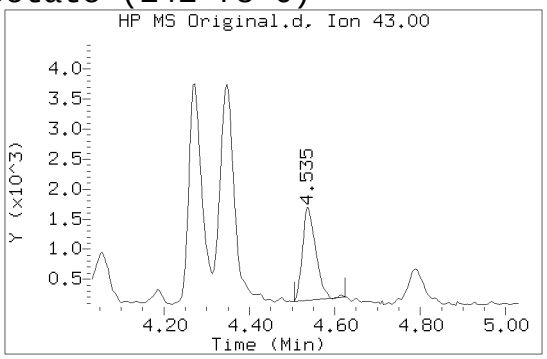


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62006.D
Inj Date : 20-JUN-2024 12:49
InstruID : VOA9.i
LabSampID : VSTD005

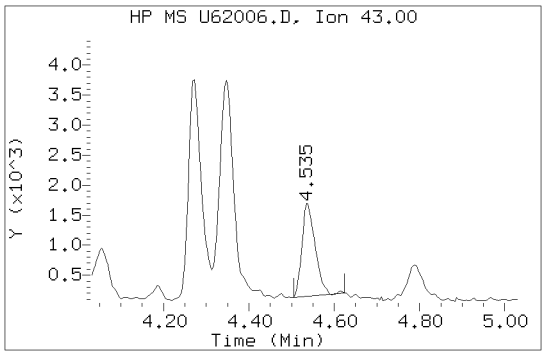
Ethyl Acetate (141-78-6)

Reason Code:

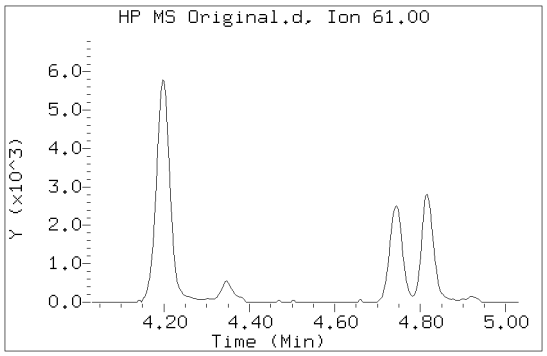
BEFORE
MASS
43
AREA
3383
HEIGHT
1548
29-Jun-2024
12:15
s
zaid



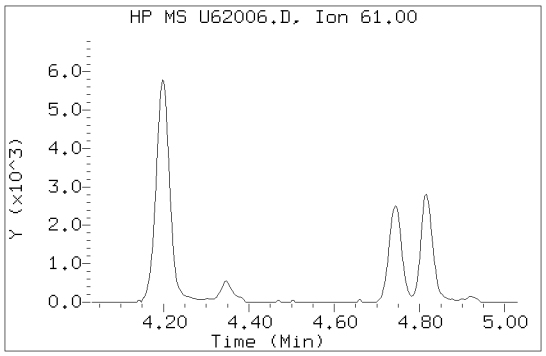
AFTER
MASS
43
AREA
3383
HEIGHT
1548
29-Jun-2024
12:15
s
zaid



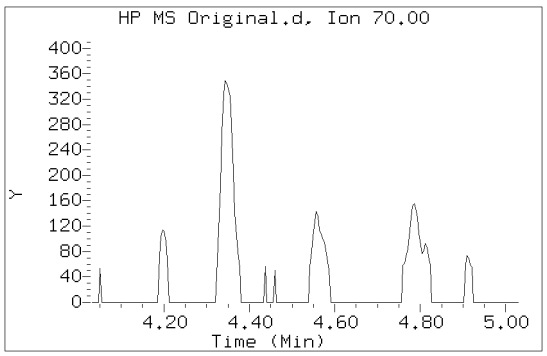
BEFORE
MASS
61
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



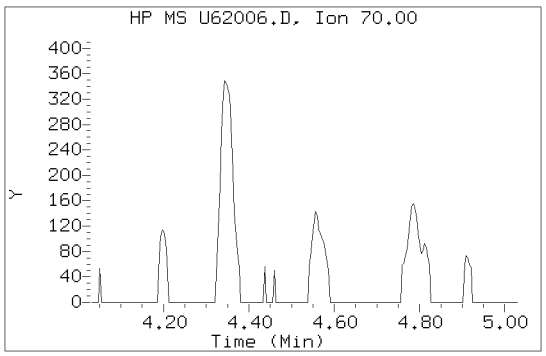
AFTER
MASS
61
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



BEFORE
MASS
70
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



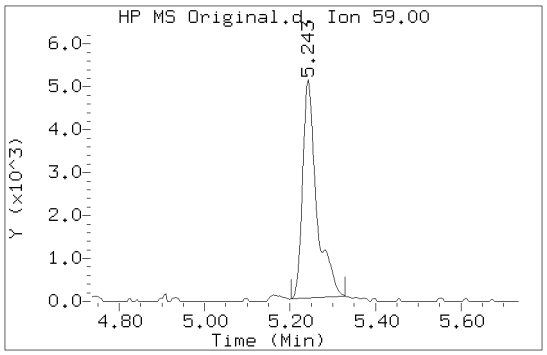
AFTER
MASS
70
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



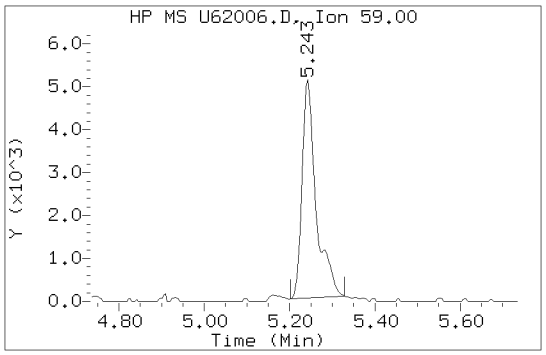
tert-Butyl formate (762-75-4)

Reason Code:

BEFORE
MASS
59
AREA
11690
HEIGHT
5087
29-Jun-2024
12:15
s
zaid



AFTER
MASS
59
AREA
11690
HEIGHT
5087
29-Jun-2024
12:15
s
zaid



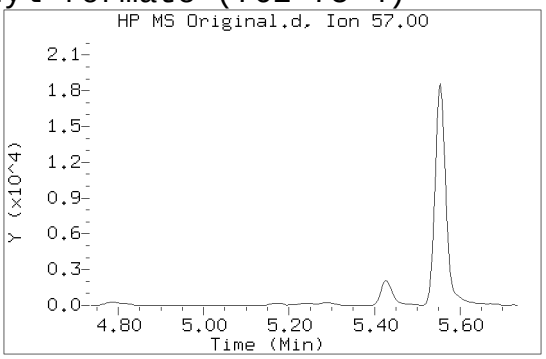
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62006.D
Inj Date : 20-JUN-2024 12:49
InstruID : VOA9.i
LabSampID : VSTD005

tert-Butyl formate (762-75-4)

Reason Code:

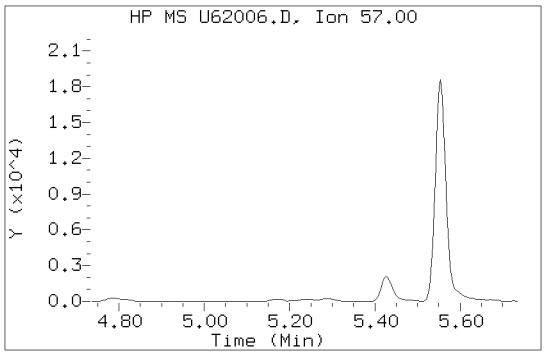
BEFORE

MASS
57
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



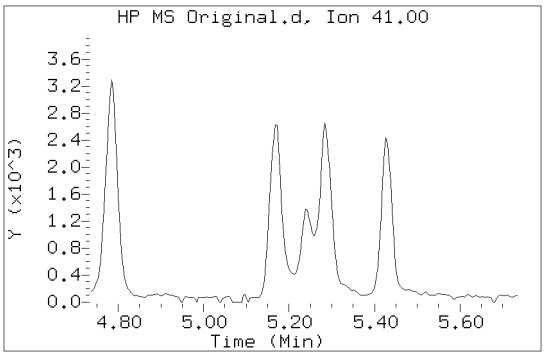
AFTER

MASS
57
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



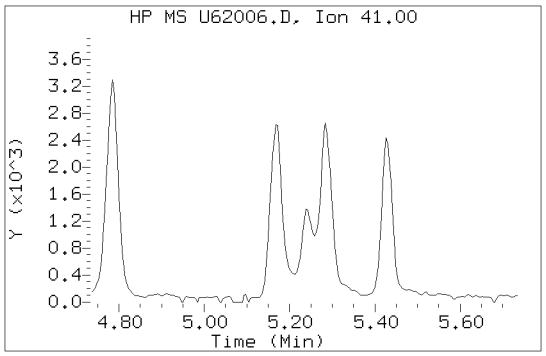
BEFORE

MASS
41
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
41
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



Ethylene oxide (75-21-8)

Reason Code:

BEFORE

MASS
44
AREA
17289
HEIGHT
13619
29-Jun-2024
12:15
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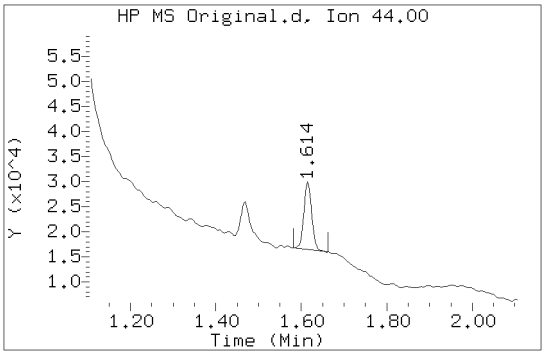

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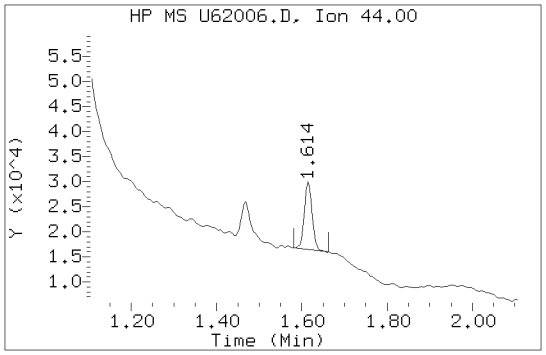

Epichlorohydrin (106-89-8)

Reason Code:

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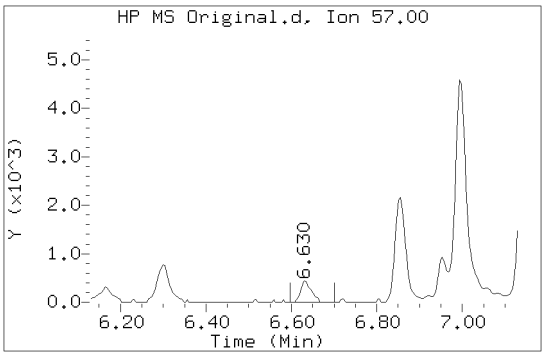

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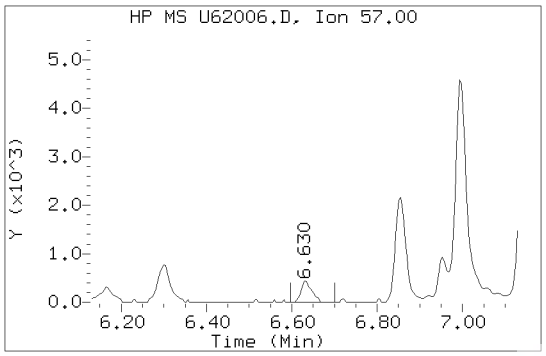

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Inj Date : 20-JUN-2024 12:49
InstruID : VOA9.i
LabSampID : VSTD005

Epichlorohydrin (106-89-8)

Reason Code:

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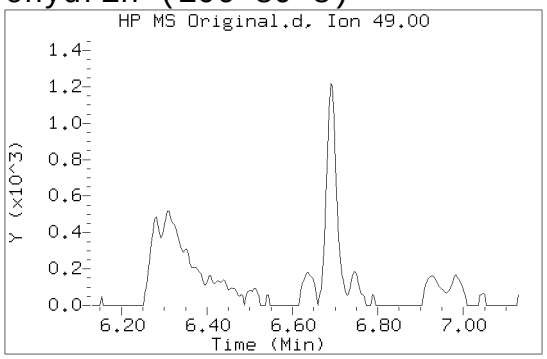

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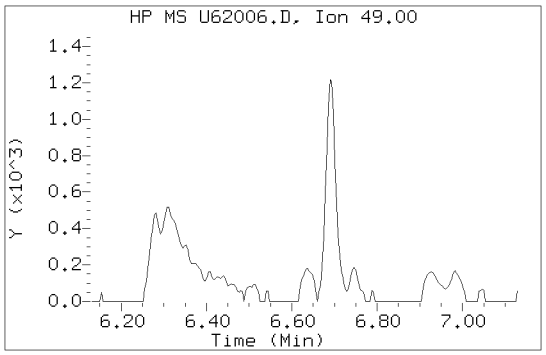

n-Amyl acetate (628-63-7)

Reason Code:

BEFORE

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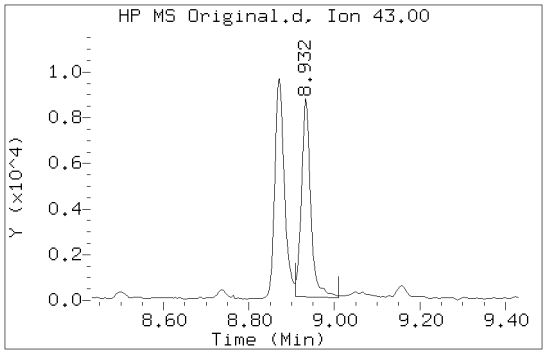

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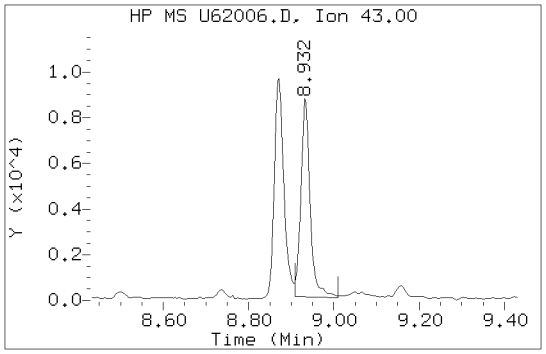

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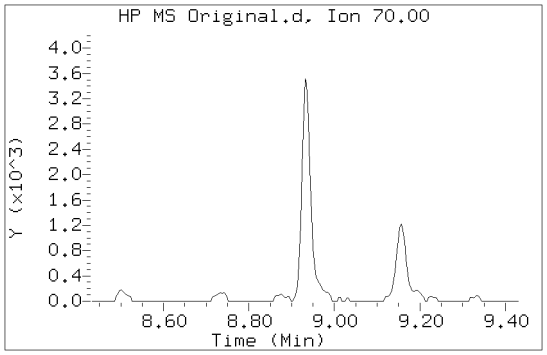

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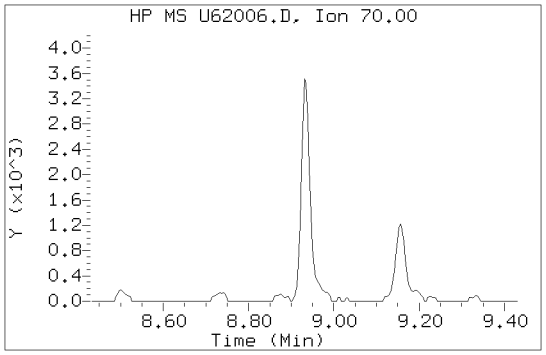

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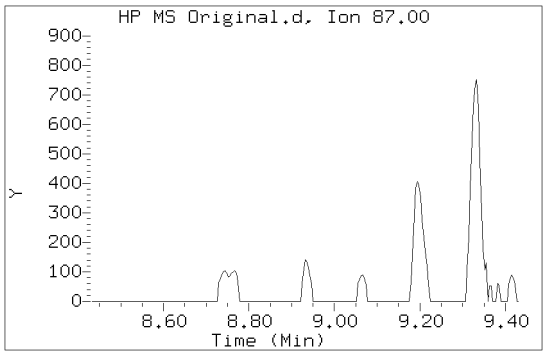

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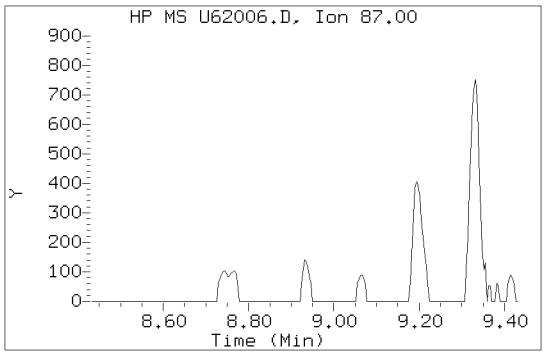

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InstruID : VOA9.i
LabSampID : VSTD005

Acetaldehyde (75-07-0)

Reason Code:

BEFORE
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6895
29-Jun-2024
12:15
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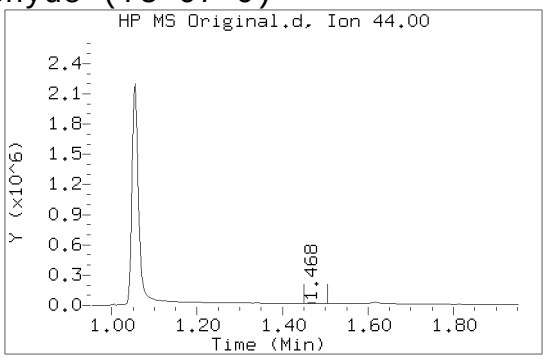

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12:15
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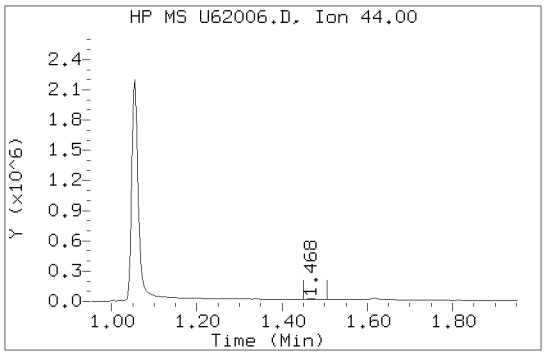

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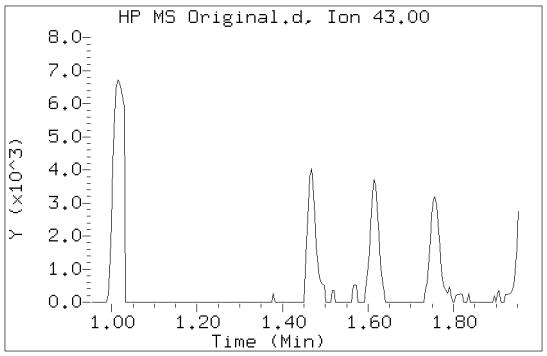

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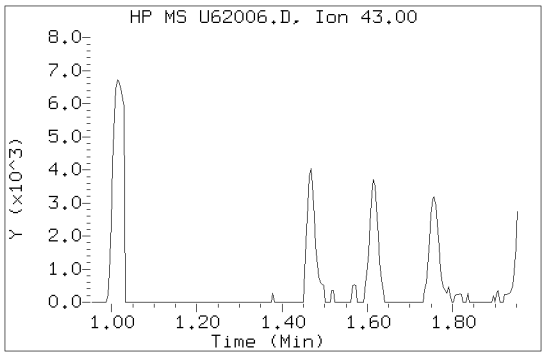

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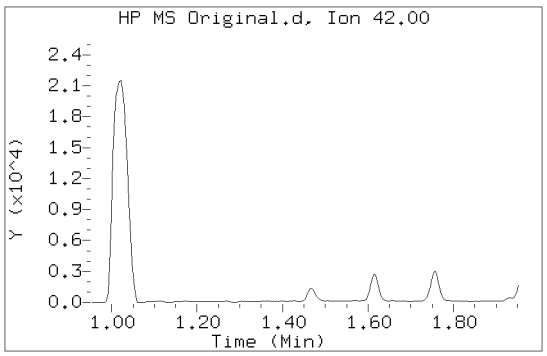

AFTER
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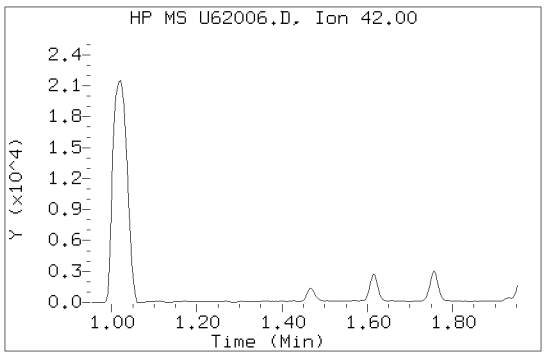

Isobutylene (115-11-7)

Reason Code:

BEFORE
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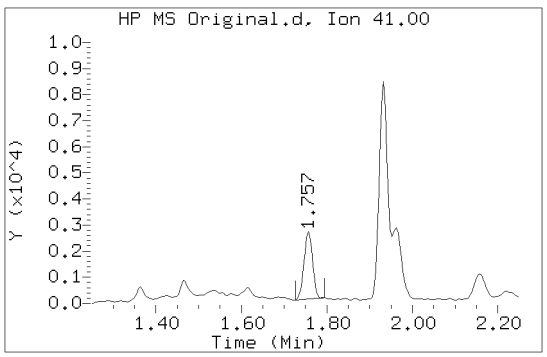

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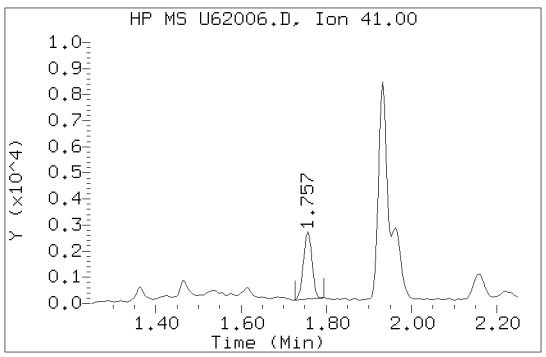

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Inj Date : 20-JUN-2024 12:49
InstruID : VOA9.i
LabSampID : VSTD005

Isobutylene (115-11-7)

Reason Code:

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12:15
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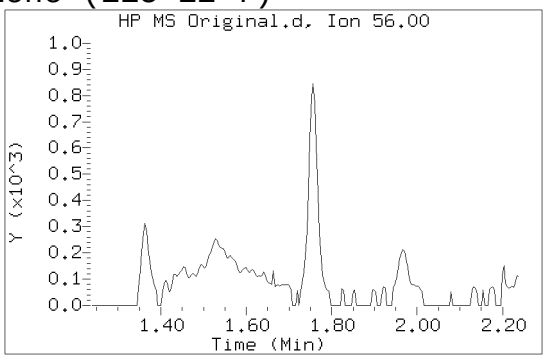

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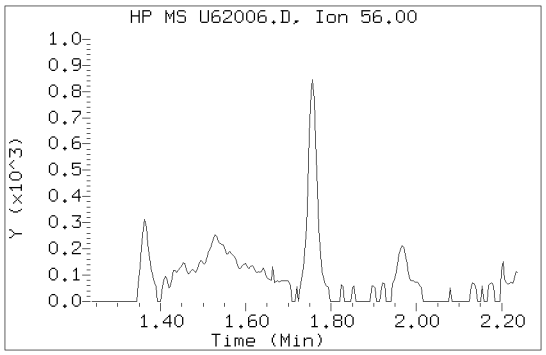

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12:15
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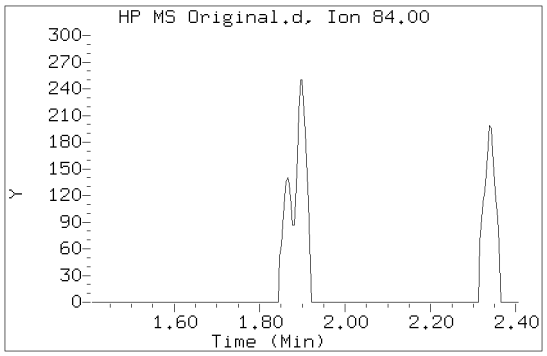

AFTER
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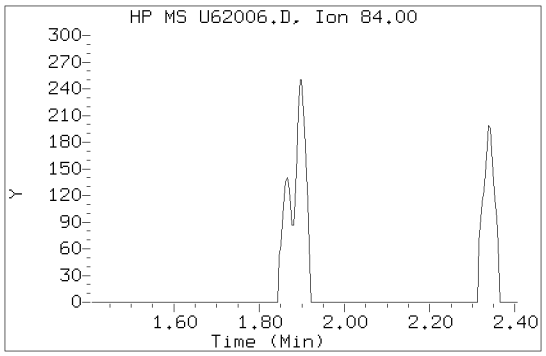

sec-Butyl Ether (6863-58-7)

Reason Code:

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12:15
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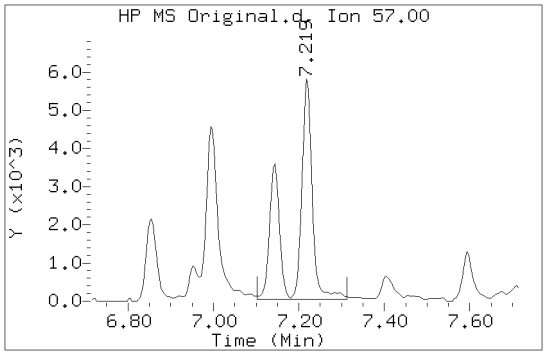

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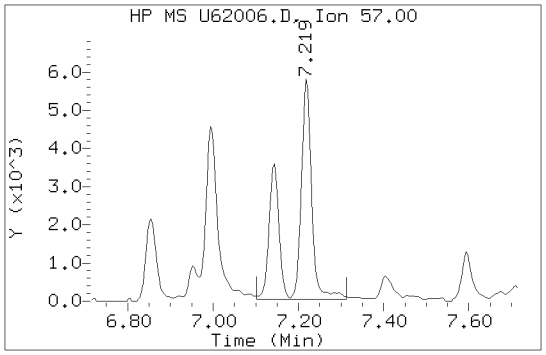

2-Chloropropene (557-98-2)

Reason Code:

BEFORE
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29-Jun-2024
12:15
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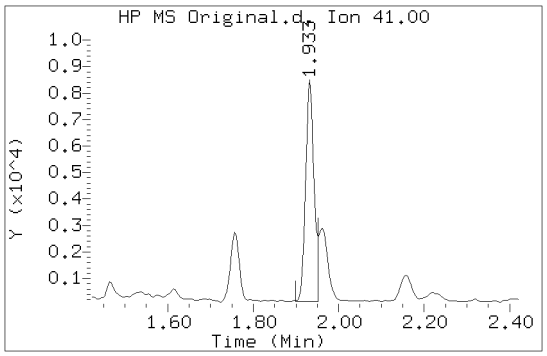

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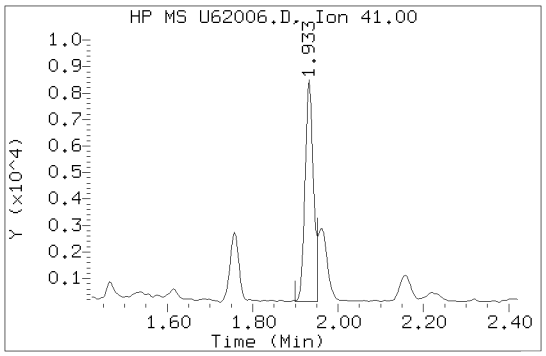

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Report Date: 29-Jun-2024 12:19

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62007.D
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Inj Date : 20-JUN-2024 13:10
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\U240620.b\8260C.m
Meth Date : 29-Jun-2024 12:19 VOA9.i Quant Type: ISTD
Cal Date : 20-JUN-2024 11:44 Cal File: U62003.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: NAHSTW7014

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)	254049	50.0000	
2 Dichlorodifluoromethane	85	1.168	1.168	(0.243)	38140	20.0000	21.02(M)
3 Chloromethane	50	1.299	1.299	(0.270)	86062	20.0000	20.28
4 Propionitrile	54	4.335	4.335	(0.900)	47549	200.000	200.52(a)
5 Vinyl Chloride	62	1.382	1.382	(0.287)	45157	20.0000	20.12(M)
6 Bromomethane	94	1.618	1.618	(0.336)	19198	20.0000	21.90
7 Chloroethane	64	1.700	1.700	(0.353)	29401	20.0000	20.22
8 Trichlorofluoromethane	101	1.895	1.895	(0.394)	52599	20.0000	21.61
9 Acrolein	56	2.262	2.262	(0.470)	3234	40.0000	38.14
10 Acetone	43	2.409	2.409	(0.500)	28441	40.0000	39.38
11 1,1-Dichloroethene	96	2.334	2.334	(0.485)	30061	20.0000	20.28
12 Isobutyl Alcohol	43	5.284	5.284	(1.097)	92132	400.000	367.35(a)
13 Acetonitrile	39	2.671	2.671	(0.555)	39916	200.000	199.51(a)
14 Allyl Chloride	41	2.671	2.671	(0.555)	93616	20.0000	20.04(a)
15 Iodomethane	142	2.465	2.465	(0.512)	20114	40.0000	36.74
16 Acrylonitrile	53	3.065	3.065	(0.636)	25226	40.0000	40.39
17 Methylene Chloride	84	2.795	2.795	(0.580)	38417	20.0000	20.28
18 Methyl tert-butyl ether	73	3.080	3.080	(0.640)	87519	20.0000	20.28
19 Carbon Disulfide	76	2.521	2.521	(0.524)	163219	40.0000	39.96
20 trans-1,2-Dichloroethene	96	3.057	3.057	(0.635)	32296	20.0000	20.46

21 Vinyl Acetate	43	4.339	4.339 (0.901)	34793	40.0000	39.07
22 1,1-Dichloroethane	63	3.511	3.511 (0.729)	62083	20.0000	20.65

	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)	51433	20.0000	20.26
	24 2-Butanone	43	4.264	4.264	(0.886)	33931	40.0000	38.62
	25 Methacrylonitrile	41	4.493	4.493	(0.933)	19125	20.0000	17.69(aM)
	26 2,2-Dichloropropane	77	4.182	4.182	(0.868)	44921	20.0000	19.54
	27 cis-1,2-Dichloroethene	96	4.193	4.193	(0.871)	36622	20.0000	19.71
	28 Chloroform	83	4.572	4.572	(0.949)	62582	20.0000	20.32
	29 Bromochloromethane	128	4.467	4.467	(0.928)	19233	20.0000	18.91
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	33666	20.0000	19.95
	31 1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	48589	20.0000	20.60
	32 1,1-Dichloropropene	75	4.920	4.920	(0.887)	45303	20.0000	20.23(M)
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	51020	20.0000	20.77
	34 Carbon Tetrachloride	117	4.909	4.909	(0.885)	37608	20.0000	20.03(M)
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	42857	20.0000	19.91
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	367092	50.0000	
	37 Benzene	78	5.138	5.138	(0.926)	141532	20.0000	18.73
	38 Trichloroethene	130	5.786	5.786	(1.043)	35944	20.0000	19.60
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	40094	20.0000	18.77
	40 Methyl Methacrylate	41	5.820	5.820	(1.209)	12994	20.0000	19.54(a)
	41 2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	1519	40.0000	37.98(M)
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	37404	20.0000	18.69
	43 2-Nitropropane	43	6.506	6.506	(1.351)	7117	20.0000	17.71(M)
	44 Dibromomethane	93	6.116	6.116	(1.102)	22269	20.0000	19.06
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	68344	40.0000	37.63
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	46931	20.0000	18.81
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	329541	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	125647	20.0000	19.64
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	44580	20.0000	19.12(a)
	50 Toluene	91	6.978	6.978	(0.853)	150132	20.0000	20.00
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	38067	20.0000	18.30
	52 2-Hexanone	43	7.214	7.214	(0.881)	53773	40.0000	43.58
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	27714	20.0000	19.10
	54 1,3-Dichloropropane	76	7.496	7.496	(0.916)	58809	20.0000	19.28
	55 Dibromochloromethane	129	7.691	7.691	(0.940)	29986	20.0000	19.80
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	29084	20.0000	20.71
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	31039	20.0000	19.38
	58 1-Chlorohexane	55	8.197	8.197	(1.477)	28802	20.0000	19.94
	59 Chlorobenzene	112	8.208	8.208	(1.003)	96445	20.0000	20.69
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	31402	20.0000	19.48
	61 Ethylbenzene	106	8.305	8.305	(1.015)	47392	20.0000	20.40
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	118342	40.0000	42.68
	63 o-Xylene	106	8.748	8.748	(1.069)	58330	20.0000	21.35
	64 Styrene	104	8.763	8.763	(1.071)	93490	20.0000	20.46
	66 Bromoform	173	8.920	8.920	(1.090)	17069	20.0000	17.63
	67 Isopropylbenzene	105	9.063	9.063	(1.107)	145388	20.0000	21.44
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	46115	20.0000	20.31
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	47575	20.0000	18.93
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	182323	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	43891	20.0000	19.62
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	8831	20.0000	19.17(a)
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	167474	20.0000	21.24
	74 Bromobenzene	156	9.318	9.318	(0.916)	40710	20.0000	19.00
	75 1,3,5-Trimethylbenzene	105	9.565	9.565	(0.940)	101450	20.0000	18.00

76	2-Chlorotoluene	91	9.482	9.482 (0.932)	105758	20.0000	19.82
77	4-Chlorotoluene	91	9.576	9.576 (0.941)	122560	20.0000	20.24

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62007.D Page 3
Report Date: 29-Jun-2024 12:19

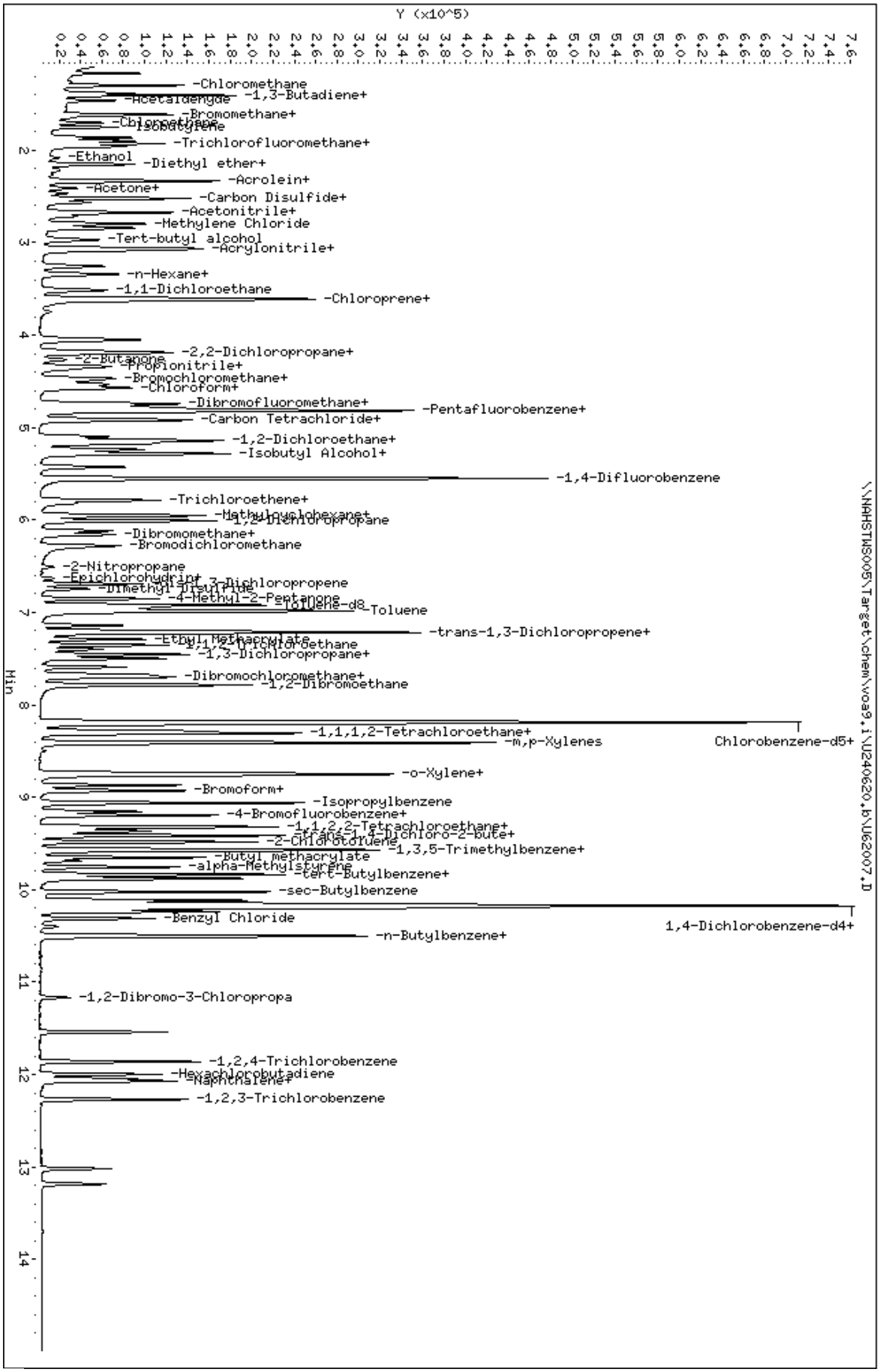
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.839	9.839	(0.967)	102979	20.0000	21.43
79	1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	96167	20.0000	16.57(M)
81	sec-Butylbenzene	105	10.022	10.022	(0.985)	135005	20.0000	21.09
82	p-Isopropyltoluene	119	10.146	10.146	(0.997)	106929	20.0000	18.41
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	73042	20.0000	18.53
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	78002	20.0000	20.29
86	Benzyl Chloride	91	10.311	10.311	(1.260)	69765	20.0000	20.22
87	n-Butylbenzene	91	10.495	10.495	(1.032)	99934	20.0000	19.10
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	73575	20.0000	18.74
89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	5187	20.0000	19.09
90	1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	44801	20.0000	18.86
91	Hexachlorobutadiene	225	11.998	11.998	(1.179)	20604	20.0000	19.57
92	Naphthalene	128	12.069	12.069	(1.186)	87164	20.0000	17.07
93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	41467	20.0000	19.07
146	Methyl acetate	43	2.712	2.712	(0.563)	28405	20.0000	20.14
138	Freon TF	101	2.334	2.334	(0.485)	28842	20.0000	20.84
141	Cyclohexane	56	4.782	4.782	(0.993)	50211	20.0000	19.92
142	Tetrahydrofuran	42	4.542	4.542	(0.943)	11599	40.0000	38.55
147	Methylcyclohexane	55	5.947	5.947	(1.072)	76325	20.0000	19.58
135	1,4-Dioxane	88	6.169	6.169	(1.281)	8369	400.000	421.83
132	n-Butanol	56	5.824	5.824	(1.209)	17102	400.000	377.93(a)
136	n-Hexane	57	3.342	3.342	(0.694)	34407	20.0000	21.12(T)
139	Diethyl ether	59	2.146	2.146	(0.446)	25476	20.0000	20.10
148	Tert-butyl alcohol	59	2.967	2.967	(0.616)	60372	400.000	407.83
149	Isopropyl alcohol	45	2.562	2.562	(0.532)	48459	400.000	424.55(T)
156	Diisopropyl ether	45	3.619	3.619	(0.752)	112384	20.0000	18.34(T)
162	Butyl acrylate	55	8.733	8.733	(1.067)	58370	20.0000	19.24
164	Dicyclopentadiene	66	10.202	10.202	(1.003)	152026	20.0000	19.25
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	87899	20.0000	16.85
167	Ethanol	45	2.083	2.083	(0.433)	9302	400.000	419.20
172	tert-Butyl formate	59	5.239	5.239	(1.088)	47930	40.0000	40.22
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	193343	400.000	381.90
140	1,3-Butadiene	54	1.404	1.404	(0.292)	44943	20.0000	20.60
182	Epichlorohydrin	57	6.630	6.630	(1.195)	4024	80.0000	69.51
M 94	1,2-Dichloroethylene (total)	96				68918	40.0000	(a)
145	alpha-Methylstyrene	118	9.756	9.756	(0.959)	36586	20.0000	18.30
130	Ethyl Acetate	43	4.530	4.530	(0.941)	14253	20.0000	22.69(M)
131	Methyl Acrylate	55	4.369	4.369	(0.907)	37588	20.0000	17.85
189	n-Butyl acetate	43	7.706	7.706	(0.941)	52879	20.0000	20.12
134	Cyclohexanone	55	9.153	9.153	(0.900)	37033	400.000	394.04(a)
185	Isoprene	39	2.158	2.158	(0.448)	7678	20.0000	20.81
188	Isopropyl acetate	43	5.284	5.284	(0.952)	92557	20.0000	18.85
150	Allyl alcohol	57	3.342	3.342	(0.694)	34407	400.000	422.44
194	Acetaldehyde	44	1.464	1.464	(0.304)	34408	80.0000	81.02(M)
200	Dimethyl Disulfide	94	6.746	6.746	(0.824)	17763	20.0000	16.88
202	Isobutylene	41	1.753	1.753	(0.364)	16468	20.0000	20.24(M)
133	Ethyl Acrylate	55	5.947	5.947	(1.235)	76325	20.0000	19.09
163	Butyl methacrylate	41	9.651	9.651	(0.949)	41093	20.0000	21.89
159	Propylene oxide	43	2.202	2.202	(0.457)	4192	40.0000	36.11
178	Ethylene oxide	44	1.610	1.610	(0.334)	73276	40.0000	38.85(M)
203	2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	29847	20.0000	16.54
204	Tetrahydrothiophene	60	7.672	7.672	(0.937)	36596	20.0000	19.54(A)

205 sec-Butyl Ether	57	7.214	7.214 (0.881)	68567	20.0000	18.62(AM)
187 n-Amyl acetate	43	8.931	8.931 (1.091)	58869	20.0000	20.19

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
206 2-Chloropropene	41	1.925	1.925	(0.400)	53299	20.0000	20.43(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: VSTD020;VSTD020;1;6
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: TS
Column diameter: 0.18

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Inj Date : 20-JUN-2024 13:10
InstruID : VOA9.i
LabSampID : VSTD020

Dichlorodifluoromethane (75-71-8)

Reason Code:

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35024
29-Jun-2024
12:15
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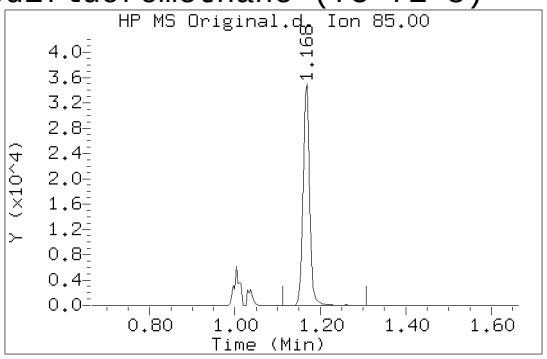

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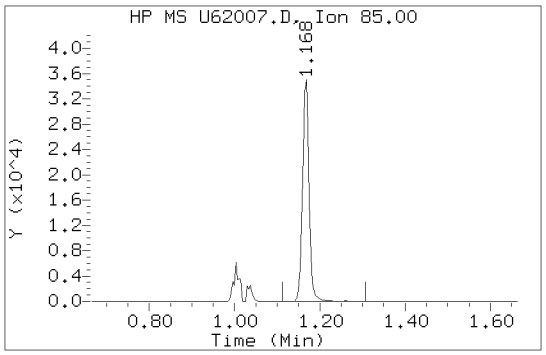

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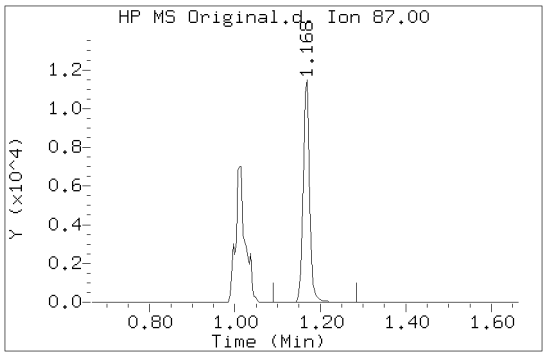

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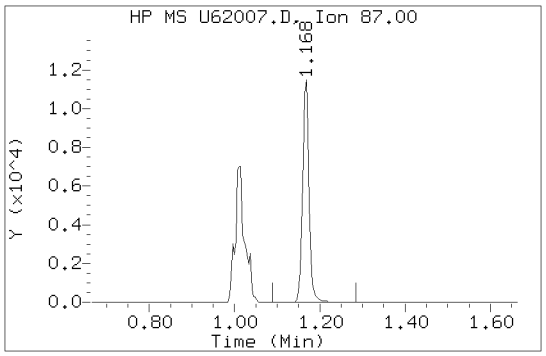

Vinyl Chloride (75-01-4)

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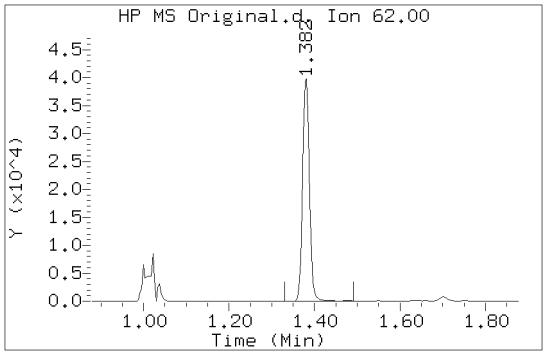

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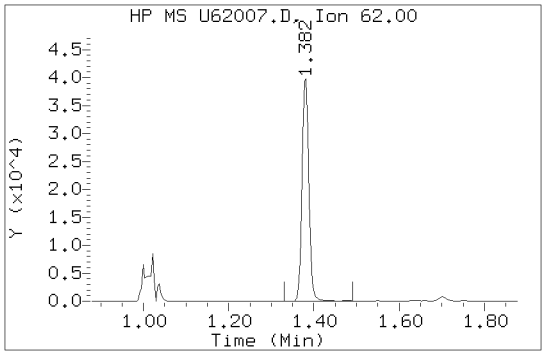

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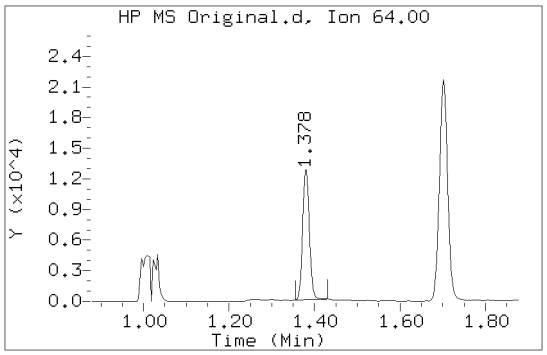

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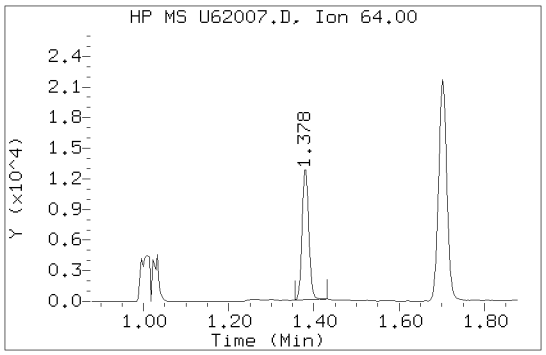

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InstruID : VOA9.i
LabSampID : VSTD020

1,1-Dichloropropene (563-58-6)

Reason Code:

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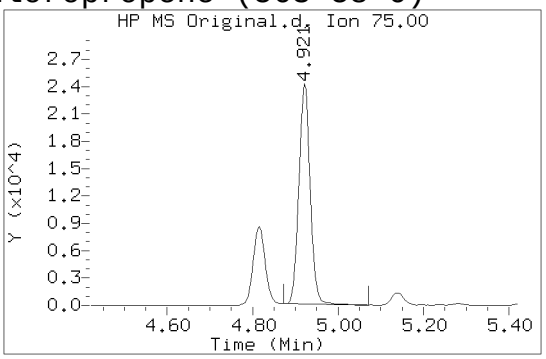

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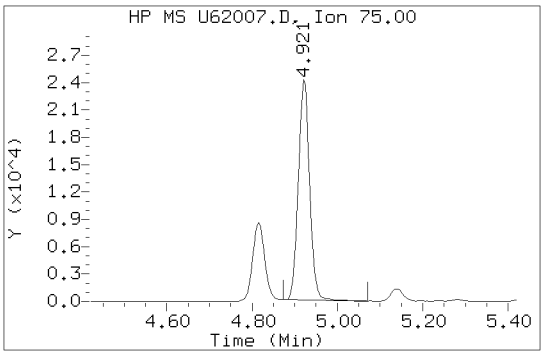

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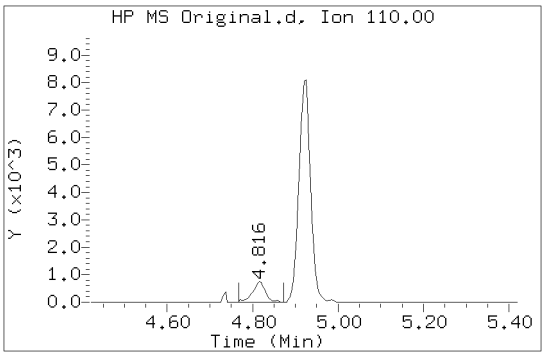

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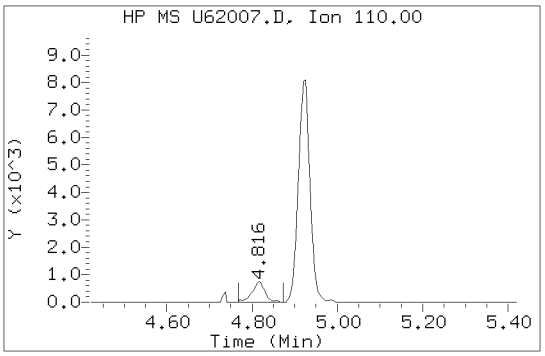

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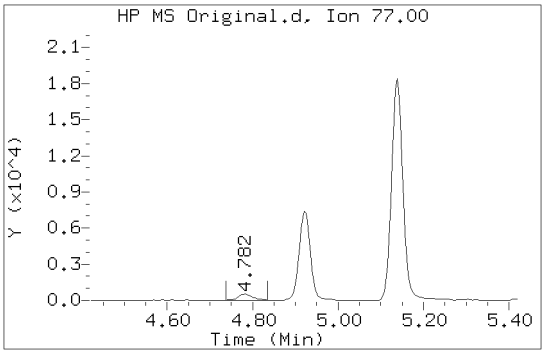

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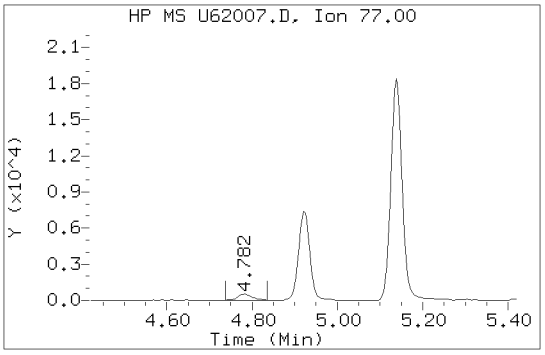

Carbon Tetrachloride (56-23-5)

Reason Code:

BEFORE

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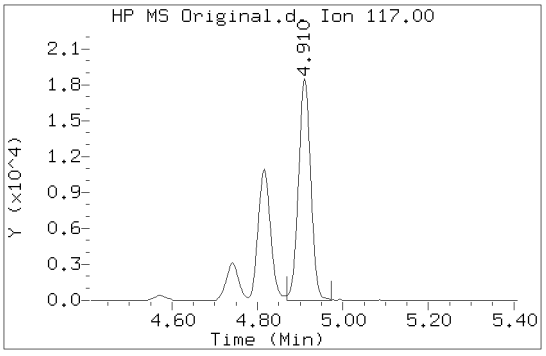

AFTER

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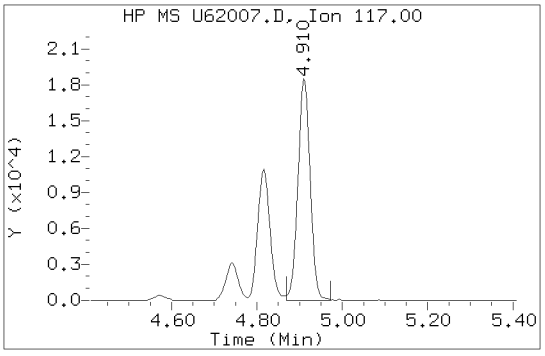

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Inj Date : 20-JUN-2024 13:10
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LabSampID : VSTD020

Carbon Tetrachloride (56-23-5)

Reason Code:

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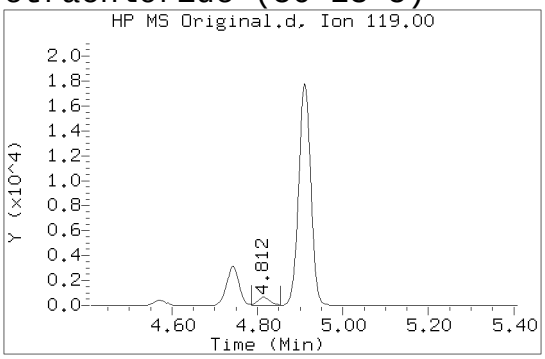

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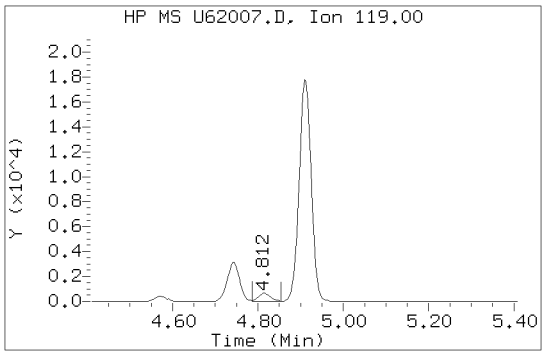

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

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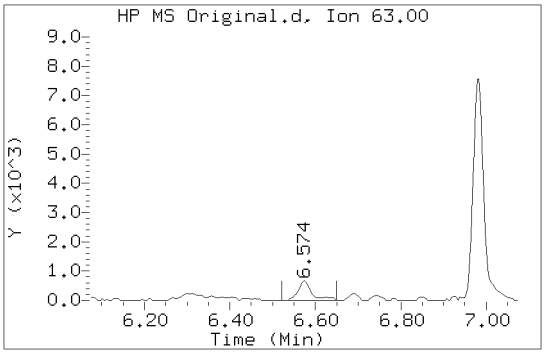

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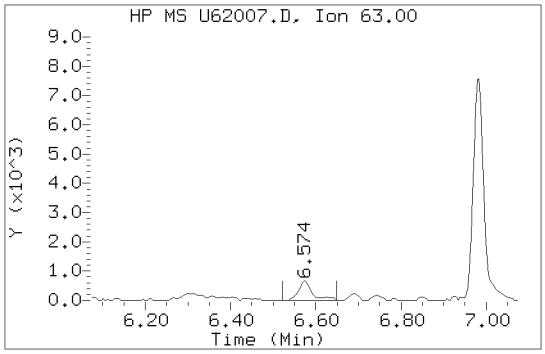

BEFORE

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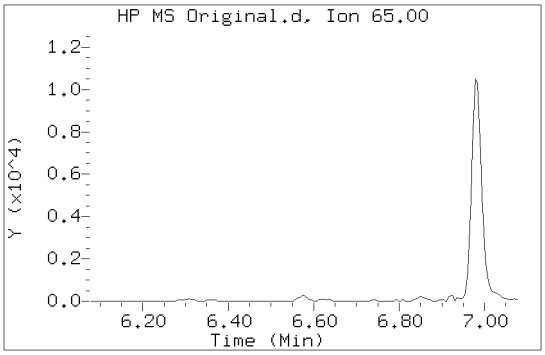

AFTER

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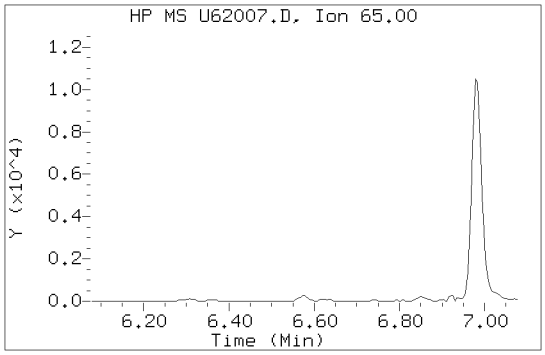

BEFORE

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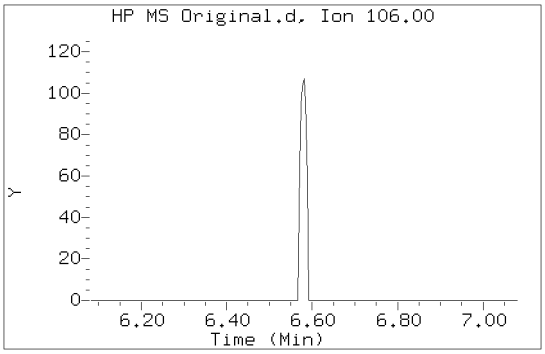

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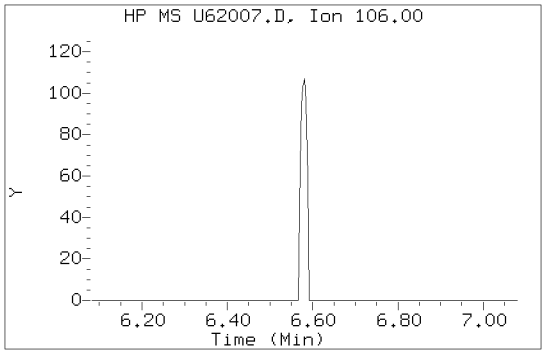

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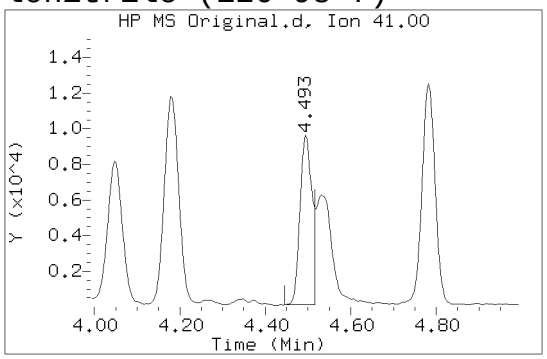
Inj Date : 20-JUN-2024 13:10
InstruID : VOA9.i
LabSampID : VSTD020

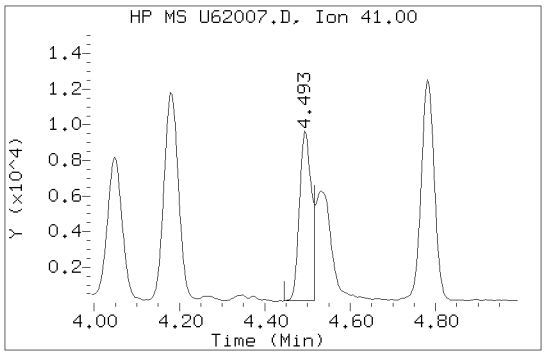
Methacrylonitrile (126-98-7)

Reason Code:

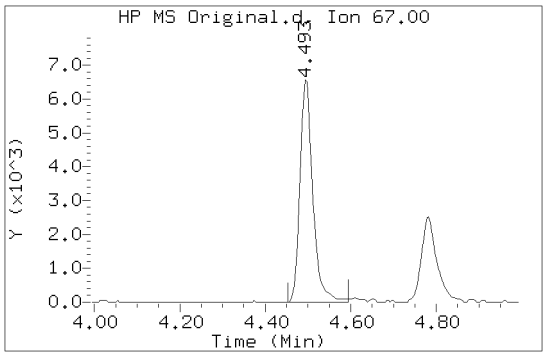
BEFORE
MASS
41
AREA
19125
HEIGHT
9561
29-Jun-2024
12:15
s
zaid



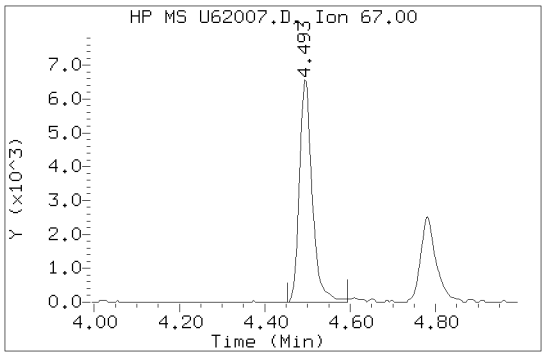
AFTER
MASS
41
AREA
19125
HEIGHT
9561
29-Jun-2024
12:18
s
zaid



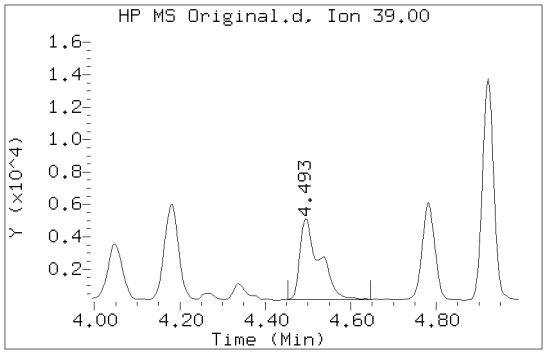
BEFORE
MASS
67
AREA
14029
HEIGHT
6564
29-Jun-2024
12:15
s
zaid



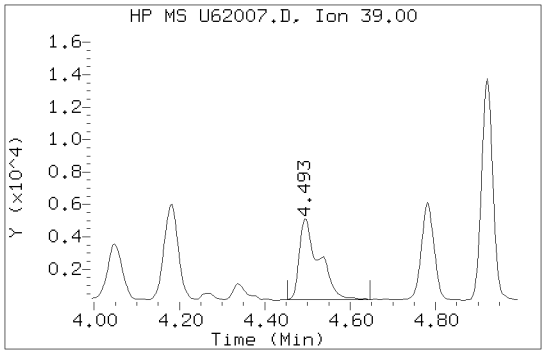
AFTER
MASS
67
AREA
14029
HEIGHT
6564
29-Jun-2024
12:18
s
zaid



BEFORE
MASS
39
AREA
16364
HEIGHT
5002
29-Jun-2024
12:15
s
zaid



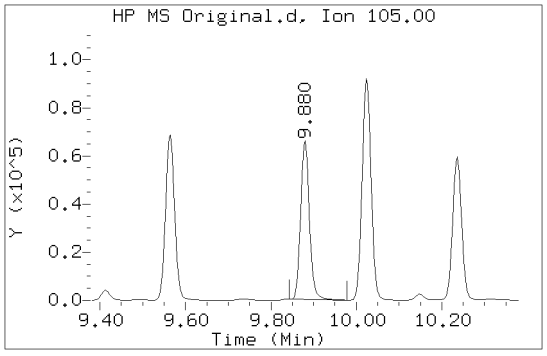
AFTER
MASS
39
AREA
16364
HEIGHT
5002
29-Jun-2024
12:18
s
zaid



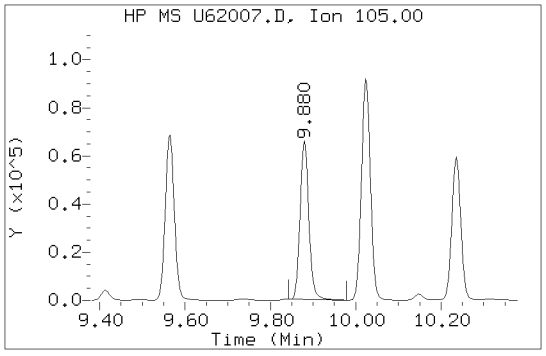
1,2,4-Trimethylbenzene (95-63-6)

Reason Code:

BEFORE
MASS
105
AREA
96167
HEIGHT
66051
29-Jun-2024
12:15
s
zaid



AFTER
MASS
105
AREA
96167
HEIGHT
66051
29-Jun-2024
12:18
s
zaid



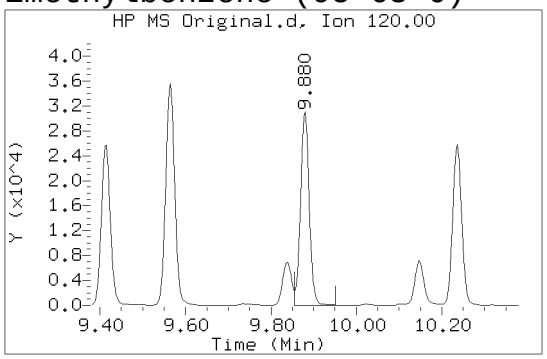
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62007.D
Inj Date : 20-JUN-2024 13:10
InstruID : VOA9.i
LabSampID : VSTD020

1,2,4-Trimethylbenzene (95-63-6)

Reason Code:

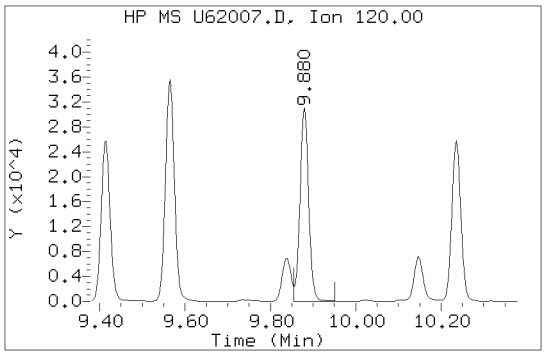
BEFORE

MASS
120
AREA
45066
HEIGHT
31104
29-Jun-2024
12:15
s
zaid



AFTER

MASS
120
AREA
45066
HEIGHT
31104
29-Jun-2024
12:18
s
zaid

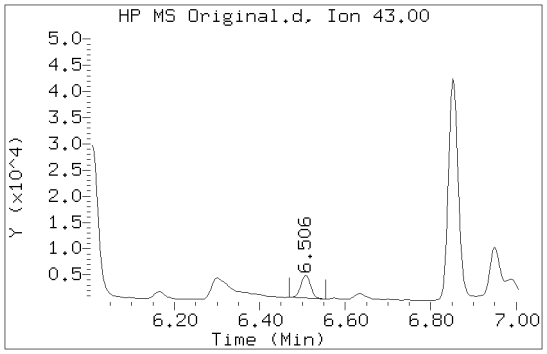


2-Nitropropane (79-46-9)

Reason Code:

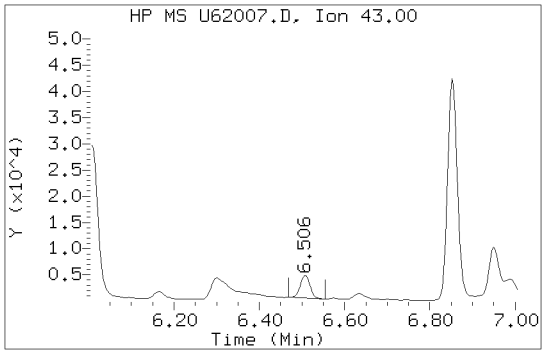
BEFORE

MASS
43
AREA
7117
HEIGHT
4328
29-Jun-2024
12:15
s
zaid



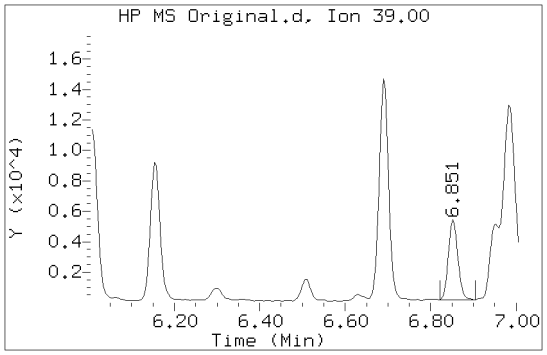
AFTER

MASS
43
AREA
7117
HEIGHT
4328
29-Jun-2024
12:18
s
zaid



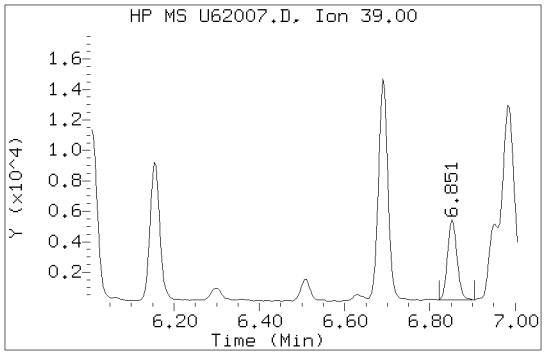
BEFORE

MASS
39
AREA
8125
HEIGHT
5287
29-Jun-2024
12:15
s
zaid



AFTER

MASS
39
AREA
8125
HEIGHT
5287
29-Jun-2024
12:18
s
zaid

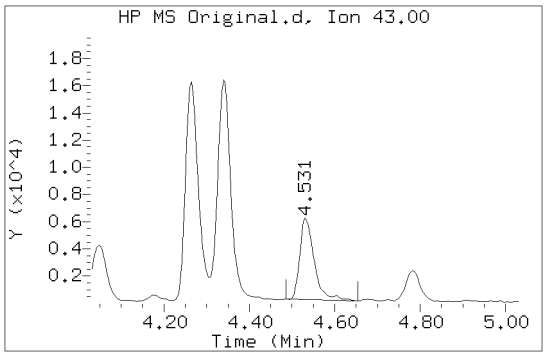


Ethyl Acetate (141-78-6)

Reason Code:

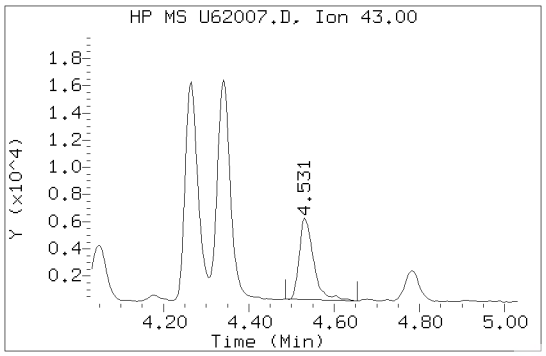
BEFORE

MASS
43
AREA
14253
HEIGHT
5999
29-Jun-2024
12:15
s
zaid



AFTER

MASS
43
AREA
14253
HEIGHT
5999
29-Jun-2024
12:18
s
zaid

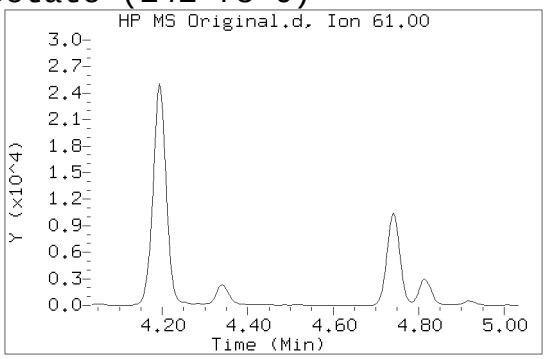


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62007.D
Inj Date : 20-JUN-2024 13:10
InstruID : VOA9.i
LabSampID : VSTD020

Ethyl Acetate (141-78-6)

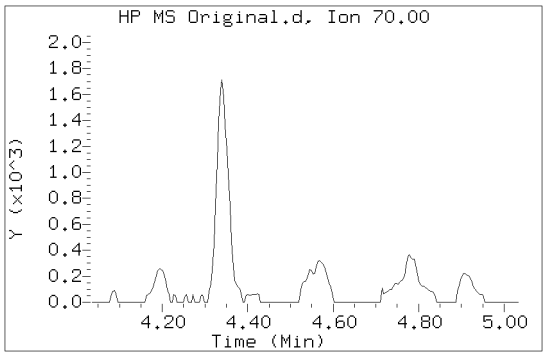
BEFORE

MASS
61
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



BEFORE

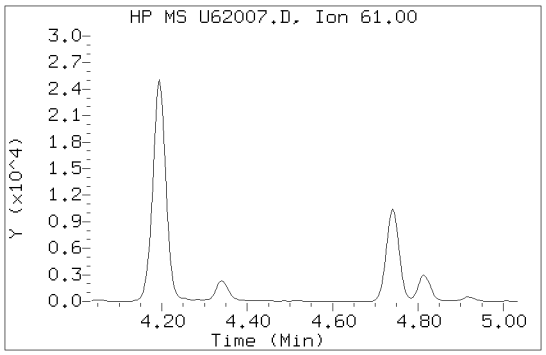
MASS
70
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



Reason Code:

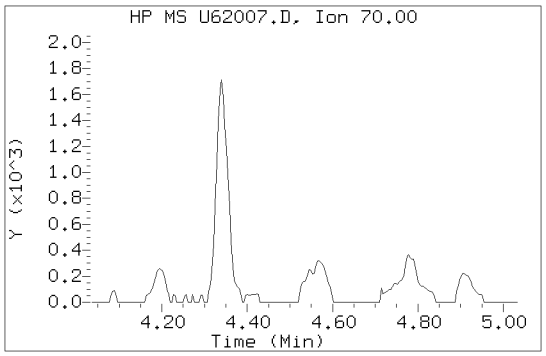
AFTER

MASS
61
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



AFTER

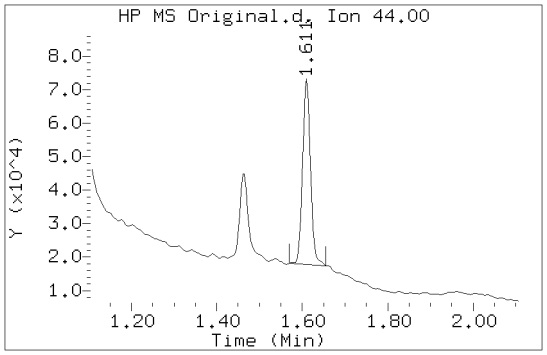
MASS
70
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



Ethylene oxide (75-21-8)

BEFORE

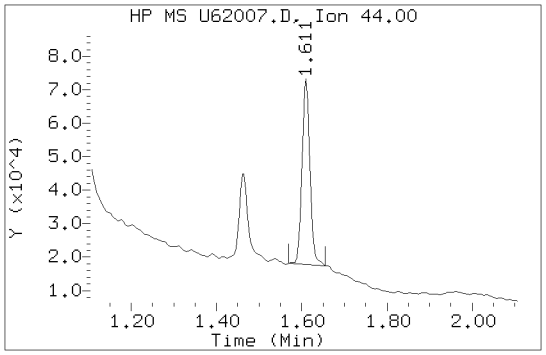
MASS
44
AREA
73276
HEIGHT
55420
29-Jun-2024
12:15
s
zaid



Reason Code:

AFTER

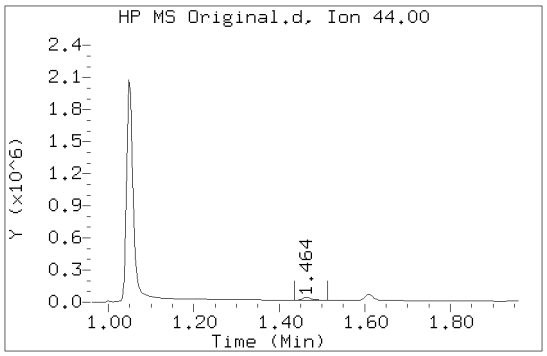
MASS
44
AREA
73276
HEIGHT
55420
29-Jun-2024
12:18
s
zaid



Acetaldehyde (75-07-0)

BEFORE

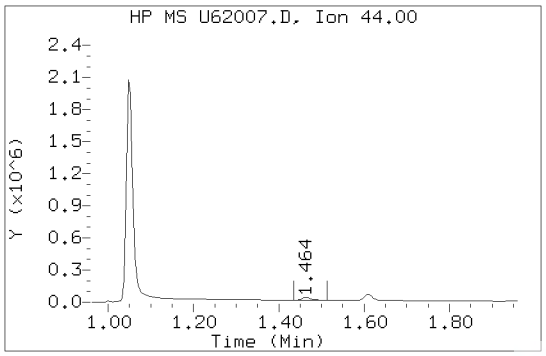
MASS
44
AREA
34408
HEIGHT
24991
29-Jun-2024
12:15
s
zaid



Reason Code:

AFTER

MASS
44
AREA
34408
HEIGHT
24991
29-Jun-2024
12:18
s
zaid

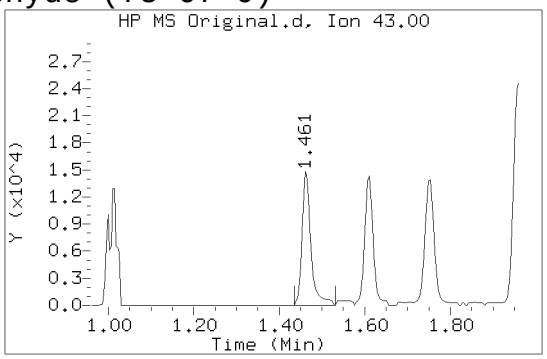


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62007.D
Inj Date : 20-JUN-2024 13:10
InstruID : VOA9.i
LabSampID : VSTD020

Acetaldehyde (75-07-0)

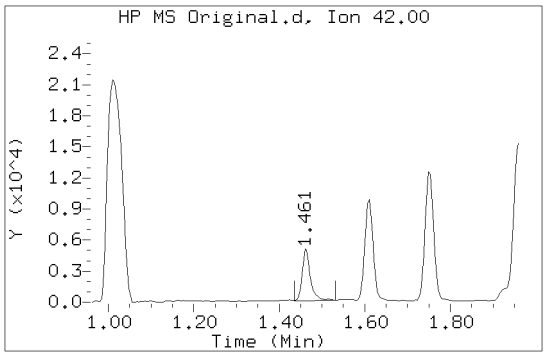
BEFORE

MASS
43
AREA
22041
HEIGHT
14854
29-Jun-2024
12:15
s
zaid



BEFORE

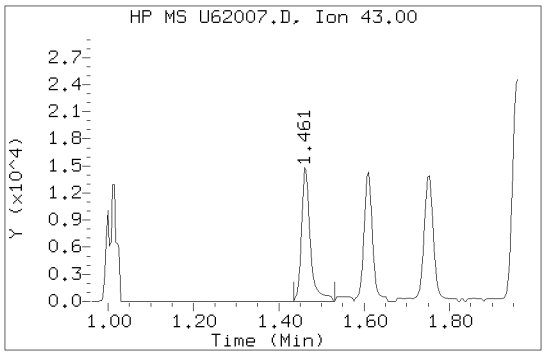
MASS
42
AREA
6820
HEIGHT
4989
29-Jun-2024
12:15
s
zaid



Reason Code:

AFTER

MASS
43
AREA
22041
HEIGHT
14854
29-Jun-2024
12:18
s
zaid



AFTER

MASS
42
AREA
6820
HEIGHT
4989
29-Jun-2024
12:18
s
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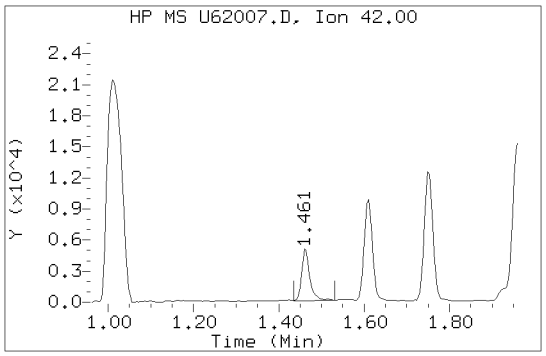
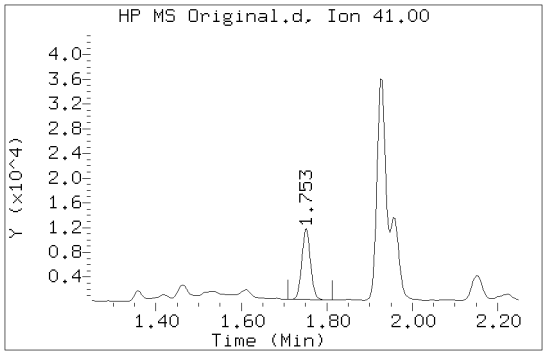


Isobutylene (115-11-7)

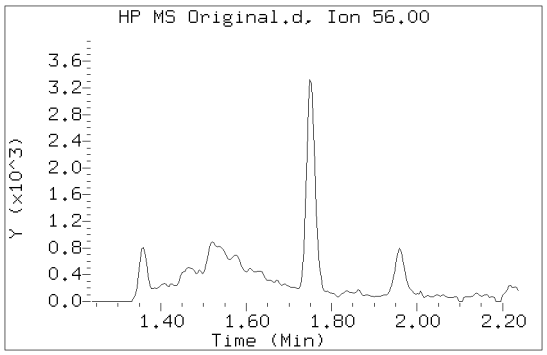
BEFORE

MASS
41
AREA
16468
HEIGHT
11485
29-Jun-2024
12:15
s
zaid



BEFORE

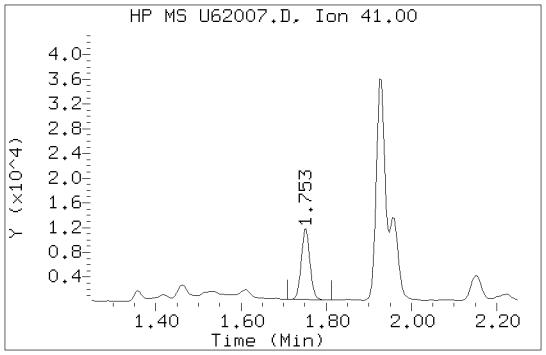
MASS
56
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



Reason Code:

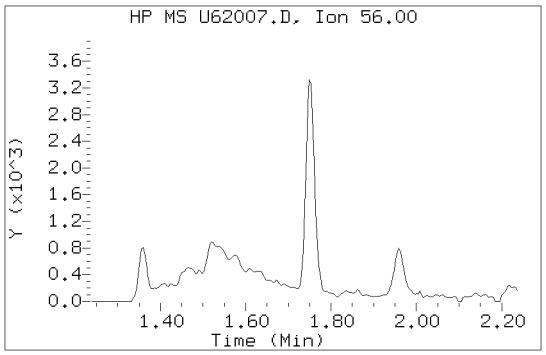
AFTER

MASS
41
AREA
16468
HEIGHT
11485
29-Jun-2024
12:18
s
zaid



AFTER

MASS
56
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



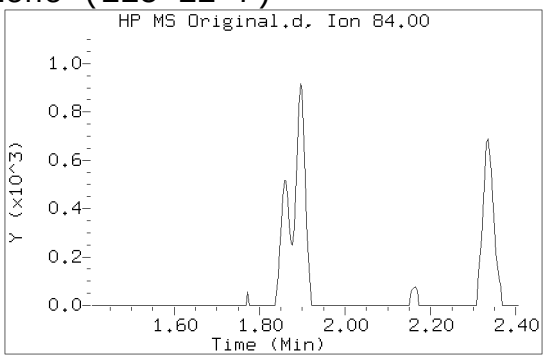
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62007.D
Inj Date : 20-JUN-2024 13:10
InstruID : VOA9.i
LabSampID : VSTD020

Isobutylene (115-11-7)

Reason Code:

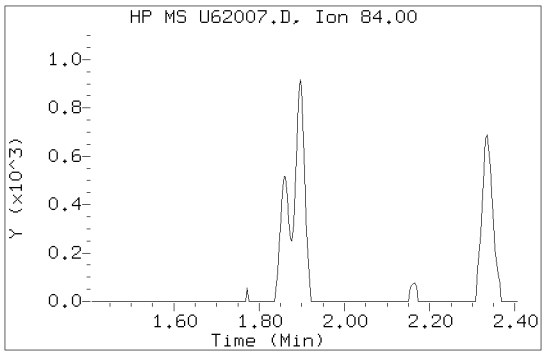
BEFORE

MASS
84
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
84
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid

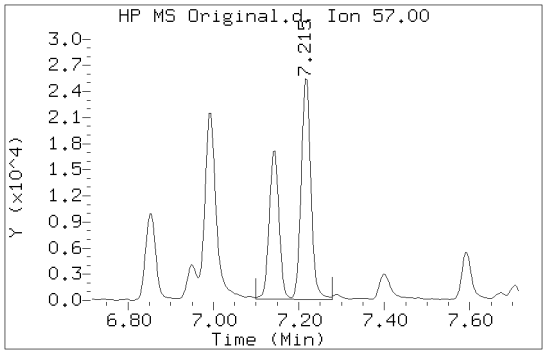


sec-Butyl Ether (6863-58-7)

Reason Code:

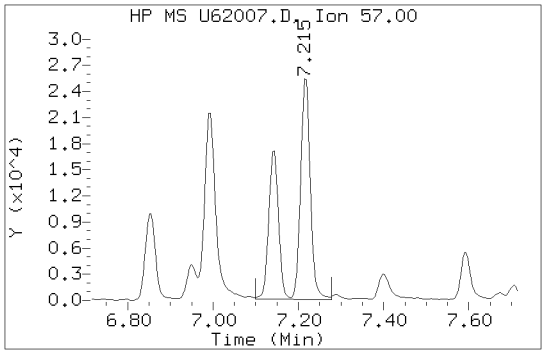
BEFORE

MASS
57
AREA
68567
HEIGHT
25357
29-Jun-2024
12:15
s
zaid



AFTER

MASS
57
AREA
68567
HEIGHT
25357
29-Jun-2024
12:18
s
zaid

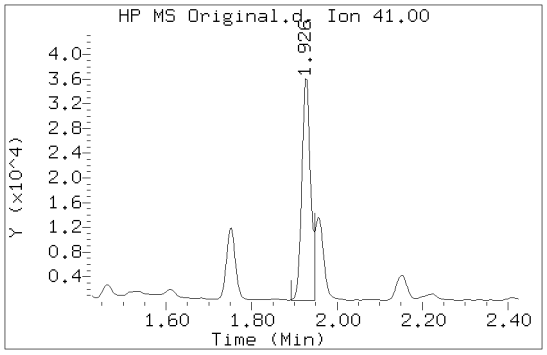


2-Chloropropene (557-98-2)

Reason Code:

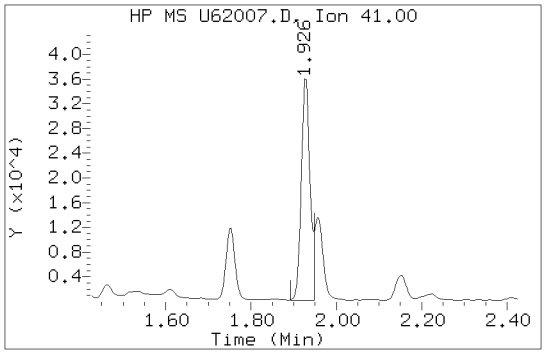
BEFORE

MASS
41
AREA
53299
HEIGHT
35859
29-Jun-2024
12:15
s
zaid



AFTER

MASS
41
AREA
53299
HEIGHT
35859
29-Jun-2024
12:18
s
zaid



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62008.D Page 1
Report Date: 29-Jun-2024 12:15

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62008.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 20-JUN-2024 13:32
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\U240620.b\8260C.m
Meth Date : 29-Jun-2024 12:15 VOA9.i Quant Type: ISTD
Cal Date : 20-JUN-2024 13:10 Cal File: U62007.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: NAHSTW7014

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)	251533	50.0000	
2 Dichlorodifluoromethane	85	1.160	1.160	(0.241)	95581	50.0000	53.20(M)
3 Chloromethane	50	1.292	1.292	(0.268)	198562	50.0000	50.71
4 Propionitrile	54	4.332	4.332	(0.900)	121156	500.000	521.11
5 Vinyl Chloride	62	1.374	1.374	(0.286)	112466	50.0000	50.43(M)
6 Bromomethane	94	1.610	1.610	(0.335)	44204	50.0000	53.17
7 Chloroethane	64	1.693	1.693	(0.352)	72630	50.0000	51.70
8 Trichlorofluoromethane	101	1.888	1.888	(0.392)	126506	50.0000	52.51
9 Acrolein	56	2.259	2.259	(0.469)	8374	100.000	108.06
10 Acetone	43	2.401	2.401	(0.499)	68845	100.000	107.56
11 1,1-Dichloroethene	96	2.326	2.326	(0.484)	72215	50.0000	49.21
12 Isobutyl Alcohol	43	5.280	5.280	(1.097)	241560	1000.00	972.80
13 Acetonitrile	39	2.664	2.664	(0.554)	103396	500.000	538.86
14 Allyl Chloride	41	2.664	2.664	(0.554)	235927	50.0000	52.10
15 Iodomethane	142	2.461	2.461	(0.512)	56866	100.000	98.83
16 Acrylonitrile	53	3.057	3.057	(0.635)	63044	100.000	102.75
17 Methylene Chloride	84	2.787	2.787	(0.579)	91024	50.0000	51.80
18 Methyl tert-butyl ether	73	3.072	3.072	(0.639)	217335	50.0000	50.23
19 Carbon Disulfide	76	2.514	2.514	(0.522)	417910	100.000	103.34
20 trans-1,2-Dichloroethene	96	3.053	3.053	(0.635)	79342	50.0000	51.68

21 Vinyl Acetate	43	4.335	4.335 (0.901)	90820	100.000	103.53
22 1,1-Dichloroethane	63	3.507	3.507 (0.729)	151105	50.0000	51.94

	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)	127812	50.0000	51.23
	24 2-Butanone	43	4.257	4.257	(0.885)	88567	100.000	101.57
	25 Methacrylonitrile	41	4.489	4.489	(0.933)	53283	50.0000	48.43(a)
	26 2,2-Dichloropropane	77	4.174	4.174	(0.868)	116047	50.0000	50.08
	27 cis-1,2-Dichloroethene	96	4.189	4.189	(0.871)	94216	50.0000	51.83
	28 Chloroform	83	4.568	4.568	(0.949)	156020	50.0000	52.50
	29 Bromochloromethane	128	4.463	4.463	(0.928)	46511	50.0000	46.18
$	30 Dibromofluoromethane	113	4.744	4.744	(0.986)	83337	50.0000	49.87
	31 1,1,1-Trichloroethane	97	4.737	4.737	(0.984)	123401	50.0000	52.84
	32 1,1-Dichloropropene	75	4.916	4.916	(0.886)	113090	50.0000	50.81(M)
	33 1,2-Dichloroethane	62	5.171	5.171	(0.932)	124711	50.0000	52.77
	34 Carbon Tetrachloride	117	4.905	4.905	(0.884)	97926	50.0000	52.49(M)
$	35 1,2-Dichloroethane-d4	65	5.093	5.093	(1.058)	104164	50.0000	48.87
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	364835	50.0000	
	37 Benzene	78	5.134	5.134	(0.925)	353922	50.0000	47.13
	38 Trichloroethene	130	5.786	5.786	(1.043)	88882	50.0000	48.77
	39 Bromodichloromethane	83	6.274	6.274	(1.130)	110174	50.0000	51.91
	40 Methyl Methacrylate	41	5.816	5.816	(1.209)	33074	50.0000	50.24
	41 2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	4138	100.000	84.69
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	94773	50.0000	47.65
	43 2-Nitropropane	43	6.506	6.506	(1.352)	20359	50.0000	51.19(M)
	44 Dibromomethane	93	6.116	6.116	(1.102)	55849	50.0000	48.11
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	180902	100.000	99.97
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	131407	50.0000	52.99
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	328344	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.845)	316762	50.0000	49.70
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	111847	50.0000	48.27
	50 Toluene	91	6.978	6.978	(0.853)	382286	50.0000	51.13
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	107819	50.0000	48.06
	52 2-Hexanone	43	7.214	7.214	(0.881)	120971	100.000	99.51
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	69697	50.0000	48.21
	54 1,3-Dichloropropane	76	7.496	7.496	(0.916)	150157	50.0000	49.42
	55 Dibromochloromethane	129	7.691	7.691	(0.940)	84122	50.0000	55.77
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	73011	50.0000	52.18
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	82175	50.0000	51.49
	58 1-Chlorohexane	55	8.197	8.197	(1.477)	67624	50.0000	48.11
	59 Chlorobenzene	112	8.208	8.208	(1.003)	241338	50.0000	53.15
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	82559	50.0000	51.40
	61 Ethylbenzene	106	8.305	8.305	(1.015)	121960	50.0000	52.71
	62 m,p-Xylenes	106	8.407	8.407	(1.027)	308644	100.000	111.73
	63 o-Xylene	106	8.748	8.748	(1.069)	153135	50.0000	56.25
	64 Styrene	104	8.763	8.763	(1.071)	252469	50.0000	55.47
	66 Bromoform	173	8.916	8.916	(1.089)	51889	50.0000	50.56
	67 Isopropylbenzene	105	9.063	9.063	(1.107)	377003	50.0000	55.82
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	117242	50.0000	52.52
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	118236	50.0000	47.21
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	181042	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	113449	50.0000	49.75
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	23395	50.0000	50.98
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	444263	50.0000	56.74
	74 Bromobenzene	156	9.317	9.317	(0.916)	105687	50.0000	49.68
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	297172	50.0000	49.81

76	2-Chlorotoluene	91	9.482	9.482 (0.932)	271684	50.0000	51.28
77	4-Chlorotoluene	91	9.576	9.576 (0.941)	314925	50.0000	52.37

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62008.D Page 3
Report Date: 29-Jun-2024 12:15

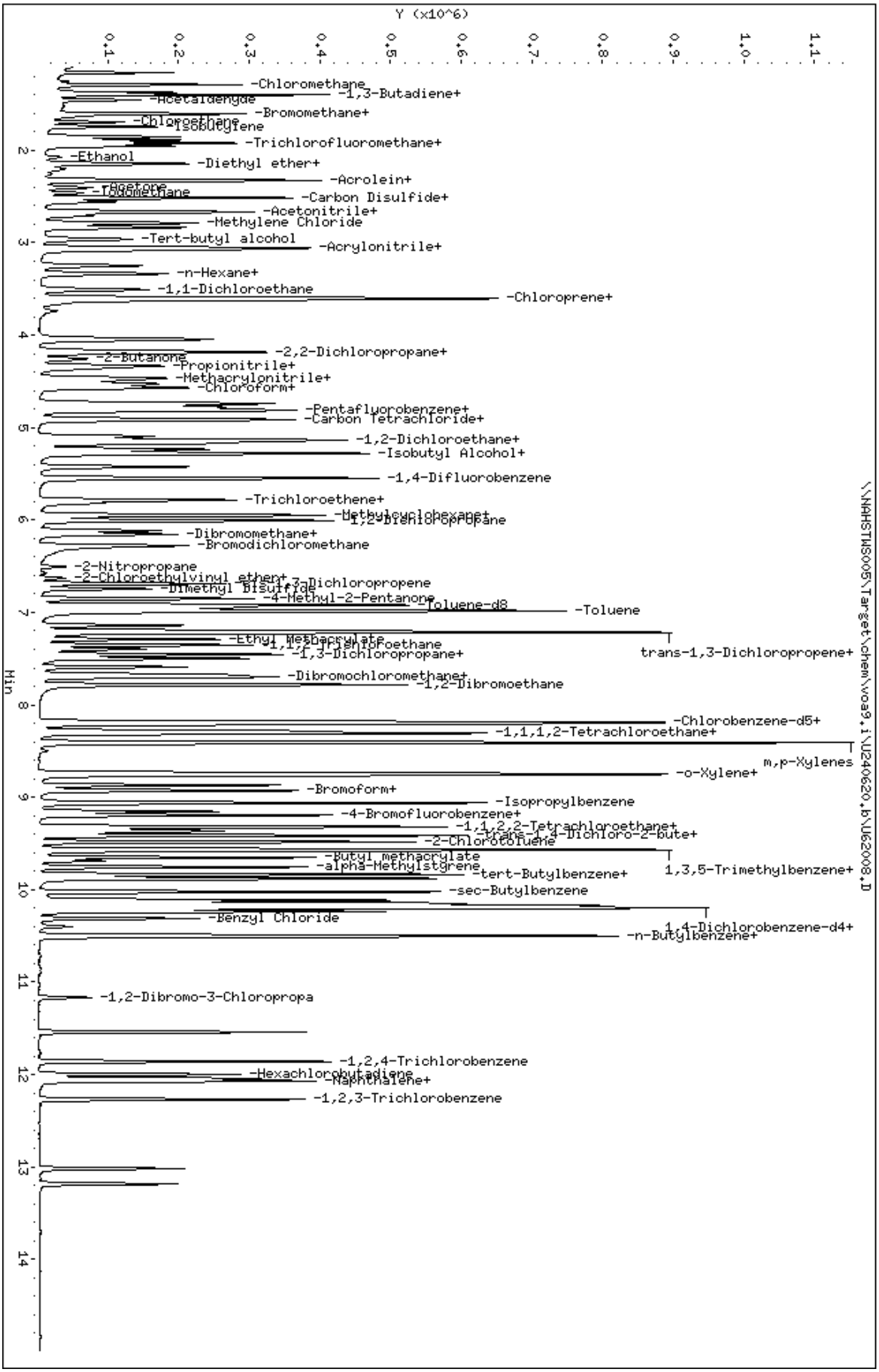
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.839	9.839	(0.967)	268164	50.0000	56.20
79	1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	283362	50.0000	49.18(M)
81	sec-Butylbenzene	105	10.022	10.022	(0.985)	355249	50.0000	55.90
82	p-Isopropyltoluene	119	10.146	10.146	(0.997)	303882	50.0000	49.64
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	191762	50.0000	48.99
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	197609	50.0000	52.76
86	Benzyl Chloride	91	10.311	10.311	(1.260)	146462	50.0000	48.63
87	n-Butylbenzene	91	10.495	10.495	(1.032)	267172	50.0000	49.12
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	187552	50.0000	48.12
89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	14223	50.0000	50.85
90	1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	120231	50.0000	50.99
91	Hexachlorobutadiene	225	12.002	12.002	(1.180)	52536	50.0000	50.25
92	Naphthalene	128	12.069	12.069	(1.186)	267603	50.0000	48.70
93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	111038	50.0000	51.43
146	Methyl acetate	43	2.705	2.705	(0.562)	69683	50.0000	53.74
138	Freon TF	101	2.330	2.330	(0.484)	69509	50.0000	51.49
141	Cyclohexane	56	4.778	4.778	(0.993)	121140	50.0000	49.94
142	Tetrahydrofuran	42	4.534	4.534	(0.942)	32150	100.000	107.92
147	Methylcyclohexane	55	5.944	5.944	(1.071)	204304	50.0000	52.73
135	1,4-Dioxane	88	6.165	6.165	(1.281)	20352	1000.00	1072.95
132	n-Butanol	56	5.816	5.816	(1.209)	46172	1000.00	1006.85
136	n-Hexane	57	3.335	3.335	(0.693)	86543	50.0000	53.65
139	Diethyl ether	59	2.139	2.139	(0.445)	64595	50.0000	53.02
148	Tert-butyl alcohol	59	2.960	2.960	(0.615)	146048	1000.00	1014.63
149	Isopropyl alcohol	45	2.555	2.555	(0.531)	113863	1000.00	1028.60
156	Diisopropyl ether	45	3.612	3.612	(0.751)	286139	50.0000	47.16
162	Butyl acrylate	55	8.733	8.733	(1.067)	149657	50.0000	49.51
164	Dicyclopentadiene	66	10.202	10.202	(1.003)	387581	50.0000	49.44
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	254707	50.0000	49.19
167	Ethanol	45	2.075	2.075	(0.431)	22141	1000.00	1040.84
172	tert-Butyl formate	59	5.235	5.235	(1.088)	124383	100.000	99.82
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	488444	1000.00	970.78
140	1,3-Butadiene	54	1.396	1.396	(0.290)	110594	50.0000	51.20
182	Epichlorohydrin	57	6.630	6.630	(1.195)	12486	200.000	196.27
M 94	1,2-Dichloroethylene (total)	96				173558	100.000	(a)
145	alpha-Methylstyrene	118	9.756	9.756	(0.959)	103865	50.0000	49.71
130	Ethyl Acetate	43	4.527	4.527	(0.941)	32325	50.0000	54.72(M)
131	Methyl Acrylate	55	4.362	4.362	(0.907)	98161	50.0000	47.08
189	n-Butyl acetate	43	7.702	7.702	(0.941)	134988	50.0000	51.56
134	Cyclohexanone	55	9.153	9.153	(0.900)	95172	1000.00	1019.59
185	Isoprene	39	2.150	2.150	(0.447)	18948	50.0000	51.88
188	Isopropyl acetate	43	5.280	5.280	(0.951)	241206	50.0000	49.44
150	Allyl alcohol	57	3.335	3.335	(0.693)	86543	1000.00	1073.18
194	Acetaldehyde	44	1.456	1.456	(0.303)	84508	200.000	200.98(M)
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	62950	50.0000	51.26
202	Isobutylene	41	1.745	1.745	(0.363)	41377	50.0000	49.35(M)
133	Ethyl Acrylate	55	5.944	5.944	(1.235)	204304	50.0000	51.63
163	Butyl methacrylate	41	9.647	9.647	(0.948)	101877	50.0000	55.58
159	Propylene oxide	43	2.195	2.195	(0.456)	10837	100.000	94.30
178	Ethylene oxide	44	1.603	1.603	(0.333)	193428	100.000	103.58(M)
203	2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	98009	50.0000	49.81
204	Tetrahydrothiophene	60	7.672	7.672	(0.937)	94568	50.0000	50.68(A)

205 sec-Butyl Ether	57	7.214	7.214 (0.881)	172514	50.0000	47.02(AM)
187 n-Amyl acetate	43	8.931	8.931 (1.091)	145610	50.0000	50.12

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
206 2-Chloropropene	41	1.921	1.921	(0.399)	131745	50.0000	51.02(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: WOA9,i
Operator: TS
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Inj Date : 20-JUN-2024 13:32
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LabSampID : VSTD050

Dichlorodifluoromethane (75-71-8)

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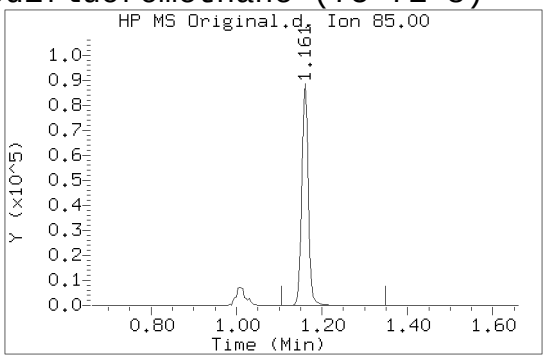

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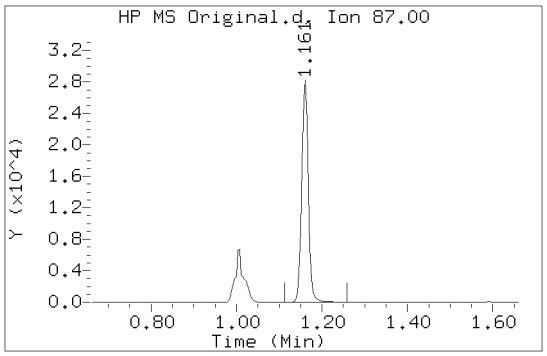

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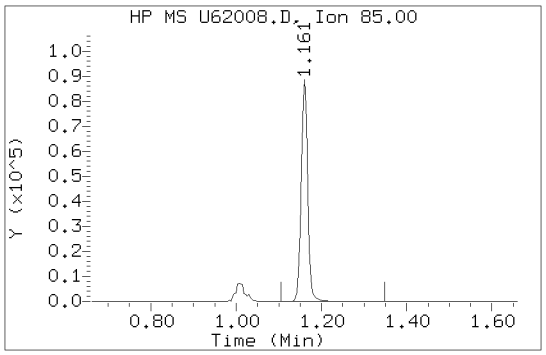

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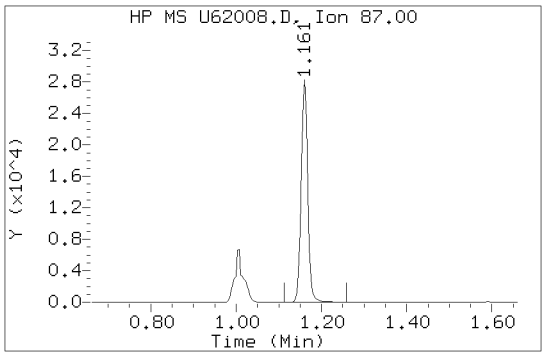

Vinyl Chloride (75-01-4)

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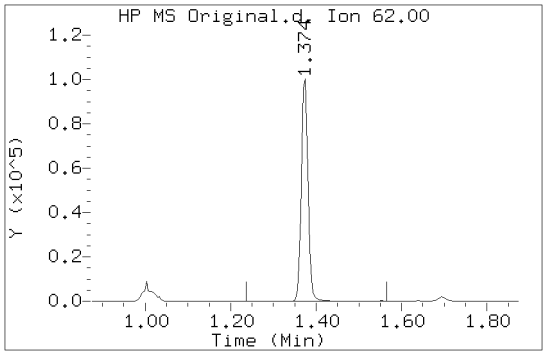

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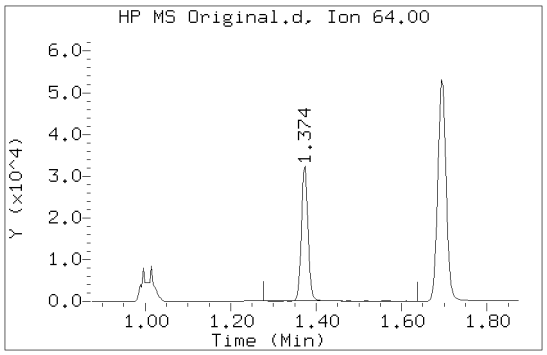

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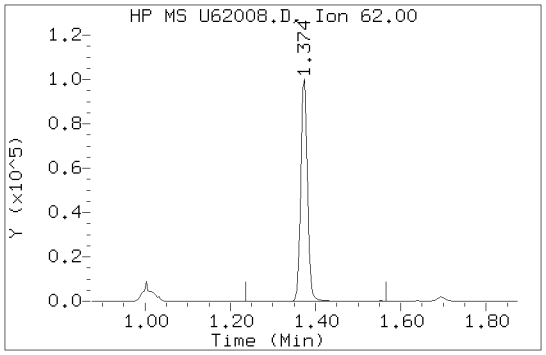

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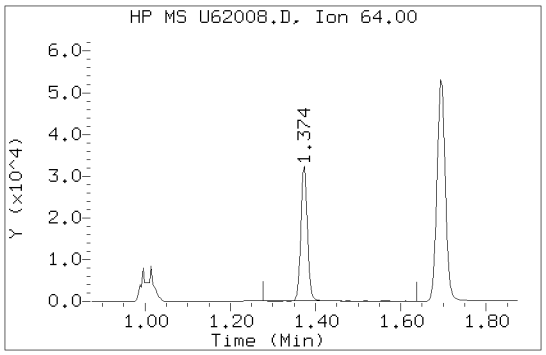

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LabSampID : VSTD050

1,1-Dichloropropene (563-58-6)

Reason Code:

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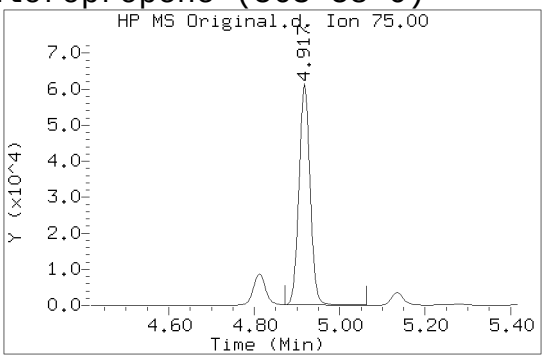

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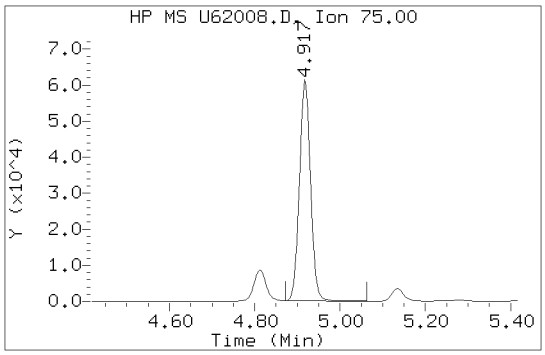

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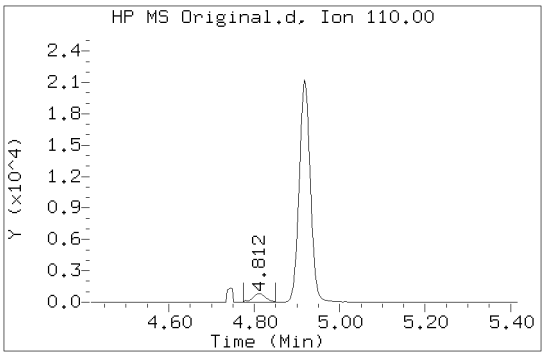

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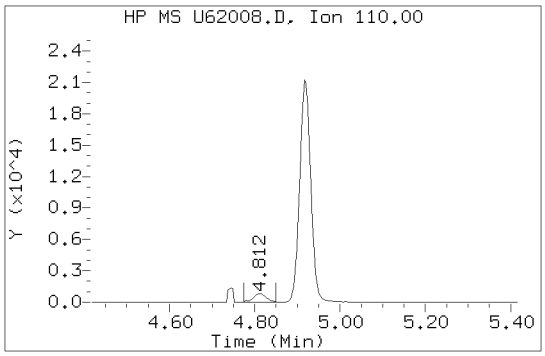

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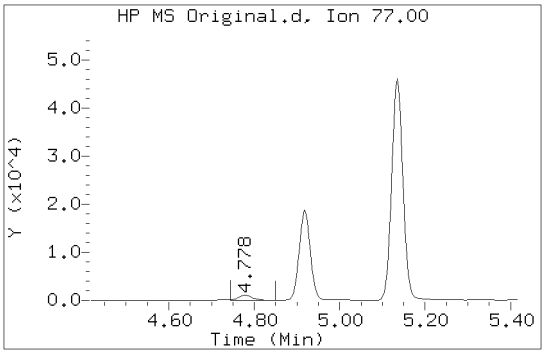
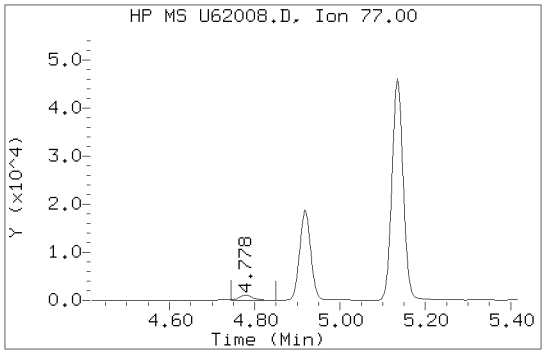


AFTER

MASS
77
AREA
2486
HEIGHT
1025
29-Jun-2024
12:15
s
zaid

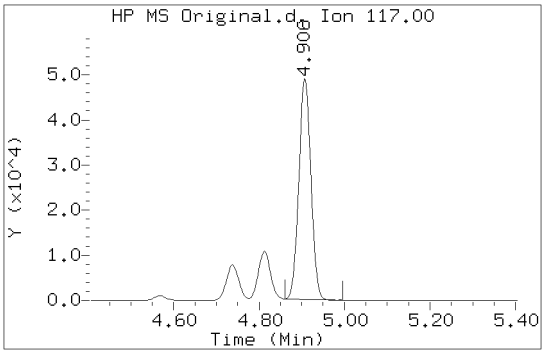


Carbon Tetrachloride (56-23-5)

Reason Code:

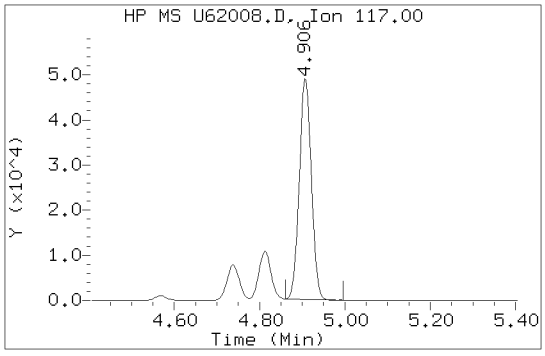
BEFORE

MASS
117
AREA
97926
HEIGHT
48968
29-Jun-2024
12:15
s
zaid



AFTER

MASS
117
AREA
97926
HEIGHT
48968
29-Jun-2024
12:15
s
zaid



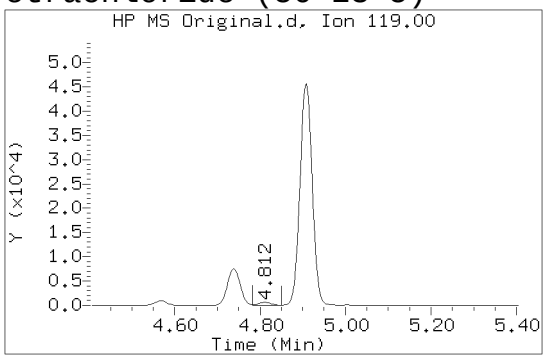
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62008.D
Inj Date : 20-JUN-2024 13:32
InstruID : VOA9.i
LabSampID : VSTD050

Carbon Tetrachloride (56-23-5)

Reason Code:

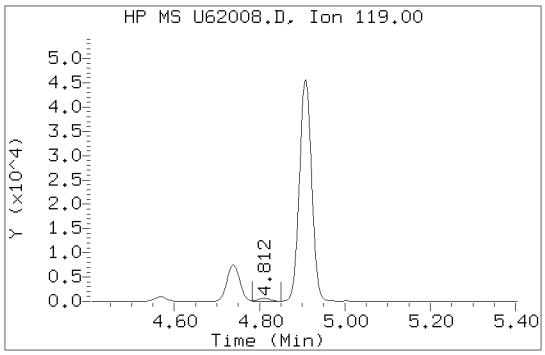
BEFORE

MASS
119
AREA
1223
HEIGHT
612
29-Jun-2024
12:15
s
zaid



AFTER

MASS
119
AREA
1223
HEIGHT
612
29-Jun-2024
12:15
s
zaid

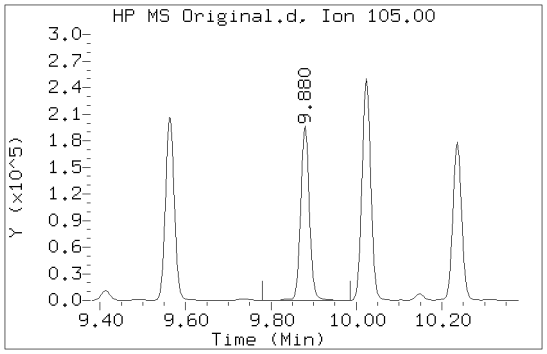


1,2,4-Trimethylbenzene (95-63-6)

Reason Code:

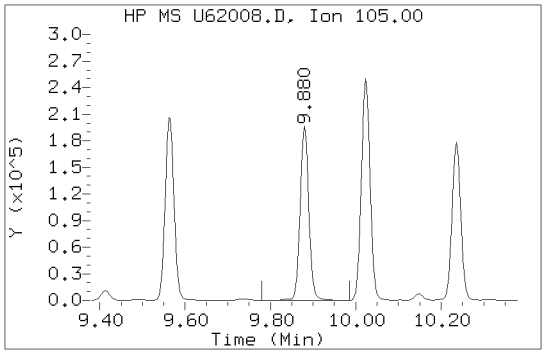
BEFORE

MASS
105
AREA
283362
HEIGHT
196556
29-Jun-2024
12:15
s
zaid



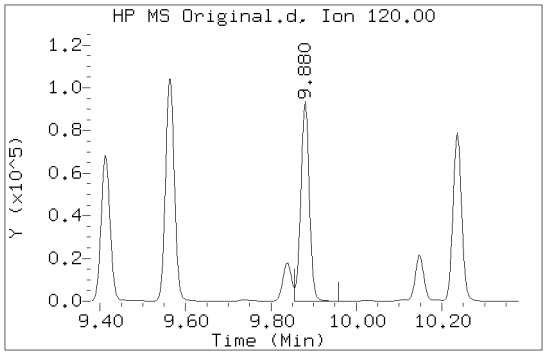
AFTER

MASS
105
AREA
283362
HEIGHT
196556
29-Jun-2024
12:15
s
zaid



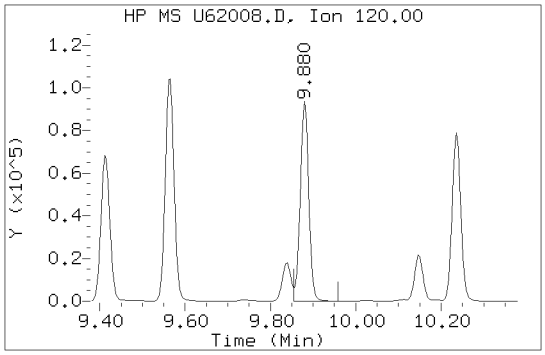
BEFORE

MASS
120
AREA
132987
HEIGHT
93592
29-Jun-2024
12:15
s
zaid



AFTER

MASS
120
AREA
132987
HEIGHT
93592
29-Jun-2024
12:15
s
zaid

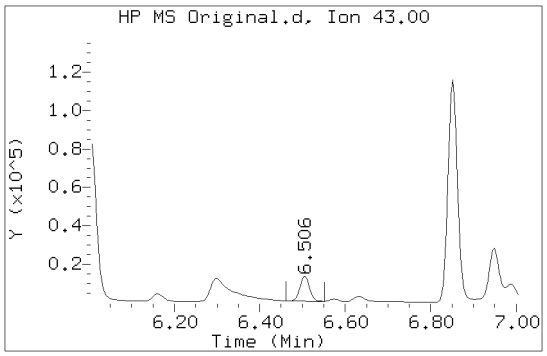


2-Nitropropane (79-46-9)

Reason Code:

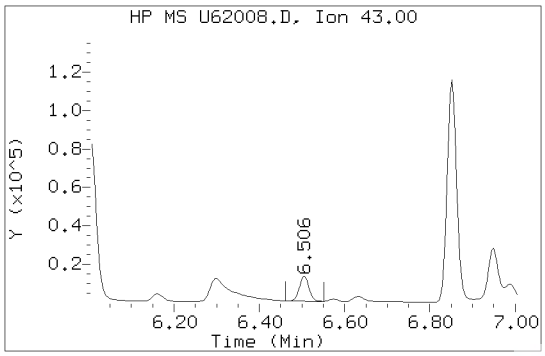
BEFORE

MASS
43
AREA
20359
HEIGHT
12940
29-Jun-2024
12:15
s
zaid



AFTER

MASS
43
AREA
20359
HEIGHT
12940
29-Jun-2024
12:15
s
zaid



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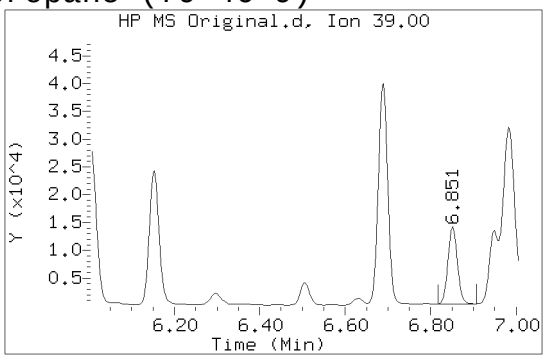
Inj Date : 20-JUN-2024 13:32
InstruID : VOA9.i
LabSampID : VSTD050

2-Nitropropane (79-46-9)

Reason Code:

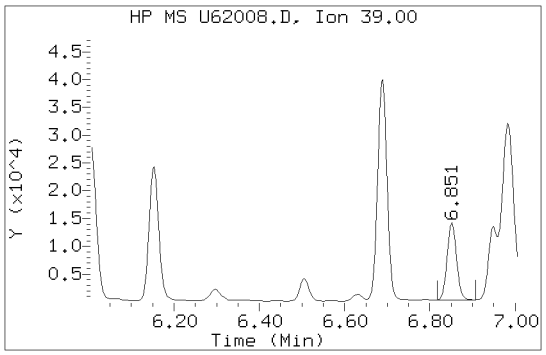
BEFORE

MASS
39
AREA
21437
HEIGHT
13970
29-Jun-2024
12:15
s
zaid



AFTER

MASS
39
AREA
21437
HEIGHT
13970
29-Jun-2024
12:15
s
zaid

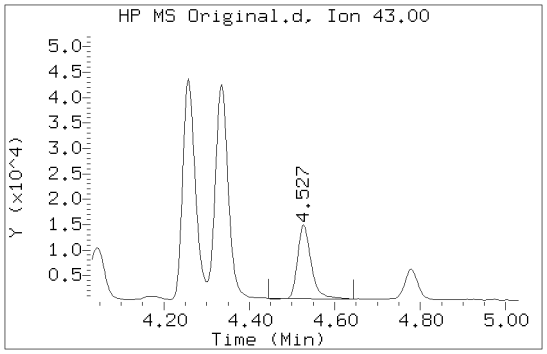


Ethyl Acetate (141-78-6)

Reason Code:

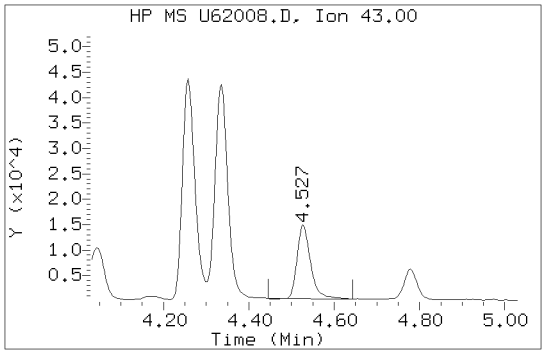
BEFORE

MASS
43
AREA
32325
HEIGHT
14524
29-Jun-2024
12:15
s
zaid



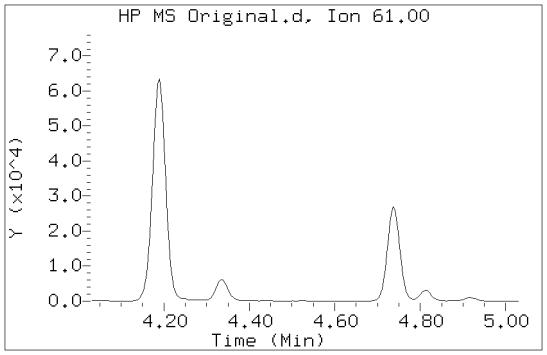
AFTER

MASS
43
AREA
32325
HEIGHT
14524
29-Jun-2024
12:15
s
zaid



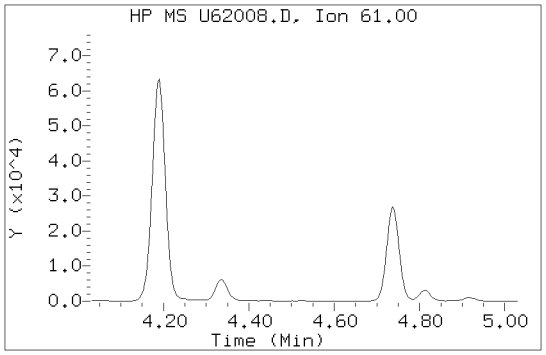
BEFORE

MASS
61
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



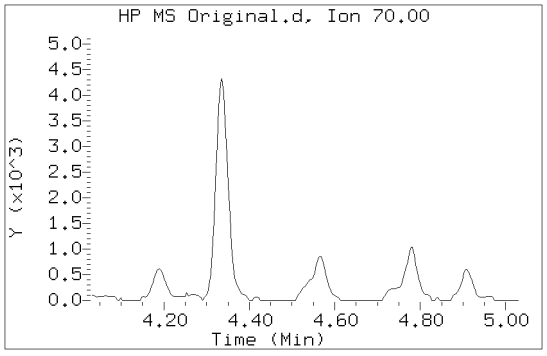
AFTER

MASS
61
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



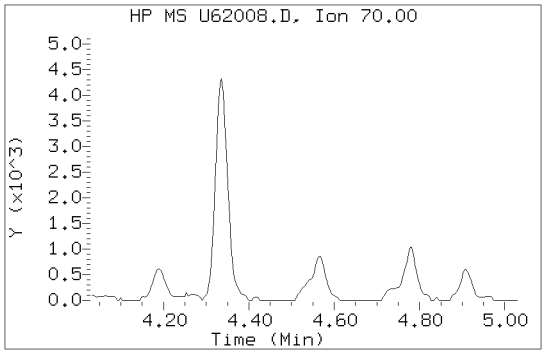
BEFORE

MASS
70
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
70
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



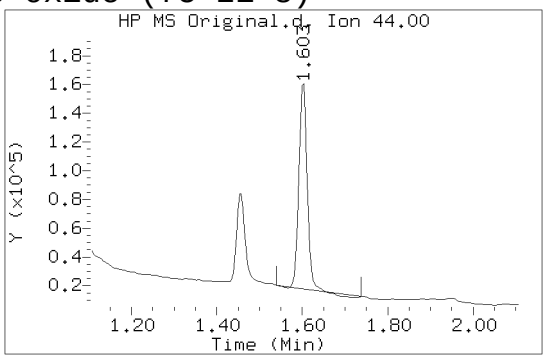
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62008.D
Inj Date : 20-JUN-2024 13:32
InstruID : VOA9.i
LabSampID : VSTD050

Ethylene oxide (75-21-8)

Reason Code:

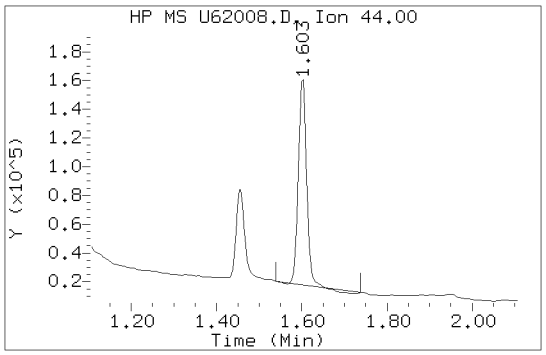
BEFORE

MASS
44
AREA
193428
HEIGHT
142755
29-Jun-2024
12:15
s
zaid



AFTER

MASS
44
AREA
193428
HEIGHT
142755
29-Jun-2024
12:15
s
zaid

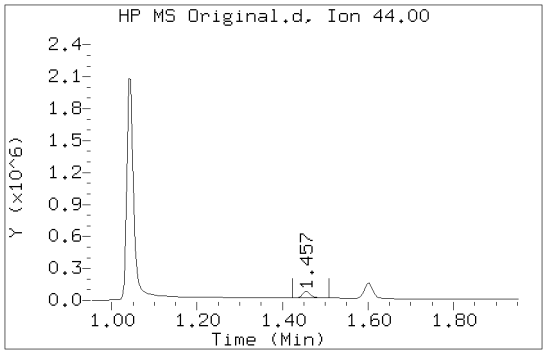


Acetaldehyde (75-07-0)

Reason Code:

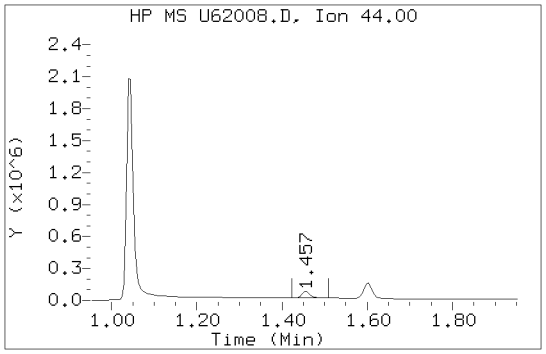
BEFORE

MASS
44
AREA
84508
HEIGHT
61527
29-Jun-2024
12:15
s
zaid



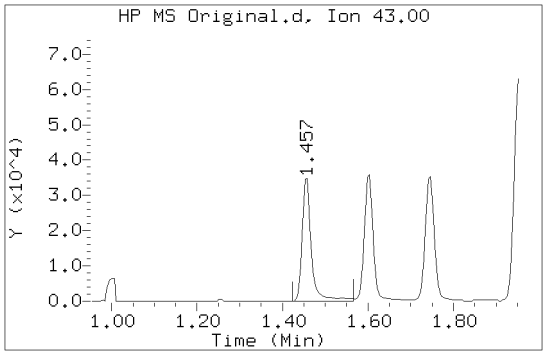
AFTER

MASS
44
AREA
84508
HEIGHT
61527
29-Jun-2024
12:15
s
zaid



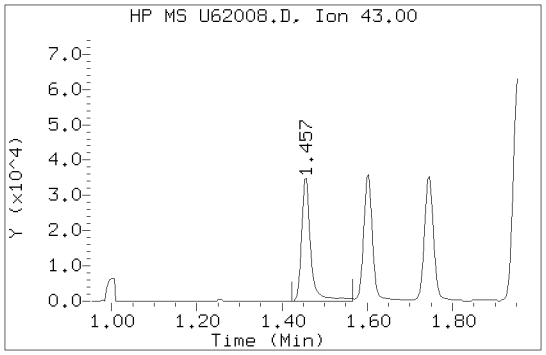
BEFORE

MASS
43
AREA
53691
HEIGHT
34856
29-Jun-2024
12:15
s
zaid



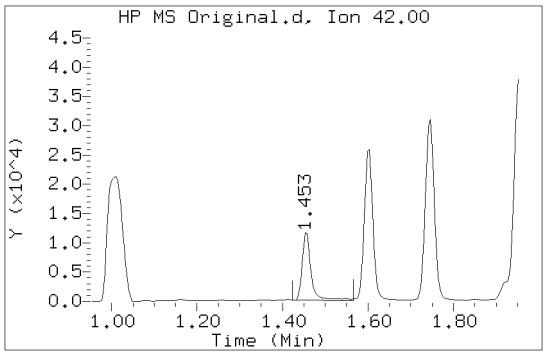
AFTER

MASS
43
AREA
53691
HEIGHT
34856
29-Jun-2024
12:15
s
zaid



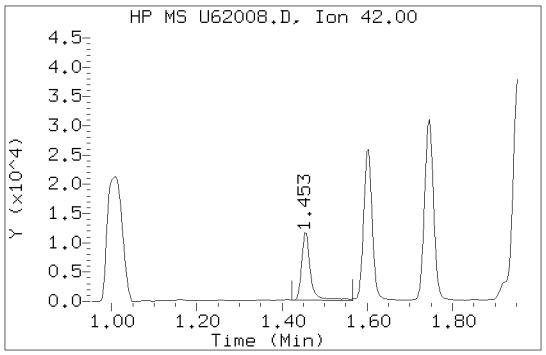
BEFORE

MASS
42
AREA
17055
HEIGHT
11495
29-Jun-2024
12:15
s
zaid



AFTER

MASS
42
AREA
17055
HEIGHT
11495
29-Jun-2024
12:15
s
zaid

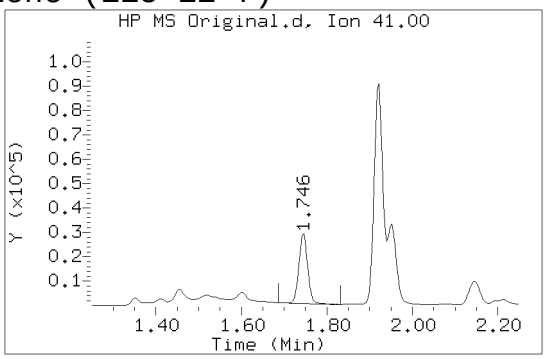


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62008.D
Inj Date : 20-JUN-2024 13:32
InstruID : VOA9.i
LabSampID : VSTD050

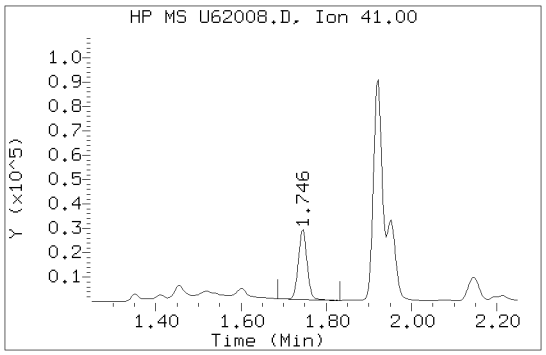
Isobutylene (115-11-7)

Reason Code:

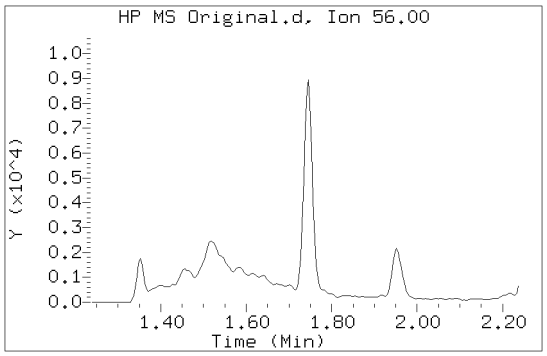
BEFORE
MASS
41
AREA
41377
HEIGHT
28761
29-Jun-2024
12:15
s
zaid



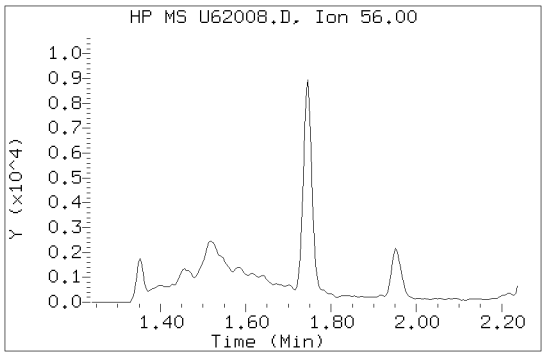
AFTER
MASS
41
AREA
41377
HEIGHT
28761
29-Jun-2024
12:15
s
zaid



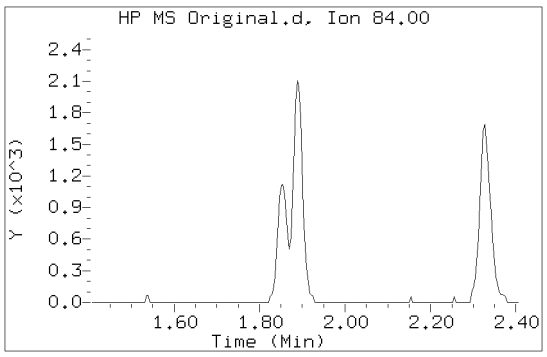
BEFORE
MASS
56
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



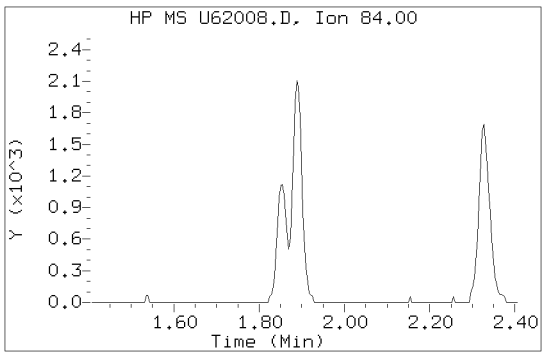
AFTER
MASS
56
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



BEFORE
MASS
84
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



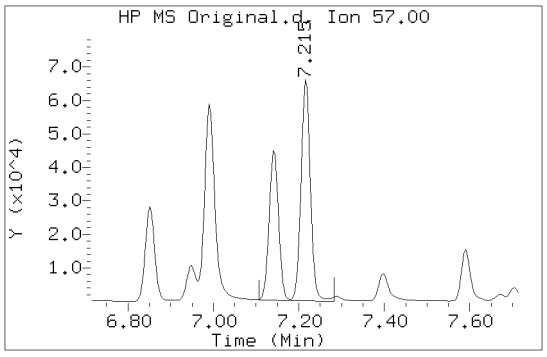
AFTER
MASS
84
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



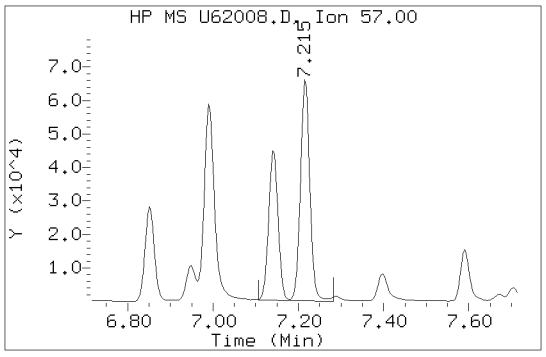
sec-Butyl Ether (6863-58-7)

Reason Code:

BEFORE
MASS
57
AREA
172514
HEIGHT
66021
29-Jun-2024
12:15
s
zaid



AFTER
MASS
57
AREA
172514
HEIGHT
66021
29-Jun-2024
12:15
s
zaid



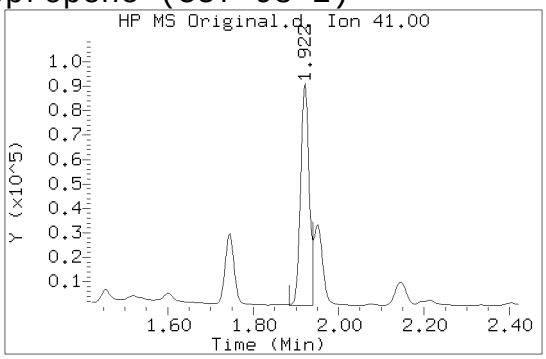
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62008.D
Inj Date : 20-JUN-2024 13:32
InstruID : VOA9.i
LabSampID : VSTD050

2-Chloropropene (557-98-2)

Reason Code:

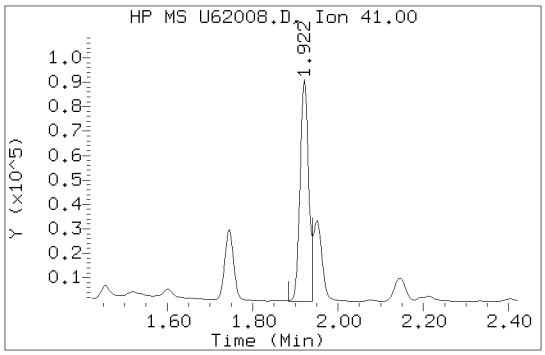
BEFORE

MASS
41
AREA
131745
HEIGHT
90667
29-Jun-2024
12:15
s
zaid



AFTER

MASS
41
AREA
131745
HEIGHT
90667
29-Jun-2024
12:15
s
zaid



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62009.D Page 1
Report Date: 29-Jun-2024 12:19

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62009.D
Lab Smp Id: VSTD100 Client Smp ID: VSTD100
Inj Date : 20-JUN-2024 13:53
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\U240620.b\8260C.m
Meth Date : 29-Jun-2024 12:19 VOA9.i Quant Type: ISTD
Cal Date : 20-JUN-2024 13:10 Cal File: U62007.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: NAHSTW7014

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)	247855	50.0000	
2 Dichlorodifluoromethane	85	1.171	1.171	(0.243)	176654	100.000	99.79(M)
3 Chloromethane	50	1.303	1.303	(0.270)	359325	100.000	98.24
4 Propionitrile	54	4.339	4.339	(0.900)	233070	1000.00	1006.44
5 Vinyl Chloride	62	1.385	1.385	(0.287)	214186	100.000	97.35(M)
6 Bromomethane	94	1.621	1.621	(0.337)	79022	100.000	96.02
7 Chloroethane	64	1.704	1.704	(0.354)	133622	100.000	97.72
8 Trichlorofluoromethane	101	1.902	1.902	(0.395)	240632	100.000	101.36
9 Acrolein	56	2.270	2.270	(0.471)	15190	200.000	196.94
10 Acetone	43	2.412	2.412	(0.501)	133780	200.000	219.71
11 1,1-Dichloroethene	96	2.337	2.337	(0.485)	136391	100.000	94.32
12 Isobutyl Alcohol	43	5.284	5.284	(1.096)	467797	2000.00	1911.86
13 Acetonitrile	39	2.675	2.675	(0.555)	192653	1000.00	1028.24
14 Allyl Chloride	41	2.678	2.678	(0.556)	444263	100.000	100.98
15 Iodomethane	142	2.472	2.472	(0.513)	128699	200.000	201.75
16 Acrylonitrile	53	3.068	3.068	(0.637)	118455	200.000	196.39
17 Methylene Chloride	84	2.798	2.798	(0.581)	159588	100.000	95.92
18 Methyl tert-butyl ether	73	3.087	3.087	(0.641)	417535	100.000	97.54
19 Carbon Disulfide	76	2.525	2.525	(0.524)	796100	200.000	199.79
20 trans-1,2-Dichloroethene	96	3.064	3.064	(0.636)	147881	100.000	98.28

21 Vinyl Acetate	43	4.343	4.343 (0.901)	169891	200.000	196.83
22 1,1-Dichloroethane	63	3.518	3.518 (0.730)	280383	100.000	98.51

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	3.616	3.616	(0.750)	239330	100.000	97.58
	24 2-Butanone	43	4.264	4.264	(0.885)	168677	200.000	196.19
	25 Methacrylonitrile	41	4.496	4.496	(0.933)	109481	100.000	100.62(a)
	26 2,2-Dichloropropane	77	4.185	4.185	(0.869)	221563	100.000	96.52
	27 cis-1,2-Dichloroethene	96	4.200	4.200	(0.872)	175084	100.000	98.06
	28 Chloroform	83	4.575	4.575	(0.949)	287623	100.000	99.00
	29 Bromochloromethane	128	4.470	4.470	(0.928)	87433	100.000	88.11
$	30 Dibromofluoromethane	113	4.751	4.751	(0.986)	159953	100.000	97.15
	31 1,1,1-Trichloroethane	97	4.744	4.744	(0.984)	234507	100.000	101.90
	32 1,1-Dichloropropene	75	4.924	4.924	(0.887)	215500	100.000	98.16(M)
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	229280	100.000	99.34
	34 Carbon Tetrachloride	117	4.913	4.913	(0.885)	192077	100.000	104.39(M)
$	35 1,2-Dichloroethane-d4	65	5.100	5.100	(1.058)	196850	100.000	93.74
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	359862	50.0000	
	37 Benzene	78	5.141	5.141	(0.926)	650901	100.000	87.88
	38 Trichloroethene	130	5.790	5.790	(1.043)	168252	100.000	93.61
	39 Bromodichloromethane	83	6.277	6.277	(1.130)	209279	100.000	99.97
	40 Methyl Methacrylate	41	5.820	5.820	(1.208)	67419	100.000	103.94
	41 2-Chloroethylvinyl ether	63	6.577	6.577	(1.184)	12610	200.000	206.99
	42 1,2-Dichloropropane	63	6.011	6.011	(1.082)	176759	100.000	90.10
	43 2-Nitropropane	43	6.510	6.510	(1.351)	41085	100.000	104.84(M)
	44 Dibromomethane	93	6.120	6.120	(1.102)	103281	100.000	90.19
	45 4-Methyl-2-Pentanone	43	6.854	6.854	(0.837)	350768	200.000	192.85
	46 cis-1,3-Dichloropropene	75	6.689	6.689	(1.205)	257388	100.000	105.24
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	330032	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	607305	100.000	94.80
	49 Ethyl Methacrylate	69	7.289	7.289	(1.312)	223942	100.000	97.98
	50 Toluene	91	6.982	6.982	(0.853)	703496	100.000	93.61
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	213403	100.000	94.22
	52 2-Hexanone	43	7.218	7.218	(0.882)	232489	200.000	191.07
	53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	128815	100.000	88.65
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	275864	100.000	90.33
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	165169	100.000	108.95
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	135713	100.000	96.49
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	153863	100.000	95.92
	58 1-Chlorohexane	55	8.196	8.196	(1.476)	128328	100.000	93.24
	59 Chlorobenzene	112	8.211	8.211	(1.003)	439831	100.000	97.00
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	157278	100.000	97.42
	61 Ethylbenzene	106	8.309	8.309	(1.015)	227251	100.000	97.72
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	574673	200.000	206.97
	63 o-Xylene	106	8.747	8.747	(1.069)	281173	100.000	102.76
	64 Styrene	104	8.762	8.762	(1.071)	484409	100.000	105.89
	66 Bromoform	173	8.920	8.920	(1.090)	106443	100.000	98.15
	67 Isopropylbenzene	105	9.062	9.062	(1.107)	716163	100.000	105.50
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	217556	100.000	97.15
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	230325	100.000	91.51
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	182129	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	220140	100.000	95.20
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	45120	100.000	97.83
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	817929	100.000	103.85
	74 Bromobenzene	156	9.317	9.317	(0.916)	197434	100.000	92.26
	75 1,3,5-Trimethylbenzene	105	9.565	9.565	(0.940)	586805	100.000	96.15

76	2-Chlorotoluene	91	9.482	9.482 (0.932)	502095	100.000	94.20
77	4-Chlorotoluene	91	9.576	9.576 (0.941)	587704	100.000	97.15

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62009.D Page 3
Report Date: 29-Jun-2024 12:19

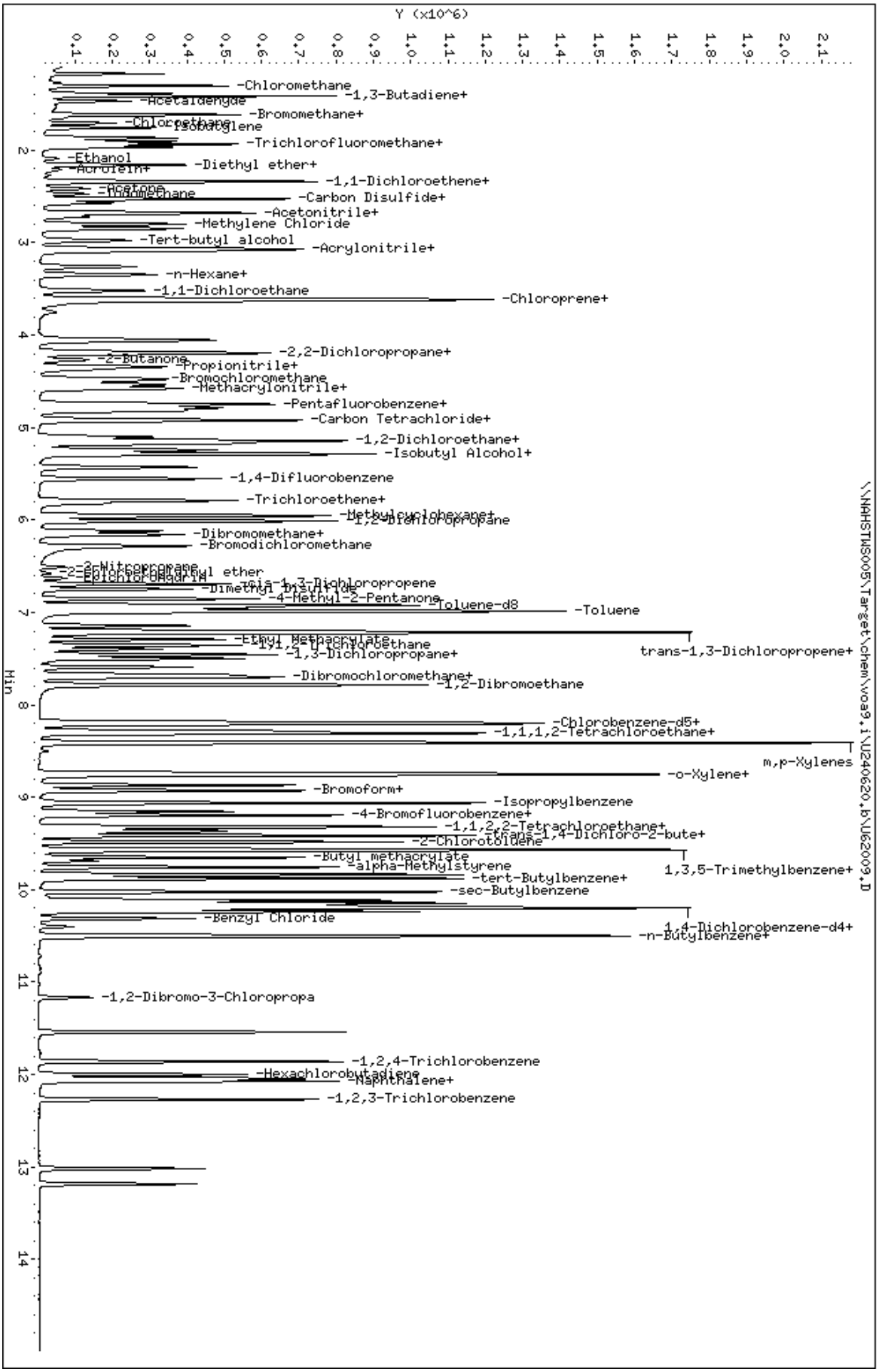
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.838	9.838	(0.967)	505818	100.000	105.37
79	1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	557088	100.000	96.12(M)
81	sec-Butylbenzene	105	10.022	10.022	(0.985)	683448	100.000	106.91
82	p-Isopropyltoluene	119	10.146	10.146	(0.997)	597283	100.000	95.41
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	354480	100.000	90.03
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	365510	100.000	97.54
86	Benzyl Chloride	91	10.311	10.311	(1.260)	265629	100.000	92.12
87	n-Butylbenzene	91	10.494	10.494	(1.032)	534334	100.000	96.31
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	347261	100.000	88.58
89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	29112	100.000	98.40
90	1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	238981	100.000	100.76
91	Hexachlorobutadiene	225	12.001	12.001	(1.180)	103114	100.000	98.05
92	Naphthalene	128	12.069	12.069	(1.186)	549668	100.000	97.40
93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	216756	100.000	99.81
146	Methyl acetate	43	2.720	2.720	(0.564)	129001	100.000	103.24
138	Freon TF	101	2.341	2.341	(0.486)	132225	100.000	99.90
141	Cyclohexane	56	4.785	4.785	(0.993)	228460	100.000	96.47
142	Tetrahydrofuran	42	4.541	4.541	(0.942)	61276	200.000	208.74
147	Methylcyclohexane	55	5.947	5.947	(1.071)	403390	100.000	105.56(A)
135	1,4-Dioxane	88	6.168	6.168	(1.280)	38441	2000.00	2029.31
132	n-Butanol	56	5.824	5.824	(1.208)	94987	2000.00	2009.25
136	n-Hexane	57	3.346	3.346	(0.694)	155405	100.000	97.78
139	Diethyl ether	59	2.150	2.150	(0.446)	123190	100.000	103.55
148	Tert-butyl alcohol	59	2.974	2.974	(0.617)	280071	2000.00	1986.51
149	Isopropyl alcohol	45	2.570	2.570	(0.533)	219355	2000.00	2025.63
156	Diisopropyl ether	45	3.623	3.623	(0.752)	539937	100.000	90.31
162	Butyl acrylate	55	8.732	8.732	(1.067)	305461	100.000	100.54
164	Dicyclopentadiene	66	10.202	10.202	(1.003)	755744	100.000	95.83
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	527417	100.000	101.24
167	Ethanol	45	2.090	2.090	(0.434)	42645	2000.00	2056.96
172	tert-Butyl formate	59	5.242	5.242	(1.088)	292643	200.000	200.02(A)
151	4-Methyl-2-pentanol	45	7.218	7.218	(1.300)	983232	2000.00	1981.17
140	1,3-Butadiene	54	1.411	1.411	(0.293)	214164	100.000	100.62
182	Epichlorohydrin	57	6.629	6.629	(1.194)	28979	400.000	405.67
M 94	1,2-Dichloroethylene (total)	96				322965	200.000	(a)
145	alpha-Methylstyrene	118	9.756	9.756	(0.959)	219549	100.000	99.22
130	Ethyl Acetate	43	4.534	4.534	(0.941)	57395	100.000	100.32(M)
131	Methyl Acrylate	55	4.369	4.369	(0.907)	191883	100.000	93.41
189	n-Butyl acetate	43	7.705	7.705	(0.941)	264922	100.000	100.67
134	Cyclohexanone	55	9.152	9.152	(0.900)	194238	2000.00	2030.58
185	Isoprene	39	2.161	2.161	(0.449)	35974	100.000	99.96
188	Isopropyl acetate	43	5.284	5.284	(0.951)	467903	100.000	97.23
150	Allyl alcohol	57	3.346	3.346	(0.694)	155405	2000.00	1955.71
194	Acetaldehyde	44	1.468	1.468	(0.305)	154867	400.000	373.78(M)
200	Dimethyl Disulfide	94	6.746	6.746	(0.824)	167585	100.000	99.85
202	Isobutylene	41	1.756	1.756	(0.364)	81097	100.000	96.86(M)
133	Ethyl Acrylate	55	5.947	5.947	(1.234)	403390	100.000	103.46
163	Butyl methacrylate	41	9.651	9.651	(0.949)	177629	100.000	96.77
159	Propylene oxide	43	2.206	2.206	(0.458)	23265	200.000	205.46(A)
178	Ethylene oxide	44	1.610	1.610	(0.334)	427784	200.000	232.48
203	2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	219028	100.000	101.22
204	Tetrahydrothiophene	60	7.672	7.672	(0.937)	181629	100.000	96.84(A)

205 sec-Butyl Ether	57	7.218	7.218 (0.882)	339960	100.000	92.19(AM)
187 n-Amyl acetate	43	8.931	8.931 (1.091)	277181	100.000	94.93

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
206 2-Chloropropene	41	1.932	1.932	(0.401)	261855	100.000	102.91(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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LabSampID : VSTD100

Dichlorodifluoromethane (75-71-8)

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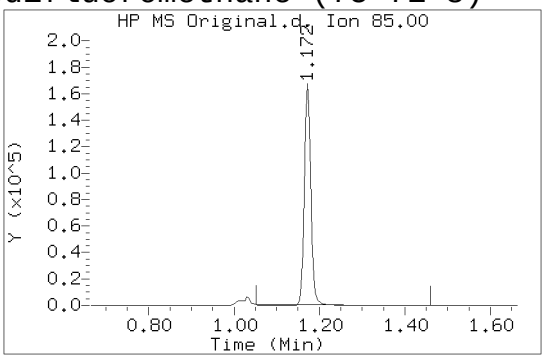

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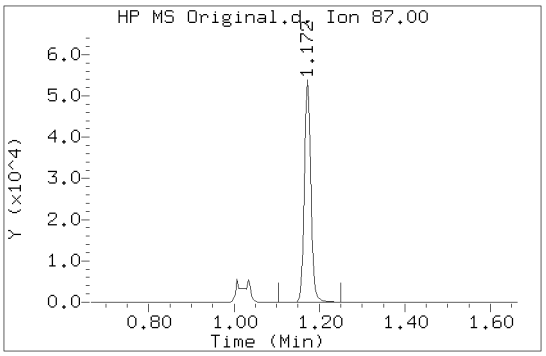

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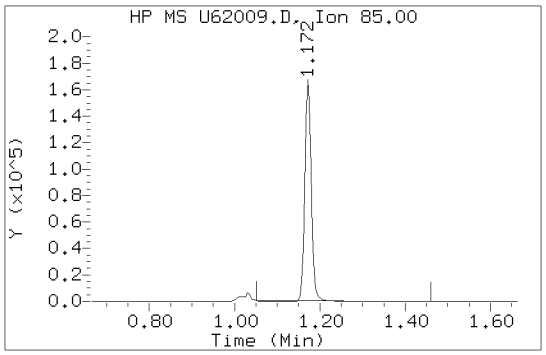

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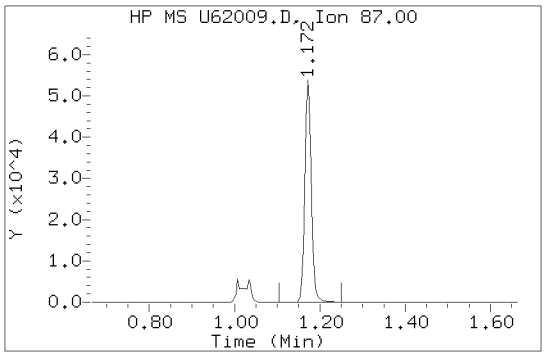

Vinyl Chloride (75-01-4)

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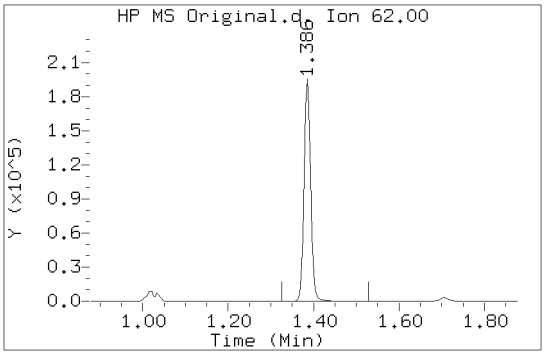

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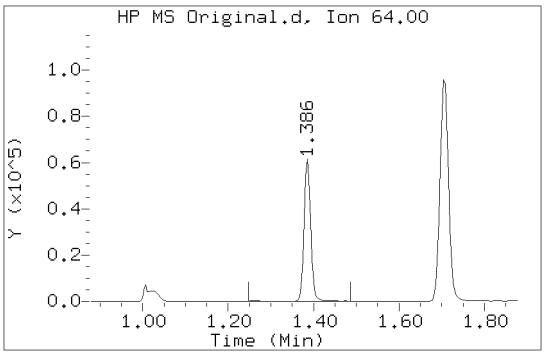

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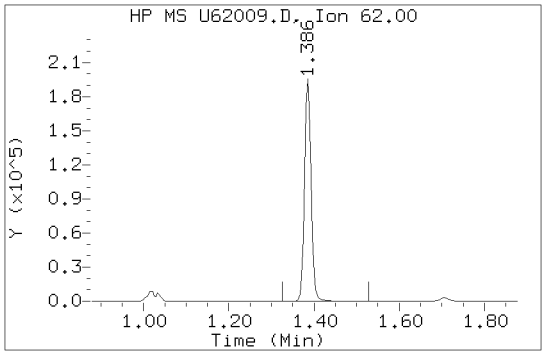

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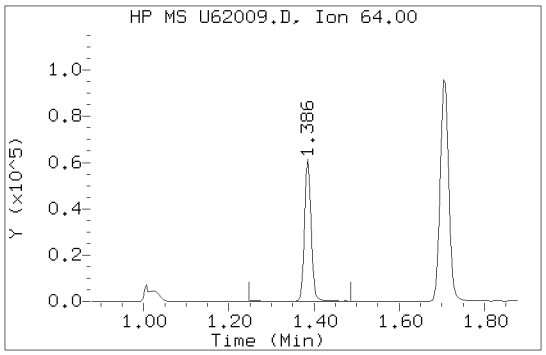

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LabSampID : VSTD100

1,1-Dichloropropene (563-58-6)

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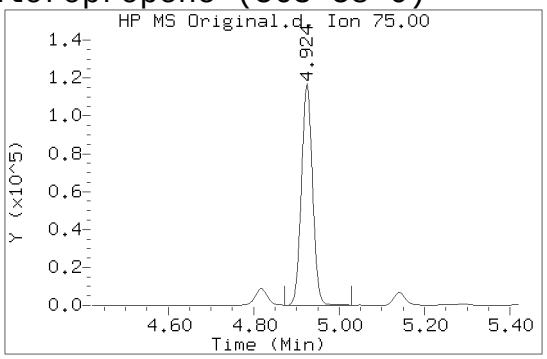

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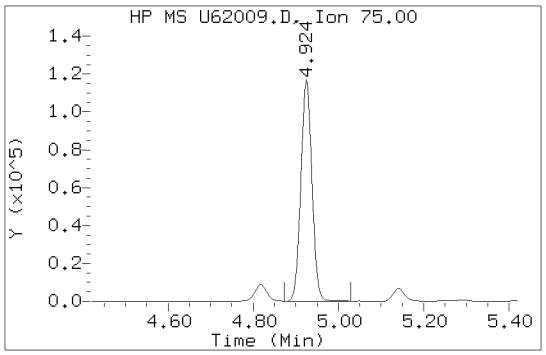

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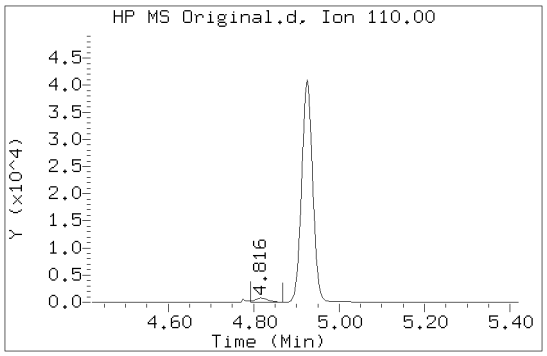

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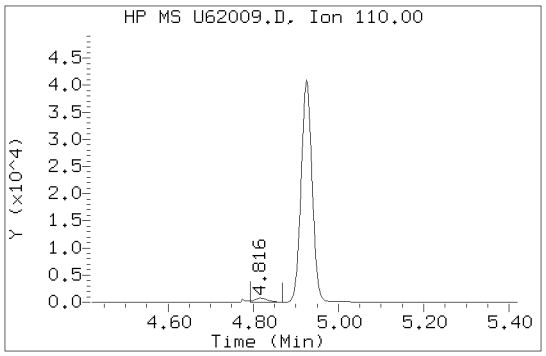

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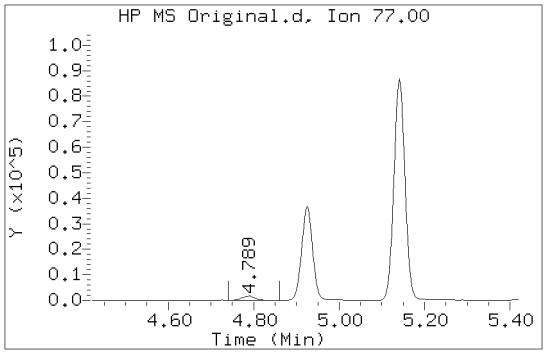

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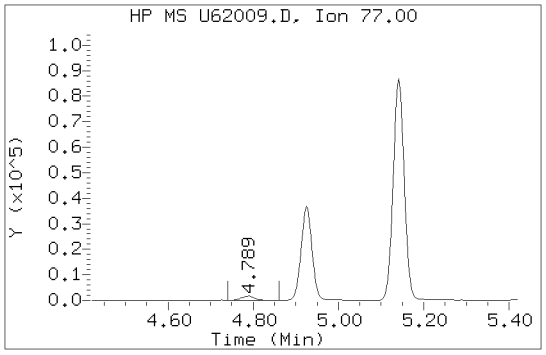
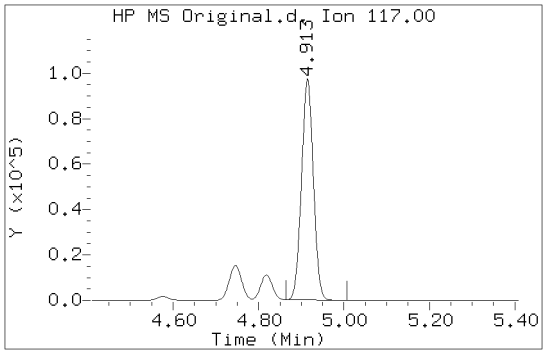


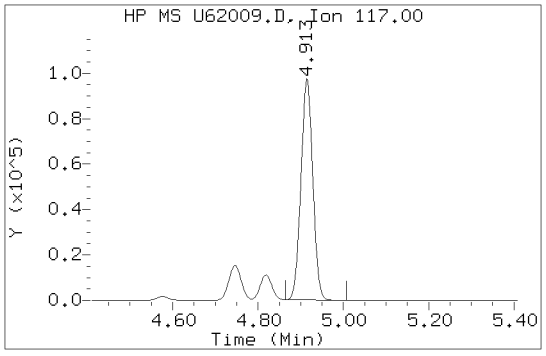
Carbon Tetrachloride (56-23-5)

Reason Code:

BEFORE
MASS
117
AREA
192077
HEIGHT
97460
29-Jun-2024
12:15
s
zaid



AFTER
MASS
117
AREA
192077
HEIGHT
97460
29-Jun-2024
12:18
s
zaid



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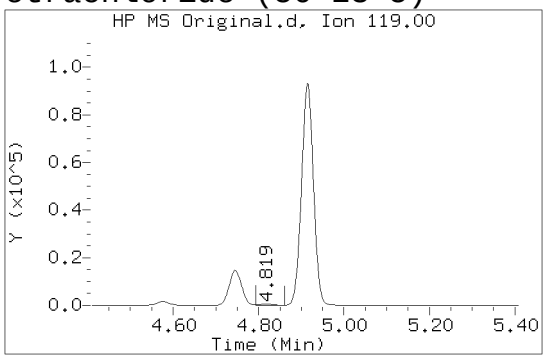
Inj Date : 20-JUN-2024 13:53
InstruID : VOA9.i
LabSampID : VSTD100

Carbon Tetrachloride (56-23-5)

Reason Code:

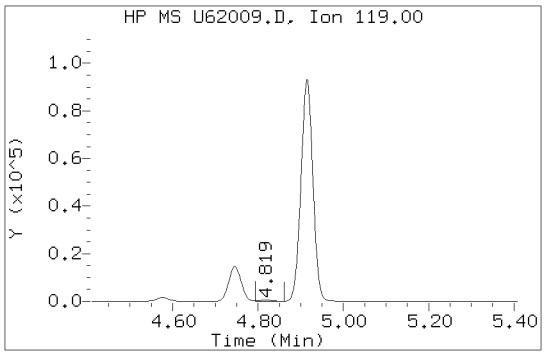
BEFORE

MASS
119
AREA
1221
HEIGHT
595
29-Jun-2024
12:15
s
zaid



AFTER

MASS
119
AREA
1221
HEIGHT
595
29-Jun-2024
12:18
s
zaid

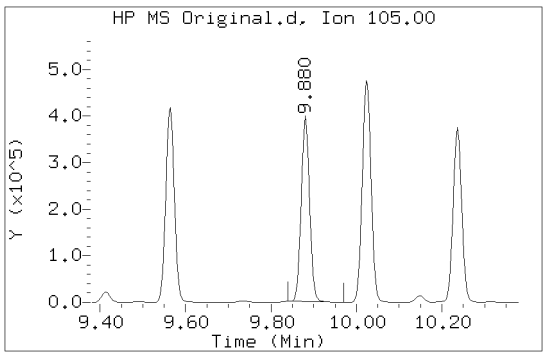


1,2,4-Trimethylbenzene (95-63-6)

Reason Code:

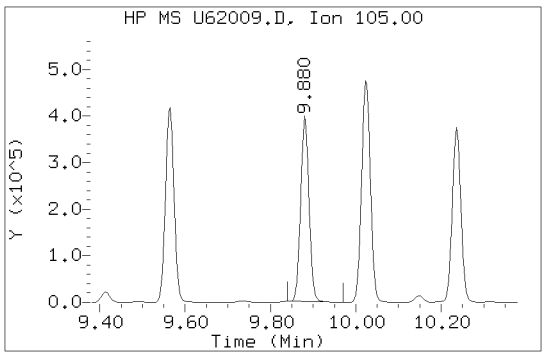
BEFORE

MASS
105
AREA
557088
HEIGHT
398984
29-Jun-2024
12:15
s
zaid



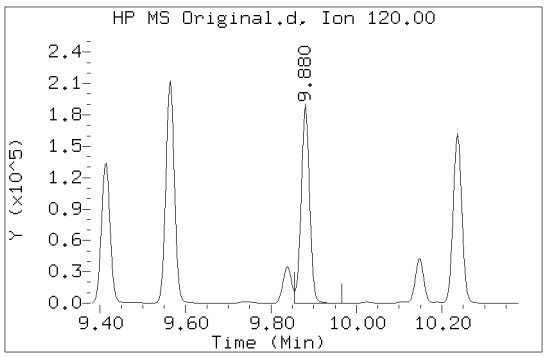
AFTER

MASS
105
AREA
557088
HEIGHT
398984
29-Jun-2024
12:18
s
zaid



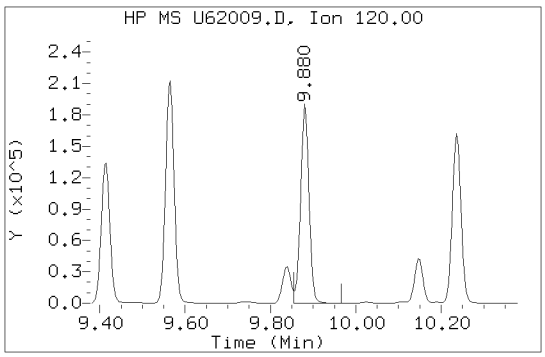
BEFORE

MASS
120
AREA
268404
HEIGHT
190428
29-Jun-2024
12:15
s
zaid



AFTER

MASS
120
AREA
268404
HEIGHT
190428
29-Jun-2024
12:18
s
zaid

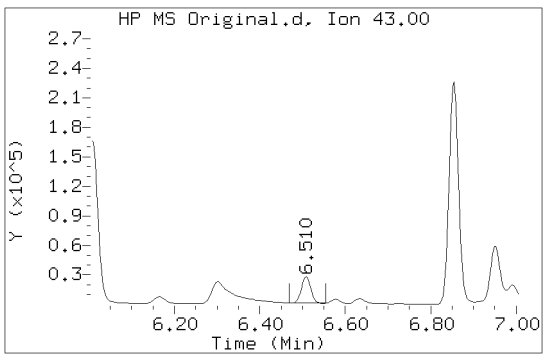


2-Nitropropane (79-46-9)

Reason Code:

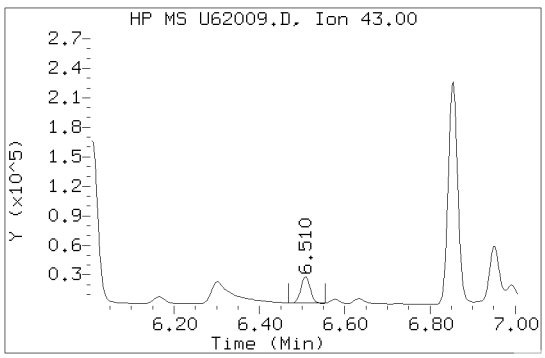
BEFORE

MASS
43
AREA
41085
HEIGHT
26681
29-Jun-2024
12:15
s
zaid



AFTER

MASS
43
AREA
41085
HEIGHT
26681
29-Jun-2024
12:18
s
zaid



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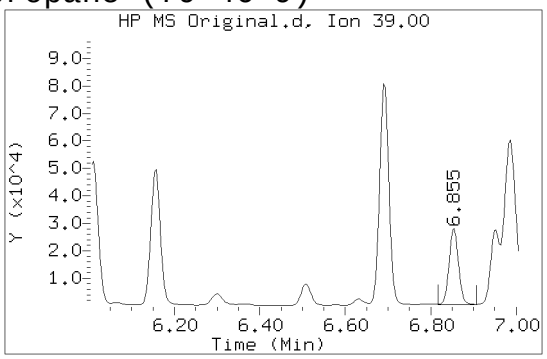
Inj Date : 20-JUN-2024 13:53
InstruID : VOA9.i
LabSampID : VSTD100

2-Nitropropane (79-46-9)

Reason Code:

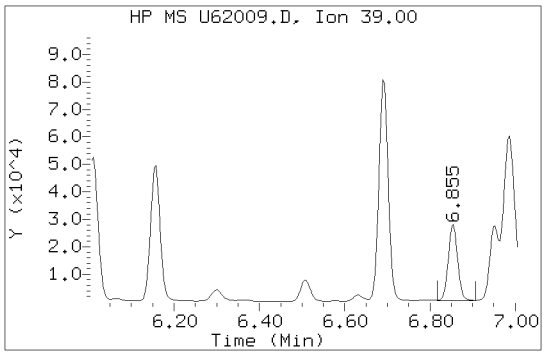
BEFORE

MASS
39
AREA
41726
HEIGHT
27752
29-Jun-2024
12:15
s
zaid



AFTER

MASS
39
AREA
41726
HEIGHT
27752
29-Jun-2024
12:18
s
zaid

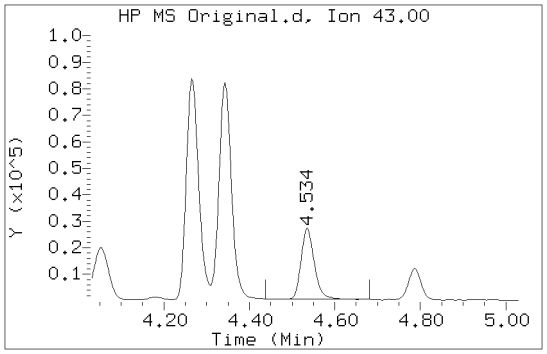


Ethyl Acetate (141-78-6)

Reason Code:

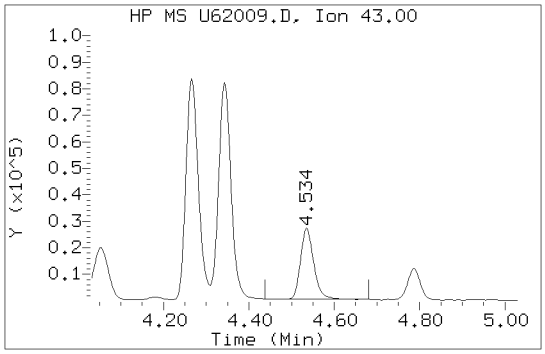
BEFORE

MASS
43
AREA
57395
HEIGHT
26781
29-Jun-2024
12:15
s
zaid



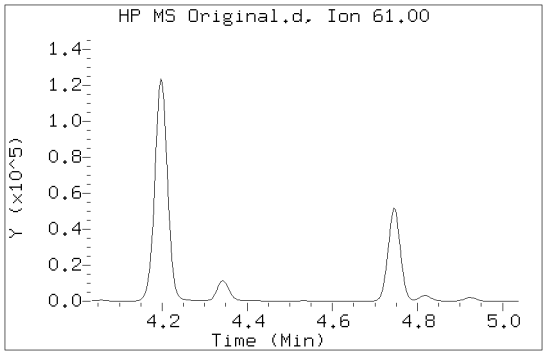
AFTER

MASS
43
AREA
57395
HEIGHT
26781
29-Jun-2024
12:18
s
zaid



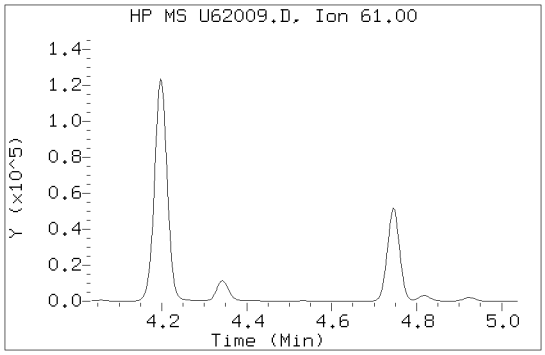
BEFORE

MASS
61
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
61
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



BEFORE

MASS
70
AREA
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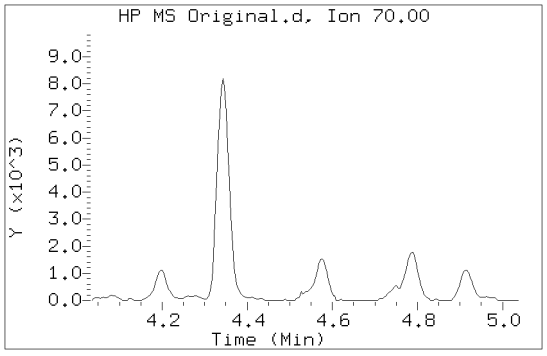
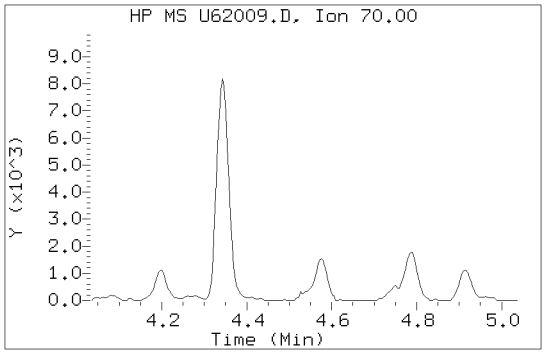
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
70
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



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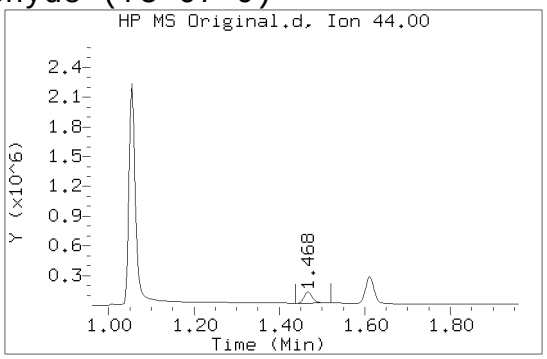
Inj Date : 20-JUN-2024 13:53
InstruID : VOA9.i
LabSampID : VSTD100

Acetaldehyde (75-07-0)

Reason Code:

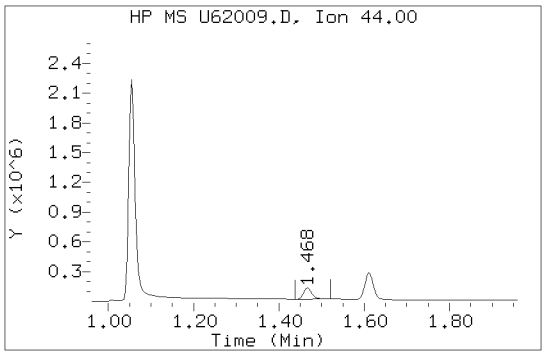
BEFORE

MASS
44
AREA
154867
HEIGHT
112500
29-Jun-2024
12:15
s
zaid



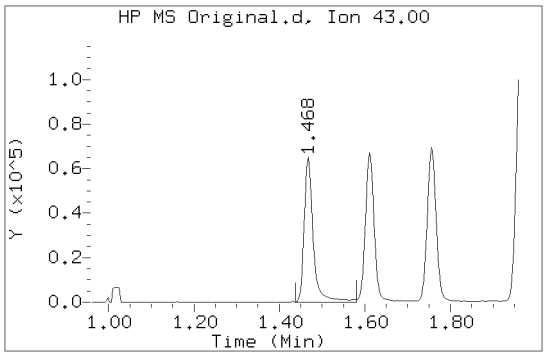
AFTER

MASS
44
AREA
154867
HEIGHT
112500
29-Jun-2024
12:18
s
zaid



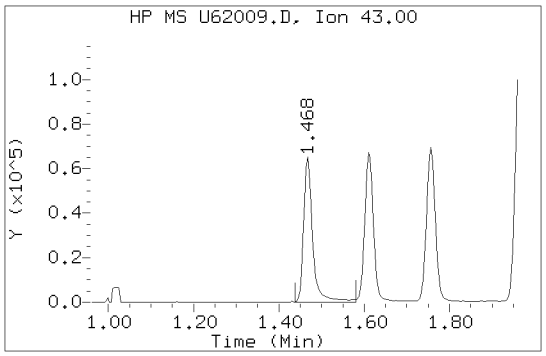
BEFORE

MASS
43
AREA
97376
HEIGHT
65128
29-Jun-2024
12:15
s
zaid



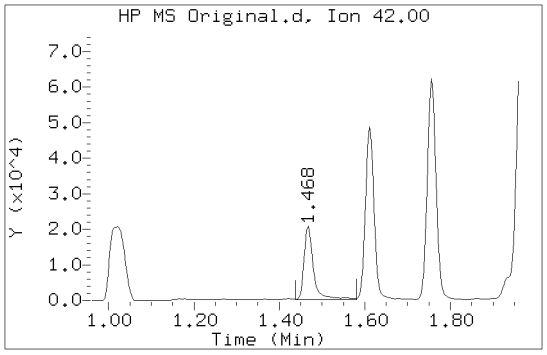
AFTER

MASS
43
AREA
97376
HEIGHT
65128
29-Jun-2024
12:18
s
zaid



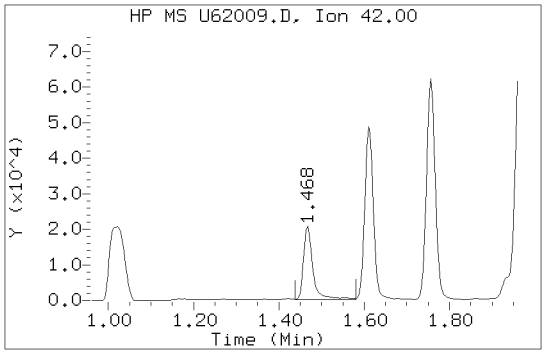
BEFORE

MASS
42
AREA
31537
HEIGHT
20638
29-Jun-2024
12:15
s
zaid



AFTER

MASS
42
AREA
31537
HEIGHT
20638
29-Jun-2024
12:18
s
zaid

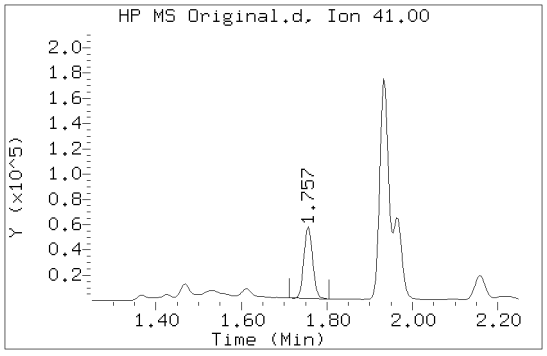


Isobutylene (115-11-7)

Reason Code:

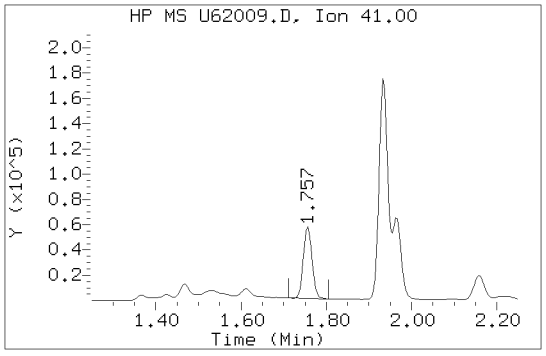
BEFORE

MASS
41
AREA
81097
HEIGHT
56878
29-Jun-2024
12:15
s
zaid



AFTER

MASS
41
AREA
81097
HEIGHT
56878
29-Jun-2024
12:18
s
zaid



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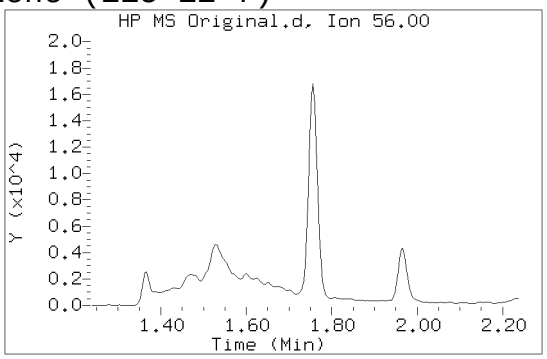
Inj Date : 20-JUN-2024 13:53
InstruID : VOA9.i
LabSampID : VSTD100

Isobutylene (115-11-7)

Reason Code:

BEFORE
MASS
56
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER
MASS
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AREA
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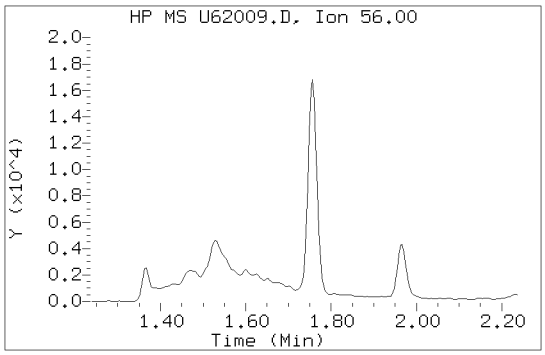
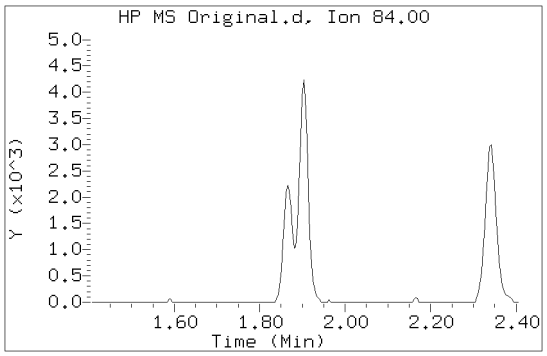
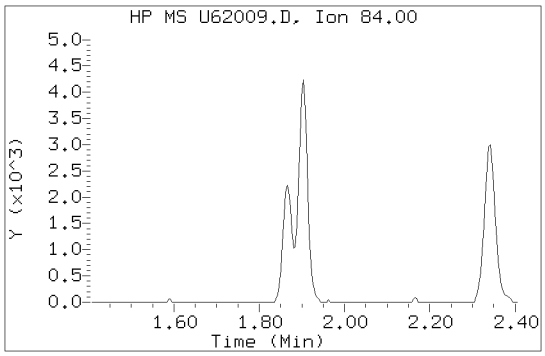
HEIGHT
0
29-Jun-2024
12:18
s
zaid



BEFORE
MASS
84
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



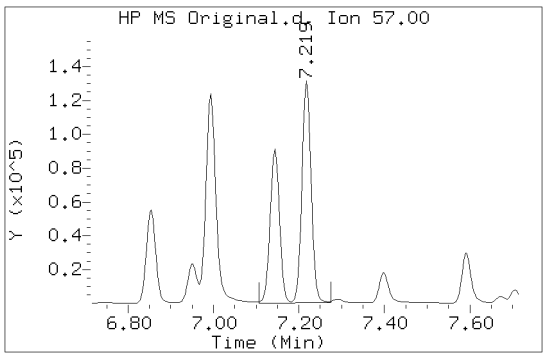
AFTER
MASS
84
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



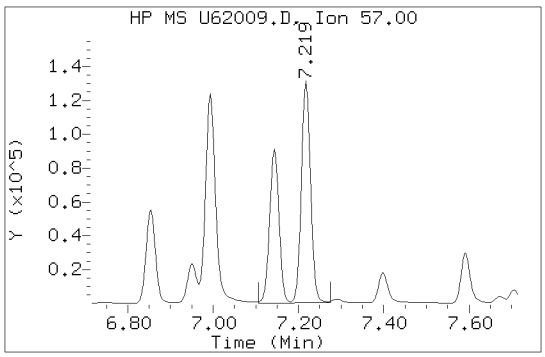
sec-Butyl Ether (6863-58-7)

Reason Code:

BEFORE
MASS
57
AREA
339960
HEIGHT
131250
29-Jun-2024
12:15
s
zaid



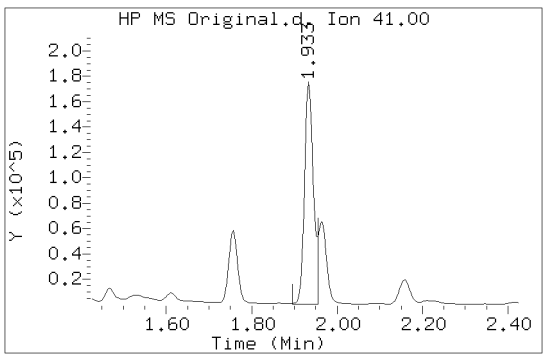
AFTER
MASS
57
AREA
339960
HEIGHT
131250
29-Jun-2024
12:18
s
zaid



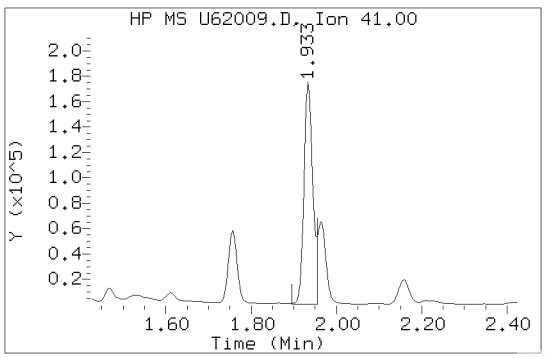
2-Chloropropene (557-98-2)

Reason Code:

BEFORE
MASS
41
AREA
261855
HEIGHT
174930
29-Jun-2024
12:15
s
zaid



AFTER
MASS
41
AREA
261855
HEIGHT
174930
29-Jun-2024
12:18
s
zaid



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62010.D Page 1
Report Date: 29-Jun-2024 12:15

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62010.D
Lab Smp Id: VSTD150 Client Smp ID: VSTD150
Inj Date : 20-JUN-2024 14:15
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\U240620.b\8260C.m
Meth Date : 29-Jun-2024 12:15 VOA9.i Quant Type: ISTD
Cal Date : 20-JUN-2024 13:53 Cal File: U62009.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: NAHSTW7014

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)	252939	50.0000	
2 Dichlorodifluoromethane	85	1.168	1.168	(0.243)	283969	150.000	157.20
3 Chloromethane	50	1.299	1.299	(0.270)	541083	150.000	151.57
4 Propionitrile	54	4.335	4.335	(0.900)	353474	1500.00	1473.16
5 Vinyl Chloride	62	1.378	1.378	(0.286)	335402	150.000	149.31
6 Bromomethane	94	1.610	1.610	(0.334)	130142	150.000	151.18
7 Chloroethane	64	1.696	1.696	(0.352)	208991	150.000	151.18
8 Trichlorofluoromethane	101	1.895	1.895	(0.394)	380170	150.000	156.92
9 Acrolein	56	2.266	2.266	(0.471)	24292	300.000	297.17
10 Acetone	43	2.409	2.409	(0.500)	182887	300.000	296.98
11 1,1-Dichloroethene	96	2.334	2.334	(0.485)	206596	150.000	140.01
12 Isobutyl Alcohol	43	5.284	5.284	(1.097)	730148	3000.00	2924.09
13 Acetonitrile	39	2.671	2.671	(0.555)	280872	1500.00	1473.43
14 Allyl Chloride	41	2.671	2.671	(0.555)	651842	150.000	146.67
15 Iodomethane	142	2.469	2.469	(0.513)	236209	300.000	299.54
16 Acrylonitrile	53	3.065	3.065	(0.636)	179501	300.000	291.87
17 Methylene Chloride	84	2.795	2.795	(0.580)	251424	150.000	153.74
18 Methyl tert-butyl ether	73	3.080	3.080	(0.640)	637081	150.000	145.64
19 Carbon Disulfide	76	2.521	2.521	(0.524)	1214971	300.000	298.78
20 trans-1,2-Dichloroethene	96	3.057	3.057	(0.635)	230456	150.000	150.34

21 Vinyl Acetate	43	4.339	4.339 (0.901)	263548	300.000	299.37
22 1,1-Dichloroethane	63	3.511	3.511 (0.729)	435781	150.000	150.45

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62010.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	3.608	3.608	(0.749)	377420	150.000	150.94
	24 2-Butanone	43	4.260	4.260	(0.885)	264601	300.000	301.50
	25 Methacrylonitrile	41	4.493	4.493	(0.933)	168016	150.000	151.66(a)
	26 2,2-Dichloropropane	77	4.182	4.182	(0.868)	352166	150.000	150.02
	27 cis-1,2-Dichloroethene	96	4.197	4.197	(0.872)	274517	150.000	150.84
	28 Chloroform	83	4.572	4.572	(0.949)	445066	150.000	150.57
	29 Bromochloromethane	128	4.470	4.470	(0.928)	133328	150.000	131.66
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	242663	150.000	144.43
	31 1,1,1-Trichloroethane	97	4.744	4.744	(0.985)	372467	150.000	158.60
	32 1,1-Dichloropropene	75	4.920	4.920	(0.887)	342907	150.000	154.82(M)
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	348168	150.000	150.10
	34 Carbon Tetrachloride	117	4.913	4.913	(0.885)	311762	150.000	167.94(M)
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	298227	150.000	139.16
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	363077	50.0000	
	37 Benzene	78	5.138	5.138	(0.926)	1025192	150.000	137.19
	38 Trichloroethene	130	5.786	5.786	(1.043)	264607	150.000	145.91
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	331544	150.000	156.98
	40 Methyl Methacrylate	41	5.820	5.820	(1.209)	104765	150.000	158.27
	41 2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	35270	300.000	299.30
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	276191	150.000	139.54
	43 2-Nitropropane	43	6.506	6.506	(1.351)	67540	150.000	168.88(M)
	44 Dibromomethane	93	6.116	6.116	(1.102)	161146	150.000	139.48
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	557840	300.000	302.19
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	414270	150.000	167.89
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	334950	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	933941	150.000	143.65
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	352864	150.000	153.03
	50 Toluene	91	6.982	6.982	(0.853)	1093938	150.000	143.44
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	345365	150.000	149.80
	52 2-Hexanone	43	7.218	7.218	(0.882)	364859	300.000	295.93
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	199777	150.000	135.47
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	434843	150.000	140.30
	55 Dibromochloromethane	129	7.691	7.691	(0.940)	264746	150.000	172.07
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	213245	150.000	149.40
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	238860	150.000	146.73
	58 1-Chlorohexane	55	8.197	8.197	(1.477)	205637	150.000	148.53
	59 Chlorobenzene	112	8.208	8.208	(1.003)	691759	150.000	150.76
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	249048	150.000	152.00
	61 Ethylbenzene	106	8.305	8.305	(1.015)	362809	150.000	153.72
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	906456	300.000	321.68
	63 o-Xylene	106	8.748	8.748	(1.069)	445348	150.000	160.37
	64 Styrene	104	8.763	8.763	(1.071)	772219	150.000	166.33
	66 Bromoform	173	8.920	8.920	(1.090)	177855	150.000	152.53
	67 Isopropylbenzene	105	9.063	9.063	(1.107)	1133559	150.000	164.53
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	337416	150.000	148.50
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	350901	150.000	137.36
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	185008	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	349375	150.000	148.28
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	68780	150.000	146.95
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	1299196	150.000	162.39
	74 Bromobenzene	156	9.317	9.317	(0.916)	307931	150.000	141.66
	75 1,3,5-Trimethylbenzene	105	9.565	9.565	(0.940)	932820	150.000	149.51

76	2-Chlorotoluene	91	9.482	9.482 (0.932)	781832	150.000	144.40
77	4-Chlorotoluene	91	9.576	9.576 (0.941)	918518	150.000	149.48

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62010.D Page 3
Report Date: 29-Jun-2024 12:15

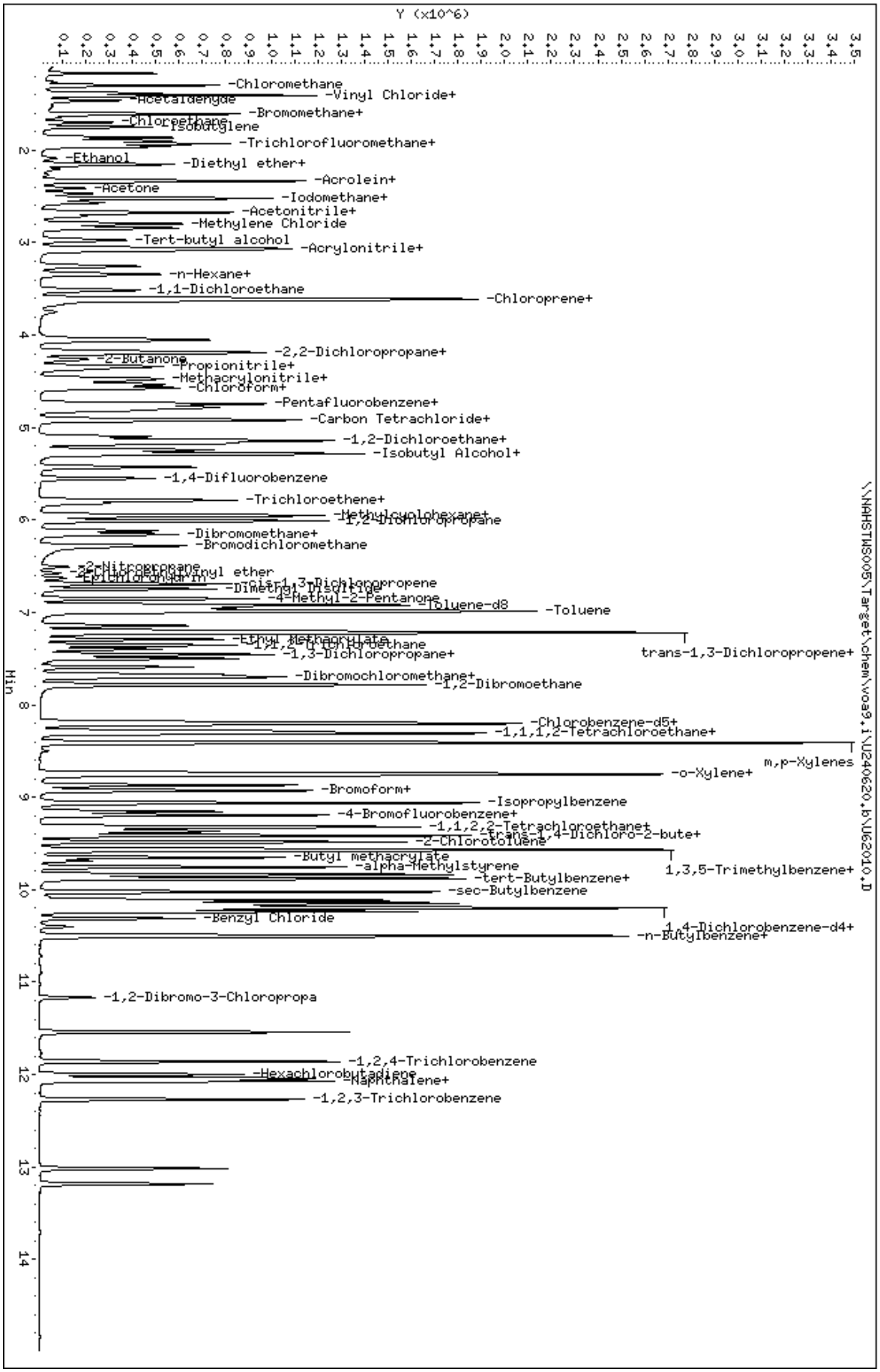
						AMOUNTS	
		QUANT SIG				CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
	==========	====	====	========	========	========	=======	=======
78	tert-Butylbenzene	119	9.839	9.839	(0.967)	791680	150.000	162.36
79	1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	918786	150.000	156.06(M)
81	sec-Butylbenzene	105	10.022	10.022	(0.985)	1076201	150.000	165.73
82	p-Isopropyltoluene	119	10.146	10.146	(0.997)	955586	150.000	149.33
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	551926	150.000	137.99
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	567963	150.000	149.54
86	Benzyl Chloride	91	10.311	10.311	(1.260)	428103	150.000	149.48
87	n-Butylbenzene	91	10.495	10.495	(1.032)	845811	150.000	149.33
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	538275	150.000	135.17
89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	48564	150.000	151.47
90	1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	378110	150.000	156.94
91	Hexachlorobutadiene	225	12.001	12.001	(1.180)	163770	150.000	153.30
92	Naphthalene	128	12.069	12.069	(1.186)	862491	150.000	149.39
93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	339635	150.000	153.96
146	Methyl acetate	43	2.712	2.712	(0.563)	195904	150.000	154.89
138	Freon TF	101	2.334	2.334	(0.485)	202073	150.000	149.86
141	Cyclohexane	56	4.785	4.785	(0.994)	361451	150.000	150.10
142	Tetrahydrofuran	42	4.542	4.542	(0.943)	92392	300.000	308.42
147	Methylcyclohexane	55	5.944	5.944	(1.071)	635742	150.000	164.89(A)
135	1,4-Dioxane	88	6.165	6.165	(1.280)	57382	3000.00	2896.08
132	n-Butanol	56	5.820	5.820	(1.209)	152062	3000.00	2990.95
136	n-Hexane	57	3.342	3.342	(0.694)	255546	150.000	157.56
139	Diethyl ether	59	2.146	2.146	(0.446)	175770	150.000	145.18
148	Tert-butyl alcohol	59	2.971	2.971	(0.617)	431407	3000.00	3004.82
149	Isopropyl alcohol	45	2.566	2.566	(0.533)	317765	3000.00	2881.85
156	Diisopropyl ether	45	3.619	3.619	(0.752)	824738	150.000	135.18
162	Butyl acrylate	55	8.733	8.733	(1.067)	502445	150.000	162.96
164	Dicyclopentadiene	66	10.202	10.202	(1.003)	1174799	150.000	146.66
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	831618	150.000	157.16
167	Ethanol	45	2.086	2.086	(0.433)	62069	3000.00	2943.72
172	tert-Butyl formate	59	5.243	5.243	(1.089)	463523	300.000	252.25(A)
151	4-Methyl-2-pentanol	45	7.218	7.218	(1.301)	1567700	3000.00	3130.89
140	1,3-Butadiene	54	1.408	1.408	(0.292)	332150	150.000	152.92
182	Epichlorohydrin	57	6.630	6.630	(1.195)	52054	600.000	598.48
M 94	1,2-Dichloroethylene (total)	96				504973	300.000	(a)
145	alpha-Methylstyrene	118	9.756	9.756	(0.959)	361012	150.000	151.71
130	Ethyl Acetate	43	4.534	4.534	(0.942)	84064	150.000	144.91(M)
131	Methyl Acrylate	55	4.369	4.369	(0.907)	295559	150.000	140.99
189	n-Butyl acetate	43	7.706	7.706	(0.941)	413098	150.000	154.68
134	Cyclohexanone	55	9.152	9.152	(0.900)	292482	3000.00	2948.40
185	Isoprene	39	2.157	2.157	(0.448)	54150	150.000	147.44
188	Isopropyl acetate	43	5.284	5.284	(0.952)	711670	150.000	146.58
150	Allyl alcohol	57	3.342	3.342	(0.694)	255546	3000.00	3151.30
194	Acetaldehyde	44	1.460	1.460	(0.303)	235556	600.000	557.10(M)
200	Dimethyl Disulfide	94	6.746	6.746	(0.824)	313794	150.000	98.42
202	Isobutylene	41	1.749	1.749	(0.363)	128344	150.000	149.50(M)
133	Ethyl Acrylate	55	5.944	5.944	(1.234)	635742	150.000	159.78
163	Butyl methacrylate	41	9.647	9.647	(0.948)	269158	150.000	144.66
159	Propylene oxide	43	2.199	2.199	(0.457)	33334	300.000	288.46(A)
178	Ethylene oxide	44	1.603	1.603	(0.333)	617399	300.000	328.79
203	2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	363161	150.000	149.57
204	Tetrahydrothiophene	60	7.672	7.672	(0.937)	279468	150.000	146.82(A)

205 sec-Butyl Ether	57	7.218	7.218 (0.882)	541394	150.000	144.66(AM)
187 n-Amyl acetate	43	8.931	8.931 (1.091)	451445	150.000	152.35

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
206 2-Chloropropene	41	1.929	1.929	(0.401)	403173	150.000	155.26(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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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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Inj Date : 20-JUN-2024 14:15
InstruID : VOA9.i
LabSampID : VSTD150

1,1-Dichloropropene (563-58-6)

Reason Code:

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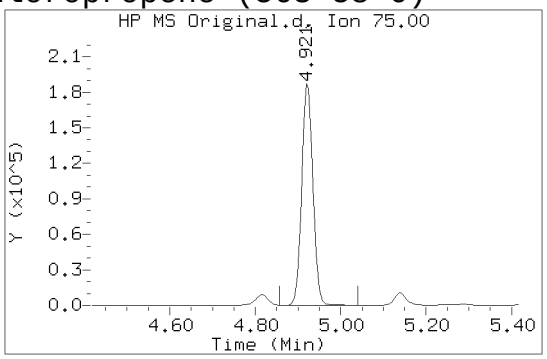

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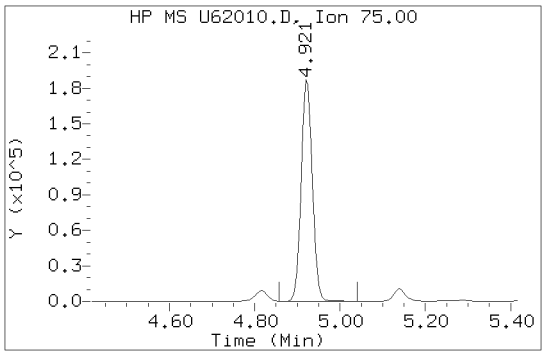

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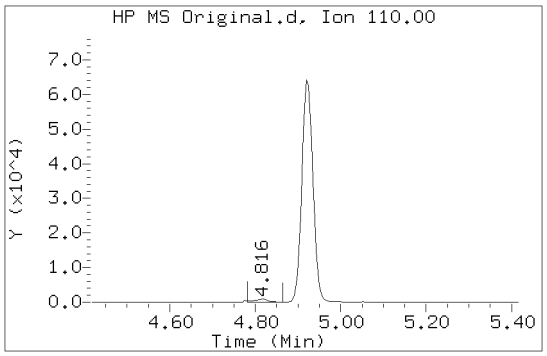

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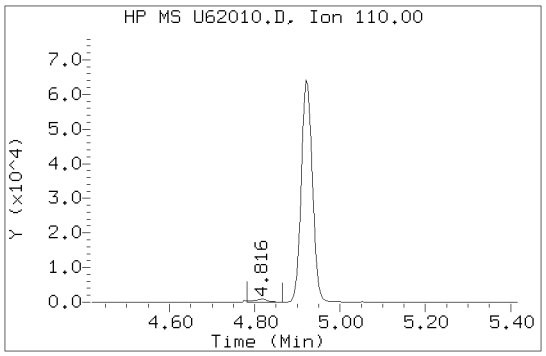

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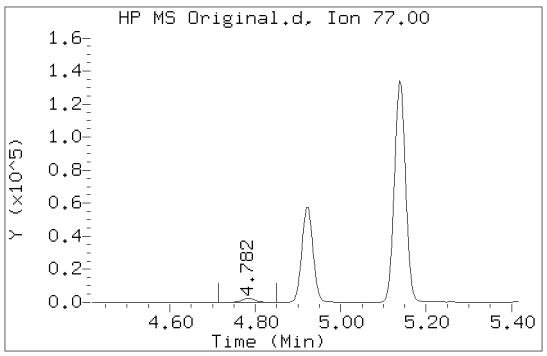

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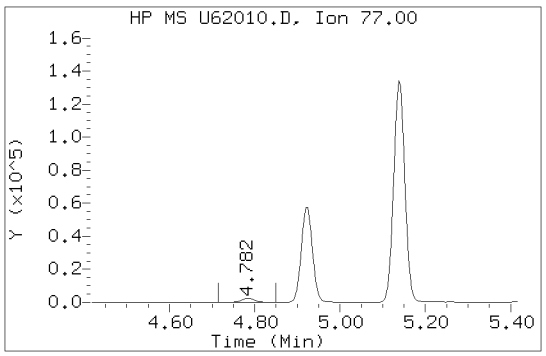

Carbon Tetrachloride (56-23-5)

Reason Code:

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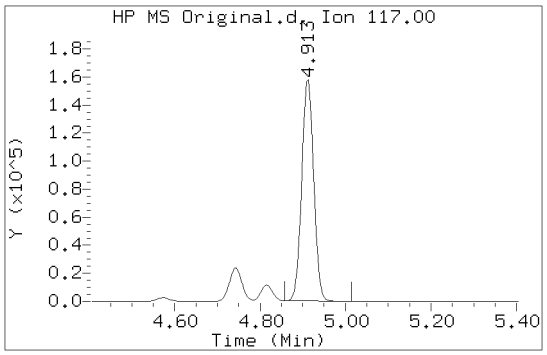

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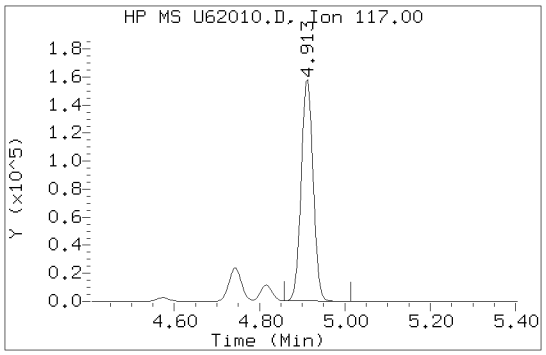

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Inj Date : 20-JUN-2024 14:15
InstruID : VOA9.i
LabSampID : VSTD150

Carbon Tetrachloride (56-23-5)

Reason Code:

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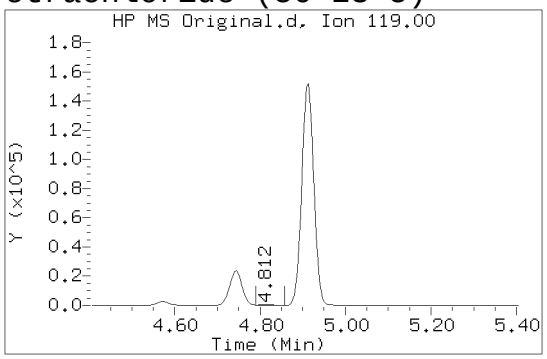

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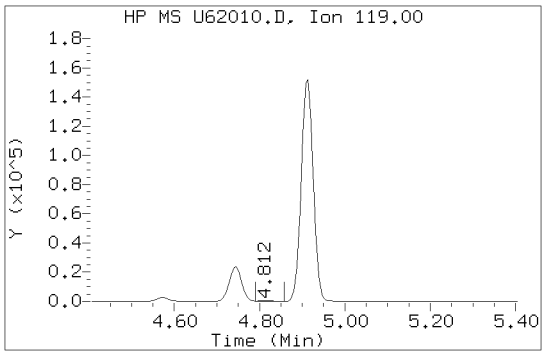

1,2,4-Trimethylbenzene (95-63-6)

Reason Code:

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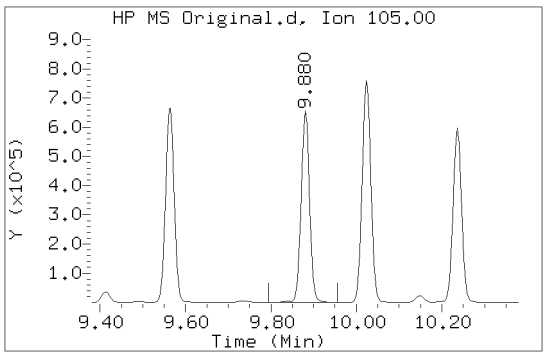

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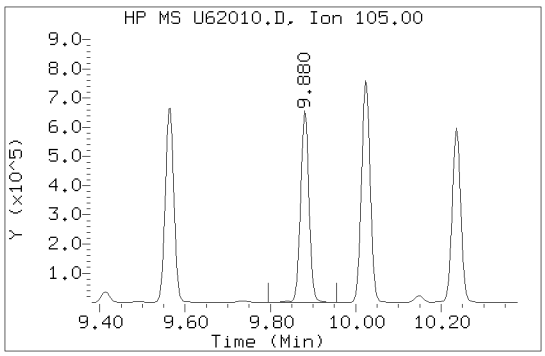

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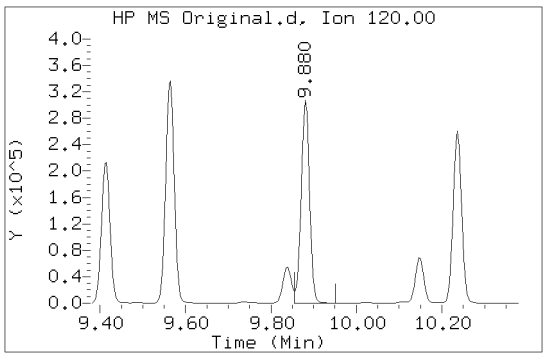

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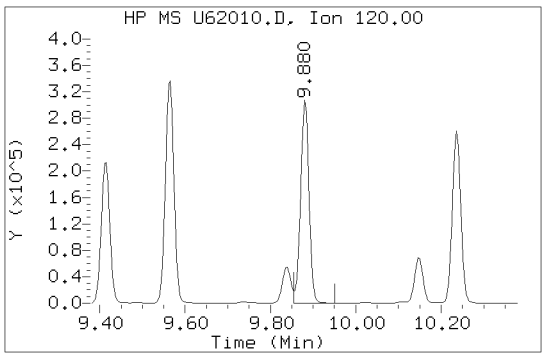

2-Nitropropane (79-46-9)

Reason Code:

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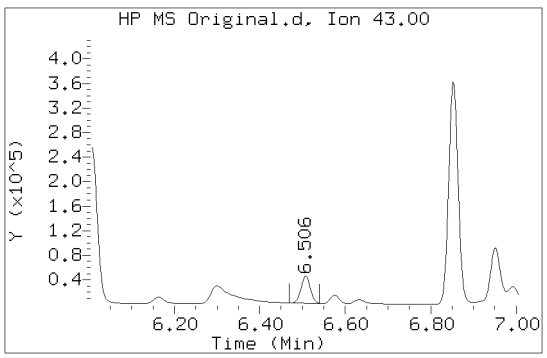

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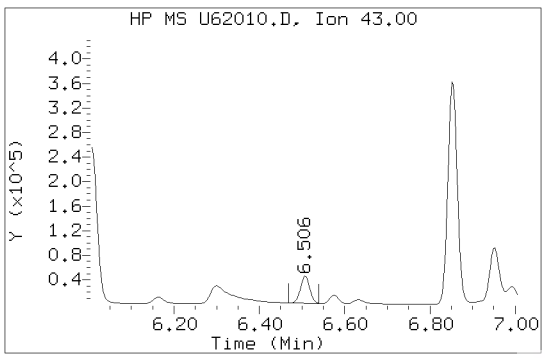

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Inj Date : 20-JUN-2024 14:15
InstruID : VOA9.i
LabSampID : VSTD150

2-Nitropropane (79-46-9)

Reason Code:

BEFORE

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29-Jun-2024
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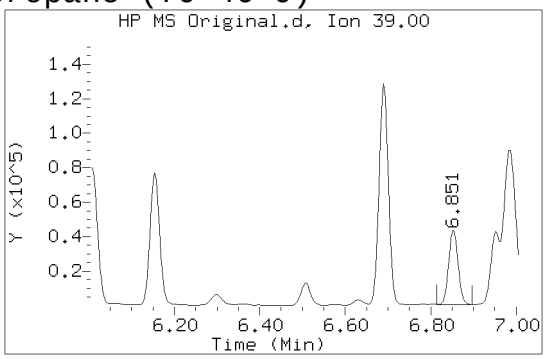

AFTER

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29-Jun-2024
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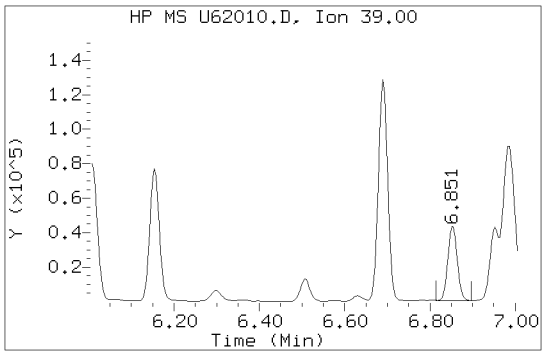

Ethyl Acetate (141-78-6)

Reason Code:

BEFORE

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29-Jun-2024
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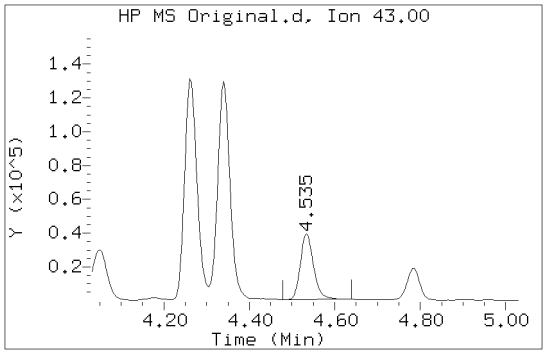
zaid



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29-Jun-2024
12:15
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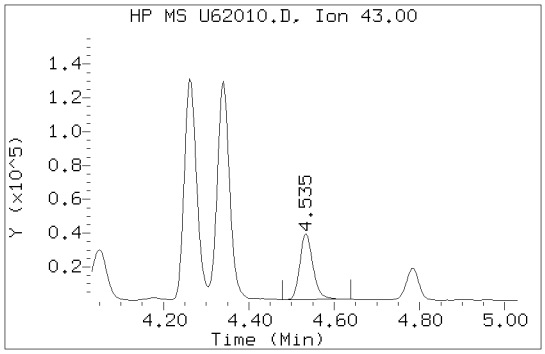

BEFORE

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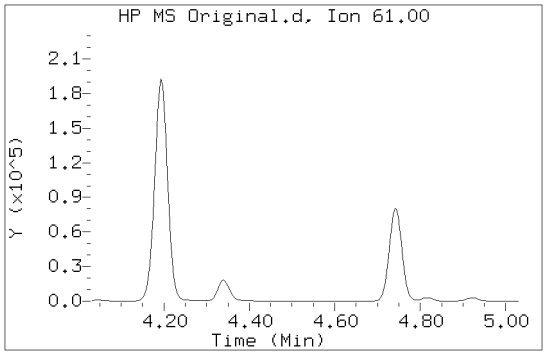

AFTER

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29-Jun-2024
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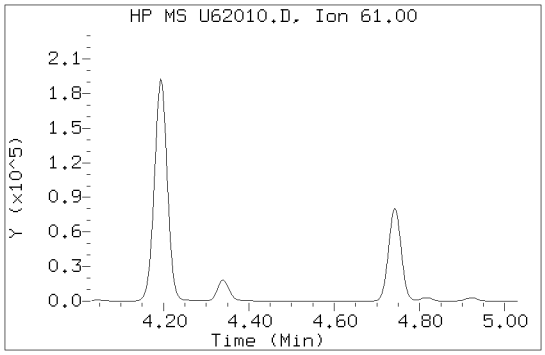

BEFORE

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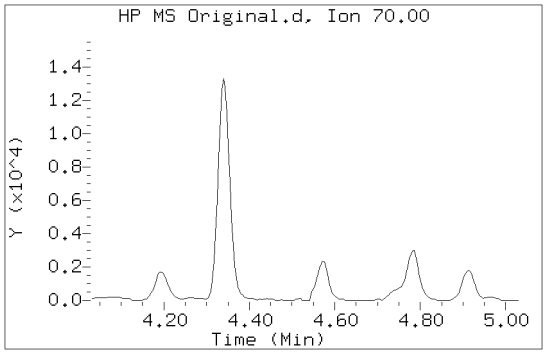

AFTER

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29-Jun-2024
12:15
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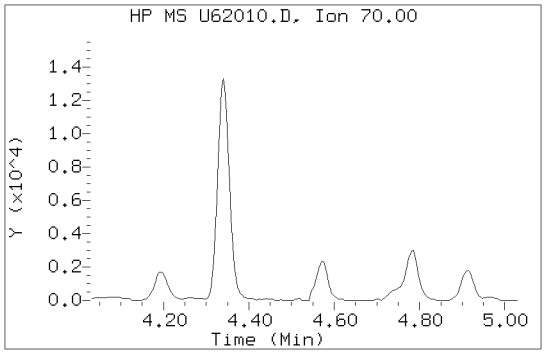

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Inj Date : 20-JUN-2024 14:15
InstruID : VOA9.i
LabSampID : VSTD150

Acetaldehyde (75-07-0)

Reason Code:

BEFORE

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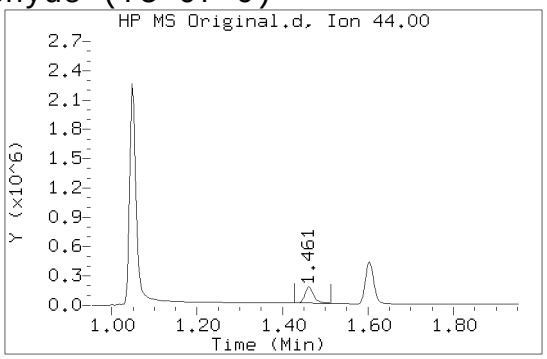
163290
29-Jun-2024
12:15
s
zaid



AFTER

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29-Jun-2024
12:15
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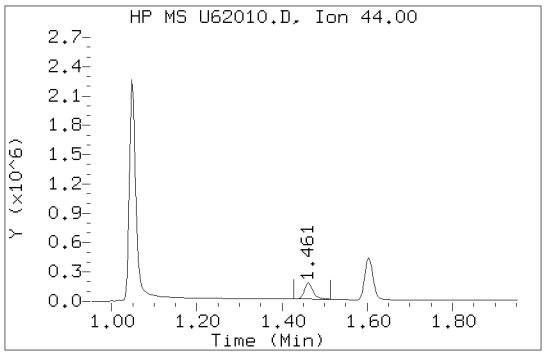

BEFORE

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29-Jun-2024
12:15
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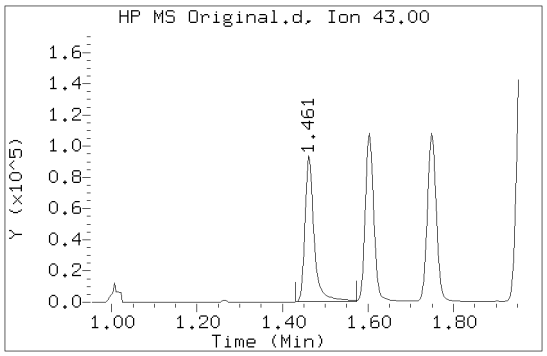
zaid



AFTER

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29-Jun-2024
12:15
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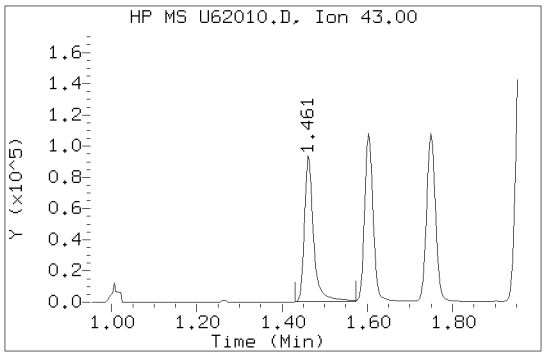

BEFORE

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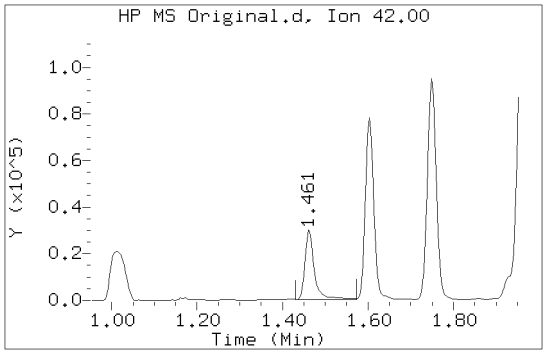

AFTER

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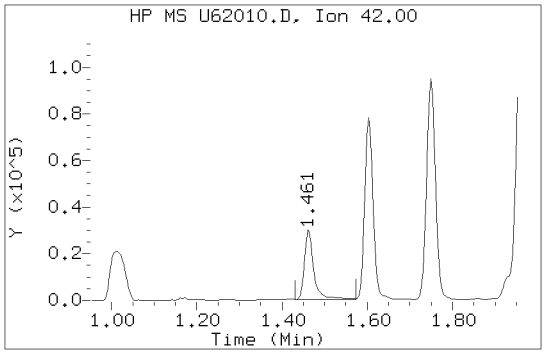

Isobutylene (115-11-7)

Reason Code:

BEFORE

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AREA
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HEIGHT
88820
29-Jun-2024
12:15
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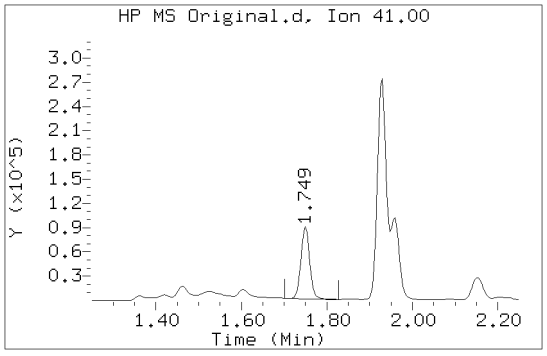
zaid



AFTER

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12:15
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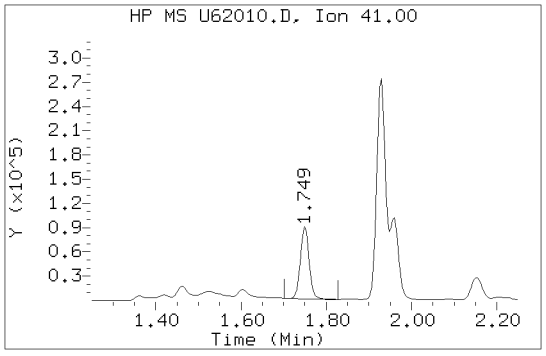

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Inj Date : 20-JUN-2024 14:15
InstruID : VOA9.i
LabSampID : VSTD150

Isobutylene (115-11-7)

Reason Code:

BEFORE

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29-Jun-2024
12:15
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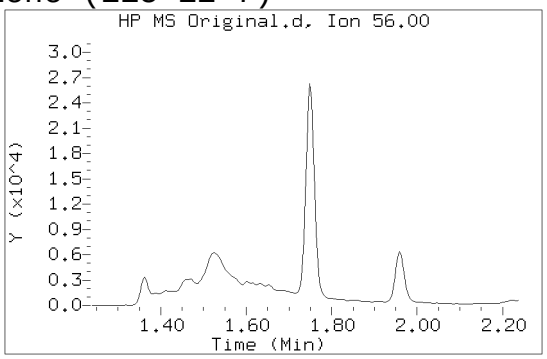

AFTER

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12:15
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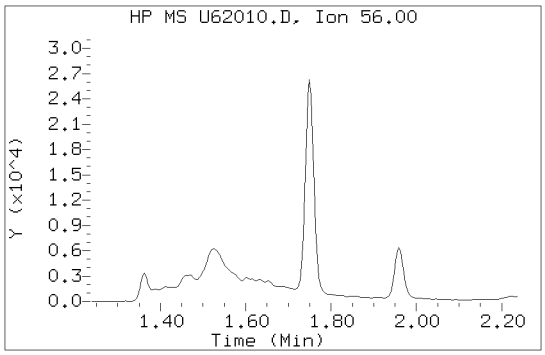

BEFORE

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12:15
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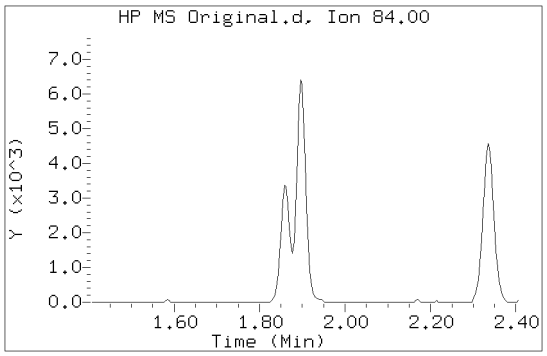

AFTER

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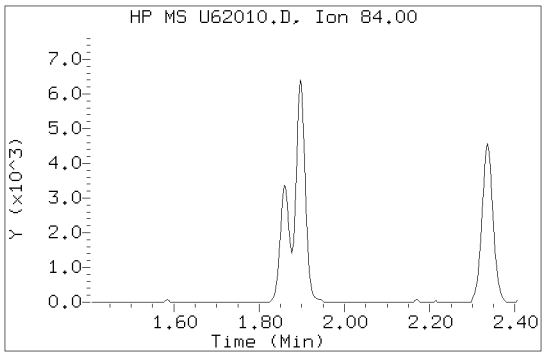

sec-Butyl Ether (6863-58-7)

Reason Code:

BEFORE

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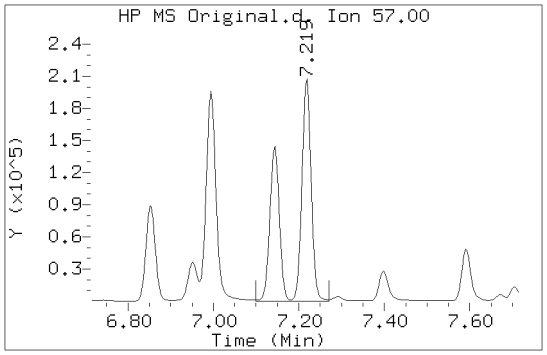

AFTER

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12:15
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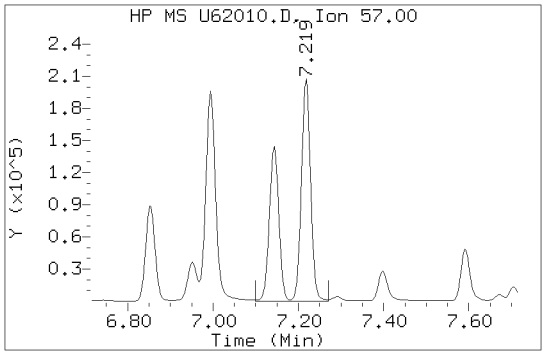

2-Chloropropene (557-98-2)

Reason Code:

BEFORE

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29-Jun-2024
12:15
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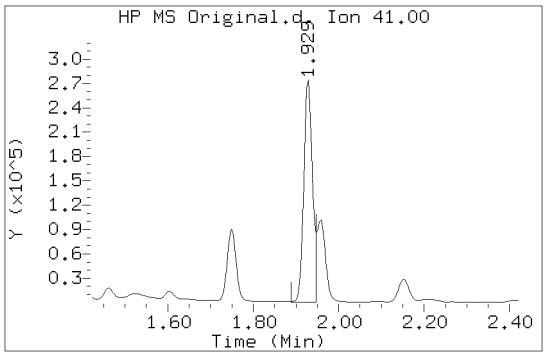

AFTER

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29-Jun-2024
12:15
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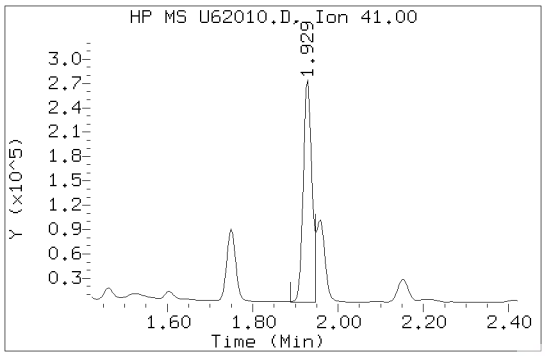


Data File: \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62011.D Page 1
Report Date: 29-Jun-2024 12:29

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62011.D
Lab Smp Id: VSTD200 Client Smp ID: VSTD200
Inj Date : 20-JUN-2024 14:36
Operator : TS Inst ID: VOA9.i
Smp Info : VSTD200;VSTD200;1;10
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240620.b\8260C.m
Meth Date : 29-Jun-2024 12:29 VOA9.i Quant Type: ISTD
Cal Date : 20-JUN-2024 14:36 Cal File: U62011.D
Als bottle: 11 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7014

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)	265522	50.0000	
2 Dichlorodifluoromethane	85	1.160	1.160	(0.241)	397011	50.0000	209.36(A)
3 Chloromethane	50	1.291	1.291	(0.268)	722213	50.0000	199.45
4 Propionitrile	54	4.335	4.335	(0.901)	516743	500.000	2011.03(A)
5 Vinyl Chloride	62	1.374	1.374	(0.286)	475593	50.0000	201.64(A)
6 Bromomethane	94	1.602	1.602	(0.333)	186065	50.0000	199.96
7 Chloroethane	64	1.692	1.692	(0.352)	287756	50.0000	199.74
8 Trichlorofluoromethane	101	1.891	1.891	(0.393)	520606	50.0000	204.70(A)
9 Acrolein	56	2.258	2.258	(0.469)	36445	100.000	401.53(A)
10 Acetone	43	2.404	2.404	(0.500)	250030	100.000	389.13
11 1,1-Dichloroethene	96	2.326	2.326	(0.483)	289014	50.0000	186.58
12 Isobutyl Alcohol	43	5.283	5.283	(1.098)	1051743	1000.00	4012.41(A)
13 Acetonitrile	39	2.667	2.667	(0.554)	398444	500.000	1994.82
14 Allyl Chloride	41	2.667	2.667	(0.554)	929291	50.0000	201.39(A)
15 Iodomethane	142	2.461	2.461	(0.512)	377703	100.000	342.96
16 Acrylonitrile	53	3.060	3.060	(0.636)	262510	100.000	406.81(A)
17 Methylene Chloride	84	2.787	2.787	(0.579)	332519	50.0000	198.56
18 Methyl tert-butyl ether	73	3.075	3.075	(0.639)	938308	50.0000	204.17(A)
19 Carbon Disulfide	76	2.513	2.513	(0.522)	1701816	100.000	398.67
20 trans-1,2-Dichloroethene	96	3.053	3.053	(0.635)	321804	50.0000	200.10(A)

21 Vinyl Acetate	43	4.335	4.335 (0.901)	370669	100.000	401.20(A)
22 1,1-Dichloroethane	63	3.507	3.507 (0.729)	606734	50.0000	199.81

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62011.D Page 2
Report Date: 29-Jun-2024 12:29

	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)	525056	50.0000	200.11(A)
	24 2-Butanone	43	4.256	4.256	(0.885)	368971	100.000	400.45(A)
	25 Methacrylonitrile	41	4.489	4.489	(0.933)	230621	50.0000	198.97(a)
	26 2,2-Dichloropropane	77	4.178	4.178	(0.868)	497369	50.0000	201.64(A)
	27 cis-1,2-Dichloroethene	96	4.189	4.189	(0.871)	381674	50.0000	199.86
	28 Chloroform	83	4.567	4.567	(0.949)	617716	50.0000	199.37
	29 Bromochloromethane	128	4.466	4.466	(0.928)	186385	50.0000	175.33
$	30 Dibromofluoromethane	113	4.744	4.744	(0.986)	342479	50.0000	194.17
	31 1,1,1-Trichloroethane	97	4.740	4.740	(0.985)	525362	50.0000	213.11(A)
	32 1,1-Dichloropropene	75	4.920	4.920	(0.887)	481801	50.0000	206.69(AM)
	33 1,2-Dichloroethane	62	5.171	5.171	(0.932)	485948	50.0000	199.43
	34 Carbon Tetrachloride	117	4.909	4.909	(0.885)	439845	50.0000	225.12(AM)
$	35 1,2-Dichloroethane-d4	65	5.092	5.092	(1.058)	412883	50.0000	183.54
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	382123	50.0000	
	37 Benzene	78	5.137	5.137	(0.926)	1432681	50.0000	182.17
	38 Trichloroethene	130	5.786	5.786	(1.043)	372108	50.0000	194.97
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	470315	50.0000	211.59(A)
	40 Methyl Methacrylate	41	5.823	5.823	(1.210)	155212	50.0000	223.38(A)
	41 2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	71631	100.000	(a)
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	386076	50.0000	185.34
	43 2-Nitropropane	43	6.506	6.506	(1.352)	104236	50.0000	248.29(AM)
	44 Dibromomethane	93	6.116	6.116	(1.102)	226978	50.0000	186.68
	45 4-Methyl-2-Pentanone	43	6.854	6.854	(0.837)	798331	100.000	409.56(A)
	46 cis-1,3-Dichloropropene	75	6.689	6.689	(1.205)	591195	50.0000	227.65(A)
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	353689	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	1300358	50.0000	189.41
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	537937	50.0000	221.66
	50 Toluene	91	6.982	6.982	(0.853)	1516812	50.0000	188.35
	51 trans-1,3-Dichloropropene	75	7.195	7.195	(1.297)	495274	50.0000	203.32(A)
	52 2-Hexanone	43	7.218	7.218	(0.882)	529191	100.000	406.81(A)
	53 1,1,2-Trichloroethane	83	7.356	7.356	(0.899)	277712	50.0000	178.34
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	605942	50.0000	185.15
	55 Dibromochloromethane	129	7.694	7.694	(0.940)	375582	50.0000	231.17(A)
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	300156	50.0000	199.15
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	338729	50.0000	197.06
	58 1-Chlorohexane	55	8.196	8.196	(1.477)	297557	50.0000	204.49(A)
	59 Chlorobenzene	112	8.211	8.211	(1.003)	967685	50.0000	199.97
	60 1,1,1,2-Tetrachloroethane	131	8.282	8.282	(1.012)	353341	50.0000	204.23(A)
	61 Ethylbenzene	106	8.309	8.309	(1.015)	508284	50.0000	203.94(A)
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	1271908	100.000	427.46(A)
	63 o-Xylene	106	8.747	8.747	(1.069)	623283	50.0000	212.56(A)
	64 Styrene	104	8.762	8.762	(1.071)	1084513	50.0000	221.22(A)
	66 Bromoform	173	8.920	8.920	(1.090)	259431	50.0000	199.01
	67 Isopropylbenzene	105	9.062	9.062	(1.107)	1574813	50.0000	216.47(A)
	68 1,1,2,2-Tetrachloroethane	83	9.328	9.328	(0.917)	472868	50.0000	201.78(A)
$	69 4-Bromofluorobenzene	95	9.193	9.193	(1.123)	489967	50.0000	181.64
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	190932	50.0000	
	71 1,2,3-Trichloropropane	75	9.366	9.366	(0.921)	495644	50.0000	203.53(AM)
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	99224	50.0000	200.76(A)
	73 n-Propylbenzene	91	9.415	9.415	(0.926)	1854754	50.0000	224.64(A)
	74 Bromobenzene	156	9.317	9.317	(0.916)	432960	50.0000	193.00
	75 1,3,5-Trimethylbenzene	105	9.564	9.564	(0.940)	1306821	50.0000	202.35(A)

76	2-Chlorotoluene	91	9.482	9.482 (0.932)	1096591	50.0000	196.26
77	4-Chlorotoluene	91	9.576	9.576 (0.941)	1284912	50.0000	202.62(A)

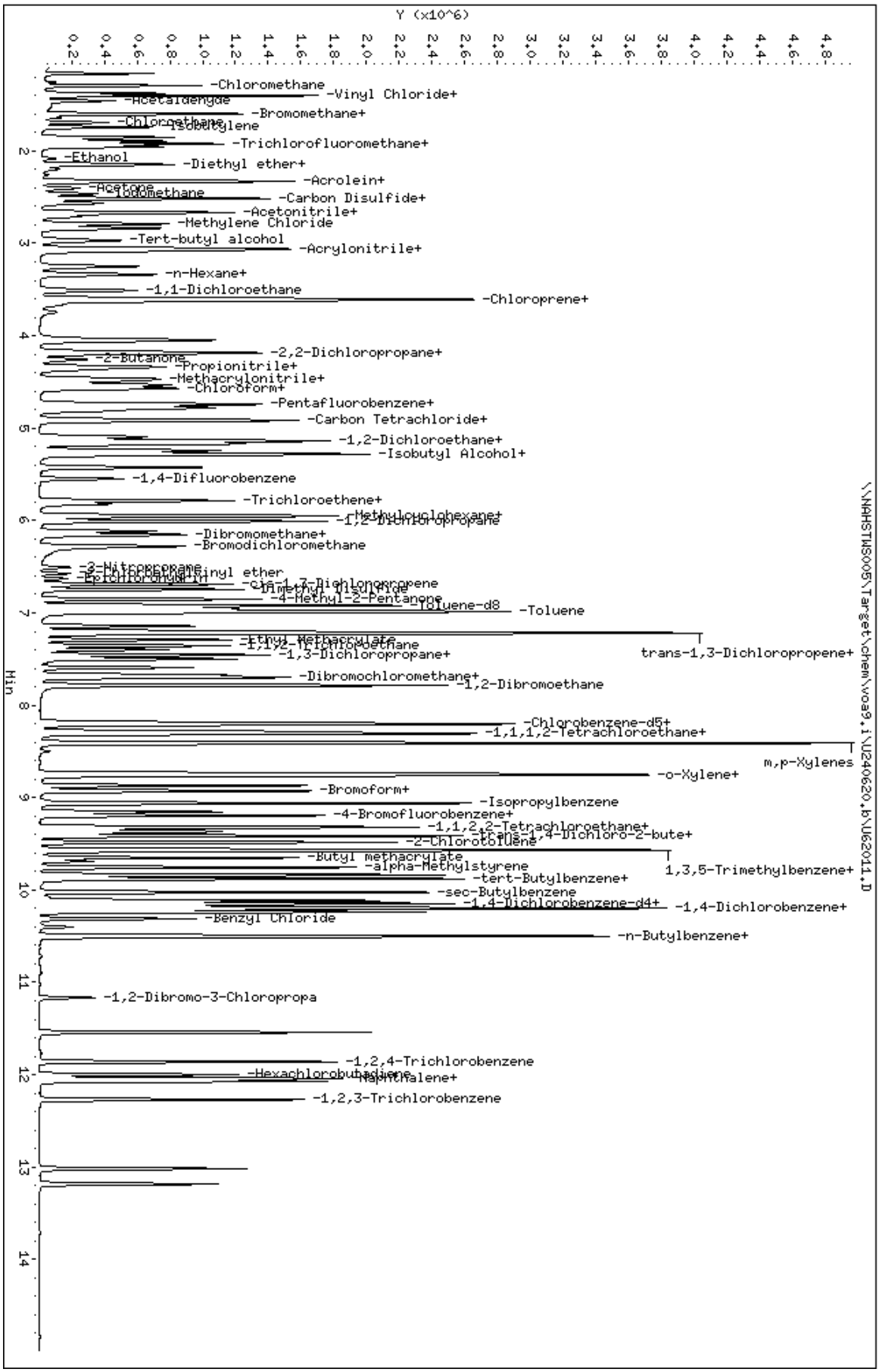
Data File: \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62011.D Page 3
Report Date: 29-Jun-2024 12:29

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.838	9.838	(0.967)	1107572	50.0000	220.10(A)
79	1,2,4-Trimethylbenzene	105	9.879	9.879	(0.971)	1293282	50.0000	212.85(AM)
81	sec-Butylbenzene	105	10.026	10.026	(0.986)	1501256	50.0000	224.01(A)
82	p-Isopropyltoluene	119	10.149	10.149	(0.998)	1343308	50.0000	202.81(A)
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	765965	50.0000	185.57
84	1,4-Dichlorobenzene	146	10.190	10.190	(1.002)	786101	50.0000	200.77(A)
86	Benzyl Chloride	91	10.310	10.310	(1.260)	611338	50.0000	204.06(A)
87	n-Butylbenzene	91	10.494	10.494	(1.032)	1186519	50.0000	202.49(A)
88	1,2-Dichlorobenzene	146	10.505	10.505	(1.033)	746049	50.0000	181.53
89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	71040	50.0000	199.52
90	1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	530312	50.0000	213.28(A)
91	Hexachlorobutadiene	225	12.001	12.001	(1.180)	229632	50.0000	208.28(A)
92	Naphthalene	128	12.069	12.069	(1.186)	1208773	50.0000	202.17(A)
93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	477354	50.0000	209.67(A)
146	Methyl acetate	43	2.708	2.708	(0.563)	255797	50.0000	193.30
138	Freon TF	101	2.329	2.329	(0.484)	282375	50.0000	199.67
141	Cyclohexane	56	4.781	4.781	(0.994)	508774	50.0000	201.59(A)
142	Tetrahydrofuran	42	4.537	4.537	(0.943)	135317	100.000	430.31(A)
147	Methylcyclohexane	55	5.943	5.943	(1.071)	950834	50.0000	234.33(A)
135	1,4-Dioxane	88	6.164	6.164	(1.281)	87547	1000.00	4038.10(A)
132	n-Butanol	56	5.823	5.823	(1.210)	228205	1000.00	4002.40(A)
136	n-Hexane	57	3.338	3.338	(0.694)	360842	50.0000	211.94(A)
139	Diethyl ether	59	2.138	2.138	(0.445)	254790	50.0000	200.85(A)
148	Tert-butyl alcohol	59	2.967	2.967	(0.617)	602022	1000.00	3998.62
149	Isopropyl alcohol	45	2.566	2.566	(0.533)	469393	1000.00	4061.48(A)
156	Diisopropyl ether	45	3.615	3.615	(0.751)	1191529	50.0000	186.05
162	Butyl acrylate	55	8.732	8.732	(1.067)	766568	50.0000	235.45(A)
164	Dicyclopentadiene	66	10.202	10.202	(1.003)	1750976	50.0000	211.80(A)
166	1,2,3-Trimethylbenzene	105	10.235	10.235	(1.006)	1218639	50.0000	223.15(A)
167	Ethanol	45	2.082	2.082	(0.433)	87256	1000.00	3950.13
172	tert-Butyl formate	59	5.242	5.242	(1.090)	696379	100.000	259.47(A)
151	4-Methyl-2-pentanol	45	7.218	7.218	(1.301)	2343873	1000.00	4447.69(A)
140	1,3-Butadiene	54	1.400	1.400	(0.291)	468459	50.0000	205.46(A)
182	Epichlorohydrin	57	6.629	6.629	(1.195)	84999	200.000	691.58
M 94	1,2-Dichloroethylene (total)	96				703478	100.000	(a)
145	alpha-Methylstyrene	118	9.756	9.756	(0.959)	520152	50.0000	199.29
130	Ethyl Acetate	43	4.534	4.534	(0.942)	122455	50.0000	201.91(A)
131	Methyl Acrylate	55	4.365	4.365	(0.907)	436403	50.0000	198.32
189	n-Butyl acetate	43	7.705	7.705	(0.941)	601505	50.0000	213.30(A)
134	Cyclohexanone	55	9.152	9.152	(0.900)	422606	1000.00	4018.17(A)
185	Isoprene	39	2.150	2.150	(0.447)	72752	50.0000	188.71
188	Isopropyl acetate	43	5.283	5.283	(0.952)	1068675	50.0000	209.14(A)
150	Allyl alcohol	57	3.338	3.338	(0.694)	360842	1000.00	4238.91(A)
194	Acetaldehyde	44	1.456	1.456	(0.303)	348283	200.000	784.67(M)
202	Isobutylene	41	1.741	1.741	(0.362)	182427	50.0000	201.96(AM)
133	Ethyl Acrylate	55	5.943	5.943	(1.235)	950834	50.0000	227.65(A)
163	Butyl methacrylate	41	9.651	9.651	(0.949)	390507	50.0000	203.62(A)
159	Propylene oxide	43	2.195	2.195	(0.456)	49793	100.000	410.48(A)
178	Ethylene oxide	44	1.595	1.595	(0.332)	810765	100.000	411.30(A)
203	2-Ethylhexyl Acrylate	55	12.042	12.042	(1.184)	565939	50.0000	195.66
204	Tetrahydrothiophene	60	7.671	7.671	(0.937)	411483	50.0000	204.72(A)
205	sec-Butyl Ether	57	7.218	7.218	(0.882)	791396	50.0000	200.26(AM)

187 n-Amyl acetate	43	8.931	8.931 (1.091)	642970	50.0000	205.48(A)
206 2-Chloropropene	41	1.921	1.921 (0.399)	569361	50.0000	208.87(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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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\U240620.b\U62011.D
Inj Date : 20-JUN-2024 14:36
InstruID : VOA9.i
LabSampID : VSTD200

1,1-Dichloropropene (563-58-6)

Reason Code:

BEFORE

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266969
29-Jun-2024
12:18
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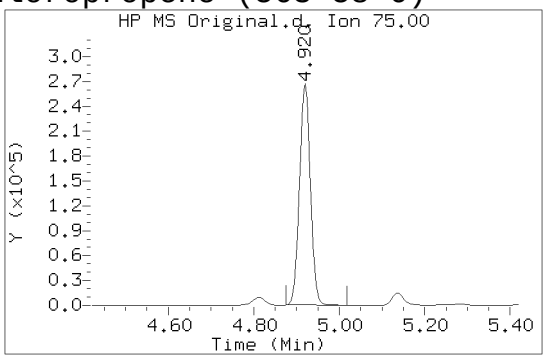

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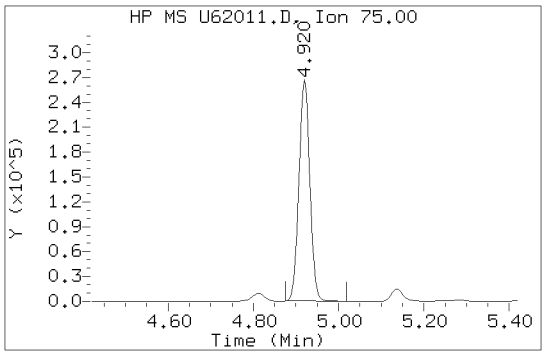

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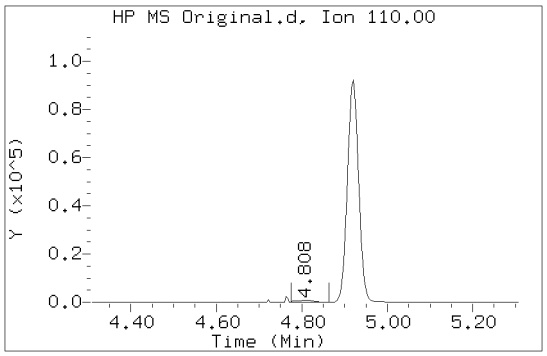

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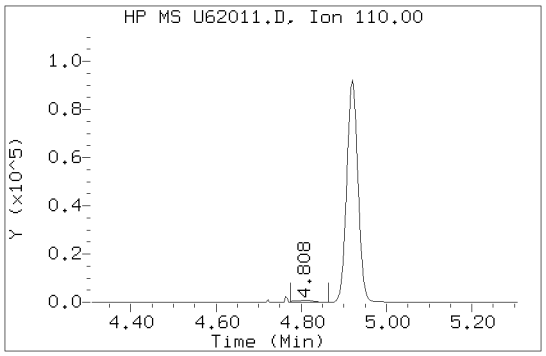

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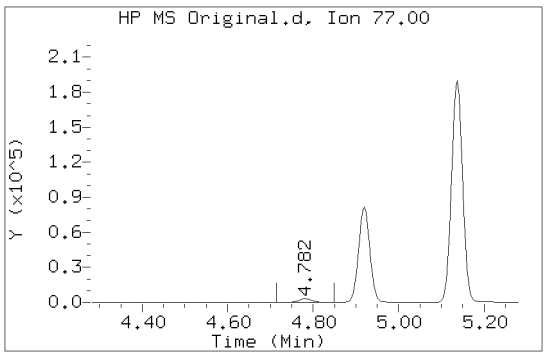

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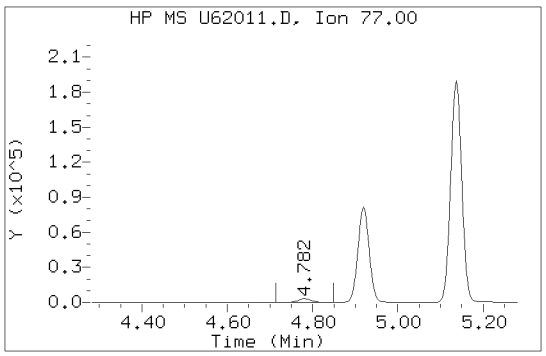

Carbon Tetrachloride (56-23-5)

Reason Code:

BEFORE

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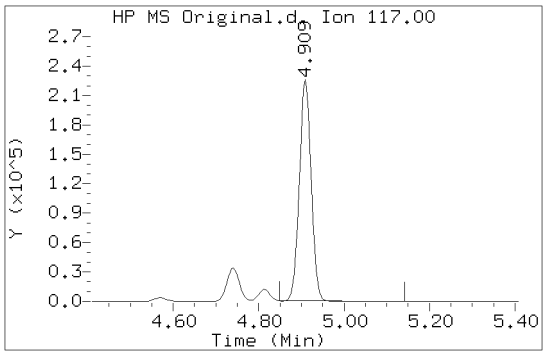

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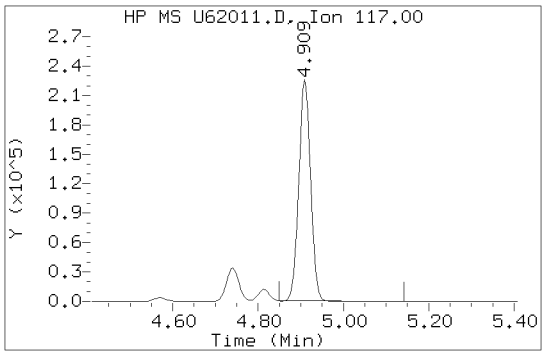

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InstruID : VOA9.i
LabSampID : VSTD200

Carbon Tetrachloride (56-23-5)

Reason Code:

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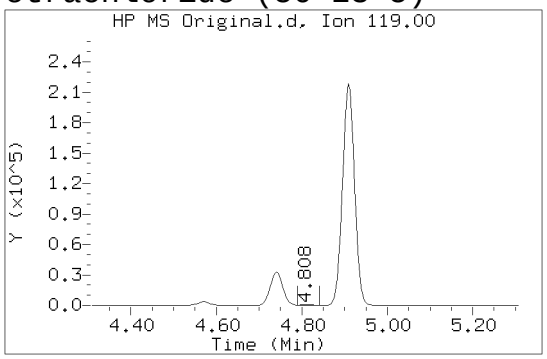

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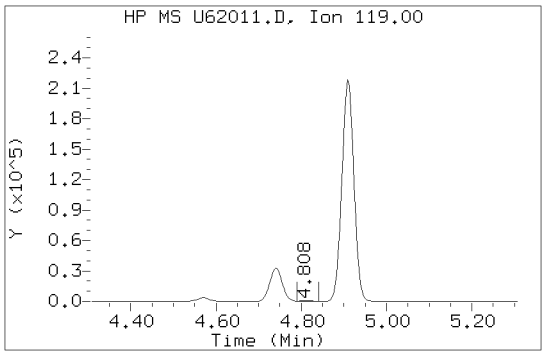

1,2,3-Trichloropropane (96-18-4)

Reason Code:

BEFORE

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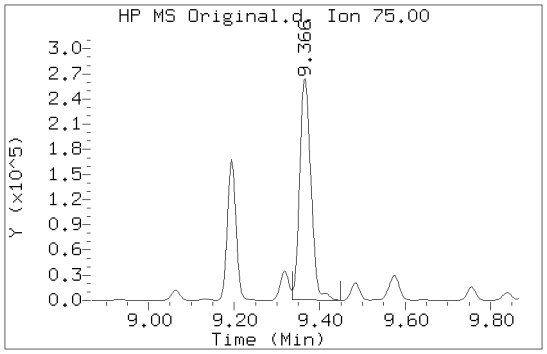

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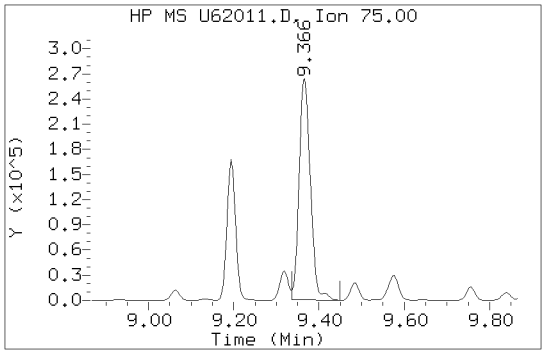

BEFORE

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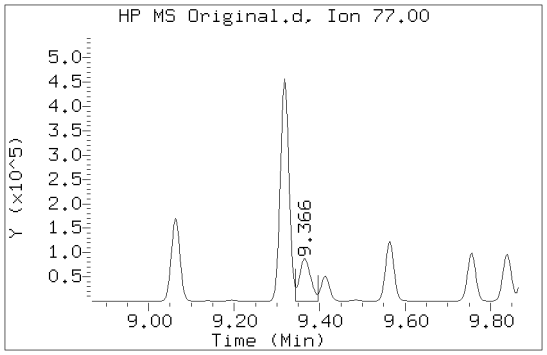

AFTER

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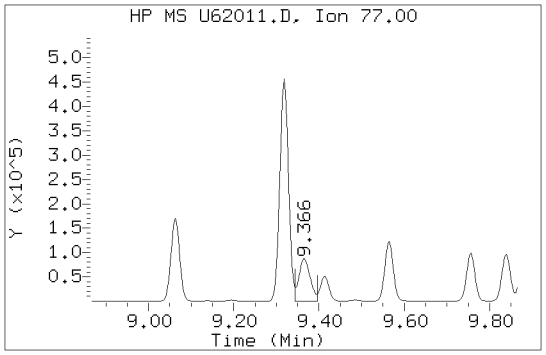

1,2,4-Trimethylbenzene (95-63-6)

Reason Code:

BEFORE

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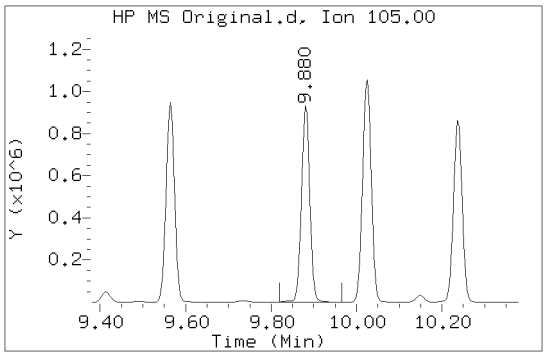

AFTER

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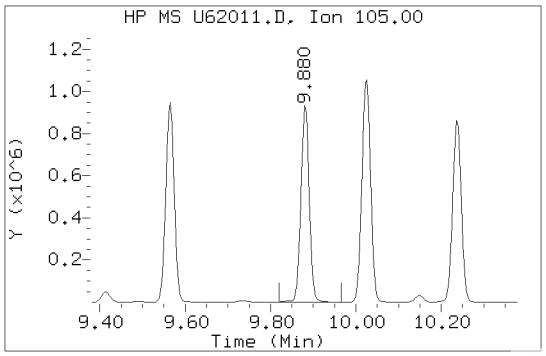

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Inj Date : 20-JUN-2024 14:36
InstruID : VOA9.i
LabSampID : VSTD200

1,2,4-Trimethylbenzene (95-63-6)

Reason Code:

BEFORE

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29-Jun-2024
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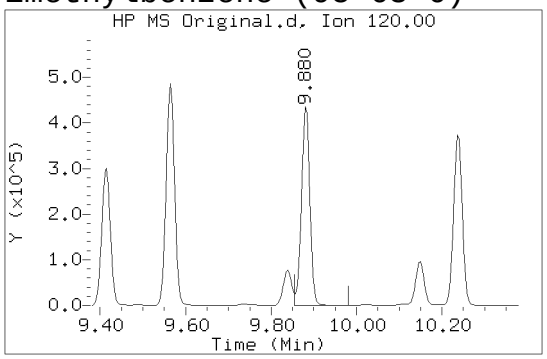

AFTER

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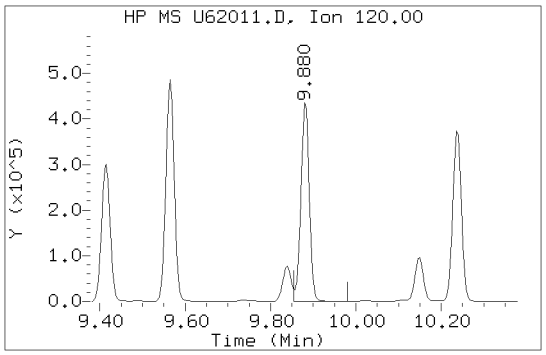

2-Nitropropane (79-46-9)

Reason Code:

BEFORE

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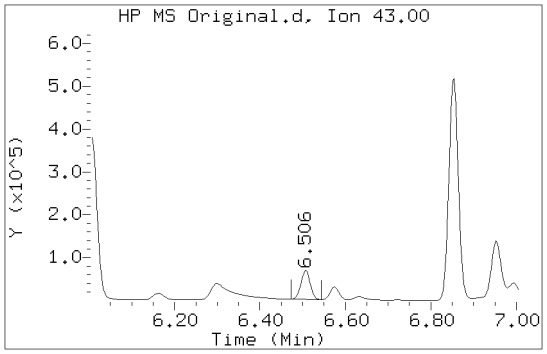

AFTER

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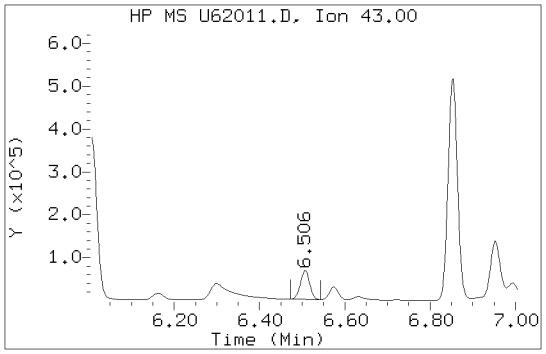

BEFORE

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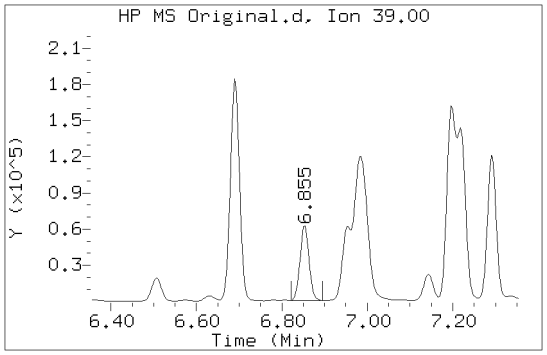

AFTER

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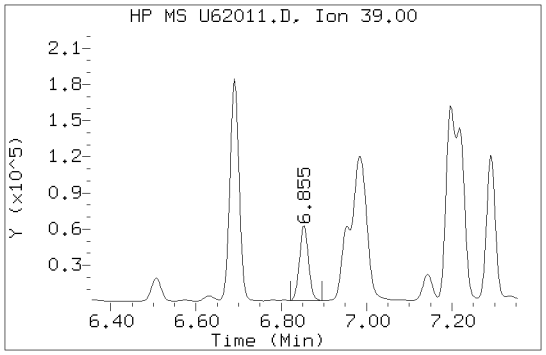

Acetaldehyde (75-07-0)

Reason Code:

BEFORE

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HEIGHT
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29-Jun-2024
12:18
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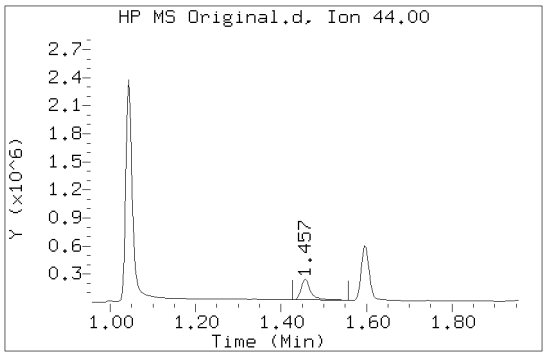

AFTER

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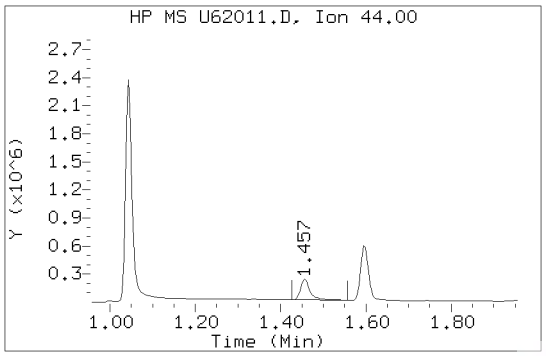

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Inj Date : 20-JUN-2024 14:36
InstruID : VOA9.i
LabSampID : VSTD200

Acetaldehyde (75-07-0)

Reason Code:

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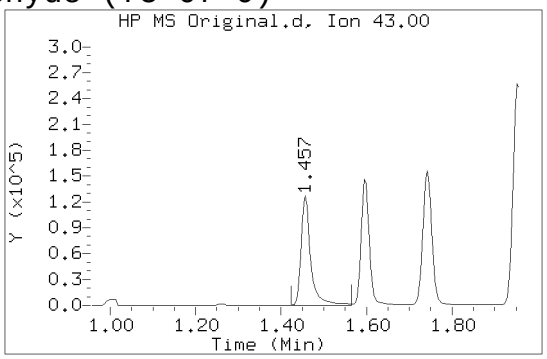

AFTER

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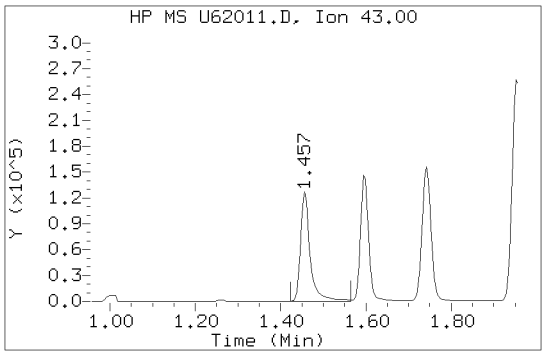

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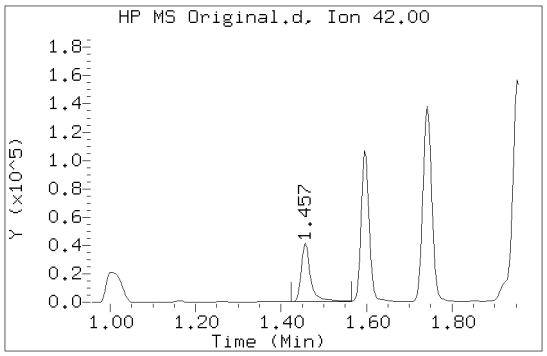

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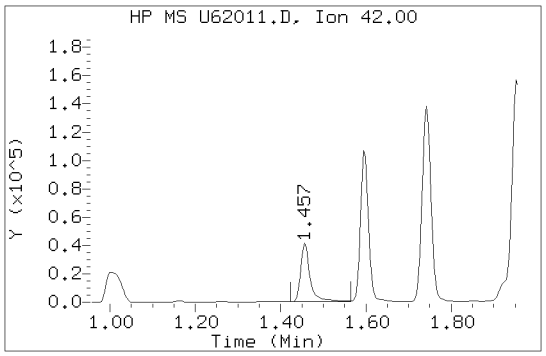

Isobutylene (115-11-7)

Reason Code:

BEFORE

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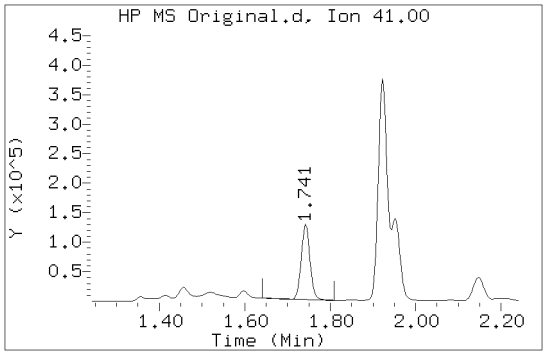
zaid



AFTER

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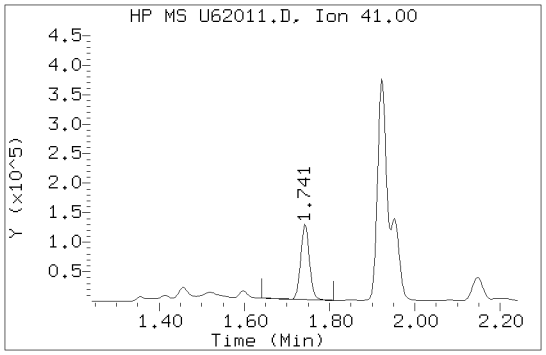

BEFORE

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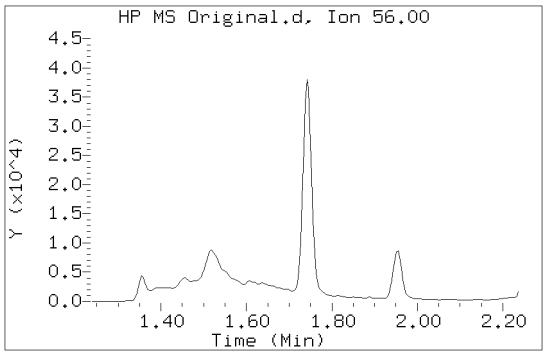

AFTER

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29-Jun-2024
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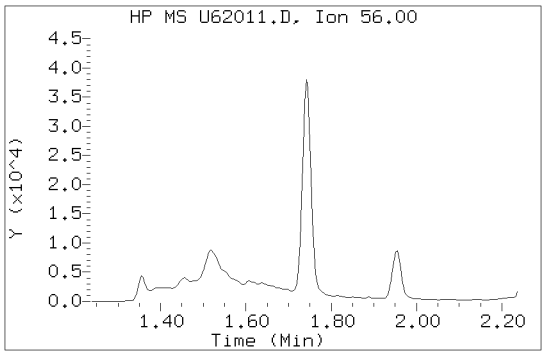

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LabSampID : VSTD200

Isobutylene (115-11-7)

Reason Code:

BEFORE

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12:18
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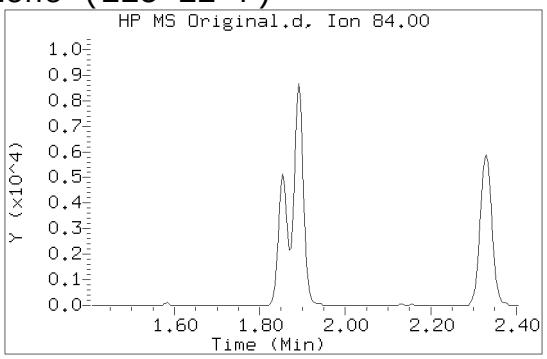

AFTER

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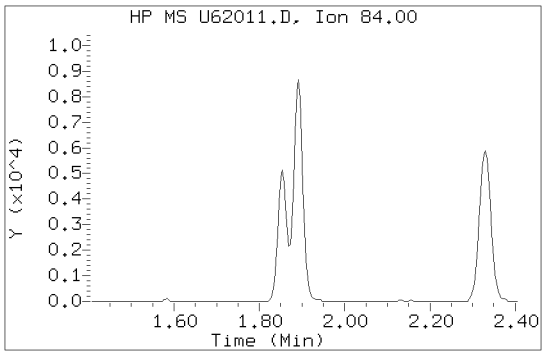

sec-Butyl Ether (6863-58-7)

Reason Code:

BEFORE

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12:18
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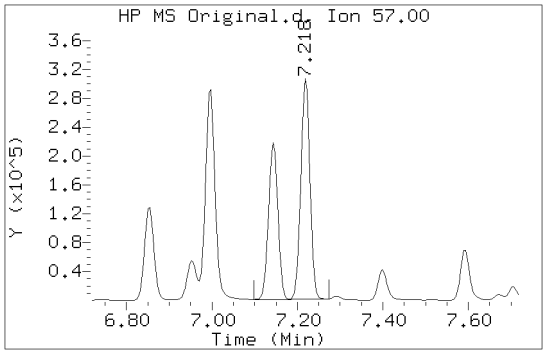
zaid



AFTER

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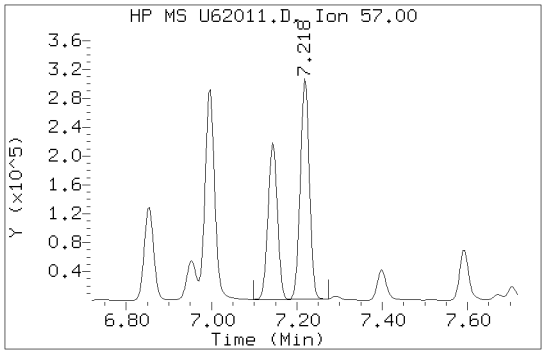

2-Chloropropene (557-98-2)

Reason Code:

BEFORE

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29-Jun-2024
12:18
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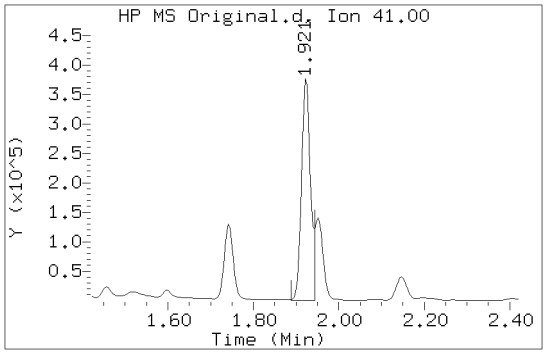

AFTER

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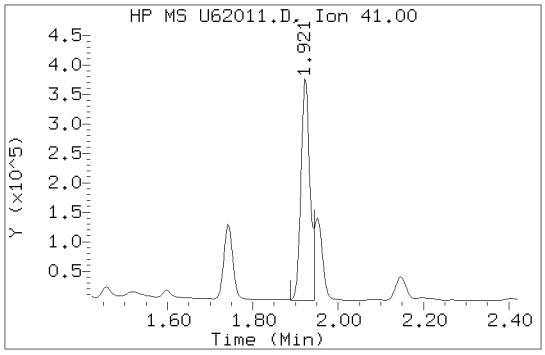

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Report Date: 21-Jun-2024 17:18

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240620.b\U62013.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 20-JUN-2024 15:19
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\U240620.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	
9.193	9.180	(0.000)	95	63128			0.00- 100.00	100.00
9.193	9.180	(0.000)	50	12493			15.00- 40.00	19.79
9.193	9.180	(0.000)	75	30992			30.00- 60.00	49.09
9.193	9.180	(0.000)	96	4476			5.00- 9.00	7.09
9.193	9.180	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
9.193	9.180	(0.000)	174	51952			50.00- 0.00	82.30
9.193	9.180	(0.000)	175	4648			5.00- 9.00	8.95
9.193	9.180	(0.000)	176	51216			95.00- 101.00	98.58
9.193	9.180	(0.000)	177	3638			5.00- 9.00	7.10

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62014.D Page 1
Report Date: 09-Jul-2024 09:59

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62014.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 20-JUN-2024 15:40
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\U240620.b\8260C.m
Meth Date : 09-Jul-2024 09:58 r.patel Quant Type: ISTD
Cal Date : 20-JUN-2024 11:23 Cal File: U62002.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	4.815	4.815	(1.000)	261467	50.0000	
2 Dichlorodifluoromethane	85	1.164	1.037	(0.242)	89254	47.7978	47.79
3 Chloromethane	50	1.295	1.299	(0.269)	178137	43.2675	43.26
4 Propionitrile	54	4.335	4.335	(0.900)	116063	480.383	480.38
5 Vinyl Chloride	62	1.378	1.007	(0.286)	106724	46.0497	46.04
6 Bromomethane	94	1.618	1.621	(0.336)	48194	55.8053	55.80
7 Chloroethane	64	1.700	1.692	(0.353)	68283	46.6689	46.66
8 Trichlorofluoromethane	101	1.895	1.891	(0.394)	116562	46.5447	46.54
9 Acrolein	56	2.262	2.258	(0.470)	8126	100.726	100.72
10 Acetone	43	2.405	2.404	(0.499)	64078	95.4981	95.49
11 1,1-Dichloroethene	96	2.330	2.326	(0.484)	66469	43.5769	43.57
12 Isobutyl Alcohol	43	5.284	5.288	(1.097)	238029	922.168	922.16
13 Acetonitrile	39	2.667	2.667	(0.554)	89295	445.923	445.92
14 Allyl Chloride	41	2.671	2.671	(0.555)	209796	44.4363	44.43
15 Iodomethane	142	2.465	2.465	(0.512)	72500	118.830	118.82
16 Acrylonitrile	53	3.065	3.060	(0.636)	56583	88.6490	88.64
17 Methylene Chloride	84	2.791	2.791	(0.580)	83599	45.4003	45.40
18 Methyl tert-butyl ether	73	3.080	3.075	(0.640)	205219	45.6735	45.67
19 Carbon Disulfide	76	2.517	2.513	(0.523)	387301	92.1377	92.13
20 trans-1,2-Dichloroethene	96	3.057	3.053	(0.635)	74817	46.8329	46.83

21 Vinyl Acetate	43	4.335	4.335 (0.900)	87541	95.9801	95.98
22 1,1-Dichloroethane	63	3.511	3.507 (0.729)	127549	42.0314	42.03

	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)	117530	45.2938	45.29
	24 2-Butanone	43	4.260	4.256	(0.885)	85973	94.8680	94.86
	25 Methacrylonitrile	41	4.493	4.489	(0.933)	54941	48.0543	48.05(a)
	26 2,2-Dichloropropane	77	4.178	4.178	(0.868)	106826	44.4202	44.42
	27 cis-1,2-Dichloroethene	96	4.193	4.189	(0.871)	91944	48.6382	48.63
	28 Chloroform	83	4.572	4.572	(0.949)	149488	48.3308	48.33
	29 Bromochloromethane	128	4.467	4.466	(0.928)	45353	43.3270	43.32
$	30 Dibromofluoromethane	113	4.744	4.748	(0.985)	82332	47.4047	47.40
	31 1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	119079	49.0535	49.05
	32 1,1-Dichloropropene	75	4.920	4.812	(0.887)	110224	48.2316	48.23
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	118273	48.6502	48.65
	34 Carbon Tetrachloride	117	4.909	4.815	(0.885)	94380	49.2736	49.27
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	100440	45.3415	45.34
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	374629	50.0000	
	37 Benzene	78	5.138	5.141	(0.926)	342905	44.4748	44.47
	38 Trichloroethene	130	5.786	5.786	(1.043)	86889	46.4381	46.43
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	104604	48.0026	48.00
	40 Methyl Methacrylate	41	5.820	5.823	(1.209)	30364	44.3775	44.37
	41 2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	6333	117.723	117.72(M)
	42 1,2-Dichloropropane	63	6.007	6.004	(1.082)	91658	44.8824	44.88
	43 2-Nitropropane	43	6.506	6.506	(1.351)	21476	51.9496	51.94
	44 Dibromomethane	93	6.116	6.116	(1.102)	53995	45.2970	45.29
	45 4-Methyl-2-Pentanone	43	6.851	6.854	(0.837)	172612	92.0975	92.09
	46 cis-1,3-Dichloropropene	75	6.690	6.689	(1.205)	126870	49.8311	49.83
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	340082	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	312479	47.3386	47.33
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	111414	46.8284	46.82
	50 Toluene	91	6.978	6.982	(0.853)	360628	46.5733	46.57
	51 trans-1,3-Dichloropropene	75	7.196	7.195	(1.296)	105437	45.8820	45.88
	52 2-Hexanone	43	7.214	7.218	(0.881)	115864	91.9567	91.95
	53 1,1,2-Trichloroethane	83	7.353	7.356	(0.898)	67802	45.2836	45.28
	54 1,3-Dichloropropane	76	7.496	7.499	(0.916)	144168	45.8147	45.81
	55 Dibromochloromethane	129	7.690	7.694	(0.940)	82303	52.6856	52.68
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	68080	46.9781	46.97
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	78189	47.3082	47.30
	58 1-Chlorohexane	55	8.197	8.185	(1.477)	63799	44.1476	44.14
	59 Chlorobenzene	112	8.208	8.211	(1.003)	229265	48.6838	48.68
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.282	(1.012)	78588	47.2418	47.24
	61 Ethylbenzene	106	8.305	8.309	(1.015)	116912	48.7876	48.78
	62 m,p-Xylenes	106	8.410	8.407	(1.027)	291148	101.764	101.76
	63 o-Xylene	106	8.748	8.748	(1.069)	143049	50.7378	50.73
	64 Styrene	104	8.763	8.763	(1.071)	244478	51.8656	51.86
	66 Bromoform	173	8.916	8.920	(1.089)	50606	47.7734	47.77
	67 Isopropylbenzene	105	9.063	9.062	(1.107)	357875	51.1626	51.16
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.328	(0.917)	110688	48.3145	48.31
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	117200	45.1887	45.18
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	185702	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	110149	47.1408	47.14
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	21710	45.6843	45.68
	73 n-Propylbenzene	91	9.411	9.415	(0.925)	417929	52.0446	52.04
	74 Bromobenzene	156	9.317	9.317	(0.916)	100586	46.1027	46.10
	75 1,3,5-Trimethylbenzene	105	9.561	9.564	(0.940)	290948	47.6256	47.62

76	2-Chlorotoluene	91	9.482	9.482 (0.932)	251992	46.3702	46.37
77	4-Chlorotoluene	91	9.576	9.576 (0.941)	297691	48.2675	48.26

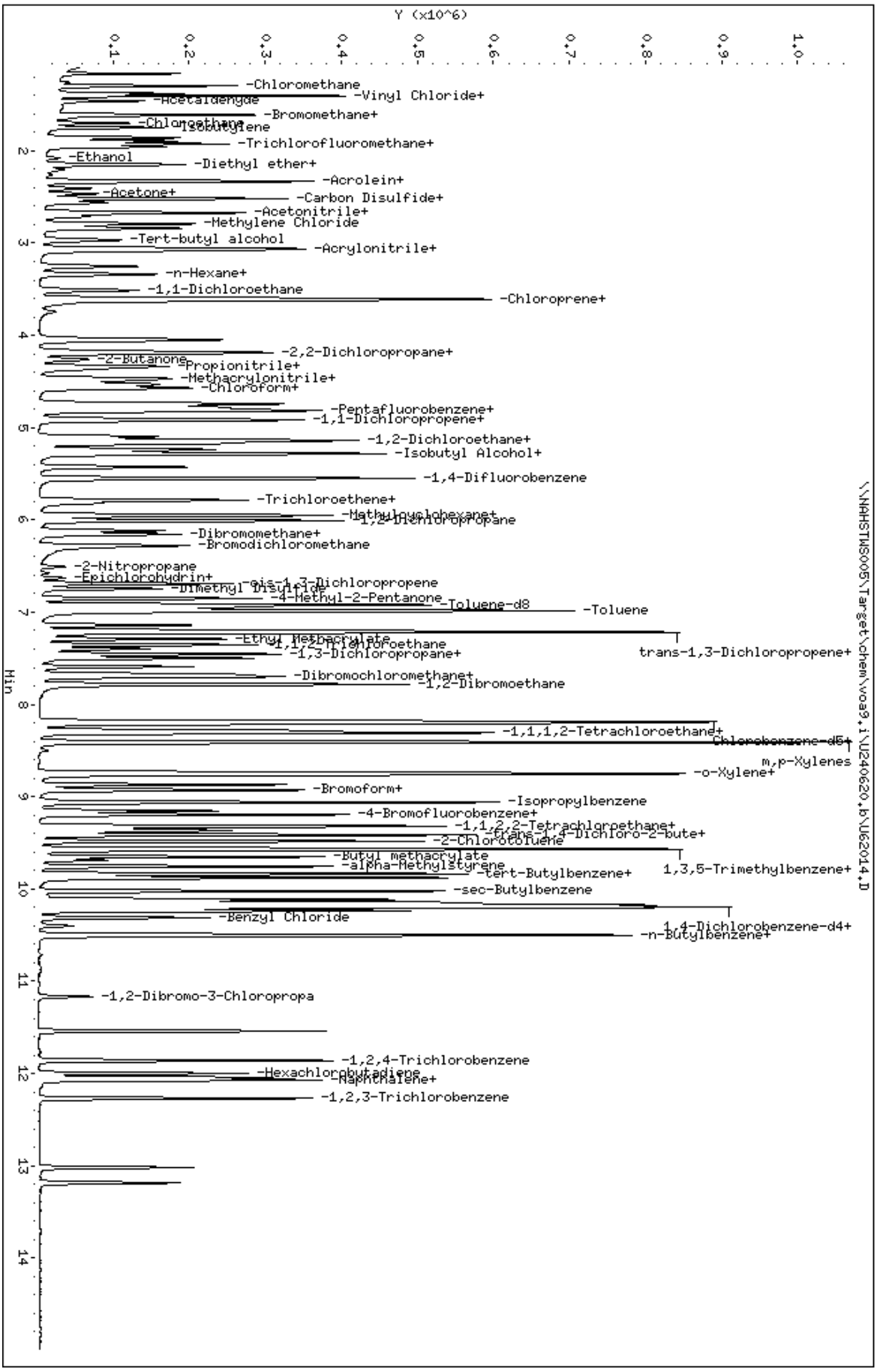
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
78	tert-Butylbenzene	119	9.838	9.839	(0.967)	254799	52.0611	52.06
79	1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	279039	47.2201	47.22
81	sec-Butylbenzene	105	10.022	10.026	(0.985)	334389	51.3021	51.30
82	p-Isopropyltoluene	119	10.146	10.149	(0.997)	293463	46.8335	46.83
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	179535	44.7210	44.72
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	186962	48.6202	48.62
86	Benzyl Chloride	91	10.311	10.315	(1.260)	144421	46.0411	46.04
87	n-Butylbenzene	91	10.495	10.494	(1.032)	255103	45.8227	45.82
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	177510	44.4097	44.40
89	1,2-Dibromo-3-Chloropropane	155	11.169	11.162	(1.098)	14389	50.1899	50.18
90	1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	115544	47.7799	47.77
91	Hexachlorobutadiene	225	12.001	12.001	(1.180)	49383	46.0548	46.05
92	Naphthalene	128	12.069	12.076	(1.186)	256651	45.6680	45.66
93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	105818	47.7895	47.78
146	Methyl acetate	43	2.712	2.708	(0.563)	62456	45.9808	45.98
138	Freon TF	101	2.334	2.329	(0.485)	63520	45.2055	45.20
141	Cyclohexane	56	4.782	4.812	(0.993)	116914	46.3044	46.30
142	Tetrahydrofuran	42	4.538	4.537	(0.942)	30184	97.4748	97.47
147	Methylcyclohexane	55	5.944	5.947	(1.071)	197320	49.6025	49.60
135	1,4-Dioxane	88	6.165	6.169	(1.280)	18480	936.200	936.20
132	n-Butanol	56	5.820	5.823	(1.209)	42522	896.063	896.06
136	n-Hexane	57	3.338	3.338	(0.693)	74893	44.6717	44.67
139	Diethyl ether	59	2.142	2.138	(0.445)	59031	46.5003	46.50
148	Tert-butyl alcohol	59	2.967	2.967	(0.616)	127517	850.225	850.22
149	Isopropyl alcohol	45	2.562	2.559	(0.532)	98502	853.455	853.45
156	Diisopropyl ether	45	3.619	3.615	(0.752)	270238	42.8506	42.85
162	Butyl acrylate	55	8.733	8.740	(1.067)	148080	47.3028	47.30
164	Dicyclopentadiene	66	10.202	10.198	(1.003)	378845	47.1183	47.11
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	259997	48.9520	48.95
167	Ethanol	45	2.079	2.082	(0.432)	18614	837.297	837.29
172	tert-Butyl formate	59	5.239	5.242	(1.088)	141997	108.444	108.44
151	4-Methyl-2-pentanol	45	7.214	7.218	(1.300)	467941	905.719	905.71
140	1,3-Butadiene	54	1.404	1.400	(0.292)	106198	47.3004	47.30
182	Epichlorohydrin	57	6.630	6.629	(1.195)	13359	203.624	203.62
M 94	1,2-Dichloroethylene (total)	96				166761	95.6283	95.62
M 95	Xylenes (total)	106				434197	152.548	152.54
145	alpha-Methylstyrene	118	9.756	9.756	(0.959)	104376	48.7601	48.76
130	Ethyl Acetate	43	4.530	4.534	(0.941)	29264	47.3877	47.38(M)
131	Methyl Acrylate	55	4.365	4.365	(0.907)	96077	44.3387	44.33
189	n-Butyl acetate	43	7.705	7.705	(0.941)	132331	48.8044	48.80
134	Cyclohexanone	55	9.152	9.156	(0.900)	90319	944.232	944.23
185	Isoprene	39	2.154	2.150	(0.447)	17152	45.1807	45.18
188	Isopropyl acetate	43	5.284	5.283	(0.952)	238252	47.5600	47.55
150	Allyl alcohol	57	3.338	3.338	(0.693)	74893	893.433	893.43
194	Acetaldehyde	44	1.460	1.456	(0.303)	77229	176.694	176.69(M)
200	Dimethyl Disulfide	94	6.746	6.745	(0.824)	67097	52.4852	52.48
202	Isobutylene	41	1.749	1.741	(0.363)	39900	45.8789	45.87(M)
133	Ethyl Acrylate	55	5.944	5.943	(1.234)	197320	47.9755	47.97
163	Butyl methacrylate	41	9.647	9.651	(0.948)	98704	52.4662	52.46
159	Propylene oxide	43	2.199	2.195	(0.457)	12407	103.867	103.86
178	Ethylene oxide	44	1.606	1.595	(0.334)	187952	96.8283	96.82(M)
203	2-Ethylhexyl Acrylate	55	12.043	12.046	(1.184)	94278	46.9683	46.96

204 Tetrahydrothiophene	60	7.672	7.672 (0.937)	93801	48.5360	48.53(A)
205 sec-Butyl Ether	57	7.214	7.214 (0.881)	165631	43.5894	43.58(AM)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
187 n-Amyl acetate	43	8.931	8.931	(1.091)	140560	46.7195	46.71
206 2-Chloropropene	41	1.925	1.925	(0.400)	114526	42.6672	42.66(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.



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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

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62014.D
Inj Date : 20-JUN-2024 15:40
InstruID : VOA9.i
LabSampID : VSTD050

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

BEFORE
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3503
29-Jun-2024
12:19
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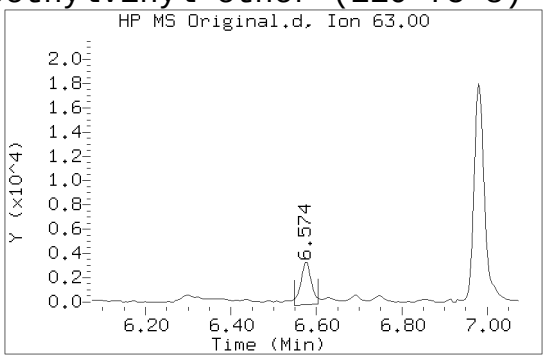

AFTER
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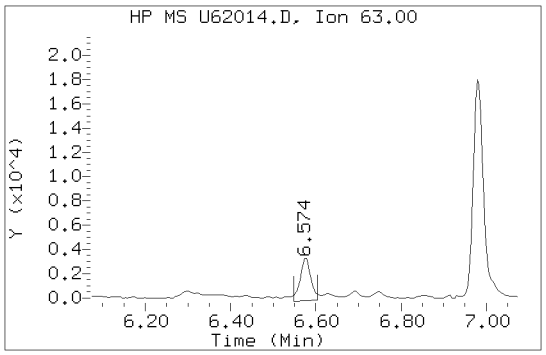

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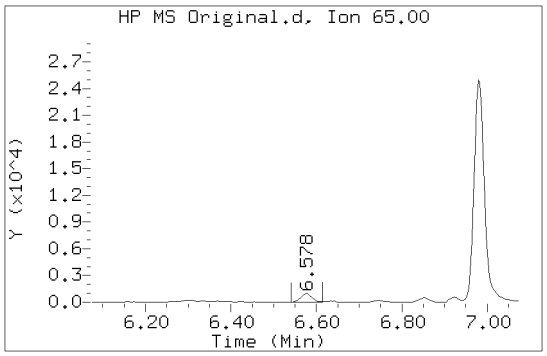

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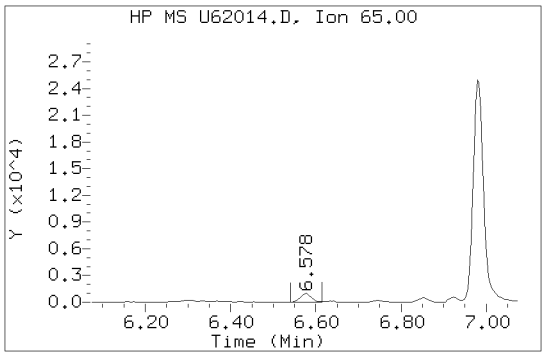

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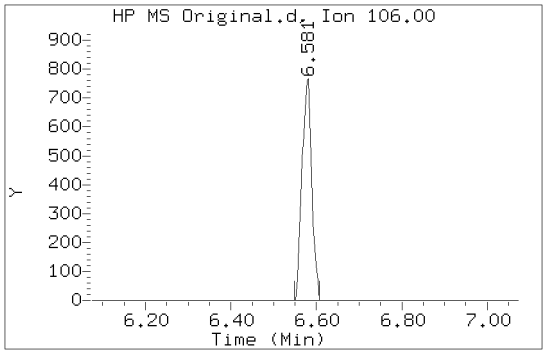

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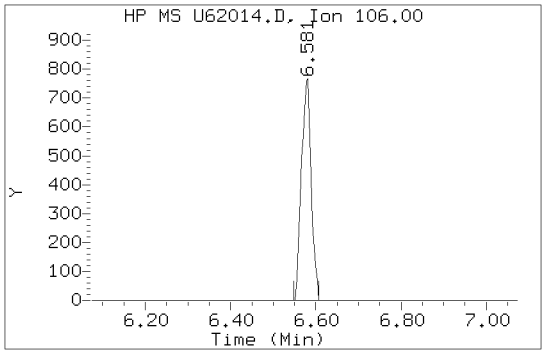

Ethyl Acetate (141-78-6)

Reason Code:

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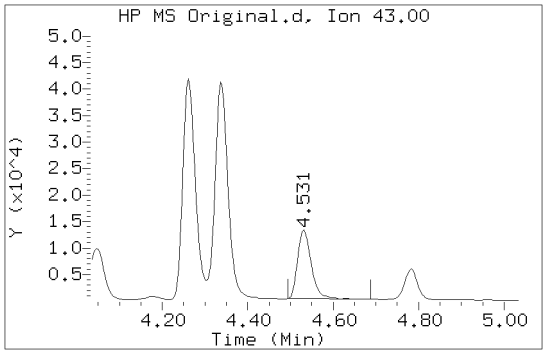

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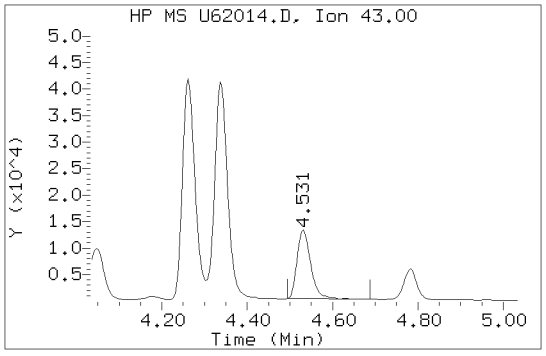

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InstruID : VOA9.i
LabSampID : VSTD050

Ethyl Acetate (141-78-6)

Reason Code:

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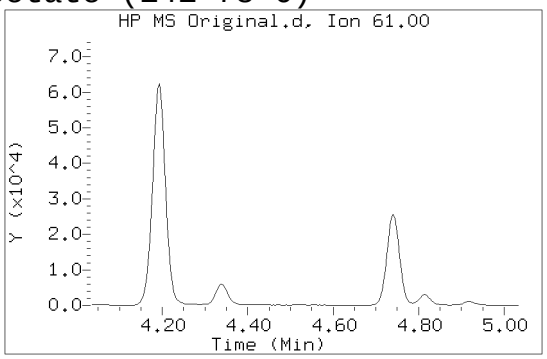
zaid



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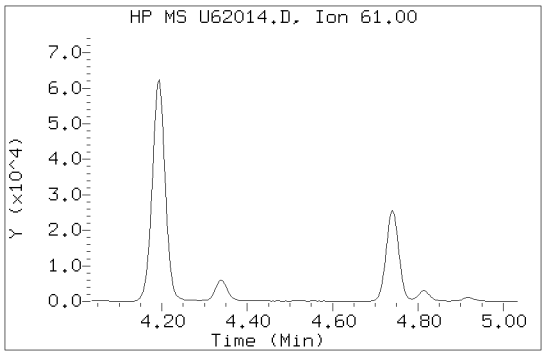

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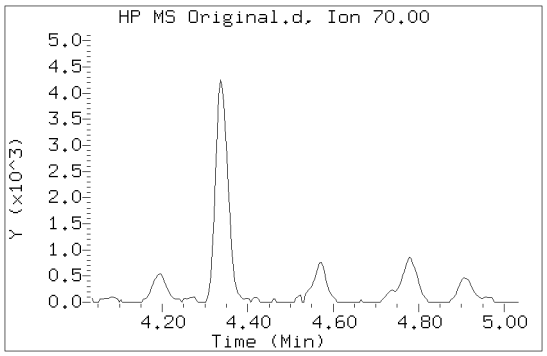

AFTER
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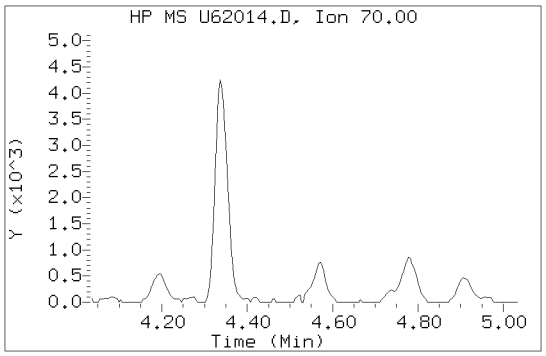

Ethylene oxide (75-21-8)

Reason Code:

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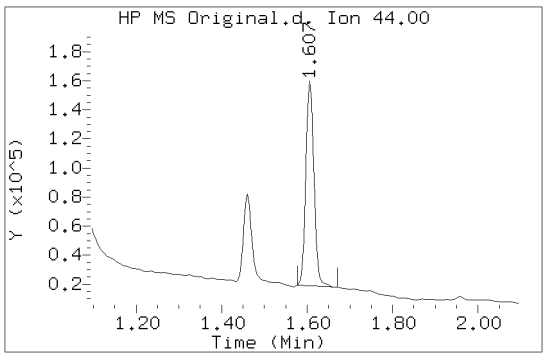

AFTER
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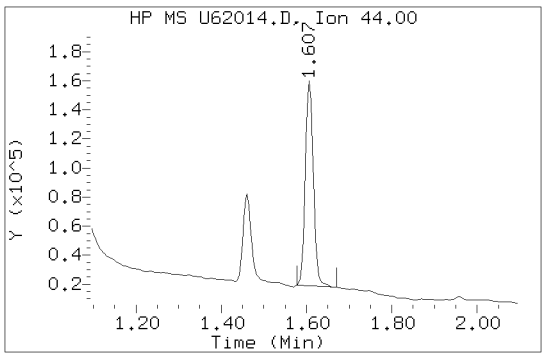

Acetaldehyde (75-07-0)

Reason Code:

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12:19
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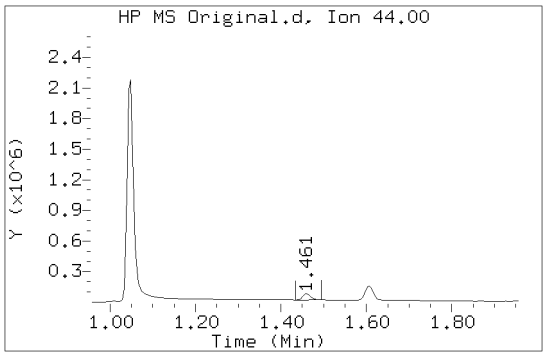

AFTER
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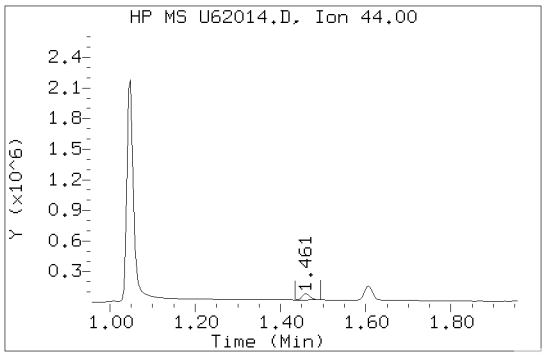

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Inj Date : 20-JUN-2024 15:40
InstruID : VOA9.i
LabSampID : VSTD050

Acetaldehyde (75-07-0)

Reason Code:

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29-Jun-2024
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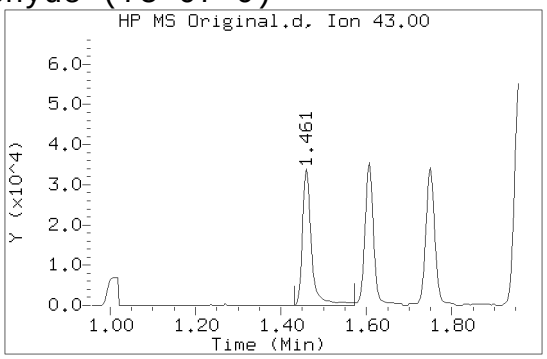

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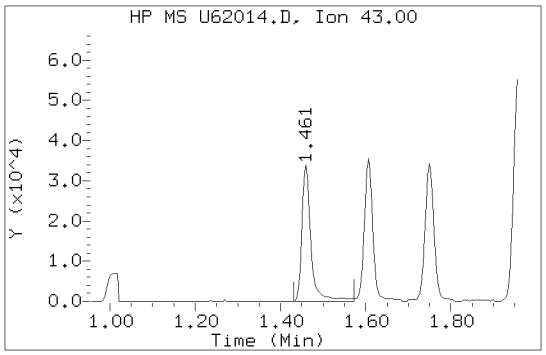

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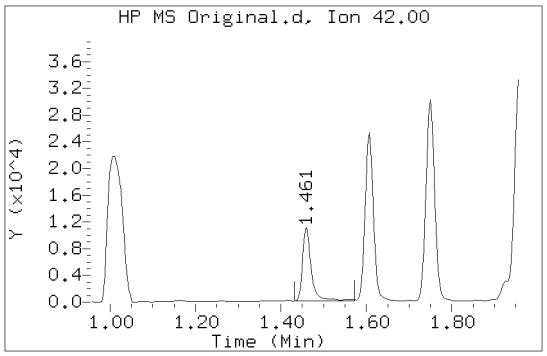

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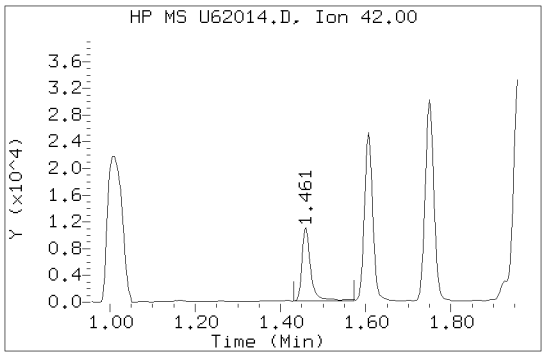

Isobutylene (115-11-7)

Reason Code:

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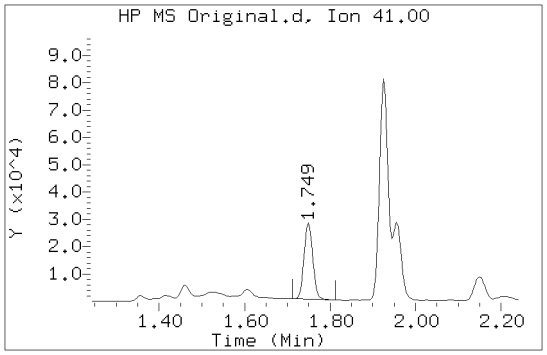

AFTER
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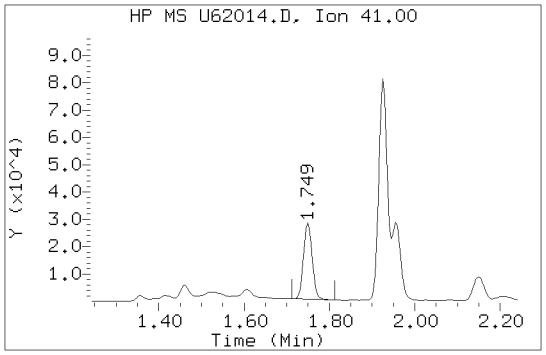

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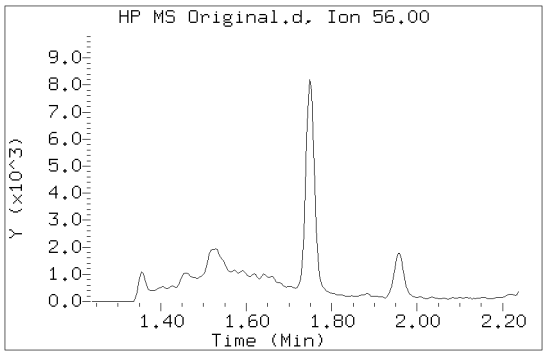

AFTER
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09-Jul-2024
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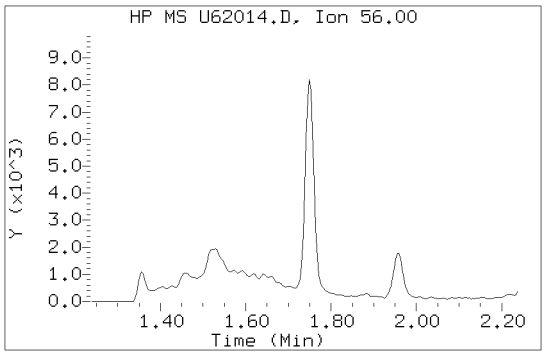

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Inj Date : 20-JUN-2024 15:40
InstruID : VOA9.i
LabSampID : VSTD050

Isobutylene (115-11-7)

Reason Code:

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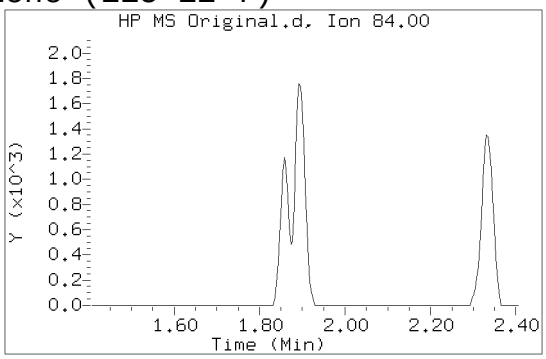

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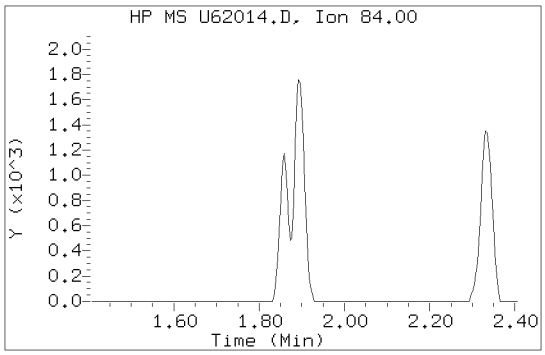

sec-Butyl Ether (6863-58-7)

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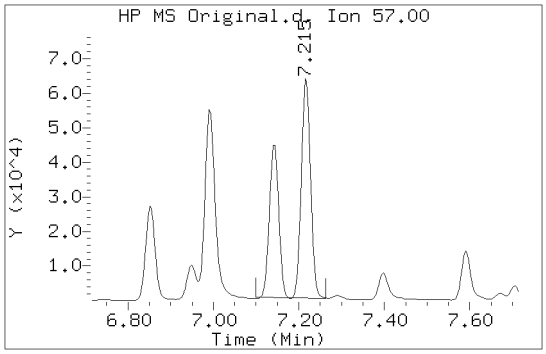

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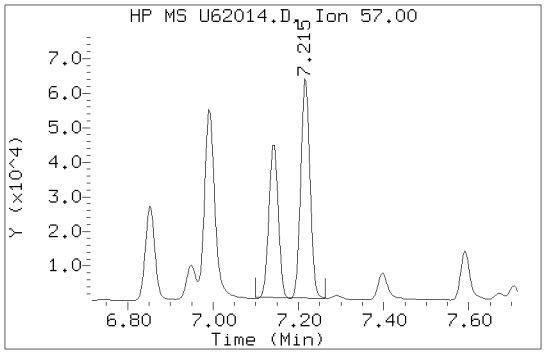

right solutions.
right partner.

RawData

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Workorder

HS24060747

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

07/22/2024

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\U240621.b\U62101.D Page 1
Report Date: 21-Jun-2024 16:40

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240621.b\U62101.D
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Inj Date : 21-JUN-2024 09:24
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\U240621.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	80368			0.00- 100.00	100.00
9.194	9.180	(0.000)	50	14064			15.00- 40.00	17.50
9.194	9.180	(0.000)	75	38880			30.00- 60.00	48.38
9.194	9.180	(0.000)	96	5311			5.00- 9.00	6.61
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	73632			50.00- 0.00	91.62
9.194	9.180	(0.000)	175	6565			5.00- 9.00	8.92
9.194	9.180	(0.000)	176	70640			95.00- 101.00	95.94
9.194	9.180	(0.000)	177	4805			5.00- 9.00	6.80

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62102.D Page 1
Report Date: 22-Jul-2024 14:51

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62102.D
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Inj Date : 21-JUN-2024 09:46
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\U240621.b\8260C.m
Meth Date : 22-Jul-2024 14:51 VOA9.i Quant Type: ISTD
Cal Date : 20-JUN-2024 14:15 Cal File: U62010.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: NAHSTW7014

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)	233200	50.0000	
2	Dichlorodifluoromethane	85	1.168	1.168	(0.243)	77807	50.0000	46.71
3	Chloromethane	50	1.299	1.299	(0.270)	154484	50.0000	41.97
4	Propionitrile	54	4.332	4.332	(0.900)	103809	500.000	481.74
5	Vinyl Chloride	62	1.378	1.378	(0.286)	83697	50.0000	40.50
6	Bromomethane	94	1.610	1.610	(0.334)	34966	50.0000	45.22
7	Chloroethane	64	1.696	1.696	(0.352)	52799	50.0000	40.33(M)
8	Trichlorofluoromethane	101	1.895	1.895	(0.394)	100917	50.0000	45.18
9	Acrolein	56	2.262	2.262	(0.470)	6400	100.000	88.57(M)
10	Acetone	43	2.405	2.405	(0.499)	49895	100.000	82.38(M)
11	1,1-Dichloroethene	96	2.330	2.330	(0.484)	55244	50.0000	40.60
12	Isobutyl Alcohol	43	5.284	5.284	(1.097)	192863	1000.00	837.75
13	Acetonitrile	39	2.671	2.671	(0.555)	73943	500.000	413.26
14	Allyl Chloride	41	2.671	2.671	(0.555)	170727	50.0000	40.46
15	Iodomethane	142	2.465	2.465	(0.512)	54323	100.000	101.56
16	Acrylonitrile	53	3.065	3.065	(0.636)	46071	100.000	80.88
17	Methylene Chloride	84	2.795	2.795	(0.580)	68323	50.0000	41.36
18	Methyl tert-butyl ether	73	3.076	3.076	(0.639)	175275	50.0000	43.75
19	Carbon Disulfide	76	2.521	2.521	(0.524)	315678	100.000	84.20
20	trans-1,2-Dichloroethene	96	3.057	3.057	(0.635)	61567	50.0000	43.16

21 Vinyl Acetate	43	4.335	4.335 (0.900)	68111	100.000	83.68
22 1,1-Dichloroethane	63	3.511	3.511 (0.729)	108795	50.0000	40.16(M)

	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)	93958	50.0000	40.57(M)
	24 2-Butanone	43	4.260	4.260	(0.885)	66398	100.000	82.16
	25 Methacrylonitrile	41	4.489	4.489	(0.932)	48228	50.0000	47.30(a)
	26 2,2-Dichloropropane	77	4.182	4.182	(0.868)	96899	50.0000	45.16
	27 cis-1,2-Dichloroethene	96	4.193	4.193	(0.871)	73175	50.0000	43.36
	28 Chloroform	83	4.572	4.572	(0.949)	124044	50.0000	44.90
	29 Bromochloromethane	128	4.467	4.467	(0.928)	37486	50.0000	40.15(M)
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	86355	50.0000	55.74
	31 1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	101481	50.0000	46.87
	32 1,1-Dichloropropene	75	4.920	4.920	(0.887)	91861	50.0000	46.05
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	96265	50.0000	45.28
	34 Carbon Tetrachloride	117	4.909	4.909	(0.885)	81115	50.0000	48.51
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	99333	50.0000	50.27
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	326985	50.0000	
	37 Benzene	78	5.138	5.138	(0.926)	282062	50.0000	41.91
	38 Trichloroethene	130	5.786	5.786	(1.043)	72537	50.0000	44.41
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	86267	50.0000	45.35
	40 Methyl Methacrylate	41	5.820	5.820	(1.209)	28240	50.0000	46.27
	41 2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	3644	100.000	83.47
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	74605	50.0000	41.85
	43 2-Nitropropane	43	6.506	6.506	(1.351)	18043	50.0000	48.93
	44 Dibromomethane	93	6.116	6.116	(1.102)	43772	50.0000	42.07
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	135465	100.000	82.38
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	102655	50.0000	46.19
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	298373	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	335182	50.0000	57.87
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	94060	50.0000	45.29
	50 Toluene	91	6.982	6.982	(0.853)	304634	50.0000	44.84
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	84151	50.0000	42.14
	52 2-Hexanone	43	7.214	7.214	(0.881)	102671	100.000	92.88
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	54411	50.0000	41.41
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	116163	50.0000	42.07
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	67936	50.0000	49.56
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	61615	50.0000	48.46
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	63653	50.0000	43.89
	58 1-Chlorohexane	55	8.197	8.197	(1.477)	52942	50.0000	41.93
	59 Chlorobenzene	112	8.212	8.212	(1.003)	191598	50.0000	46.33
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	66273	50.0000	45.40
	61 Ethylbenzene	106	8.309	8.309	(1.015)	96345	50.0000	45.82
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	243145	100.000	96.86
	63 o-Xylene	106	8.748	8.748	(1.069)	120914	50.0000	48.88
	64 Styrene	104	8.763	8.763	(1.071)	201382	50.0000	48.69
	66 Bromoform	173	8.920	8.920	(1.090)	41255	50.0000	44.56
	67 Isopropylbenzene	105	9.062	9.062	(1.107)	303138	50.0000	49.39
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	89570	50.0000	42.98
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	122285	50.0000	53.74
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	168763	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	86007	50.0000	40.61
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	16967	50.0000	40.69
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	342490	50.0000	46.93
	74 Bromobenzene	156	9.317	9.317	(0.916)	85426	50.0000	43.08
	75 1,3,5-Trimethylbenzene	105	9.565	9.565	(0.940)	245268	50.0000	44.30

76	2-Chlorotoluene	91	9.482	9.482 (0.932)	215378	50.0000	43.61
77	4-Chlorotoluene	91	9.576	9.576 (0.941)	250131	50.0000	44.62

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62102.D Page 3
Report Date: 22-Jul-2024 14:51

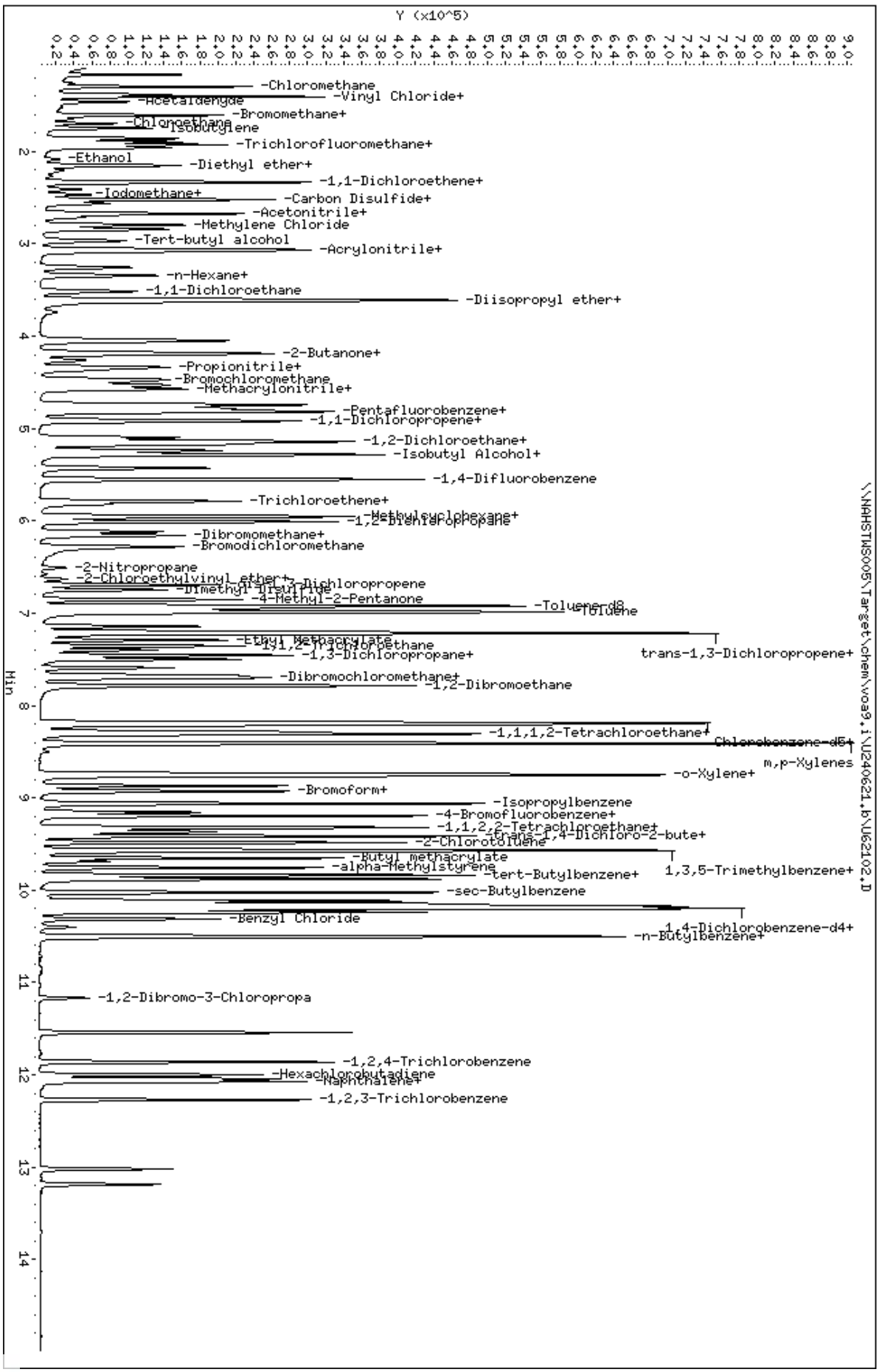
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.838	9.838	(0.967)	214762	50.0000	48.28
79	1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	232571	50.0000	43.30
81	sec-Butylbenzene	105	10.022	10.022	(0.985)	286345	50.0000	48.34
82	p-Isopropyltoluene	119	10.150	10.150	(0.998)	250113	50.0000	44.02
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	151461	50.0000	41.51
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	159523	50.0000	45.60
86	Benzyl Chloride	91	10.311	10.311	(1.260)	130910	50.0000	47.74
87	n-Butylbenzene	91	10.494	10.494	(1.032)	219058	50.0000	43.37
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	150250	50.0000	41.36
89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	11381	50.0000	43.96
90	1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	98757	50.0000	44.93
91	Hexachlorobutadiene	225	12.001	12.001	(1.180)	47882	50.0000	49.13
92	Naphthalene	128	12.069	12.069	(1.186)	203567	50.0000	40.10
93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	90692	50.0000	45.06
146	Methyl acetate	43	2.712	2.712	(0.563)	49071	50.0000	40.19(M)
138	Freon TF	101	2.334	2.334	(0.485)	56855	50.0000	45.36
141	Cyclohexane	56	4.781	4.781	(0.993)	98057	50.0000	43.48
142	Tetrahydrofuran	42	4.538	4.538	(0.942)	25821	100.000	93.49
147	Methylcyclohexane	55	5.947	5.947	(1.072)	175138	50.0000	50.44
135	1,4-Dioxane	88	6.168	6.168	(1.281)	16485	1000.00	936.36
132	n-Butanol	56	5.820	5.820	(1.209)	40275	1000.00	949.53
136	n-Hexane	57	3.342	3.342	(0.694)	64280	50.0000	42.98
139	Diethyl ether	59	2.142	2.142	(0.445)	47906	50.0000	42.22
148	Tert-butyl alcohol	59	2.963	2.963	(0.615)	110624	1000.00	826.65
149	Isopropyl alcohol	45	2.562	2.562	(0.532)	82654	1000.00	802.04(M)
156	Diisopropyl ether	45	3.619	3.619	(0.752)	210624	50.0000	37.44(M)
162	Butyl acrylate	55	8.733	8.733	(1.067)	130081	50.0000	47.36
164	Dicyclopentadiene	66	10.202	10.202	(1.003)	329839	50.0000	45.14
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	226803	50.0000	46.98
167	Ethanol	45	2.086	2.086	(0.433)	15927	1000.00	802.31
172	tert-Butyl formate	59	5.239	5.239	(1.088)	123943	100.000	106.40
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	416470	1000.00	923.54
140	1,3-Butadiene	54	1.404	1.404	(0.292)	82141	50.0000	41.02
182	Epichlorohydrin	57	6.630	6.630	(1.195)	11373	200.000	199.13
M 94	1,2-Dichloroethylene (total)	96				134742	100.000	(a)
145	alpha-Methylstyrene	118	9.756	9.756	(0.959)	86426	50.0000	44.64
130	Ethyl Acetate	43	4.530	4.530	(0.941)	26472	50.0000	48.09(M)
131	Methyl Acrylate	55	4.365	4.365	(0.907)	84051	50.0000	43.49
189	n-Butyl acetate	43	7.705	7.705	(0.941)	97429	50.0000	40.95
134	Cyclohexanone	55	9.152	9.152	(0.900)	70470	1000.00	811.78(M)
185	Isoprene	39	2.154	2.154	(0.447)	13637	50.0000	40.27(M)
188	Isopropyl acetate	43	5.284	5.284	(0.952)	193013	50.0000	44.14
150	Allyl alcohol	57	3.342	3.342	(0.694)	64280	1000.00	859.77
194	Acetaldehyde	44	1.460	1.460	(0.303)	67092	200.000	172.10(M)
200	Dimethyl Disulfide	94	6.746	6.746	(0.824)	57801	50.0000	51.70
202	Isobutylene	41	1.745	1.745	(0.362)	31512	50.0000	40.77(M)
133	Ethyl Acrylate	55	5.947	5.947	(1.235)	175138	50.0000	47.74
163	Butyl methacrylate	41	9.651	9.651	(0.949)	84031	50.0000	49.11
159	Propylene oxide	43	2.199	2.199	(0.457)	9566	100.000	89.79
178	Ethylene oxide	44	1.603	1.603	(0.333)	124697	100.000	72.02(M)
203	2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	83233	50.0000	45.73
204	Tetrahydrothiophene	60	7.672	7.672	(0.937)	80362	50.0000	47.39(A)

205 sec-Butyl Ether	57	7.218	7.218 (0.882)	151838	50.0000	45.54(AM)
187 n-Amyl acetate	43	8.931	8.931 (1.091)	108714	50.0000	41.18

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
206 2-Chloropropene	41	1.925	1.925	(0.400)	95894	50.0000	40.05(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.



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Operator: TS
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InstruID : VOA9.i
LabSampID : VSTD050

Chloroethane (75-00-3)

Reason Code:

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22-Jul-2024
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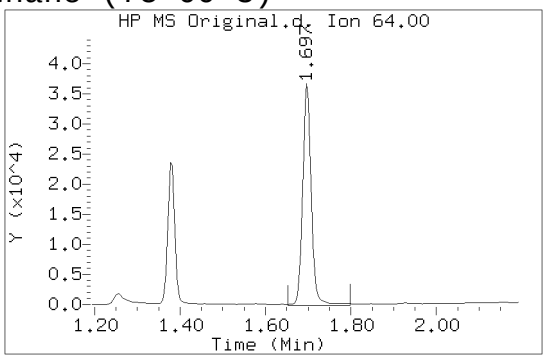

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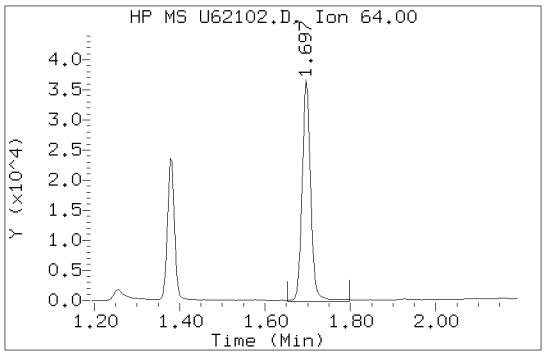

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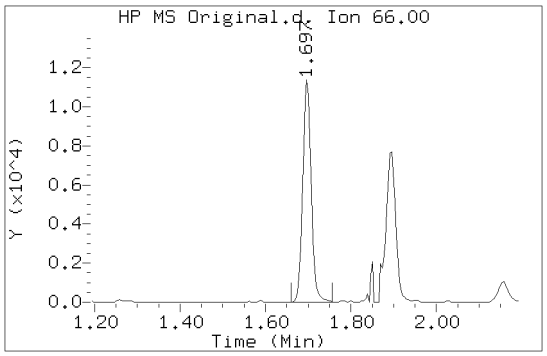

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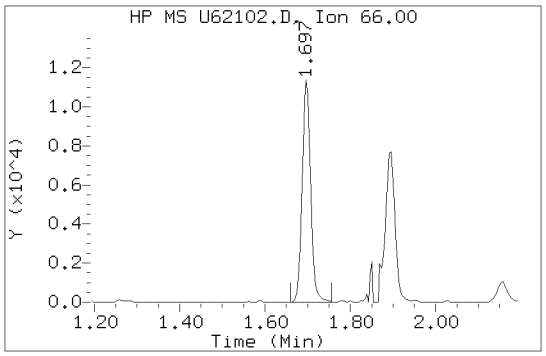

Acetone (67-64-1)

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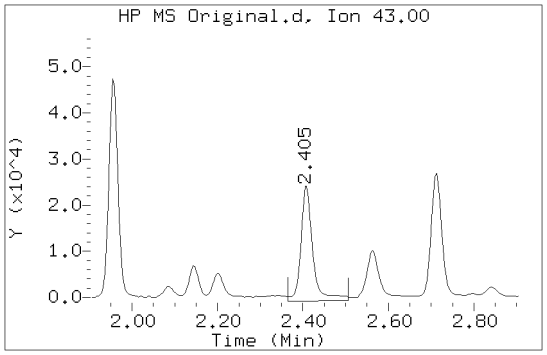

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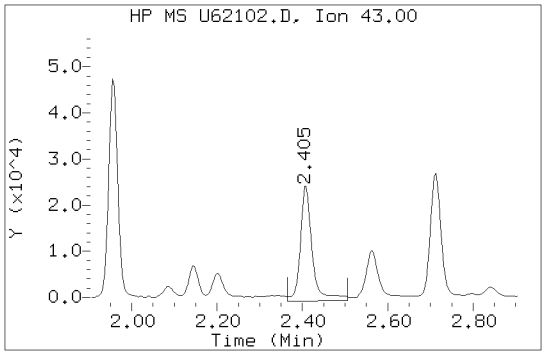

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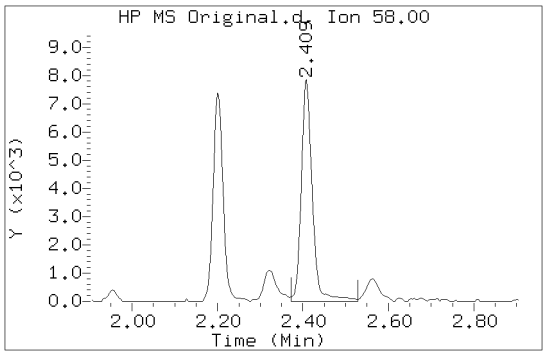

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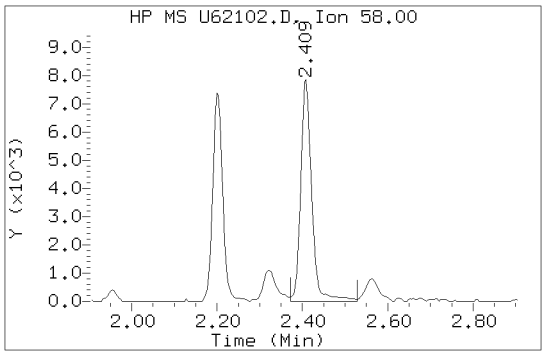

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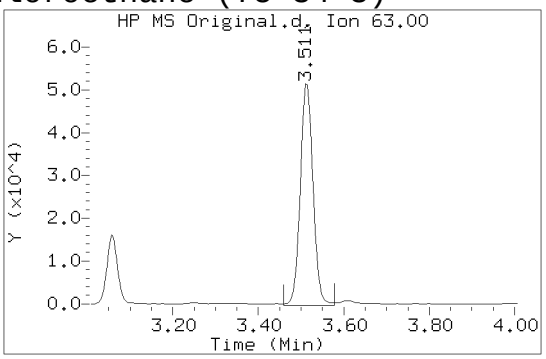

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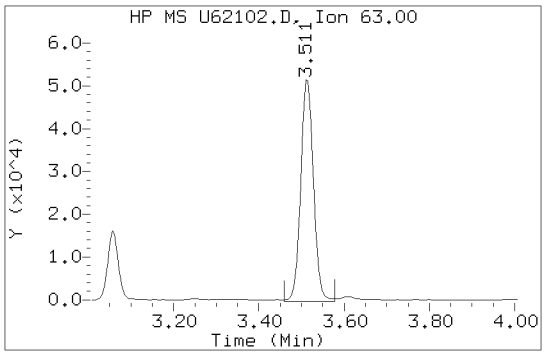

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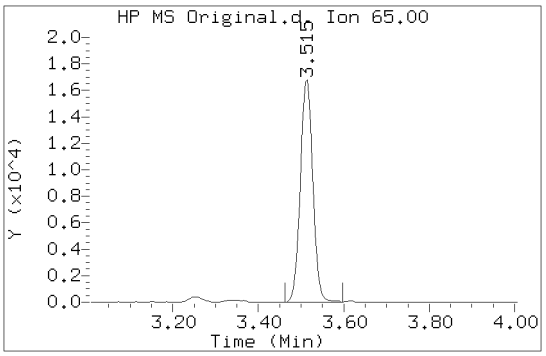

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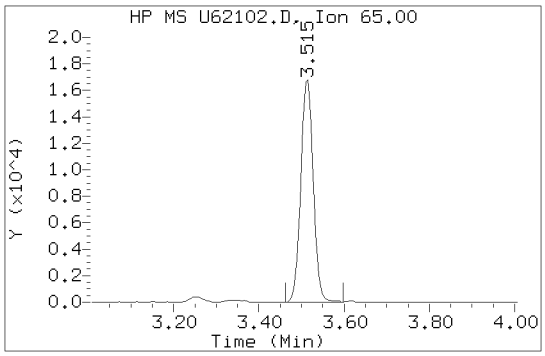

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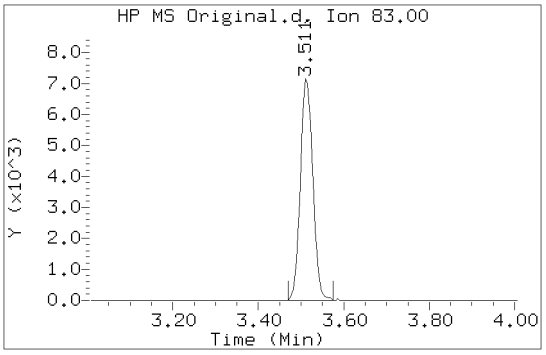

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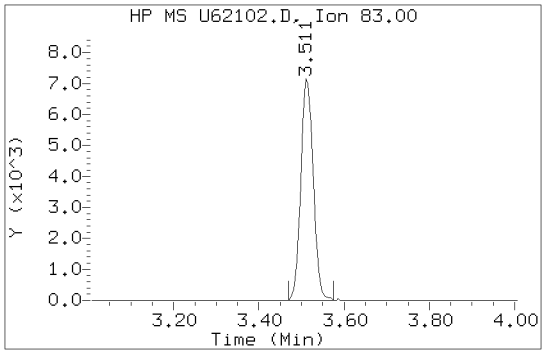
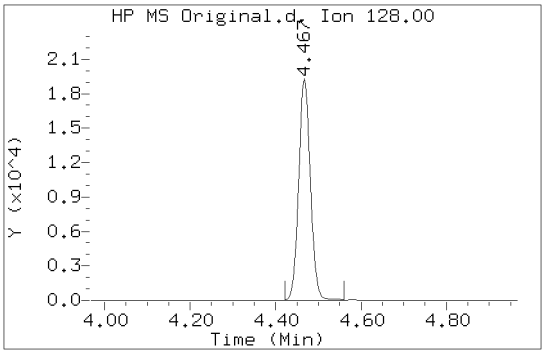
83
AREA
14690
HEIGHT
7152
22-Jul-2024
14:51
r
patel



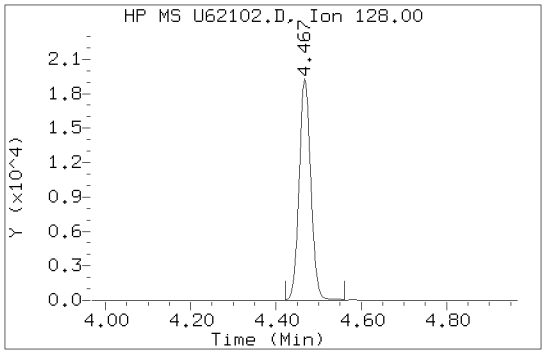
Bromochloromethane (74-97-5)

Reason Code:

BEFORE
MASS
128
AREA
37486
HEIGHT
19303
22-Jul-2024
14:51
r
patel



AFTER
MASS
128
AREA
37486
HEIGHT
19303
22-Jul-2024
14:51
r
patel

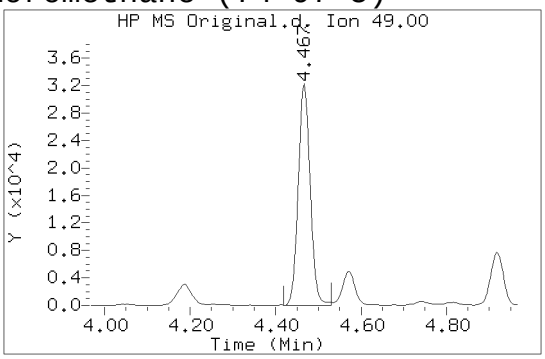


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62102.D
Inj Date : 21-JUN-2024 09:46
InstruID : VOA9.i
LabSampID : VSTD050

Bromochloromethane (74-97-5)

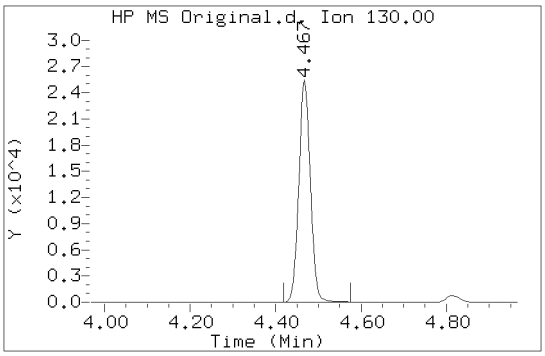
BEFORE

MASS
49
AREA
63845
HEIGHT
32280
22-Jul-2024
14:51
r
patel



BEFORE

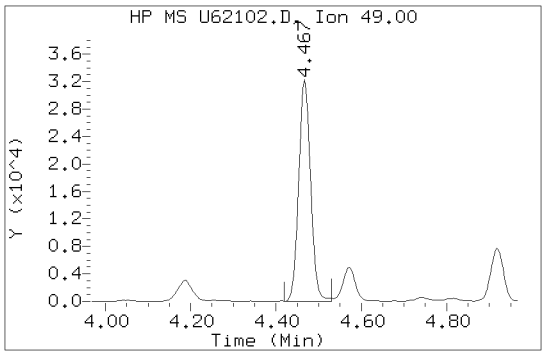
MASS
130
AREA
48670
HEIGHT
25464
22-Jul-2024
14:51
r
patel



Reason Code:

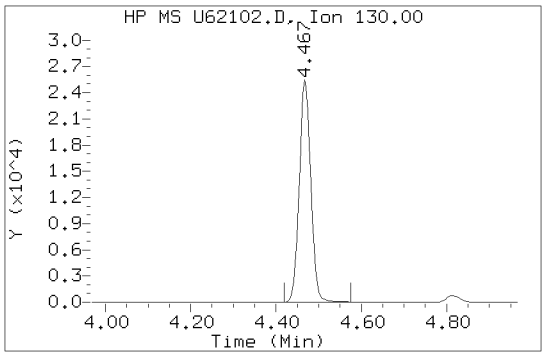
AFTER

MASS
49
AREA
63845
HEIGHT
32280
22-Jul-2024
14:51
r
patel



AFTER

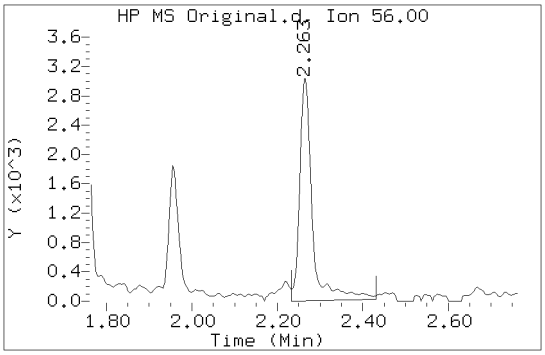
MASS
130
AREA
48670
HEIGHT
25464
22-Jul-2024
14:51
r
patel



Acrolein (107-02-8)

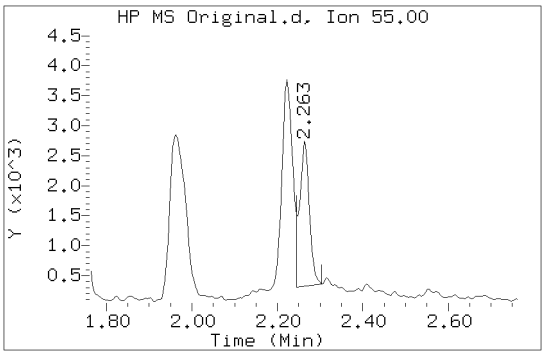
BEFORE

MASS
56
AREA
6400
HEIGHT
3027
22-Jul-2024
14:51
r
patel



BEFORE

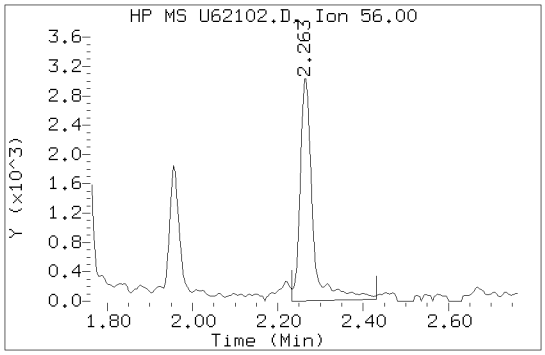
MASS
55
AREA
4042
HEIGHT
2419
22-Jul-2024
14:51
r
patel



Reason Code:

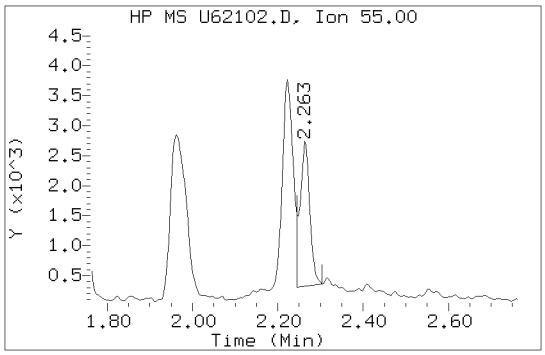
AFTER

MASS
56
AREA
6400
HEIGHT
3027
22-Jul-2024
14:51
r
patel



AFTER

MASS
55
AREA
4042
HEIGHT
2419
22-Jul-2024
14:51
r
patel



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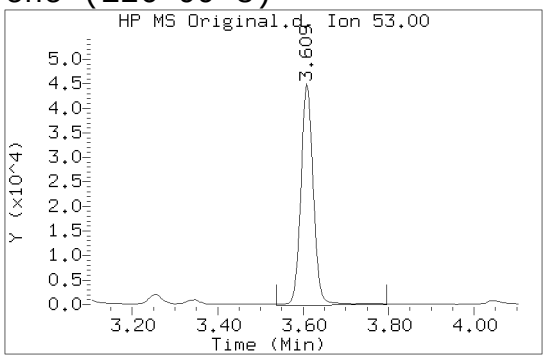
Inj Date : 21-JUN-2024 09:46
InstruID : VOA9.i
LabSampID : VSTD050

Chloroprene (126-99-8)

Reason Code:

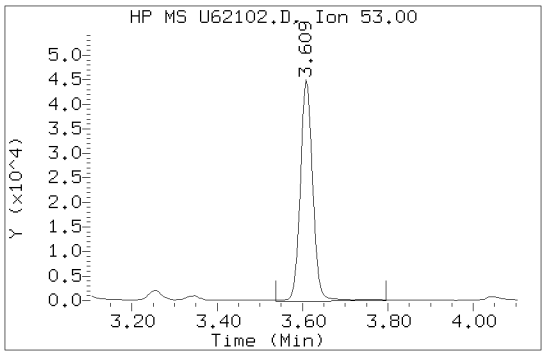
BEFORE

MASS
53
AREA
93958
HEIGHT
45138
22-Jul-2024
14:51
r
patel



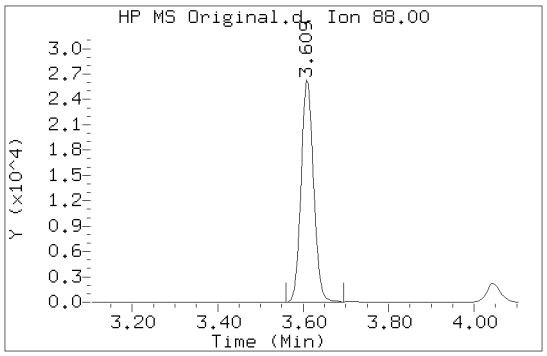
AFTER

MASS
53
AREA
93958
HEIGHT
45138
22-Jul-2024
14:51
r
patel



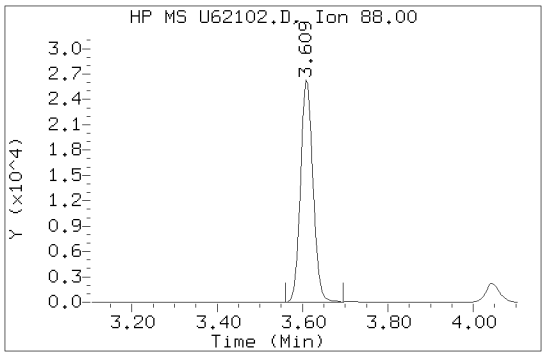
BEFORE

MASS
88
AREA
54190
HEIGHT
26304
22-Jul-2024
14:51
r
patel



AFTER

MASS
88
AREA
54190
HEIGHT
26304
22-Jul-2024
14:51
r
patel

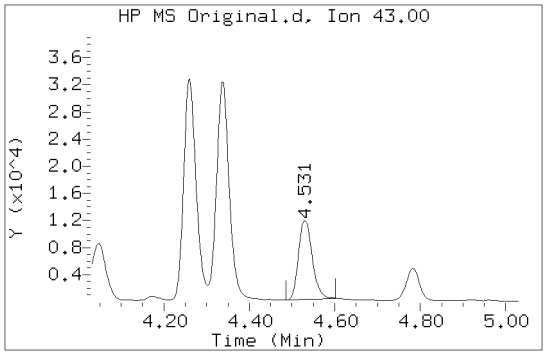


Ethyl Acetate (141-78-6)

Reason Code:

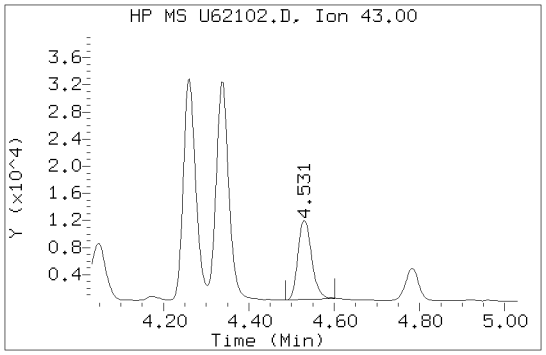
BEFORE

MASS
43
AREA
26472
HEIGHT
11604
22-Jul-2024
14:51
r
patel



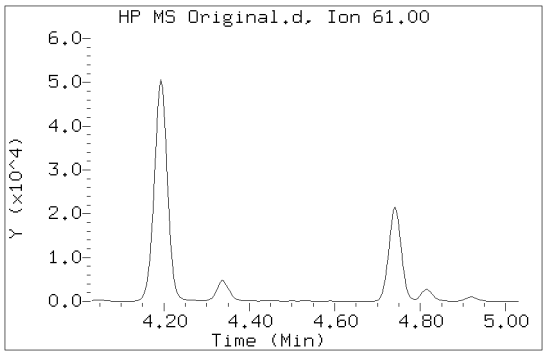
AFTER

MASS
43
AREA
26472
HEIGHT
11604
22-Jul-2024
14:51
r
patel



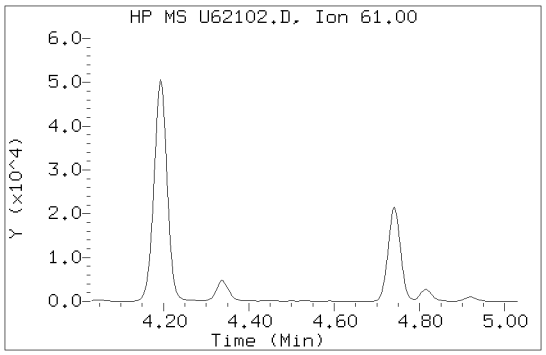
BEFORE

MASS
61
AREA
0
HEIGHT
0
22-Jul-2024
14:51
r
patel



AFTER

MASS
61
AREA
0
HEIGHT
0
22-Jul-2024
14:51
r
patel



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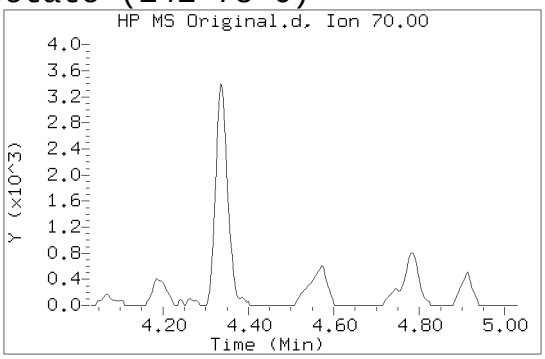
Inj Date : 21-JUN-2024 09:46
InstruID : VOA9.i
LabSampID : VSTD050

Ethyl Acetate (141-78-6)

Reason Code:

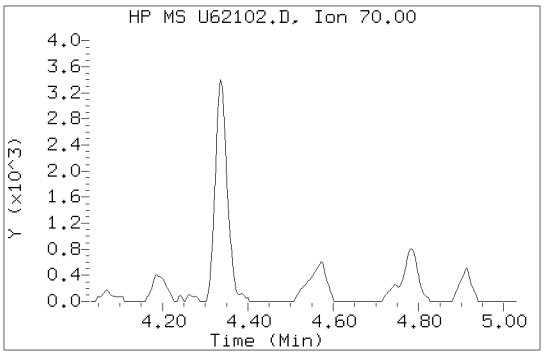
BEFORE

MASS
70
AREA
0
HEIGHT
0
22-Jul-2024
14:51
r
patel



AFTER

MASS
70
AREA
0
HEIGHT
0
22-Jul-2024
14:51
r
patel

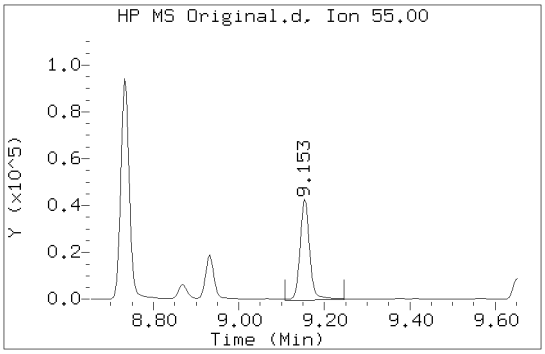


Cyclohexanone (108-94-1)

Reason Code:

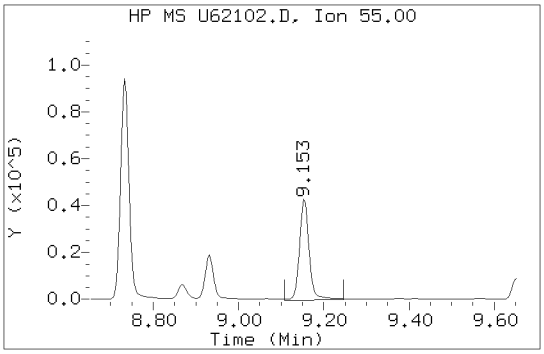
BEFORE

MASS
55
AREA
70470
HEIGHT
43127
22-Jul-2024
14:51
r
patel



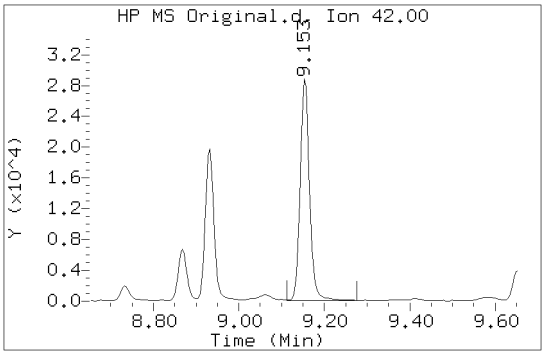
AFTER

MASS
55
AREA
70470
HEIGHT
43127
22-Jul-2024
14:51
r
patel



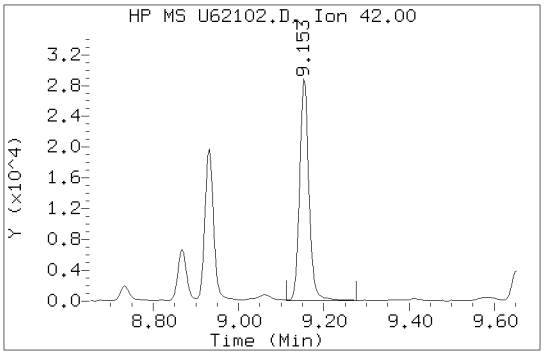
BEFORE

MASS
42
AREA
44667
HEIGHT
28782
22-Jul-2024
14:51
r
patel



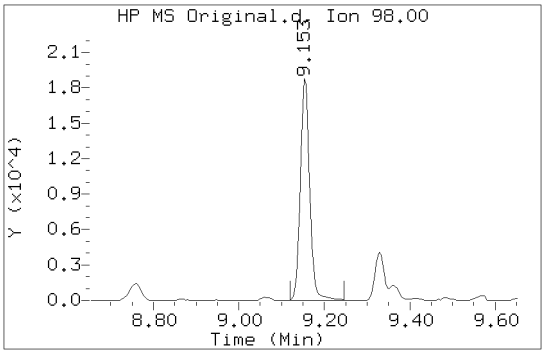
AFTER

MASS
42
AREA
44667
HEIGHT
28782
22-Jul-2024
14:51
r
patel



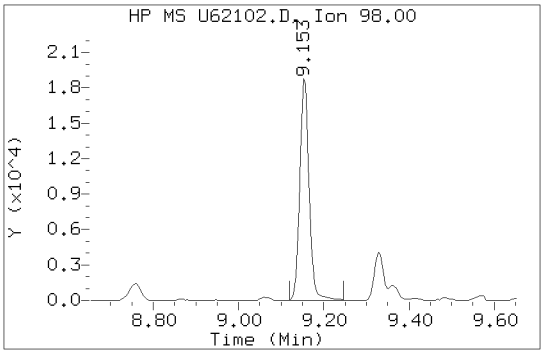
BEFORE

MASS
98
AREA
29141
HEIGHT
18776
22-Jul-2024
14:51
r
patel



AFTER

MASS
98
AREA
29141
HEIGHT
18776
22-Jul-2024
14:51
r
patel

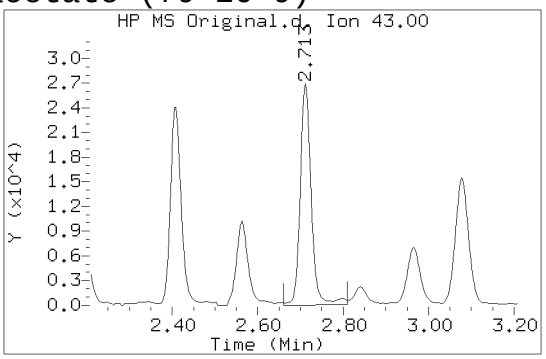


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62102.D
Inj Date : 21-JUN-2024 09:46
InstruID : VOA9.i
LabSampID : VSTD050

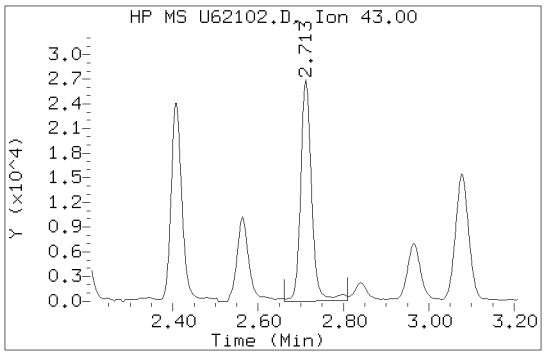
Methyl acetate (79-20-9)

Reason Code:

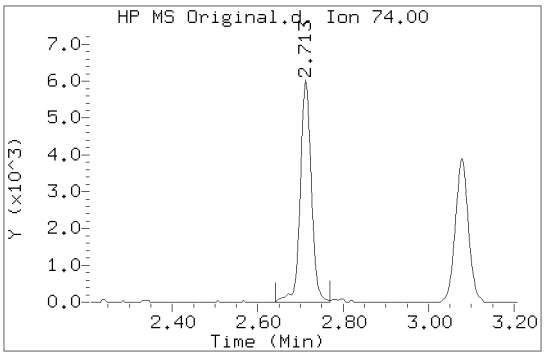
BEFORE
MASS
43
AREA
49071
HEIGHT
26922
22-Jul-2024
14:51
r
patel



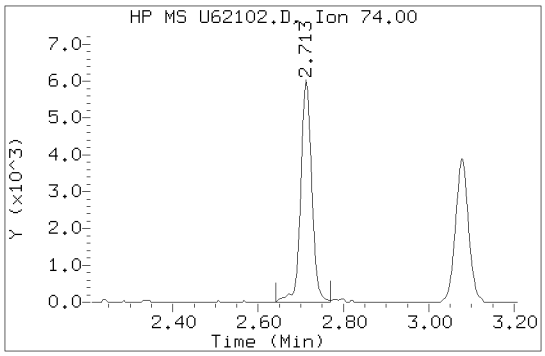
AFTER
MASS
43
AREA
49071
HEIGHT
26922
22-Jul-2024
14:51
r
patel



BEFORE
MASS
74
AREA
11029
HEIGHT
6035
22-Jul-2024
14:51
r
patel



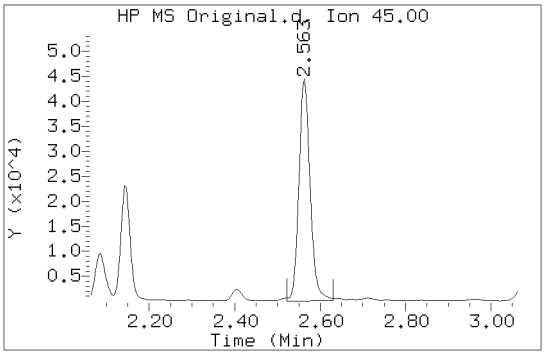
AFTER
MASS
74
AREA
11029
HEIGHT
6035
22-Jul-2024
14:51
r
patel



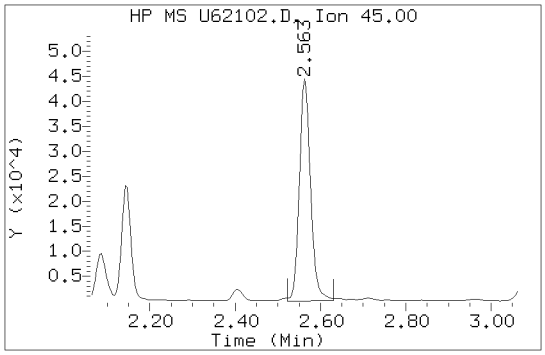
Isopropyl alcohol (67-63-0)

Reason Code:

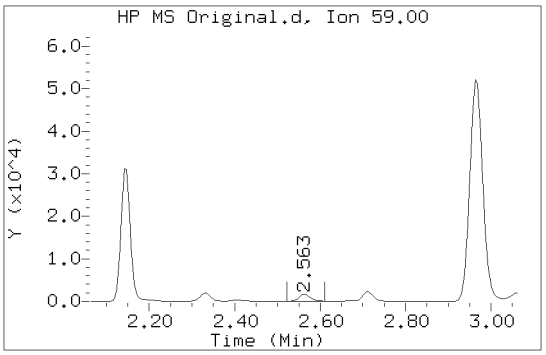
BEFORE
MASS
45
AREA
82654
HEIGHT
44417
22-Jul-2024
14:51
r
patel



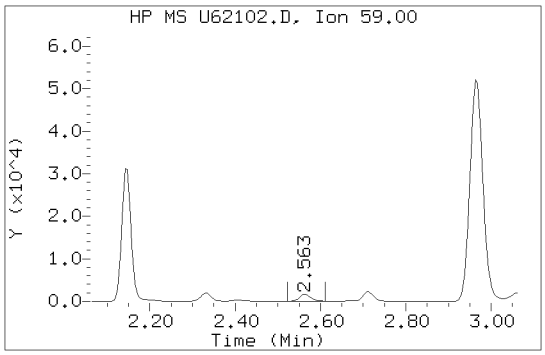
AFTER
MASS
45
AREA
82654
HEIGHT
44417
22-Jul-2024
14:51
r
patel



BEFORE
MASS
59
AREA
3219
HEIGHT
1715
22-Jul-2024
14:51
r
patel



AFTER
MASS
59
AREA
3219
HEIGHT
1715
22-Jul-2024
14:51
r
patel

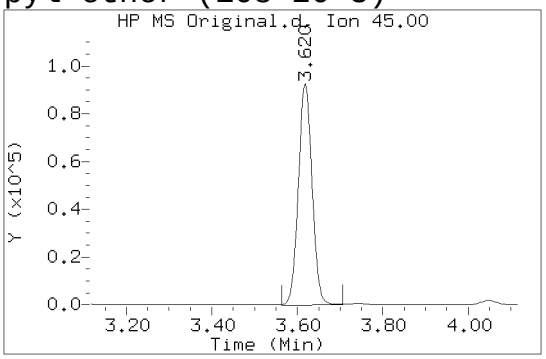


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62102.D
Inj Date : 21-JUN-2024 09:46
InstruID : VOA9.i
LabSampID : VSTD050

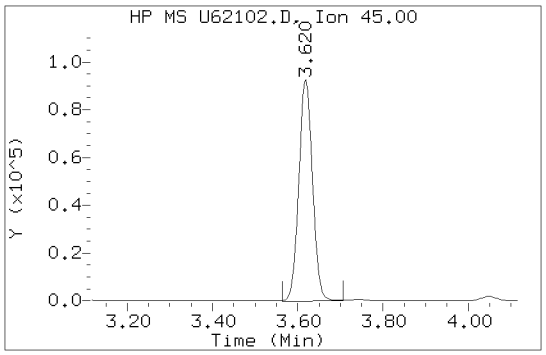
Diisopropyl ether (108-20-3)

Reason Code:

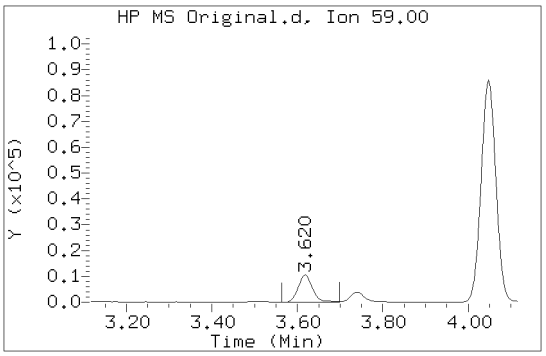
BEFORE
MASS
45
AREA
210624
HEIGHT
92715
22-Jul-2024
14:51
r
patel



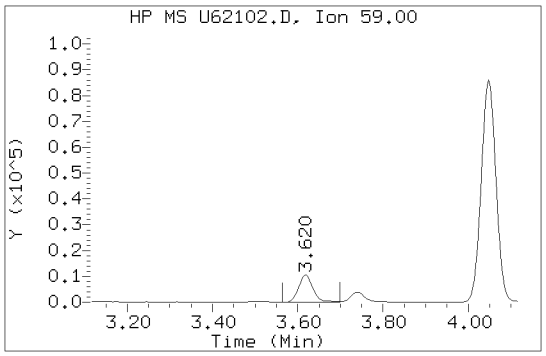
AFTER
MASS
45
AREA
210624
HEIGHT
92715
22-Jul-2024
14:51
r
patel



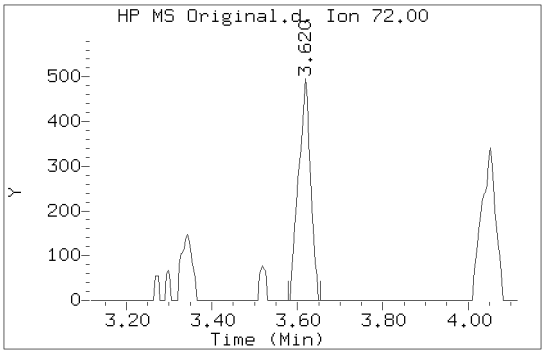
BEFORE
MASS
59
AREA
24681
HEIGHT
10586
22-Jul-2024
14:51
r
patel



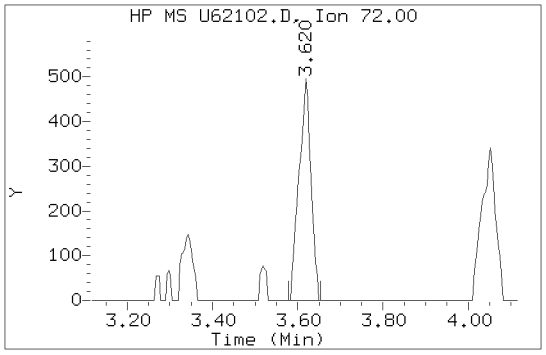
AFTER
MASS
59
AREA
24681
HEIGHT
10586
22-Jul-2024
14:51
r
patel



BEFORE
MASS
72
AREA
980
HEIGHT
496
22-Jul-2024
14:51
r
patel



AFTER
MASS
72
AREA
980
HEIGHT
496
22-Jul-2024
14:51
r
patel



Ethylene oxide (75-21-8)

Reason Code:

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22-Jul-2024
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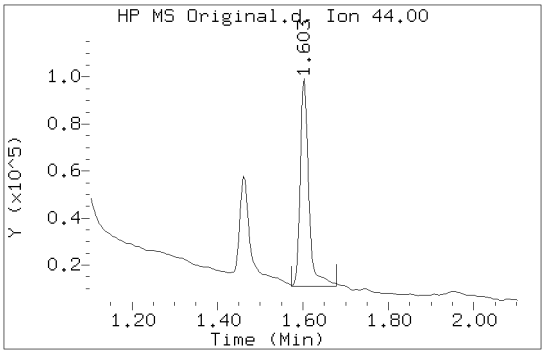

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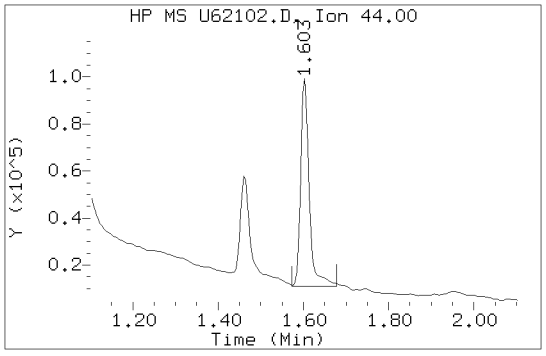

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Inj Date : 21-JUN-2024 09:46
InstruID : VOA9.i
LabSampID : VSTD050

Isoprene (78-79-5)

Reason Code:

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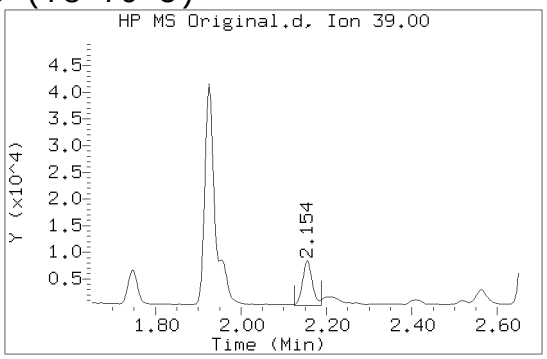

AFTER
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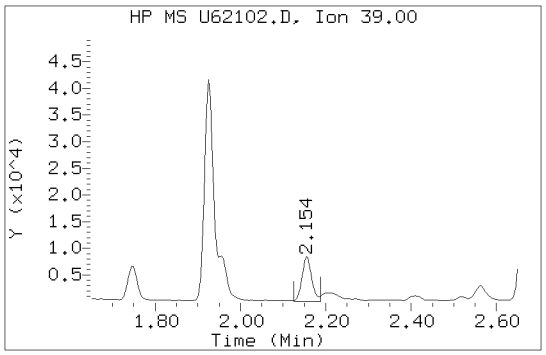

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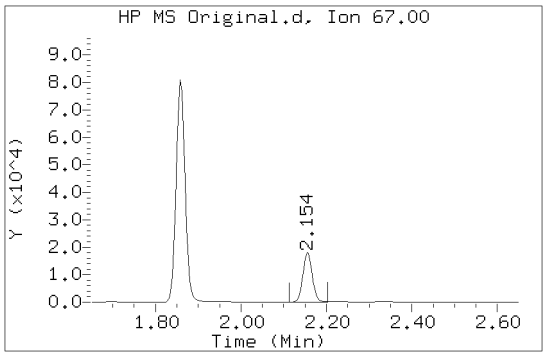

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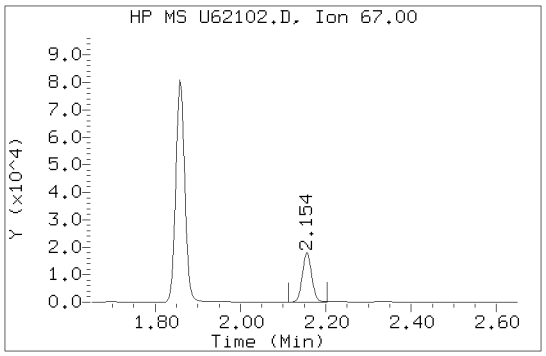

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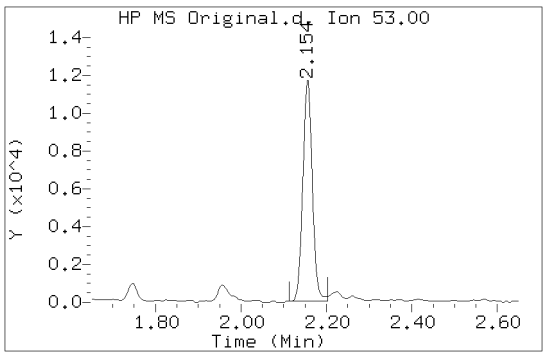

AFTER
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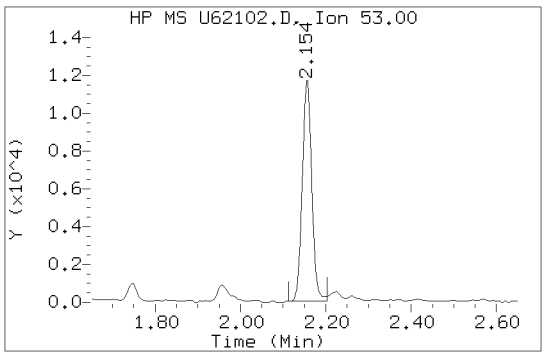

Acetaldehyde (75-07-0)

Reason Code:

BEFORE
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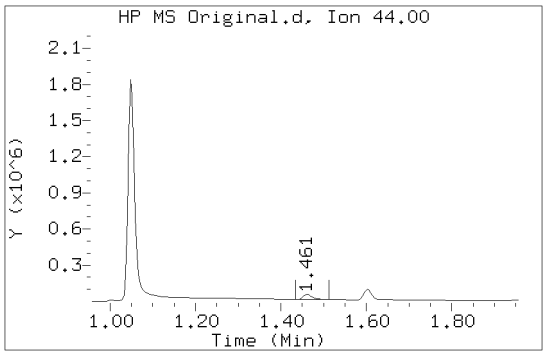

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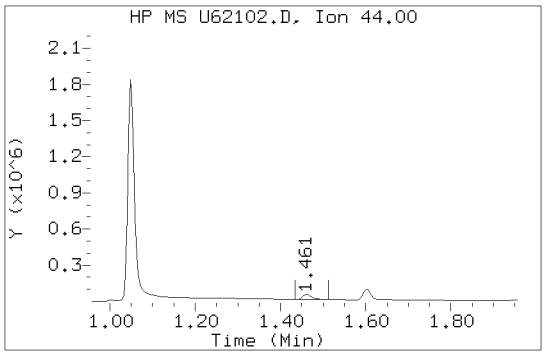

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Inj Date : 21-JUN-2024 09:46
InstruID : VOA9.i
LabSampID : VSTD050

Acetaldehyde (75-07-0)

Reason Code:

BEFORE

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36770
HEIGHT
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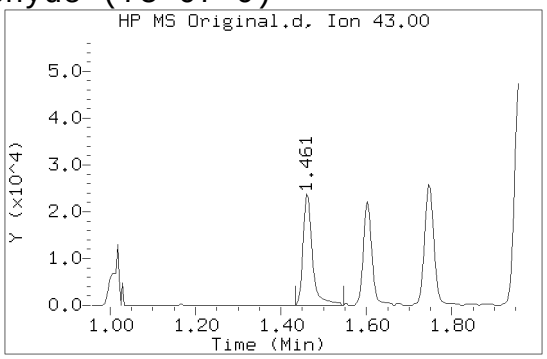
22-Jul-2024
14:51
r
patel



AFTER

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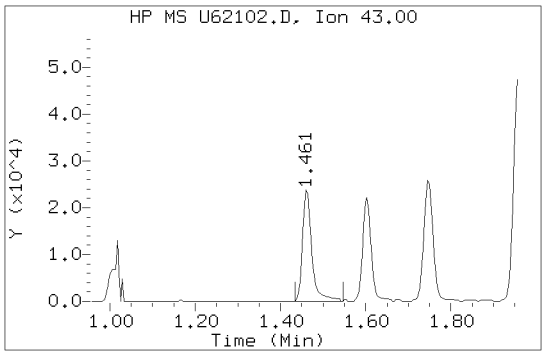

BEFORE

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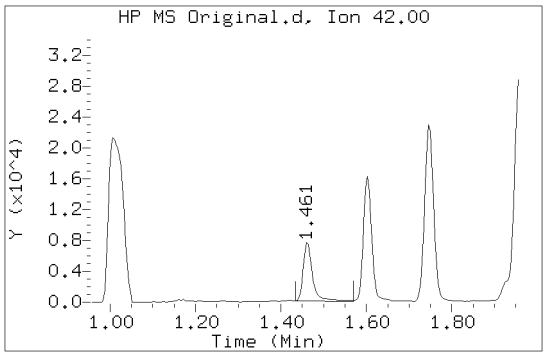

AFTER

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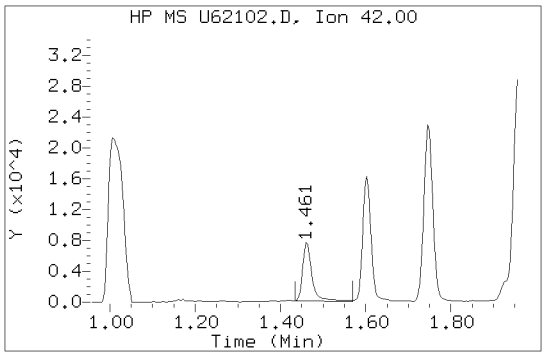

Isobutylene (115-11-7)

Reason Code:

BEFORE

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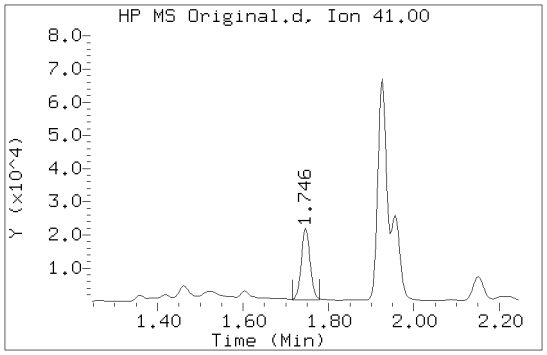

AFTER

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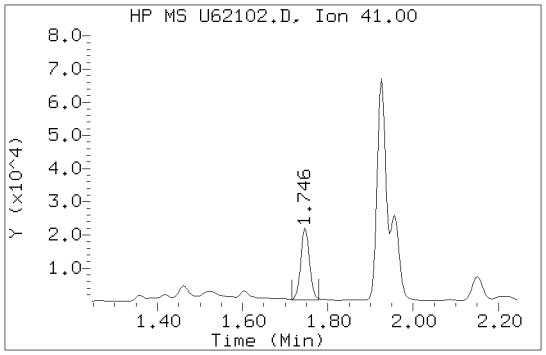

BEFORE

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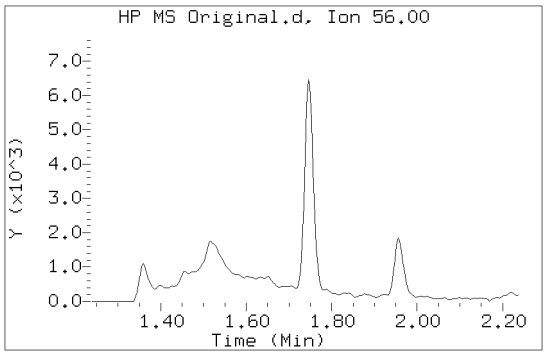

AFTER

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22-Jul-2024
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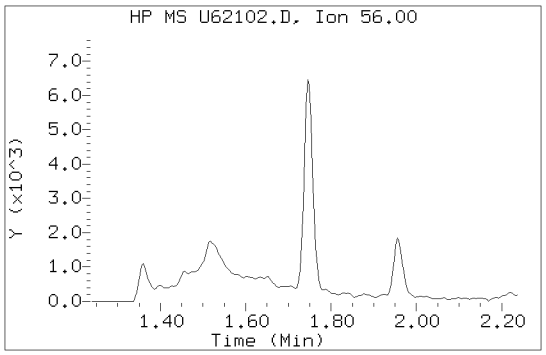

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InstruID : VOA9.i
LabSampID : VSTD050

Isobutylene (115-11-7)

Reason Code:

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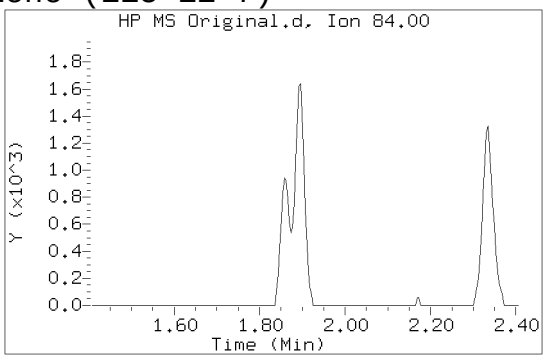

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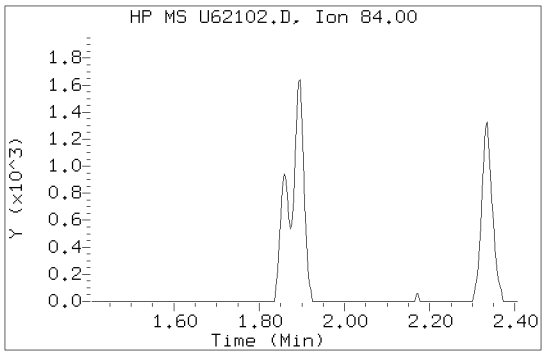

sec-Butyl Ether (6863-58-7)

Reason Code:

BEFORE

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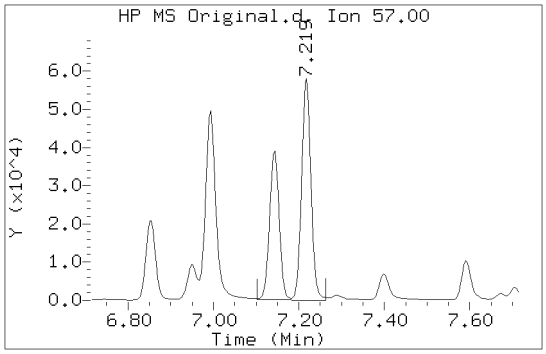

AFTER

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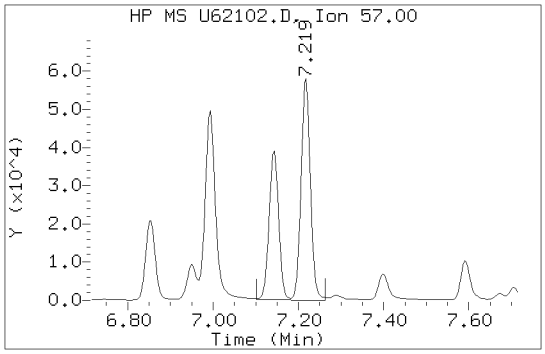

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62103.D Page 1
Report Date: 22-Jul-2024 14:24

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62103.D
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Inj Date : 21-JUN-2024 10:28
Operator : TS Inst ID: VOA9.i
Smp Info : VLCSW-240621;VLCSW-240621;3;;LCS
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240621.b\8260C.m
Meth Date : 22-Jul-2024 14:24 VOA9.i Quant Type: ISTD
Cal Date : 20-JUN-2024 14:15 Cal File: U62010.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: NAHSTW7014

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)	240309	50.0000	
2 Dichlorodifluoromethane	85	1.156	1.168	(0.240)	33265	19.3827	19.38
3 Chloromethane	50	1.288	1.299	(0.268)	70418	17.2855	17.28
4 Propionitrile	54	4.328	4.332	(0.900)	41554	184.835	184.83(a)
5 Vinyl Chloride	62	1.370	1.378	(0.285)	35316	16.6612	16.66
6 Bromomethane	94	1.599	1.610	(0.332)	15779	18.7533	18.75
7 Chloroethane	64	1.685	1.696	(0.350)	21085	15.1624	15.16
8 Trichlorofluoromethane	101	1.884	1.895	(0.392)	41190	17.8958	17.89
9 Acrolein	56	2.255	2.262	(0.469)	2385	28.3057	28.30
10 Acetone	43	2.397	2.405	(0.498)	20740	28.5723	28.57
11 1,1-Dichloroethene	96	2.318	2.330	(0.482)	23298	16.6189	16.61
12 Isobutyl Alcohol	43	5.280	5.284	(1.097)	78530	331.026	331.02(a)
13 Acetonitrile	39	2.660	2.671	(0.553)	27147	140.512	140.51(a)
14 Allyl Chloride	41	2.663	2.671	(0.554)	61720	13.8030	13.80(a)
15 Iodomethane	142	2.457	2.465	(0.511)	23024	44.1295	44.12
16 Acrylonitrile	53	3.057	3.065	(0.635)	17236	29.0395	29.03
17 Methylene Chloride	84	2.783	2.795	(0.579)	29839	16.3211	16.32
18 Methyl tert-butyl ether	73	3.068	3.076	(0.638)	65786	16.2037	16.20
19 Carbon Disulfide	76	2.510	2.521	(0.522)	129610	33.5486	33.54
20 trans-1,2-Dichloroethene	96	3.046	3.057	(0.633)	25863	17.2295	17.22

21 Vinyl Acetate	43	4.332	4.335 (0.900)	29806	35.3552	35.35
22 1,1-Dichloroethane	63	3.503	3.511 (0.728)	45784	15.9309	15.93

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62103.D Page 2
Report Date: 22-Jul-2024 14:24

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	23 Chloroprene	53	3.597	3.608	(0.748)	37422	15.5262	15.52
	24 2-Butanone	43	4.257	4.260	(0.885)	28921	34.8154	34.81
	25 Methacrylonitrile	41	4.485	4.489	(0.932)	16231	15.9615	15.96(a)
	26 2,2-Dichloropropane	77	4.170	4.182	(0.867)	40841	18.8059	18.80
	27 cis-1,2-Dichloroethene	96	4.185	4.193	(0.870)	32267	18.3403	18.34
	28 Chloroform	83	4.564	4.572	(0.949)	55103	18.8554	18.85
	29 Bromochloromethane	128	4.463	4.467	(0.928)	16723	17.3826	17.38
$	30 Dibromofluoromethane	113	4.740	4.748	(0.985)	85812	53.7586	53.75
	31 1,1,1-Trichloroethane	97	4.736	4.740	(0.984)	43406	19.4550	19.45
	32 1,1-Dichloropropene	75	4.916	4.920	(0.886)	38525	18.6997	18.69
	33 1,2-Dichloroethane	62	5.171	5.175	(0.932)	42505	18.7050	18.70
	34 Carbon Tetrachloride	117	4.901	4.909	(0.884)	33727	19.5320	19.53
$	35 1,2-Dichloroethane-d4	65	5.093	5.096	(1.058)	101804	50.0036	50.00
*	36 1,4-Difluorobenzene	114	5.546	5.550	(1.000)	337727	50.0000	
	37 Benzene	78	5.134	5.138	(0.926)	123243	17.7312	17.73
	38 Trichloroethene	130	5.782	5.786	(1.043)	32091	19.0252	19.02
	39 Bromodichloromethane	83	6.273	6.277	(1.131)	35623	18.1335	18.13
	40 Methyl Methacrylate	41	5.820	5.820	(1.210)	11378	18.0933	18.09(a)
	41 2-Chloroethylvinyl ether	63	6.577	6.573	(1.186)	1698	43.9970	43.99(M)
	42 1,2-Dichloropropane	63	6.003	6.007	(1.082)	32613	17.7146	17.71
	43 2-Nitropropane	43	6.502	6.506	(1.351)	6298	16.5759	16.57
	44 Dibromomethane	93	6.116	6.116	(1.103)	19466	18.1146	18.11
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	58228	34.8247	34.82
	46 cis-1,3-Dichloropropene	75	6.689	6.690	(1.206)	42118	18.3504	18.35
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	303393	50.0000	
$	48 Toluene-d8	98	6.918	6.922	(0.845)	326399	55.4271	55.42(M)
	49 Ethyl Methacrylate	69	7.289	7.289	(1.314)	36887	17.1980	17.19(a)
	50 Toluene	91	6.978	6.982	(0.853)	131658	19.0591	19.05
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.297)	34255	17.9496	17.94
	52 2-Hexanone	43	7.214	7.214	(0.881)	41972	36.8196	36.81
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	24698	18.4901	18.49
	54 1,3-Dichloropropane	76	7.495	7.499	(0.916)	51274	18.2646	18.26
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	27159	19.4880	19.48
	56 Tetrachloroethene	164	7.454	7.458	(0.911)	27018	20.8981	20.89
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	27126	18.3973	18.39
	58 1-Chlorohexane	55	8.196	8.197	(1.478)	23562	17.6513	17.65
	59 Chlorobenzene	112	8.208	8.212	(1.003)	85679	19.9386	19.93
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	27809	18.7384	18.73
	61 Ethylbenzene	106	8.305	8.309	(1.015)	41432	19.3805	19.38
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	103258	40.4558	40.45
	63 o-Xylene	106	8.747	8.748	(1.069)	50924	20.2464	20.24
	64 Styrene	104	8.762	8.763	(1.071)	85462	20.3231	20.32
	66 Bromoform	173	8.916	8.920	(1.089)	16499	18.4528	18.45
	67 Isopropylbenzene	105	9.062	9.062	(1.107)	130426	20.9008	20.90
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	40235	19.2706	19.27
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	125868	54.3996	54.39
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	167540	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	37845	18.4617	18.46
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	6649	15.6834	15.68(a)
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	143077	19.7488	19.74
	74 Bromobenzene	156	9.317	9.317	(0.916)	38126	19.3690	19.36
	75 1,3,5-Trimethylbenzene	105	9.565	9.565	(0.940)	97724	18.7923	18.79

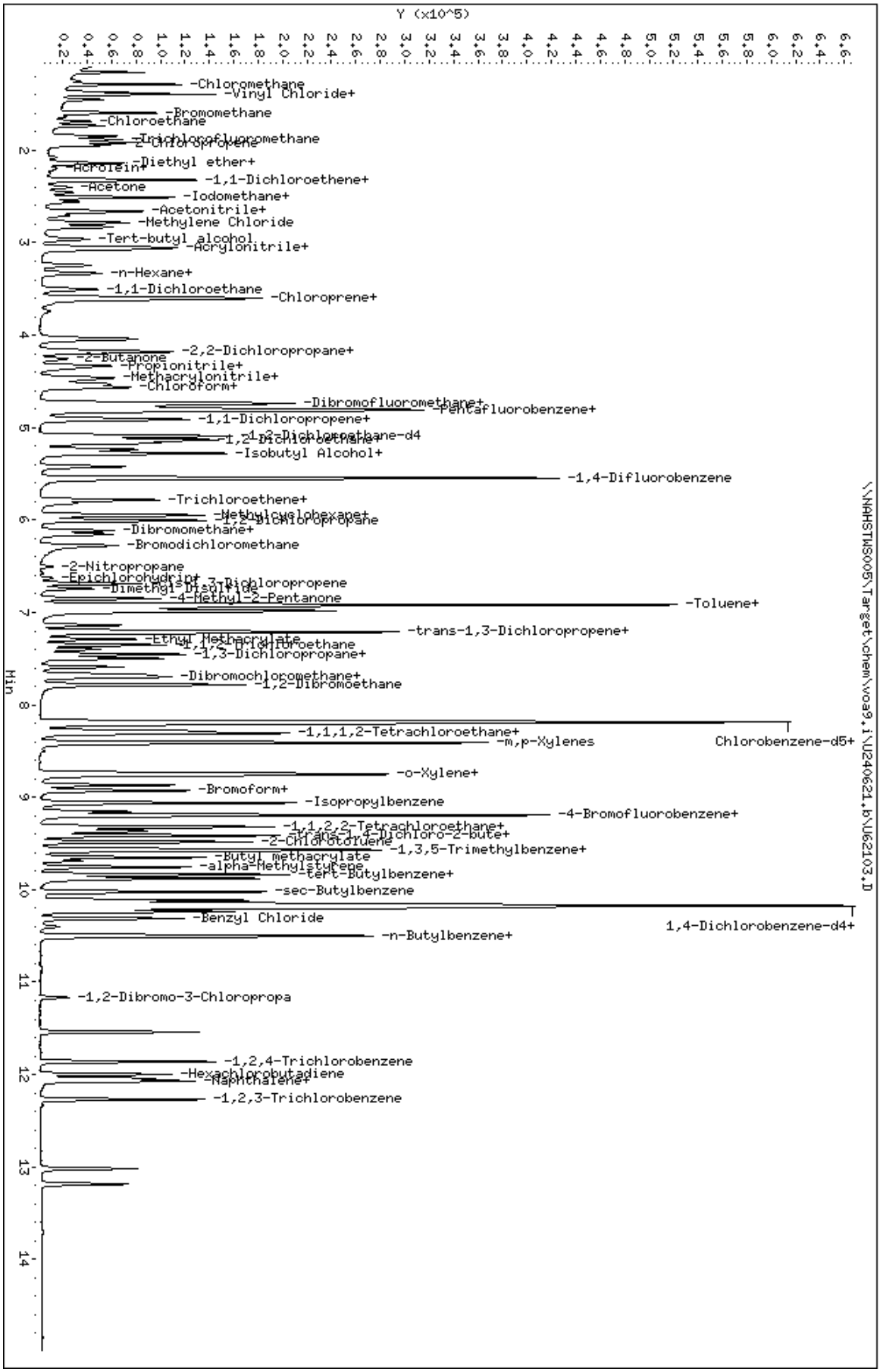
76	2-Chlorotoluene	91	9.482	9.482 (0.932)	92156	18.7964	18.79
77	4-Chlorotoluene	91	9.576	9.576 (0.941)	107677	19.3513	19.35

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
78	tert-Butylbenzene	119	9.838	9.838	(0.967)	91694	20.7661	20.76
79	1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	99018	18.5727	18.57
81	sec-Butylbenzene	105	10.022	10.022	(0.985)	120012	20.4082	20.40
82	p-Isopropyltoluene	119	10.146	10.150	(0.997)	102017	19.0585	19.05
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	67647	18.6771	18.67
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	70637	19.9941	19.99
86	Benzyl Chloride	91	10.311	10.311	(1.260)	78848	26.0690	26.06
87	n-Butylbenzene	91	10.494	10.494	(1.032)	93690	19.4602	19.46
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	66244	18.3696	18.36
89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	4902	19.6254	19.62
90	1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	43939	20.1394	20.13
91	Hexachlorobutadiene	225	12.001	12.001	(1.180)	20681	21.3780	21.37
92	Naphthalene	128	12.069	12.069	(1.186)	88031	18.5766	18.57
93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	40065	20.0556	20.05
146	Methyl acetate	43	2.705	2.712	(0.562)	20249	14.5433	14.54
138	Freon TF	101	2.322	2.334	(0.483)	22670	17.2311	17.23
141	Cyclohexane	56	4.774	4.781	(0.992)	43872	18.3345	18.33
142	Tetrahydrofuran	42	4.534	4.538	(0.942)	10560	37.1045	37.10
147	Methylcyclohexane	55	5.943	5.947	(1.072)	65204	18.1820	18.18
135	1,4-Dioxane	88	6.165	6.168	(1.281)	7194	380.178	380.17
132	n-Butanol	56	5.820	5.820	(1.210)	15740	367.827	367.82(a)
136	n-Hexane	57	3.331	3.342	(0.692)	26016	16.8841	16.88
139	Diethyl ether	59	2.135	2.142	(0.444)	18418	15.1317	15.13
148	Tert-butyl alcohol	59	2.960	2.963	(0.615)	43195	305.417	305.41
149	Isopropyl alcohol	45	2.558	2.562	(0.532)	31153	283.628	283.62
156	Diisopropyl ether	45	3.612	3.619	(0.751)	76523	13.2023	13.20
162	Butyl acrylate	55	8.732	8.733	(1.067)	51050	18.2795	18.27
164	Dicyclopentadiene	66	10.202	10.202	(1.003)	130336	17.9676	17.96
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	85973	17.9416	17.94
167	Ethanol	45	2.079	2.086	(0.432)	6217	289.291	289.29
172	tert-Butyl formate	59	5.235	5.239	(1.088)	48020	42.5640	42.56
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.301)	157609	338.391	338.39
140	1,3-Butadiene	54	1.393	1.404	(0.290)	34658	16.7957	16.79
182	Epichlorohydrin	57	6.626	6.630	(1.195)	3936	73.4990	73.49
M 94	1,2-Dichloroethylene (total)	96				58130	35.6658	35.66
M 95	Xylenes (total)	106				154182	60.0883	60.08
145	alpha-Methylstyrene	118	9.756	9.756	(0.959)	35062	19.0510	19.05
131	Methyl Acrylate	55	4.362	4.365	(0.907)	32515	16.3265	16.32
189	n-Butyl acetate	43	7.705	7.705	(0.941)	43678	18.0567	18.05
134	Cyclohexanone	55	9.152	9.152	(0.900)	29942	346.035	346.03(a)
185	Isoprene	39	2.146	2.154	(0.446)	5448	15.6143	15.61
188	Isopropyl acetate	43	5.280	5.284	(0.952)	79225	17.5430	17.54
150	Allyl alcohol	57	3.331	3.342	(0.692)	26016	337.682	337.68
194	Acetaldehyde	44	1.449	1.460	(0.301)	55287	137.630	137.62
200	Dimethyl Disulfide	94	6.742	6.746	(0.824)	17558	17.9910	17.99
133	Ethyl Acrylate	55	5.943	5.947	(1.235)	65204	17.2492	17.24
163	Butyl methacrylate	41	9.647	9.651	(0.948)	35103	20.3132	20.31
159	Propylene oxide	43	2.191	2.199	(0.455)	3901	35.5331	35.53
203	2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	31414	18.7300	18.73
204	Tetrahydrothiophene	60	7.668	7.672	(0.937)	31205	18.0992	18.09(A)
205	sec-Butyl Ether	57	7.214	7.218	(0.881)	33907	10.0024	10.00(A)
187	n-Amyl acetate	43	8.931	8.931	(1.091)	53850	20.0632	20.06

206 2-Chloropropene	41	1.914	1.925 (0.398)	47903	19.4178	19.41(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.



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Sample Info: VLCSW-240621;VLCSW-240621;3;;LCS
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

Page 1

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Inj Date : 21-JUN-2024 10:28
InstruID : VOA9.i
LabSampID : VLCSW-240621

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

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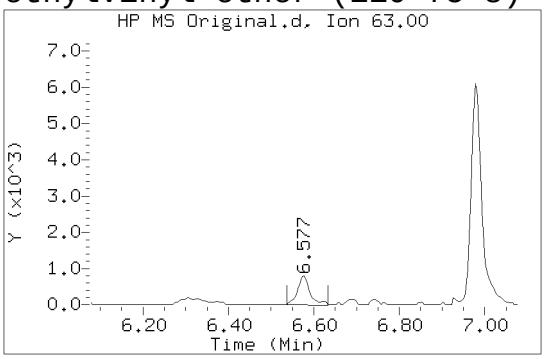

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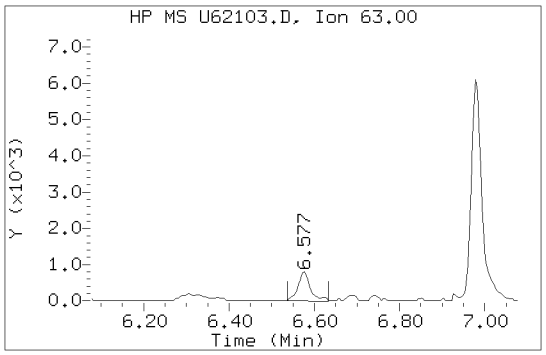

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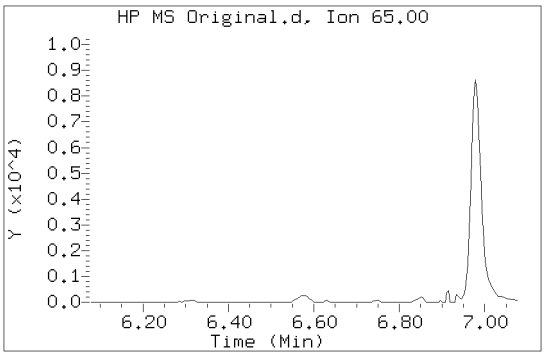

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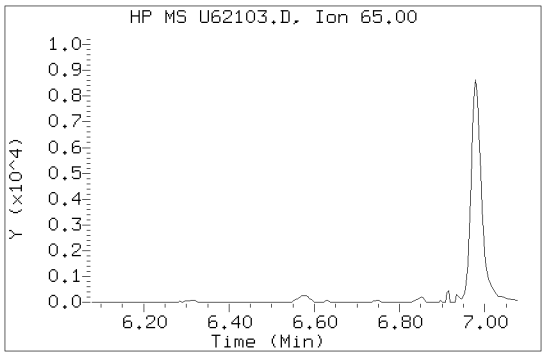

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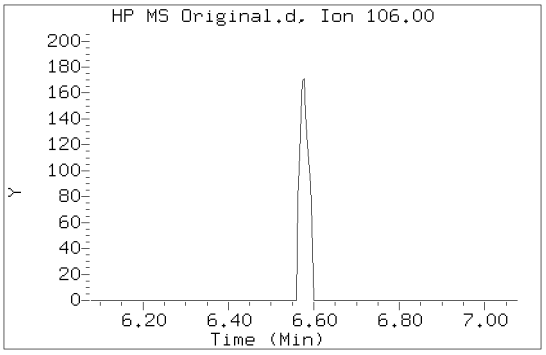

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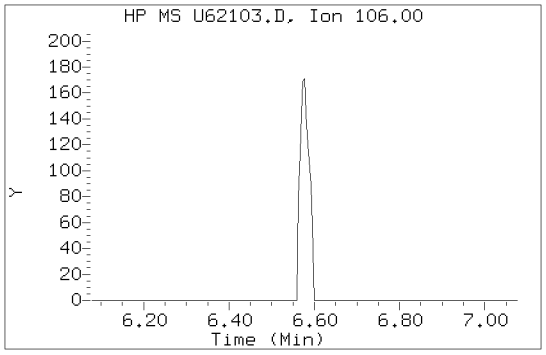

Toluene-d8 (2037-26-5)

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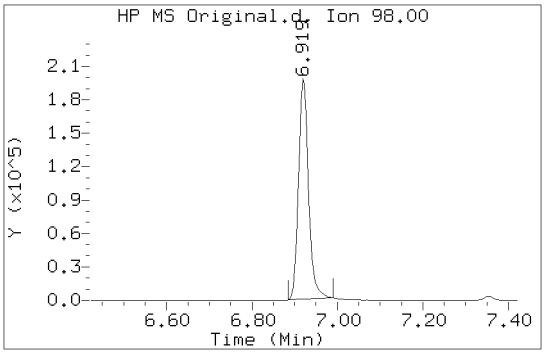

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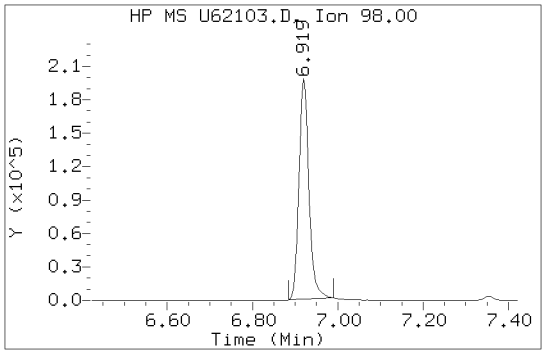

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LabSampID : VLCSW-240621

Toluene-d8 (2037-26-5)

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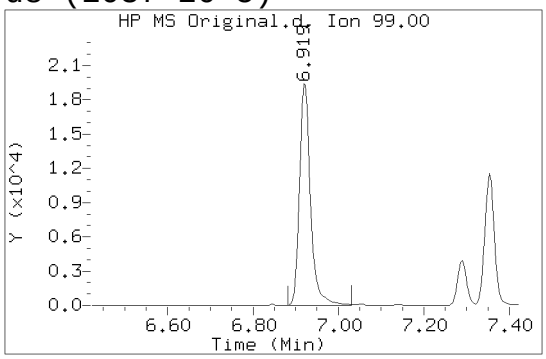

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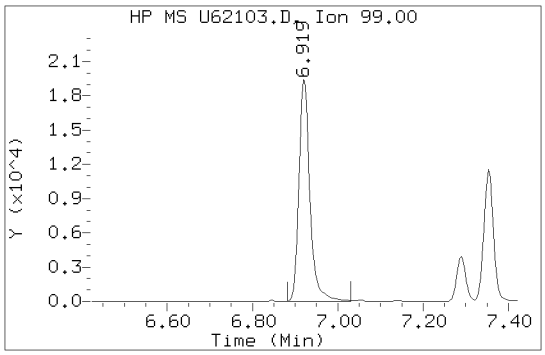

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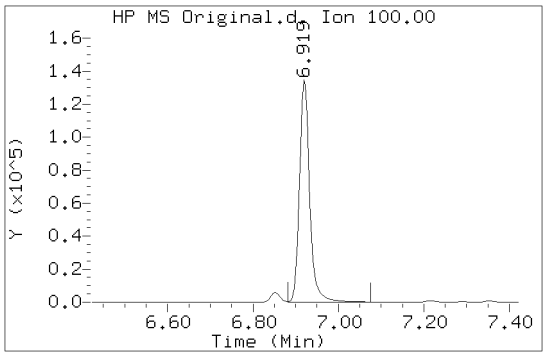

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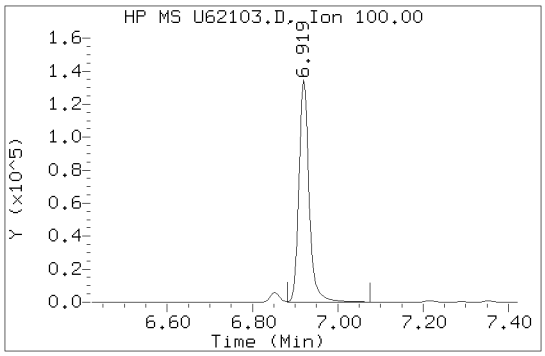

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Report Date: 22-Jul-2024 14:52

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62104.D
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Inj Date : 21-JUN-2024 10:50
Operator : TS Inst ID: VOA9.i
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Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa9.i\U240621.b\8260C.m
Meth Date : 22-Jul-2024 14:51 VOA9.i Quant Type: ISTD
Cal Date : 20-JUN-2024 14:15 Cal File: U62010.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: NAHSTW7014

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)	233940	50.0000	
2 Dichlorodifluoromethane	85	1.168	1.168	(0.243)	30833	18.4548	18.45
3 Chloromethane	50	1.299	1.299	(0.270)	66536	16.7226	16.72
4 Propionitrile	54	4.335	4.332	(0.900)	40571	185.392	185.39(a)
5 Vinyl Chloride	62	1.381	1.378	(0.287)	32871	15.9355	15.93
6 Bromomethane	94	1.610	1.610	(0.334)	15418	18.8312	18.83
7 Chloroethane	64	1.696	1.696	(0.352)	20774	15.3541	15.35
8 Trichlorofluoromethane	101	1.895	1.895	(0.394)	39610	17.6779	17.67
9 Acrolein	56	2.266	2.262	(0.471)	2348	28.7002	28.70(M)
10 Acetone	43	2.409	2.405	(0.500)	19083	26.5770	26.57
11 1,1-Dichloroethene	96	2.334	2.330	(0.485)	22085	16.1826	16.18
12 Isobutyl Alcohol	43	5.284	5.284	(1.097)	77492	335.544	335.54(a)
13 Acetonitrile	39	2.671	2.671	(0.555)	26238	139.429	139.42(aM)
14 Allyl Chloride	41	2.671	2.671	(0.555)	60683	13.9458	13.94(a)
15 Iodomethane	142	2.469	2.465	(0.513)	22999	45.2321	45.23
16 Acrylonitrile	53	3.065	3.065	(0.636)	17511	30.3284	30.32
17 Methylene Chloride	84	2.795	2.795	(0.580)	29189	16.4090	16.40
18 Methyl tert-butyl ether	73	3.080	3.076	(0.640)	65963	16.6770	16.67
19 Carbon Disulfide	76	2.521	2.521	(0.524)	122400	32.5449	32.54
20 trans-1,2-Dichloroethene	96	3.057	3.057	(0.635)	25085	17.1639	17.16

21 Vinyl Acetate	43	4.339	4.335 (0.901)	29324	35.7338	35.73
22 1,1-Dichloroethane	63	3.511	3.511 (0.729)	44083	15.7479	15.74

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62104.D Page 2
Report Date: 22-Jul-2024 14:52

	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)	36147	15.4036	15.40
	24 2-Butanone	43	4.264	4.260	(0.886)	28327	35.0278	35.02
	25 Methacrylonitrile	41	4.493	4.489	(0.933)	15567	15.7373	15.73(a)
	26 2,2-Dichloropropane	77	4.182	4.182	(0.868)	38408	18.1862	18.18
	27 cis-1,2-Dichloroethene	96	4.197	4.193	(0.872)	32309	18.8749	18.87
	28 Chloroform	83	4.572	4.572	(0.949)	52988	18.6145	18.61
	29 Bromochloromethane	128	4.467	4.467	(0.928)	16759	17.8942	17.89
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	85852	55.2479	55.24
	31 1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	41210	18.9736	18.97
	32 1,1-Dichloropropene	75	4.920	4.920	(0.887)	37763	18.8751	18.87
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	41233	18.6839	18.68
	34 Carbon Tetrachloride	117	4.909	4.909	(0.885)	32930	19.6378	19.63
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	100247	50.5793	50.57
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	327970	50.0000	
	37 Benzene	78	5.138	5.138	(0.926)	119728	17.7379	17.73
	38 Trichloroethene	130	5.786	5.786	(1.043)	30559	18.6559	18.65
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	35573	18.6468	18.64
	40 Methyl Methacrylate	41	5.824	5.820	(1.209)	10291	16.8102	16.81(a)
	41 2-Chloroethylvinyl ether	63	6.577	6.573	(1.185)	1835	47.7932	47.79(M)
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	31777	17.7740	17.77
	43 2-Nitropropane	43	6.506	6.506	(1.351)	6690	18.0870	18.08
	44 Dibromomethane	93	6.120	6.116	(1.103)	18685	17.9051	17.90
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	56977	34.6978	34.69
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	40615	18.2220	18.22
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	297960	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	323368	55.9136	55.91(M)
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	35725	17.1518	17.15(a)
	50 Toluene	91	6.982	6.982	(0.853)	127579	18.8054	18.80
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	33062	17.8533	17.85
	52 2-Hexanone	43	7.214	7.214	(0.881)	42184	37.7008	37.70
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	23725	18.0855	18.08
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	50113	18.1766	18.17
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	27434	20.0443	20.04
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	25552	20.1246	20.12
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	26591	18.3633	18.36
	58 1-Chlorohexane	55	8.197	8.197	(1.477)	24090	18.6226	18.62
	59 Chlorobenzene	112	8.208	8.212	(1.003)	82190	19.4572	19.45
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	27336	18.7556	18.75
	61 Ethylbenzene	106	8.305	8.309	(1.015)	39897	19.0027	19.00
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	99006	39.4972	39.49
	63 o-Xylene	106	8.748	8.748	(1.069)	49856	20.1832	20.18
	64 Styrene	104	8.763	8.763	(1.071)	84422	20.4419	20.44
	66 Bromoform	173	8.920	8.920	(1.090)	16196	18.4448	18.44
	67 Isopropylbenzene	105	9.062	9.062	(1.107)	123711	20.1862	20.18
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	38966	18.4667	18.46
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	123908	54.5290	54.52
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	169196	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	36935	17.8691	17.86
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	7235	17.3768	17.37(a)
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	142473	19.4730	19.47
	74 Bromobenzene	156	9.317	9.317	(0.916)	37277	18.7524	18.75
	75 1,3,5-Trimethylbenzene	105	9.565	9.565	(0.940)	95073	18.1656	18.16

76	2-Chlorotoluene	91	9.482	9.482 (0.932)	90062	18.1895	18.18
77	4-Chlorotoluene	91	9.576	9.576 (0.941)	105059	18.6960	18.69

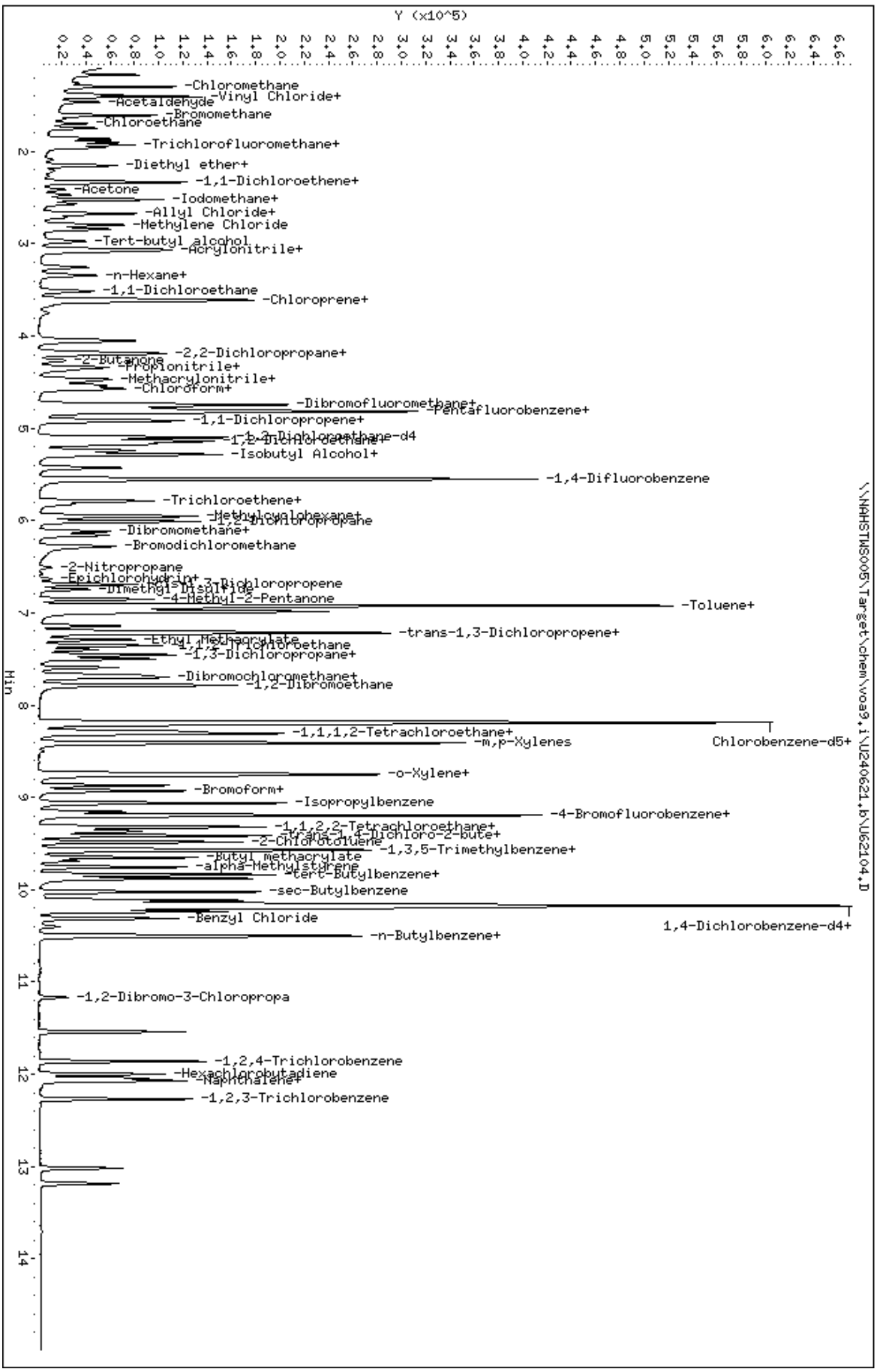
Data File: \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62104.D Page 3
Report Date: 22-Jul-2024 14:52

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
78	tert-Butylbenzene	119	9.838	9.838	(0.967)	88173	19.7732	19.77
79	1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	93995	17.4580	17.45
81	sec-Butylbenzene	105	10.022	10.022	(0.985)	115154	19.3905	19.39
82	p-Isopropyltoluene	119	10.146	10.150	(0.997)	98854	18.3536	18.35
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	65227	17.8327	17.83
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	69209	19.3793	19.37
86	Benzyl Chloride	91	10.311	10.311	(1.260)	78246	26.3985	26.39
87	n-Butylbenzene	91	10.494	10.494	(1.032)	88305	18.2529	18.25
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	64522	17.7170	17.71
89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	4877	19.3424	19.34
90	1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	42320	19.2075	19.20
91	Hexachlorobutadiene	225	12.001	12.001	(1.180)	19555	20.0162	20.01
92	Naphthalene	128	12.069	12.069	(1.186)	84129	17.6846	17.68
93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	39274	19.4673	19.46
146	Methyl acetate	43	2.716	2.712	(0.564)	19011	13.9337	13.93
138	Freon TF	101	2.334	2.334	(0.485)	21756	16.9791	16.97
141	Cyclohexane	56	4.781	4.781	(0.993)	42277	18.1392	18.13
142	Tetrahydrofuran	42	4.542	4.538	(0.943)	10958	39.5512	39.55
147	Methylcyclohexane	55	5.947	5.947	(1.072)	64536	18.5311	18.53
135	1,4-Dioxane	88	6.165	6.168	(1.280)	6984	379.031	379.03
132	n-Butanol	56	5.824	5.820	(1.209)	15112	362.816	362.81(a)
136	n-Hexane	57	3.342	3.342	(0.694)	23721	15.8138	15.81
139	Diethyl ether	59	2.146	2.142	(0.446)	17701	14.9260	14.92
148	Tert-butyl alcohol	59	2.971	2.963	(0.617)	43496	316.350	316.35
149	Isopropyl alcohol	45	2.570	2.562	(0.534)	31287	293.088	293.08
156	Diisopropyl ether	45	3.619	3.619	(0.752)	75744	13.4237	13.42
162	Butyl acrylate	55	8.733	8.733	(1.067)	50254	18.3226	18.32
164	Dicyclopentadiene	66	10.202	10.202	(1.003)	129110	17.6244	17.62
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	83288	17.2112	17.21
167	Ethanol	45	2.090	2.086	(0.434)	6031	288.194	288.19
172	tert-Butyl formate	59	5.239	5.239	(1.088)	46214	42.0877	42.08
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	156200	345.343	345.34
140	1,3-Butadiene	54	1.404	1.404	(0.292)	32575	16.2160	16.21
182	Epichlorohydrin	57	6.630	6.630	(1.195)	4126	78.8036	78.80
M 94	1,2-Dichloroethylene (total)	96				57394	36.1869	36.18
M 95	Xylenes (total)	106				148862	59.7409	59.74
145	alpha-Methylstyrene	118	9.756	9.756	(0.959)	34488	18.5815	18.58
131	Methyl Acrylate	55	4.369	4.365	(0.907)	31882	16.4445	16.44
189	n-Butyl acetate	43	7.705	7.705	(0.941)	43614	18.3590	18.35
134	Cyclohexanone	55	9.152	9.152	(0.900)	27932	319.181	319.18(a)
185	Isoprene	39	2.157	2.154	(0.448)	4975	14.6468	14.64
188	Isopropyl acetate	43	5.284	5.284	(0.952)	77492	17.6697	17.66
150	Allyl alcohol	57	3.342	3.342	(0.694)	23721	316.276	316.27
194	Acetaldehyde	44	1.464	1.460	(0.304)	51373	131.368	131.36
200	Dimethyl Disulfide	94	6.742	6.746	(0.824)	17269	18.0146	18.01
133	Ethyl Acrylate	55	5.947	5.947	(1.235)	64536	17.5373	17.53
163	Butyl methacrylate	41	9.647	9.651	(0.948)	33360	19.0798	19.07
159	Propylene oxide	43	2.202	2.199	(0.457)	3255	30.4560	30.45
203	2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	29225	17.3779	17.37
204	Tetrahydrothiophene	60	7.672	7.672	(0.937)	30618	18.0825	18.08(A)
205	sec-Butyl Ether	57	7.214	7.218	(0.881)	34940	10.4951	10.49(A)
187	n-Amyl acetate	43	8.931	8.931	(1.091)	50902	19.3107	19.31

206 2-Chloropropene	41	1.925	1.925 (0.400)	45500	18.9459	18.94(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.



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Sample Info: VLCSDW-240621,VLCSDW-240621,3,,LCSD
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62104.D
Inj Date : 21-JUN-2024 10:50
InstruID : VOA9.i
LabSampID : VLCSDW-240621

Acrolein (107-02-8)

Reason Code:

BEFORE

MASS
56
AREA
2348
HEIGHT
1524
22-Jul-2024
14:51
r
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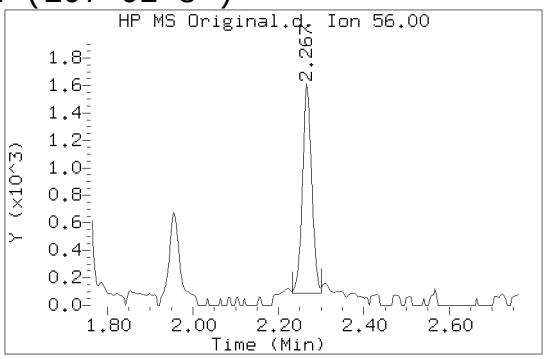

AFTER

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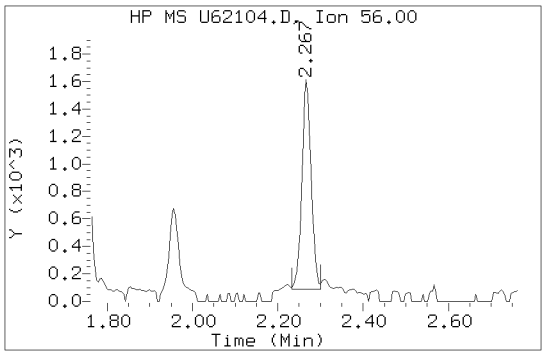

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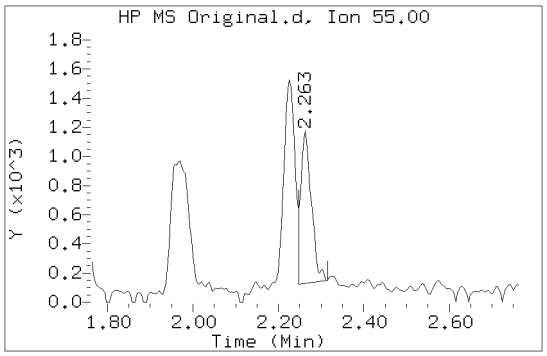

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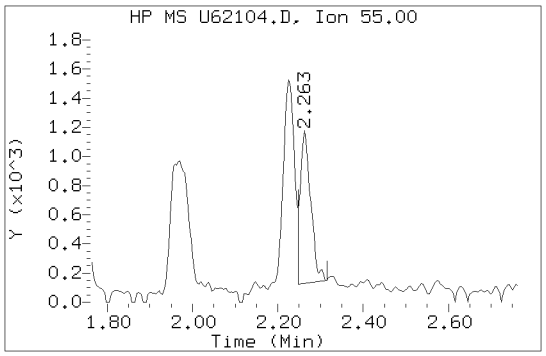

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

BEFORE

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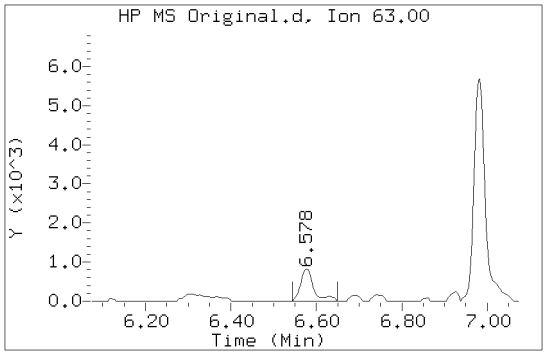

AFTER

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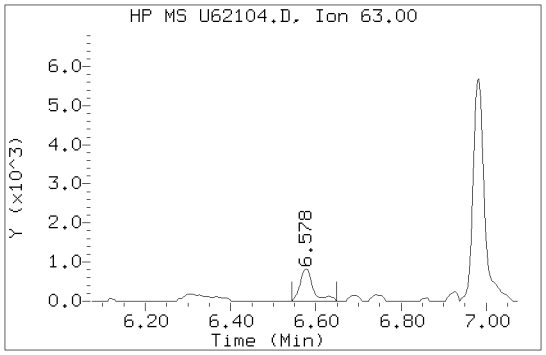

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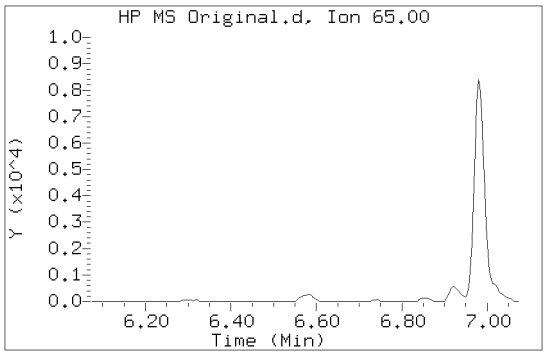

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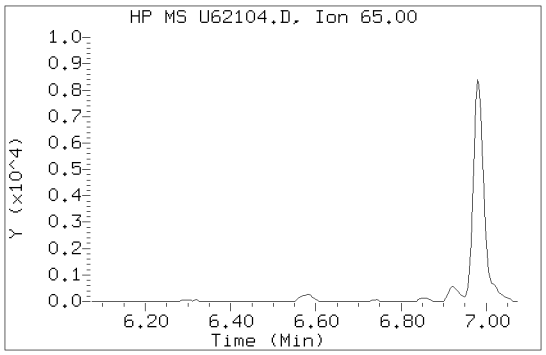

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InstruID : VOA9.i
LabSampID : VLCSDW-240621

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

BEFORE

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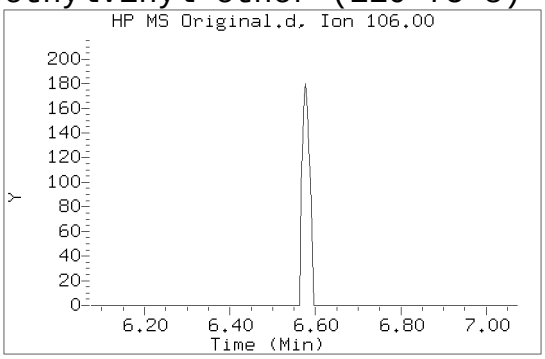

AFTER

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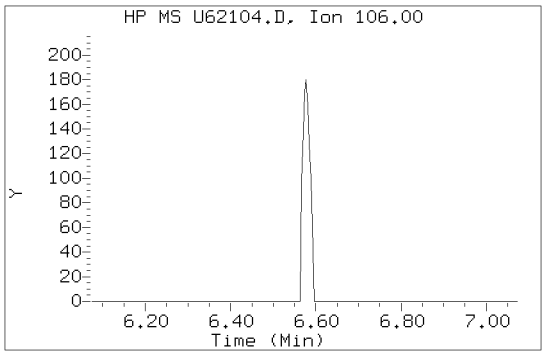

Acetonitrile (75-05-8)

Reason Code:

BEFORE

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HEIGHT
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22-Jul-2024
14:51
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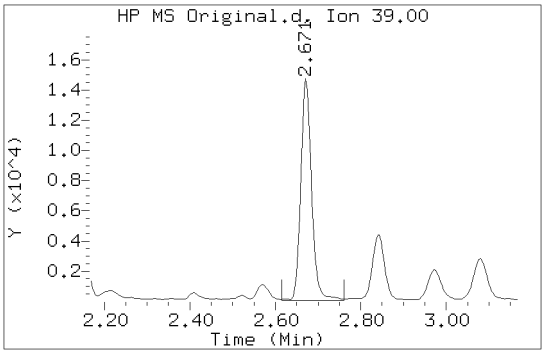

AFTER

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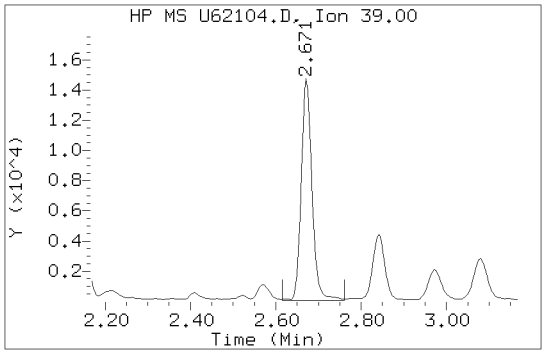

BEFORE

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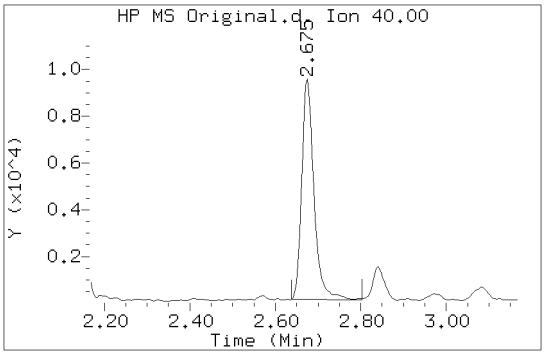

AFTER

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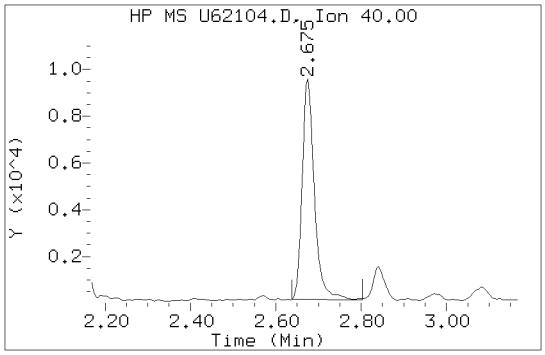
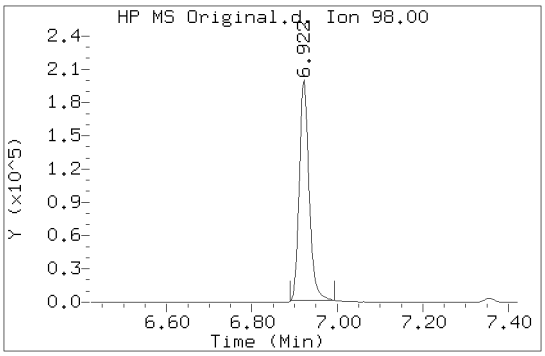


Toluene-d8 (2037-26-5)

Reason Code: MPT

BEFORE

MASS
98
AREA
323368
HEIGHT
198978
22-Jul-2024
14:51
r
patel



AFTER

MASS
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HEIGHT
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22-Jul-2024
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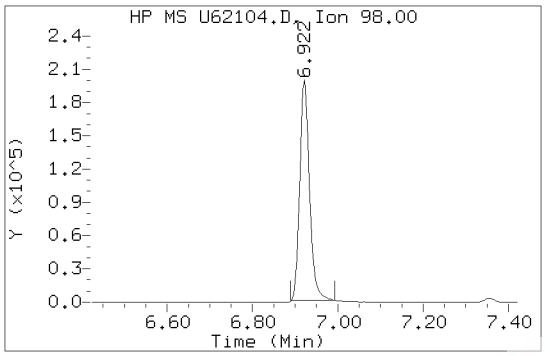

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Inj Date : 21-JUN-2024 10:50
InstruID : VOA9.i
LabSampID : VLCSDW-240621

Toluene-d8 (2037-26-5)

Reason Code: MPT

BEFORE

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AREA
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HEIGHT
20168
22-Jul-2024
14:51
r
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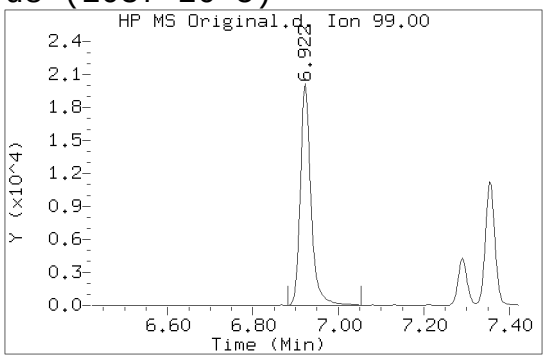

AFTER

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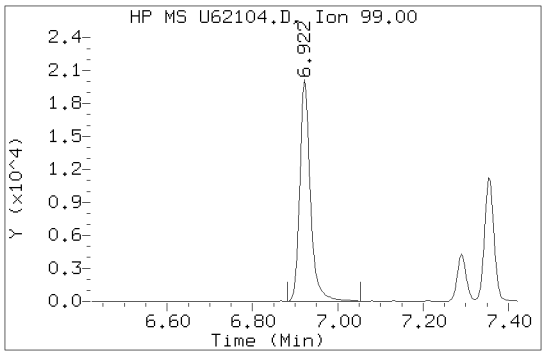

BEFORE

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22-Jul-2024
14:51
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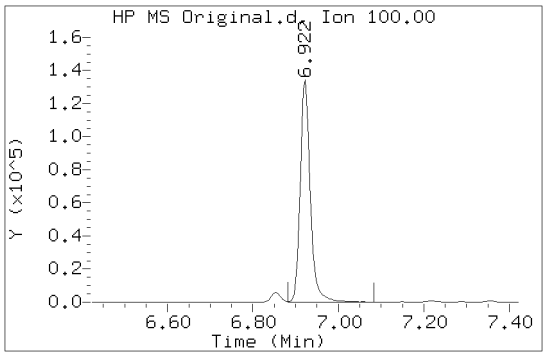

AFTER

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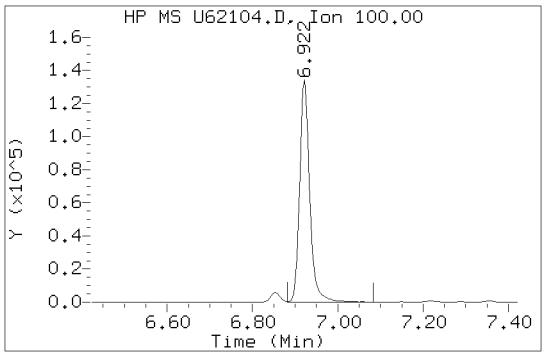

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62106.D Page 1
Report Date: 22-Jul-2024 14:24

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62106.D
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Inj Date : 21-JUN-2024 11:32
Operator : TS Inst ID: VOA9.i
Smp Info : VBLKW-240621;VBLKW-240621;3;;BLANK
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240621.b\8260C.m
Meth Date : 22-Jul-2024 14:24 VOA9.i Quant Type: ISTD
Cal Date : 20-JUN-2024 14:15 Cal File: U62010.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: NAHSTW7014

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)	231770	50.0000	
$ 30 Dibromofluoromethane	113	4.740	4.748	(0.985)	83877	54.4823	54.48
$ 35 1,2-Dichloroethane-d4	65	5.092	5.096	(1.058)	102337	52.1173	52.11
* 36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	332936	50.0000	
* 47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	298711	50.0000	
$ 48 Toluene-d8	98	6.918	6.922	(0.845)	319964	55.1860	55.18(M)
$ 69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	115704	50.7906	50.79
* 70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	158104	50.0000	

QC Flag Legend

M - Compound response manually integrated.

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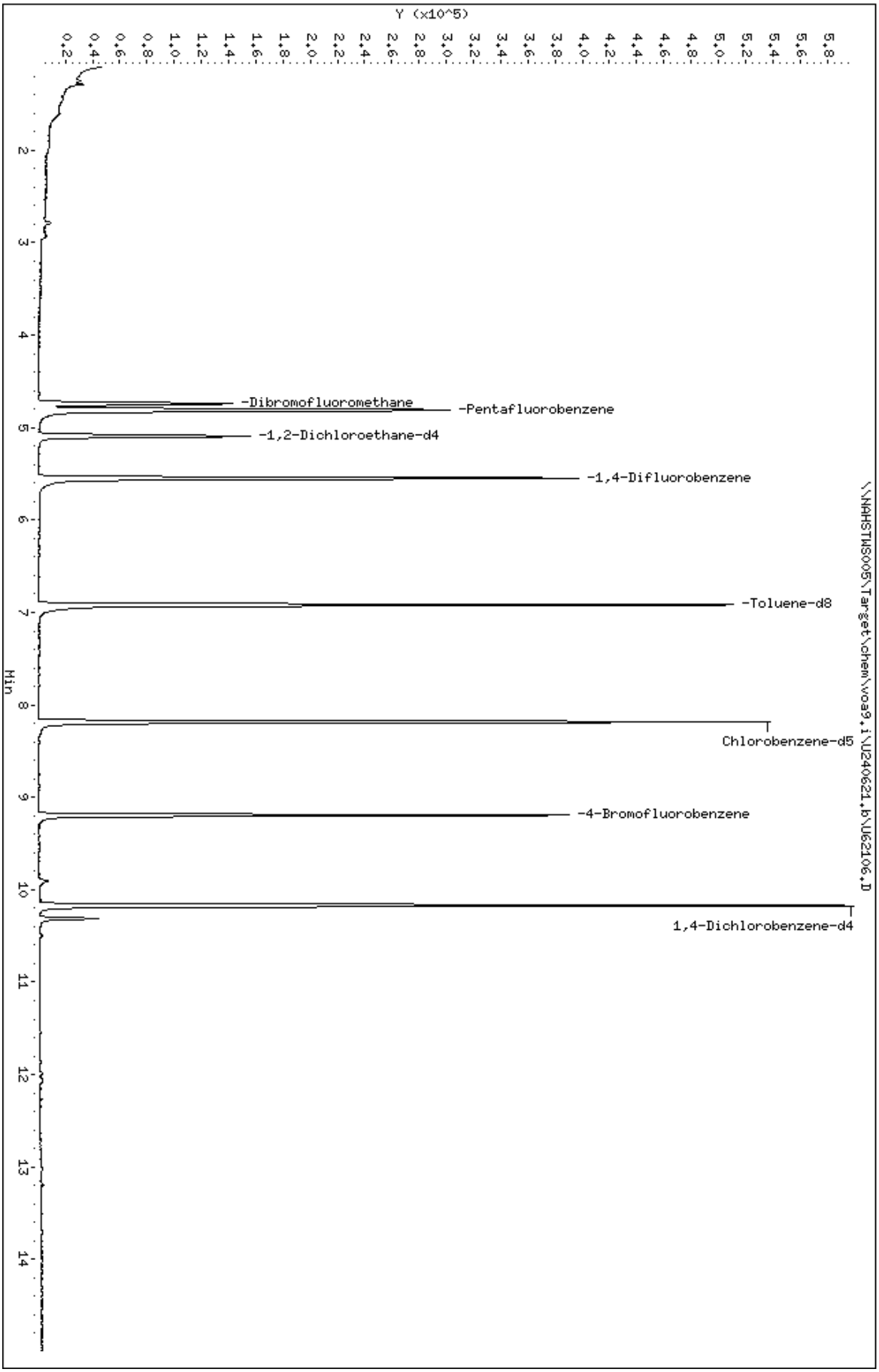
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: TS
Column diameter: 0.18



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Inj Date : 21-JUN-2024 11:32
InstruID : VOA9.i
LabSampID : VBLKW-240621

Toluene-d8 (2037-26-5)

Reason Code:

BEFORE
MASS
98
AREA
319964
HEIGHT
195175
22-Jul-2024
14:23
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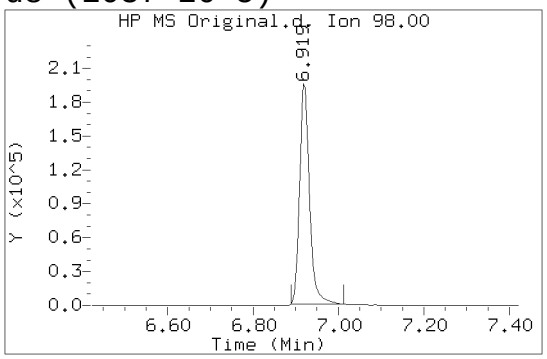

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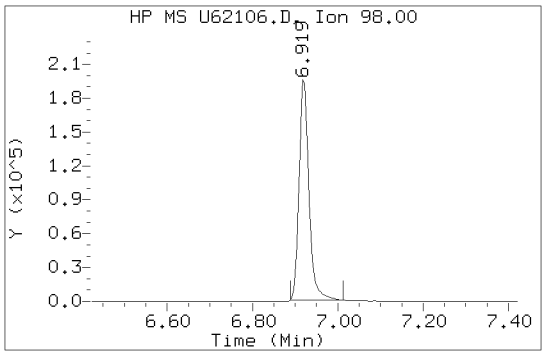

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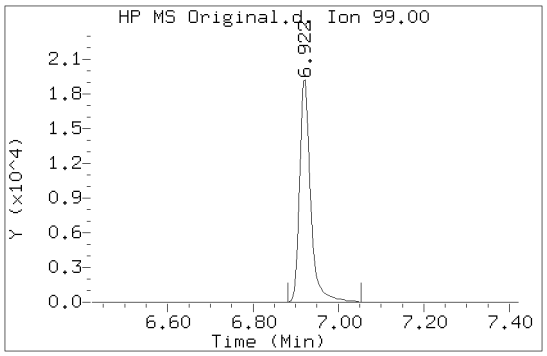

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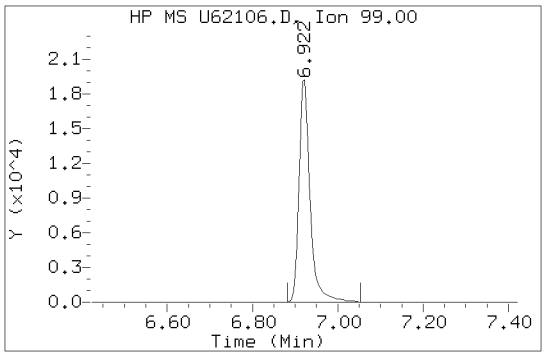

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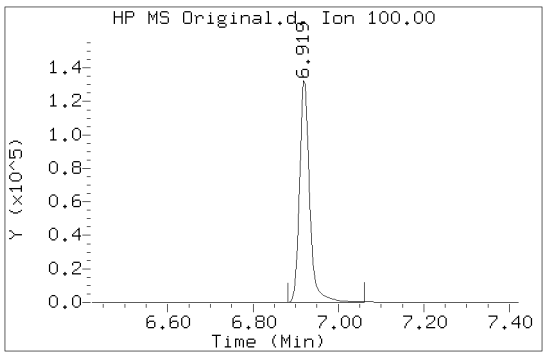

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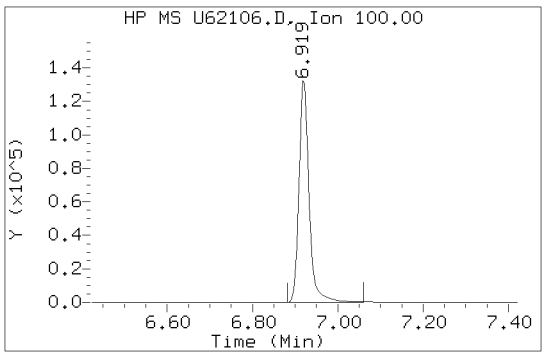


Data File: \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62116.D Page 1
Report Date: 22-Jul-2024 14:52

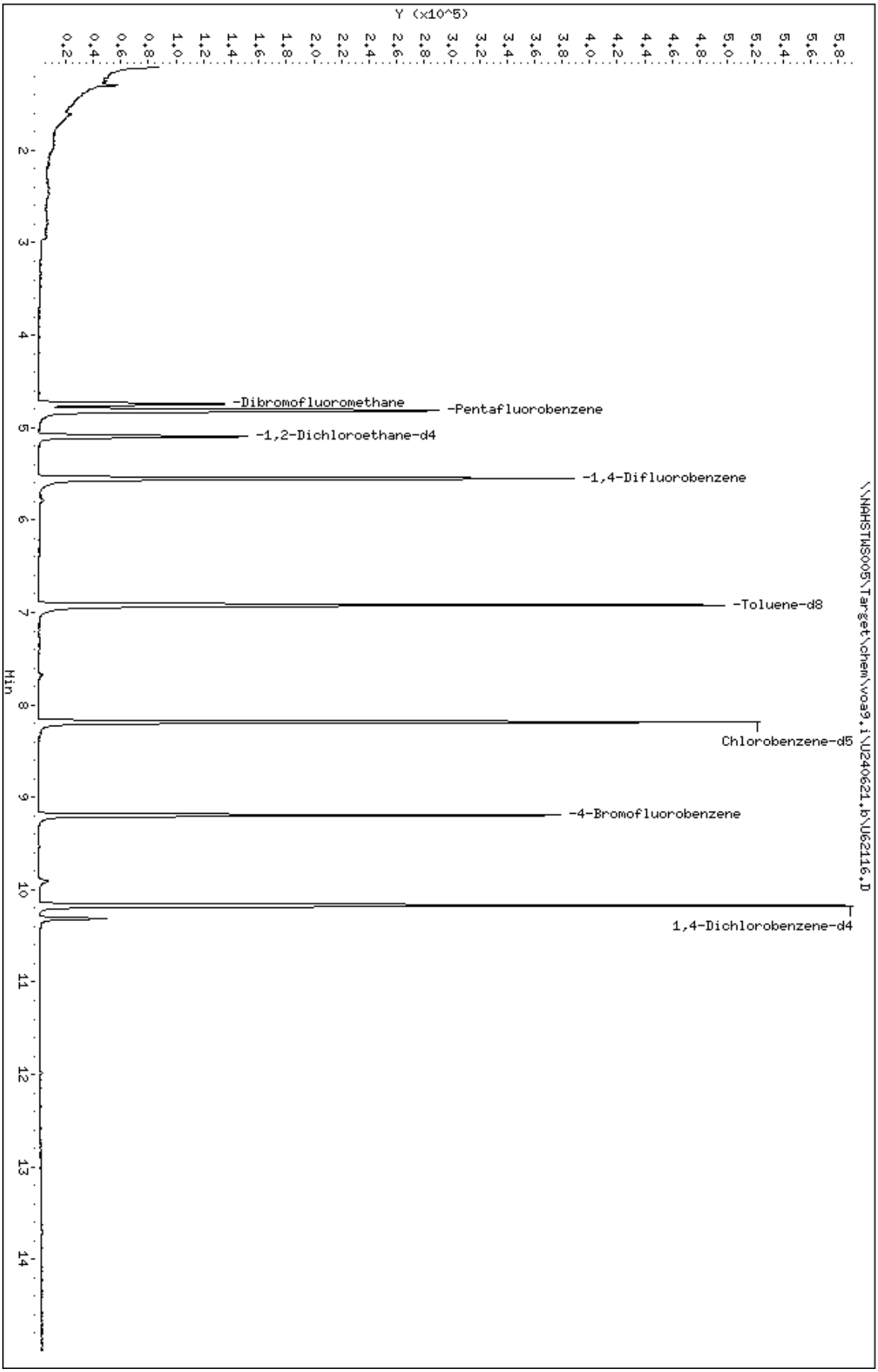
ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62116.D
Lab Smp Id: HS24060747-08
Inj Date : 21-JUN-2024 15:12
Operator : TS   Inst ID: VOA9.i
Smp Info : HS24060747-08
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240621.b\8260C.m
Meth Date : 22-Jul-2024 14:51 VOA9.i   Quant Type: ISTD
Cal Date : 20-JUN-2024 14:15   Cal File: U62010.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7014

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)	223836	50.0000	
$ 30 Dibromofluoromethane	113	4.744	4.748	(0.985)	79010	53.1400	53.14
$ 35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	97997	51.6760	51.67
* 36 1,4-Difluorobenzene	114	5.554	5.550	(1.000)	319389	50.0000	
* 47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	288269	50.0000	
$ 48 Toluene-d8	98	6.922	6.922	(0.846)	311300	55.6365	55.63
$ 69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	112495	51.1707	51.17
* 70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	155581	50.0000	



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Date : 21-JUN-2024 15:12
Client ID:
Sample Info: HS24060747-08
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: TS
Column diameter: 0.18

Page 1

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62116.D
Inj Date : 21-JUN-2024 15:12
InstruID : VOA9.i
LabSampID : HS24060747-08

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62117.D Page 1
Report Date: 22-Jul-2024 14:24

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62117.D
Lab Smp Id: HS24060747-08MS Client Smp ID: HS24060747-08MS
Inj Date : 21-JUN-2024 15:34
Operator : TS Inst ID: VOA9.i
Smp Info : HS24060747-08MS;HS24060747-08MS;3;;MS
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240621.b\8260C.m
Meth Date : 22-Jul-2024 14:24 VOA9.i Quant Type: ISTD
Cal Date : 20-JUN-2024 14:15 Cal File: U62010.D
Als bottle: 16 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7014

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)	231811	50.0000	
2	Dichlorodifluoromethane	85	1.160	1.168	(0.241)	31918	19.2797	19.27
3	Chloromethane	50	1.292	1.299	(0.268)	79755	20.6310	20.63
4	Propionitrile	54	4.332	4.332	(0.900)	31997	146.351	146.35(a)
5	Vinyl Chloride	62	1.374	1.378	(0.286)	34129	16.6912	16.69
6	Bromomethane	94	1.599	1.610	(0.332)	13151	15.9056	15.90
7	Chloroethane	64	1.689	1.696	(0.351)	20600	15.3658	15.36
8	Trichlorofluoromethane	101	1.888	1.895	(0.392)	41568	18.7221	18.72
9	Acrolein	56	2.259	2.262	(0.469)	1676	18.7823	18.78(a)
10	Acetone	43	2.401	2.405	(0.499)	14867	19.2262	19.22
11	1,1-Dichloroethene	96	2.326	2.330	(0.484)	22681	16.7719	16.77
12	Isobutyl Alcohol	43	5.280	5.284	(1.097)	66272	289.596	289.59(a)
13	Acetonitrile	39	2.664	2.671	(0.554)	22552	119.557	119.55(a)
14	Allyl Chloride	41	2.664	2.671	(0.554)	48563	11.1623	11.16(a)
15	Iodomethane	142	2.457	2.465	(0.511)	9940	20.3224	20.32
16	Acrylonitrile	53	3.057	3.065	(0.635)	14050	24.4603	24.46
17	Methylene Chloride	84	2.787	2.795	(0.579)	26214	14.7042	14.70
18	Methyl tert-butyl ether	73	3.072	3.076	(0.639)	51634	13.2624	13.26
19	Carbon Disulfide	76	2.514	2.521	(0.522)	120840	32.4252	32.42
20	trans-1,2-Dichloroethene	96	3.050	3.057	(0.634)	24343	16.7963	16.79

21 Vinyl Acetate	43	4.335	4.335 (0.901)	25732	31.6081	31.60
22 1,1-Dichloroethane	63	3.503	3.511 (0.728)	43738	15.7692	15.76

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	23 Chloroprene	53	3.601	3.608	(0.748)	39013	16.8001	16.80
	24 2-Butanone	43	4.260	4.260	(0.885)	24504	30.5973	30.59
	25 Methacrylonitrile	41	4.489	4.489	(0.933)	12887	13.2815	13.28(a)
	26 2,2-Dichloropropane	77	4.174	4.182	(0.868)	38032	18.1739	18.17
	27 cis-1,2-Dichloroethene	96	4.189	4.193	(0.871)	30944	18.2309	18.23
	28 Chloroform	83	4.568	4.572	(0.949)	52926	18.7705	18.77
	29 Bromochloromethane	128	4.463	4.467	(0.928)	15608	16.8183	16.81
$	30 Dibromofluoromethane	113	4.744	4.748	(0.986)	83044	53.9317	53.93
	31 1,1,1-Trichloroethane	97	4.737	4.740	(0.984)	42239	19.6260	19.62
	32 1,1-Dichloropropene	75	4.916	4.920	(0.886)	39107	19.5740	19.57
	33 1,2-Dichloroethane	62	5.171	5.175	(0.932)	39337	17.7983	17.79
	34 Carbon Tetrachloride	117	4.905	4.909	(0.884)	33602	20.0664	20.06
$	35 1,2-Dichloroethane-d4	65	5.093	5.096	(1.058)	97612	49.7022	49.70
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	327515	50.0000	
	37 Benzene	78	5.134	5.138	(0.925)	118697	17.6096	17.60
	38 Trichloroethene	130	5.786	5.786	(1.043)	31641	19.3433	19.34
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	33928	17.8092	17.80
	40 Methyl Methacrylate	41	5.824	5.820	(1.210)	7847	12.9357	12.93(a)
	41 2-Chloroethylvinyl ether	63	6.566	6.573	(1.183)	559	21.2211	21.22(M)
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	30597	17.1378	17.13
	43 2-Nitropropane	43	6.506	6.506	(1.352)	4377	11.9423	11.94
	44 Dibromomethane	93	6.116	6.116	(1.102)	18056	17.3264	17.32
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	50275	30.5644	30.56
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	37321	16.7674	16.76
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	298467	50.0000	
$	48 Toluene-d8	98	6.918	6.922	(0.845)	322658	55.6961	55.69(M)
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	28720	13.8078	13.80(a)
	50 Toluene	91	6.978	6.982	(0.853)	126986	18.6862	18.68
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	30454	16.6395	16.63
	52 2-Hexanone	43	7.214	7.214	(0.881)	31551	27.9280	27.92
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	22742	17.3067	17.30
	54 1,3-Dichloropropane	76	7.496	7.499	(0.916)	46642	16.8889	16.88
	55 Dibromochloromethane	129	7.691	7.690	(0.940)	25281	18.4399	18.43
	56 Tetrachloroethene	164	7.454	7.458	(0.911)	26715	21.0048	21.00
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	25116	17.3152	17.31
	58 1-Chlorohexane	55	8.193	8.197	(1.476)	22967	17.7458	17.74
	59 Chlorobenzene	112	8.208	8.212	(1.003)	81232	19.1873	19.18
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	26417	18.0943	18.09
	61 Ethylbenzene	106	8.305	8.309	(1.015)	40119	19.0760	19.07
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	97220	38.7188	38.71
	63 o-Xylene	106	8.748	8.748	(1.069)	47803	19.3192	19.31
	64 Styrene	104	8.763	8.763	(1.071)	73945	17.8746	17.87
	66 Bromoform	173	8.916	8.920	(1.089)	14873	17.0055	17.00
	67 Isopropylbenzene	105	9.063	9.062	(1.107)	124344	20.2550	20.25
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	36620	17.2482	17.24
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	120422	52.9048	52.90
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	170034	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	33095	16.0216	16.02
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	6493	15.5682	15.56(a)
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	136080	18.5075	18.50
	74 Bromobenzene	156	9.317	9.317	(0.916)	35124	17.5822	17.58
	75 1,3,5-Trimethylbenzene	105	9.565	9.565	(0.940)	84199	16.2095	16.20

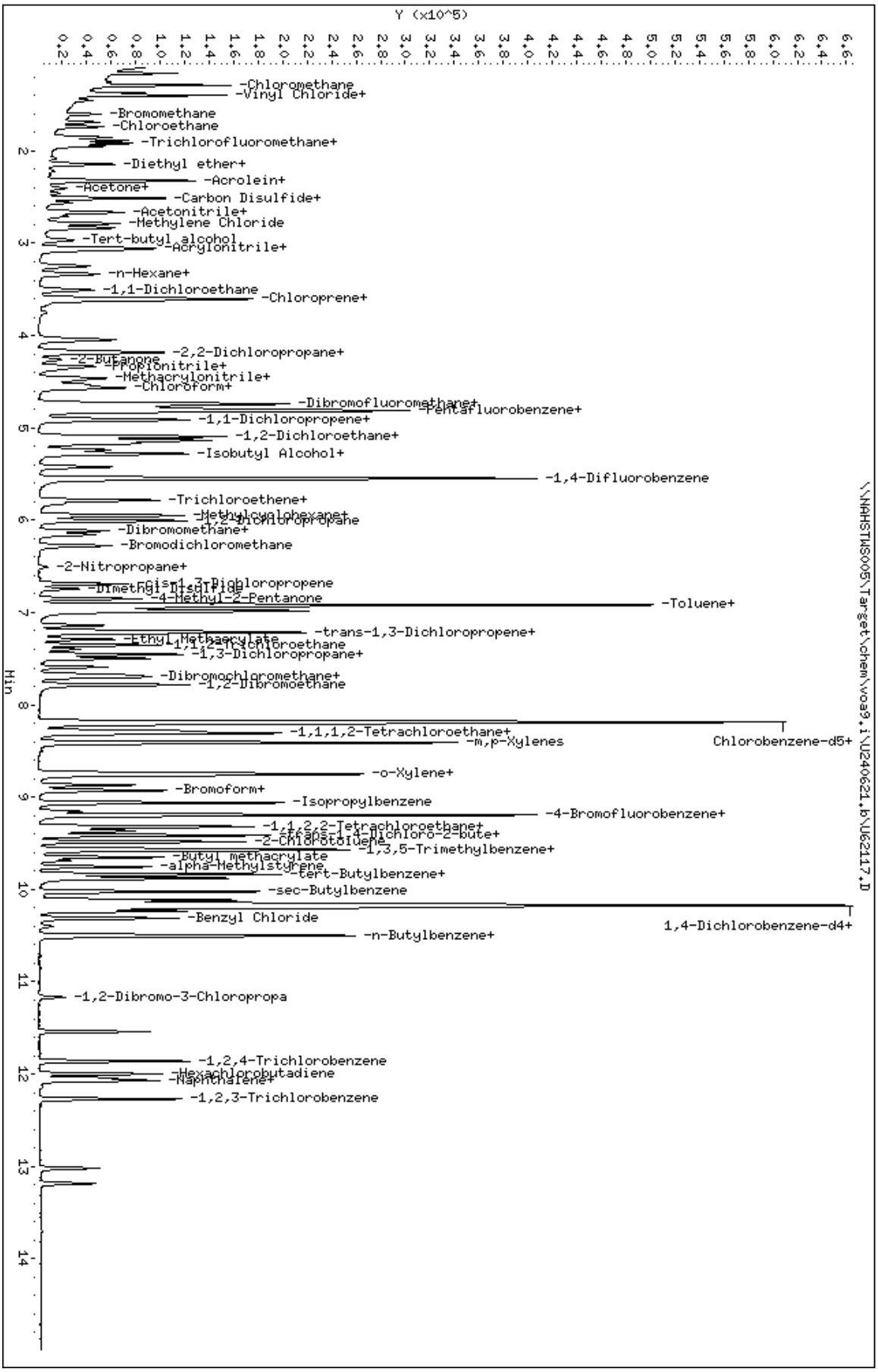
76	2-Chlorotoluene	91	9.482	9.482 (0.932)	89227	17.9320	17.93
77	4-Chlorotoluene	91	9.576	9.576 (0.941)	101042	17.8926	17.89

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62117.D Page 3
Report Date: 22-Jul-2024 14:24

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
78	tert-Butylbenzene	119	9.839	9.838	(0.967)	89876	20.0558	20.05
79	1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	82889	15.3193	15.31
81	sec-Butylbenzene	105	10.022	10.022	(0.985)	114675	19.2146	19.21
82	p-Isopropyltoluene	119	10.146	10.150	(0.997)	90754	16.9091	16.90
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	64132	17.4469	17.44
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	66277	18.4372	18.43
86	Benzyl Chloride	91	10.311	10.311	(1.260)	74746	24.9231	24.92
87	n-Butylbenzene	91	10.495	10.494	(1.032)	85278	17.5935	17.59
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	63338	17.3061	17.30
89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	4385	17.3600	17.35
90	1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	37912	17.1220	17.12
91	Hexachlorobutadiene	225	12.002	12.001	(1.180)	18941	19.2922	19.29
92	Naphthalene	128	12.069	12.069	(1.186)	67802	14.5703	14.57
93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	35572	17.5454	17.54
146	Methyl acetate	43	2.709	2.712	(0.563)	16474	11.8600	11.86
138	Freon TF	101	2.326	2.334	(0.484)	22874	18.0478	18.04
141	Cyclohexane	56	4.778	4.781	(0.993)	42989	18.6393	18.63
142	Tetrahydrofuran	42	4.538	4.538	(0.943)	7500	27.3187	27.31
147	Methylcyclohexane	55	5.947	5.947	(1.072)	53964	15.5170	15.51
135	1,4-Dioxane	88	6.165	6.168	(1.281)	5402	287.901	287.90
132	n-Butanol	56	5.824	5.820	(1.210)	10489	254.757	254.75(a)
136	n-Hexane	57	3.335	3.342	(0.693)	24824	16.7011	16.70
139	Diethyl ether	59	2.139	2.142	(0.445)	13968	11.6847	11.68
148	Tert-butyl alcohol	59	2.967	2.963	(0.617)	32243	233.490	233.49
149	Isopropyl alcohol	45	2.562	2.562	(0.533)	23091	214.384	214.38
156	Diisopropyl ether	45	3.616	3.619	(0.751)	71468	12.7822	12.78
162	Butyl acrylate	55	8.733	8.733	(1.067)	38668	14.0744	14.07
164	Dicyclopentadiene	66	10.202	10.202	(1.003)	105774	14.3677	14.36
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	63338	13.0241	13.02
167	Ethanol	45	2.082	2.086	(0.433)	4907	232.426	232.42
172	tert-Butyl formate	59	5.239	5.239	(1.089)	35219	32.4489	32.44
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	112738	249.599	249.59
140	1,3-Butadiene	54	1.396	1.404	(0.290)	32823	16.4896	16.48
M 94	1,2-Dichloroethylene (total)	96				55287	35.1513	35.15
M 95	Xylenes (total)	106				145023	58.2811	58.28
145	alpha-Methylstyrene	118	9.756	9.756	(0.959)	25756	14.0458	14.04
131	Methyl Acrylate	55	4.365	4.365	(0.907)	24720	12.8675	12.86
189	n-Butyl acetate	43	7.706	7.705	(0.941)	37689	15.8380	15.83
134	Cyclohexanone	55	9.153	9.152	(0.900)	13774	152.848	152.84(a)
185	Isoprene	39	2.146	2.154	(0.446)	5253	15.6073	15.60
188	Isopropyl acetate	43	5.280	5.284	(0.951)	66921	15.2805	15.28
150	Allyl alcohol	57	3.335	3.342	(0.693)	24824	334.022	334.02
200	Dimethyl Disulfide	94	6.742	6.746	(0.824)	12927	13.9159	13.91
133	Ethyl Acrylate	55	5.947	5.947	(1.236)	53964	14.7991	14.79
163	Butyl methacrylate	41	9.647	9.651	(0.948)	26225	14.7926	14.79
203	2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	20279	12.4479	12.44
204	Tetrahydrothiophene	60	7.672	7.672	(0.937)	22056	13.0038	13.00(A)
205	sec-Butyl Ether	57	7.214	7.218	(0.881)	25877	7.75961	7.75(A)
187	n-Amyl acetate	43	8.931	8.931	(1.091)	43129	16.3340	16.33
206	2-Chloropropene	41	1.918	1.925	(0.399)	41164	17.2978	17.29(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\U240621,b\U62117.D
Date : 21-JUN-2024 15:34
Client ID: HS24060747-08MS
Sample Info: HS24060747-08MS;HS24060747-08MS;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\U240621.b\U62117.D
Inj Date : 21-JUN-2024 15:34
InstruID : VOA9.i
LabSampID : HS24060747-08MS

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

BEFORE
MASS
63
AREA
559
HEIGHT
269
22-Jul-2024
14:23
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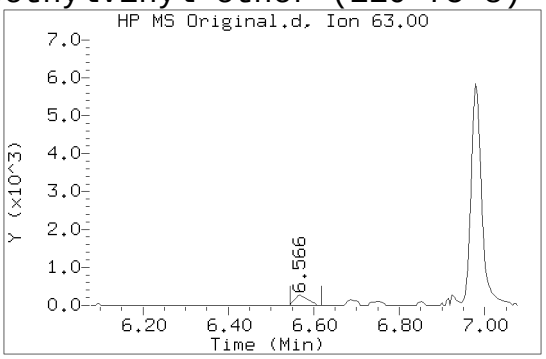
patel



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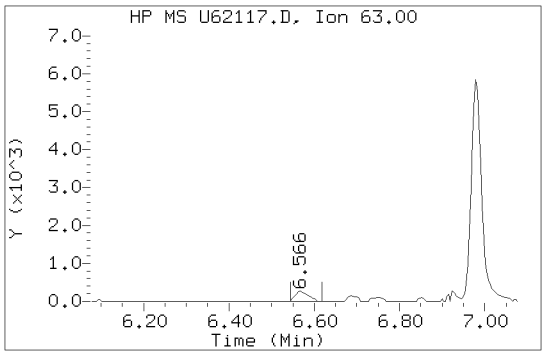

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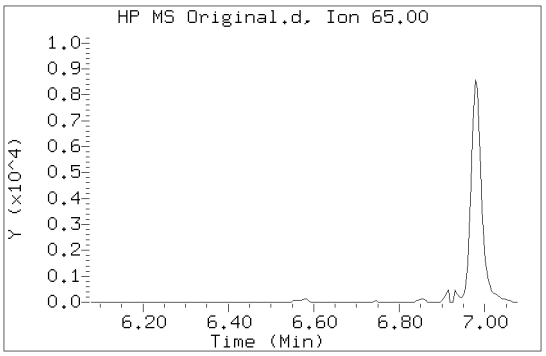

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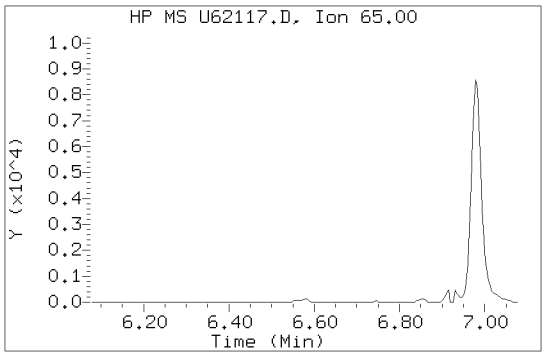

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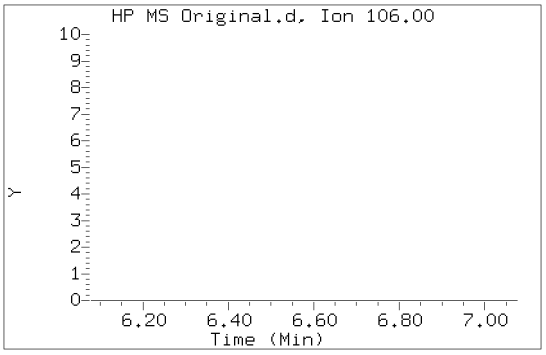

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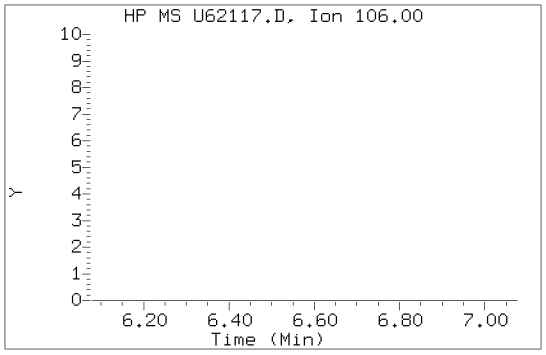

Toluene-d8 (2037-26-5)

Reason Code: MPT

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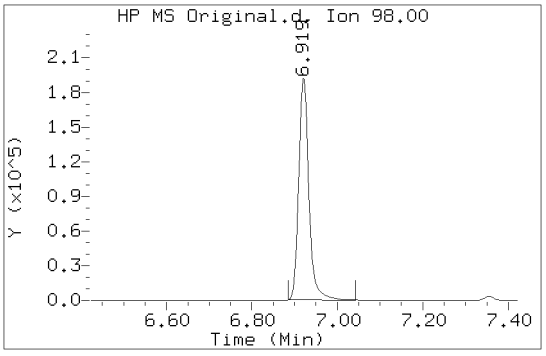

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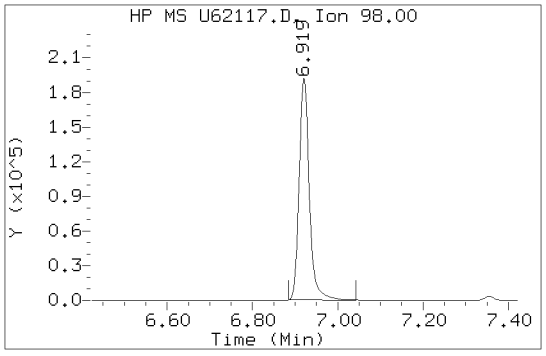

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Inj Date : 21-JUN-2024 15:34
InstruID : VOA9.i
LabSampID : HS24060747-08MS

Toluene-d8 (2037-26-5)

Reason Code: MPT

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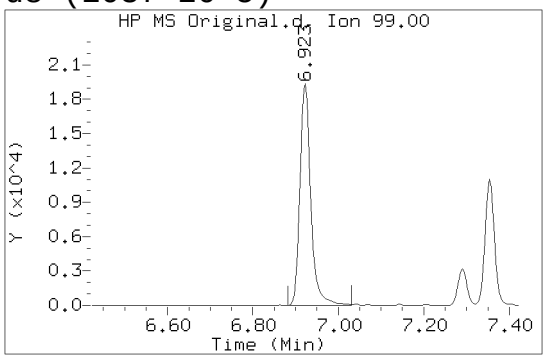

AFTER

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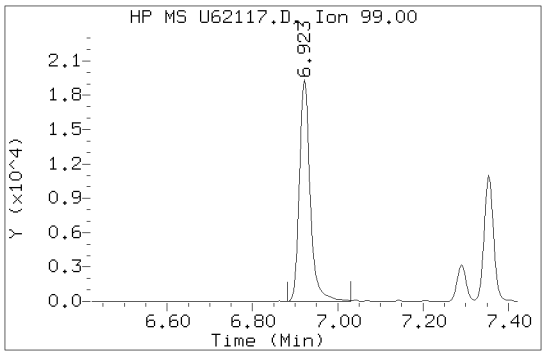

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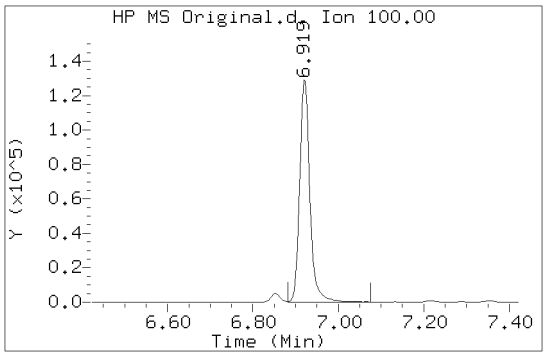

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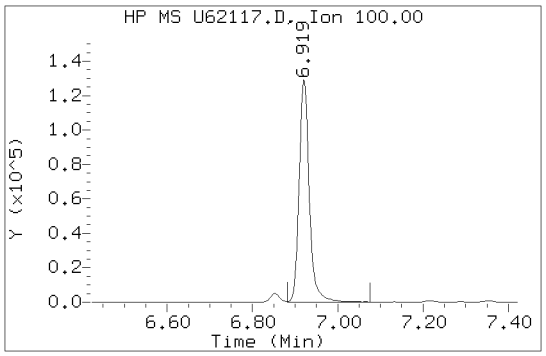

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Report Date: 22-Jul-2024 14:24

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62118.D
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Inj Date : 21-JUN-2024 15:55
Operator : TS Inst ID: VOA9.i
Smp Info : HS24060747-08MSD;HS24060747-08MSD;3;;MSD
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240621.b\8260C.m
Meth Date : 22-Jul-2024 14:24 VOA9.i Quant Type: ISTD
Cal Date : 20-JUN-2024 14:15 Cal File: U62010.D
Als bottle: 16 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7014

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)	233942	50.0000	
2 Dichlorodifluoromethane	85	1.171	1.168	(0.243)	31989	19.1465	19.14
3 Chloromethane	50	1.303	1.299	(0.270)	76978	19.6450	19.64
4 Propionitrile	54	4.339	4.332	(0.900)	31774	143.909	143.90(a)
5 Vinyl Chloride	62	1.385	1.378	(0.288)	33535	16.2547	16.25
6 Bromomethane	94	1.614	1.610	(0.335)	13741	16.5458	16.54
7 Chloroethane	64	1.704	1.696	(0.354)	20019	14.7701	14.77
8 Trichlorofluoromethane	101	1.899	1.895	(0.394)	39817	17.7701	17.77
9 Acrolein	56	2.270	2.262	(0.471)	1660	18.3061	18.30(a)
10 Acetone	43	2.416	2.405	(0.501)	14293	17.9457	17.94
11 1,1-Dichloroethene	96	2.337	2.330	(0.485)	21725	15.9186	15.91
12 Isobutyl Alcohol	43	5.284	5.284	(1.096)	64894	280.992	280.99(a)
13 Acetonitrile	39	2.675	2.671	(0.555)	21484	112.273	112.27(a)
14 Allyl Chloride	41	2.675	2.671	(0.555)	48809	11.1145	11.11(a)
15 Iodomethane	142	2.468	2.465	(0.512)	10084	20.4255	20.42
16 Acrylonitrile	53	3.072	3.065	(0.638)	13561	23.3716	23.37
17 Methylene Chloride	84	2.798	2.795	(0.581)	25478	14.0960	14.09
18 Methyl tert-butyl ether	73	3.083	3.076	(0.640)	50970	12.9817	12.98
19 Carbon Disulfide	76	2.525	2.521	(0.524)	118973	31.6334	31.63
20 trans-1,2-Dichloroethene	96	3.061	3.057	(0.635)	23784	16.2412	16.24

21 Vinyl Acetate	43	4.343	4.335 (0.901)	25158	30.6115	30.61
22 1,1-Dichloroethane	63	3.514	3.511 (0.729)	42230	15.0524	15.05

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62118.D Page 2
Report Date: 22-Jul-2024 14:24

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	23 Chloroprene	53	3.612	3.608	(0.750)	36819	15.6945	15.69
	24 2-Butanone	43	4.268	4.260	(0.886)	23722	29.3569	29.35
	25 Methacrylonitrile	41	4.497	4.489	(0.933)	13133	13.4037	13.40(a)
	26 2,2-Dichloropropane	77	4.182	4.182	(0.868)	36584	17.3491	17.34
	27 cis-1,2-Dichloroethene	96	4.197	4.193	(0.871)	29975	17.4840	17.48
	28 Chloroform	83	4.575	4.572	(0.949)	50898	17.8453	17.84
	29 Bromochloromethane	128	4.470	4.467	(0.928)	15773	16.8413	16.84
$	30 Dibromofluoromethane	113	4.748	4.748	(0.985)	83118	53.4880	53.48
	31 1,1,1-Trichloroethane	97	4.744	4.740	(0.984)	41070	18.9090	18.90
	32 1,1-Dichloropropene	75	4.924	4.920	(0.887)	38062	18.8173	18.81
	33 1,2-Dichloroethane	62	5.179	5.175	(0.933)	39012	17.4113	17.41
	34 Carbon Tetrachloride	117	4.913	4.909	(0.885)	32080	18.9225	18.92
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	97724	49.3059	49.30
*	36 1,4-Difluorobenzene	114	5.554	5.550	(1.000)	331583	50.0000	
	37 Benzene	78	5.141	5.138	(0.926)	115644	16.9462	16.94
	38 Trichloroethene	130	5.790	5.786	(1.043)	32021	19.3354	19.33
	39 Bromodichloromethane	83	6.277	6.277	(1.130)	33281	17.2553	17.25
	40 Methyl Methacrylate	41	5.824	5.820	(1.208)	7375	12.0469	12.04(a)
	41 2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	626	22.4876	22.48(M)
	42 1,2-Dichloropropane	63	6.011	6.007	(1.082)	30395	16.8158	16.81
	43 2-Nitropropane	43	6.510	6.506	(1.351)	4379	11.8389	11.83
	44 Dibromomethane	93	6.120	6.116	(1.102)	17953	17.0162	17.01
	45 4-Methyl-2-Pentanone	43	6.854	6.851	(0.837)	49558	30.2913	30.29
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	36548	16.2186	16.21
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	296863	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	319024	55.3664	55.36(M)
	49 Ethyl Methacrylate	69	7.289	7.289	(1.312)	28675	13.6170	13.61(a)
	50 Toluene	91	6.982	6.982	(0.853)	125145	18.5148	18.51
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	29977	16.2392	16.23
	52 2-Hexanone	43	7.214	7.214	(0.881)	31116	27.6844	27.68
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	22371	17.1164	17.11
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	46625	16.9739	16.97
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	25053	18.3723	18.37
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	26118	20.6464	20.64
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	24565	17.0269	17.02
	58 1-Chlorohexane	55	8.196	8.197	(1.476)	22631	17.2520	17.25
	59 Chlorobenzene	112	8.211	8.212	(1.003)	81546	19.3728	19.37
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	25989	17.8973	17.89
	61 Ethylbenzene	106	8.305	8.309	(1.015)	39551	18.9076	18.90
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	98136	39.2948	39.29
	63 o-Xylene	106	8.748	8.748	(1.069)	48479	19.6983	19.69
	64 Styrene	104	8.763	8.763	(1.071)	73852	17.9486	17.94
	66 Bromoform	173	8.920	8.920	(1.090)	14610	16.8091	16.80
	67 Isopropylbenzene	105	9.062	9.062	(1.107)	123270	20.1886	20.18
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	35817	17.0936	17.09
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	122169	53.9623	53.96
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	167781	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	34020	16.6562	16.65
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	6406	15.4426	15.44(a)
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	138211	19.0498	19.04
	74 Bromobenzene	156	9.317	9.317	(0.916)	35754	18.1379	18.13
	75 1,3,5-Trimethylbenzene	105	9.565	9.565	(0.940)	88485	17.1534	17.15

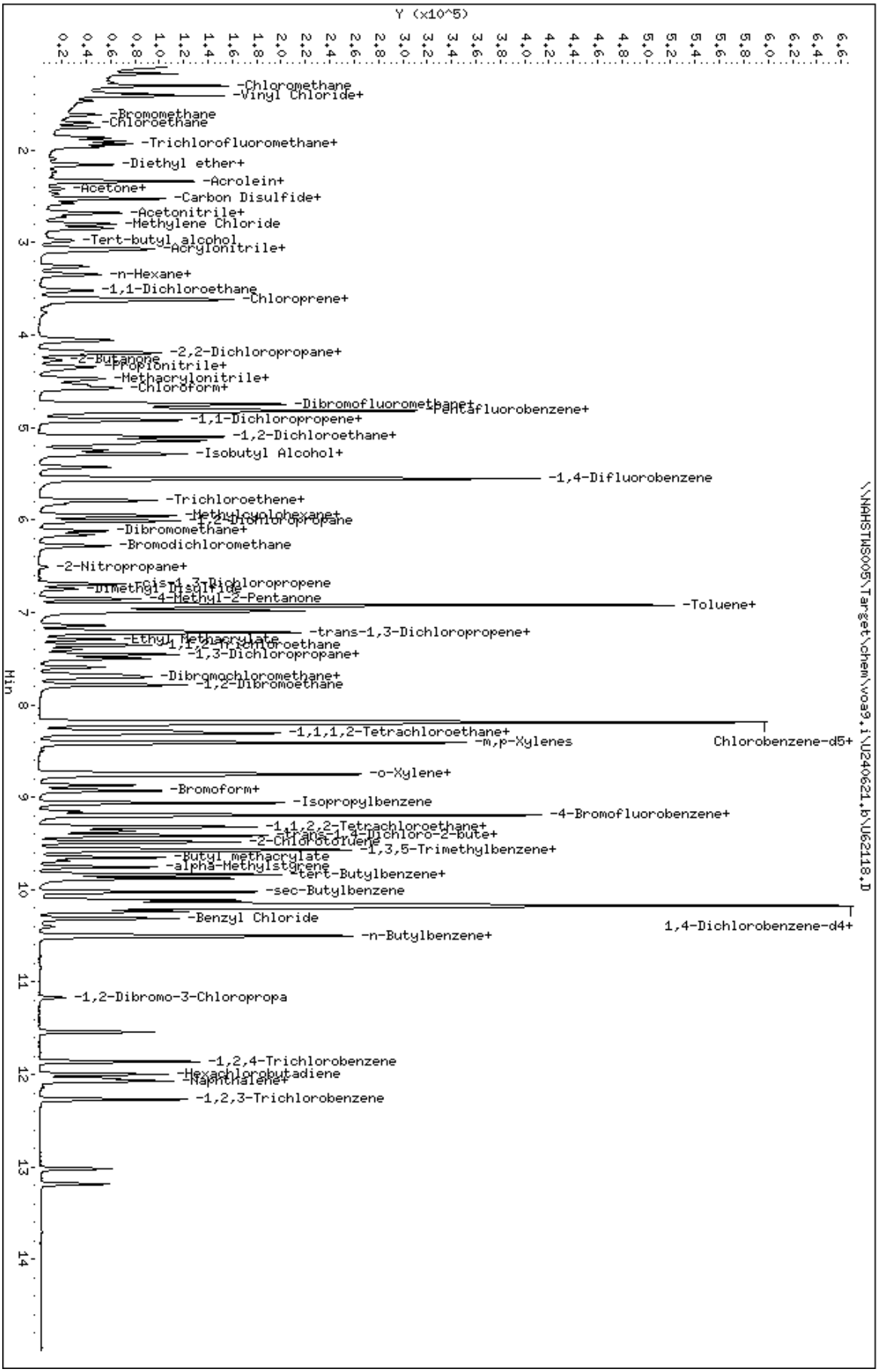
76	2-Chlorotoluene	91	9.482	9.482 (0.932)	90054	18.3412	18.34
77	4-Chlorotoluene	91	9.576	9.576 (0.941)	99946	17.9361	17.93

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62118.D Page 3
Report Date: 22-Jul-2024 14:24

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
78	tert-Butylbenzene	119	9.838	9.838	(0.967)	90153	20.3878	20.38
79	1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	86159	16.1375	16.13
81	sec-Butylbenzene	105	10.022	10.022	(0.985)	115695	19.6459	19.64
82	p-Isopropyltoluene	119	10.146	10.150	(0.997)	93788	17.6311	17.63
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	63955	17.6324	17.63
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	66044	18.6253	18.62
86	Benzyl Chloride	91	10.311	10.311	(1.260)	75951	25.5791	25.57
87	n-Butylbenzene	91	10.494	10.494	(1.032)	86480	18.0434	18.04
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	62644	17.3464	17.34
89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	4529	18.1474	18.14
90	1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	40096	18.3516	18.35
91	Hexachlorobutadiene	225	11.998	12.001	(1.179)	19739	20.3749	20.37
92	Naphthalene	128	12.069	12.069	(1.186)	75255	16.1445	16.14
93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	37224	18.6067	18.60
146	Methyl acetate	43	2.716	2.712	(0.564)	17133	12.3012	12.30
138	Freon TF	101	2.337	2.334	(0.485)	22424	17.5165	17.51
141	Cyclohexane	56	4.785	4.781	(0.993)	43244	18.5760	18.57
142	Tetrahydrofuran	42	4.545	4.538	(0.943)	7742	27.9433	27.94
147	Methylcyclohexane	55	5.947	5.947	(1.071)	53131	15.0900	15.09
135	1,4-Dioxane	88	6.168	6.168	(1.280)	5168	270.980	270.97
132	n-Butanol	56	5.827	5.820	(1.209)	11142	268.093	268.09(a)
136	n-Hexane	57	3.346	3.342	(0.694)	24591	16.3937	16.39
139	Diethyl ether	59	2.150	2.142	(0.446)	13906	11.5135	11.51
148	Tert-butyl alcohol	59	2.978	2.963	(0.618)	31521	225.789	225.78
149	Isopropyl alcohol	45	2.573	2.562	(0.534)	23042	211.809	211.80
156	Diisopropyl ether	45	3.627	3.619	(0.753)	67339	11.9340	11.93
162	Butyl acrylate	55	8.733	8.733	(1.067)	38801	14.1991	14.19
164	Dicyclopentadiene	66	10.202	10.202	(1.003)	106792	14.7008	14.70
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	63957	13.3280	13.32
167	Ethanol	45	2.094	2.086	(0.435)	4823	225.752	225.75
172	tert-Butyl formate	59	5.243	5.239	(1.088)	33826	30.8791	30.87
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.299)	111335	243.469	243.46
140	1,3-Butadiene	54	1.408	1.404	(0.292)	32842	16.3488	16.34
M 94	1,2-Dichloroethylene (total)	96				53759	33.8327	33.83
M 95	Xylenes (total)	106				146615	58.1980	58.19
145	alpha-Methylstyrene	118	9.756	9.756	(0.959)	26744	14.7342	14.73
131	Methyl Acrylate	55	4.373	4.365	(0.907)	24840	12.8122	12.81
189	n-Butyl acetate	43	7.705	7.705	(0.941)	35965	15.1952	15.19
134	Cyclohexanone	55	9.152	9.152	(0.900)	14327	161.549	161.54(a)
185	Isoprene	39	2.161	2.154	(0.449)	4841	14.2522	14.25
188	Isopropyl acetate	43	5.284	5.284	(0.951)	64894	14.6359	14.63
150	Allyl alcohol	57	3.346	3.342	(0.694)	24591	327.873	327.87
200	Dimethyl Disulfide	94	6.746	6.746	(0.824)	12911	13.9669	13.96
133	Ethyl Acrylate	55	5.947	5.947	(1.234)	53131	14.4379	14.43
163	Butyl methacrylate	41	9.651	9.651	(0.949)	26407	15.1078	15.10
203	2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	22049	13.5734	13.57
204	Tetrahydrothiophene	60	7.672	7.672	(0.937)	23108	13.6977	13.69(A)
205	sec-Butyl Ether	57	7.218	7.218	(0.882)	26347	7.94324	7.94(A)
187	n-Amyl acetate	43	8.931	8.931	(1.091)	41346	15.7434	15.74
206	2-Chloropropene	41	1.929	1.925	(0.400)	41103	17.1148	17.11(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.



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Sample Info: HS24060747-08HSD;HS24060747-08HSD;3;;HSD
Purge Volume: 5.0
Column phase: DB624

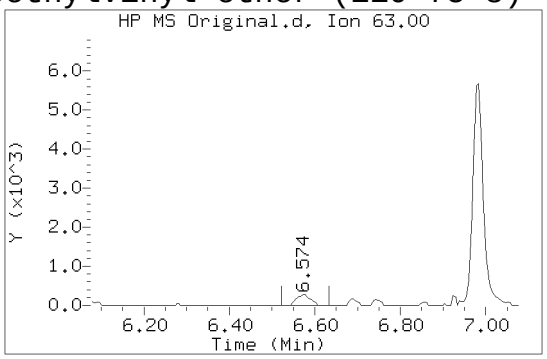
Instrument: VOA9,i
Operator: TS
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62118.D
Inj Date : 21-JUN-2024 15:55
InstruID : VOA9.i
LabSampID : HS24060747-08MSD

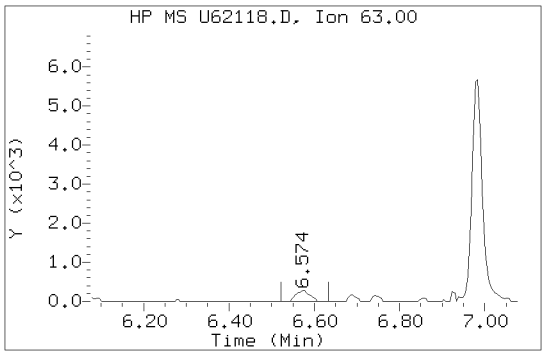
2-Chloroethylvinyl ether (110-75-8)

Reason Code:

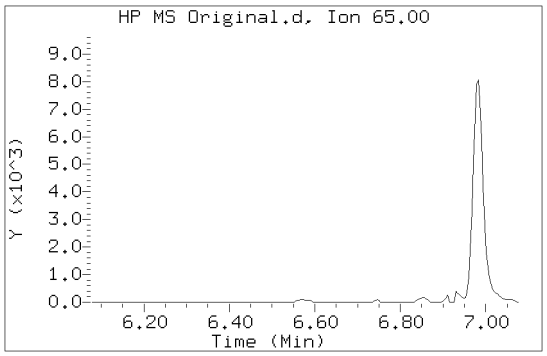
BEFORE
MASS
63
AREA
626
HEIGHT
280
22-Jul-2024
14:23
r
patel



AFTER
MASS
63
AREA
626
HEIGHT
280
22-Jul-2024
14:23
r
patel



BEFORE
MASS
65
AREA
0
HEIGHT
0
22-Jul-2024
14:23
r
patel



AFTER
MASS
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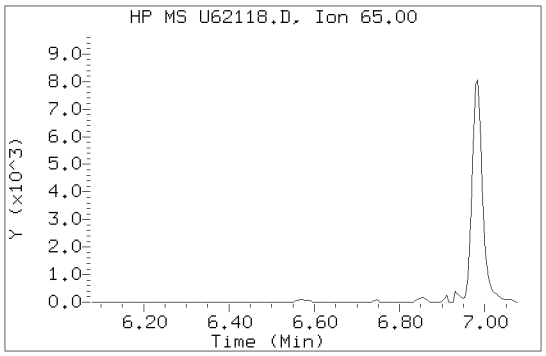
AREA
0
HEIGHT
0
22-Jul-2024
14:23
r
patel



BEFORE
MASS
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AREA
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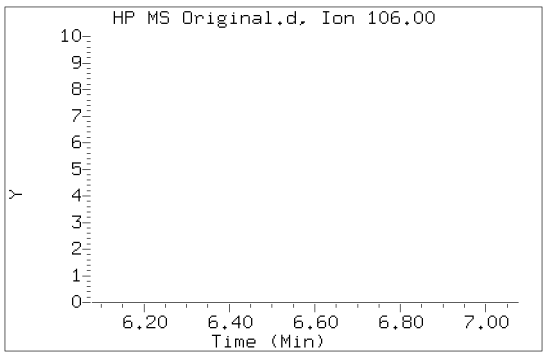
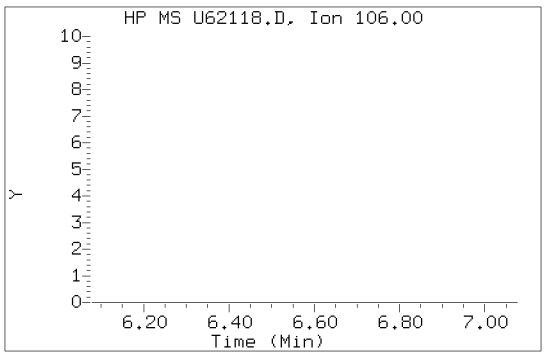
HEIGHT
0
22-Jul-2024
14:23
r
patel



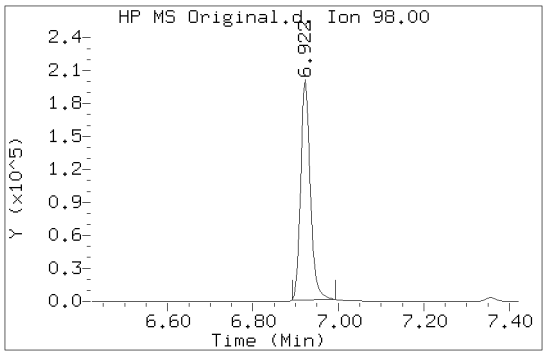
AFTER
MASS
106
AREA
0
HEIGHT
0
22-Jul-2024
14:23
r
patel



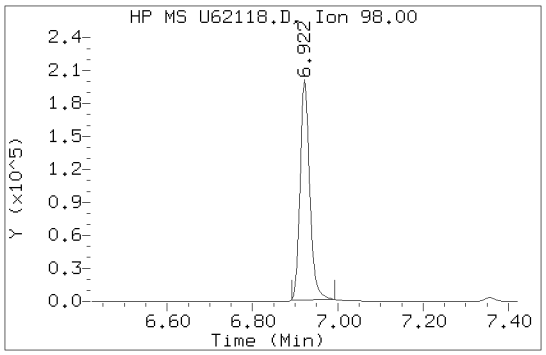
Toluene-d8 (2037-26-5)

Reason Code: MPT

BEFORE
MASS
98
AREA
319024
HEIGHT
200197
22-Jul-2024
14:23
r
patel



AFTER
MASS
98
AREA
319024
HEIGHT
200197
22-Jul-2024
14:23
r
patel



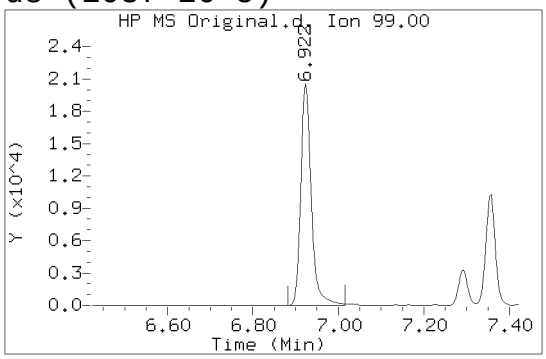
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62118.D
Inj Date : 21-JUN-2024 15:55
InstruID : VOA9.i
LabSampID : HS24060747-08MSD

Toluene-d8 (2037-26-5)

Reason Code: MPT

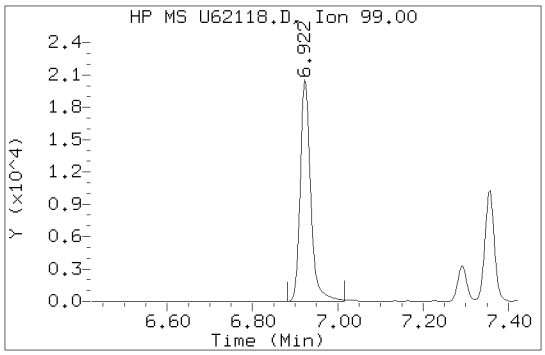
BEFORE

MASS
99
AREA
35653
HEIGHT
20560
22-Jul-2024
14:23
r
patel



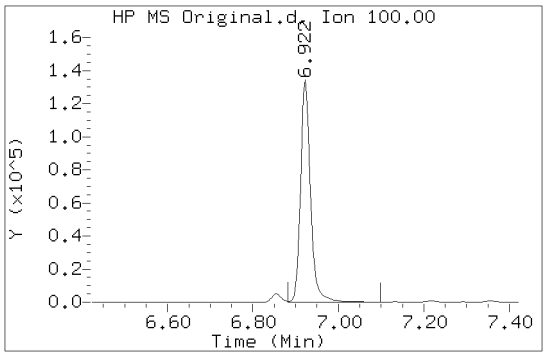
AFTER

MASS
99
AREA
35653
HEIGHT
20560
22-Jul-2024
14:23
r
patel



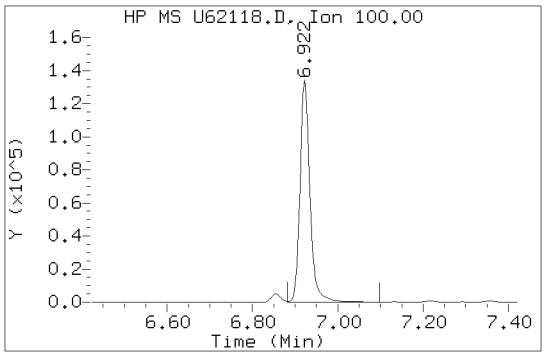
BEFORE

MASS
100
AREA
221085
HEIGHT
134372
22-Jul-2024
14:23
r
patel



AFTER

MASS
100
AREA
221085
HEIGHT
134372
22-Jul-2024
14:23
r
patel



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62119.D Page 1
Report Date: 22-Jul-2024 14:24

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62119.D
Lab Smp Id: HS24060747-07
Inj Date : 21-JUN-2024 16:16
Operator : TS   Inst ID: VOA9.i
Smp Info : HS24060747-07
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240621.b\8260C.m
Meth Date : 22-Jul-2024 14:24 VOA9.i   Quant Type: ISTD
Cal Date : 20-JUN-2024 14:15   Cal File: U62010.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7014

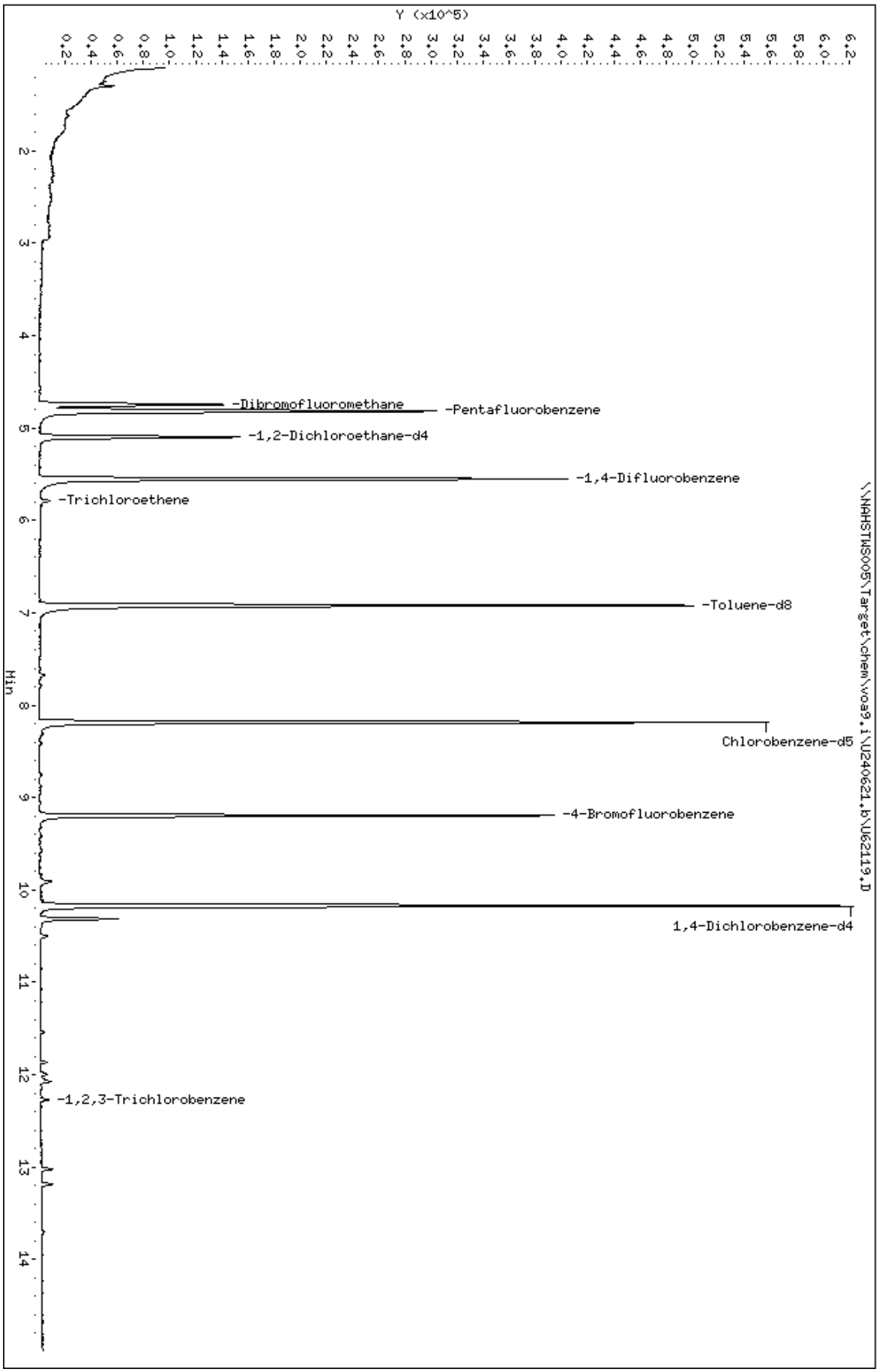
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

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)	232387	50.0000	
$ 30 Dibromofluoromethane	113	4.748	4.748	(0.986)	82984	53.7591	53.75
$ 35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	101215	51.4090	51.40
* 36 1,4-Difluorobenzene	114	5.554	5.550	(1.000)	333976	50.0000	
38 Trichloroethene	130	5.786	5.786	(1.042)	2531	1.51736	1.51(aH)
* 47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	303319	50.0000	
$ 48 Toluene-d8	98	6.922	6.922	(0.846)	325128	55.2247	55.22
$ 69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	116193	50.2303	50.23
* 70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	162175	50.0000	
93 1,2,3-Trichlorobenzene	180	12.275	12.271	(1.207)	2202	1.13874	1.13(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\U240621.b\U62119.D
Date : 21-JUN-2024 16:16
Client ID:
Sample Info: HS24060747-07
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62119.D Page 2

Date : 21-JUN-2024 16:16

Client ID:

Instrument: VOA9.i

Sample Info: HS24060747-07

Purge Volume: 5.0

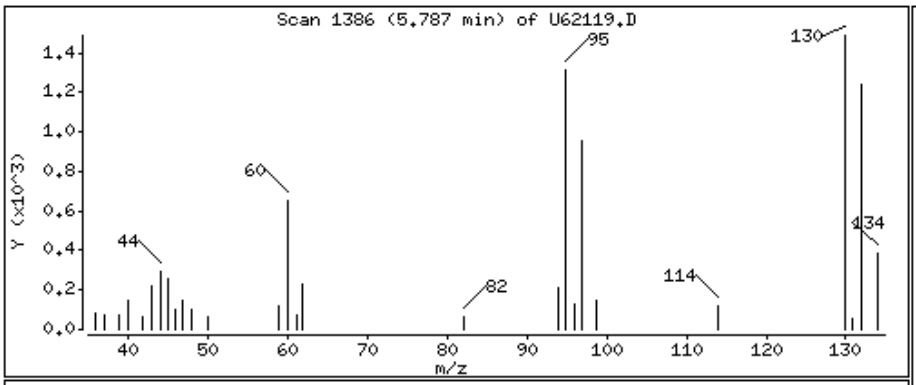
Operator: TS

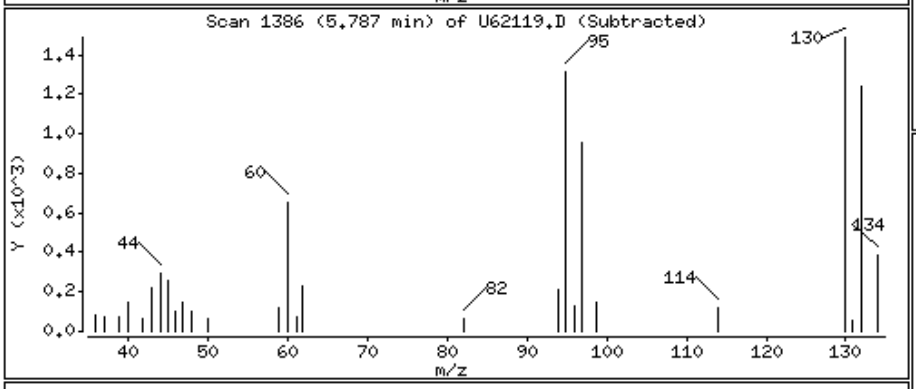
Column phase: DB624

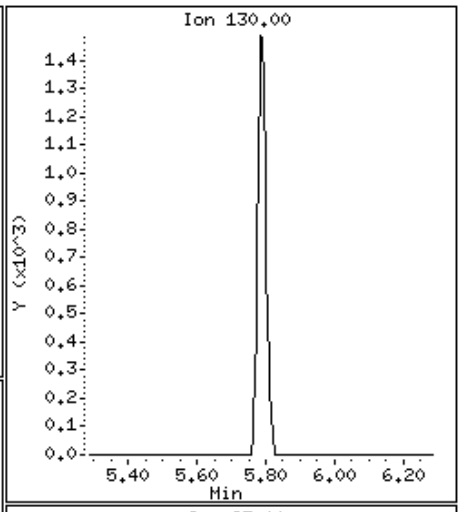
Column diameter: 0.18

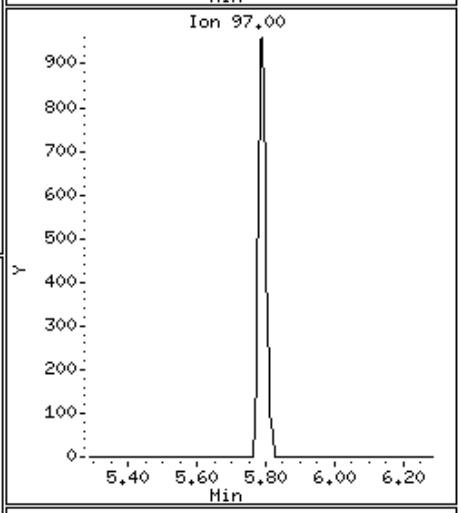
38 Trichloroethene

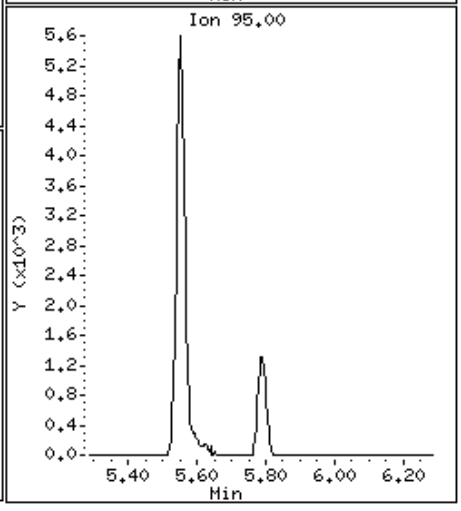
Concentration: 1.51 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62119.D

Date : 21-JUN-2024 16:16

Client ID:

Instrument: VOA9.i

Sample Info: HS24060747-07

Purge Volume: 5.0

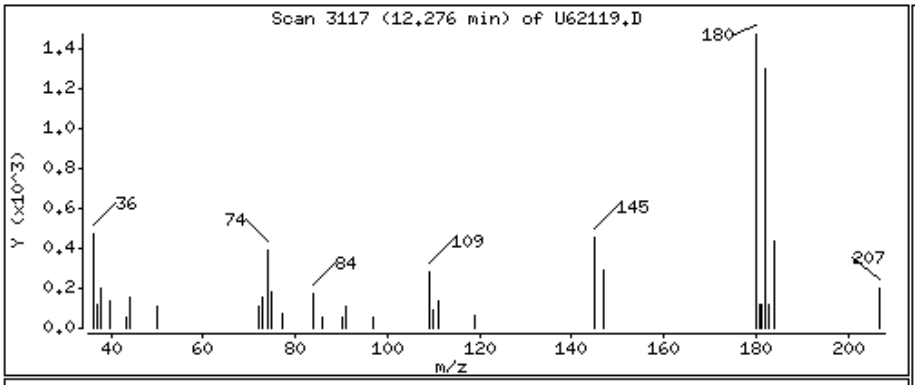
Operator: TS

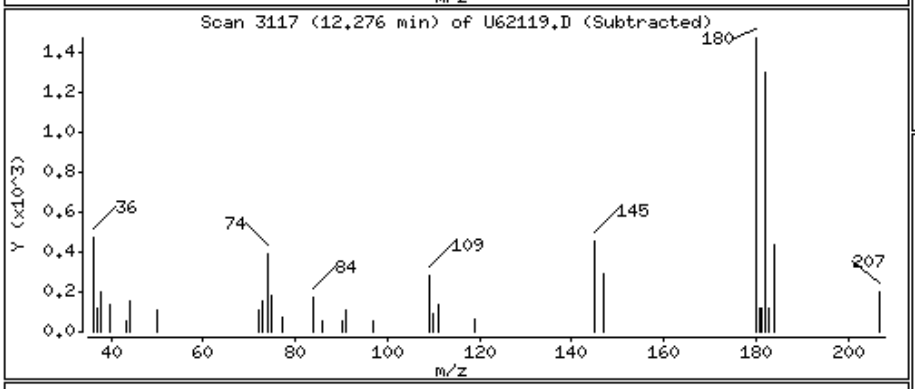
Column phase: DB624

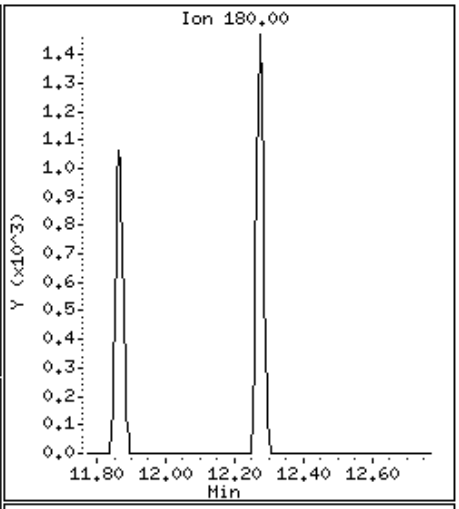
Column diameter: 0.18

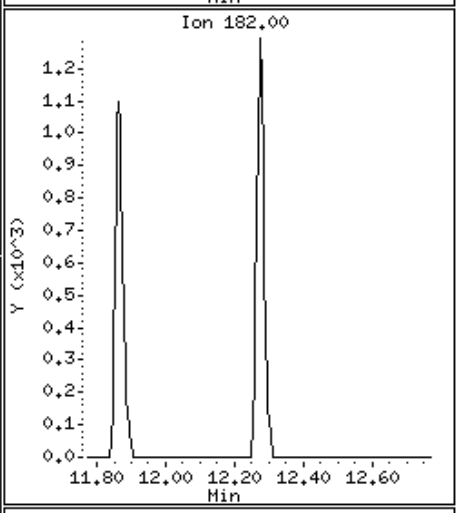
93 1,2,3-Trichlorobenzene

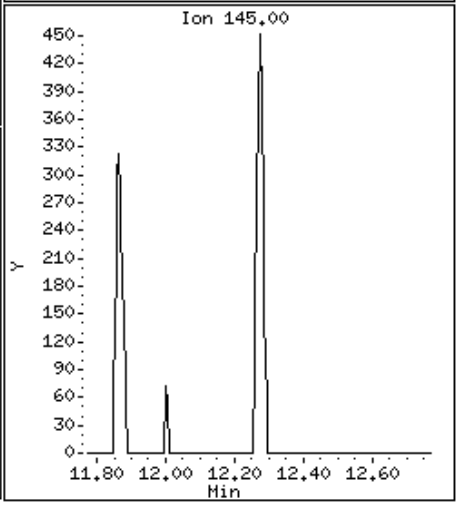
Concentration: 1.13 ug/l











Data File : \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62119.D
Inj Date : 21-JUN-2024 16:16
InstruID : VOA9.i
LabSampID : HS24060747-07

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62120.D Page 1
Report Date: 22-Jul-2024 15:30

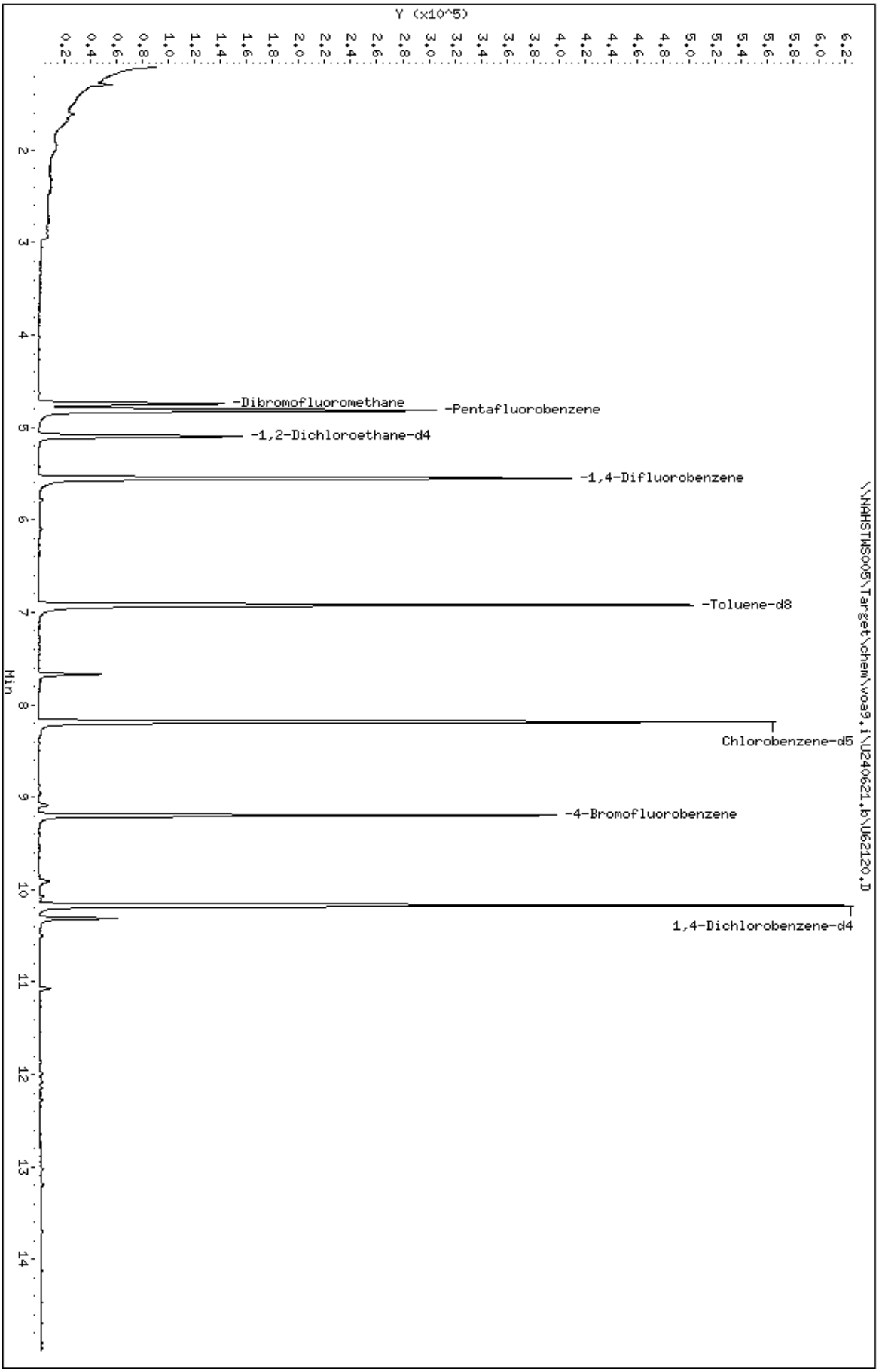
ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62120.D
Lab Smp Id: HS24060747-09
Inj Date : 21-JUN-2024 16:38
Operator : TS   Inst ID: VOA9.i
Smp Info : HS24060747-09
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240621.b\8260C.m
Meth Date : 22-Jul-2024 15:24 r.patel   Quant Type: ISTD
Cal Date : 20-JUN-2024 14:15   Cal File: U62010.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7014

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)	232800	50.0000	
$ 30 Dibromofluoromethane	113	4.744	4.744	(0.986)	82275	53.2053	53.20
$ 35 1,2-Dichloroethane-d4	65	5.093	5.093	(1.058)	102760	52.1011	52.10
* 36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	335325	50.0000	
* 47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	309501	50.0000	
$ 48 Toluene-d8	98	6.922	6.922	(0.846)	324951	54.0922	54.09
$ 69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	116247	49.2499	49.24
* 70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	165657	50.0000	



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Date : 21-JUN-2024 16:38
Client ID:
Sample Info: HS240620747-09
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: TS
Column diameter: 0.18

Page 1

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62120.D
Inj Date : 21-JUN-2024 16:38
InstruID : VOA9.i
LabSampID : HS24060747-09

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62121.D Page 1
Report Date: 22-Jul-2024 15:25

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62121.D
Lab Smp Id: HS24060747-03
Inj Date : 21-JUN-2024 17:02
Operator : TS   Inst ID: VOA9.i
Smp Info : HS24060747-03
Misc Info : V9;WATER;0;10;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240621.b\8260C.m
Meth Date : 22-Jul-2024 15:24 r.patel   Quant Type: ISTD
Cal Date : 20-JUN-2024 14:15   Cal File: U62010.D
Als bottle: 19
Dil Factor: 10.00000
Integrator: HP RTE   Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7014

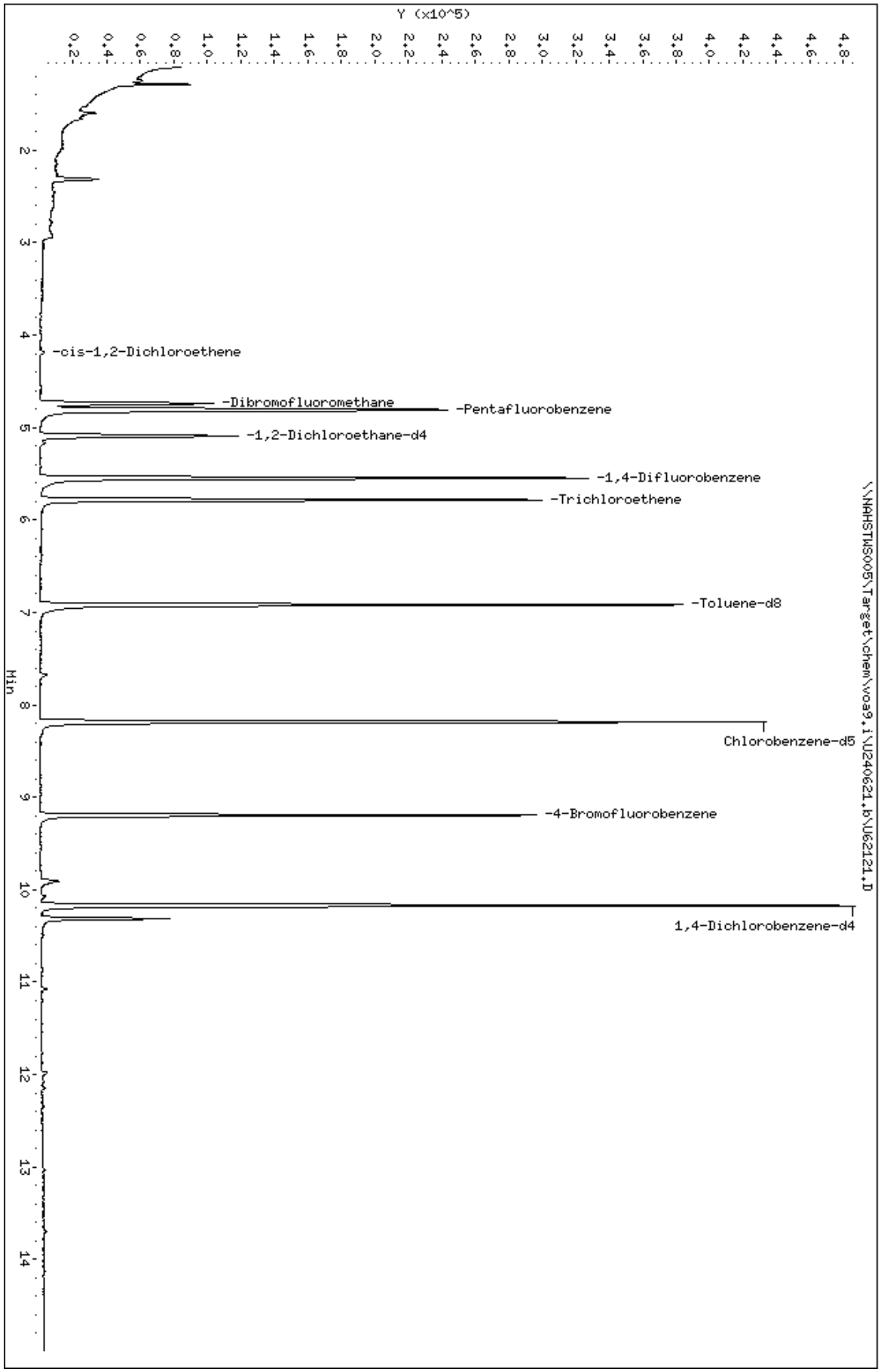
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

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	4.808	4.815	(1.000)	186968	50.0000	
	27 cis-1,2-Dichloroethene	96	4.185	4.193	(0.871)	1222	0.53260	5.32
$	30 Dibromofluoromethane	113	4.740	4.744	(0.986)	59746	48.1073	48.10
$	35 1,2-Dichloroethane-d4	65	5.089	5.093	(1.058)	76632	48.3781	48.37
*	36 1,4-Difluorobenzene	114	5.546	5.550	(1.000)	266287	50.0000	
	38 Trichloroethene	130	5.782	5.786	(1.043)	98394	73.9826	739.82
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	240462	50.0000	
$	48 Toluene-d8	98	6.918	6.922	(0.845)	240996	51.6347	51.63
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	86941	47.4094	47.40
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	126902	50.0000	
M	94 1,2-Dichloroethylene (total)	96				1222	0.00653	0.06(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62121.D
Date : 21-JUN-2024 17:02
Client ID:
Sample Info: HS24060747-03
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62121.D

Date : 21-JUN-2024 17:02

Client ID:

Instrument: VOA9.i

Sample Info: HS24060747-03

Purge Volume: 5.0

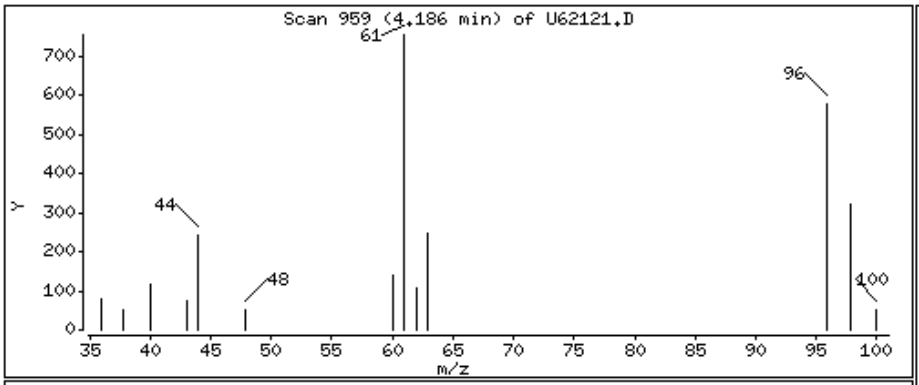
Operator: TS

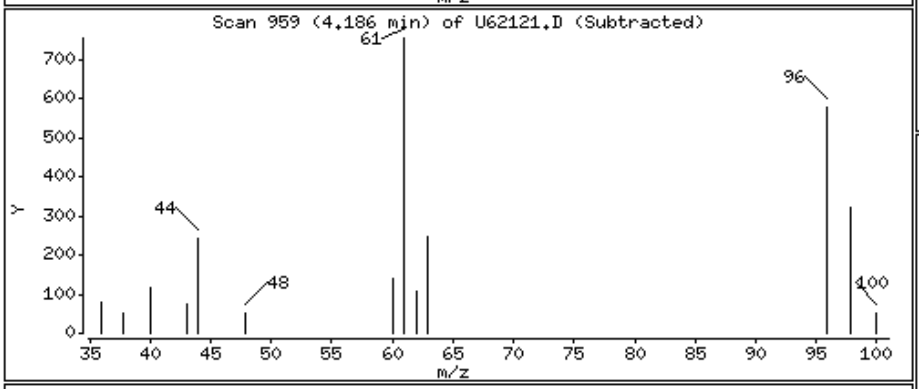
Column phase: DB624

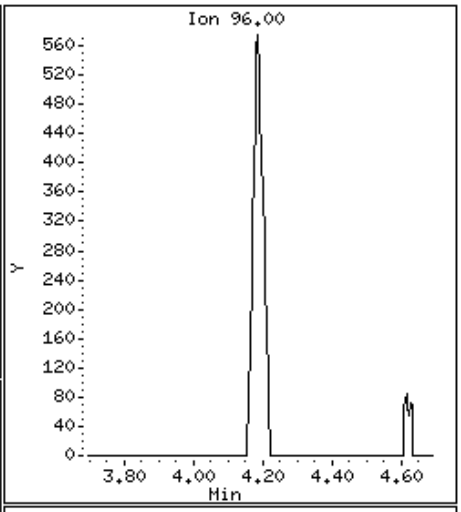
Column diameter: 0.18

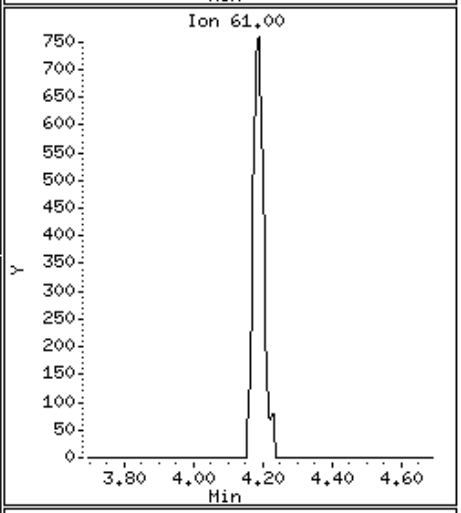
27 cis-1,2-Dichloroethene

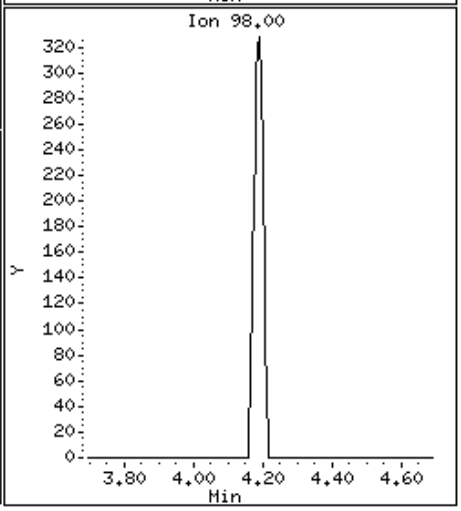
Concentration: 5.32 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62121.D Page 3

Date : 21-JUN-2024 17:02

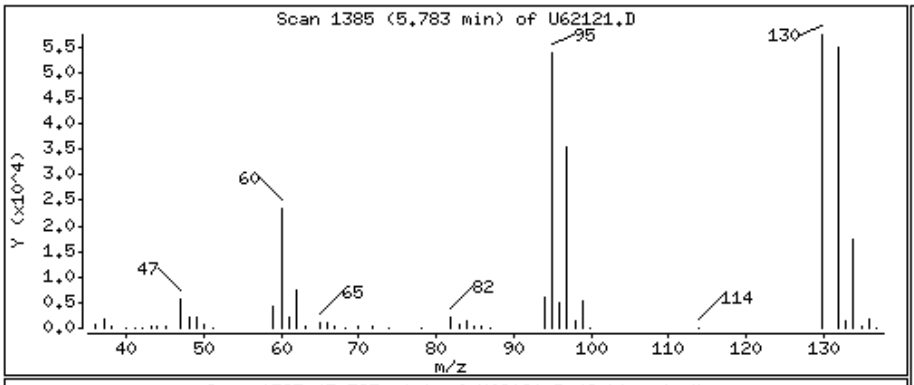
Client ID: Instrument: VOA9.i

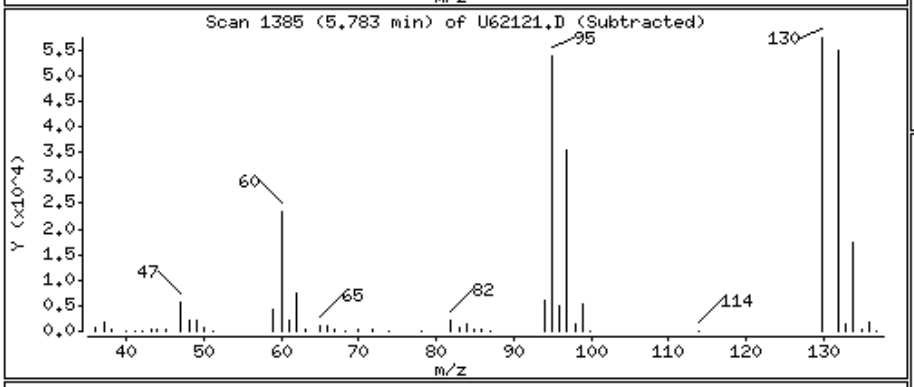
Sample Info: HS24060747-03

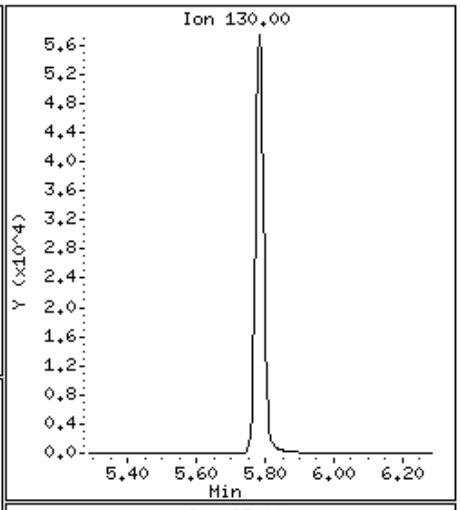
Purge Volume: 5.0 Operator: TS

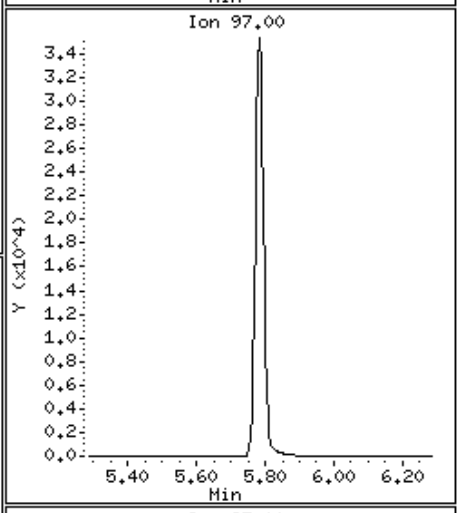
Column phase: DB624 Column diameter: 0.18

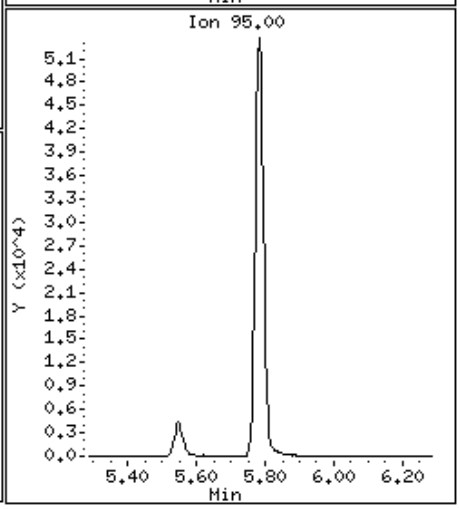
38 Trichloroethene Concentration: 739.82 ug/l











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Inj Date : 21-JUN-2024 17:02
InstruID : VOA9.i
LabSampID : HS24060747-03

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62122.D Page 1
Report Date: 22-Jul-2024 14:24

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62122.D
Lab Smp Id: HS24060747-01
Inj Date : 21-JUN-2024 17:23
Operator : TS   Inst ID: VOA9.i
Smp Info : HS24060747-01
Misc Info : V9;WATER;0;100;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240621.b\8260C.m
Meth Date : 22-Jul-2024 14:24 VOA9.i   Quant Type: ISTD
Cal Date : 20-JUN-2024 14:15   Cal File: U62010.D
Als bottle: 20
Dil Factor: 100.00000
Integrator: HP RTE   Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7014

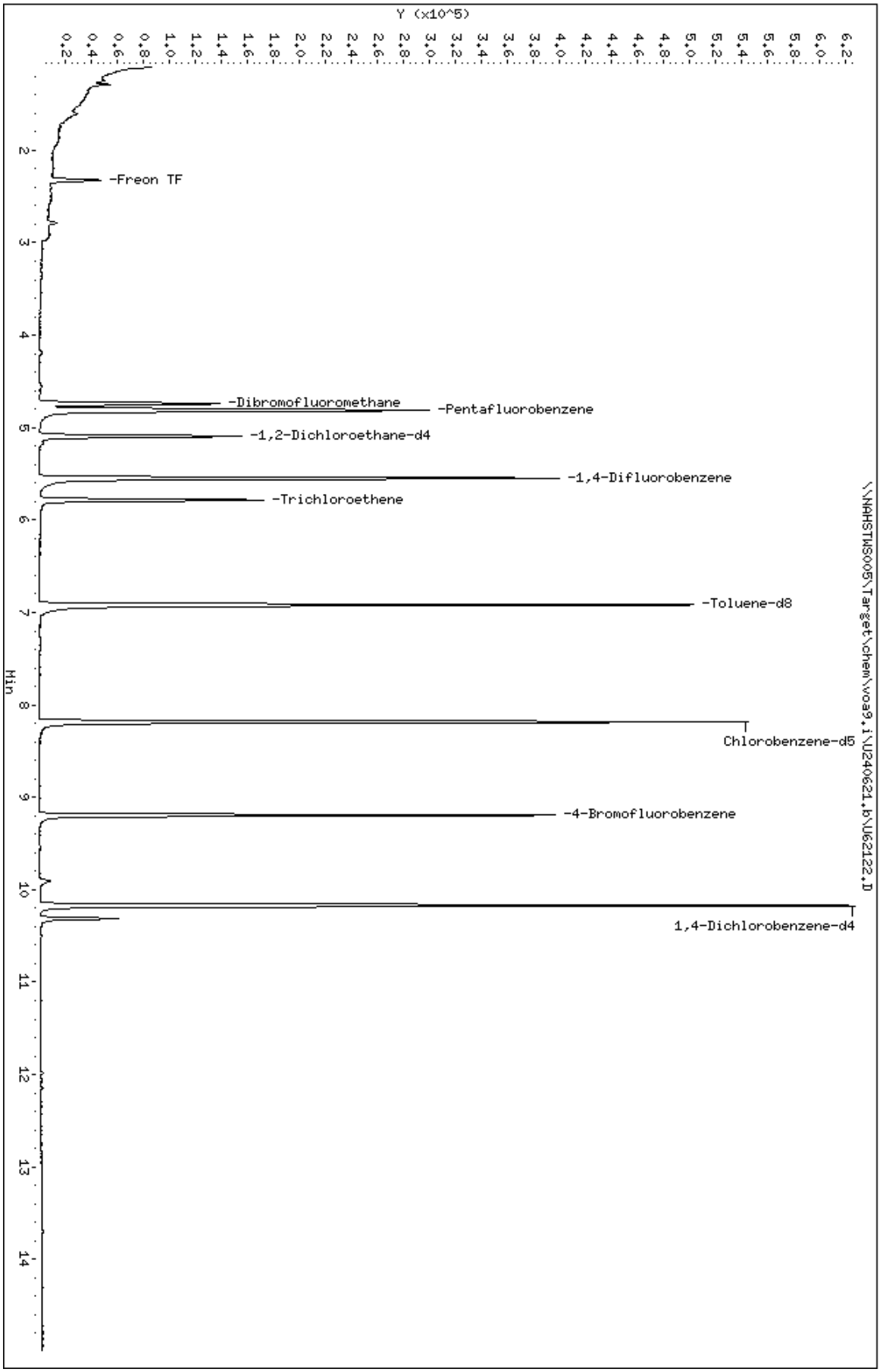
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

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	4.811	4.815	(1.000)	230336	50.0000	
$ 30 Dibromofluoromethane	113	4.740	4.748	(0.985)	81946	53.5594	53.55
$ 35 1,2-Dichloroethane-d4	65	5.093	5.096	(1.058)	101068	51.7914	51.79
* 36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	331777	50.0000	
38 Trichloroethene	130	5.786	5.786	(1.043)	57231	34.5379	3453.79
* 47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	305416	50.0000	
$ 48 Toluene-d8	98	6.918	6.922	(0.845)	323886	54.6360	54.63
$ 69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	117402	50.4045	50.40
* 70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	166967	50.0000	
138 Freon TF	101	2.326	2.334	(0.483)	15201	11.8956	1189.56

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62122.D
Date : 21-JUN-2024 17:23
Client ID:
Sample Info: HS24060747-01
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62122.D Page 2

Date : 21-JUN-2024 17:23

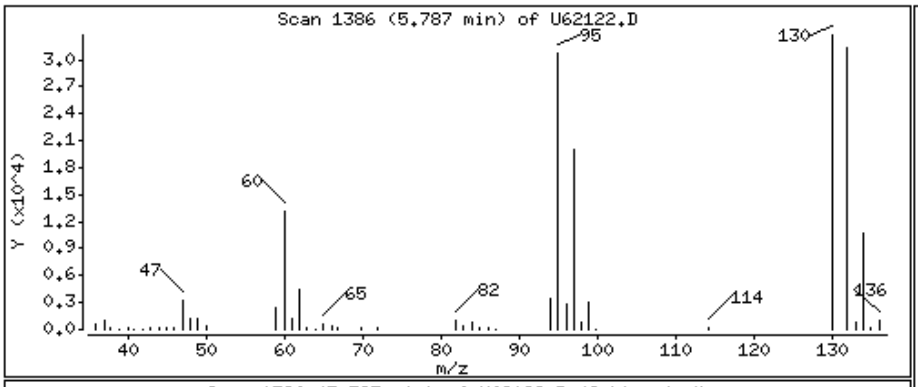
Client ID: Instrument: VOA9.i

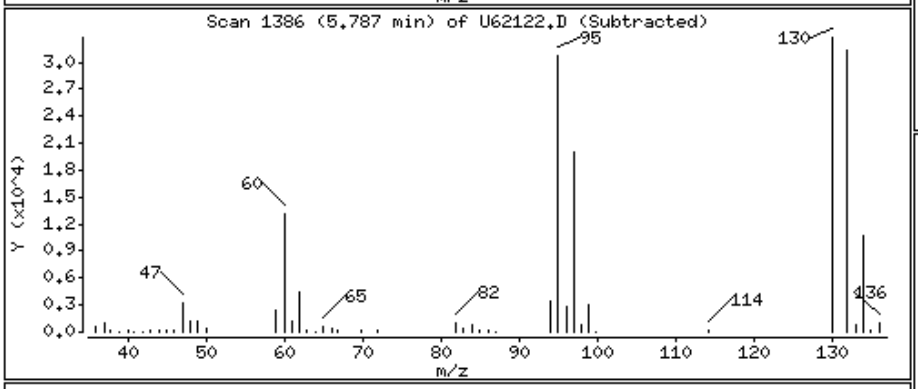
Sample Info: HS24060747-01

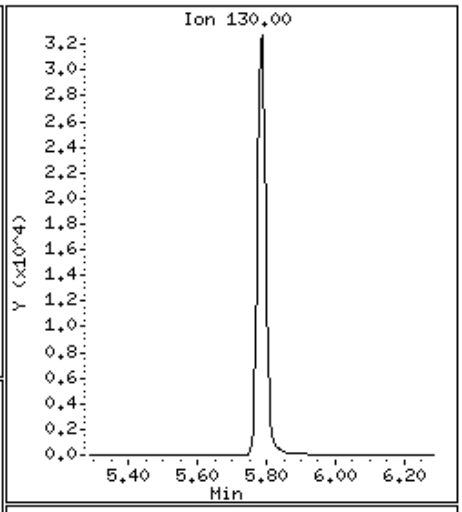
Purge Volume: 5.0 Operator: TS

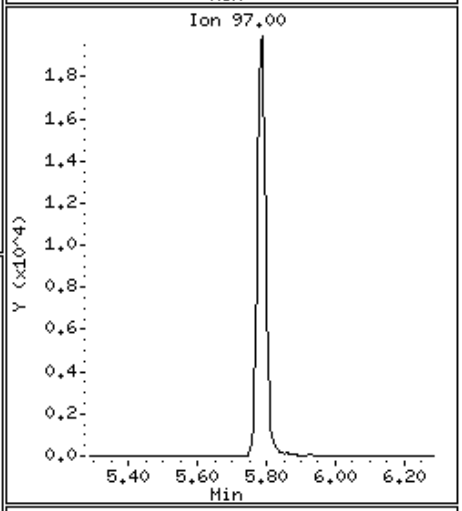
Column phase: DB624 Column diameter: 0.18

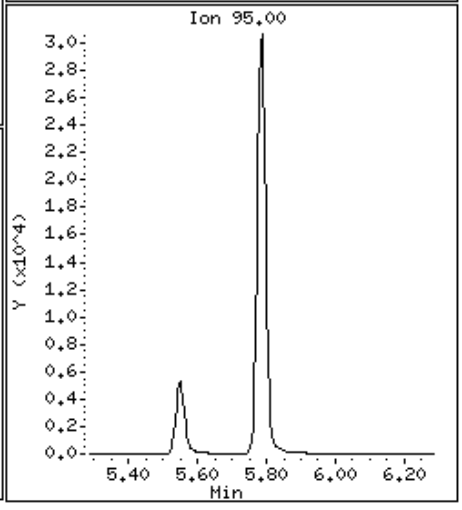
38 Trichloroethene Concentration: 3453.79 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62122.D Page 3

Date : 21-JUN-2024 17:23

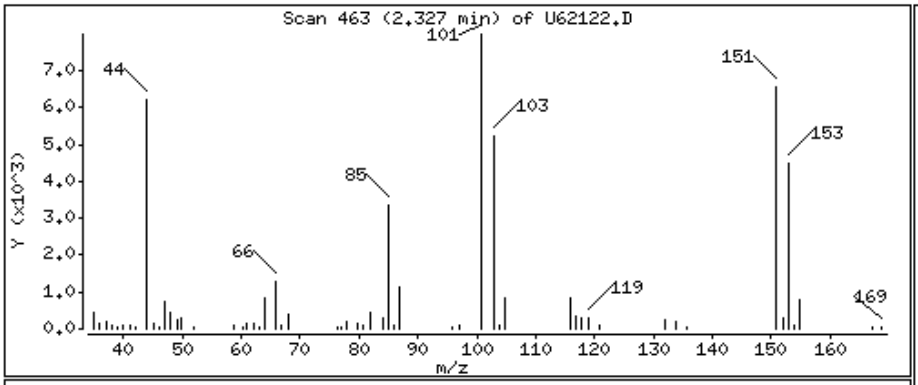
Client ID: Instrument: VOA9.i

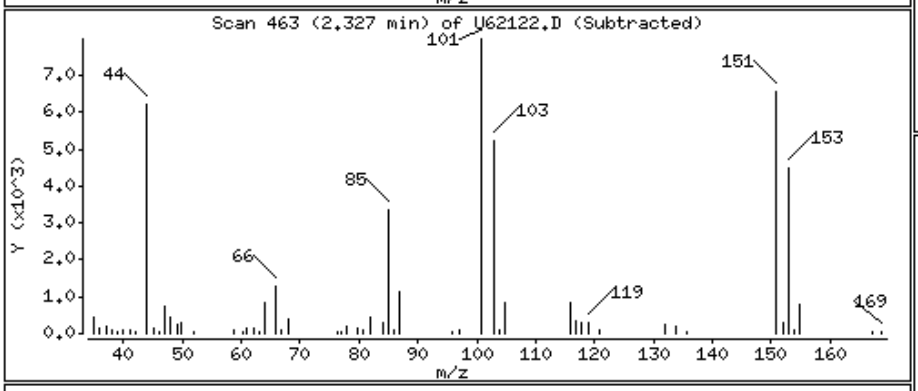
Sample Info: HS24060747-01

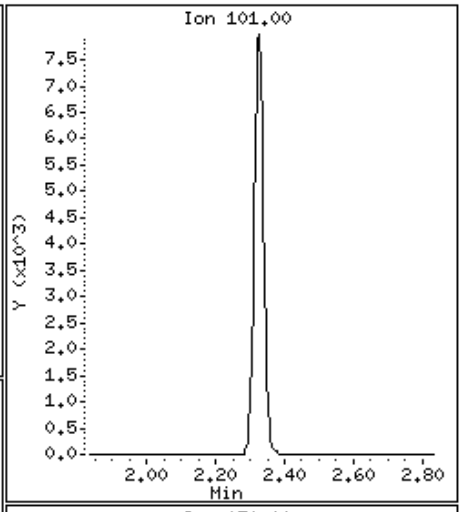
Purge Volume: 5.0 Operator: TS

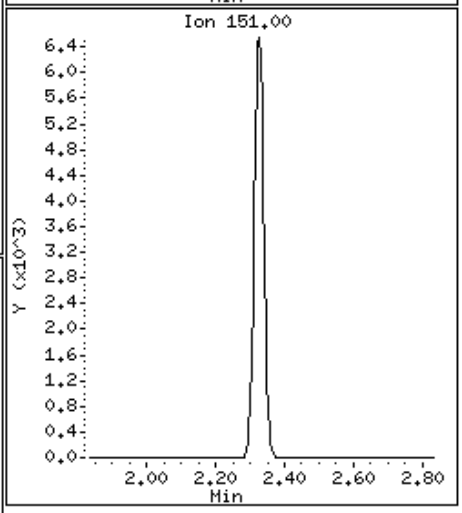
Column phase: DB624 Column diameter: 0.18

138 Freon TF Concentration: 1189.56 ug/l









Data File : \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62122.D
Inj Date : 21-JUN-2024 17:23
InstruID : VOA9.i
LabSampID : HS24060747-01

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62123.D Page 1
Report Date: 22-Jul-2024 14:24

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62123.D
Lab Smp Id: HS24060747-02
Inj Date : 21-JUN-2024 17:45
Operator : TS   Inst ID: VOA9.i
Smp Info : HS24060747-02
Misc Info : V9;WATER;0;100;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240621.b\8260C.m
Meth Date : 22-Jul-2024 14:24 VOA9.i   Quant Type: ISTD
Cal Date : 20-JUN-2024 14:15   Cal File: U62010.D
Als bottle: 21
Dil Factor: 100.00000
Integrator: HP RTE   Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7014

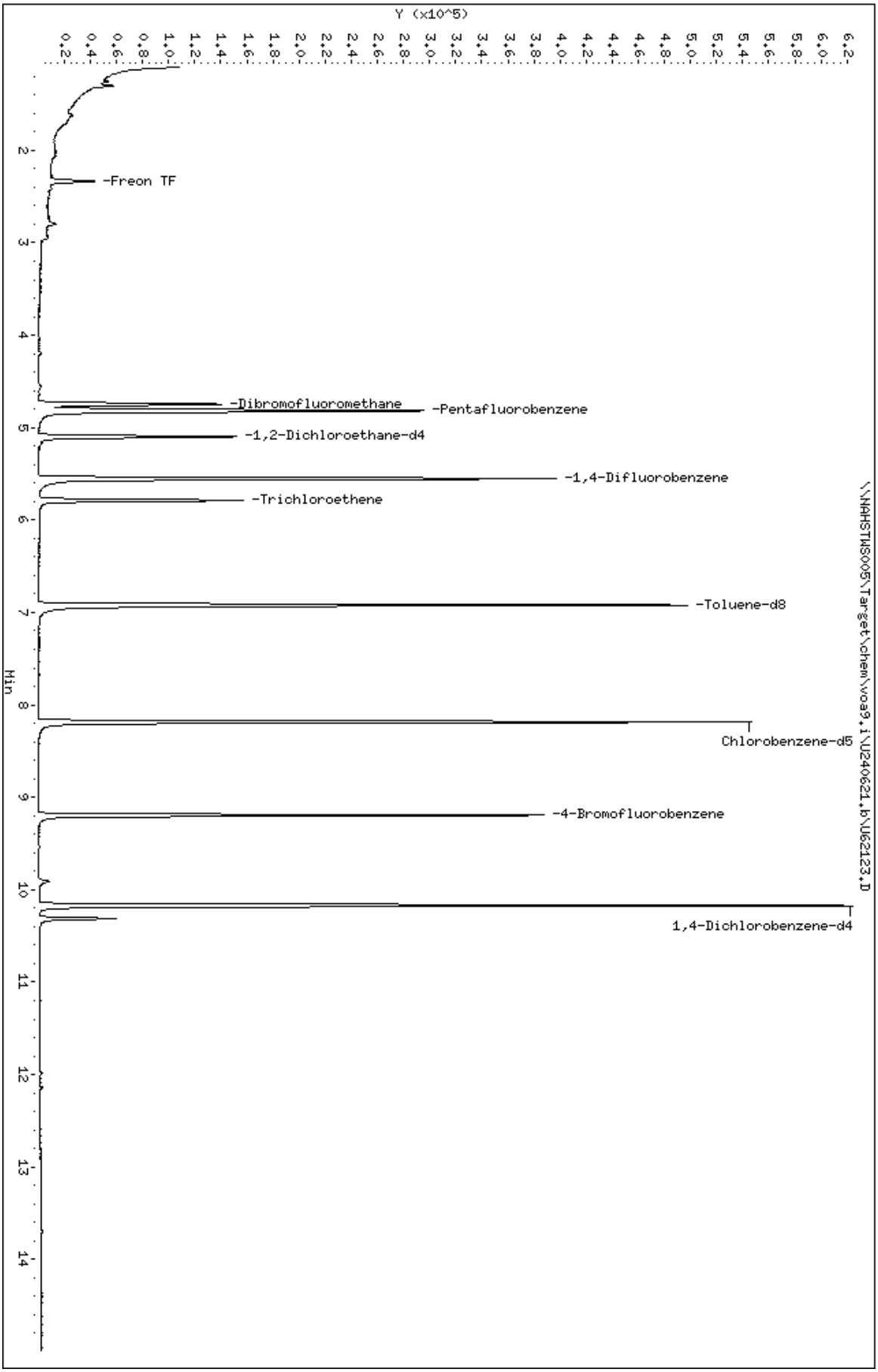
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

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	4.815	4.815	(1.000)	225983	50.0000	
$ 30 Dibromofluoromethane	113	4.748	4.748	(0.986)	80632	53.7157	53.71
$ 35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	97260	50.8001	50.80
* 36 1,4-Difluorobenzene	114	5.554	5.550	(1.000)	324870	50.0000	
38 Trichloroethene	130	5.790	5.786	(1.043)	52057	32.0834	3208.34
* 47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	297504	50.0000	
$ 48 Toluene-d8	98	6.922	6.922	(0.846)	317425	54.9702	54.97
$ 69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	113337	49.9534	49.95
* 70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	160605	50.0000	
138 Freon TF	101	2.337	2.334	(0.485)	12757	10.0990	1009.89

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62123.D
Date : 21-JUN-2024 17:45
Client ID:
Sample Info: HS24060747-02
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62123.D Page 2

Date : 21-JUN-2024 17:45

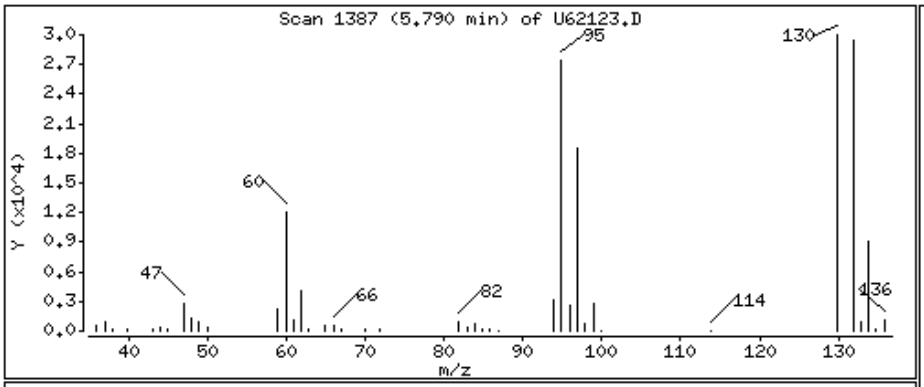
Client ID: Instrument: VOA9.i

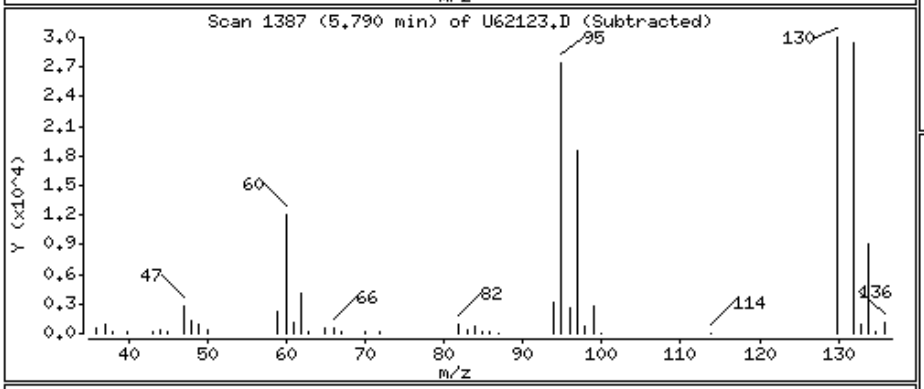
Sample Info: HS24060747-02

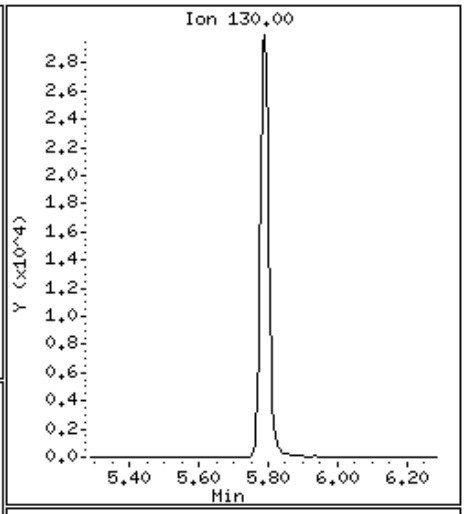
Purge Volume: 5.0 Operator: TS

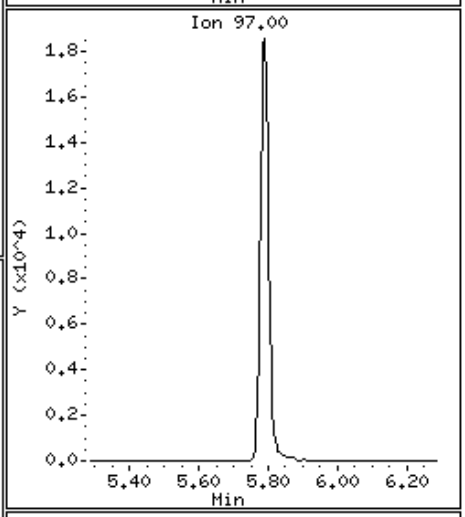
Column phase: DB624 Column diameter: 0.18

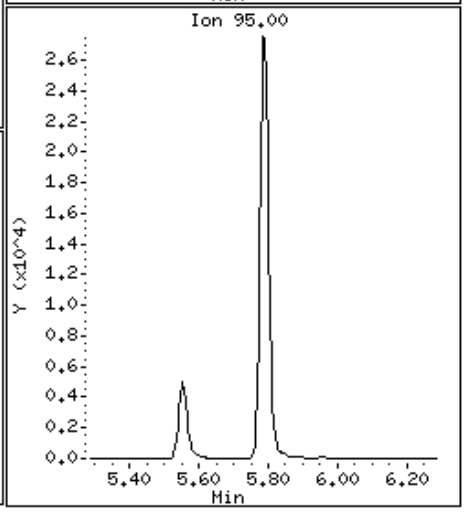
38 Trichloroethene Concentration: 3208.34 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62123.D Page 3

Date : 21-JUN-2024 17:45

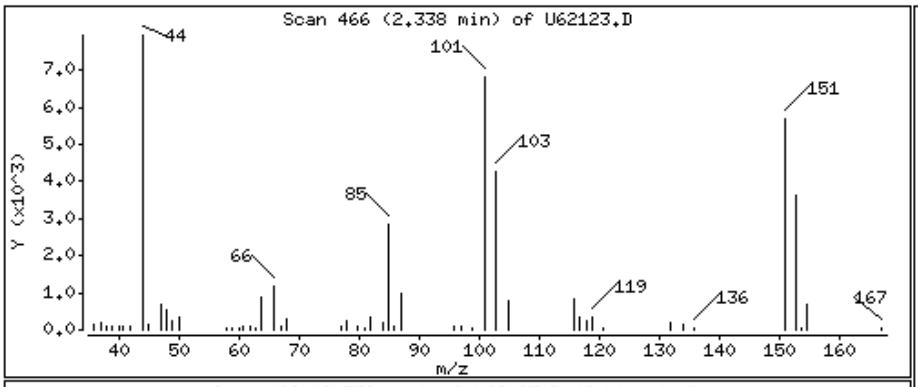
Client ID: Instrument: VOA9.i

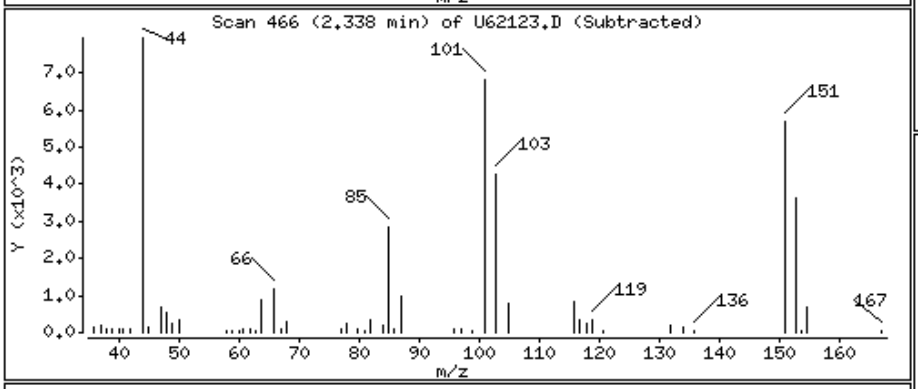
Sample Info: HS24060747-02

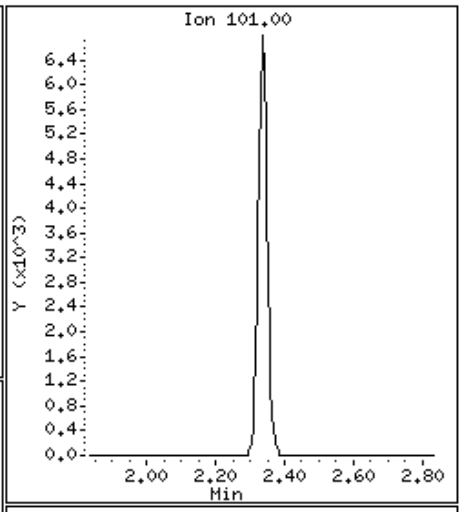
Purge Volume: 5.0 Operator: TS

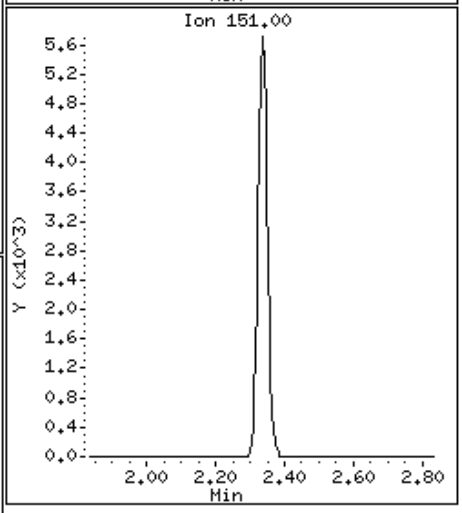
Column phase: DB624 Column diameter: 0.18

138 Freon TF Concentration: 1009.89 ug/l









Data File : \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62123.D
Inj Date : 21-JUN-2024 17:45
InstruID : VOA9.i
LabSampID : HS24060747-02

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62124.D Page 1
Report Date: 22-Jul-2024 14:52

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62124.D
Lab Smp Id: HS24060747-04
Inj Date : 21-JUN-2024 18:06
Operator : TS   Inst ID: VOA9.i
Smp Info : HS24060747-04
Misc Info : V9;WATER;0;100;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240621.b\8260C.m
Meth Date : 22-Jul-2024 14:51 VOA9.i   Quant Type: ISTD
Cal Date : 20-JUN-2024 14:15   Cal File: U62010.D
Als bottle: 22
Dil Factor: 100.00000
Integrator: HP RTE   Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7014

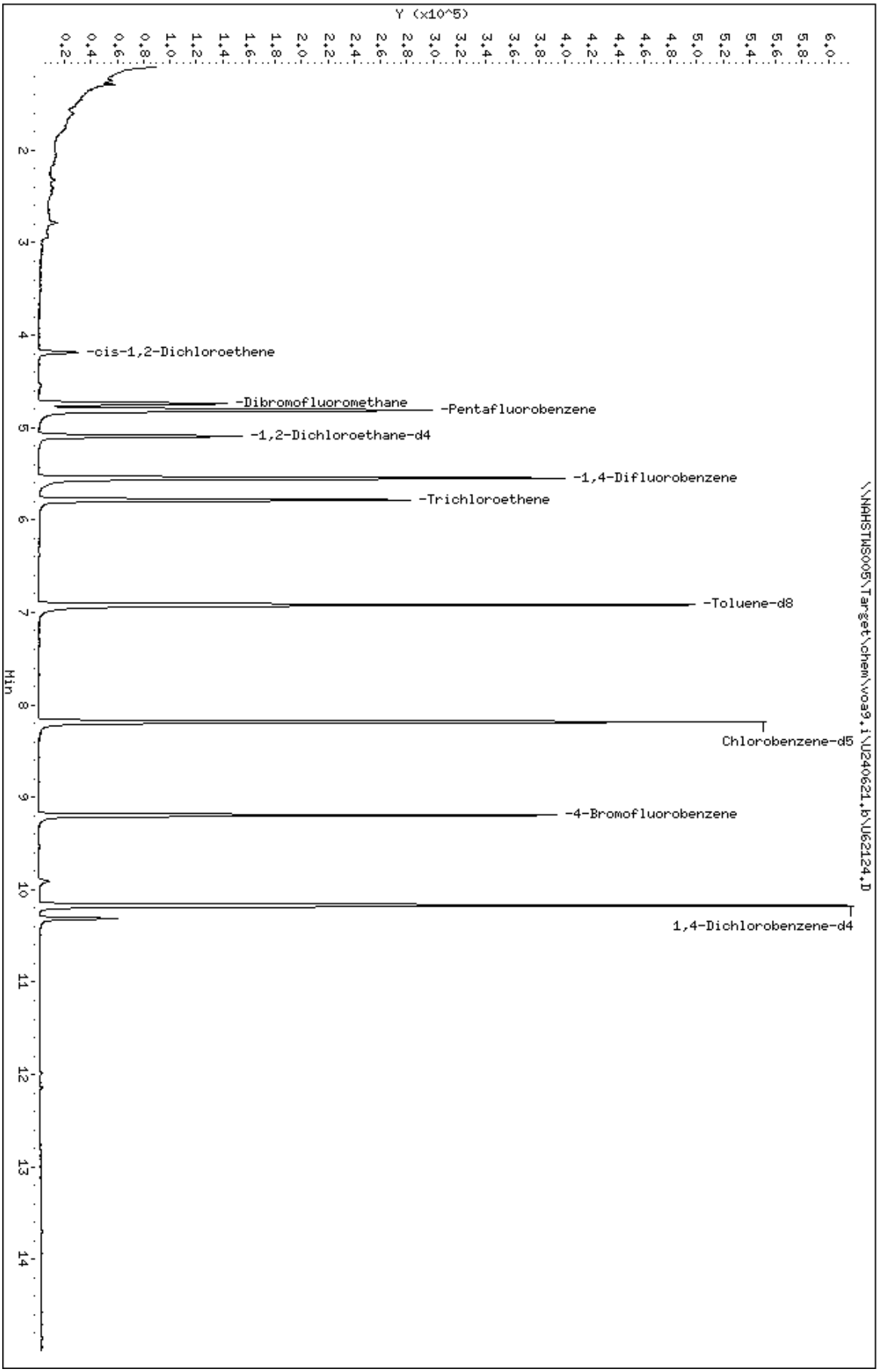
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

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	4.811	4.815	(1.000)	232486	50.0000	
	27 cis-1,2-Dichloroethene	96	4.189	4.193	(0.871)	14326	8.21228	821.22
$	30 Dibromofluoromethane	113	4.740	4.748	(0.985)	82864	53.6585	53.65
$	35 1,2-Dichloroethane-d4	65	5.093	5.096	(1.058)	100929	51.2419	51.24
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	330546	50.0000	
	38 Trichloroethene	130	5.786	5.786	(1.043)	93347	56.5431	5654.30
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	301559	50.0000	
$	48 Toluene-d8	98	6.918	6.922	(0.845)	321408	54.9115	54.91
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	115906	50.3987	50.39
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	163698	50.0000	
M	94 1,2-Dichloroethylene (total)	96				14326	8.35315	835.31(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).



Data File: \\NAHSTWS005\Target\chem\voa9,i\U240621,b\U62124.D
Date : 21-JUN-2024 18:06
Client ID:
Sample Info: HS24060747-04
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: TS
Column diameter: 0.18

Page 1

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62124.D

Date : 21-JUN-2024 18:06

Client ID:

Instrument: VOA9.i

Sample Info: HS24060747-04

Purge Volume: 5.0

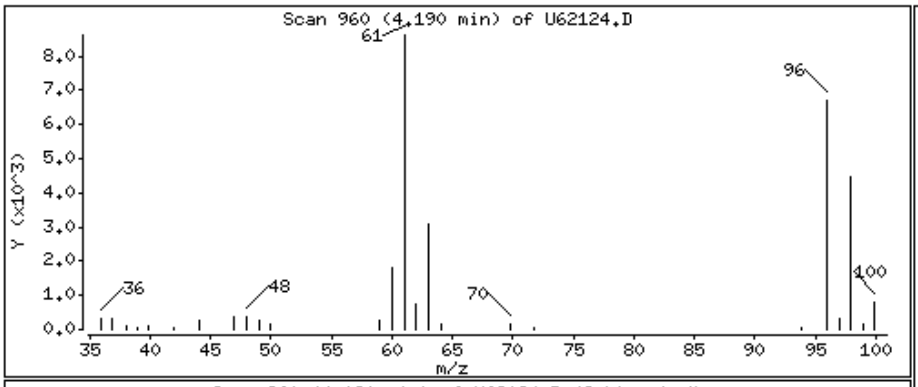
Operator: TS

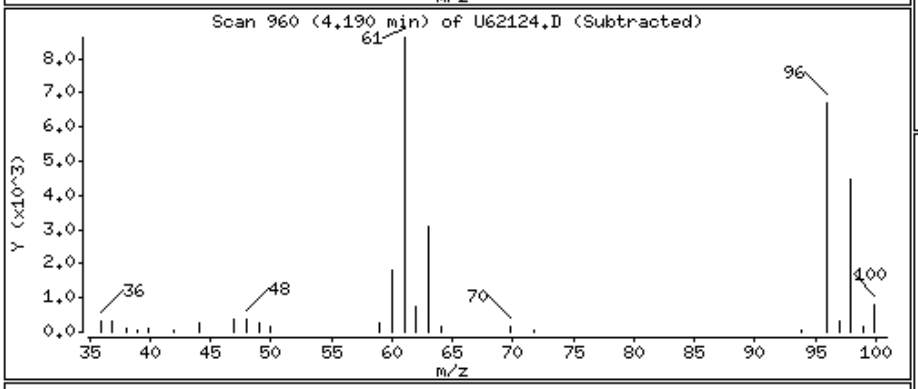
Column phase: DB624

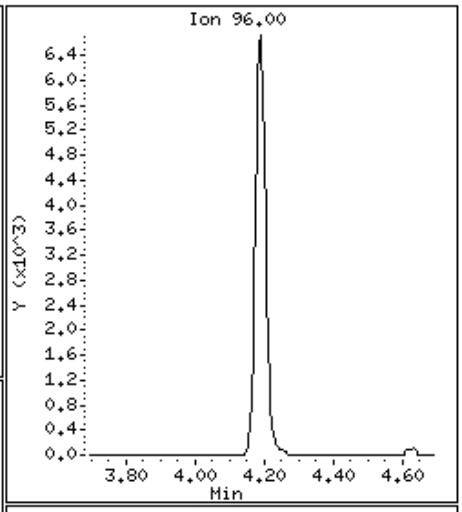
Column diameter: 0.18

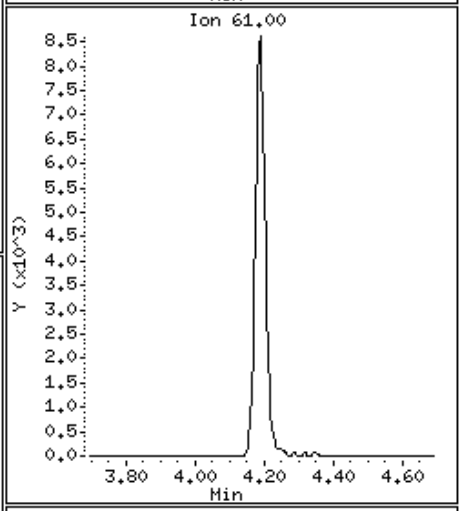
27 cis-1,2-Dichloroethene

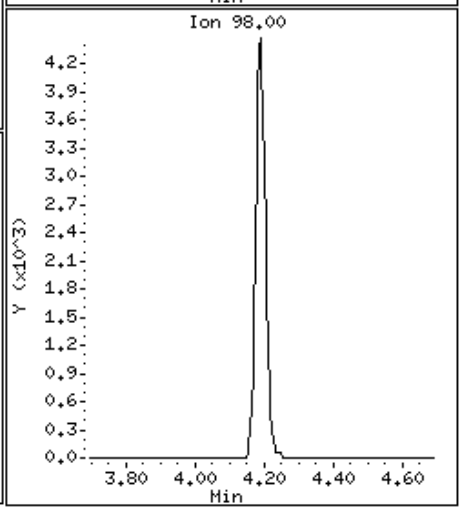
Concentration: 821.22 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62124.D Page 3

Date : 21-JUN-2024 18:06

Client ID:

Instrument: VOA9.i

Sample Info: HS24060747-04

Purge Volume: 5.0

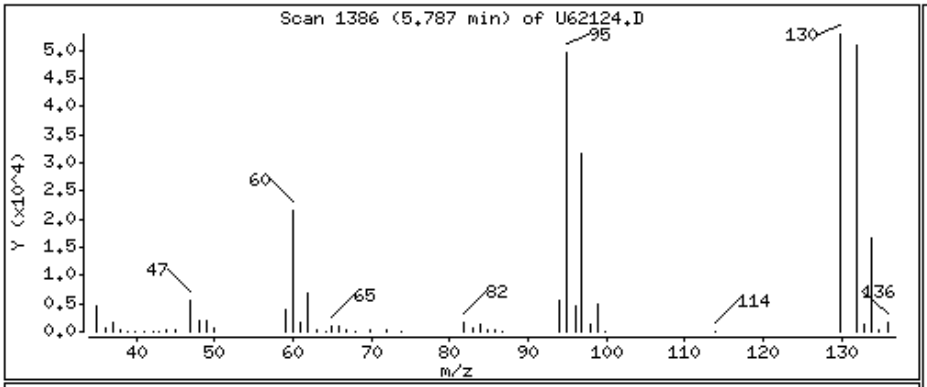
Operator: TS

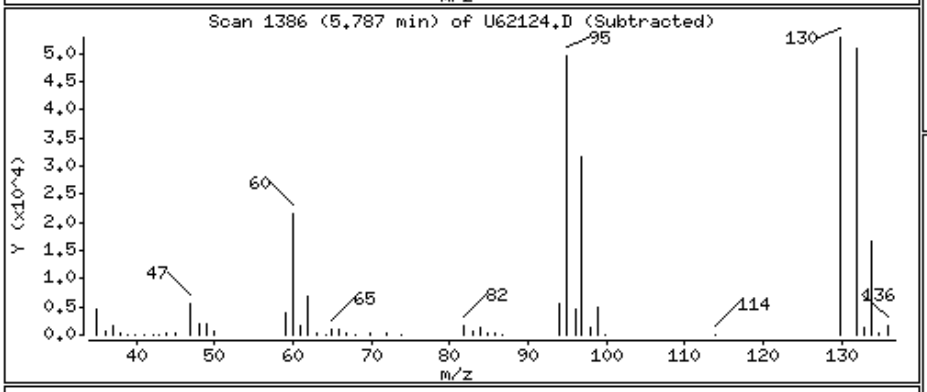
Column phase: DB624

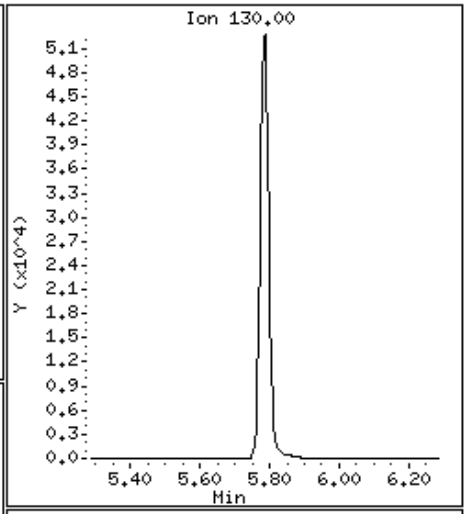
Column diameter: 0.18

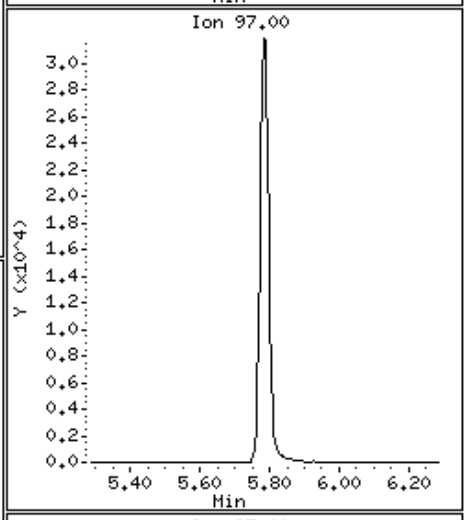
38 Trichloroethene

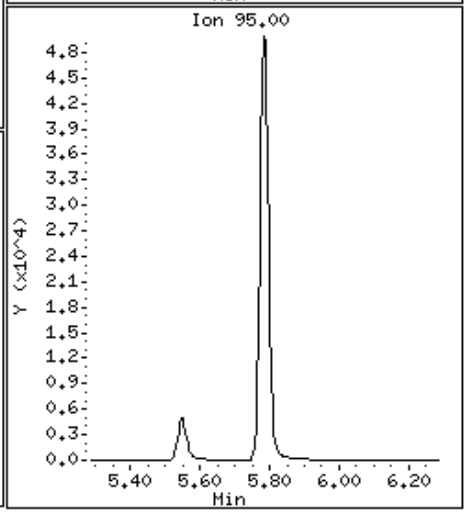
Concentration: 5654.30 ug/l











Data File : \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62124.D
Inj Date : 21-JUN-2024 18:06
InstruID : VOA9.i
LabSampID : HS24060747-04

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62125.D Page 1
Report Date: 22-Jul-2024 14:24

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62125.D
Lab Smp Id: HS24060747-05
Inj Date : 21-JUN-2024 18:28
Operator : TS   Inst ID: VOA9.i
Smp Info : HS24060747-05
Misc Info : V9;WATER;0;500;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240621.b\8260C.m
Meth Date : 22-Jul-2024 14:24 VOA9.i   Quant Type: ISTD
Cal Date : 20-JUN-2024 14:15   Cal File: U62010.D
Als bottle: 23
Dil Factor: 500.00000
Integrator: HP RTE   Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7014

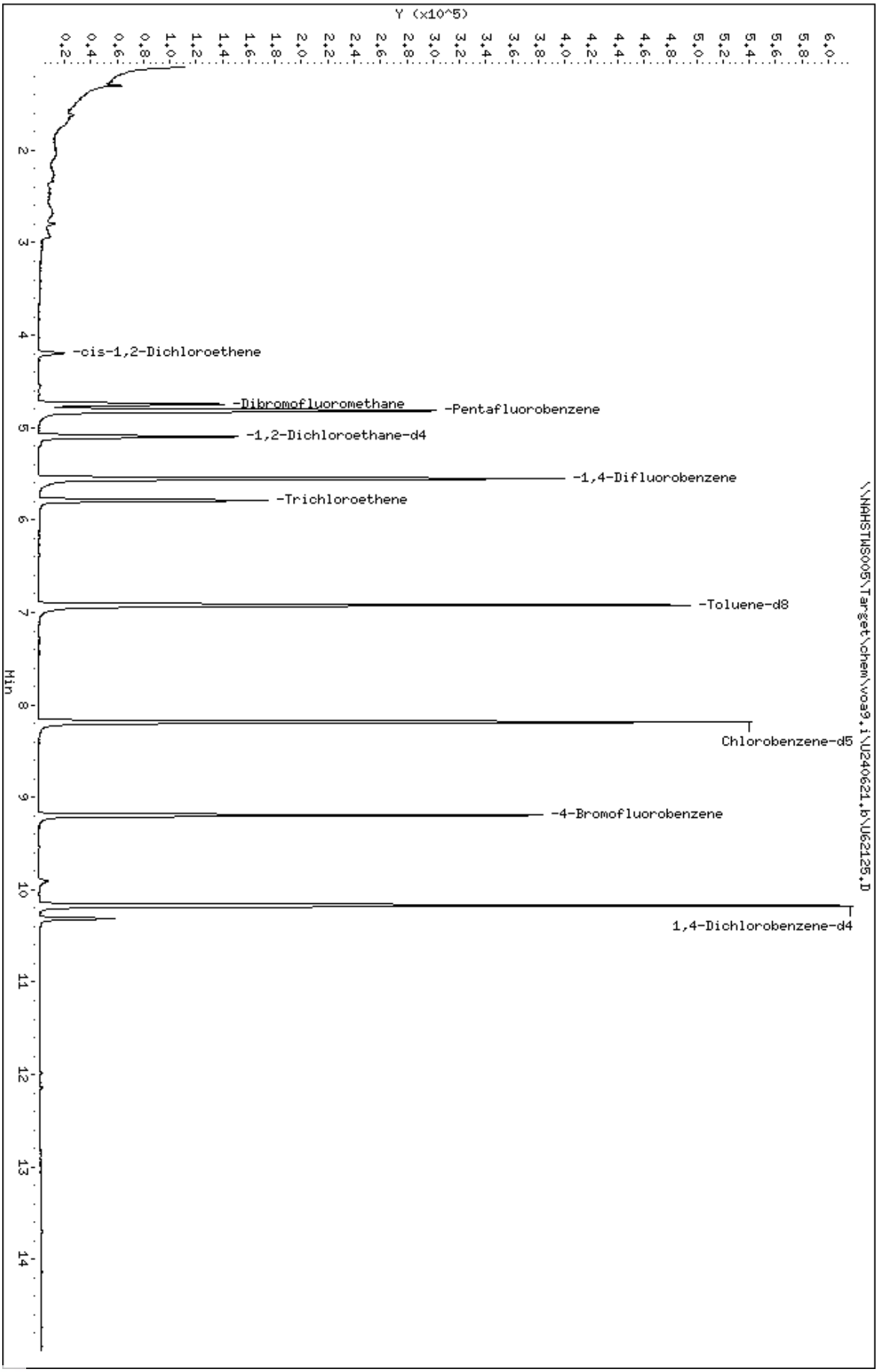
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	500.000	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)	229937	50.0000	
	27 cis-1,2-Dichloroethene	96	4.197	4.193	(0.872)	9738	5.52578	2762.89(H)
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	80395	52.6368	52.63
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	98525	50.5759	50.57
*	36 1,4-Difluorobenzene	114	5.554	5.550	(1.000)	325172	50.0000	
	38 Trichloroethene	130	5.790	5.786	(1.043)	57851	35.6212	17810.60
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	296733	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	315074	54.7048	54.70
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	112796	49.8441	49.84
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	158862	50.0000	
M	94 1,2-Dichloroethylene (total)	96				9738	5.43334	2716.66(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\U240621,b\U62125,D
Date : 21-JUN-2024 18:28
Client ID:
Sample Info: HS24060747-05
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: TS
Column diameter: 0.18

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62125.D Page 2

Date : 21-JUN-2024 18:28

Client ID:

Instrument: VOA9.i

Sample Info: HS24060747-05

Purge Volume: 5.0

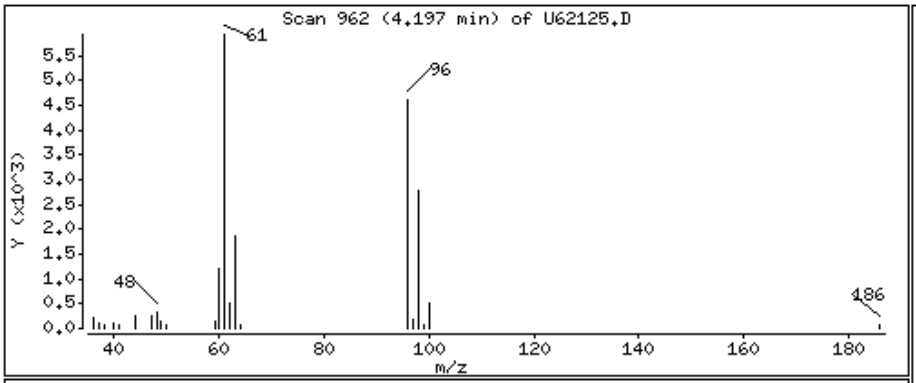
Operator: TS

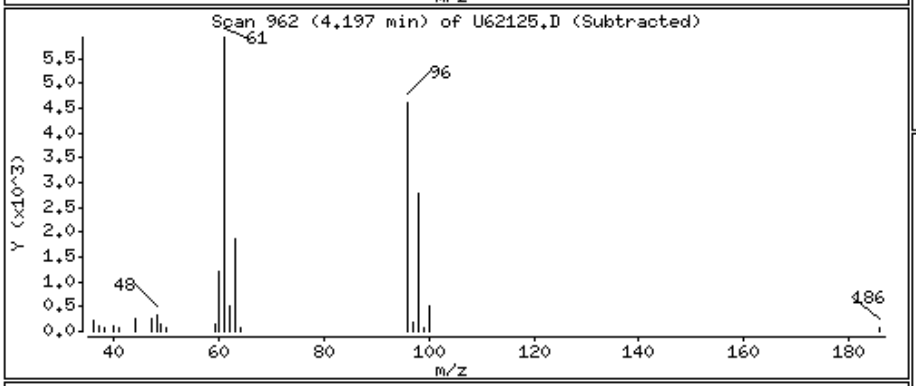
Column phase: DB624

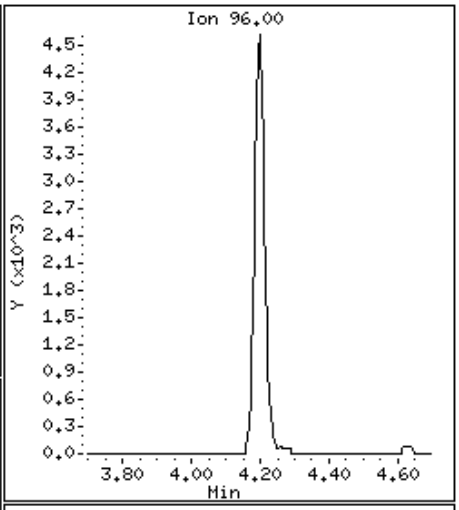
Column diameter: 0.18

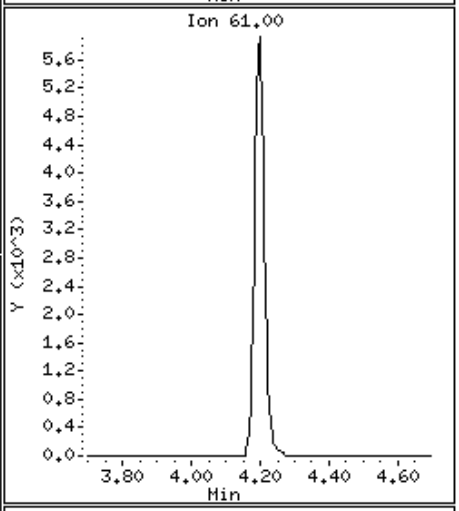
27 cis-1,2-Dichloroethene

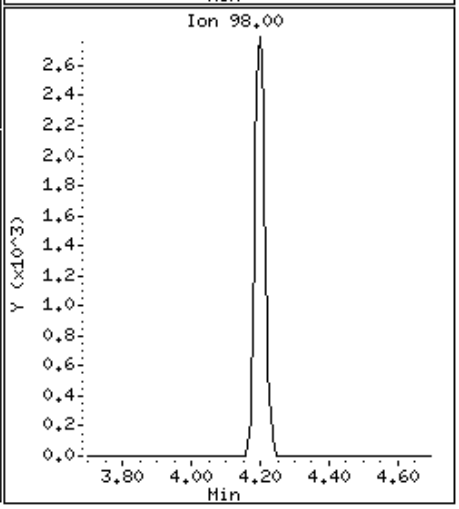
Concentration: 2762.89 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62125.D Page 3

Date : 21-JUN-2024 18:28

Client ID:

Instrument: VOA9.i

Sample Info: HS24060747-05

Purge Volume: 5.0

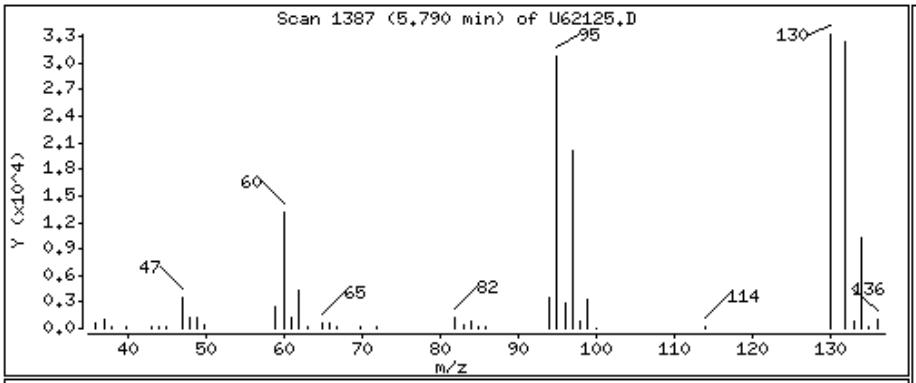
Operator: TS

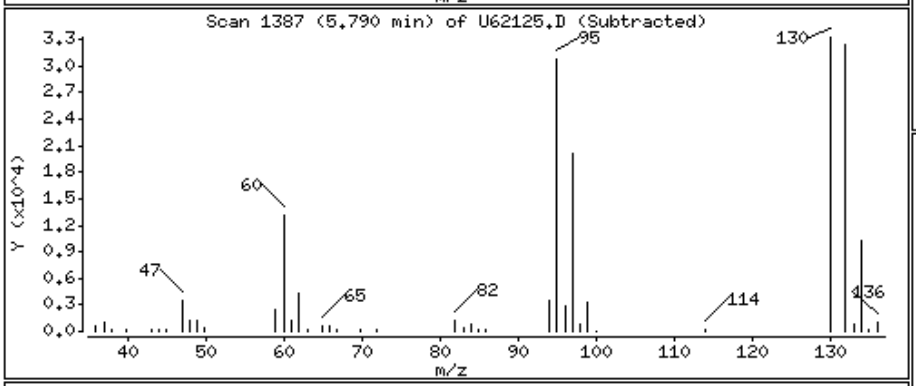
Column phase: DB624

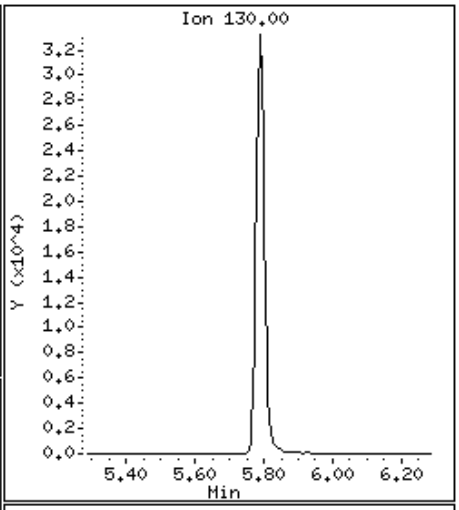
Column diameter: 0.18

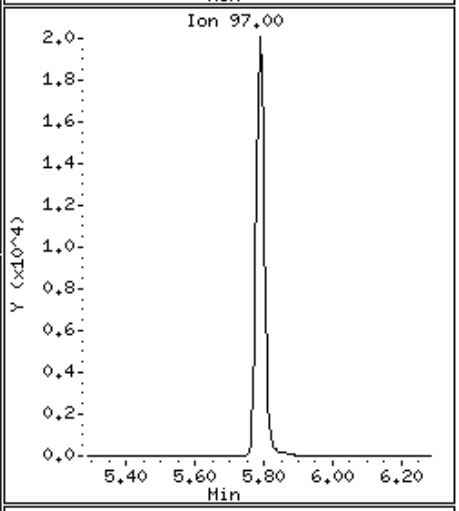
38 Trichloroethene

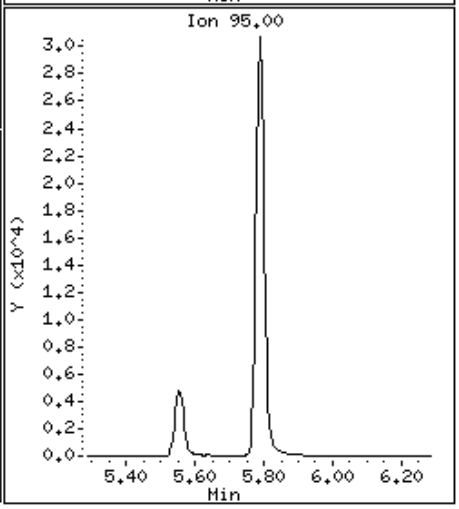
Concentration: 17810.60 ug/l











Data File : \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62125.D
Inj Date : 21-JUN-2024 18:28
InstruID : VOA9.i
LabSampID : HS24060747-05

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62126.D Page 1
Report Date: 22-Jul-2024 14:24

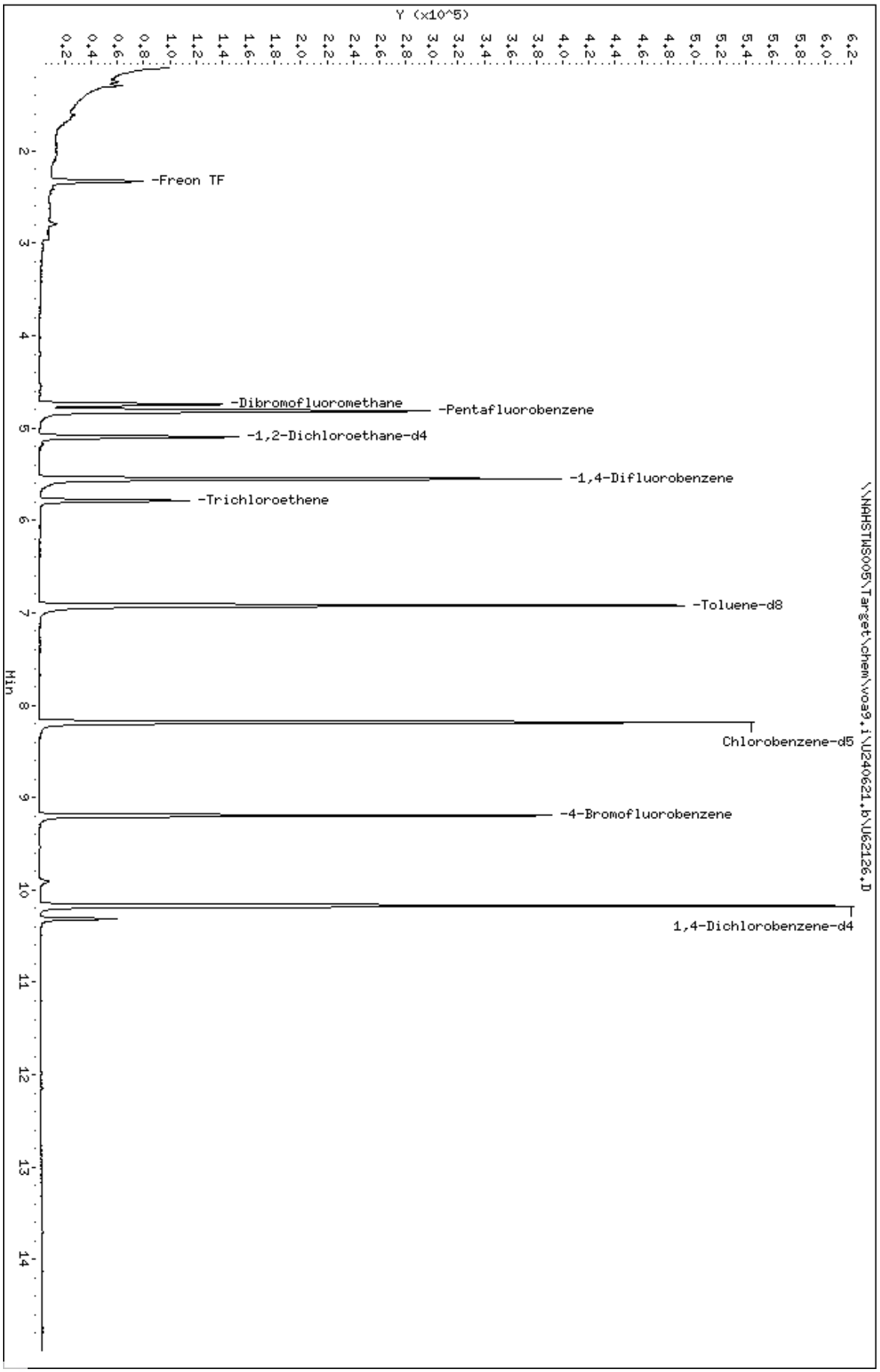
ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62126.D
Lab Smp Id: HS24060747-06
Inj Date : 21-JUN-2024 18:49
Operator : TS   Inst ID: VOA9.i
Smp Info : HS24060747-06
Misc Info : V9;WATER;0;100;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240621.b\8260C.m
Meth Date : 22-Jul-2024 14:24 VOA9.i   Quant Type: ISTD
Cal Date : 20-JUN-2024 14:15   Cal File: U62010.D
Als bottle: 24
Dil Factor: 100.00000
Integrator: HP RTE   Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7014

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	4.811	4.815	(1.000)	230492	50.0000	
$ 30 Dibromofluoromethane	113	4.744	4.748	(0.986)	81654	53.3324	53.33
$ 35 1,2-Dichloroethane-d4	65	5.093	5.096	(1.058)	100524	51.4778	51.47
* 36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	325634	50.0000	
38 Trichloroethene	130	5.786	5.786	(1.043)	38259	23.5242	2352.41
* 47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	298933	50.0000	
$ 48 Toluene-d8	98	6.922	6.922	(0.846)	319560	55.0753	55.07
$ 69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	115283	50.5682	50.56
* 70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	161723	50.0000	
138 Freon TF	101	2.330	2.334	(0.484)	27680	22.0794	2207.93



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62126.D
Date : 21-JUN-2024 18:49
Client ID:
Sample Info: HS24060747-06
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

Page 1

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62126.D

Date : 21-JUN-2024 18:49

Client ID:

Instrument: VOA9.i

Sample Info: HS24060747-06

Purge Volume: 5.0

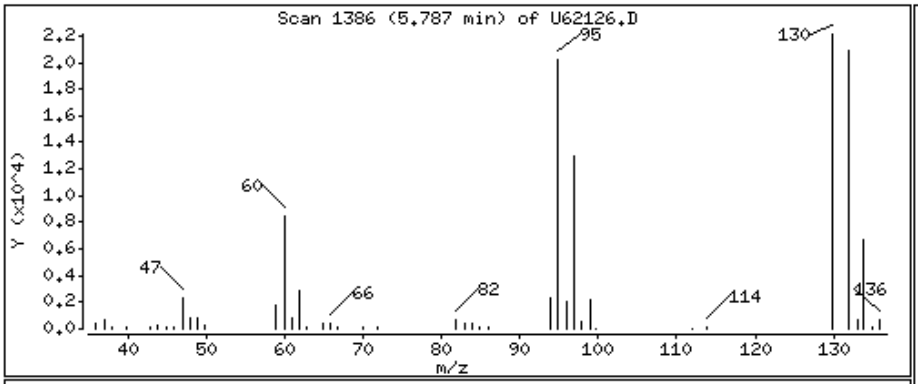
Operator: TS

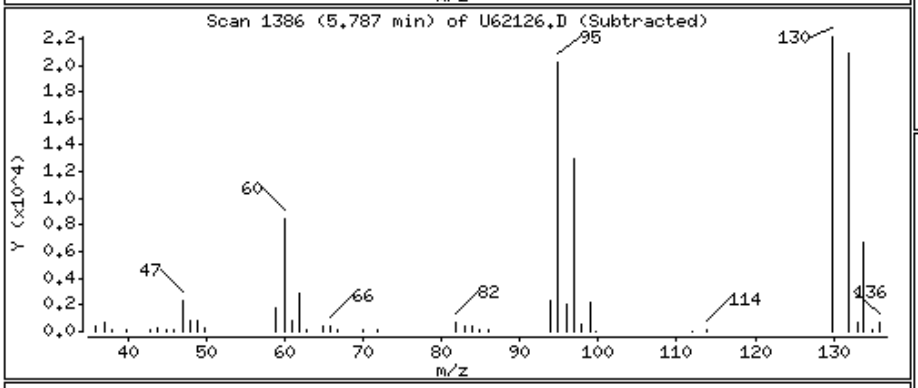
Column phase: DB624

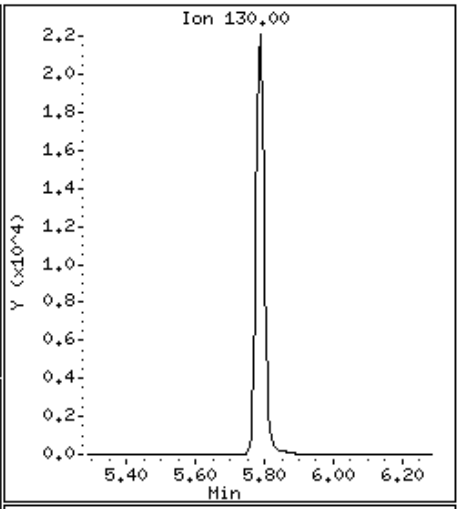
Column diameter: 0.18

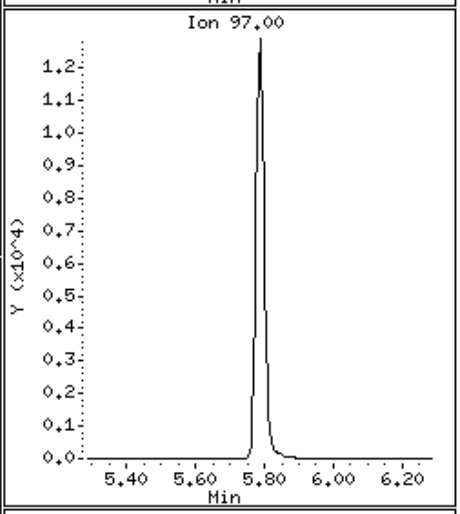
38 Trichloroethene

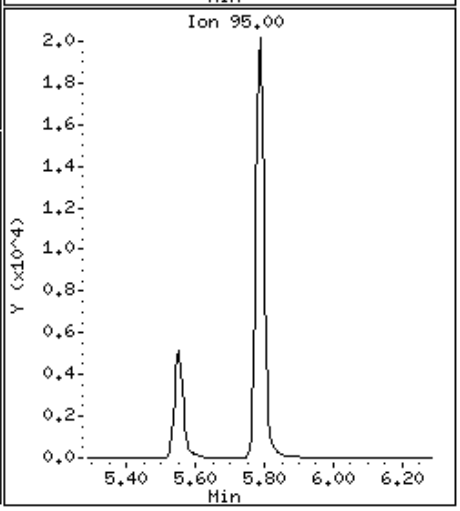
Concentration: 2352.41 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62126.D Page 3

Date : 21-JUN-2024 18:49

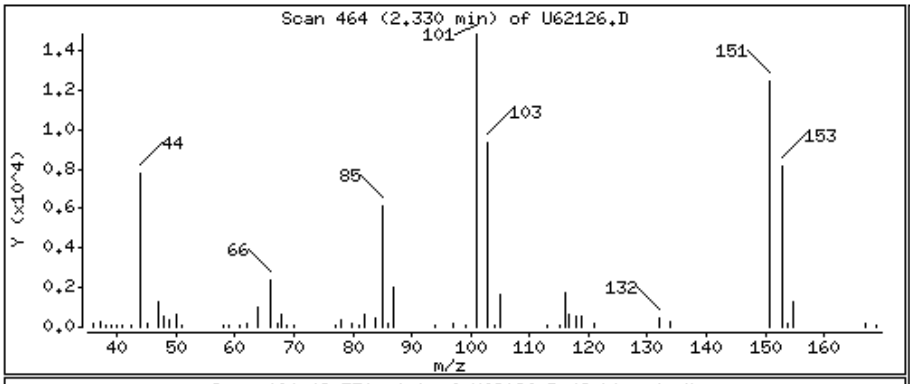
Client ID: Instrument: VOA9.i

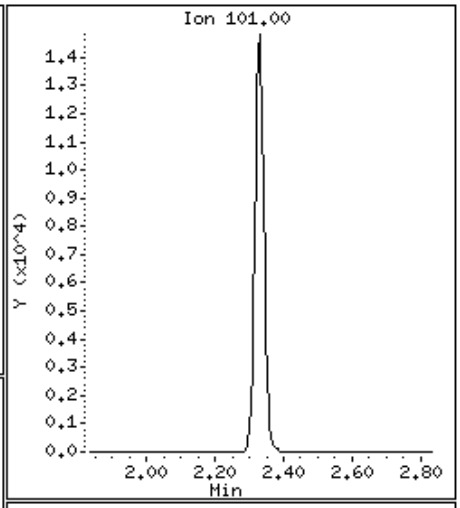
Sample Info: HS24060747-06

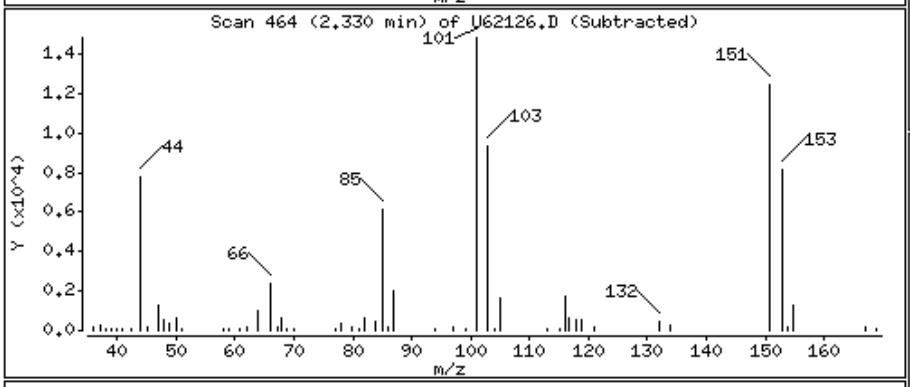
Purge Volume: 5.0 Operator: TS

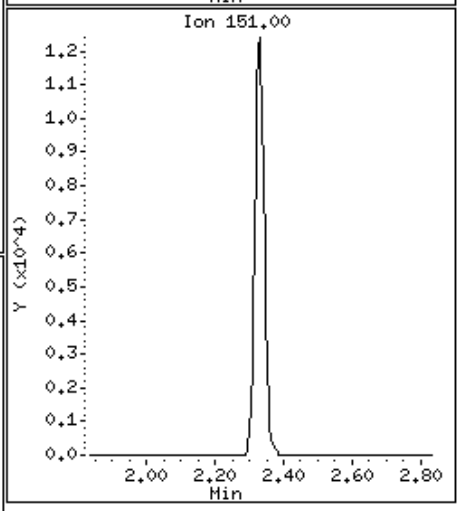
Column phase: DB624 Column diameter: 0.18

138 Freon TF Concentration: 2207.93 ug/l









Data File : \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62126.D
Inj Date : 21-JUN-2024 18:49
InstruID : VOA9.i
LabSampID : HS24060747-06

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62142.D Page 1
Report Date: 22-Jul-2024 14:52

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62142.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 21-JUN-2024 20:39
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\U240621.b\8260C.m
Meth Date : 22-Jul-2024 14:52 VOA9.i Quant Type: ISTD
Cal Date : 20-JUN-2024 14:15 Cal File: U62010.D
Als bottle: 29 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7014

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)	235399	50.0000	
2 Dichlorodifluoromethane	85	1.164	1.164	(0.242)	74887	50.0000	44.54
3 Chloromethane	50	1.295	1.295	(0.269)	163182	50.0000	44.08
4 Propionitrile	54	4.332	4.332	(0.900)	88369	500.000	406.24
5 Vinyl Chloride	62	1.374	1.374	(0.285)	80078	50.0000	38.39
6 Bromomethane	94	1.603	1.603	(0.333)	31395	50.0000	40.07
7 Chloroethane	64	1.693	1.693	(0.352)	48384	50.0000	36.53
8 Trichlorofluoromethane	101	1.891	1.891	(0.393)	95837	50.0000	42.50
9 Acrolein	56	2.262	2.262	(0.470)	4509	100.000	60.41
10 Acetone	43	2.405	2.405	(0.499)	33856	100.000	52.81
11 1,1-Dichloroethene	96	2.326	2.326	(0.483)	53362	50.0000	38.85
12 Isobutyl Alcohol	43	5.280	5.280	(1.097)	171059	1000.00	736.10
13 Acetonitrile	39	2.667	2.667	(0.554)	61168	500.000	336.79
14 Allyl Chloride	41	2.667	2.667	(0.554)	139907	50.0000	32.71
15 Iodomethane	142	2.461	2.461	(0.511)	32127	100.000	61.80
16 Acrylonitrile	53	3.061	3.061	(0.636)	38058	100.000	66.09
17 Methylene Chloride	84	2.791	2.791	(0.580)	64838	50.0000	38.72
18 Methyl tert-butyl ether	73	3.076	3.076	(0.639)	150904	50.0000	37.38
19 Carbon Disulfide	76	2.517	2.517	(0.523)	288304	100.000	76.18
20 trans-1,2-Dichloroethene	96	3.053	3.053	(0.634)	58433	50.0000	40.54

21 Vinyl Acetate	43	4.335	4.335 (0.900)	62396	100.000	75.92
22 1,1-Dichloroethane	63	3.507	3.507 (0.728)	102484	50.0000	37.42

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62142.D Page 2
Report Date: 22-Jul-2024 14:52

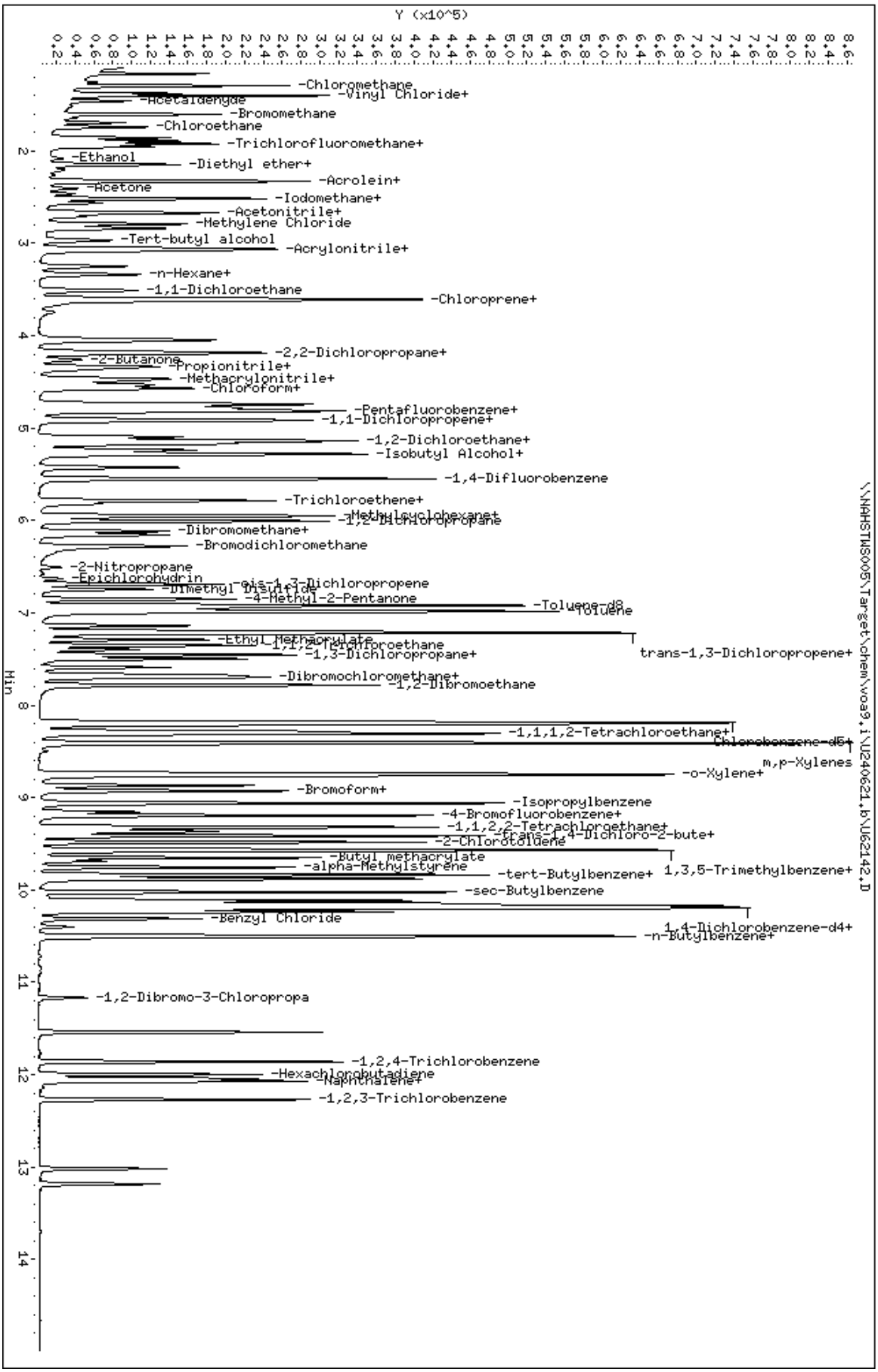
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	3.604	3.604	(0.749)	85608	50.0000	36.59
	24 2-Butanone	43	4.260	4.260	(0.885)	58393	100.000	71.60
	25 Methacrylonitrile	41	4.489	4.489	(0.932)	39258	50.0000	38.27(a)
	26 2,2-Dichloropropane	77	4.178	4.178	(0.868)	84084	50.0000	38.90
	27 cis-1,2-Dichloroethene	96	4.193	4.193	(0.871)	74551	50.0000	43.76
	28 Chloroform	83	4.568	4.568	(0.949)	124012	50.0000	44.46
	29 Bromochloromethane	128	4.467	4.467	(0.928)	38173	50.0000	40.50
$	30 Dibromofluoromethane	113	4.744	4.744	(0.985)	82940	50.0000	53.04
	31 1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	101525	50.0000	46.45
	32 1,1-Dichloropropene	75	4.920	4.920	(0.887)	90141	50.0000	45.57
	33 1,2-Dichloroethane	62	5.171	5.171	(0.932)	95830	50.0000	45.47
	34 Carbon Tetrachloride	117	4.909	4.909	(0.885)	82014	50.0000	49.47
$	35 1,2-Dichloroethane-d4	65	5.093	5.093	(1.058)	97026	50.0000	48.65
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	324233	50.0000	
	37 Benzene	78	5.134	5.134	(0.925)	280562	50.0000	42.04
	38 Trichloroethene	130	5.786	5.786	(1.043)	80966	50.0000	49.99
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	85904	50.0000	45.54
	40 Methyl Methacrylate	41	5.820	5.820	(1.209)	23144	50.0000	37.57
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	75467	50.0000	42.69
	43 2-Nitropropane	43	6.506	6.506	(1.351)	14717	50.0000	39.54
	44 Dibromomethane	93	6.116	6.116	(1.102)	43495	50.0000	42.15
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	122424	100.000	73.05
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	99360	50.0000	45.09
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	304088	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	327395	50.0000	55.46
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	82168	50.0000	39.90
	50 Toluene	91	6.978	6.978	(0.853)	301906	50.0000	43.60
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	79674	50.0000	40.34
	52 2-Hexanone	43	7.214	7.214	(0.881)	82518	100.000	73.06
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	53615	50.0000	40.04
	54 1,3-Dichloropropane	76	7.496	7.496	(0.916)	113921	50.0000	40.48
	55 Dibromochloromethane	129	7.691	7.691	(0.940)	67752	50.0000	48.50
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	61167	50.0000	47.20
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	62942	50.0000	42.59
	58 1-Chlorohexane	55	8.197	8.197	(1.477)	50182	50.0000	40.05
	59 Chlorobenzene	112	8.208	8.208	(1.003)	194579	50.0000	46.16
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	67757	50.0000	45.55
	61 Ethylbenzene	106	8.305	8.305	(1.015)	97003	50.0000	45.27
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	243337	100.000	95.12
	63 o-Xylene	106	8.748	8.748	(1.069)	119895	50.0000	47.55
	64 Styrene	104	8.763	8.763	(1.071)	192904	50.0000	45.76
	66 Bromoform	173	8.920	8.920	(1.090)	40368	50.0000	42.88
	67 Isopropylbenzene	105	9.063	9.063	(1.107)	301952	50.0000	48.27
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	84790	50.0000	38.56
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	122940	50.0000	53.01
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	177902	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	81703	50.0000	36.68
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	13465	50.0000	31.68
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	335156	50.0000	43.56
	74 Bromobenzene	156	9.317	9.317	(0.916)	87041	50.0000	41.64
	75 1,3,5-Trimethylbenzene	105	9.565	9.565	(0.940)	232671	50.0000	40.03
	76 2-Chlorotoluene	91	9.482	9.482	(0.932)	213947	50.0000	41.09

77 4-Chlorotoluene	91	9.576	9.576 (0.941)	245802	50.0000	41.60
78 tert-Butylbenzene	119	9.839	9.839 (0.967)	219024	50.0000	46.71

	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	9.880	9.880	(0.971)	214202	50.0000	37.83
81	sec-Butylbenzene	105	10.022	10.022	(0.985)	280980	50.0000	44.99
82	p-Isopropyltoluene	119	10.146	10.146	(0.997)	233600	50.0000	39.19
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	154739	50.0000	40.23
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	160969	50.0000	43.63
86	Benzyl Chloride	91	10.311	10.311	(1.260)	114650	50.0000	40.26
87	n-Butylbenzene	91	10.495	10.495	(1.032)	204145	50.0000	38.50
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	151947	50.0000	39.68
89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	10560	50.0000	38.90
90	1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	97992	50.0000	42.29
91	Hexachlorobutadiene	225	11.998	11.998	(1.179)	45047	50.0000	43.85
92	Naphthalene	128	12.069	12.069	(1.186)	195404	50.0000	36.69
93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	88550	50.0000	41.74
146	Methyl acetate	43	2.709	2.709	(0.563)	39168	50.0000	31.24
138	Freon TF	101	2.330	2.330	(0.484)	52115	50.0000	41.14
141	Cyclohexane	56	4.782	4.782	(0.993)	94813	50.0000	41.61
142	Tetrahydrofuran	42	4.538	4.538	(0.942)	22044	100.000	79.07
147	Methylcyclohexane	55	5.944	5.944	(1.071)	154119	50.0000	44.76
135	1,4-Dioxane	88	6.165	6.165	(1.280)	14289	1000.00	801.75
132	n-Butanol	56	5.820	5.820	(1.209)	32354	1000.00	761.33
136	n-Hexane	57	3.338	3.338	(0.693)	53626	50.0000	35.52
139	Diethyl ether	59	2.142	2.142	(0.445)	41193	50.0000	35.81
148	Tert-butyl alcohol	59	2.967	2.967	(0.616)	86700	1000.00	639.01
149	Isopropyl alcohol	45	2.562	2.562	(0.532)	66071	1000.00	631.94
156	Diisopropyl ether	45	3.616	3.616	(0.751)	180044	50.0000	31.71
162	Butyl acrylate	55	8.733	8.733	(1.067)	110589	50.0000	39.50
164	Dicyclopentadiene	66	10.202	10.202	(1.003)	306591	50.0000	39.80
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	199239	50.0000	39.15
167	Ethanol	45	2.082	2.082	(0.433)	13033	1000.00	645.94
172	tert-Butyl formate	59	5.239	5.239	(1.088)	88552	100.000	77.86
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	336516	1000.00	752.57
140	1,3-Butadiene	54	1.400	1.400	(0.291)	77269	50.0000	38.22
182	Epichlorohydrin	57	6.630	6.630	(1.195)	9224	200.000	166.15
M 94	1,2-Dichloroethylene (total)	96				132984	100.000	(a)
145	alpha-Methylstyrene	118	9.756	9.756	(0.959)	76040	50.0000	37.59
131	Methyl Acrylate	55	4.365	4.365	(0.907)	72159	50.0000	36.98
189	n-Butyl acetate	43	7.706	7.706	(0.941)	88924	50.0000	36.67
134	Cyclohexanone	55	9.152	9.152	(0.900)	41046	1000.00	448.23(a)
185	Isoprene	39	2.150	2.150	(0.447)	11589	50.0000	33.90
188	Isopropyl acetate	43	5.280	5.280	(0.951)	171878	50.0000	39.64
150	Allyl alcohol	57	3.338	3.338	(0.693)	53626	1000.00	710.57
194	Acetaldehyde	44	1.456	1.456	(0.303)	113068	200.000	287.33
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	49482	50.0000	44.69
133	Ethyl Acrylate	55	5.944	5.944	(1.234)	154119	50.0000	41.62
163	Butyl methacrylate	41	9.651	9.651	(0.949)	74918	50.0000	41.44
159	Propylene oxide	43	2.199	2.199	(0.457)	7143	100.000	66.42
203	2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	73088	50.0000	38.64
204	Tetrahydrothiophene	60	7.672	7.672	(0.937)	70125	50.0000	40.58(A)
205	sec-Butyl Ether	57	7.214	7.214	(0.881)	77297	50.0000	22.75(A)
187	n-Amyl acetate	43	8.931	8.931	(1.091)	101766	50.0000	37.82
206	2-Chloropropene	41	1.921	1.921	(0.399)	112920	50.0000	46.72(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\woa9,i\U240621,b\U62142,D
Date : 21-JUN-2024 20:39
Client ID: VSTD050
Sample Info: VSTD050;VSTD050;2;;CCV
Purge Volume: 5.0
Column phase: DB624

Instrument: WOA9,i
Operator: TS
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240621.b\U62142.D
Inj Date : 21-JUN-2024 20:39
InstruID : VOA9.i
LabSampID : VSTD050

NO MANUAL INTEGRATIONS

HS24060747-MSSEMI-SW8270SIM

ALS WO# HS24060747

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Form 2

System Monitoring Compound Recovery

Semi-Volatiles by Semivolatiles SIM

Workorder

HS24060747

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

07/23/2024

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 18 24

Workorder HS24060747

Semi-Volatiles by Semivolatiles SIM

RUNID SV-6-470408

129_061024

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24060747-03	Groundwater	06/22/24 16:22	%REC	1
Instrument ID	SV6				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	17.D	0.074	0.08	92.9		40-140
4-Terphenyl-d14	17.D	0.079	0.08	98.4		40-140
Nitrobenzene-d5	17.D	0.068	0.08	84.7		40-140

126_061024

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24060747-09	Groundwater	06/22/24 17:14	%REC	1
Instrument ID	SV6				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	20.D	0.07	0.08	87.9		40-140
4-Terphenyl-d14	20.D	0.066	0.08	82.9		40-140
Nitrobenzene-d5	20.D	0.073	0.08	91.4		40-140

LCS-213459

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	LCS-213459	Aqueous	06/22/24 13:28	%REC	1
Instrument ID	SV6				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	07.D	0.06536	0.08	81.7		40-140
4-Terphenyl-d14	07.D	0.06398	0.08	80.0		40-140
Nitrobenzene-d5	07.D	0.06405	0.08	80.1		40-140

LCSD-213459

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	LCSD-213459	Aqueous	06/22/24 13:45	%REC	1
Instrument ID	SV6				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	08.D	0.07043	0.08	88.0		40-140
4-Terphenyl-d14	08.D	0.06646	0.08	83.1		40-140
Nitrobenzene-d5	08.D	0.06531	0.08	81.6		40-140

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder HS24060747

Semi-Volatiles by Semivolatiles SIM

RUNID SV-6-470408

MBLK-213459

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	MBLK-213459	Aqueous	06/22/24 13:10	%REC	1
Instrument ID	SV6				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	06.D	0.07061	0.08	88.3		40-140
4-Terphenyl-d14	06.D	0.06556	0.08	81.9		40-140
Nitrobenzene-d5	06.D	0.07255	0.08	90.7		40-140

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder HS24060747

Semi-Volatiles by Semivolatiles SIM

RUNID SV-6-470615

1824DPTMW05_061024

Matrix	Analysis Date	Conc Units	Dilution
Groundwater	06/26/24 20:14	%REC	50

Lab Sample ID HS24060747-01

Instrument ID SV6

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	17.D	0	0.08	0		40-140
4-Terphenyl-d14	17.D	0	0.08	0		40-140
Nitrobenzene-d5	17.D	0	0.08	0		40-140

1824DPTMW05_061024_a

Matrix	Analysis Date	Conc Units	Dilution
Groundwater	06/26/24 20:32	%REC	50

Lab Sample ID HS24060747-02

Instrument ID SV6

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	18.D	0	0.08	0		40-140
4-Terphenyl-d14	18.D	0	0.08	0		40-140
Nitrobenzene-d5	18.D	0	0.08	0		40-140

120_061024

Matrix	Analysis Date	Conc Units	Dilution
Groundwater	06/26/24 20:49	%REC	20

Lab Sample ID HS24060747-04

Instrument ID SV6

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	19.D	0	0.08	0		40-140
4-Terphenyl-d14	19.D	0	0.08	0		40-140
Nitrobenzene-d5	19.D	0	0.08	0		40-140

MW14_061024

Matrix	Analysis Date	Conc Units	Dilution
Groundwater	06/26/24 21:24	%REC	1000

Lab Sample ID HS24060747-05

Instrument ID SV6

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	21.D	0	0.08	0		40-140
4-Terphenyl-d14	21.D	0	0.08	0		40-140
Nitrobenzene-d5	21.D	0	0.08	0		40-140

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Form 3B

Laboratory Control Sample Recovery

EPA 3510

Workorder

HS24060747

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

07/23/2024

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Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder HS24060747

EPA 3510

SAMPLENUM LCS-213459

SV-6_470408				LCS-213459		LCSD-213459					
Spike Matrix	Aqueous	Result Units	ug/L	Run Date	06/22/24	Run Date	06/22/24				
Prep Date	06/13/24	Analysis Batch	213459	Run Time	13:28	Run Time	13:45				
Prep Method	SW3510	Prep Batch	213459	Prep Amt	1000 mL	Prep Amt	1000 mL				

Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q	LCSD Result	%R	Q	RPD Limit	RPD	Q
1,4-Dioxane	40-140	0.08	0.0409	51		0.04589	57		20	11.5	

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Form 4

Method Blank Summary

EPA 3510

Workorder

HS24060747

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

07/23/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
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Form 4 - Method Blank Summary

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Workorder: HS24060747

EPA 3510

METHOD BLANK	Prep Date	Prep Batch	Matrix	Analysis Date	Analysis Batch	Inst ID
MBLK-213459	06/13/24	213459	Aqueous	06/22/24 13:10	213459	SV6

Client Sample ID	Lab Sample ID	Type	Analysis Date	Analysis Batch	Inst ID	FileID
LCS-213459	LCS-213459	LCS	06/22/24 13:28	213459	SV6	07.D
LCSD-213459	LCSD-213459	LCSD	06/22/24 13:45	213459	SV6	08.D
129_061024	HS24060747-03	SAMP	06/22/24 16:22	213459	SV6	17.D
126_061024	HS24060747-09	SAMP	06/22/24 17:14	213459	SV6	20.D
1824DPTMW05_061024	HS24060747-01	SAMP	06/26/24 20:14	213459	SV6	17.D
1824DPTMW05_061024_a	HS24060747-02	SAMP	06/26/24 20:32	213459	SV6	18.D
120_061024	HS24060747-04	SAMP	06/26/24 20:49	213459	SV6	19.D
MW14_061024	HS24060747-05	SAMP	06/26/24 21:24	213459	SV6	21.D

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Form 5

Instrument Performance Check

Semi-Volatiles by Semivolatiles SIM

Workorder

HS24060747

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

07/23/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

ALS Houston, US Date: 23-Jul-24

Form 5 - Instrument Performance Check
Decafluorotriphenylphosphine (DFTPP)

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060747 **Run ID:** SV-6_470408

Lab File ID: 01.D
Instrument ID: SV-6
Injection Date: 22-Jun-2024
Injection Time: 10:28

m/e	Ion Abundance Criterion	% Relative Abundance
51	10.0 - 80.0% of mass 198	23.3
68	Less than 2.0% of mass 69	0.5 (1.6) 1
69	Mass 69 relative abundance	30.2
70	Less than 2.0% of mass 69	0.0 (0.0) 1
127	10.0 - 80.0% of mass 198	40.2
197	Less than 2.0% of mass 198	0.0
198	Base peak, 100% relative abundance	75.1
199	5.0 - 9.0% of mass 198	6.6
275	10.0 - 60.0% of mass 198	29.2
365	Greater than 1.0% of mass 198	3.8
441	Present, but < 24.0% of mass 442	72.9
442	greater than 50.0% of mass 198	133.0
443	15.0 - 24.0% of mass 442	26.8 (20.1) 2

1-Value is % mass 69 2-Value is % mass 442

This check applies to following Samples, MS, MSD, Blanks and Standards

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed
14DX-0.08	14DX-0.08	04.D	22-Jun-2024 12:06
MBLK-213459	MBLK-213459	06.D	22-Jun-2024 13:10
LCS-213459	LCS-213459	07.D	22-Jun-2024 13:28
LCSD-213459	LCSD-213459	08.D	22-Jun-2024 13:45
1824DPTMW05_061024	HS24060747-01	15.D	22-Jun-2024 15:47
1824DPTMW05_061024_a	HS24060747-02	16.D	22-Jun-2024 16:04
129_061024	HS24060747-03	17.D	22-Jun-2024 16:22
120_061024	HS24060747-04	18.D	22-Jun-2024 16:39
MW14_061024	HS24060747-05	19.D	22-Jun-2024 16:57
126_061024	HS24060747-09	20.D	22-Jun-2024 17:14

ALS Houston, US Date: 23-Jul-24

Form 5 - Instrument Performance Check
Decafluorotriphenylphosphine (DFTPP)

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060747 **Run ID:** SV-6_470615

Lab File ID: 01.D
Instrument ID: SV-6
Injection Date: 26-Jun-2024
Injection Time: 14:31

m/e	Ion Abundance Criterion	% Relative Abundance
51	10.0 - 80.0% of mass 198	22.0
68	Less than 2.0% of mass 69	0.5 (1.8) 1
69	Mass 69 relative abundance	26.9
70	Less than 2.0% of mass 69	0.2 (0.8) 1
127	10.0 - 80.0% of mass 198	37.8
197	Less than 2.0% of mass 198	0.0
198	Base peak, 100% relative abundance	71.7
199	5.0 - 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	30.6
365	Greater than 1.0% of mass 198	3.5
441	Present, but < 24.0% of mass 442	73.4
442	greater than 50.0% of mass 198	139.0
443	15.0 - 24.0% of mass 442	27.2 (19.5) 2

1-Value is % mass 69 2-Value is % mass 442

This check applies to following Samples, MS, MSD, Blanks and Standards

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed
SIMDX-0.08	SIMDX-0.08	04.D	26-Jun-2024 15:48
MBLK-213973	MBLK-213973	05.D	26-Jun-2024 16:14
LCS-213973	LCS-213973	06.D	26-Jun-2024 16:34
LCSD-213973	LCSD-213973	07.D	26-Jun-2024 16:54
1824DPTMW05_061024	HS24060747-01	17.D	26-Jun-2024 20:14
1824DPTMW05_061024_a	HS24060747-02	18.D	26-Jun-2024 20:32
120_061024	HS24060747-04	19.D	26-Jun-2024 20:49
MW14_061024	HS24060747-05	21.D	26-Jun-2024 21:24
SIMDX-0.08	SIMDX-0.08	22.D	26-Jun-2024 21:43

ALS Houston, US Date: 23-Jul-24

Form 5 - Instrument Performance Check
Decafluorotriphenylphosphine (DFTPP)

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060747 **Run ID:** SV-6_472536

Lab File ID: 01.D
Instrument ID: SV-6
Injection Date: 18-Apr-2024
Injection Time: 10:39

m/e	Ion Abundance Criterion	% Relative Abundance
51	10.0 - 80.0% of mass 198	23.6
68	Less than 2.0% of mass 69	0.5 (1.8) 1
69	Mass 69 relative abundance	28.8
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	39.7
197	Less than 2.0% of mass 198	0.4
198	Base peak, 100% relative abundance	71.5
199	5.0 - 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	30.4
365	Greater than 1.0% of mass 198	4.0
441	Present, but < 24.0% of mass 442	74.3
442	greater than 50.0% of mass 198	139.9
443	15.0 - 24.0% of mass 442	27.6 (19.7) 2

1-Value is % mass 69 2-Value is % mass 442

This check applies to following Samples, MS, MSD, Blanks and Standards

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed
14DX-0.08	14DX-0.08	03A.D	18-Apr-2024 12:24
14DX-0.01	14DX-0.01	04.D	18-Apr-2024 12:49
14DX-0.03	14DX-0.03	05.D	18-Apr-2024 13:07
14DX-0.05	14DX-0.05	06.D	18-Apr-2024 13:25
14DX-0.10	14DX-0.10	07.D	18-Apr-2024 13:42
14DX-0.15	14DX-0.15	08.D	18-Apr-2024 14:00
14DX-0.20	14DX-0.20	09.D	18-Apr-2024 14:18
14DX-0.50	14DX-0.50	10.D	18-Apr-2024 14:35
14DX ICV-0.08	14DX ICV-0.08	11.D	18-Apr-2024 14:53

Report Date : 06-Jun-2024 14:30 Page 1

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 10-MAR-2022 10:25
End Cal Date : 18-APR-2024 14:35
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Last Edit : 06-Jun-2024 11:07 SV6.i
Curve Type : Average

Calibration File Names:
Level 1: \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Level 2: \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D
Level 3: \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Level 4: \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D
Level 5: \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Level 6: \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Level 7: \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Level 8: \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D

Compound	0.01000 Level 1 / 0.20000 Level 7	0.03000 Level 2 / 0.50000 Level 8	0.05000 Level 3	0.08000 Level 4	0.10000 Level 5	0.15000 Level 6	___ RRF	% RSD
1 1,4-Dioxane	0.26786 / 0.21892	0.20193 / 0.19957	0.21510	0.19340	0.20406	0.21271	0.21419	10.884
$ 9 2-Fluorophenol	##### / #####	##### / #####	#####	#####	#####	#####	#####	#####
$ 13 Phenol-d6	##### / #####	##### / #####	#####	#####	#####	#####	#####	#####

$ 33 Nitrobenzene-d5	0.25417	0.27709	0.33446	0.25539	0.31770	0.31230		
	0.32399	0.32657					0.30021	10.938
$ 69 2-Fluorobiphenyl	1.58567	1.48291	1.52552	1.25243	1.62605	1.59900		
	1.54935	1.60832					1.52866	7.930
$ 105 2,4,6-Tribromophenol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
$ 158 4-Terphenyl-d14	2.22448	1.99483	2.00359	1.46918	2.10278	2.04892		
	2.19122	2.26244					2.03718	12.300

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Form 6I

Initial Calibration Verification (ICV)

Semi-Volatiles by Semivolatiles SIM

Workorder

HS24060747

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

07/23/2024

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 18 24

Workorder HS24060747

RunID 11.D

Semi-Volatiles by Semivolatiles SIM

Sample Matrix LIQUID
Lab Smp Id 14DX ICV-0.08
Data Type MS DATA
File ID 11.D

Fraction SV
Client Smp ID 14DX ICV-0.08
SampleType METHSPIKE
Inj Date 18-APR-2024 1453

Compound	CONC Added	CONC Recovered	% Recovered	Limits	Q
1,4-Dioxane	0.080	0.076	94.6	40-140	
Nitrobenzene-d5	0.080	0.073	91.4	40-140	
2-Fluorobiphenyl	0.080	0.070	88.0	40-140	
4-Terphenyl-d14	0.080	0.071	88.2	40-140	

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: SDGA71345

Instrument ID: SV6 Calibration Date: 06/26/24 Time: 1548

Lab File ID: 04 Init. Calib. Date(s): 03/10/22 04/18/24

Init. Calib. Times: 1025 1435

GC Column: RTX-5SIL MS ID: 0.28 (mm)

COMPOUND	RRF OR AMOUNT	RRF8e-002 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE	
1,4-Dioxane	0.2140000	0.2125897	0.01	-0.66	20.00	AVRG	
2-Fluorophenol	0.0000000		0.01	0.00	20.00	AVRG	<-
Phenol-d6	0.0000000		0.01	0.00	20.00	AVRG	<-
Nitrobenzene-d5	0.3000000	0.2878347	0.01	-4.06	20.00	AVRG	
4-Terphenyl-d14	2.0370000	1.6392092	0.01	-19.53	20.00	AVRG	
2-Fluorobiphenyl	1.5290000	1.4646824	0.01	-4.21	20.00	AVRG	
2,4,6-Tribromophenol	0.0000000		0.01	0.00	20.00	AVRG	<-

FORM VII SV

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: SDGA71345

Instrument ID: SV6 Calibration Date: 06/26/24 Time: 2143

Lab File ID: 22 Init. Calib. Date(s): 03/10/22 04/18/24

Init. Calib. Times: 1025 1435

GC Column: RTX-5SIL MS ID: 0.28 (mm)

COMPOUND	RRF OR AMOUNT	RRF8e-002 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE	
1,4-Dioxane	0.2140000	0.2125897	0.01	-0.66	20.00	AVRG	
2-Fluorophenol	0.0000000		0.01	0.00	20.00	AVRG	<-
Phenol-d6	0.0000000		0.01	0.00	20.00	AVRG	<-
Nitrobenzene-d5	0.3000000	0.2878347	0.01	-4.06	20.00	AVRG	
4-Terphenyl-d14	2.0370000	1.6392092	0.01	-19.53	20.00	AVRG	
2-Fluorobiphenyl	1.5290000	1.4646824	0.01	-4.21	20.00	AVRG	
2,4,6-Tribromophenol	0.0000000		0.01	0.00	20.00	AVRG	<-

FORM VII SV

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: SDGA71345

Instrument ID: SV6 Calibration Date: 06/22/24 Time: 1206

Lab File ID: 04 Init. Calib. Date(s): 03/10/22 04/18/24

Init. Calib. Times: 1025 1435

GC Column: RTX-5SIL MS ID: 0.28 (mm)

COMPOUND	RRF OR AMOUNT	RRF8e-002 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE	
1,4-Dioxane	0.2140000	0.2125897	0.01	-0.66	20.00	AVRG	
2-Fluorophenol	0.0000000		0.01	0.00	20.00	AVRG	<-
Phenol-d6	0.0000000		0.01	0.00	20.00	AVRG	<-
Nitrobenzene-d5	0.3000000	0.2878347	0.01	-4.06	20.00	AVRG	
4-Terphenyl-d14	2.0370000	1.6392092	0.01	-19.53	20.00	AVRG	
2-Fluorobiphenyl	1.5290000	1.4646824	0.01	-4.21	20.00	AVRG	
2,4,6-Tribromophenol	0.0000000		0.01	0.00	20.00	AVRG	<-

FORM VII SV

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: SDGA71345

Instrument ID: SV6 Calibration Date: 06/22/24 Time: 1732

Lab File ID: 21 Init. Calib. Date(s): 03/10/22 04/18/24

Init. Calib. Times: 1025 1435

GC Column: RTX-5SIL MS ID: 0.28 (mm)

COMPOUND	RRF OR AMOUNT	RRF8e-002 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE	
1,4-Dioxane	0.2140000	0.2125897	0.01	-0.66	20.00	AVRG	
2-Fluorophenol	0.0000000		0.01	0.00	20.00	AVRG	<-
Phenol-d6	0.0000000		0.01	0.00	20.00	AVRG	<-
Nitrobenzene-d5	0.3000000	0.2878347	0.01	-4.06	20.00	AVRG	
4-Terphenyl-d14	2.0370000	1.6392092	0.01	-19.53	20.00	AVRG	
2-Fluorobiphenyl	1.5290000	1.4646824	0.01	-4.21	20.00	AVRG	
2,4,6-Tribromophenol	0.0000000		0.01	0.00	20.00	AVRG	<-

FORM VII SV

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: SDGA71345

Lab File ID (Standard): 04 Date Analyzed: 06/26/24

Instrument ID: SV6 Time Analyzed: 1548

GC Column: RTX-5SIL MS ID: 0.28 (mm) Heated Purge: (Y/N) N

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	12 HOUR STD	1922	2.03	6343	3.00	3839	4.59
	UPPER LIMIT	3844	2.53	12686	3.50	7678	5.09
	LOWER LIMIT	961	1.53	3172	2.50	1920	4.09
	CLIENT SAMPLE NO.						
01	HS24060747-0	1577	2.02	4796	3.00	3047	4.59
02	HS24060747-0	1676	2.03	5043	3.00	3244	4.59
03	HS24060747-0	1687	2.02	5302	3.00	3179	4.59
04	HS24060747-0	1444	2.02	4476	3.00	2799	4.59
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: SDGA71345

Lab File ID (Standard): 04 Date Analyzed: 06/26/24

Instrument ID: SV6 Time Analyzed: 1548

GC Column: RTX-5SIL MS ID: 0.28 (mm) Heated Purge: (Y/N) N

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
	12 HOUR STD	7288	5.98	6165	8.51	7002	10.06
	UPPER LIMIT	14576	6.48	12330	9.01	14004	10.56
	LOWER LIMIT	3644	5.48	3083	8.01	3501	9.56
	CLIENT SAMPLE NO.						
01	HS24060747-0	5867	5.99	5447	8.51	5742	10.06
02	HS24060747-0	6362	5.99	6071	8.51	6121	10.06
03	HS24060747-0	6330	5.99	5911	8.51	6055	10.06
04	HS24060747-0	5238	5.99	4815	8.52	4865	10.07
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM VIII SV

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: SDGA71345

Lab File ID (Standard): 04 Date Analyzed: 06/22/24

Instrument ID: SV6 Time Analyzed: 1206

GC Column: RTX-5SIL MS ID: 0.28 (mm) Heated Purge: (Y/N) N

		IS1 (DCB) AREA #	IS1 (DCB) RT #	IS2 (NPT) AREA #	IS2 (NPT) RT #	IS3 (ANT) AREA #	IS3 (ANT) RT #
	12 HOUR STD	1811	2.08	5676	3.06	3511	4.65
	UPPER LIMIT	3622	2.58	11352	3.56	7022	5.15
	LOWER LIMIT	906	1.58	2838	2.56	1756	4.15
	CLIENT SAMPLE NO.						
01	MBLK-213459	2572	2.08	5565	3.06	3352	4.65
02	LCS-213459	1986	2.09	5705	3.06	3741	4.65
03	LCSD-213459	1343	2.08	4116	3.06	2414	4.65
04	HS24060747-1	1969	2.09	6587	3.06	4705	4.66
05	HS24060747-2	1678	2.09	5806	3.06	3944	4.66
06	HS24060747-3	1045	2.08	3450	3.06	1957	4.66
07	HS24060747-4	1838	2.09	6251	3.07	3563	4.66
08	HS24060747-5	1333	2.08	4280	3.06	2434	4.66
09	HS24060747-9	1660	2.09	5479	3.07	3164	4.66
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: SDGA71345

Lab File ID (Standard): 04 Date Analyzed: 06/22/24

Instrument ID: SV6 Time Analyzed: 1206

GC Column: RTX-5SIL MS ID: 0.28 (mm) Heated Purge: (Y/N) N

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
	12 HOUR STD	6709	6.05	6070	8.58	6344	10.17
	UPPER LIMIT	13418	6.55	12140	9.08	12688	10.67
	LOWER LIMIT	3355	5.55	3035	8.08	3172	9.67
	CLIENT SAMPLE NO.						
01	MBLK-213459	6467	6.05	5538	8.59	6082	10.17
02	LCS-213459	6636	6.05	5418	8.59	6432	10.17
03	LCSD-213459	4737	6.05	4310	8.59	4340	10.17
04	HS24060747-1	7464	6.06	7175	8.59	7652	10.17
05	HS24060747-2	6498	6.06	9244	8.59	6574	10.18
06	HS24060747-3	3731	6.06	5205	8.59	3915	10.18
07	HS24060747-4	7013	6.06	6920	8.59	7362	10.18
08	HS24060747-5	4778	6.06	4592	8.59	4798	10.18
09	HS24060747-9	6115	6.06	6109	8.59	6310	10.18
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM VIII SV

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Form 12

Preparation Log

Semi-Volatiles by Semivolatiles SIM

Workorder

HS24060747

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

07/23/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Prep Batch Report

Batch ID:	213459	**Init Sample Weight / Volume:**	1000
Prep Code:	3510_B_SIM	**Final Sample Volume:**	1
Start Date:	13 Jun 2024 07:00 AM	**Original Factor:**	0.001
End Date:	13 Jun 2024 11:00 AM	**Prep Unit Factor:**	1
Technician:	jason.hong	**Prep Unit:**	mL

Sample ID	Fraction	Matrix	pH	Initial Weight / Volume	Final Volume	Prep Factor	Spike Factor	Comments
HS24060619-01	J	Water	7	1000	1	0.001	1	PH ADJ 1/13, NO Cl
HS24060619-02	J	Water	7	1000	1	0.001	1	PH ADJ 1/13, NO Cl
HS24060619-03	J	Water	7	1000	1	0.001	1	PH ADJ 1/13, NO Cl
HS24060619-04	J	Water	7	1000	1	0.001	1	PH ADJ 1/13, NO Cl
HS24060619-05	J	Water	7	1000	1	0.001	1	PH ADJ 1/13, NO Cl
HS24060619-06	J	Water	7	1000	1	0.001	1	PH ADJ 1/13, NO Cl
HS24060694-02	D	Water	7	1000	1	0.001	1	PH ADJ 1/13, NO Cl
HS24060694-03	D	Water	7	1000	1	0.001	1	PH ADJ 1/13, NO Cl
HS24060694-04	D	Water	7	1000	1	0.001	1	PH ADJ 1/13, NO Cl
HS24060694-05	D	Water	7	1000	1	0.001	1	PH ADJ 1/13, NO Cl
HS24060694-07	D	Water	7	1000	1	0.001	1	PH ADJ 1/13, NO Cl
HS24060694-08	D	Water	7	1000	1	0.001	1	PH ADJ 1/13, NO Cl
HS24060747-01	C	Groundwater	10	1000	1	0.001	1	PH ADJ 1/13, NO Cl
HS24060747-02	C	Groundwater	10	1000	1	0.001	1	PH ADJ 1/13, NO Cl
HS24060747-03	D	Groundwater	4	1000	1	0.001	1	PH ADJ 1/13, NO Cl
HS24060747-04	C	Groundwater	7	1000	1	0.001	1	PH ADJ 1/13, NO Cl
HS24060747-05	D	Groundwater	7	1000	1	0.001	1	PH ADJ 1/13, NO Cl
HS24060747-09	D	Groundwater	7	1000	1	0.001	1	PH ADJ 1/13, NO Cl
LCS-213459	A			1000	1	0.001	1	
LCSD-213459	A			1000	1	0.001	1	
MBLK-213459	A			1000	1	0.001	1	

Prep Batch Report

Batch ID:	213459	**Init Sample Weight / Volume:**	1000
Prep Code:	3510_B_SIM	**Final Sample Volume:**	1
Start Date:	13 Jun 2024 07:00 AM	**Original Factor:**	0.001
End Date:	13 Jun 2024 11:00 AM	**Prep Unit Factor:**	1
Technician:	jason.hong	**Prep Unit:**	mL

Stage	Description	Value
3510/3511	Chlorine Strips ID:	3001070211-06
3510_B	pH Paper:	300107092-11
3510_B	Methylene Chloride ID:	300107098-18
3510_B	50% NaoH ID:	300107078-21
3510_B	NaoH Volume (mL):	8
3510_B	50:50 Sulfuric Acid ID:	300107095-06
3510_B	Sulfuric Acid Volume (mL):	8ml
3510_B	Syringe ID:	3510-bsim
3510_B	LCS/MS Spike ID:	3231538-11
3510_B	LCS/MS Volume (mL):	1ml
3510_B	LCS/MS Spike #2 ID (If needed):	3231510-05
3510_B	LCS/MS Spike #2 Volume (mL):	1
3510_B	LCS/MS Spike #3 ID (If needed):	na
3510_B	LCS/MS Spike #3 Volume (mL):	na
3510_B	Sodium Sulfate ID:	3142131-21
3510_B	Glass Wool ID:	300107067-15
3510_B	TurboVap Unit(s):	j (1-6) n (7-9)d()l()
3510_B	TurboVap Temp (C):	39-40
3510_B	TurboVap Pressure (PSI):	9-11
3510_B	Time in TurboVap (Hrs):	1.5 hr
3510_B	Vial Lot:	300107091-08
3510_B	CleanUp Performed:	na
3510_B	Surrogate ID:	320077506
3510_B	Surrogate Volume (mL):	1ml

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Analysis Run Log

Semi-Volatiles by Semivolatiles SIM

Workorder

HS24060747

Client

Bhate Environmental Associates, Inc.

Project

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ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
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SV06 -Logbook

Batch: 60506 **Analyst:** Isaac Tucker

Date: 06-22-2024 **Reviewer:**

Method: 8270D sim/lvi **Laboratory:** Houston

Comments:

#	Samp ID	Type	Analyzed	DF	Init Wt/Vol	Final Vol	File ID	Matrix	Status	pH
1	DFTPP	TUNE	06-22-2024 10:28 am	1.00	0.00 gm	0.00 mL	01.D		Y	NA
2	SLSTD-2.5	CCV	06-22-2024 10:40 am	1.00	1000.00 mL	1000.00 mL	02.D	Liquid	Y	NA
3	PAHLVI-0.025	CCV	06-22-2024 11:46 am	1.00	33.00 mL	2000.00 mL	03.D	Liquid	Y	NA
4	14DX-0.08	CCV	06-22-2024 12:06 pm	1.00	1000.00 mL	1000.00 mL	04.D	Liquid	Y	NA
5	SIM CCB	SAMP	06-22-2024 12:52 pm	1.00	1000.00 mL	1000.00 mL	05.D	Liquid	Y	NA
6	MBLK-213459	MBLK	06-22-2024 01:10 pm	1.00	1000.00 mL	1000.00 mL	06.D	Liquid	Y	NA
7	LCS-213459	LCS	06-22-2024 01:28 pm	1.00	1000.00 mL	1000.00 mL	07.D	Liquid	Y	NA
8	LCSD-213459	LCSD	06-22-2024 01:45 pm	1.00	1000.00 mL	1000.00 mL	08.D	Liquid	Y	NA
9	HS24060694-02	SAMP	06-22-2024 02:02 pm	1.00	1000.00 mL	1000.00 mL	09.D	Liquid	Y	NA
10	HS24060694-03	SAMP	06-22-2024 02:20 pm	1.00	1000.00 mL	1000.00 mL	10.D	Liquid	Y	NA
11	HS24060694-04	SAMP	06-22-2024 02:37 pm	1.00	1000.00 mL	1000.00 mL	11.D	Liquid	Y	NA
12	HS24060694-05	SAMP	06-22-2024 02:55 pm	1.00	1000.00 mL	1000.00 mL	12.D	Liquid	Y	NA
13	HS24060694-07	SAMP	06-22-2024 03:12 pm	1.00	1000.00 mL	1000.00 mL	13.D	Liquid	Y	NA
14	HS24060694-08	SAMP	06-22-2024 03:29 pm	1.00	1000.00 mL	1000.00 mL	14.D	Liquid	Y	NA
15	HS24060747-01	SAMP	06-22-2024 03:47 pm	1.00	1000.00 mL	1000.00 mL	15.D	Liquid	Y	NA
16	HS24060747-02	SAMP	06-22-2024 04:04 pm	1.00	1000.00 mL	1000.00 mL	16.D	Liquid	Y	NA
17	HS24060747-03	SAMP	06-22-2024 04:22 pm	1.00	1000.00 mL	1000.00 mL	17.D	Liquid	Y	NA
18	HS24060747-04	SAMP	06-22-2024 04:39 pm	1.00	1000.00 mL	1000.00 mL	18.D	Liquid	Y	NA
19	HS24060747-05	SAMP	06-22-2024 04:57 pm	1.00	1000.00 mL	1000.00 mL	19.D	Liquid	Y	NA
20	HS24060747-09	SAMP	06-22-2024 05:14 pm	1.00	1000.00 mL	1000.00 mL	20.D	Liquid	Y	NA
21	14DX-0.08	SAMP	06-22-2024 05:32 pm	1.00	1000.00 mL	1000.00 mL	21.D	Liquid	Y	NA
22	SIM CCB	SAMP	06-22-2024 05:49 pm	1.00	1000.00 mL	1000.00 mL	22.D	Liquid	Y	NA
23	HS24060586-02	SAMP	06-22-2024 06:06 pm	100.0(	1000.00 mL	1000.00 mL	23.D	Liquid	Y	NA
24	HS24060586-04	SAMP	06-22-2024 06:24 pm	1000.0	1000.00 mL	1000.00 mL	24.D	Liquid	Y	NA
25	HS24060586-05	SAMP	06-22-2024 06:41 pm	100.0(	1000.00 mL	1000.00 mL	25.D	Liquid	Y	NA
26	HS24060586-06	SAMP	06-22-2024 06:59 pm	10.00	1000.00 mL	1000.00 mL	26.D	Liquid	Y	NA
27	HS24060766-03	SAMP	06-22-2024 07:16 pm	100.0(	1000.00 mL	1000.00 mL	27.D	Liquid	Y	NA
28	HS24060766-04	SAMP	06-22-2024 07:34 pm	10000.(	1000.00 mL	1000.00 mL	28.D	Liquid	Y	NA
29	HS24060766-05	SAMP	06-22-2024 07:51 pm	10000.(	1000.00 mL	1000.00 mL	29.D	Liquid	Y	NA
30	HS24060670-01	SAMP	06-22-2024 08:08 pm	1.00	33.00 mL	2000.00 mL	30.D	Liquid	Y	NA
31	HS24060670-03	SAMP	06-22-2024 08:29 pm	1.00	33.00 mL	2000.00 mL	31.D	Liquid	Y	NA
32	HS24060670-05	SAMP	06-22-2024 09:09 pm	1.00	33.00 mL	2000.00 mL	33.D	Liquid	Y	NA
33	HS24060670-06	SAMP	06-22-2024 09:29 pm	1.00	33.00 mL	2000.00 mL	34.D	Liquid	Y	NA
34	HS24060670-08	SAMP	06-22-2024 09:50 pm	1.00	33.00 mL	2000.00 mL	35.D	Liquid	Y	NA
35	HS24060967-01	SAMP	06-22-2024 10:10 pm	10.00	33.00 mL	2000.00 mL	36.D	Liquid	Y	NA
36	HS24060967-01	SAMP	06-22-2024 10:30 pm	100.0(	33.00 mL	2000.00 mL	37.D	Liquid	Y	NA
37	HS24061064-03	SAMP	06-22-2024 10:50 pm	1.00	33.00 mL	2000.00 mL	38.D	Liquid	Y	NA
38	HS24060619-01	SAMP	06-22-2024 11:10 pm	1.00	1000.00 mL	1000.00 mL	39.D	Liquid	Y	NA
39	HS24060619-02	SAMP	06-22-2024 11:28 pm	1.00	1000.00 mL	1000.00 mL	40.D	Liquid	Y	NA
40	HS24060619-03	SAMP	06-22-2024 11:45 pm	1.00	1000.00 mL	1000.00 mL	41.D	Liquid	Y	NA
41	HS24060619-04	SAMP	06-23-2024 12:02 am	1.00	1000.00 mL	1000.00 mL	42.D	Liquid	Y	NA

SV06 -Logbook

#	Samp ID	Type	Analyzed	DF	Init Wt/Vol	Final Vol	File ID	Matrix	Status	pH
42	HS24060619-05	SAMP	06-23-2024 12:20 am	1.00	1000.00 mL	1000.00 mL	43.D	Liquid	Y	NA
43	HS24060619-06	SAMP	06-23-2024 12:37 am	1.00	1000.00 mL	1000.00 mL	44.D	Liquid	Y	NA

SV06 -Logbook

Batch: 60561 **Analyst:** Isaac Tucker

Date: 06-26-2024 **Reviewer:**

Method: 8270DLVI&SIM **Laboratory:** Houston

Comments:

#	Samp ID	Type	Analyzed	DF	Init Wt/Vol	Final Vol	File ID	Matrix	Status	pH
1	DFTPP	TUNE	06-26-2024 02:31 pm	1.00	0.00 gm	0.00 mL	01.D		Y	NA
2	SLSTD-2.5	CCV	06-26-2024 02:43 pm	1.00	1000.00 mL	1000.00 mL	02.D	Liquid	Y	NA
3	LVIPAH-0.025	CCV	06-26-2024 03:28 pm	1.00	33.00 mL	2000.00 mL	03.D	Liquid	Y	NA
4	SIMDX-0.08	SAMP	06-26-2024 03:48 pm	1.00	1000.00 mL	1000.00 mL	04.D	Liquid	Y	NA
5	MBLK-213973	SAMP	06-26-2024 04:14 pm	1.00	33.00 mL	2000.00 mL	05.D	Liquid	Y	NA
6	LCS-213973	SAMP	06-26-2024 04:34 pm	1.00	33.00 mL	2000.00 mL	06.D	Liquid	Y	NA
7	LCSD-213973	SAMP	06-26-2024 04:54 pm	1.00	33.00 mL	2000.00 mL	07.D	Liquid	Y	NA
8	HS24061154-06	SAMP	06-26-2024 05:15 pm	1.00	33.00 mL	2000.00 mL	08.D	Liquid	Y	NA
9	HS24061157-01	SAMP	06-26-2024 05:35 pm	1.00	33.00 mL	2000.00 mL	09.D	Liquid	Y	NA
10	HS24061159-01	SAMP	06-26-2024 05:55 pm	1.00	33.00 mL	2000.00 mL	10.D	Liquid	Y	NA
11	HS24060670-06	SAMP	06-26-2024 06:15 pm	1.00	33.00 mL	2000.00 mL	11.D	Liquid	Y	NA
12	HS24060670-01	SAMP	06-26-2024 06:36 pm	1.00	33.00 mL	2000.00 mL	12.D	Liquid	Y	NA
13	HS24060670-03	SAMP	06-26-2024 06:56 pm	1.00	33.00 mL	2000.00 mL	13.D	Liquid	Y	NA
14	HS24060670-04	SAMP	06-26-2024 07:16 pm	1.00	33.00 mL	2000.00 mL	14.D	Liquid	Y	NA
15	HS24060670-05	SAMP	06-26-2024 07:36 pm	1.00	33.00 mL	2000.00 mL	15.D	Liquid	Y	NA
16	HS24060694-04	SAMP	06-26-2024 07:57 pm	10.00	1000.00 mL	1000.00 mL	16.D	Liquid	Y	NA
17	HS24060747-01	SAMP	06-26-2024 08:14 pm	50.00	1000.00 mL	1000.00 mL	17.D	Liquid	Y	NA
18	HS24060747-02	SAMP	06-26-2024 08:32 pm	50.00	1000.00 mL	1000.00 mL	18.D	Liquid	Y	NA
19	HS24060747-04	SAMP	06-26-2024 08:49 pm	20.00	1000.00 mL	1000.00 mL	19.D	Liquid	Y	NA
20	HS24060747-05	SAMP	06-26-2024 09:07 pm	1000.0	1000.00 mL	1000.00 mL	20.D	Liquid	Y	NA
21	HS24060747-05	SAMP	06-26-2024 09:24 pm	100.0(	1000.00 mL	1000.00 mL	21.D	Liquid	Y	NA
22	SIMDX-0.08	SAMP	06-26-2024 09:43 pm	1.00	1000.00 mL	1000.00 mL	22.D	Liquid	Y	NA
23	HS24060619-01	SAMP	06-26-2024 10:00 pm	1.00	1000.00 mL	1000.00 mL	23.D	Liquid	Y	NA
24	HS24060619-02	SAMP	06-26-2024 10:18 pm	1.00	1000.00 mL	1000.00 mL	24.D	Liquid	Y	NA
25	HS24060619-03	SAMP	06-26-2024 10:35 pm	1.00	1000.00 mL	1000.00 mL	25.D	Liquid	Y	NA
26	HS24060619-04	SAMP	06-26-2024 10:53 pm	1.00	1000.00 mL	1000.00 mL	26.D	Liquid	Y	NA
27	HS24060619-05	SAMP	06-26-2024 11:10 pm	1.00	1000.00 mL	1000.00 mL	27.D	Liquid	Y	NA
28	HS24060619-06	SAMP	06-26-2024 11:28 pm	1.00	1000.00 mL	1000.00 mL	28.D	Liquid	Y	NA
29	HS24060967-01	SAMP	06-26-2024 11:45 pm	100.0(	1000.00 mL	1000.00 mL	29.D	Liquid	Y	NA
30	HS24060967-01	SAMP	06-27-2024 12:03 am	10.00	1000.00 mL	1000.00 mL	30.D	Liquid	Y	NA

SV06 -Logbook

Batch: 59721 **Analyst:** Marco Gutierrez

Date: 04-18-2024 **Reviewer:**

Method: R8270D 14dx ICAL **Laboratory:** Houston

Comments:

#	Samp ID	Type	Analyzed	DF	Init Wt/Vol	Final Vol	File ID	Matrix	Status	pH
1	DFTPP	TUNE	04-18-2024 10:39 am	1.00	0.00 gm	0.00 mL	01.D		Y	NA
2	SLSTD-2.5	CCV	04-18-2024 10:51 am	1.00	1000.00 mL	1000.00 mL	02.D	Liquid	Y	NA
3	14DX-0.08	ICAL4	04-18-2024 12:24 pm	1.00	1000.00 mL	1000.00 mL	03A.D	Liquid	Y	NA
4	14DX-0.01	ICAL1	04-18-2024 12:49 pm	1.00	1000.00 mL	1000.00 mL	04.D	Liquid	Y	NA
5	14DX-0.03	ICAL2	04-18-2024 01:07 pm	1.00	1000.00 mL	1000.00 mL	05.D	Liquid	Y	NA
6	14DX-0.05	ICAL3	04-18-2024 01:25 pm	1.00	1000.00 mL	1000.00 mL	06.D	Liquid	Y	NA
7	14DX-0.10	ICAL5	04-18-2024 01:42 pm	1.00	1000.00 mL	1000.00 mL	07.D	Liquid	Y	NA
8	14DX-0.15	ICAL6	04-18-2024 02:00 pm	1.00	1000.00 mL	1000.00 mL	08.D	Liquid	Y	NA
9	14DX-0.20	ICAL7	04-18-2024 02:18 pm	1.00	1000.00 mL	1000.00 mL	09.D	Liquid	Y	NA
10	14DX-0.50	ICAL8	04-18-2024 02:35 pm	1.00	1000.00 mL	1000.00 mL	10.D	Liquid	Y	NA
11	14DX ICV-0.08	ICV	04-18-2024 02:53 pm	1.00	1000.00 mL	1000.00 mL	11.D	Liquid	Y	NA
12	SIM CCB	SAMP	04-18-2024 04:10 pm	1.00	1000.00 mL	1000.00 mL	12.D	Liquid	Y	NA
13	MBLK-210508	SAMP	04-18-2024 04:28 pm	1.00	1000.00 mL	1000.00 mL	13.D	Liquid	Y	NA
14	LCS-210508	SAMP	04-18-2024 04:45 pm	1.00	1000.00 mL	1000.00 mL	14.D	Liquid	Y	NA
15	LCSD-210508	SAMP	04-18-2024 05:03 pm	1.00	1000.00 mL	1000.00 mL	15.D	Liquid	Y	NA
16	HS24040786-01	SAMP	04-18-2024 05:21 pm	1.00	1000.00 mL	1000.00 mL	16.D	Liquid	Y	NA
17	14DX-0.08	SAMP	04-18-2024 05:38 pm	1.00	1000.00 mL	1000.00 mL	17.D	Liquid	Y	NA
18	SIM CCB	SAMP	04-18-2024 05:56 pm	1.00	1000.00 mL	1000.00 mL	18.D	Liquid	Y	NA
19	HS24040667-03	SAMP	04-18-2024 06:14 pm	1.00	1000.00 mL	1000.00 mL	19.D	Liquid	Y	NA
20	HS24040816-04	SAMP	04-18-2024 06:31 pm	1.00	1000.00 mL	1000.00 mL	20.D	Liquid	Y	NA
21	HS24040816-05	SAMP	04-18-2024 06:49 pm	1.00	1000.00 mL	1000.00 mL	21.D	Liquid	Y	NA
22	HS24040816-06	SAMP	04-18-2024 07:06 pm	1.00	1000.00 mL	1000.00 mL	22.D	Liquid	Y	NA
23	HS24041063-01	SAMP	04-18-2024 07:24 pm	1.00	1000.00 mL	1000.00 mL	23.D	Liquid	Y	NA
24	HS24041063-02	SAMP	04-18-2024 07:41 pm	1.00	1000.00 mL	1000.00 mL	24.D	Liquid	Y	NA
25	HS24041063-03	SAMP	04-18-2024 07:59 pm	1.00	1000.00 mL	1000.00 mL	25.D	Liquid	Y	NA

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RawData

<textMethods>

Workorder

HS24060747

Client

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Project

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Data File: \\NAHSTWS005\Target\chem\SV6.i\240622.b\01.D Page 1
Report Date: 22-Jun-2024 11:24

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\SV6.i\240622.b\01.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 22-JUN-2024 10:28
Operator : smith Inst ID: SV6.i
Smp Info : DFTPP;DFTPP;3;;DFTPP
Misc Info :
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240622.b\DFTPP.m
Meth Date : 14-Mar-2023 15:58 Linh.Pham Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: NAHSTW7095

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
4.153	5.571	-1.418	198	113440			0.00- 100.00	75.11
4.153	6.357	-2.204	51	26437			10.00- 80.00	23.30
4.153	6.357	-2.204	68	550			0.00- 2.00	1.60
4.153	6.357	-2.204	69	34312			0.00- 0.00	30.25
4.153	6.357	-2.204	70	0	0.0	0.0	0.00- 2.00	0.00
4.153	6.357	-2.204	127	45584			10.00- 80.00	40.18
4.153	6.357	-2.204	197	0	0.0	0.0	0.00- 2.00	0.00
4.153	6.357	-2.204	199	7525			5.00- 9.00	6.63
4.153	6.357	-2.204	275	33112			10.00- 60.00	29.19
4.153	6.357	-2.204	365	4254			1.00- 100.00	3.75
4.153	6.357	-2.204	441	22176			0.01- 99.99	72.91
4.153	6.357	-2.204	442	151040			50.00- 150.00	133.15
4.153	6.357	-2.204	443	30416			15.00- 24.00	20.14

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	23.30
68	Less than 2.00% of mass 69	0.48 (1.60)
69	Mass 69 relative abundance	30.25
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	40.18
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.63
275	10.00 - 60.00% of mass 198	29.19
365	1.00 - 100.00% of mass 198	3.75
441	Present, but less than mass 443	19.55
442	50.00 - 150.00% of mass 198	133.15
443	15.00 - 24.00% of mass 442	26.81 (20.14)

Data File: 01.D
Spectrum: HP ChemStation MS 01.D, Scan 293: 4.154 min. (SUB)
Location of Maximum: 442.00
Number of points: 224

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.10	167	124.90	551	197.90	113440	282.90	353
38.00	278	127.00	45584	198.90	7525	284.00	281
39.00	1825	128.10	3314	199.90	592	284.90	438
49.20	184	129.00	16928	201.50	494	293.00	548
50.10	7572	130.00	1494	202.90	653	294.00	180
51.10	26432	130.90	440	204.00	3530	295.00	314
52.00	1410	134.00	422	205.00	5927	296.00	8152
55.00	186	135.00	1314	206.00	28864	296.90	969
56.00	947	135.90	513	207.00	3936	301.90	226
57.00	1880	137.00	690	208.00	870	303.00	994
61.00	299	141.00	2204	209.00	201	303.90	272
61.90	381	142.00	733	210.90	1293	307.90	172
63.00	1232	143.00	415	215.00	214	313.90	442
64.10	195	145.90	317	215.90	498	314.90	965
65.00	531	147.00	1053	217.00	7155	316.00	537
68.00	550	148.00	1840	217.90	875	320.90	293
69.00	34312	149.00	406	221.00	6870	321.80	175
73.00	202	151.20	176	223.00	1787	323.00	3352
74.00	2968	151.90	310	224.00	16138	324.00	642
75.00	5353	152.90	813	225.00	4345	326.90	661
76.00	1659	153.90	617	226.00	593	328.10	309
77.10	34416	155.00	1094	227.00	6617	332.90	270
78.10	2174	156.00	1903	227.90	958	334.00	2081
79.00	2389	157.10	430	229.00	1218	335.00	365
80.00	2025	157.90	484	229.80	237	341.00	253
81.00	2816	159.00	319	231.00	637	345.90	769
81.90	596	160.00	716	233.80	403	352.00	921
83.10	631	161.00	1010	234.90	469	353.00	479
83.90	16	161.80	343	236.00	286	354.00	1119
85.00	397	165.00	1016	237.00	382	354.80	211
86.00	727	165.90	782	238.90	397	365.00	4254
87.10	296	167.00	4504	239.90	339	366.00	591
90.90	659	168.00	1618	240.80	429	370.90	309
92.00	646	169.10	291	241.90	1030	372.10	1473
93.00	4363	170.70	289	243.00	844	372.90	279
93.90	349	172.00	485	244.00	13808	382.90	465
95.90	178	172.80	567	245.00	1736	390.00	213
98.00	2791	174.00	1202	246.00	2287	392.00	164
99.00	2068	175.00	2123	246.80	396	400.90	174
100.00	254	176.10	918	248.10	159	402.00	869
101.00	1294	177.00	565	249.00	460	403.00	855
102.90	453	178.00	384	253.00	379	403.90	284
104.00	815	179.00	3583	255.00	70512	421.00	1005
105.00	814	180.00	2368	256.00	11139	421.90	902
106.00	403	181.00	1162	257.00	920	423.00	7425

107.00	10747	183.90	352	258.00	3443	424.00	1395
107.90	1838	184.90	1635	258.90	565	438.40	329
108.90	403	186.00	13976	265.00	1567	439.40	555
110.00	22088	187.00	3775	271.00	156	441.10	22176
111.00	2965	187.90	455	272.00	199	442.00	151040
111.90	440	189.00	823	273.00	2347	443.00	30416
115.90	762	191.00	337	274.00	6456	444.00	2813
117.00	8189	192.00	1114	275.00	33112	444.90	173
118.00	572	193.00	1329	276.00	4501		
121.90	710	193.90	301	276.90	2352		
123.00	1431	195.00	227	278.00	330		
123.90	440	196.00	3228	282.00	186		

Data File: \\NAHSTWS005\Target\chem\SV6.i\240622.b\01.D Page 1

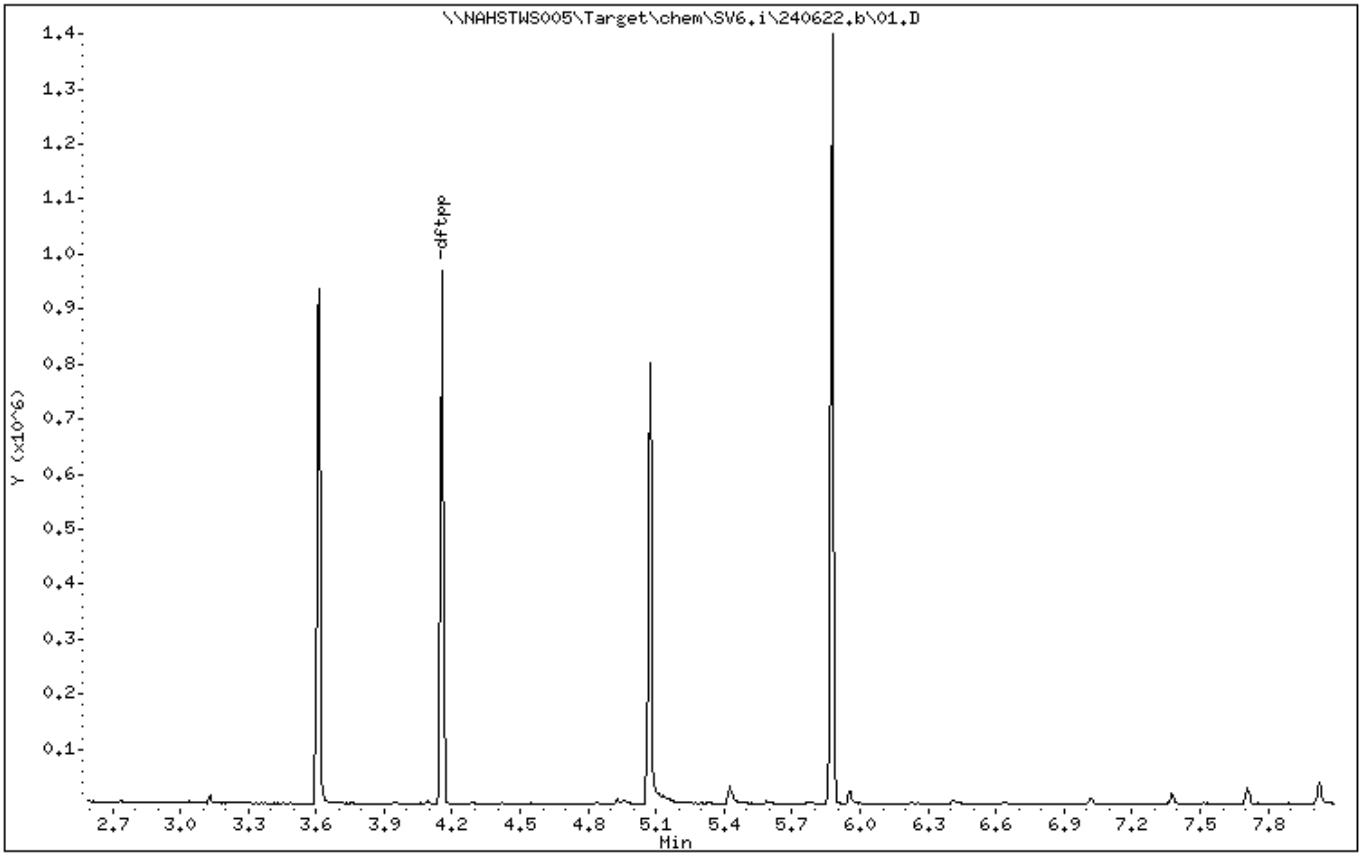
Date : 22-JUN-2024 10:28

Client ID: DFTPP Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS Column diameter: 0.25



Data File: \\NAHSTWS005\Target\chem\SV6.i\240622.b\01.D

Date : 22-JUN-2024 10:28

Client ID: DFTPP

Instrument: SV6.i

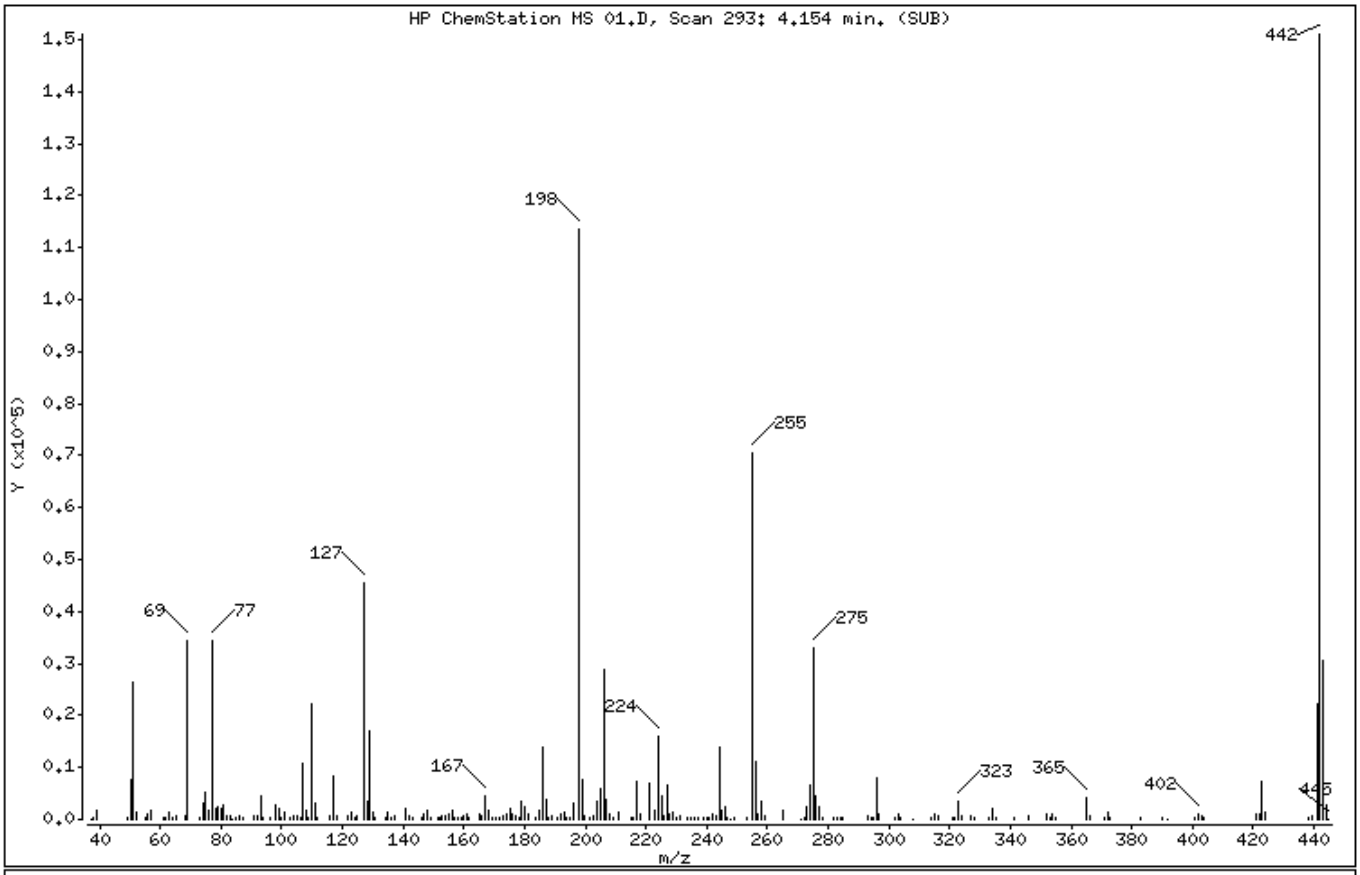
Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	23.30
68	Less than 2.00% of mass 69	0.48 (1.60)
69	Mass 69 relative abundance	30.25
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	40.18
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.63
275	10.00 - 60.00% of mass 198	29.19
365	1.00 - 100.00% of mass 198	3.75
441	Present, but less than mass 443	19.55
442	50.00 - 150.00% of mass 198	133.15
443	15.00 - 24.00% of mass 442	26.81 (20.14)

Data File: \\NAHSTWS005\Target\chem\SV6.i\240622.b\01.D

Date : 22-JUN-2024 10:28

Client ID: DFTPP Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS Column diameter: 0.25

Data File: 01.D
Spectrum: HP ChemStation MS 01.D, Scan 293: 4.154 min. (SUB)
Location of Maximum: 442.00
Number of points: 224

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.10	167	124.90	551	197.90	113440	282.90	353
38.00	278	127.00	45584	198.90	7525	284.00	281
39.00	1825	128.10	3314	199.90	592	284.90	438
49.20	184	129.00	16928	201.50	494	293.00	548
50.10	7572	130.00	1494	202.90	653	294.00	180
51.10	26432	130.90	440	204.00	3530	295.00	314
52.00	1410	134.00	422	205.00	5927	296.00	8152
55.00	186	135.00	1314	206.00	28864	296.90	969
56.00	947	135.90	513	207.00	3936	301.90	226
57.00	1880	137.00	690	208.00	870	303.00	994
61.00	299	141.00	2204	209.00	201	303.90	272
61.90	381	142.00	733	210.90	1293	307.90	172
63.00	1232	143.00	415	215.00	214	313.90	442
64.10	195	145.90	317	215.90	498	314.90	965
65.00	531	147.00	1053	217.00	7155	316.00	537
68.00	550	148.00	1840	217.90	875	320.90	293
69.00	34312	149.00	406	221.00	6870	321.80	175
73.00	202	151.20	176	223.00	1787	323.00	3352
74.00	2968	151.90	310	224.00	16138	324.00	642
75.00	5353	152.90	813	225.00	4345	326.90	661
76.00	1659	153.90	617	226.00	593	328.10	309
77.10	34416	155.00	1094	227.00	6617	332.90	270
78.10	2174	156.00	1903	227.90	958	334.00	2081
79.00	2389	157.10	430	229.00	1218	335.00	365
80.00	2025	157.90	484	229.80	237	341.00	253
81.00	2816	159.00	319	231.00	637	345.90	769
81.90	596	160.00	716	233.80	403	352.00	921
83.10	631	161.00	1010	234.90	469	353.00	479
83.90	16	161.80	343	236.00	286	354.00	1119
85.00	397	165.00	1016	237.00	382	354.80	211
86.00	727	165.90	782	238.90	397	365.00	4254
87.10	296	167.00	4504	239.90	339	366.00	591
90.90	659	168.00	1618	240.80	429	370.90	309
92.00	646	169.10	291	241.90	1030	372.10	1473
93.00	4363	170.70	289	243.00	844	372.90	279

Data File: \\NAHSTWS005\Target\chem\SV6.i\240622.b\01.D

Date : 22-JUN-2024 10:28

Client ID: DFTPP Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS Column diameter: 0.25

Data File: 01.D
Spectrum: HP ChemStation MS 01.D, Scan 293: 4.154 min. (SUB)
Location of Maximum: 442.00
Number of points: 224

m/z	Y	m/z	Y	m/z	Y	m/z	Y
93.90	349	172.00	485	244.00	13808	382.90	465
95.90	178	172.80	567	245.00	1736	390.00	213
98.00	2791	174.00	1202	246.00	2287	392.00	164
99.00	2068	175.00	2123	246.80	396	400.90	174
100.00	254	176.10	918	248.10	159	402.00	869
101.00	1294	177.00	565	249.00	460	403.00	855
102.90	453	178.00	384	253.00	379	403.90	284
104.00	815	179.00	3583	255.00	70512	421.00	1005
105.00	814	180.00	2368	256.00	11139	421.90	902
106.00	403	181.00	1162	257.00	920	423.00	7425
107.00	10747	183.90	352	258.00	3443	424.00	1395
107.90	1838	184.90	1635	258.90	565	438.40	329
108.90	403	186.00	13976	265.00	1567	439.40	555
110.00	22088	187.00	3775	271.00	156	441.10	22176
111.00	2965	187.90	455	272.00	199	442.00	151040
111.90	440	189.00	823	273.00	2347	443.00	30416
115.90	762	191.00	337	274.00	6456	444.00	2813
117.00	8189	192.00	1114	275.00	33112	444.90	173
118.00	572	193.00	1329	276.00	4501		
121.90	710	193.90	301	276.90	2352		
123.00	1431	195.00	227	278.00	330		
123.90	440	196.00	3228	282.00	186		

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240622.b\04.D
Lab Smp Id: 14DX-0.08 Client Smp ID: 14DX-0.08
Inj Date : 22-JUN-2024 12:06
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240622.b\DXSIM.m
Meth Date : 22-Jun-2024 12:47 SV6.i Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7095

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	2.080	2.080	(1.000)	1811	0.10000	(aM)
* 45 Naphthalene-d8	136	3.063	3.063	(1.000)	5676	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.488	2.488	(0.812)	1307	0.08000	0.07670(M)
* 86 Acenaphthene-d10	164	4.654	4.654	(1.000)	3511	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.052	4.052	(0.871)	4114	0.08000	0.07665(M)
* 126 Phenanthrene-d10	188	6.054	6.054	(1.000)	6709	0.10000	(M)
* 182 Chrysene-d12	240	8.581	8.581	(1.000)	6070	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.618	7.618	(0.888)	7960	0.08000	0.06437(M)
* 198 Perylene-d12	264	10.174	10.174	(1.000)	6344	0.10000	
1 1,4-Dioxane	58	0.834	0.834	(0.401)	308	0.08000	0.07940(QM)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240622.b\04.D

Date : 22-JUN-2024 12:06

Client ID: 14DX-0.08

Instrument: SV6.i

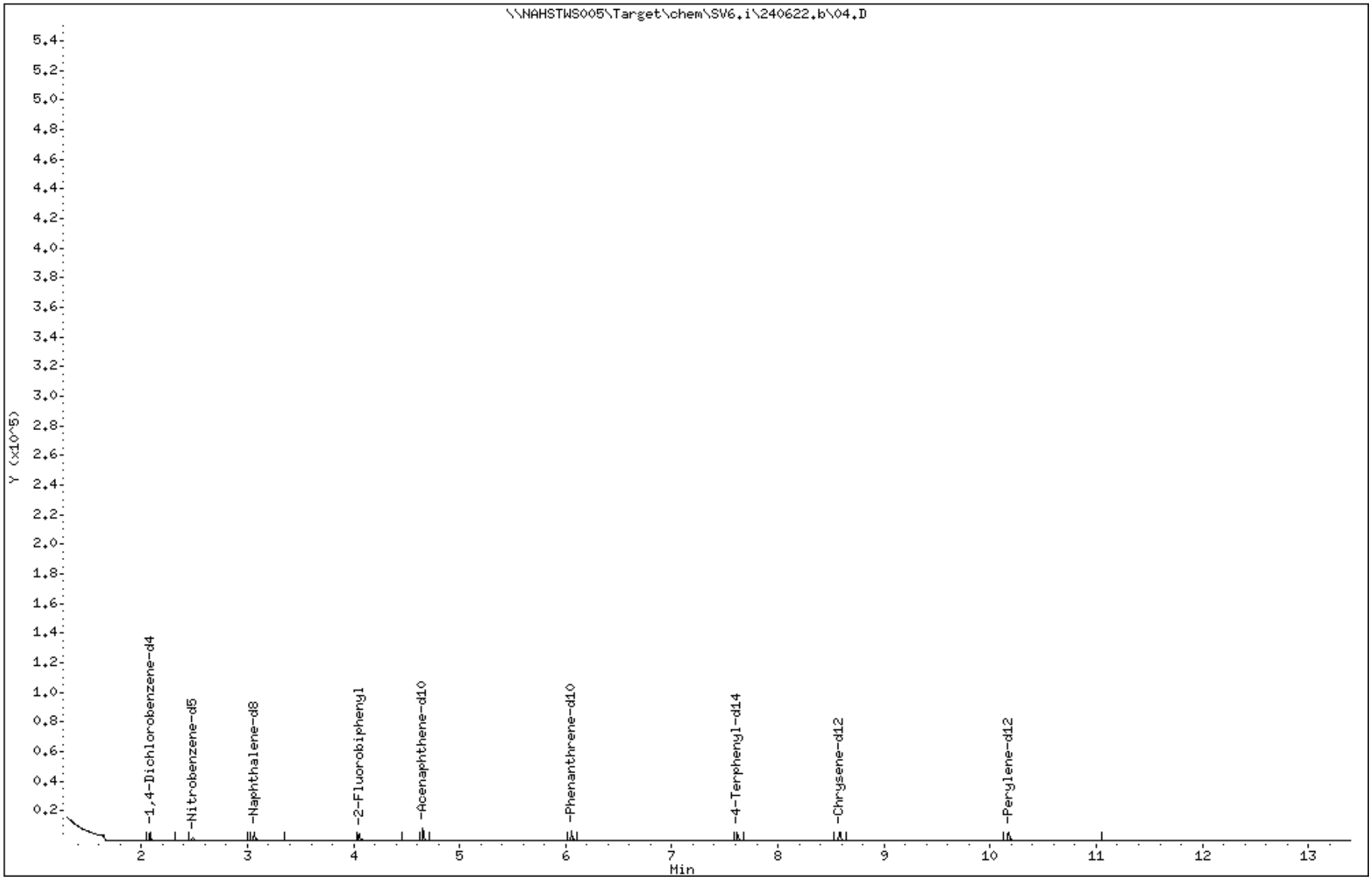
Sample Info: 14DX-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



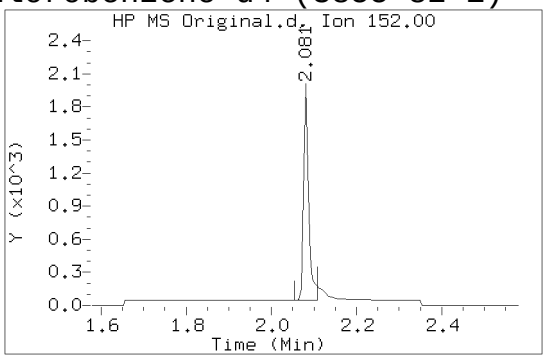
Data File : \\NAHSTWS005\Target\chem\SV6.i\240622.b\04.D
Inj Date : 22-JUN-2024 12:06
InstruID : SV6.i
LabSampID : 14DX-0.08

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

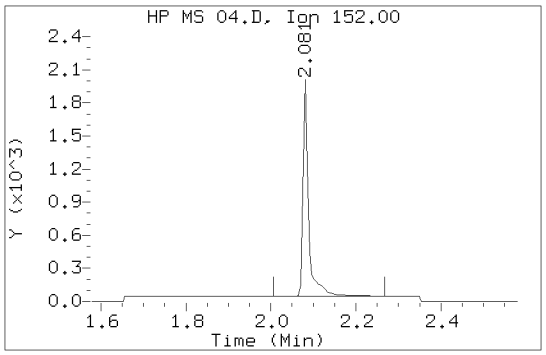
BEFORE

MASS
152
AREA
1638
HEIGHT
1964
22-Jun-2024
12:20
ALSHS
Server



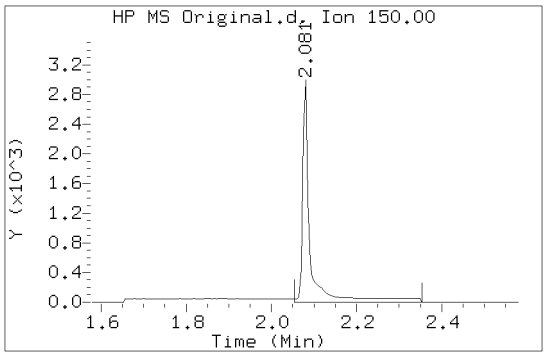
AFTER

MASS
152
AREA
1811
HEIGHT
1964
22-Jun-2024
12:47



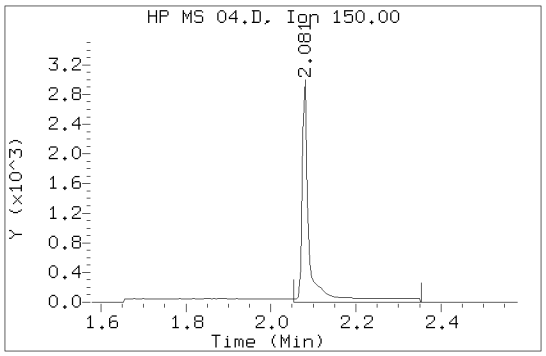
BEFORE

MASS
150
AREA
3726
HEIGHT
2997
22-Jun-2024
12:20
ALSHS
Server



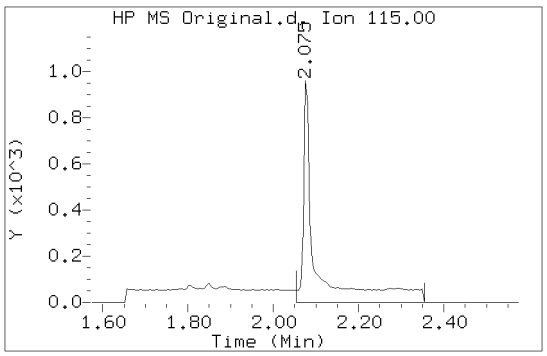
AFTER

MASS
150
AREA
3726
HEIGHT
2997
22-Jun-2024
12:47



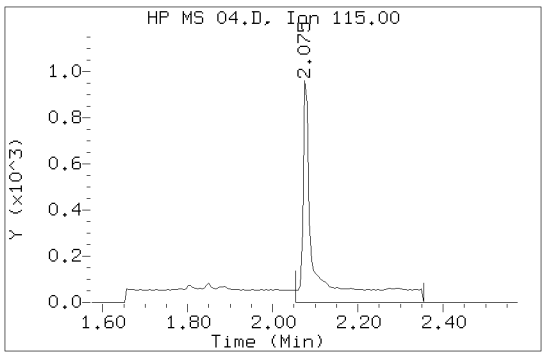
BEFORE

MASS
115
AREA
1904
HEIGHT
961
22-Jun-2024
12:20
ALSHS
Server



AFTER

MASS
115
AREA
1904
HEIGHT
961
22-Jun-2024
12:47

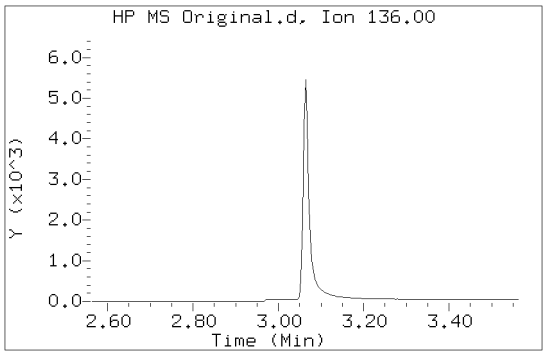


Naphthalene-d8 (1146-65-2)

Reason Code:

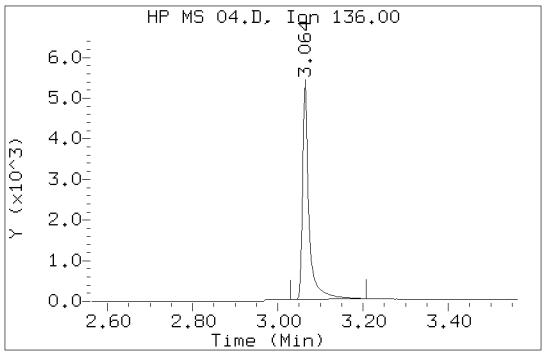
BEFORE

MASS
136
AREA
0
HEIGHT
0
22-Jun-2024
12:20
ALSHS
Server



AFTER

MASS
136
AREA
5676
HEIGHT
5406
22-Jun-2024
12:47



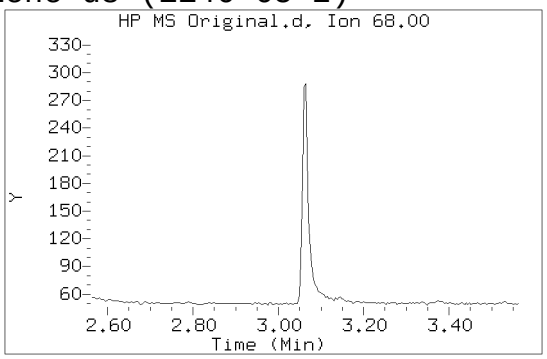
Data File : \\NAHSTWS005\Target\chem\SV6.i\240622.b\04.D
Inj Date : 22-JUN-2024 12:06
InstruID : SV6.i
LabSampID : 14DX-0.08

Naphthalene-d8 (1146-65-2)

Reason Code:

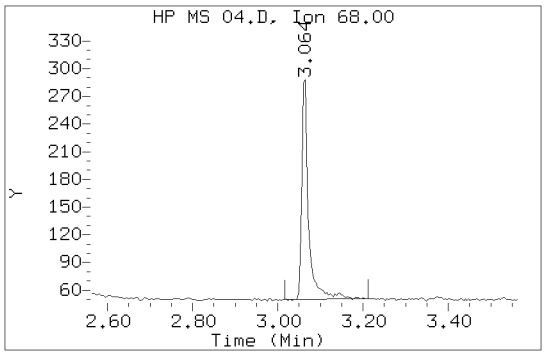
BEFORE

MASS
68
AREA
0
HEIGHT
0
22-Jun-2024
12:20
ALSHS
Server



AFTER

MASS
68
AREA
266
HEIGHT
237
22-Jun-2024
12:47

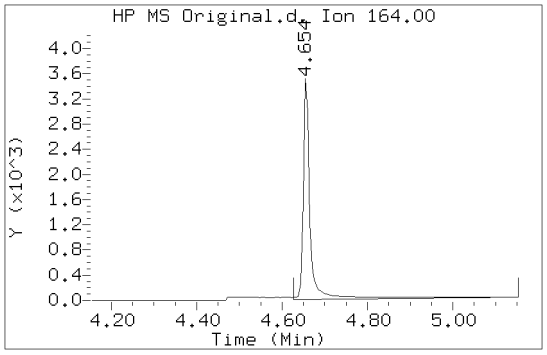


Acenaphthene-d10 (15067-26-2)

Reason Code:

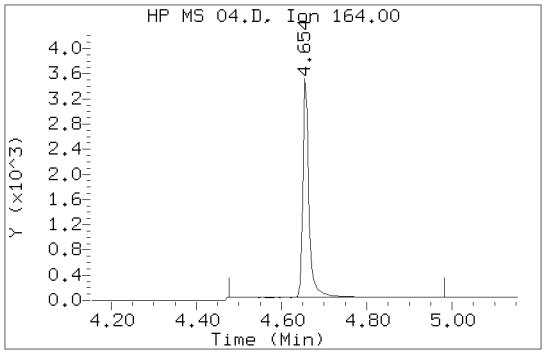
BEFORE

MASS
164
AREA
4121
HEIGHT
3509
22-Jun-2024
12:20
ALSHS
Server



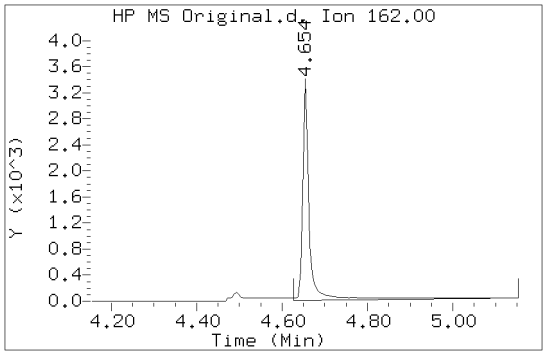
AFTER

MASS
164
AREA
3511
HEIGHT
3474
22-Jun-2024
12:47



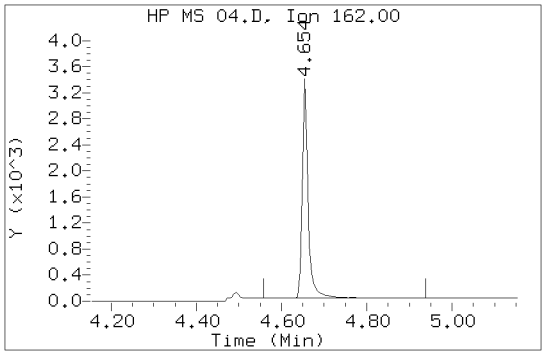
BEFORE

MASS
162
AREA
3837
HEIGHT
3400
22-Jun-2024
12:20
ALSHS
Server



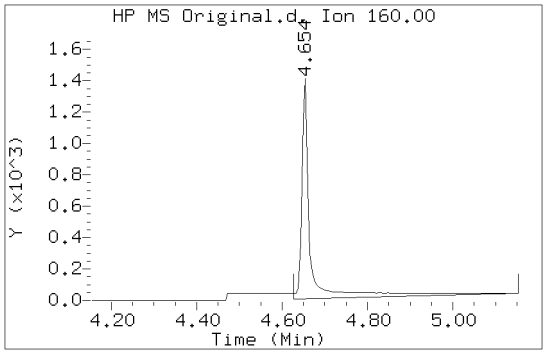
AFTER

MASS
162
AREA
3244
HEIGHT
3365
22-Jun-2024
12:47



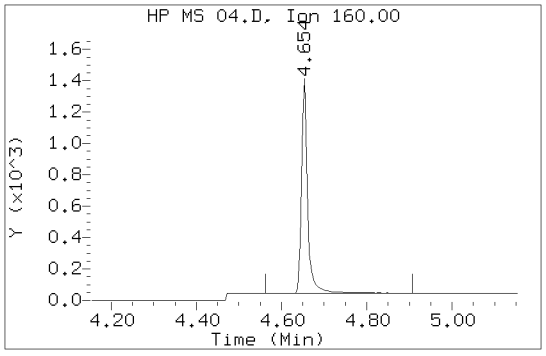
BEFORE

MASS
160
AREA
1948
HEIGHT
1401
22-Jun-2024
12:20
ALSHS
Server



AFTER

MASS
160
AREA
1370
HEIGHT
1368
22-Jun-2024
12:47



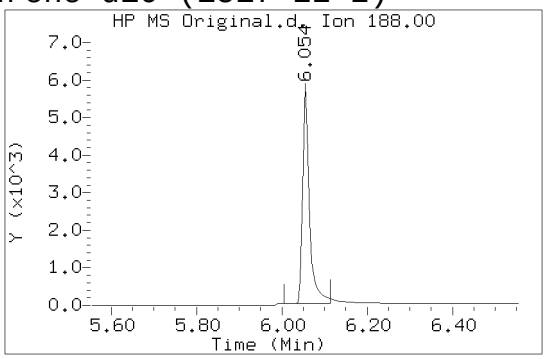
Data File : \\NAHSTWS005\Target\chem\SV6.i\240622.b\04.D
Inj Date : 22-JUN-2024 12:06
InstruID : SV6.i
LabSampID : 14DX-0.08

Phenanthrene-d10 (1517-22-2)

Reason Code:

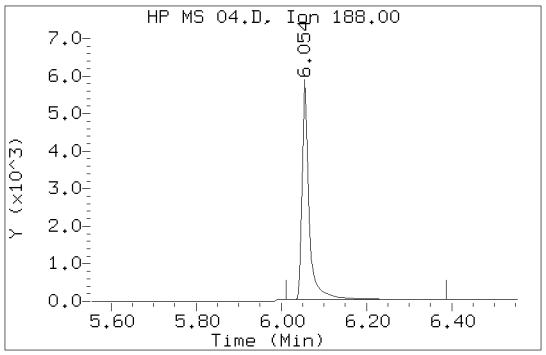
BEFORE

MASS
188
AREA
6410
HEIGHT
5860
22-Jun-2024
12:20
ALSHS
Server



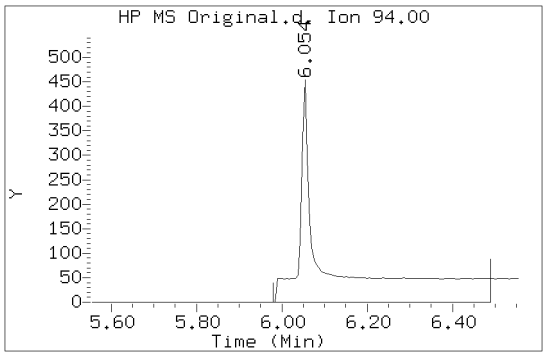
AFTER

MASS
188
AREA
6709
HEIGHT
5859
22-Jun-2024
12:47



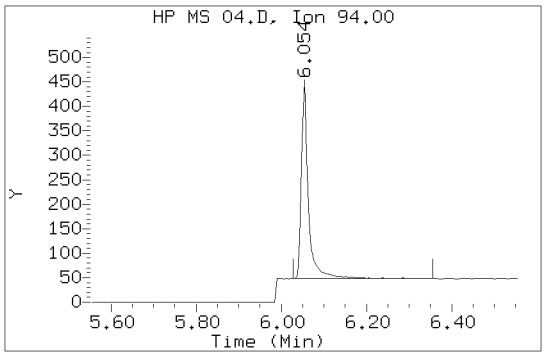
BEFORE

MASS
94
AREA
1913
HEIGHT
454
22-Jun-2024
12:20
ALSHS
Server



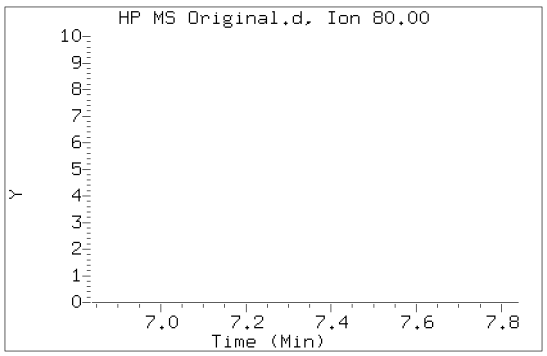
AFTER

MASS
94
AREA
459
HEIGHT
406
22-Jun-2024
12:47



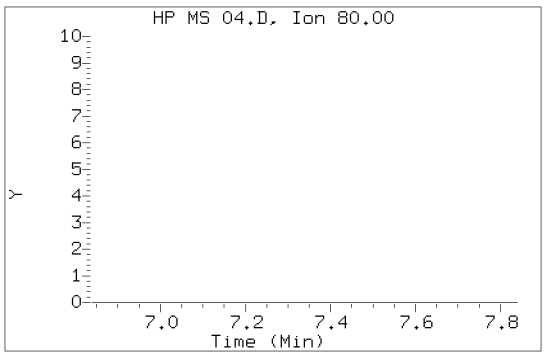
BEFORE

MASS
80
AREA
0
HEIGHT
0
22-Jun-2024
12:20
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
22-Jun-2024
12:47

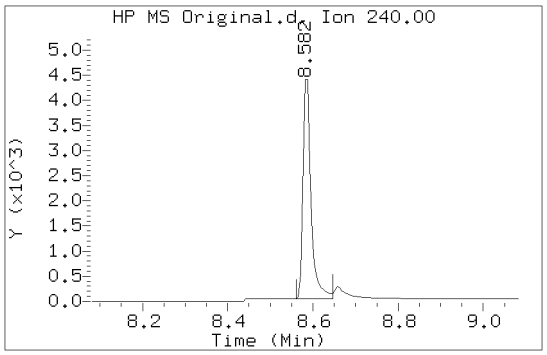


Chrysene-d12 (1719-03-5)

Reason Code:

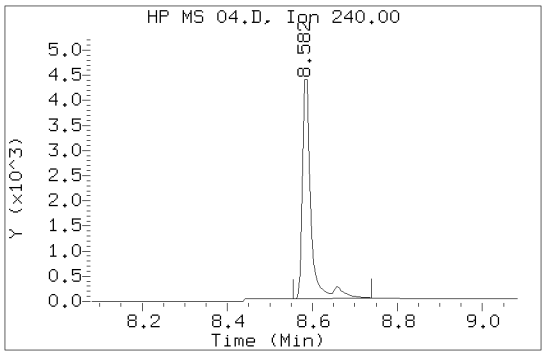
BEFORE

MASS
240
AREA
5699
HEIGHT
4362
22-Jun-2024
12:20
ALSHS
Server



AFTER

MASS
240
AREA
6070
HEIGHT
4359
22-Jun-2024
12:47



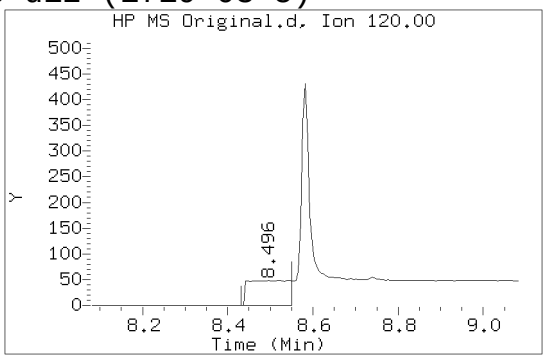
Data File : \\NAHSTWS005\Target\chem\SV6.i\240622.b\04.D
Inj Date : 22-JUN-2024 12:06
InstruID : SV6.i
LabSampID : 14DX-0.08

Chrysene-d12 (1719-03-5)

Reason Code:

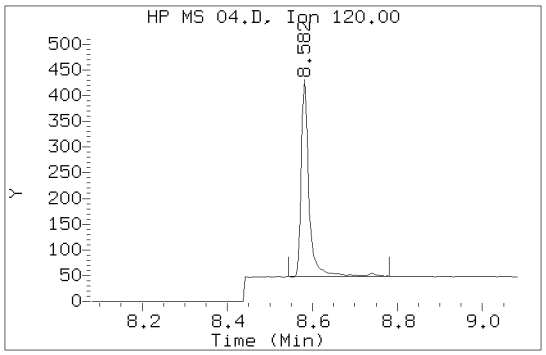
BEFORE

MASS
120
AREA
319
HEIGHT
48
22-Jun-2024
12:20
ALSHS
Server



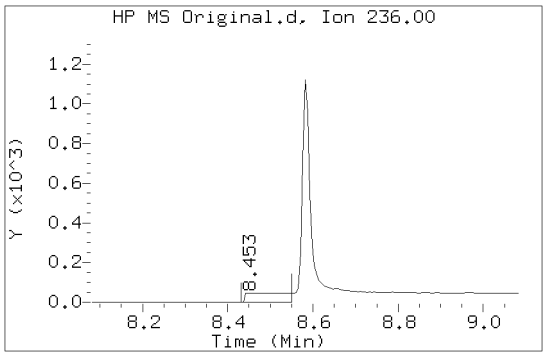
AFTER

MASS
120
AREA
483
HEIGHT
382
22-Jun-2024
12:47



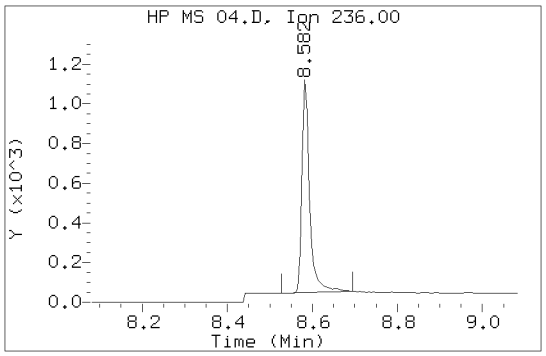
BEFORE

MASS
236
AREA
312
HEIGHT
47
22-Jun-2024
12:20
ALSHS
Server



AFTER

MASS
236
AREA
1327
HEIGHT
1072
22-Jun-2024
12:47

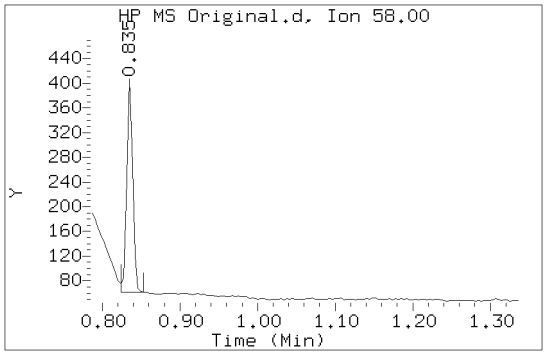


1,4-Dioxane ()

Reason Code:

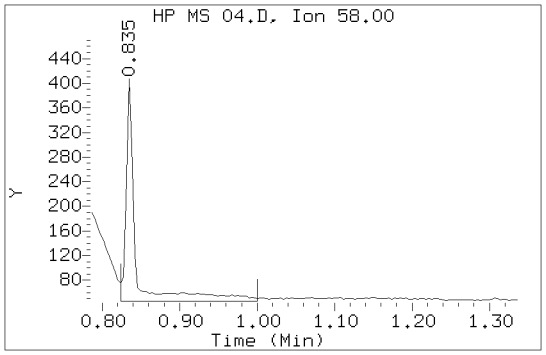
BEFORE

MASS
58
AREA
183
HEIGHT
345
22-Jun-2024
12:20
ALSHS
Server



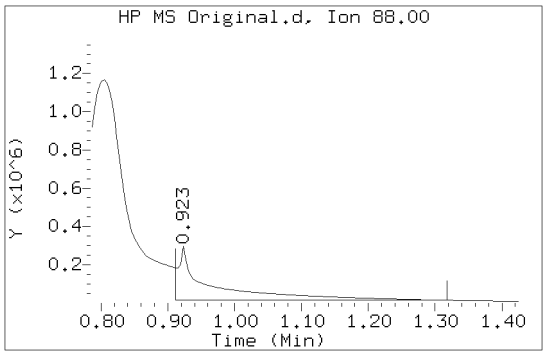
AFTER

MASS
58
AREA
308
HEIGHT
361
22-Jun-2024
12:47



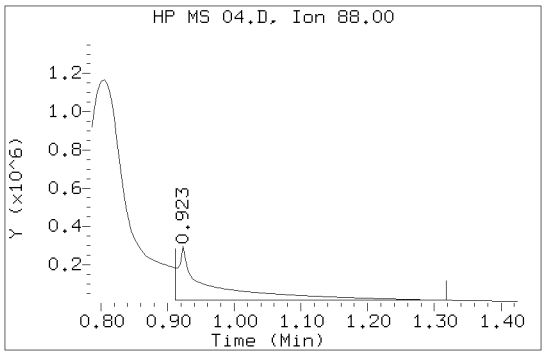
BEFORE

MASS
88
AREA
926312
HEIGHT
282455
22-Jun-2024
12:20
ALSHS
Server



AFTER

MASS
88
AREA
926312
HEIGHT
282455
22-Jun-2024
12:47



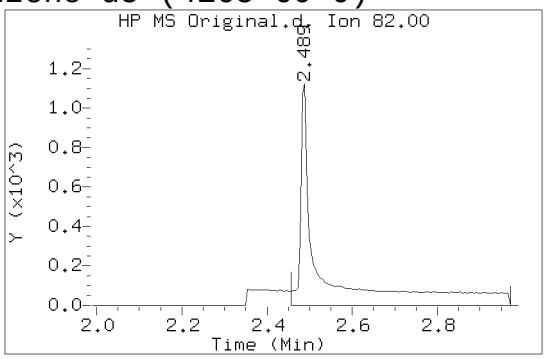
Data File : \\NAHSTWS005\Target\chem\SV6.i\240622.b\04.D
Inj Date : 22-JUN-2024 12:06
InstruID : SV6.i
LabSampID : 14DX-0.08

Nitrobenzene-d5 (4165-60-0)

Reason Code:

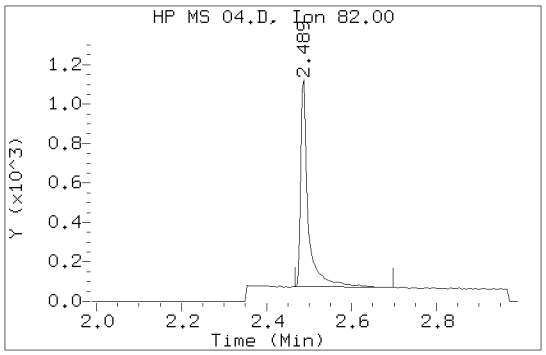
BEFORE

MASS
82
AREA
3439
HEIGHT
1124
22-Jun-2024
12:20
ALSHS
Server



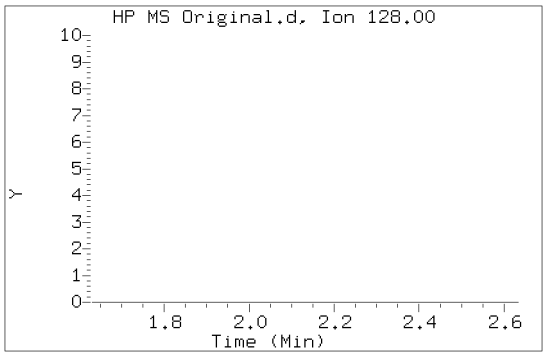
AFTER

MASS
82
AREA
1307
HEIGHT
1050
22-Jun-2024
12:47



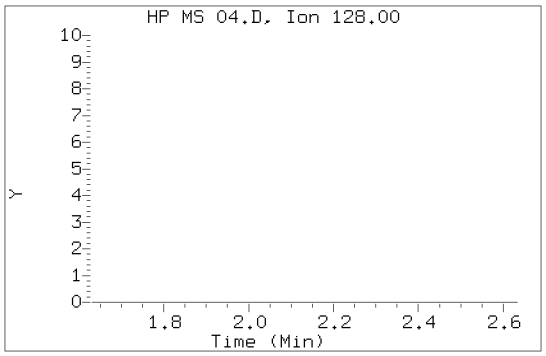
BEFORE

MASS
128
AREA
0
HEIGHT
0
22-Jun-2024
12:20
ALSHS
Server



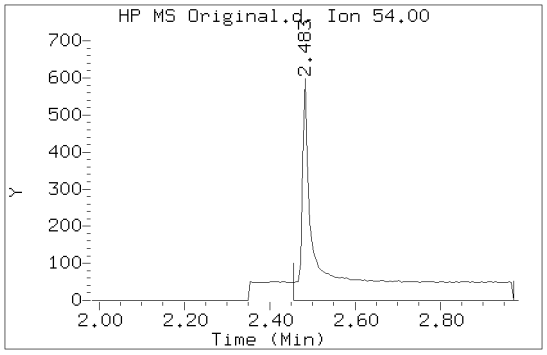
AFTER

MASS
128
AREA
0
HEIGHT
0
22-Jun-2024
12:47



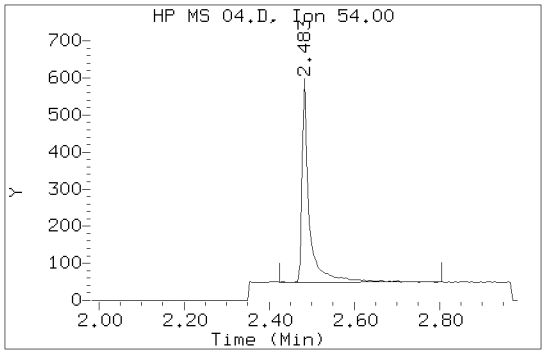
BEFORE

MASS
54
AREA
2169
HEIGHT
598
22-Jun-2024
12:20
ALSHS
Server



AFTER

MASS
54
AREA
641
HEIGHT
548
22-Jun-2024
12:47

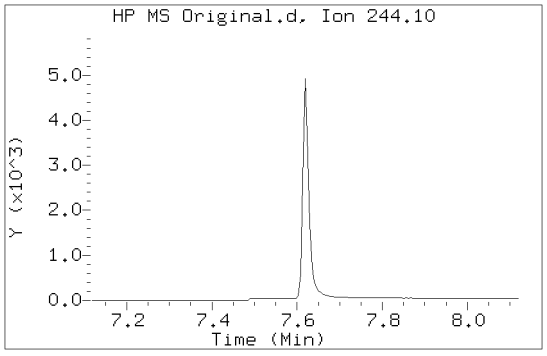


4-Terphenyl-d14 (1718-51-0)

Reason Code:

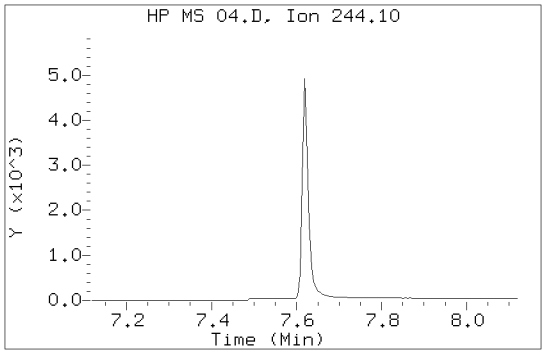
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
22-Jun-2024
12:20
ALSHS
Server



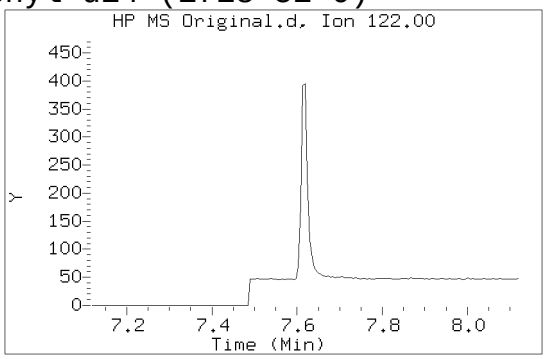
AFTER

MASS
244.1
AREA
7960
HEIGHT
4927
22-Jun-2024
12:47

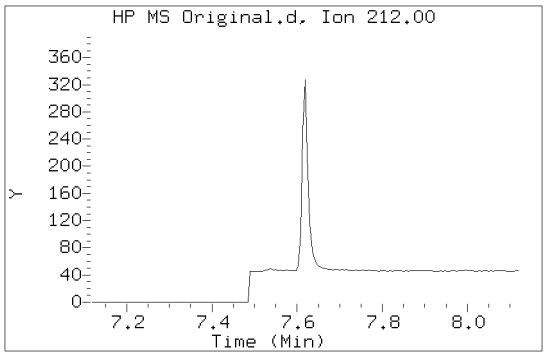


Data File : \\NAHSTWS005\Target\chem\SV6.i\240622.b\04.D
Inj Date : 22-JUN-2024 12:06
InstruID : SV6.i
LabSampID : 14DX-0.08

4-Terphenyl-d14 (1718-51-0)

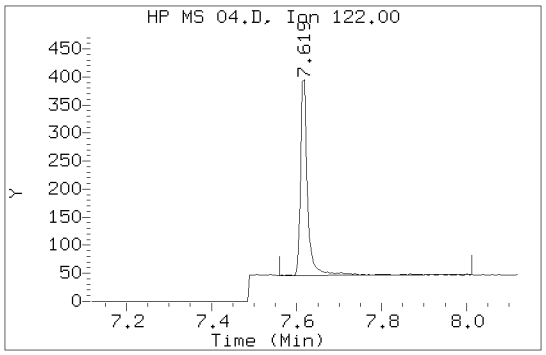


BEFORE
MASS
122
AREA
0
HEIGHT
0
22-Jun-2024
12:20
ALSHS
Server

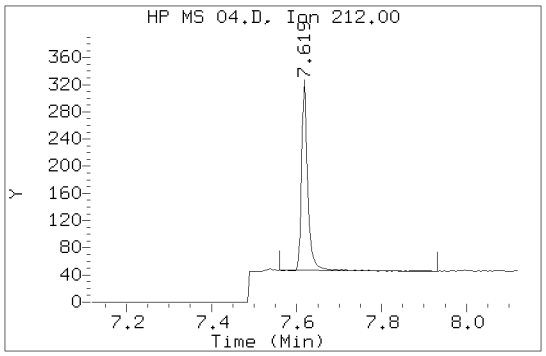


BEFORE
MASS
212
AREA
0
HEIGHT
0
22-Jun-2024
12:20
ALSHS
Server

Reason Code:

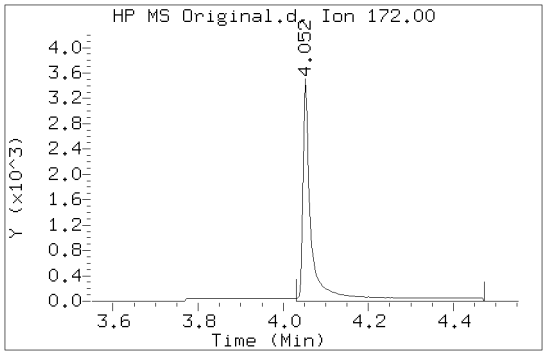


AFTER
MASS
122
AREA
406
HEIGHT
348
22-Jun-2024
12:47

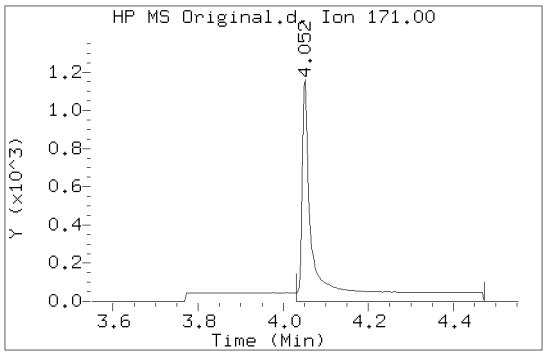


AFTER
MASS
212
AREA
284
HEIGHT
280
22-Jun-2024
12:47

2-Fluorobiphenyl (321-60-8)

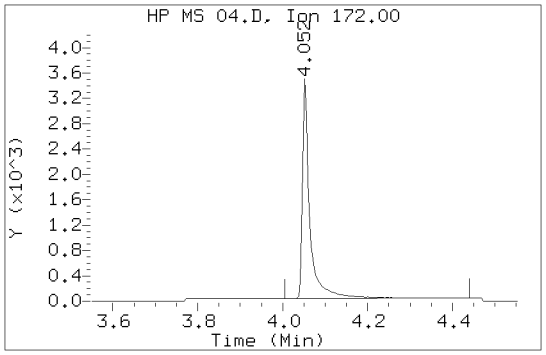


BEFORE
MASS
172
AREA
5351
HEIGHT
3507
22-Jun-2024
12:20
ALSHS
Server

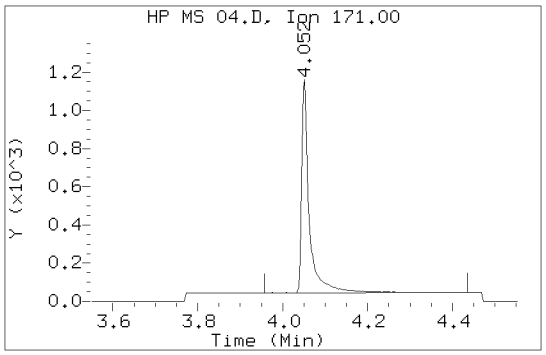


BEFORE
MASS
171
AREA
2588
HEIGHT
1161
22-Jun-2024
12:20
ALSHS
Server

Reason Code:



AFTER
MASS
172
AREA
4114
HEIGHT
3461
22-Jun-2024
12:47



AFTER
MASS
171
AREA
1379
HEIGHT
1115
22-Jun-2024
12:47

Data File: \\NAHSTWS005\Target\chem\SV6.i\240622.b\06.D Page 1
Report Date: 24-Jun-2024 15:39

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240622.b\06.D
Lab Smp Id: MBLK-213459
Inj Date : 22-JUN-2024 13:10
Operator : LG Inst ID: SV6.i
Smp Info : MBLK-213459
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240622.b\DXSIM.m
Meth Date : 22-Jun-2024 12:47 SV6.i Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 6 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7015

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	2.080	2.080	(1.000)	2572	0.10000	(aQ)
* 45 Naphthalene-d8	136	3.063	3.063	(1.000)	5565	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.488	2.488	(0.812)	1212	0.07255	0.07255(M)
* 86 Acenaphthene-d10	164	4.654	4.654	(1.000)	3352	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.052	4.052	(0.871)	3618	0.07061	0.07061(M)
* 126 Phenanthrene-d10	188	6.054	6.054	(1.000)	6467	0.10000	(M)
* 182 Chrysene-d12	240	8.587	8.581	(1.000)	5538	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.618	7.618	(0.887)	7396	0.06556	0.06556(M)
* 198 Perylene-d12	264	10.174	10.174	(1.000)	6082	0.10000	(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240622.b\06.D

Date : 22-JUN-2024 13:10

Client ID:

Instrument: SV6.i

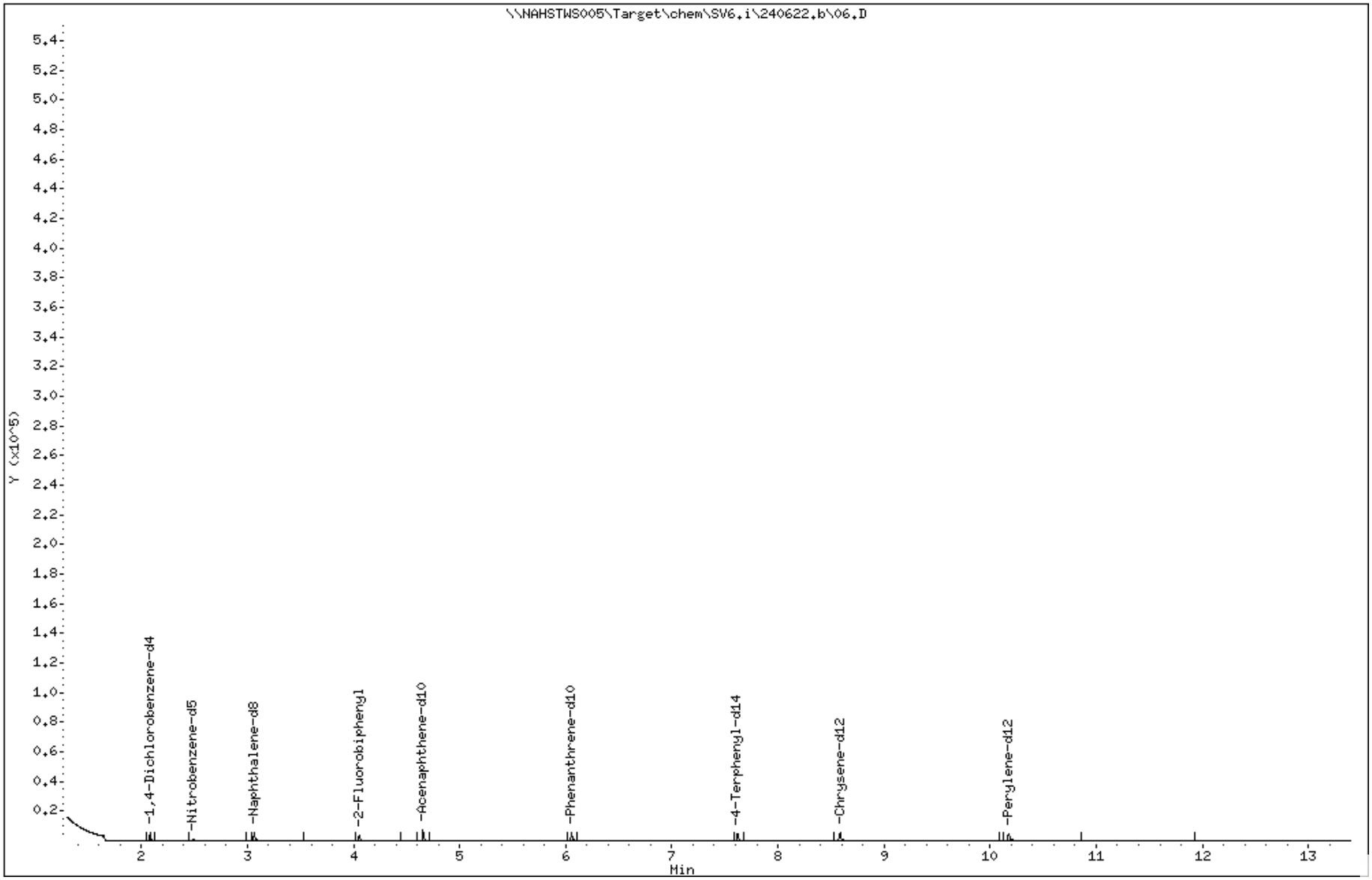
Sample Info: MBLK-213459

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



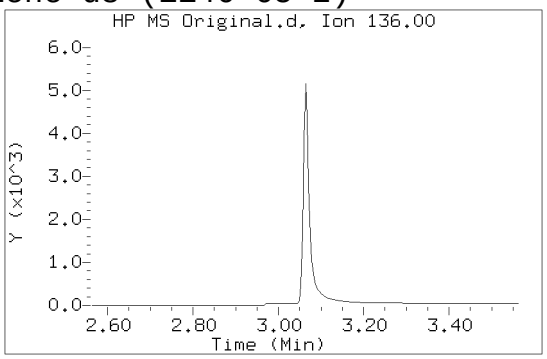
Data File : \\NAHSTWS005\Target\chem\SV6.i\240622.b\06.D
Inj Date : 22-JUN-2024 13:10
InstruID : SV6.i
LabSampID : MBLK-213459

Naphthalene-d8 (1146-65-2)

Reason Code:

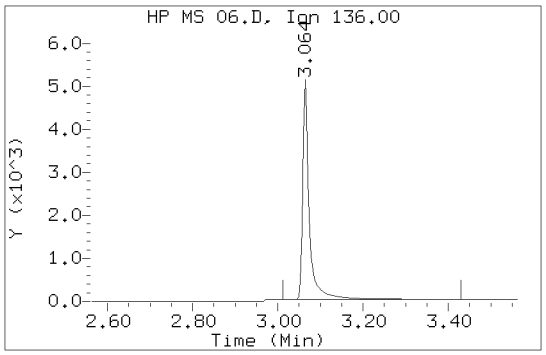
BEFORE

MASS
136
AREA
0
HEIGHT
0
22-Jun-2024
13:24
ALSHS
Server



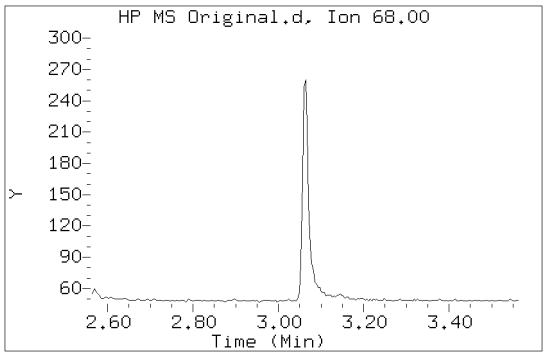
AFTER

MASS
136
AREA
5565
HEIGHT
5110
24-Jun-2024
15:39
ALSHS
Server



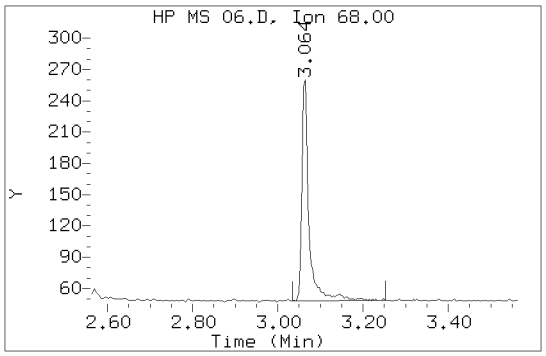
BEFORE

MASS
68
AREA
0
HEIGHT
0
22-Jun-2024
13:24
ALSHS
Server



AFTER

MASS
68
AREA
250
HEIGHT
211
24-Jun-2024
15:39
ALSHS
Server

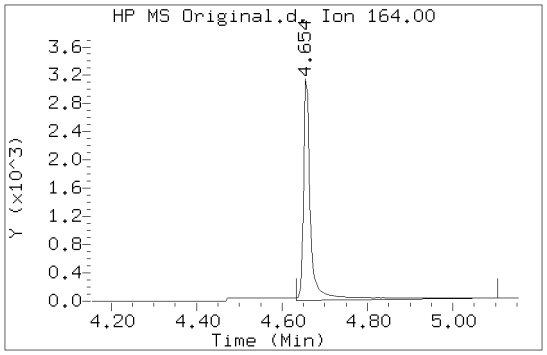


Acenaphthene-d10 (15067-26-2)

Reason Code:

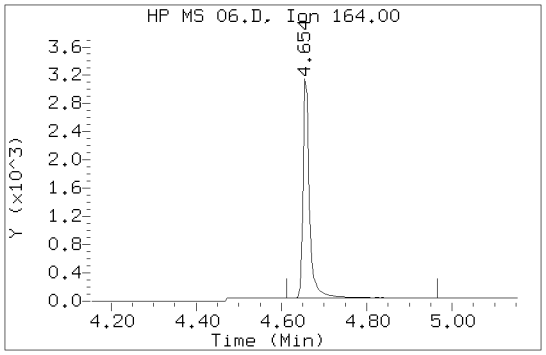
BEFORE

MASS
164
AREA
3841
HEIGHT
3134
22-Jun-2024
13:24
ALSHS
Server



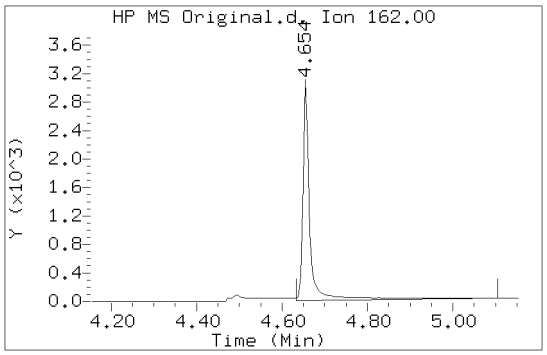
AFTER

MASS
164
AREA
3352
HEIGHT
3102
24-Jun-2024
15:39
ALSHS
Server



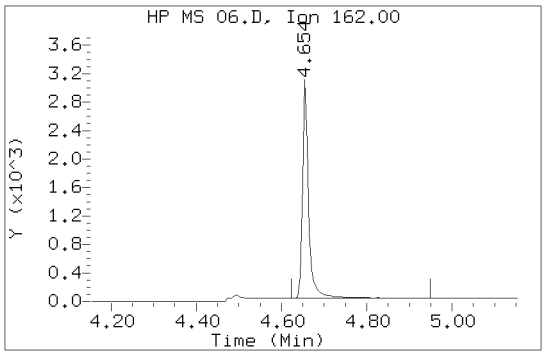
BEFORE

MASS
162
AREA
3533
HEIGHT
3101
22-Jun-2024
13:24
ALSHS
Server



AFTER

MASS
162
AREA
3041
HEIGHT
3069
24-Jun-2024
15:39
ALSHS
Server



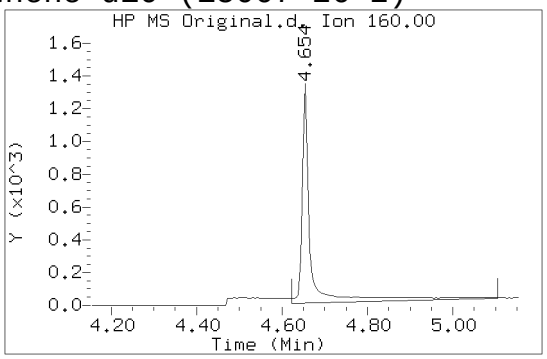
Data File : \\NAHSTWS005\Target\chem\SV6.i\240622.b\06.D
Inj Date : 22-JUN-2024 13:10
InstruID : SV6.i
LabSampID : MBLK-213459

Acenaphthene-d10 (15067-26-2)

Reason Code:

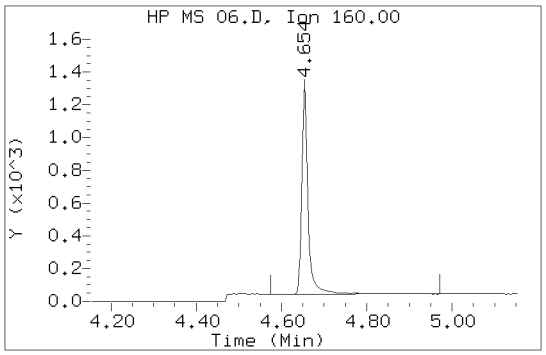
BEFORE

MASS
160
AREA
1813
HEIGHT
1339
22-Jun-2024
13:24
ALSHS
Server



AFTER

MASS
160
AREA
1310
HEIGHT
1308
24-Jun-2024
15:39
ALSHS
Server

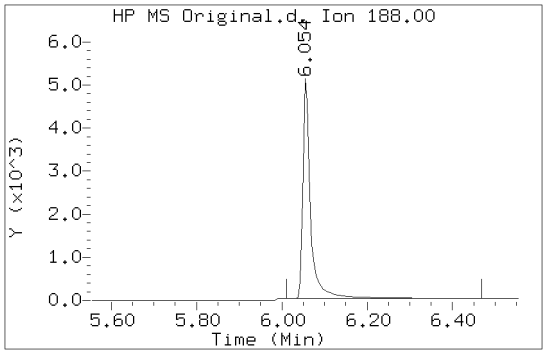


Phenanthrene-d10 (1517-22-2)

Reason Code:

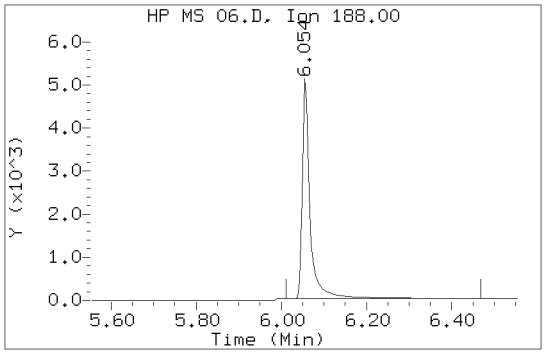
BEFORE

MASS
188
AREA
6467
HEIGHT
5103
22-Jun-2024
13:24
ALSHS
Server



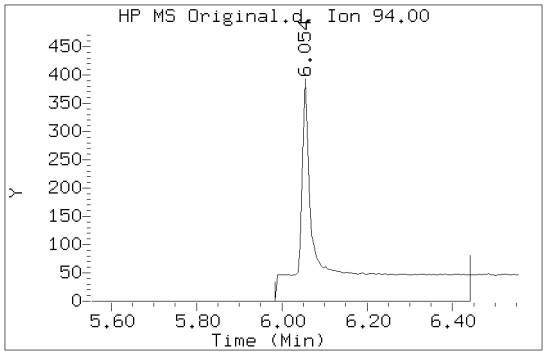
AFTER

MASS
188
AREA
6467
HEIGHT
5103
24-Jun-2024
15:39
ALSHS
Server



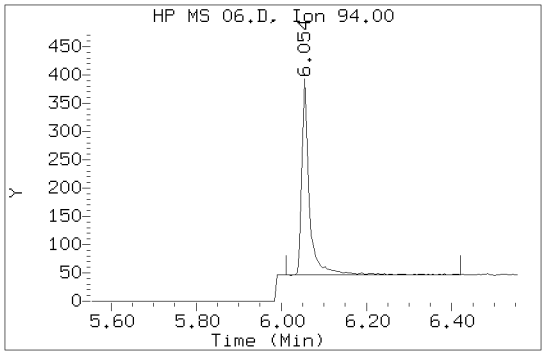
BEFORE

MASS
94
AREA
1714
HEIGHT
393
22-Jun-2024
13:24
ALSHS
Server



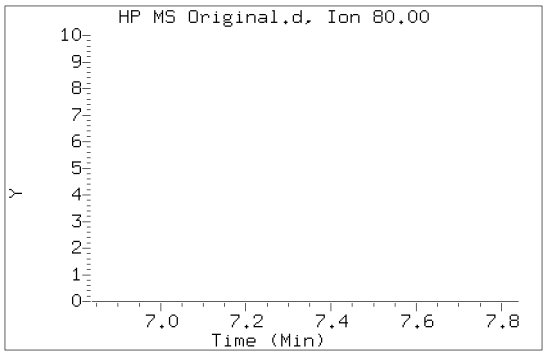
AFTER

MASS
94
AREA
425
HEIGHT
346
24-Jun-2024
15:39
ALSHS
Server



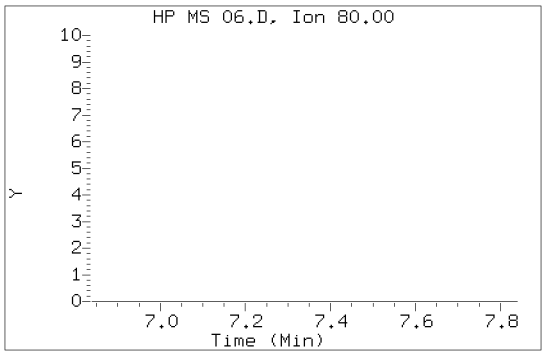
BEFORE

MASS
80
AREA
0
HEIGHT
0
22-Jun-2024
13:24
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
24-Jun-2024
15:39
ALSHS
Server



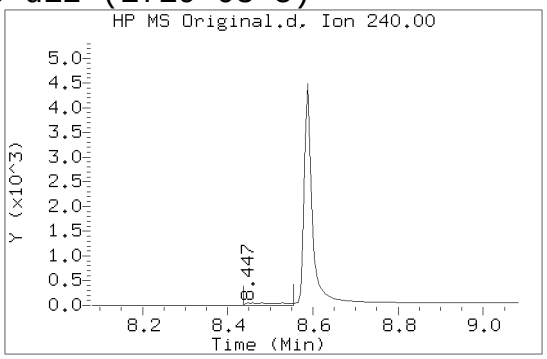
Data File : \\NAHSTWS005\Target\chem\SV6.i\240622.b\06.D
Inj Date : 22-JUN-2024 13:10
InstruID : SV6.i
LabSampID : MBLK-213459

Chrysene-d12 (1719-03-5)

Reason Code:

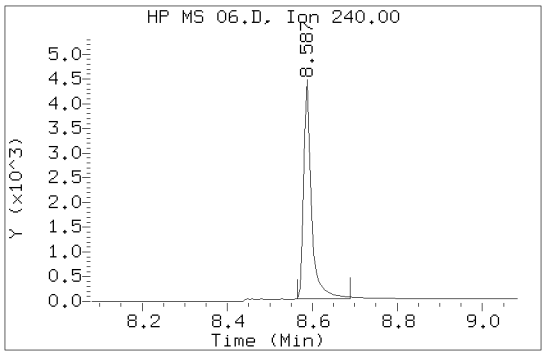
BEFORE

MASS
240
AREA
320
HEIGHT
46
22-Jun-2024
13:24
ALSHS
Server



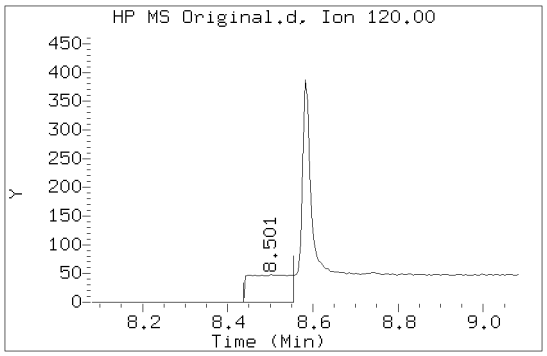
AFTER

MASS
240
AREA
5538
HEIGHT
4429
24-Jun-2024
15:39
ALSHS
Server



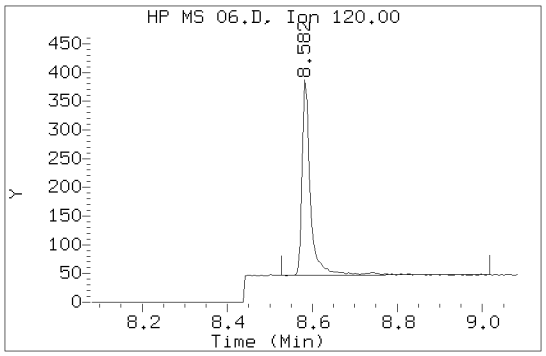
BEFORE

MASS
120
AREA
331
HEIGHT
48
22-Jun-2024
13:24
ALSHS
Server



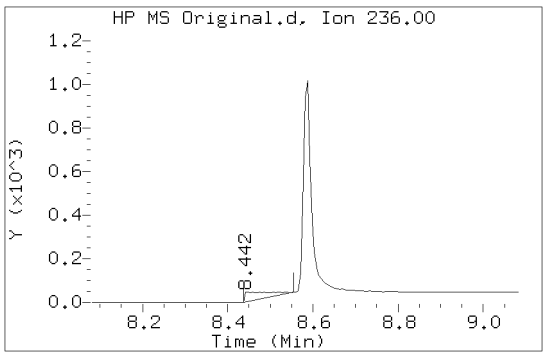
AFTER

MASS
120
AREA
455
HEIGHT
339
24-Jun-2024
15:39
ALSHS
Server



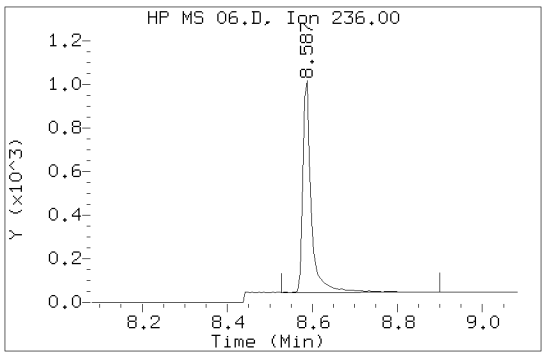
BEFORE

MASS
236
AREA
152
HEIGHT
43
22-Jun-2024
13:24
ALSHS
Server



AFTER

MASS
236
AREA
1319
HEIGHT
970
24-Jun-2024
15:39
ALSHS
Server

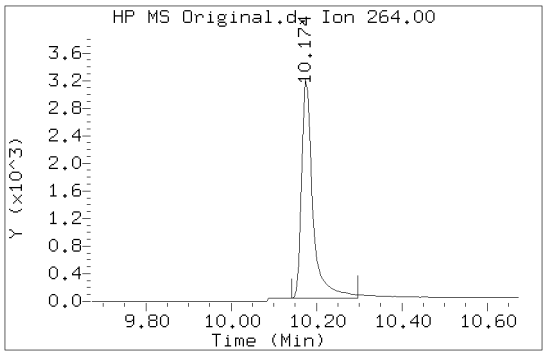


Perylene-d12 (1520-96-3)

Reason Code:

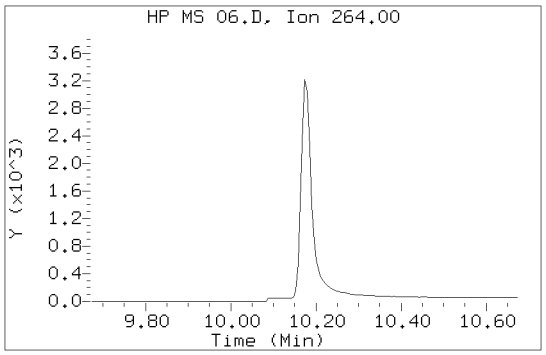
BEFORE

MASS
264
AREA
5776
HEIGHT
3164
22-Jun-2024
13:24
ALSHS
Server



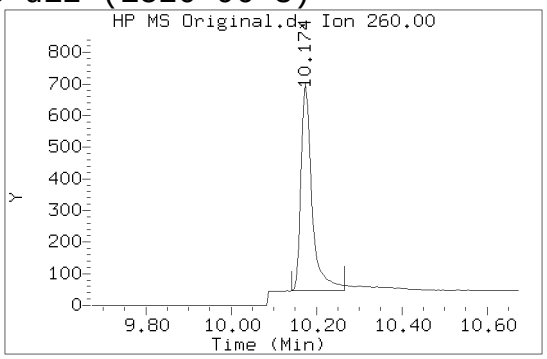
AFTER

MASS
264
AREA
6082
HEIGHT
3164
24-Jun-2024
15:39
ALSHS
Server

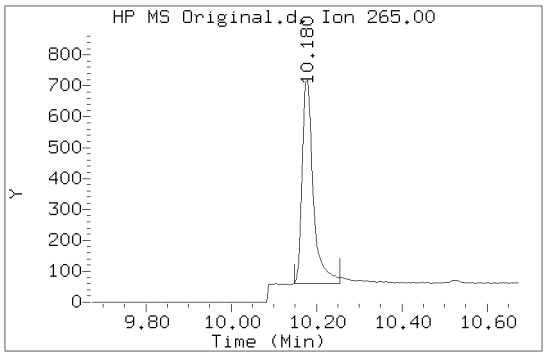


Data File : \\NAHSTWS005\Target\chem\SV6.i\240622.b\06.D
Inj Date : 22-JUN-2024 13:10
InstruID : SV6.i
LabSampID : MBLK-213459

Perylene-d12 (1520-96-3)

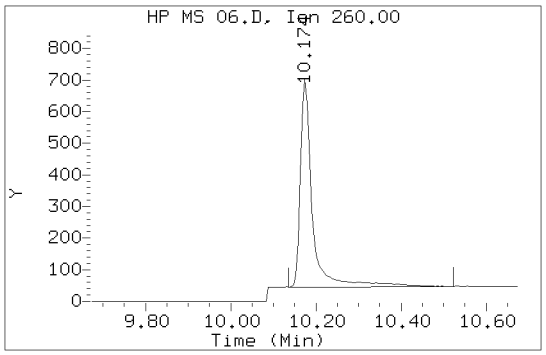


BEFORE
MASS
260
AREA
1165
HEIGHT
654
22-Jun-2024
13:24
ALSHS
Server

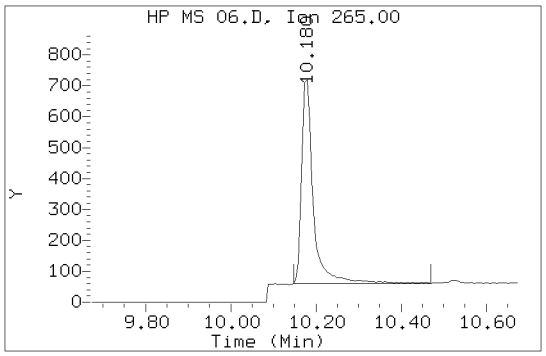


BEFORE
MASS
265
AREA
1188
HEIGHT
659
22-Jun-2024
13:24
ALSHS
Server

Reason Code:

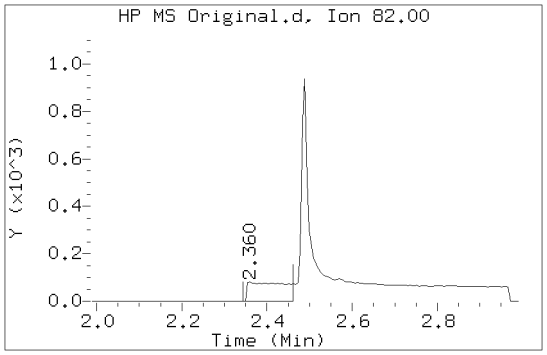


AFTER
MASS
260
AREA
1285
HEIGHT
655
24-Jun-2024
15:39
ALSHS
Server

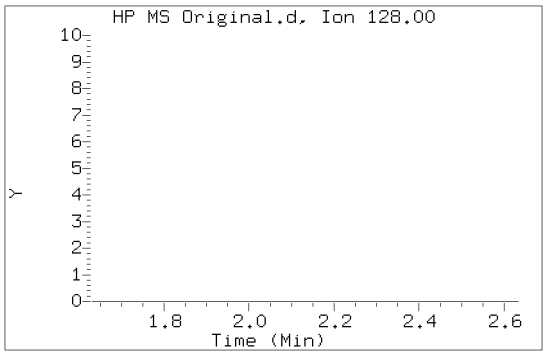


AFTER
MASS
265
AREA
1259
HEIGHT
658
24-Jun-2024
15:39
ALSHS
Server

Nitrobenzene-d5 (4165-60-0)

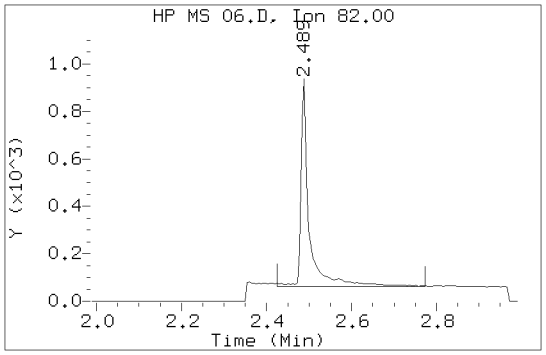


BEFORE
MASS
82
AREA
504
HEIGHT
81
22-Jun-2024
13:24
ALSHS
Server

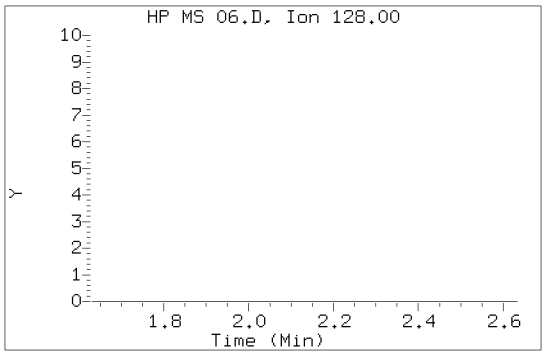


BEFORE
MASS
128
AREA
0
HEIGHT
0
22-Jun-2024
13:24
ALSHS
Server

Reason Code:



AFTER
MASS
82
AREA
1212
HEIGHT
876
24-Jun-2024
15:39
ALSHS
Server



AFTER
MASS
128
AREA
0
HEIGHT
0
24-Jun-2024
15:39
ALSHS
Server

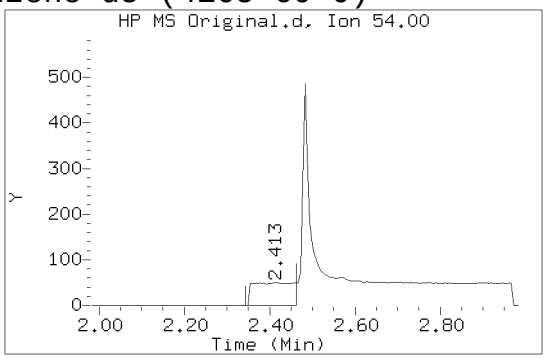
Data File : \\NAHSTWS005\Target\chem\SV6.i\240622.b\06.D
Inj Date : 22-JUN-2024 13:10
InstruID : SV6.i
LabSampID : MBLK-213459

Nitrobenzene-d5 (4165-60-0)

Reason Code:

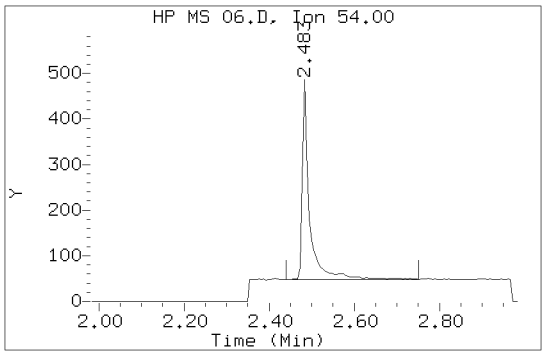
BEFORE

MASS
54
AREA
326
HEIGHT
50
22-Jun-2024
13:24
ALSHS
Server



AFTER

MASS
54
AREA
514
HEIGHT
438
24-Jun-2024
15:39
ALSHS
Server

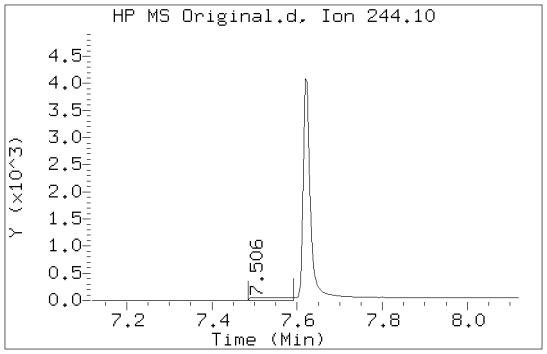


4-Terphenyl-d14 (1718-51-0)

Reason Code:

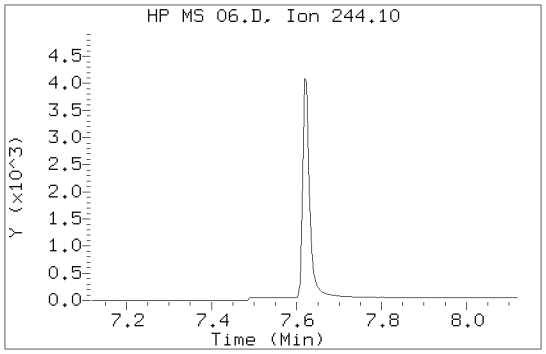
BEFORE

MASS
244.1
AREA
285
HEIGHT
45
22-Jun-2024
13:24
ALSHS
Server



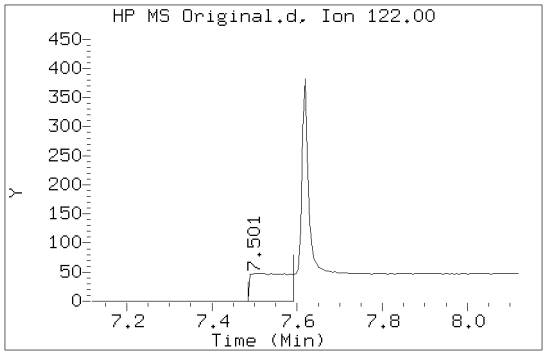
AFTER

MASS
244.1
AREA
7396
HEIGHT
4086
24-Jun-2024
15:39
ALSHS
Server



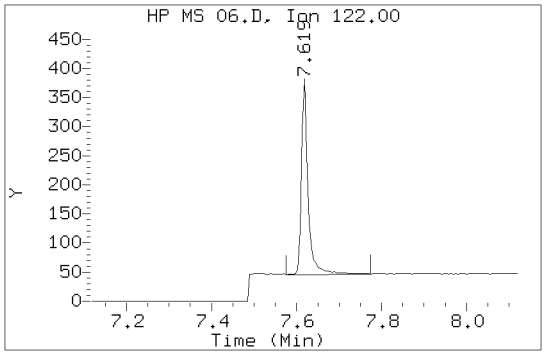
BEFORE

MASS
122
AREA
298
HEIGHT
47
22-Jun-2024
13:24
ALSHS
Server



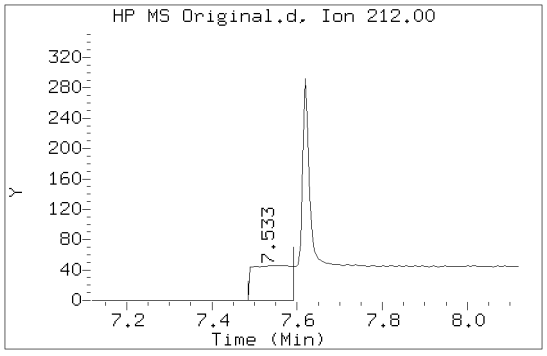
AFTER

MASS
122
AREA
373
HEIGHT
336
24-Jun-2024
15:39
ALSHS
Server



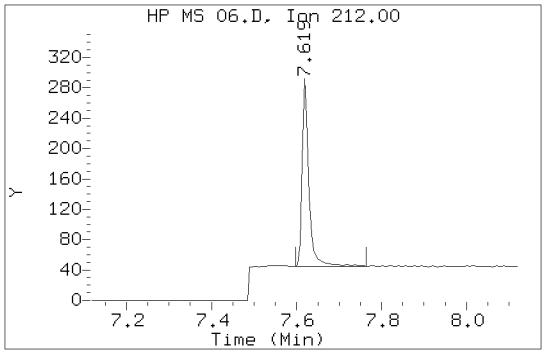
BEFORE

MASS
212
AREA
292
HEIGHT
46
22-Jun-2024
13:24
ALSHS
Server



AFTER

MASS
212
AREA
270
HEIGHT
247
24-Jun-2024
15:39
ALSHS
Server



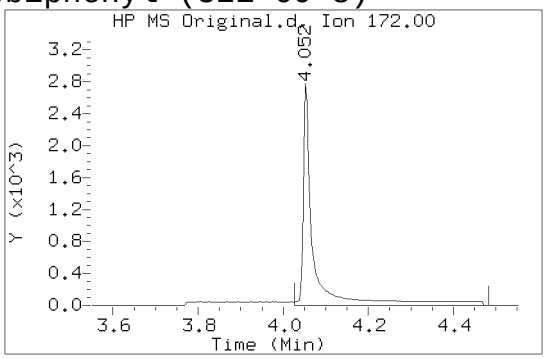
Data File : \\NAHSTWS005\Target\chem\SV6.i\240622.b\06.D
Inj Date : 22-JUN-2024 13:10
InstruID : SV6.i
LabSampID : MBLK-213459

2-Fluorobiphenyl (321-60-8)

Reason Code:

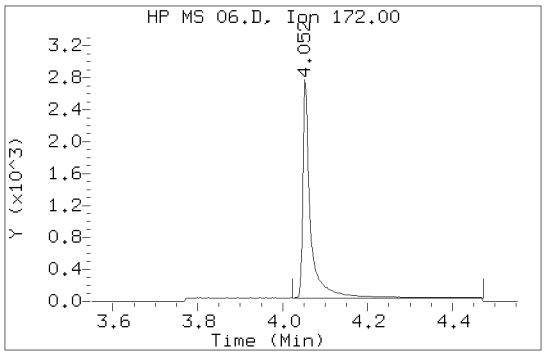
BEFORE

MASS
172
AREA
4703
HEIGHT
2777
22-Jun-2024
13:24
ALSHS
Server



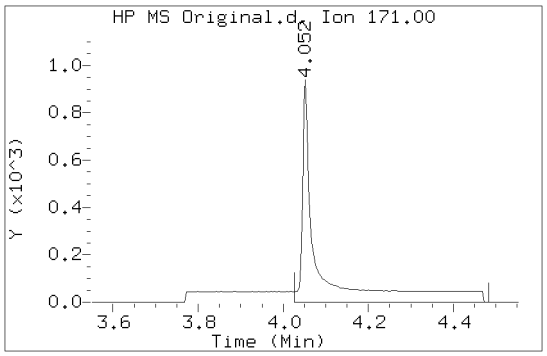
AFTER

MASS
172
AREA
3618
HEIGHT
2738
24-Jun-2024
15:39
ALSHS
Server



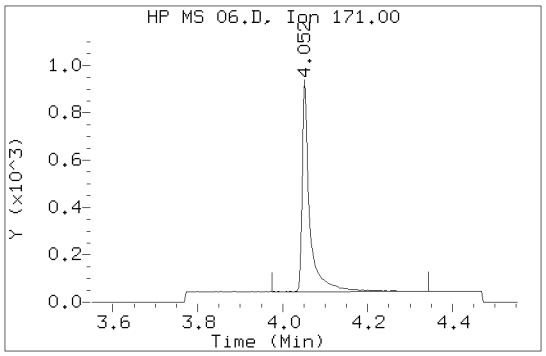
BEFORE

MASS
171
AREA
2346
HEIGHT
939
22-Jun-2024
13:24
ALSHS
Server



AFTER

MASS
171
AREA
1120
HEIGHT
894
24-Jun-2024
15:39
ALSHS
Server



Data File: \\NAHSTWS005\Target\chem\SV6.i\240622.b\07.D Page 1
Report Date: 24-Jun-2024 15:38

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240622.b\07.D
Lab Smp Id: LCS-213459
Inj Date : 22-JUN-2024 13:28
Operator : LG Inst ID: SV6.i
Smp Info : LCS-213459
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240622.b\DXSIM.m
Meth Date : 22-Jun-2024 12:47 SV6.i Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 7 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7015

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	2.086	2.080	(1.000)	1986	0.10000	(a)
* 45 Naphthalene-d8	136	3.063	3.063	(1.000)	5705	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.488	2.488	(0.812)	1097	0.06405	0.06405(M)
* 86 Acenaphthene-d10	164	4.654	4.654	(1.000)	3741	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.052	4.052	(0.871)	3738	0.06536	0.06536(M)
* 126 Phenanthrene-d10	188	6.054	6.054	(1.000)	6636	0.10000	
* 182 Chrysene-d12	240	8.587	8.581	(1.000)	6019	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.618	7.618	(0.887)	4438	0.03619	0.03619(M)
* 198 Perylene-d12	264	10.174	10.174	(1.000)	6432	0.10000	
1 1,4-Dioxane	58	0.853	0.834	(0.409)	174	0.04090	0.04090(M)

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\SV6.i\240622.b\07.D

Date : 22-JUN-2024 13:28

Client ID:

Instrument: SV6.i

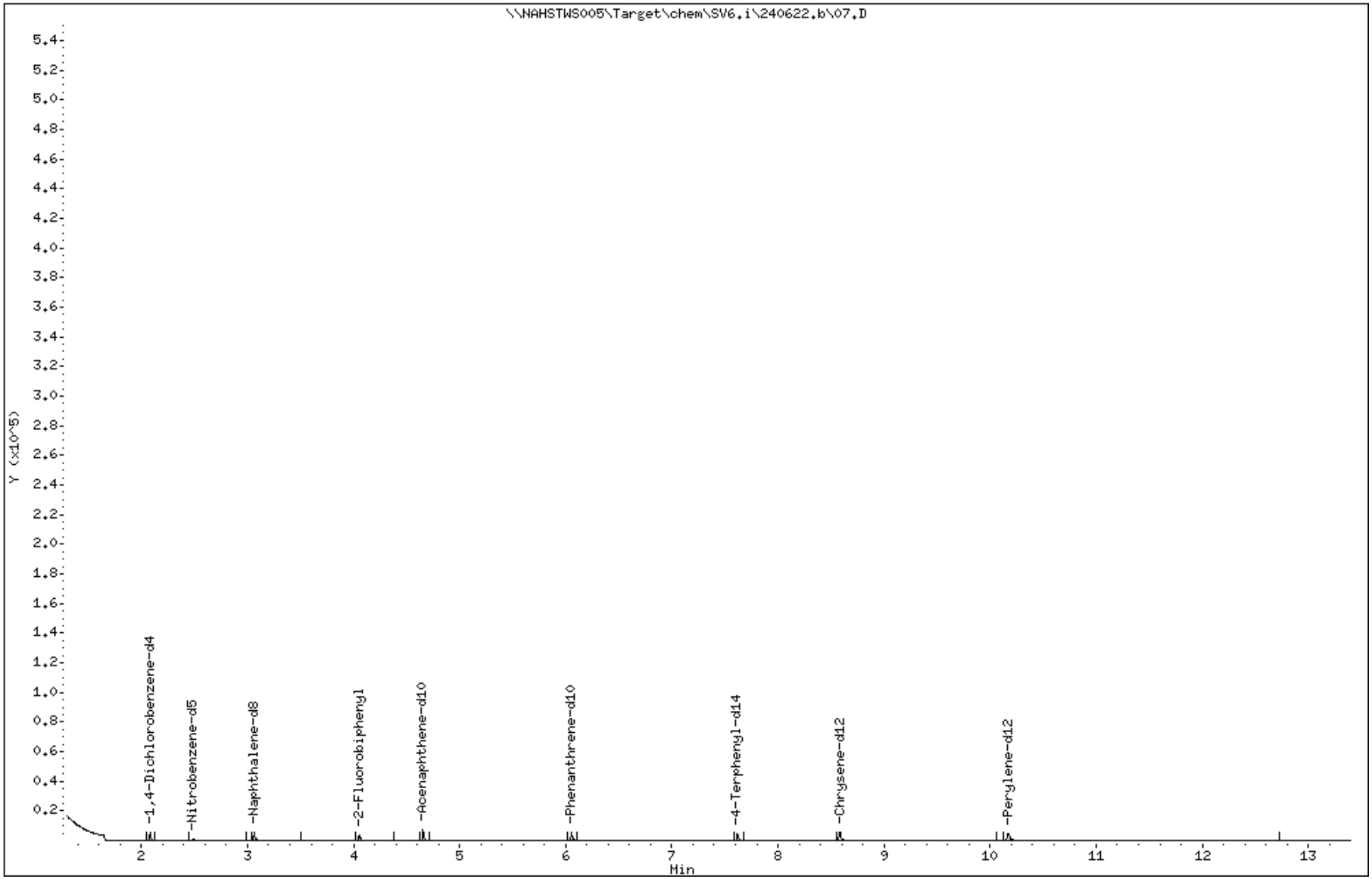
Sample Info: LCS-213459

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

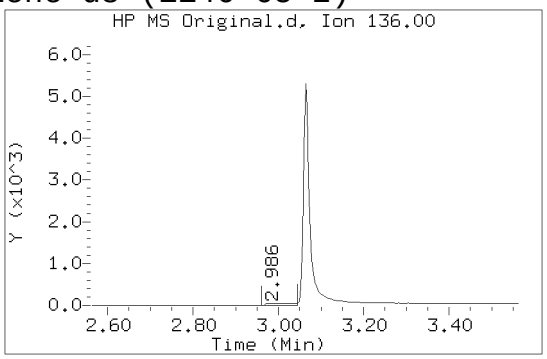


Data File : \\NAHSTWS005\Target\chem\SV6.i\240622.b\07.D
Inj Date : 22-JUN-2024 13:28
InstruID : SV6.i
LabSampID : LCS-213459

Naphthalene-d8 (1146-65-2)

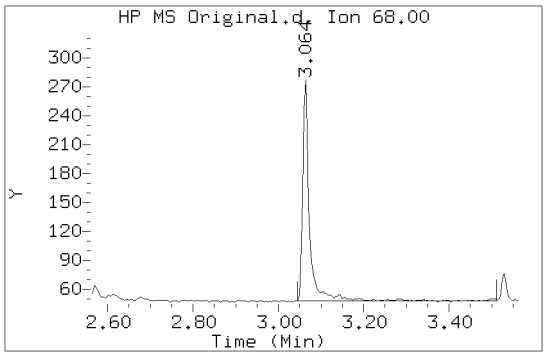
BEFORE

MASS
136
AREA
221
HEIGHT
49
22-Jun-2024
13:42
ALSHS
Server



BEFORE

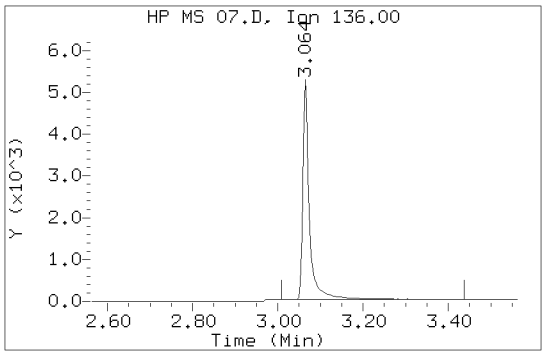
MASS
68
AREA
267
HEIGHT
229
22-Jun-2024
13:42
ALSHS
Server



Reason Code:

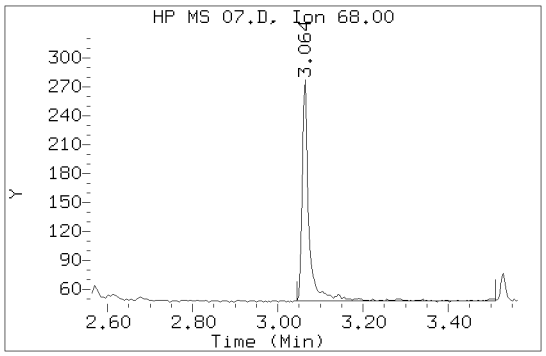
AFTER

MASS
136
AREA
5705
HEIGHT
5256
24-Jun-2024
15:38
ALSHS
Server



AFTER

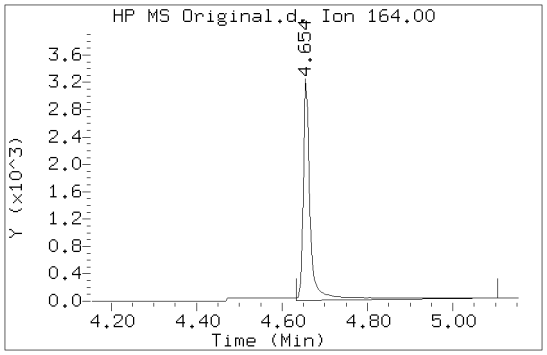
MASS
68
AREA
267
HEIGHT
229
24-Jun-2024
15:38
ALSHS
Server



Acenaphthene-d10 (15067-26-2)

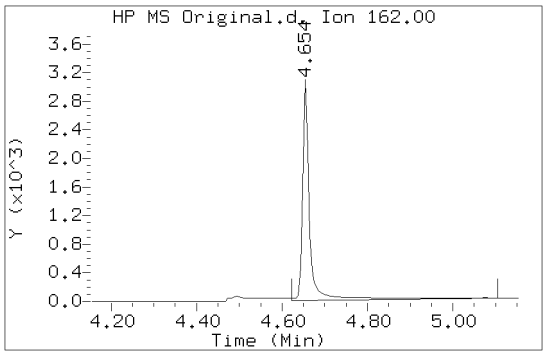
BEFORE

MASS
164
AREA
3905
HEIGHT
3236
22-Jun-2024
13:42
ALSHS
Server



BEFORE

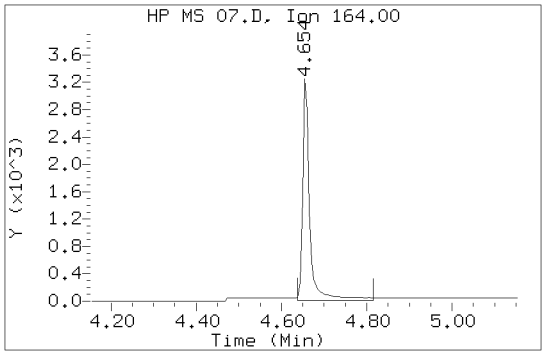
MASS
162
AREA
3644
HEIGHT
3087
22-Jun-2024
13:42
ALSHS
Server



Reason Code:

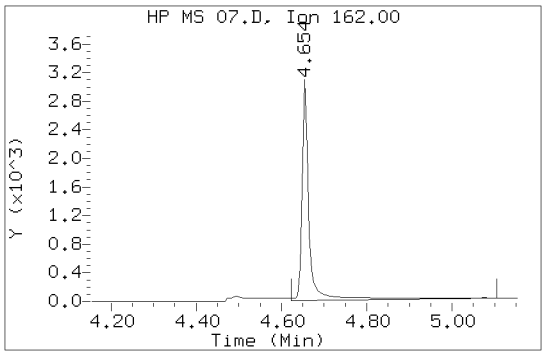
AFTER

MASS
164
AREA
3741
HEIGHT
3236
24-Jun-2024
15:38
ALSHS
Server



AFTER

MASS
162
AREA
3644
HEIGHT
3087
24-Jun-2024
15:38
ALSHS
Server



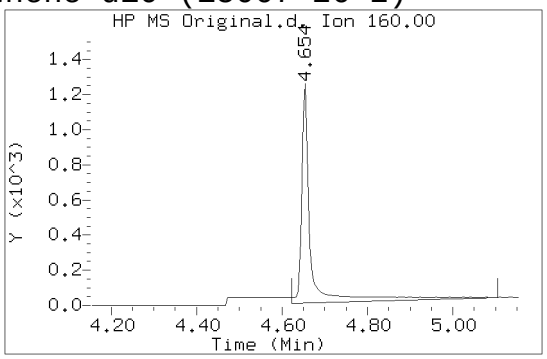
Data File : \\NAHSTWS005\Target\chem\SV6.i\240622.b\07.D
Inj Date : 22-JUN-2024 13:28
InstruID : SV6.i
LabSampID : LCS-213459

Acenaphthene-d10 (15067-26-2)

Reason Code:

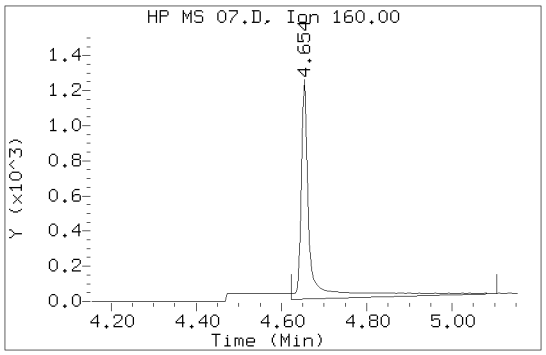
BEFORE

MASS
160
AREA
1833
HEIGHT
1249
22-Jun-2024
13:42
ALSHS
Server



AFTER

MASS
160
AREA
1833
HEIGHT
1249
24-Jun-2024
15:38
ALSHS
Server

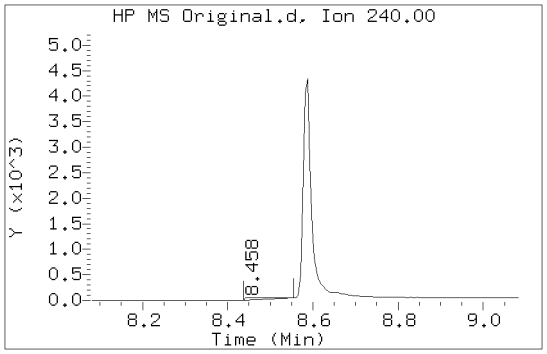


Chrysene-d12 (1719-03-5)

Reason Code:

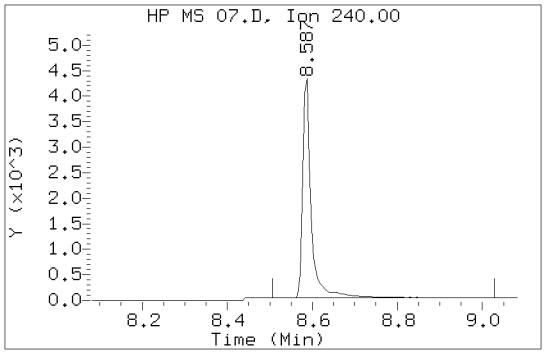
BEFORE

MASS
240
AREA
151
HEIGHT
37
22-Jun-2024
13:42
ALSHS
Server



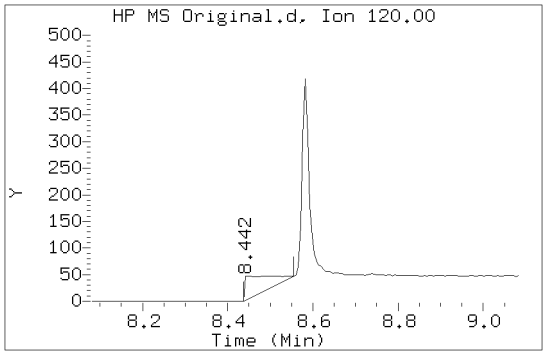
AFTER

MASS
240
AREA
6019
HEIGHT
4296
24-Jun-2024
15:38
ALSHS
Server



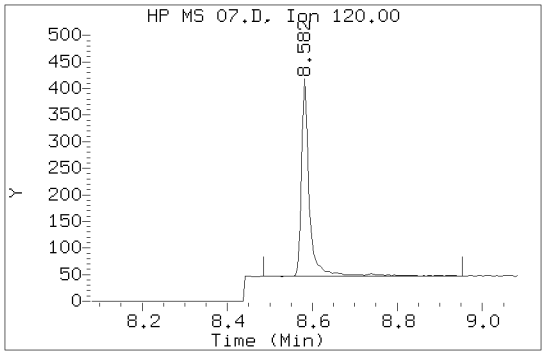
BEFORE

MASS
120
AREA
157
HEIGHT
44
22-Jun-2024
13:42
ALSHS
Server



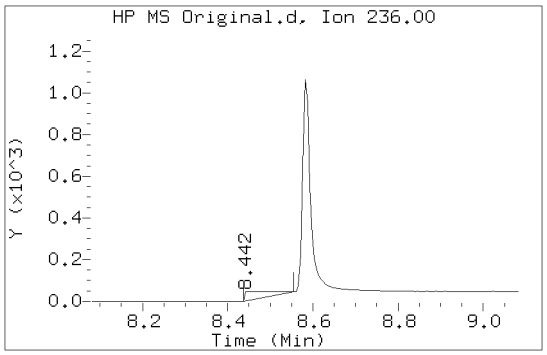
AFTER

MASS
120
AREA
476
HEIGHT
371
24-Jun-2024
15:38
ALSHS
Server



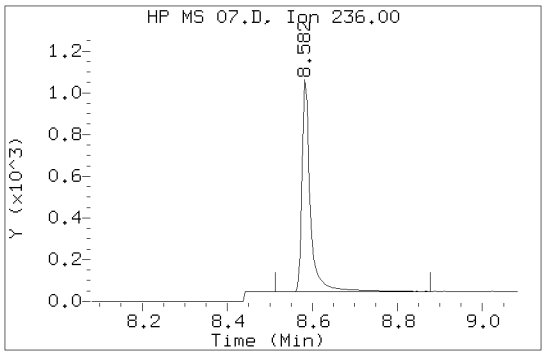
BEFORE

MASS
236
AREA
153
HEIGHT
43
22-Jun-2024
13:42
ALSHS
Server



AFTER

MASS
236
AREA
1378
HEIGHT
1017
24-Jun-2024
15:38
ALSHS
Server



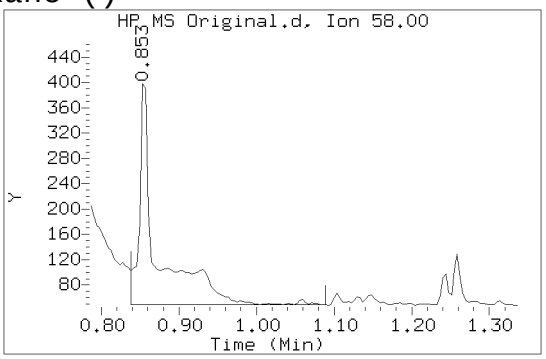
Data File : \\NAHSTWS005\Target\chem\SV6.i\240622.b\07.D
Inj Date : 22-JUN-2024 13:28
InstruID : SV6.i
LabSampID : LCS-213459

1,4-Dioxane ()

Reason Code:

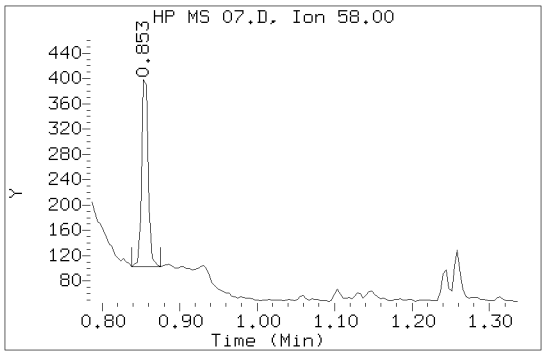
BEFORE

MASS
58
AREA
548
HEIGHT
349
22-Jun-2024
13:42
ALSHS
Server



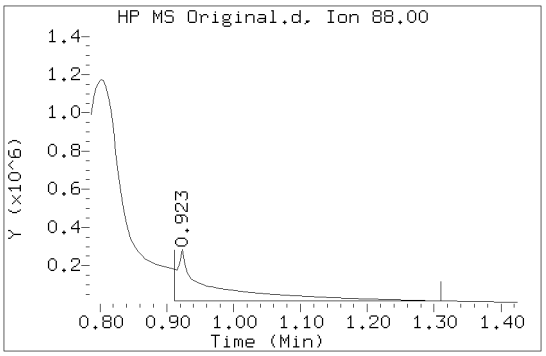
AFTER

MASS
58
AREA
174
HEIGHT
295
24-Jun-2024
15:38
ALSHS
Server



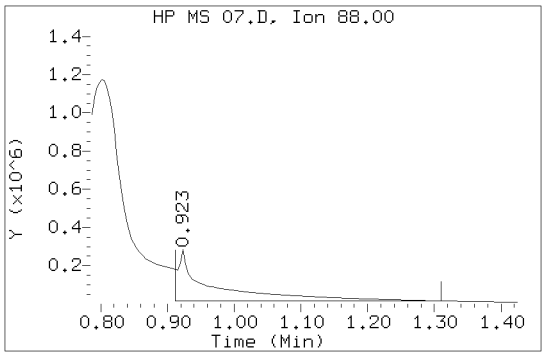
BEFORE

MASS
88
AREA
932701
HEIGHT
269319
22-Jun-2024
13:42
ALSHS
Server



AFTER

MASS
88
AREA
932701
HEIGHT
269319
24-Jun-2024
15:38
ALSHS
Server

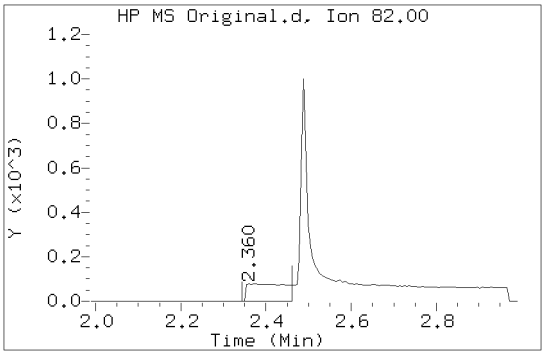


Nitrobenzene-d5 (4165-60-0)

Reason Code:

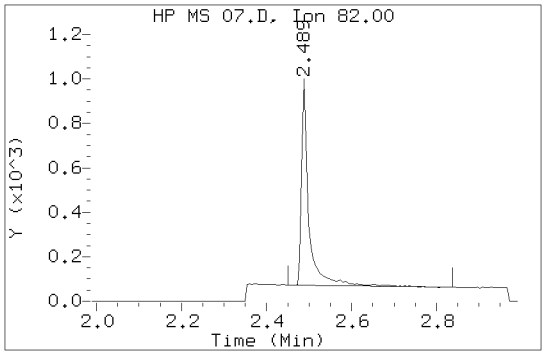
BEFORE

MASS
82
AREA
504
HEIGHT
78
22-Jun-2024
13:42
ALSHS
Server



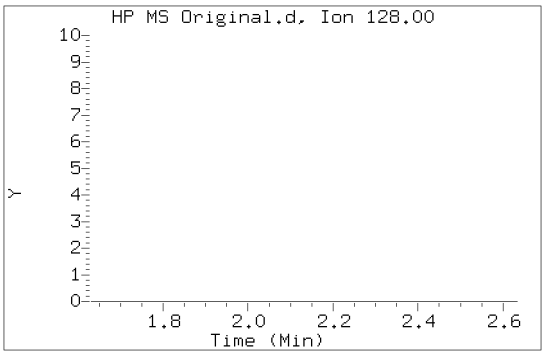
AFTER

MASS
82
AREA
1097
HEIGHT
927
24-Jun-2024
15:38
ALSHS
Server



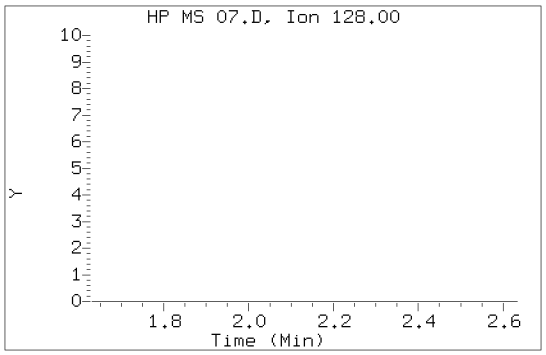
BEFORE

MASS
128
AREA
0
HEIGHT
0
22-Jun-2024
13:42
ALSHS
Server



AFTER

MASS
128
AREA
0
HEIGHT
0
24-Jun-2024
15:38
ALSHS
Server



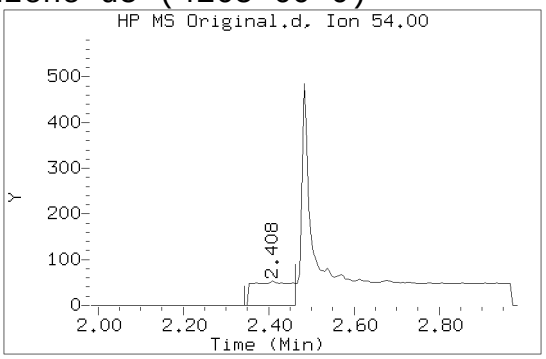
Data File : \\NAHSTWS005\Target\chem\SV6.i\240622.b\07.D
Inj Date : 22-JUN-2024 13:28
InstruID : SV6.i
LabSampID : LCS-213459

Nitrobenzene-d5 (4165-60-0)

Reason Code:

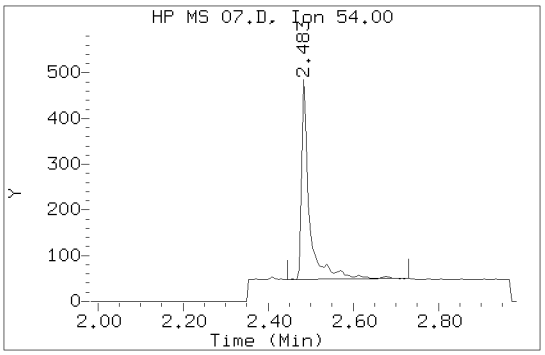
BEFORE

MASS
54
AREA
327
HEIGHT
53
22-Jun-2024
13:42
ALSHS
Server



AFTER

MASS
54
AREA
567
HEIGHT
437
24-Jun-2024
15:38
ALSHS
Server

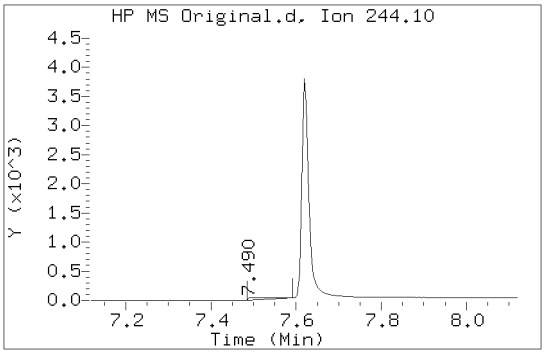


4-Terphenyl-d14 (1718-51-0)

Reason Code:

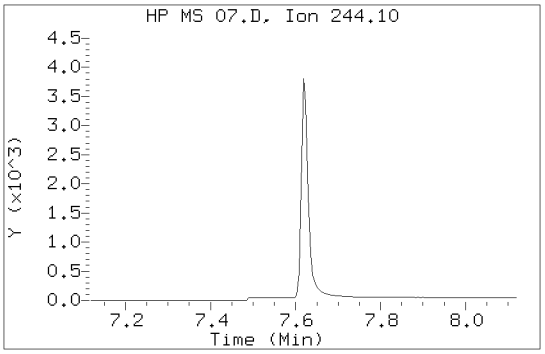
BEFORE

MASS
244.1
AREA
135
HEIGHT
42
22-Jun-2024
13:42
ALSHS
Server



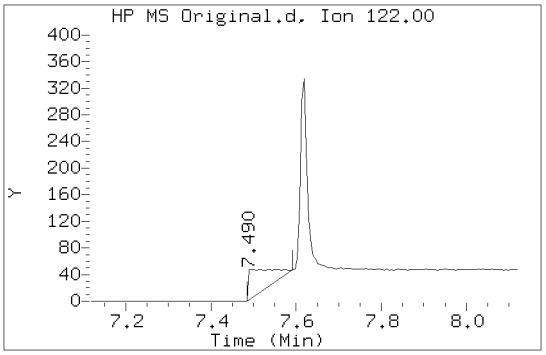
AFTER

MASS
244.1
AREA
4438
HEIGHT
3758
24-Jun-2024
15:38
ALSHS
Server



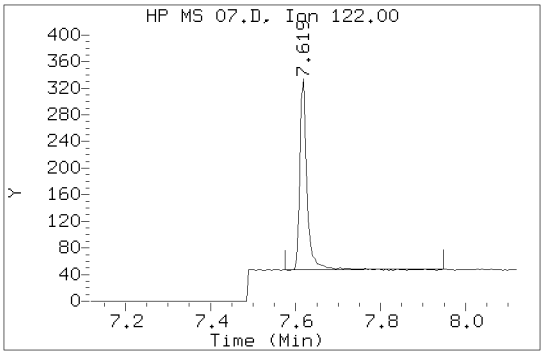
BEFORE

MASS
122
AREA
141
HEIGHT
44
22-Jun-2024
13:42
ALSHS
Server



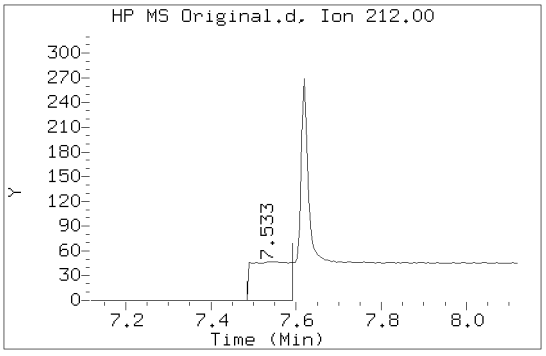
AFTER

MASS
122
AREA
328
HEIGHT
286
24-Jun-2024
15:38
ALSHS
Server



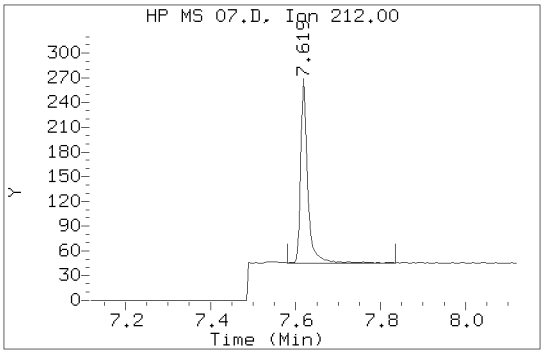
BEFORE

MASS
212
AREA
296
HEIGHT
47
22-Jun-2024
13:42
ALSHS
Server



AFTER

MASS
212
AREA
262
HEIGHT
224
24-Jun-2024
15:38
ALSHS
Server

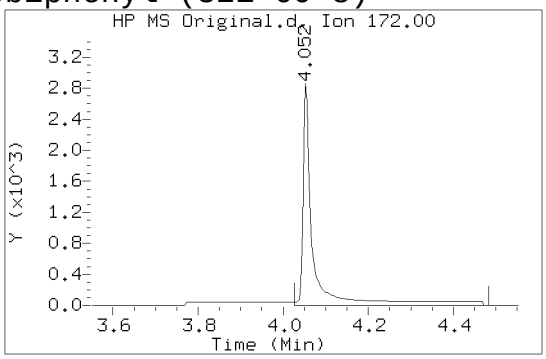


Data File : \\NAHSTWS005\Target\chem\SV6.i\240622.b\07.D
Inj Date : 22-JUN-2024 13:28
InstruID : SV6.i
LabSampID : LCS-213459

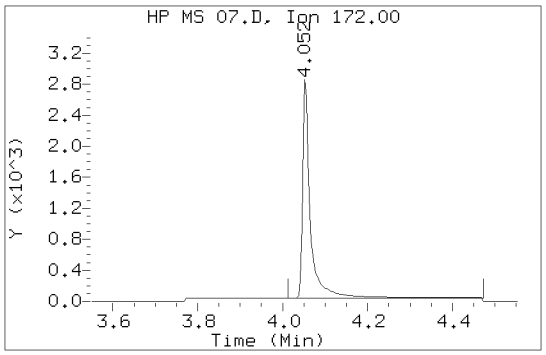
2-Fluorobiphenyl (321-60-8)

Reason Code:

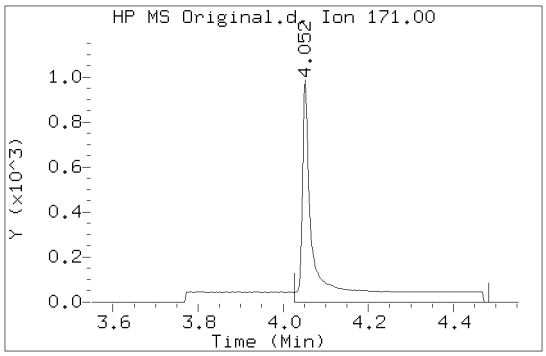
BEFORE
MASS
172
AREA
4820
HEIGHT
2859
22-Jun-2024
13:42
ALSHS
Server



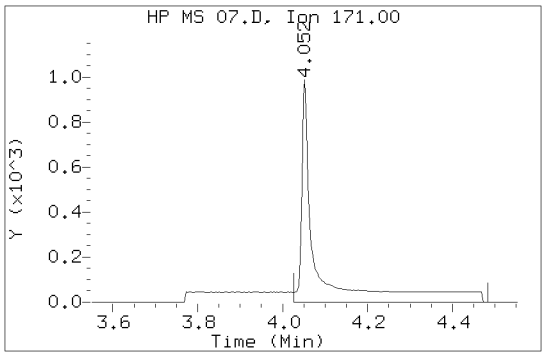
AFTER
MASS
172
AREA
3738
HEIGHT
2819
24-Jun-2024
15:38
ALSHS
Server



BEFORE
MASS
171
AREA
2410
HEIGHT
987
22-Jun-2024
13:42
ALSHS
Server



AFTER
MASS
171
AREA
2410
HEIGHT
987
24-Jun-2024
15:38
ALSHS
Server



Data File: \\NAHSTWS005\Target\chem\SV6.i\240622.b\08.D Page 1
Report Date: 24-Jun-2024 15:40

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240622.b\08.D
Lab Smp Id: LCSD-213459
Inj Date : 22-JUN-2024 13:45
Operator : LG Inst ID: SV6.i
Smp Info : LCSD-213459
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240622.b\DXSIM.m
Meth Date : 22-Jun-2024 12:47 SV6.i Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 8 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7015

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	2.080	2.080	(1.000)	1343	0.10000	(aM)
* 45 Naphthalene-d8	136	3.063	3.063	(1.000)	4116	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.488	2.488	(0.812)	807	0.06531	0.06531(M)
* 86 Acenaphthene-d10	164	4.654	4.654	(1.000)	2414	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.052	4.052	(0.871)	2599	0.07043	0.07043(M)
* 126 Phenanthrene-d10	188	6.054	6.054	(1.000)	4737	0.10000	
* 182 Chrysene-d12	240	8.587	8.581	(1.000)	4310	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.618	7.618	(0.887)	5835	0.06646	0.06646(M)
* 198 Perylene-d12	264	10.174	10.174	(1.000)	4340	0.10000	
1 1,4-Dioxane	58	0.820	0.834	(0.394)	132	0.04589	0.04589(M)

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\SV6.i\240622.b\08.D

Date : 22-JUN-2024 13:45

Client ID:

Instrument: SV6.i

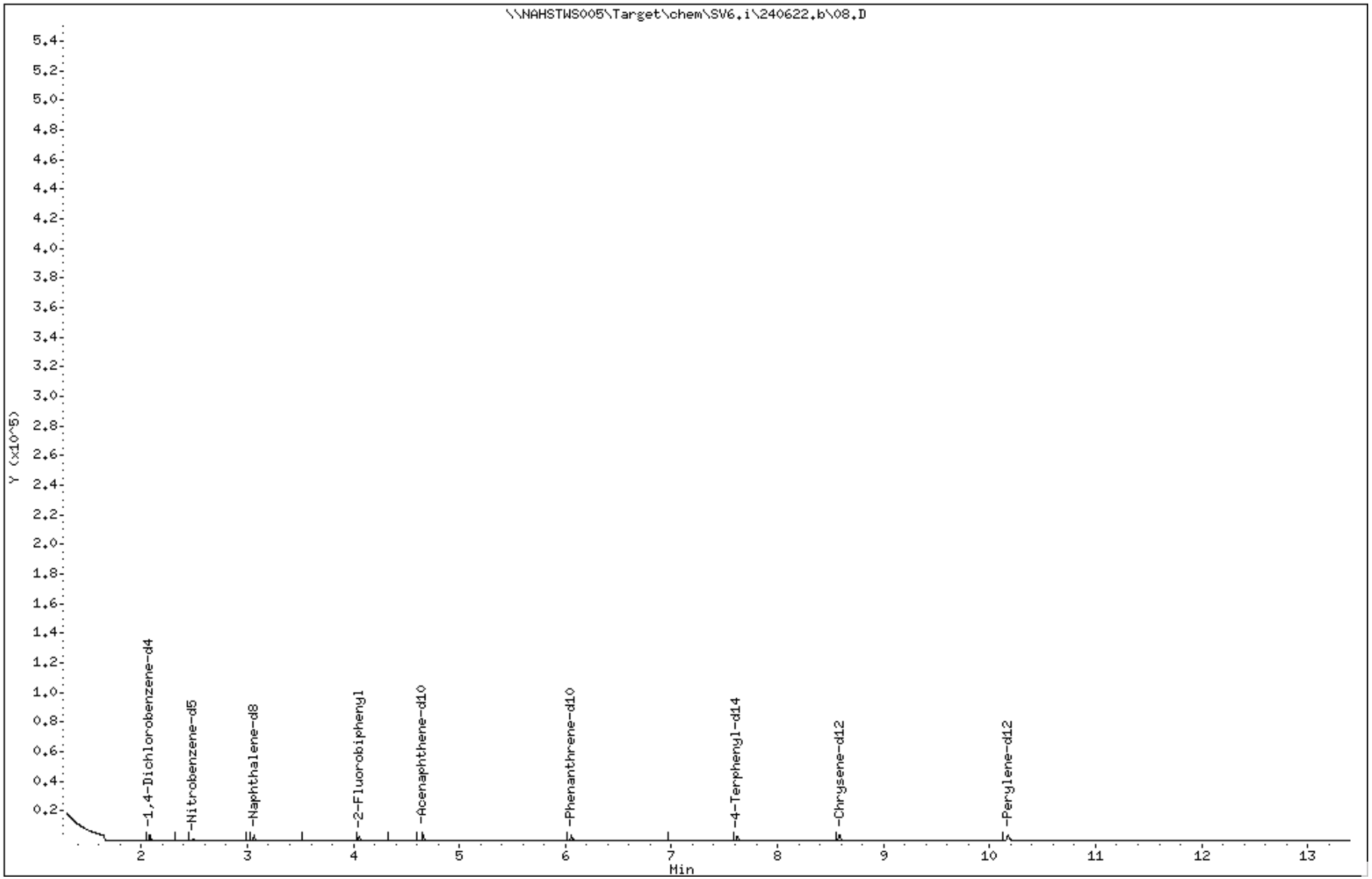
Sample Info: LCSD-213459

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



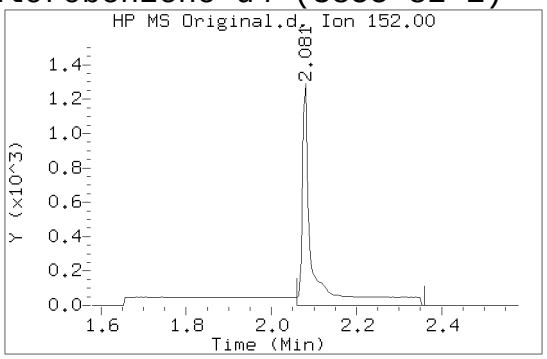
Data File : \\NAHSTWS005\Target\chem\SV6.i\240622.b\08.D
Inj Date : 22-JUN-2024 13:45
InstruID : SV6.i
LabSampID : LCSD-213459

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

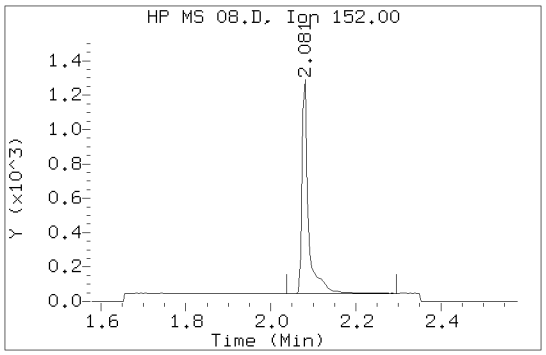
BEFORE

MASS
152
AREA
2153
HEIGHT
1290
22-Jun-2024
14:00
ALSHS
Server



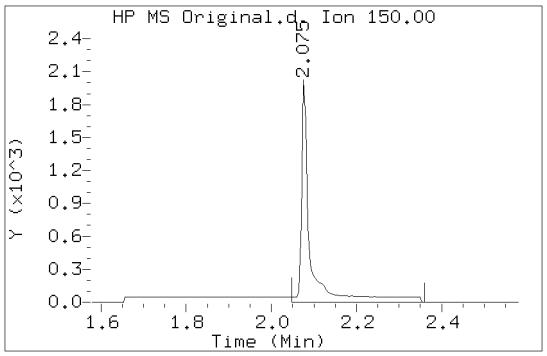
AFTER

MASS
152
AREA
1343
HEIGHT
1244
24-Jun-2024
15:40
ALSHS
Server



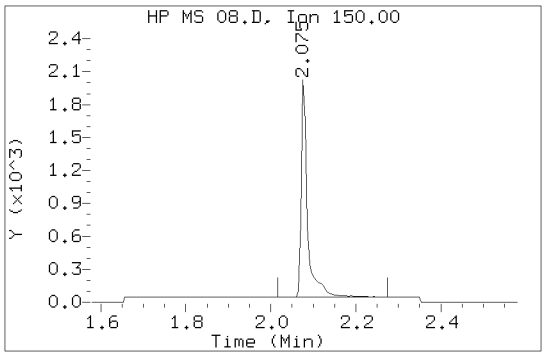
BEFORE

MASS
150
AREA
2945
HEIGHT
2025
22-Jun-2024
14:00
ALSHS
Server



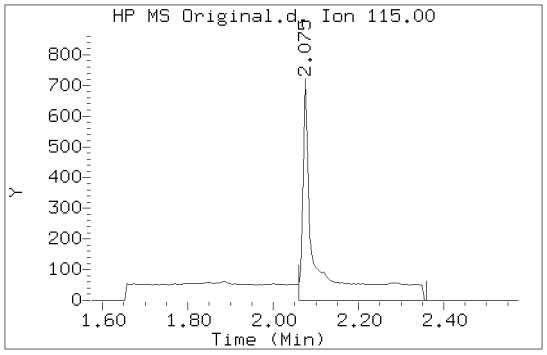
AFTER

MASS
150
AREA
2061
HEIGHT
1977
24-Jun-2024
15:40
ALSHS
Server



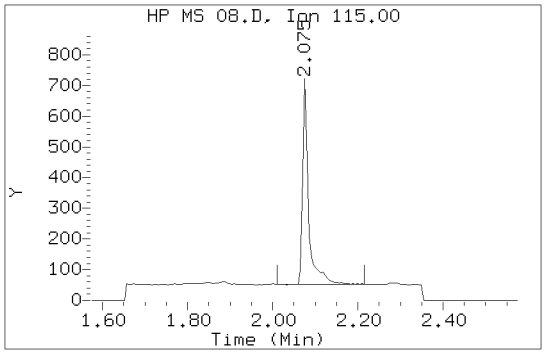
BEFORE

MASS
115
AREA
1593
HEIGHT
722
22-Jun-2024
14:00
ALSHS
Server



AFTER

MASS
115
AREA
653
HEIGHT
669
24-Jun-2024
15:40
ALSHS
Server

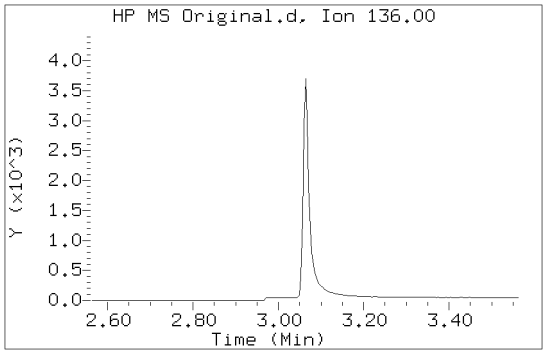


Naphthalene-d8 (1146-65-2)

Reason Code:

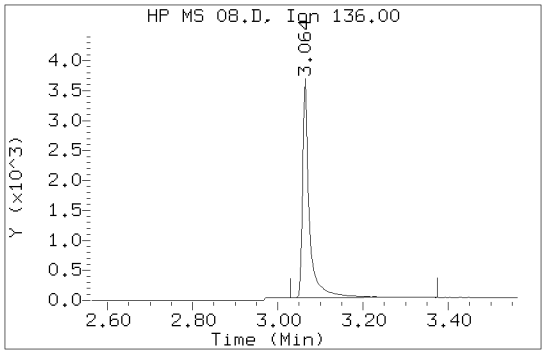
BEFORE

MASS
136
AREA
0
HEIGHT
0
22-Jun-2024
14:00
ALSHS
Server



AFTER

MASS
136
AREA
4116
HEIGHT
3653
24-Jun-2024
15:40
ALSHS
Server



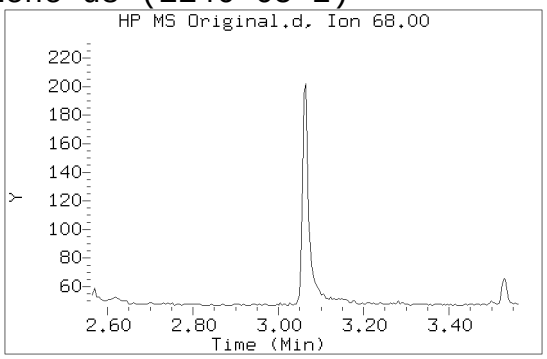
Data File : \\NAHSTWS005\Target\chem\SV6.i\240622.b\08.D
Inj Date : 22-JUN-2024 13:45
InstruID : SV6.i
LabSampID : LCSD-213459

Naphthalene-d8 (1146-65-2)

Reason Code:

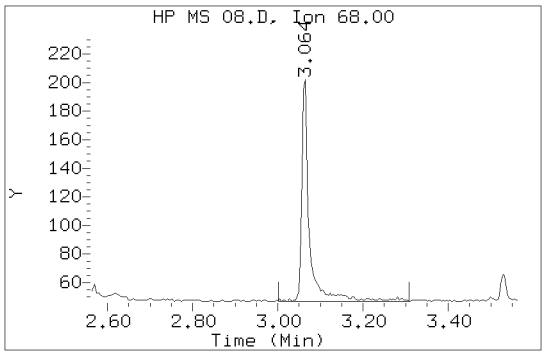
BEFORE

MASS
68
AREA
0
HEIGHT
0
22-Jun-2024
14:00
ALSHS
Server



AFTER

MASS
68
AREA
199
HEIGHT
155
24-Jun-2024
15:40
ALSHS
Server

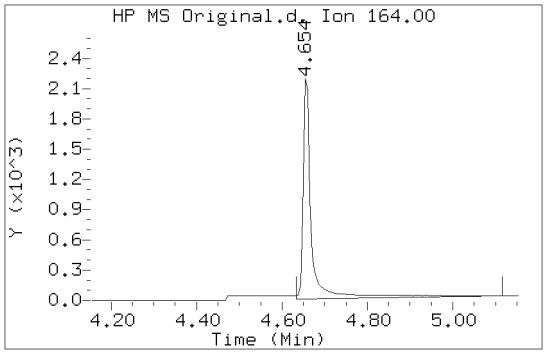


Acenaphthene-d10 (15067-26-2)

Reason Code:

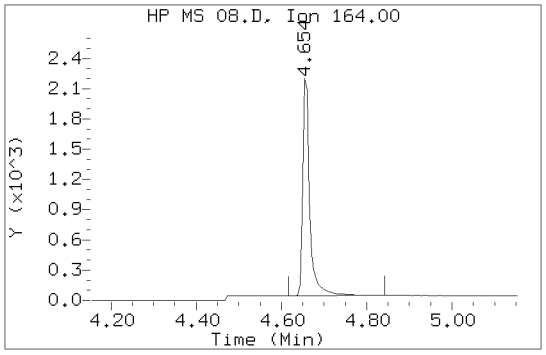
BEFORE

MASS
164
AREA
2973
HEIGHT
2186
22-Jun-2024
14:00
ALSHS
Server



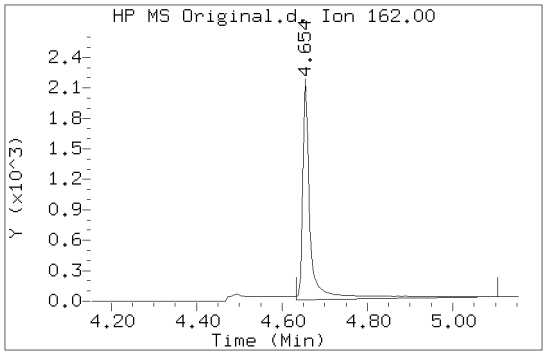
AFTER

MASS
164
AREA
2414
HEIGHT
2153
24-Jun-2024
15:40
ALSHS
Server



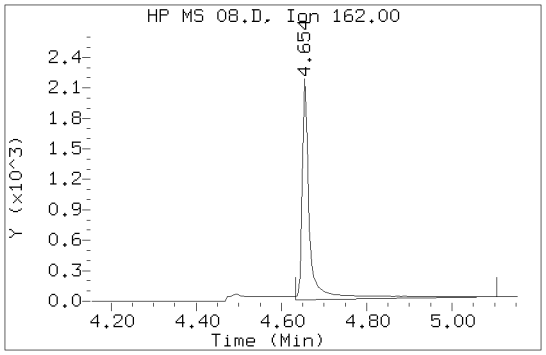
BEFORE

MASS
162
AREA
2718
HEIGHT
2175
22-Jun-2024
14:00
ALSHS
Server



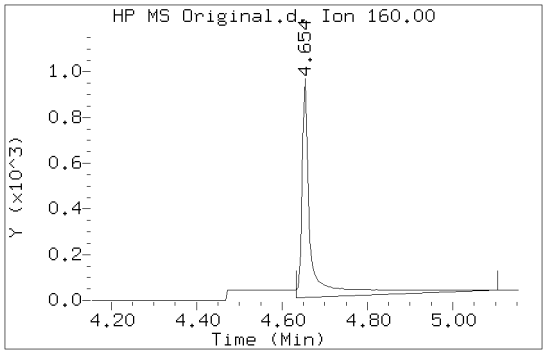
AFTER

MASS
162
AREA
2718
HEIGHT
2175
24-Jun-2024
15:40
ALSHS
Server



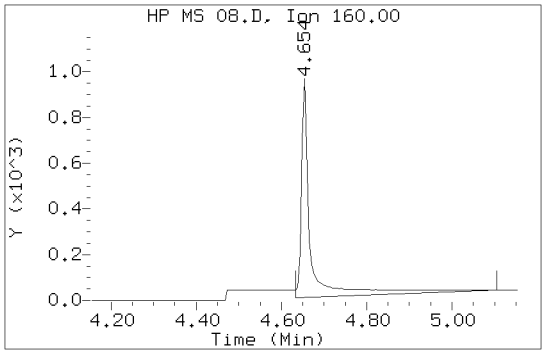
BEFORE

MASS
160
AREA
1451
HEIGHT
957
22-Jun-2024
14:00
ALSHS
Server



AFTER

MASS
160
AREA
1451
HEIGHT
957
24-Jun-2024
15:40
ALSHS
Server



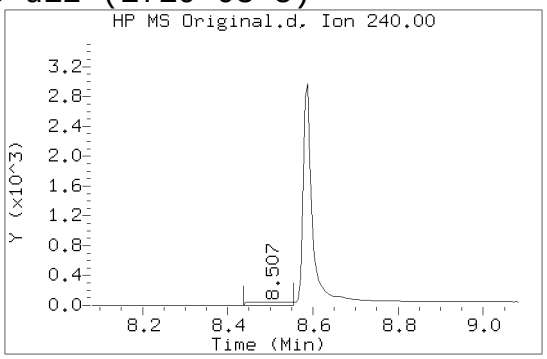
Data File : \\NAHSTWS005\Target\chem\SV6.i\240622.b\08.D
Inj Date : 22-JUN-2024 13:45
InstruID : SV6.i
LabSampID : LCSD-213459

Chrysene-d12 (1719-03-5)

Reason Code:

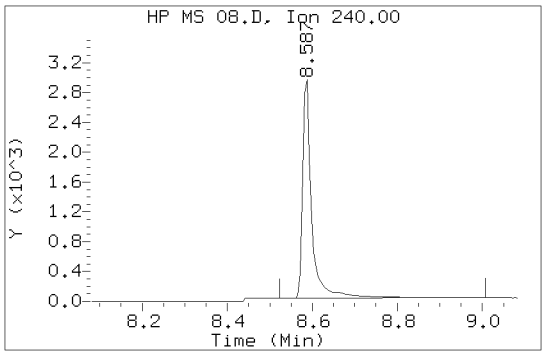
BEFORE

MASS
240
AREA
320
HEIGHT
46
22-Jun-2024
14:00
ALSHS
Server



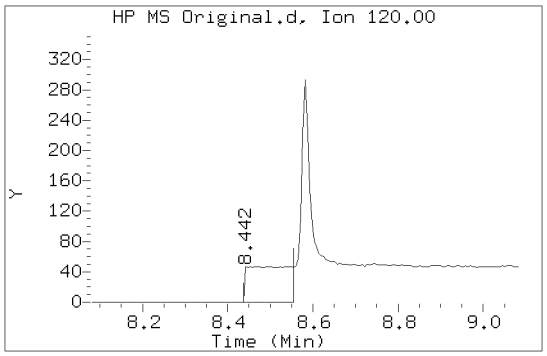
AFTER

MASS
240
AREA
4310
HEIGHT
2927
24-Jun-2024
15:40
ALSHS
Server



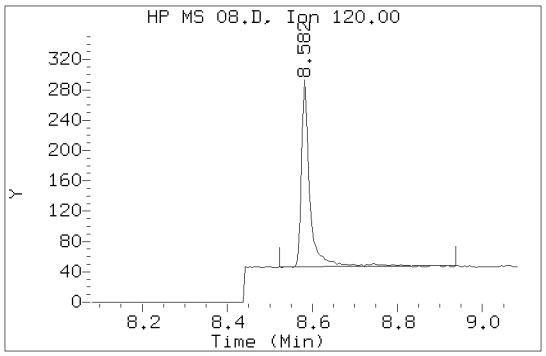
BEFORE

MASS
120
AREA
330
HEIGHT
47
22-Jun-2024
14:00
ALSHS
Server



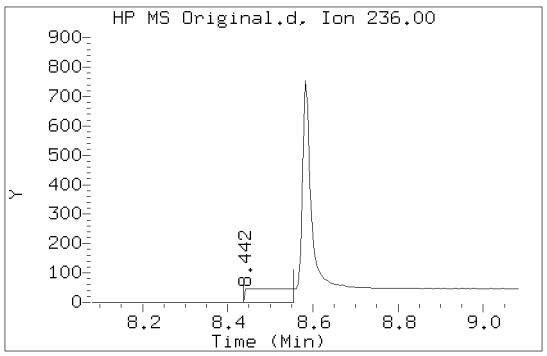
AFTER

MASS
120
AREA
324
HEIGHT
245
24-Jun-2024
15:40
ALSHS
Server



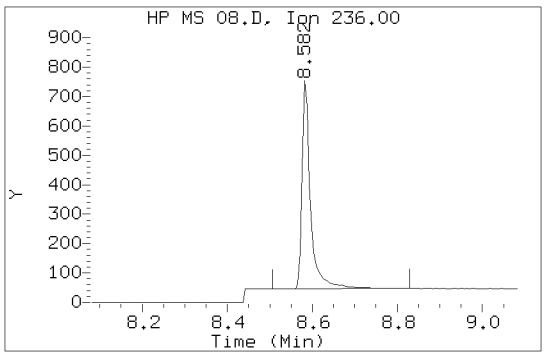
BEFORE

MASS
236
AREA
322
HEIGHT
46
22-Jun-2024
14:00
ALSHS
Server



AFTER

MASS
236
AREA
971
HEIGHT
707
24-Jun-2024
15:40
ALSHS
Server

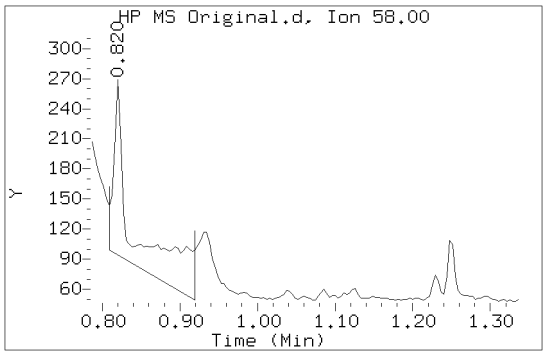


1,4-Dioxane ()

Reason Code:

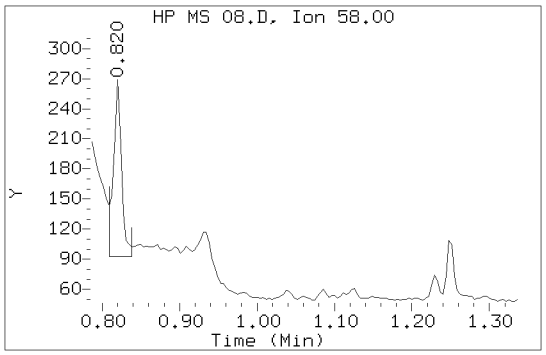
BEFORE

MASS
58
AREA
302
HEIGHT
175
22-Jun-2024
14:00
ALSHS
Server



AFTER

MASS
58
AREA
132
HEIGHT
176
24-Jun-2024
15:40
ALSHS
Server



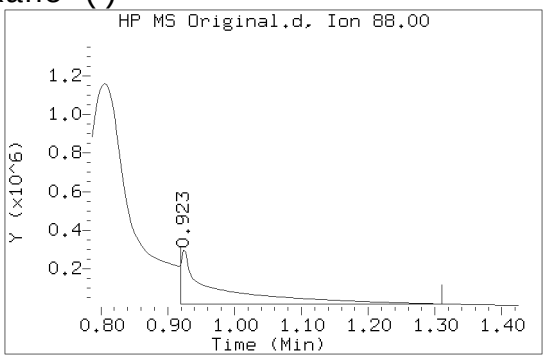
Data File : \\NAHSTWS005\Target\chem\SV6.i\240622.b\08.D
Inj Date : 22-JUN-2024 13:45
InstruID : SV6.i
LabSampID : LCSD-213459

1,4-Dioxane ()

Reason Code:

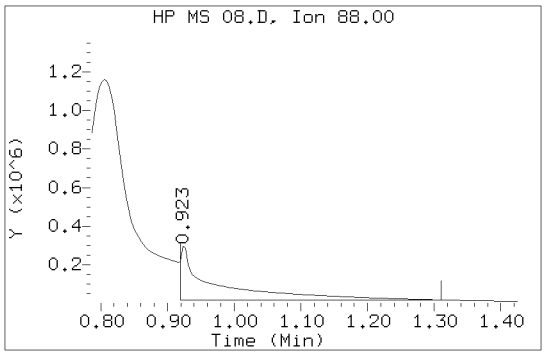
BEFORE

MASS
88
AREA
974267
HEIGHT
280352
22-Jun-2024
14:00
ALSHS
Server



AFTER

MASS
88
AREA
974267
HEIGHT
280352
24-Jun-2024
15:40
ALSHS
Server

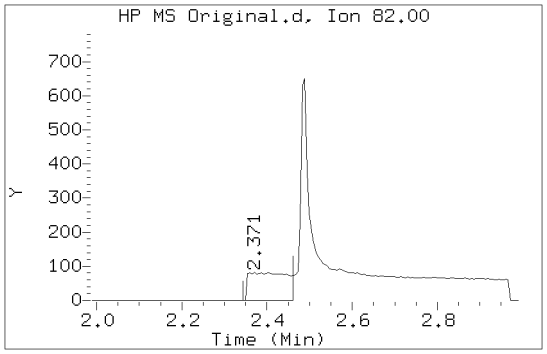


Nitrobenzene-d5 (4165-60-0)

Reason Code:

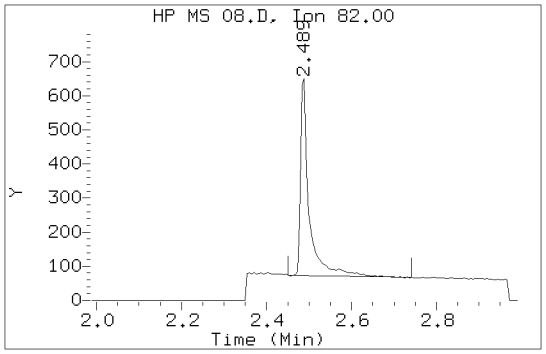
BEFORE

MASS
82
AREA
525
HEIGHT
82
22-Jun-2024
14:00
ALSHS
Server



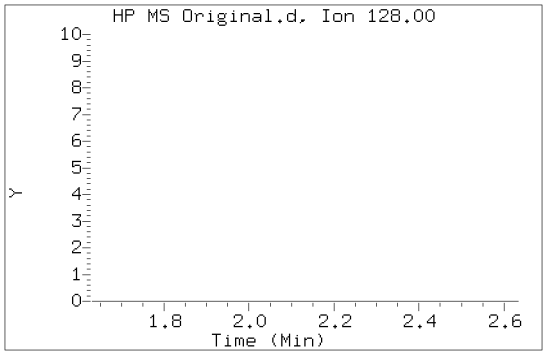
AFTER

MASS
82
AREA
807
HEIGHT
576
24-Jun-2024
15:40
ALSHS
Server



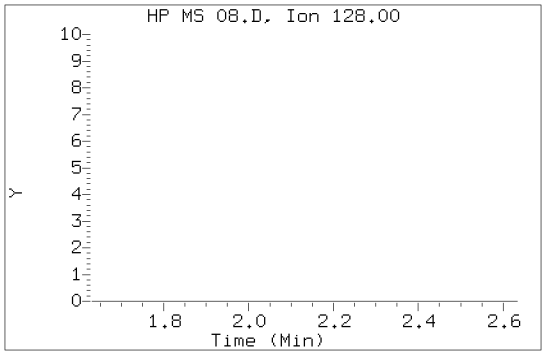
BEFORE

MASS
128
AREA
0
HEIGHT
0
22-Jun-2024
14:00
ALSHS
Server



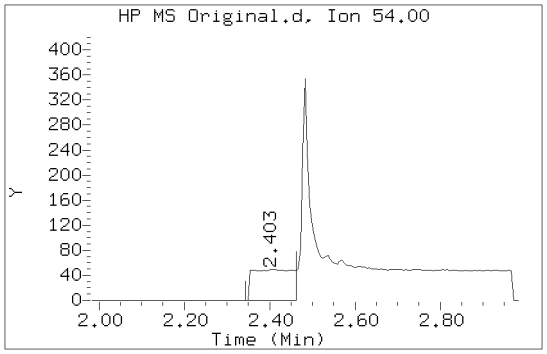
AFTER

MASS
128
AREA
0
HEIGHT
0
24-Jun-2024
15:40
ALSHS
Server



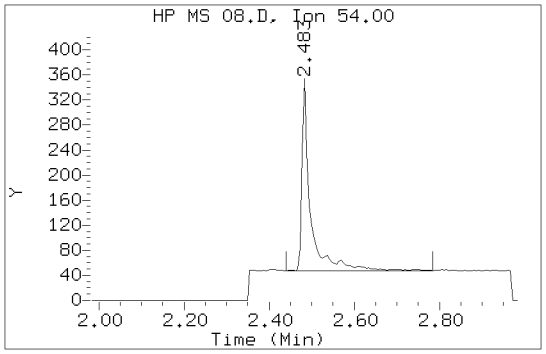
BEFORE

MASS
54
AREA
323
HEIGHT
49
22-Jun-2024
14:00
ALSHS
Server



AFTER

MASS
54
AREA
431
HEIGHT
307
24-Jun-2024
15:40
ALSHS
Server



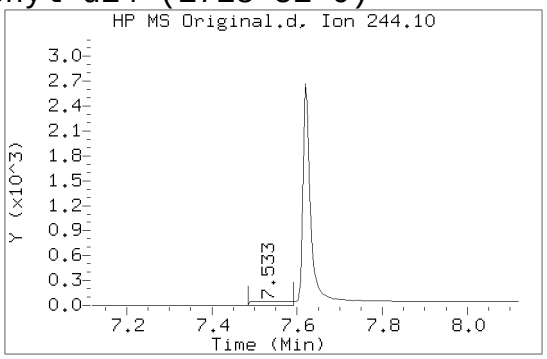
Data File : \\NAHSTWS005\Target\chem\SV6.i\240622.b\08.D
Inj Date : 22-JUN-2024 13:45
InstruID : SV6.i
LabSampID : LCSD-213459

4-Terphenyl-d14 (1718-51-0)

Reason Code:

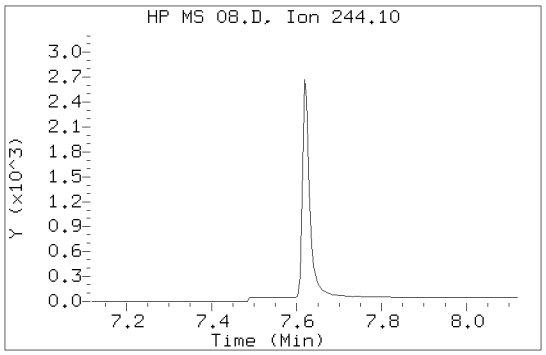
BEFORE

MASS
244.1
AREA
285
HEIGHT
45
22-Jun-2024
14:00
ALSHS
Server



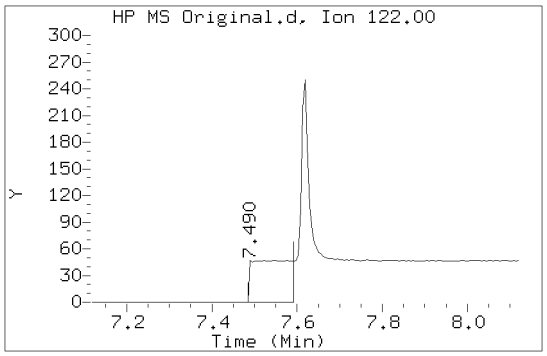
AFTER

MASS
244.1
AREA
5835
HEIGHT
2670
24-Jun-2024
15:40
ALSHS
Server



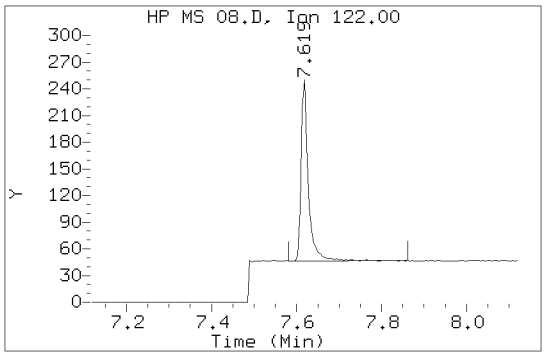
BEFORE

MASS
122
AREA
298
HEIGHT
47
22-Jun-2024
14:00
ALSHS
Server



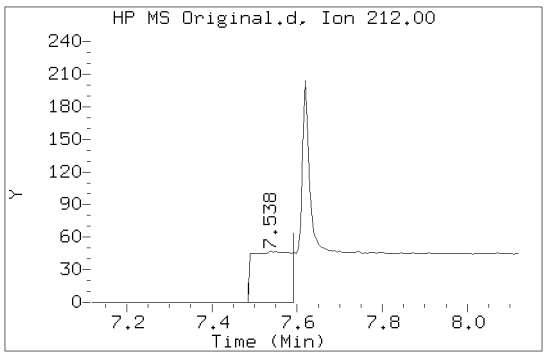
AFTER

MASS
122
AREA
242
HEIGHT
203
24-Jun-2024
15:40
ALSHS
Server



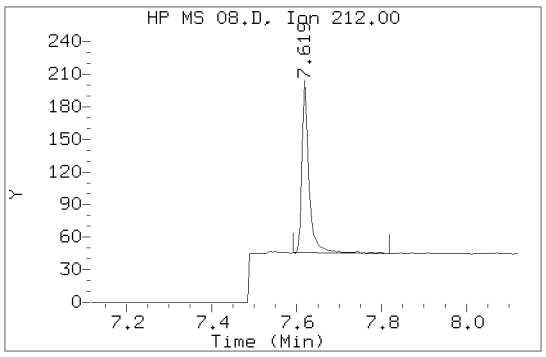
BEFORE

MASS
212
AREA
294
HEIGHT
47
22-Jun-2024
14:00
ALSHS
Server



AFTER

MASS
212
AREA
181
HEIGHT
158
24-Jun-2024
15:40
ALSHS
Server

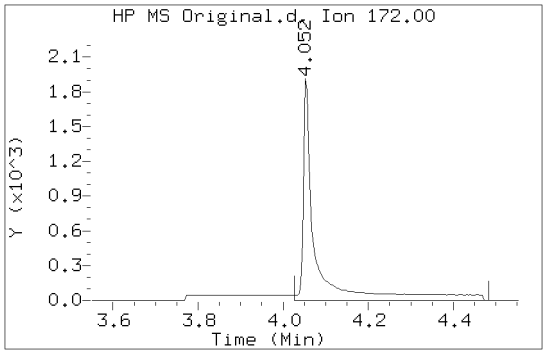


2-Fluorobiphenyl (321-60-8)

Reason Code:

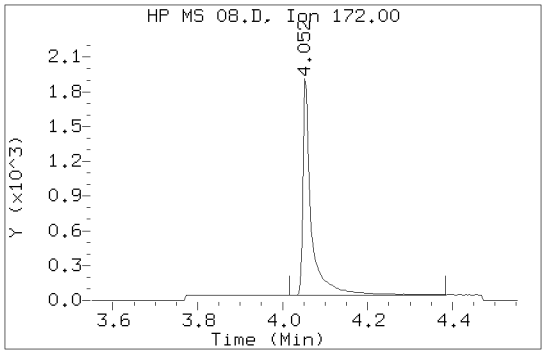
BEFORE

MASS
172
AREA
3855
HEIGHT
1913
22-Jun-2024
14:00
ALSHS
Server



AFTER

MASS
172
AREA
2599
HEIGHT
1868
24-Jun-2024
15:40
ALSHS
Server



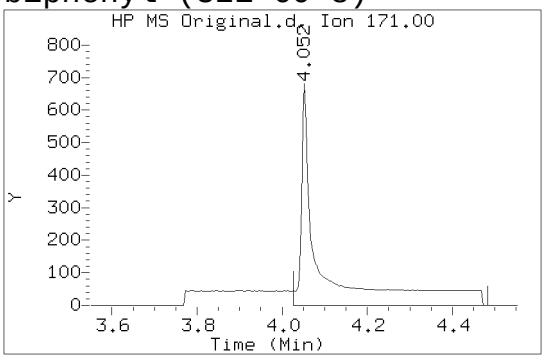
Data File : \\NAHSTWS005\Target\chem\SV6.i\240622.b\08.D
Inj Date : 22-JUN-2024 13:45
InstruID : SV6.i
LabSampID : LCSD-213459

2-Fluorobiphenyl (321-60-8)

Reason Code:

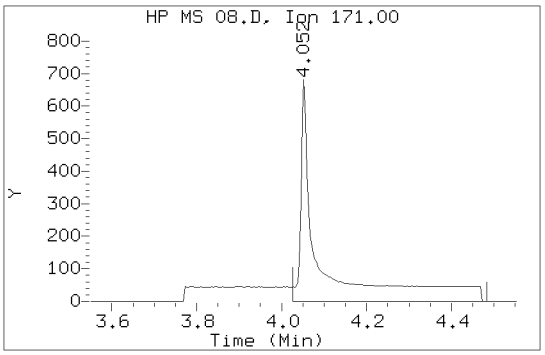
BEFORE

MASS
171
AREA
2077
HEIGHT
681
22-Jun-2024
14:00
ALSHS
Server



AFTER

MASS
171
AREA
2077
HEIGHT
681
24-Jun-2024
15:40
ALSHS
Server



Data File: \\NAHSTWS005\Target\chem\SV6.i\240622.b\15.D Page 1
Report Date: 24-Jun-2024 15:42

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240622.b\15.D
Lab Smp Id: HS24060747-01
Inj Date : 22-JUN-2024 15:47
Operator : LG Inst ID: SV6.i
Smp Info : HS24060747-01
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240622.b\DXSIM.m
Meth Date : 22-Jun-2024 12:47 SV6.i Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7015

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	2.086	2.080	(1.000)	1969	0.10000	(aM)
* 45 Naphthalene-d8	136	3.063	3.063	(1.000)	6587	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.488	2.488	(0.812)	1523	0.07702	0.07702(M)
* 86 Acenaphthene-d10	164	4.659	4.654	(1.000)	4705	0.10000	
$ 69 2-Fluorobiphenyl	172	4.052	4.052	(0.870)	4673	0.06497	0.06497(M)
* 126 Phenanthrene-d10	188	6.059	6.054	(1.000)	7464	0.10000	(M)
* 182 Chrysene-d12	240	8.587	8.581	(1.000)	7175	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.624	7.618	(0.888)	9370	0.06410	0.06410(M)
* 198 Perylene-d12	264	10.174	10.174	(1.000)	7652	0.10000	(M)
1 1,4-Dioxane	58	0.860	0.834	(0.413)	20945	4.96623	4.966(AQ)

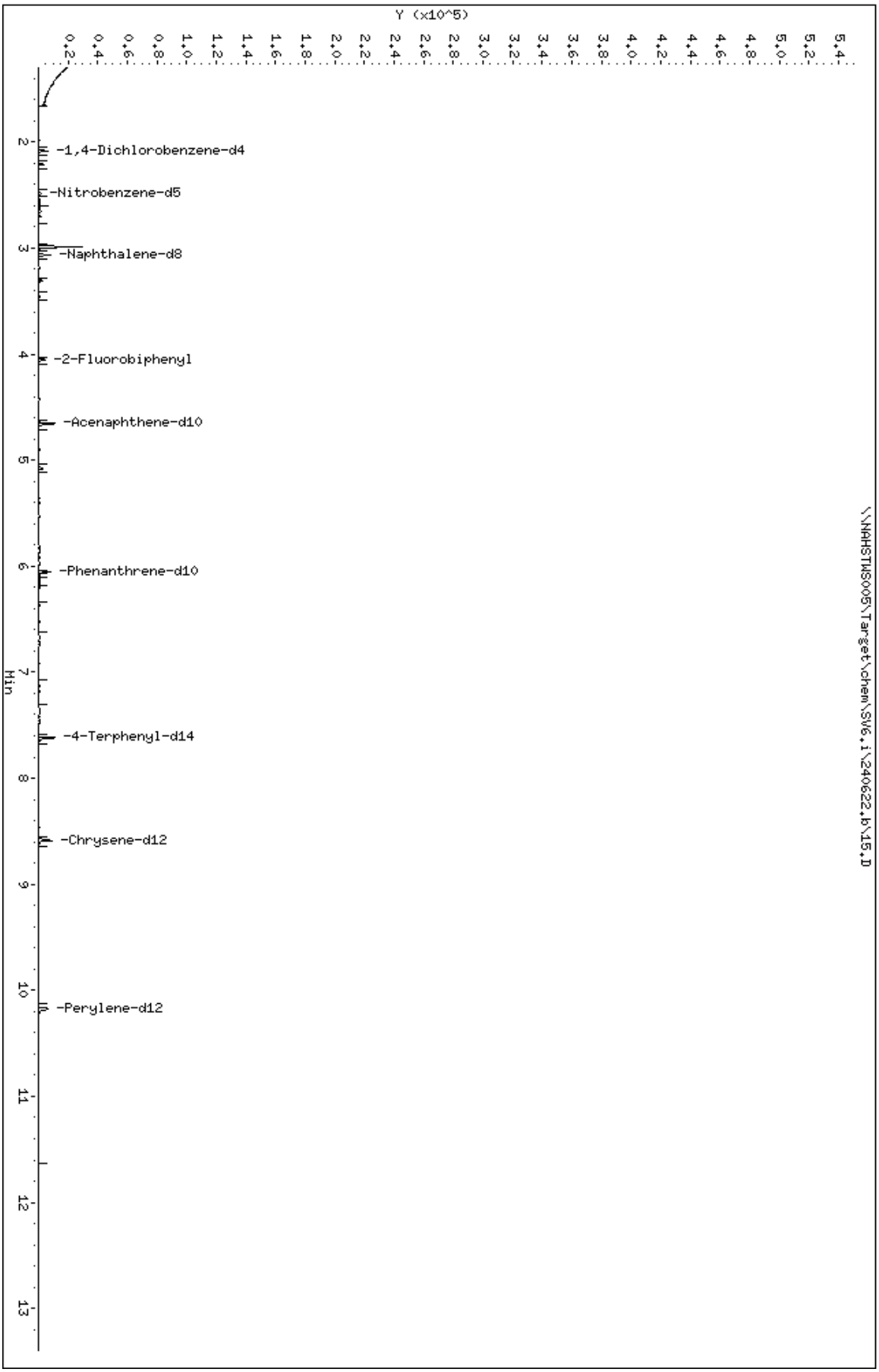
QC Flag Legend

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\SV6,i\240622,b\15.D
Date : 22-JUN-2024 15:47
Client ID:
Sample Info: HS24060747-01
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SV6,i
Operator: LG
Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\240622.b\15.D

Date : 22-JUN-2024 15:47

Client ID:

Instrument: SV6.i

Sample Info: HS24060747-01

Purge Volume: 1000.0

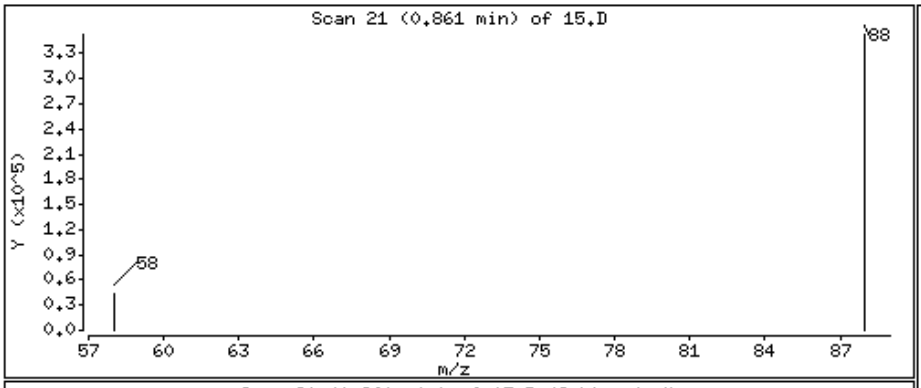
Operator: LG

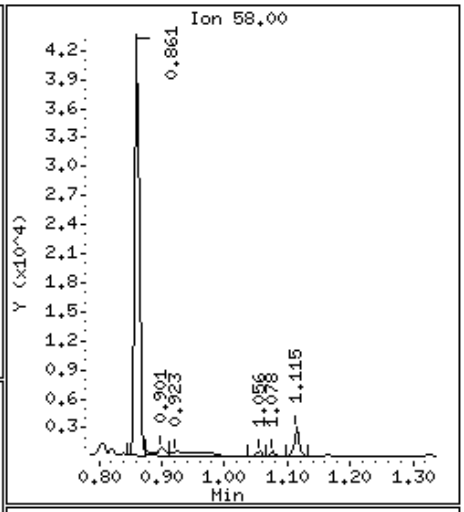
Column phase: RTX-5SIL MS

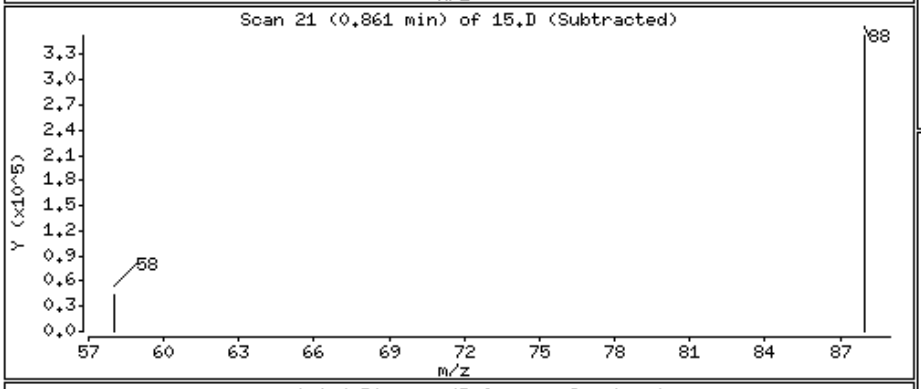
Column diameter: 0.28

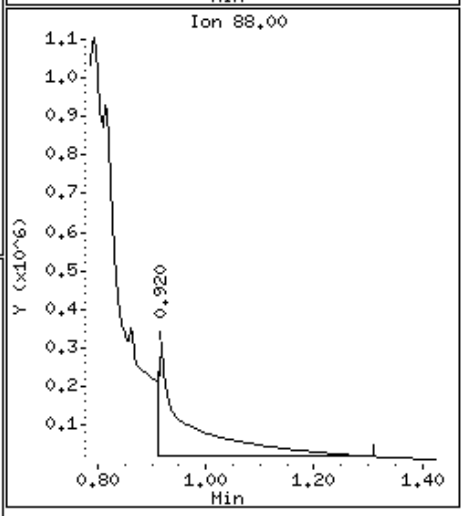
1 1,4-Dioxane

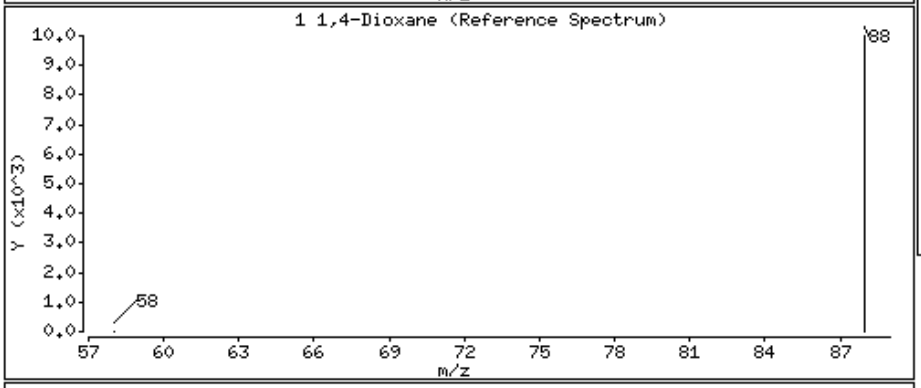
Concentration: 4.966 ug/L

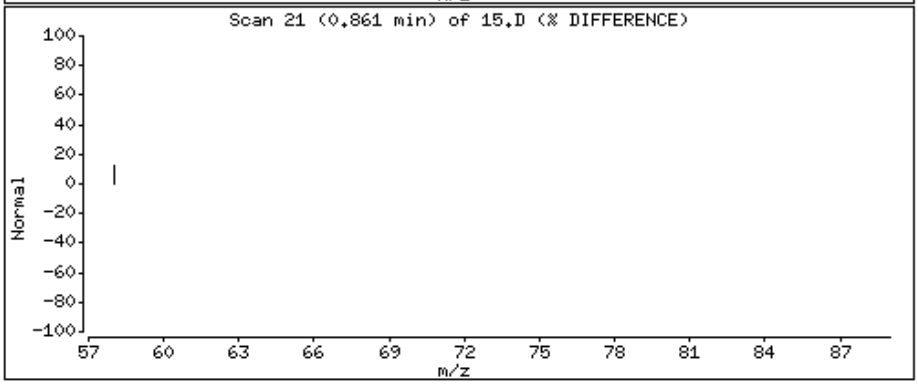












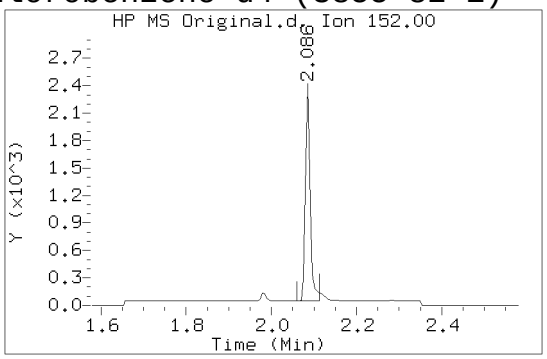
Data File : \\NAHSTWS005\Target\chem\SV6.i\240622.b\15.D
Inj Date : 22-JUN-2024 15:47
InstruID : SV6.i
LabSampID : HS24060747-01

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

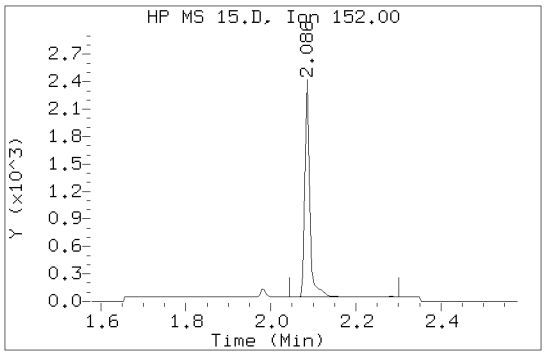
BEFORE

MASS
152
AREA
1870
HEIGHT
2373
22-Jun-2024
16:01
ALSHS
Server



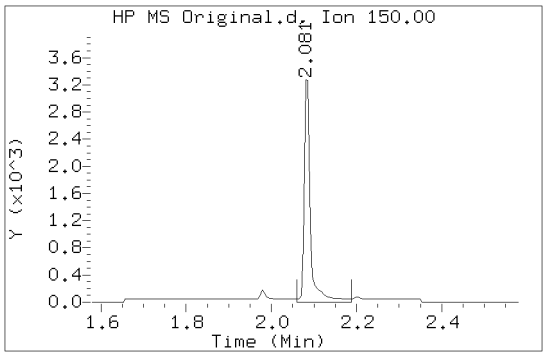
AFTER

MASS
152
AREA
1969
HEIGHT
2374
24-Jun-2024
15:42
ALSHS
Server



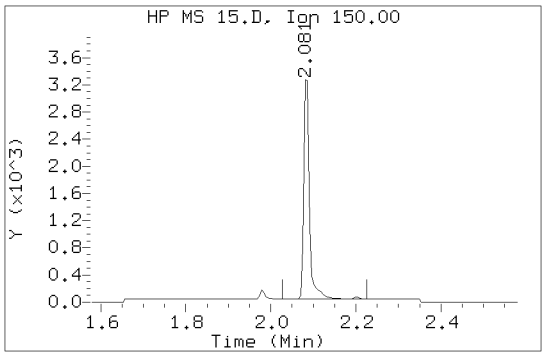
BEFORE

MASS
150
AREA
3428
HEIGHT
3273
22-Jun-2024
16:01
ALSHS
Server



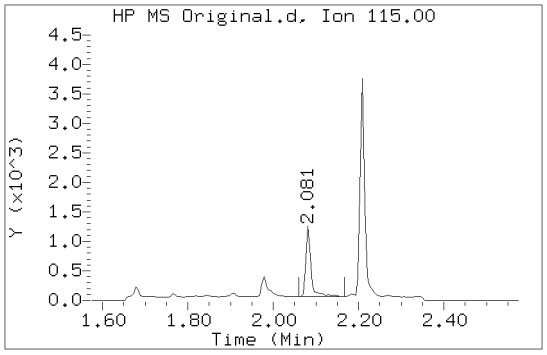
AFTER

MASS
150
AREA
3056
HEIGHT
3224
24-Jun-2024
15:42
ALSHS
Server



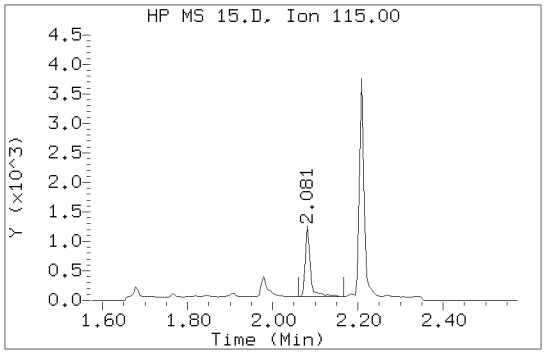
BEFORE

MASS
115
AREA
1046
HEIGHT
1203
22-Jun-2024
16:01
ALSHS
Server



AFTER

MASS
115
AREA
1046
HEIGHT
1203
24-Jun-2024
15:42
ALSHS
Server

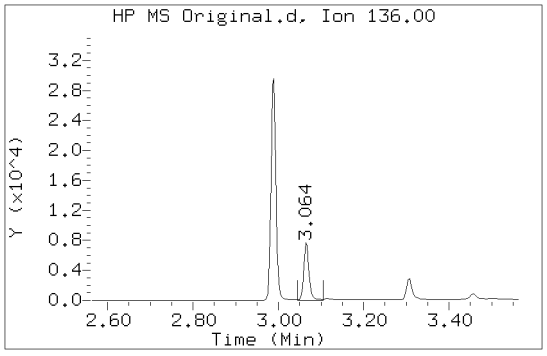


Naphthalene-d8 (1146-65-2)

Reason Code:

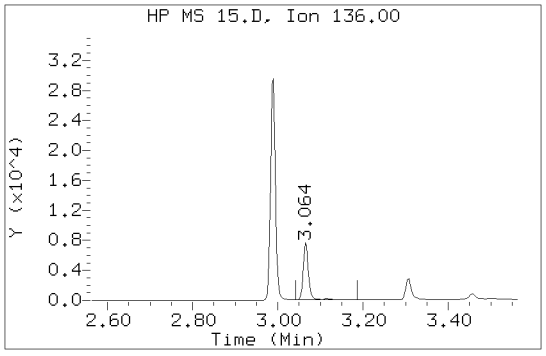
BEFORE

MASS
136
AREA
6645
HEIGHT
7643
22-Jun-2024
16:01
ALSHS
Server



AFTER

MASS
136
AREA
6587
HEIGHT
7583
24-Jun-2024
15:42
ALSHS
Server



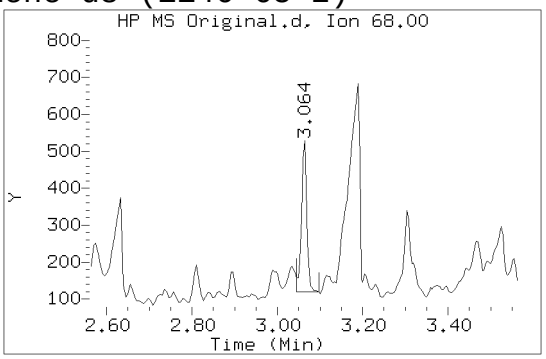
Data File : \\NAHSTWS005\Target\chem\SV6.i\240622.b\15.D
Inj Date : 22-JUN-2024 15:47
InstruID : SV6.i
LabSampID : HS24060747-01

Naphthalene-d8 (1146-65-2)

Reason Code:

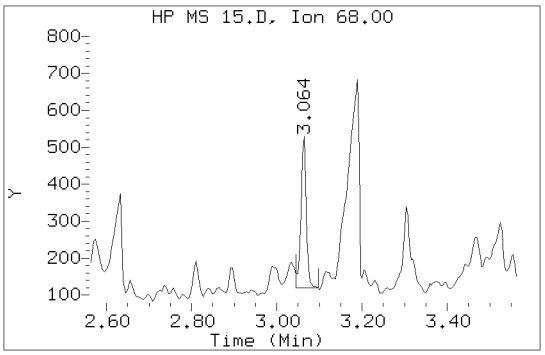
BEFORE

MASS
68
AREA
364
HEIGHT
410
22-Jun-2024
16:01
ALSHS
Server



AFTER

MASS
68
AREA
364
HEIGHT
410
24-Jun-2024
15:42
ALSHS
Server

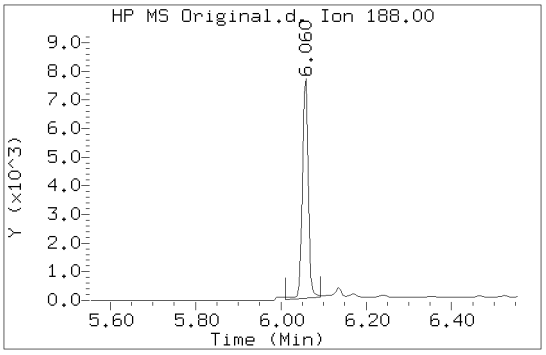


Phenanthrene-d10 (1517-22-2)

Reason Code:

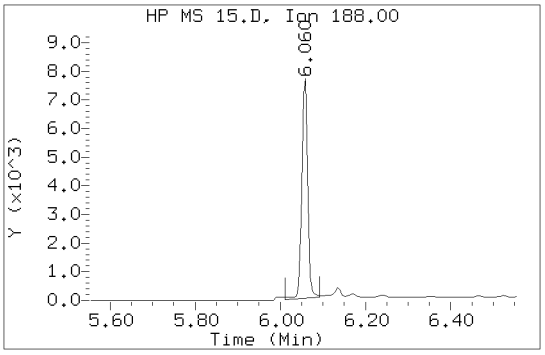
BEFORE

MASS
188
AREA
7464
HEIGHT
7669
22-Jun-2024
16:01
ALSHS
Server



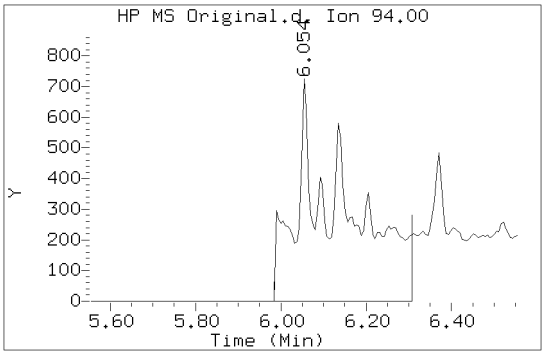
AFTER

MASS
188
AREA
7464
HEIGHT
7669
24-Jun-2024
15:42
ALSHS
Server



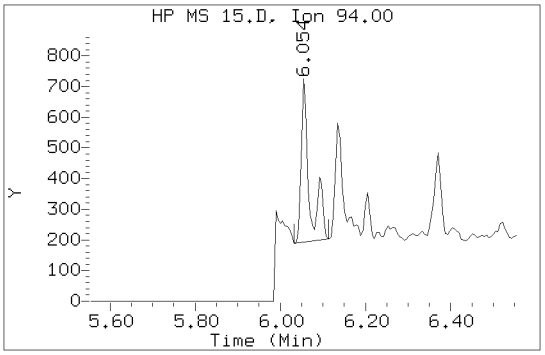
BEFORE

MASS
94
AREA
5467
HEIGHT
725
22-Jun-2024
16:01
ALSHS
Server



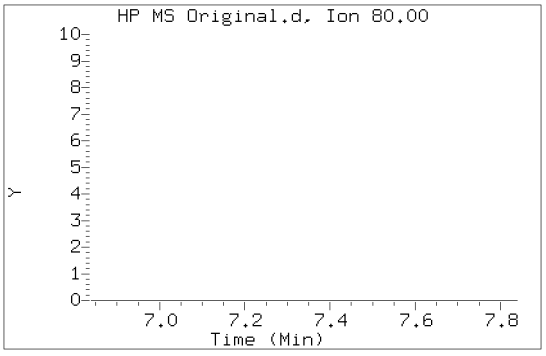
AFTER

MASS
94
AREA
706
HEIGHT
532
24-Jun-2024
15:42
ALSHS
Server



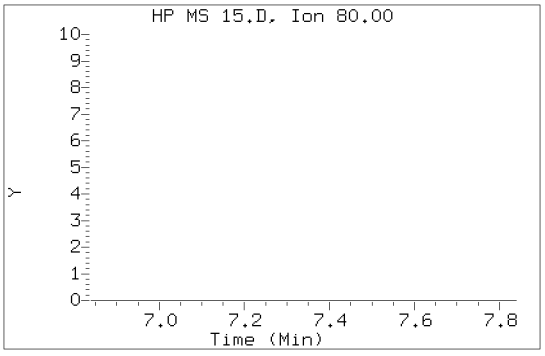
BEFORE

MASS
80
AREA
0
HEIGHT
0
22-Jun-2024
16:01
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
24-Jun-2024
15:42
ALSHS
Server



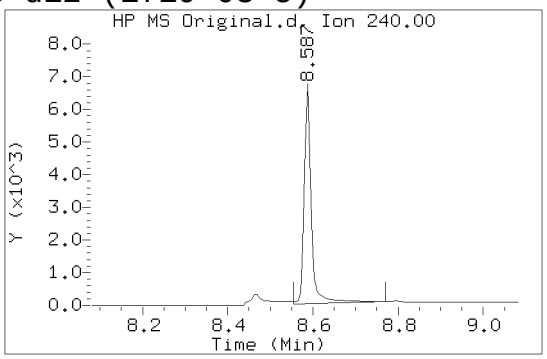
Data File : \\NAHSTWS005\Target\chem\SV6.i\240622.b\15.D
Inj Date : 22-JUN-2024 15:47
InstruID : SV6.i
LabSampID : HS24060747-01

Chrysene-d12 (1719-03-5)

Reason Code:

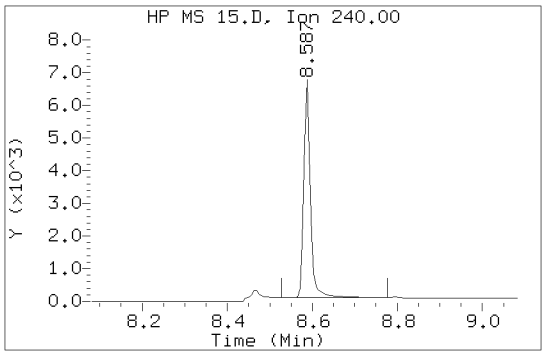
BEFORE

MASS
240
AREA
7662
HEIGHT
6738
22-Jun-2024
16:01
ALSHS
Server



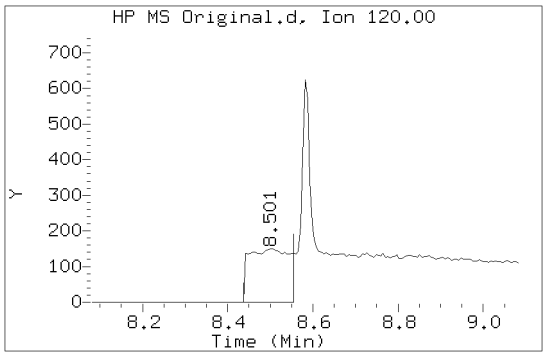
AFTER

MASS
240
AREA
7175
HEIGHT
6677
24-Jun-2024
15:42
ALSHS
Server



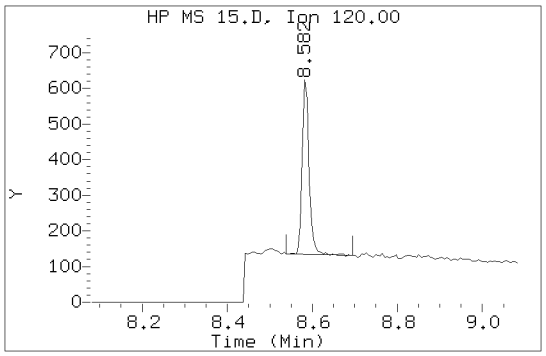
BEFORE

MASS
120
AREA
994
HEIGHT
150
22-Jun-2024
16:01
ALSHS
Server



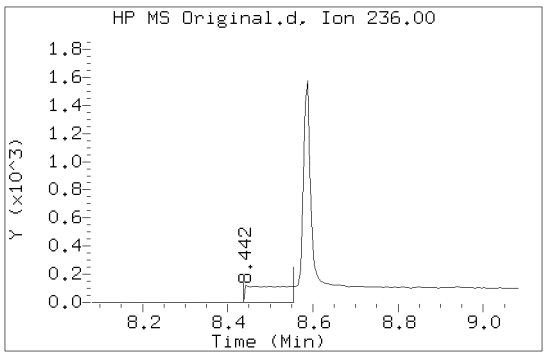
AFTER

MASS
120
AREA
547
HEIGHT
490
24-Jun-2024
15:42
ALSHS
Server



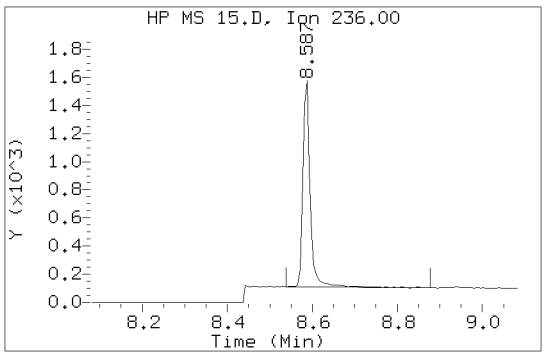
BEFORE

MASS
236
AREA
800
HEIGHT
117
22-Jun-2024
16:01
ALSHS
Server



AFTER

MASS
236
AREA
1707
HEIGHT
1466
24-Jun-2024
15:42
ALSHS
Server

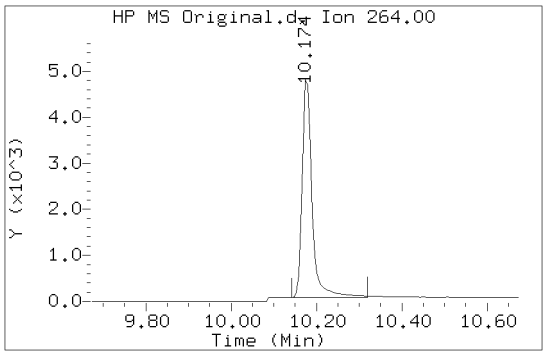


Perylene-d12 (1520-96-3)

Reason Code:

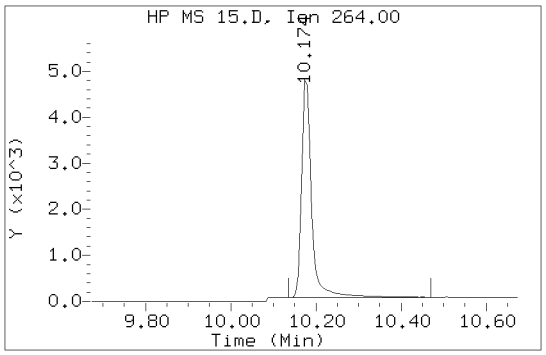
BEFORE

MASS
264
AREA
7562
HEIGHT
4729
22-Jun-2024
16:01
ALSHS
Server



AFTER

MASS
264
AREA
7652
HEIGHT
4728
24-Jun-2024
15:42
ALSHS
Server



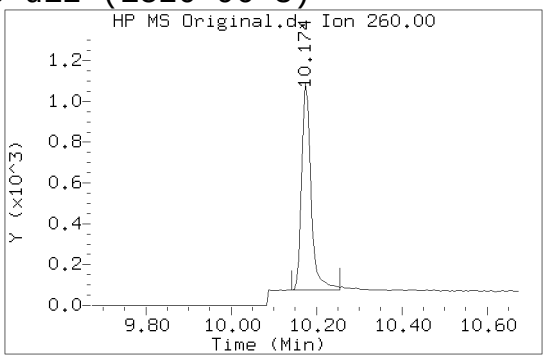
Data File : \\NAHSTWS005\Target\chem\SV6.i\240622.b\15.D
Inj Date : 22-JUN-2024 15:47
InstruID : SV6.i
LabSampID : HS24060747-01

Perylene-d12 (1520-96-3)

Reason Code:

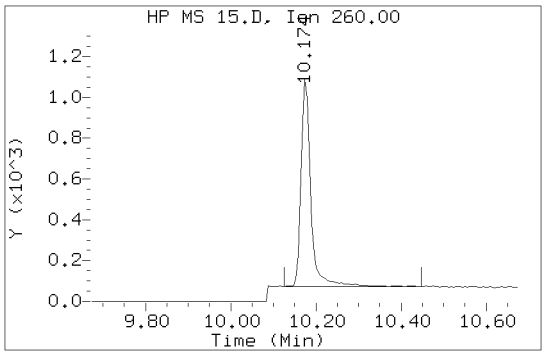
BEFORE

MASS
260
AREA
1556
HEIGHT
1013
22-Jun-2024
16:01
ALSHS
Server



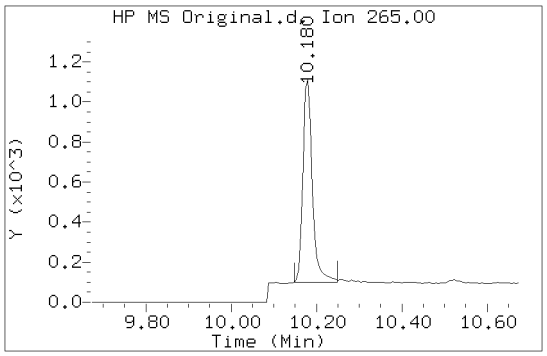
AFTER

MASS
260
AREA
1642
HEIGHT
1015
24-Jun-2024
15:42
ALSHS
Server



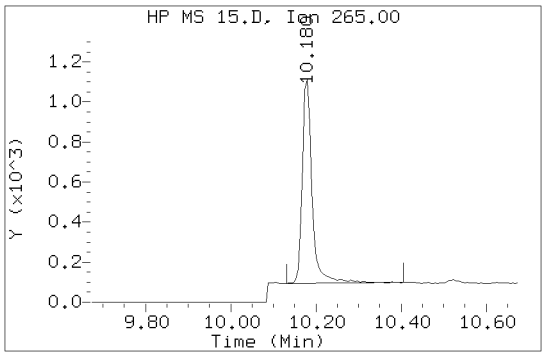
BEFORE

MASS
265
AREA
1540
HEIGHT
1010
22-Jun-2024
16:01
ALSHS
Server



AFTER

MASS
265
AREA
1595
HEIGHT
1014
24-Jun-2024
15:42
ALSHS
Server

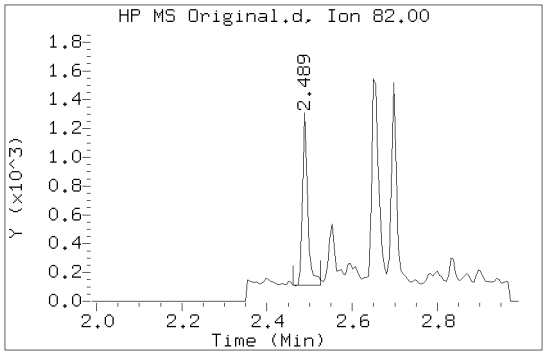


Nitrobenzene-d5 (4165-60-0)

Reason Code:

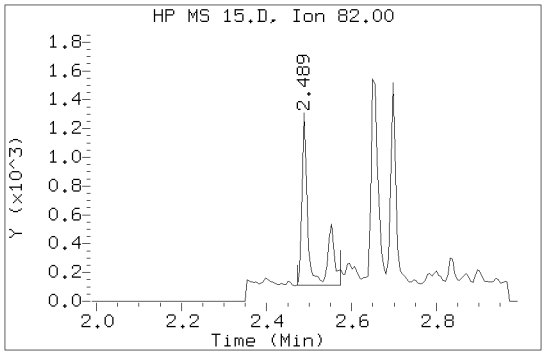
BEFORE

MASS
82
AREA
1040
HEIGHT
1194
22-Jun-2024
16:01
ALSHS
Server



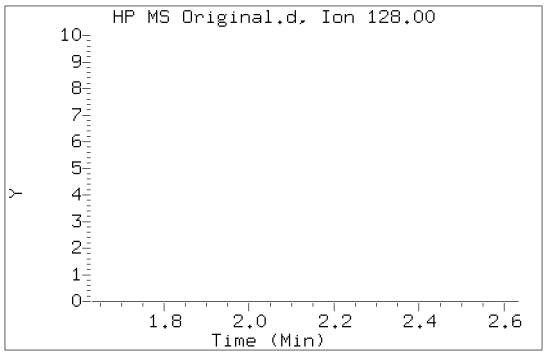
AFTER

MASS
82
AREA
1523
HEIGHT
1195
24-Jun-2024
15:42
ALSHS
Server



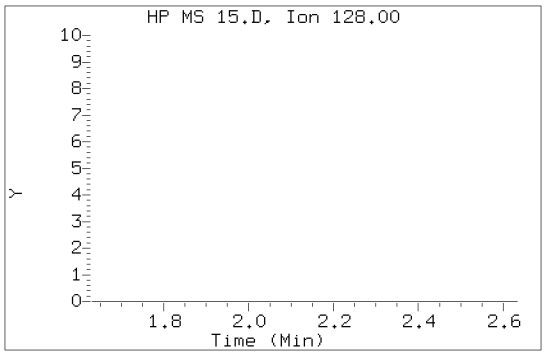
BEFORE

MASS
128
AREA
0
HEIGHT
0
22-Jun-2024
16:01
ALSHS
Server



AFTER

MASS
128
AREA
0
HEIGHT
0
24-Jun-2024
15:42
ALSHS
Server

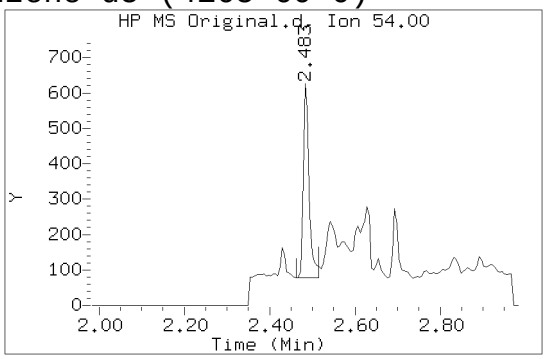


Data File : \\NAHSTWS005\Target\chem\SV6.i\240622.b\15.D
Inj Date : 22-JUN-2024 15:47
InstruID : SV6.i
LabSampID : HS24060747-01

Nitrobenzene-d5 (4165-60-0)

BEFORE

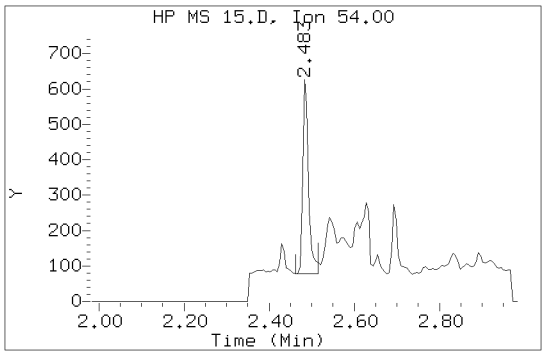
MASS
54
AREA
516
HEIGHT
548
22-Jun-2024
16:01
ALSHS
Server



Reason Code:

AFTER

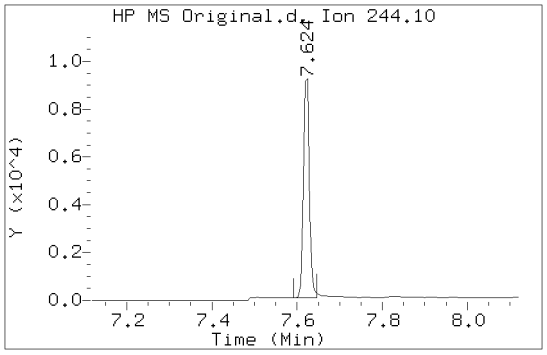
MASS
54
AREA
516
HEIGHT
548
24-Jun-2024
15:42
ALSHS
Server



4-Terphenyl-d14 (1718-51-0)

BEFORE

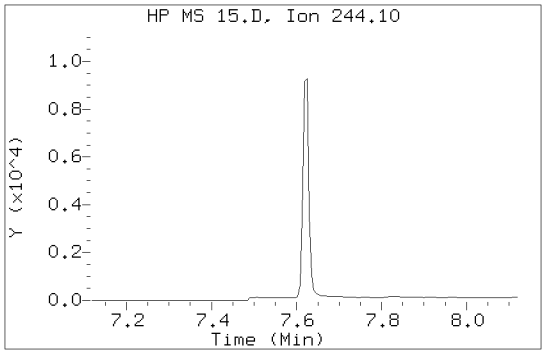
MASS
244.1
AREA
8744
HEIGHT
9156
22-Jun-2024
16:01
ALSHS
Server



Reason Code:

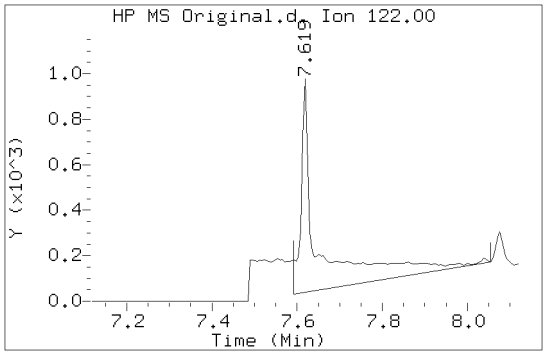
AFTER

MASS
244.1
AREA
9370
HEIGHT
9162
24-Jun-2024
15:42
ALSHS
Server



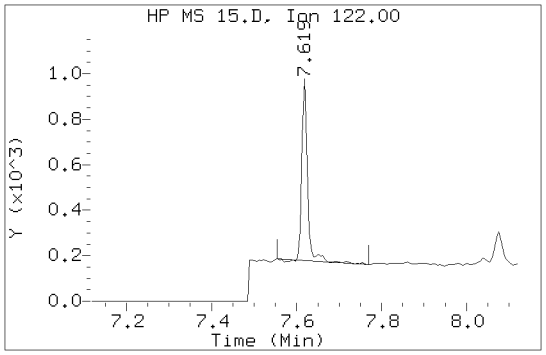
BEFORE

MASS
122
AREA
2561
HEIGHT
936
22-Jun-2024
16:01
ALSHS
Server



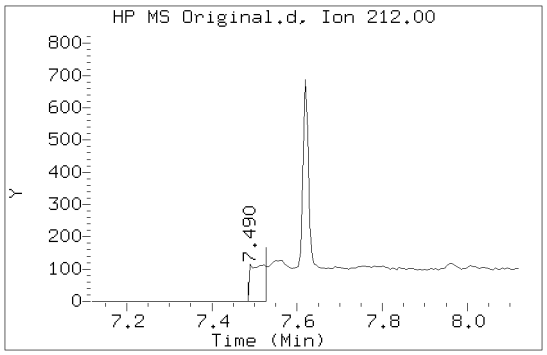
AFTER

MASS
122
AREA
704
HEIGHT
797
24-Jun-2024
15:42
ALSHS
Server



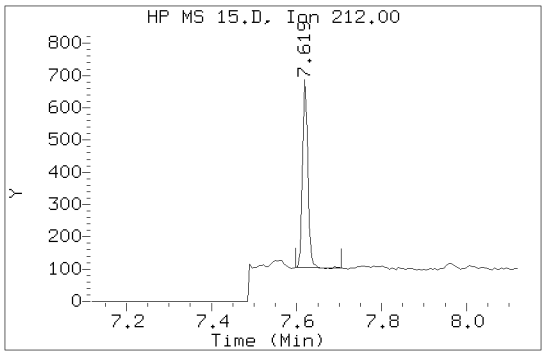
BEFORE

MASS
212
AREA
281
HEIGHT
115
22-Jun-2024
16:01
ALSHS
Server



AFTER

MASS
212
AREA
491
HEIGHT
582
24-Jun-2024
15:42
ALSHS
Server



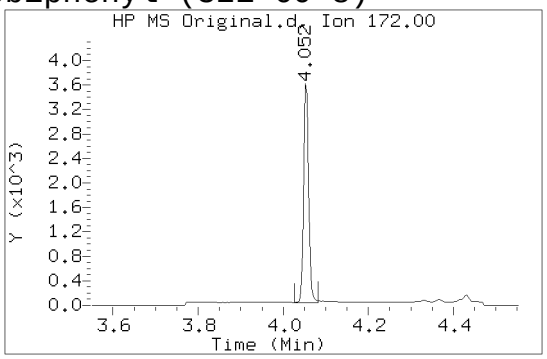
Data File : \\NAHSTWS005\Target\chem\SV6.i\240622.b\15.D
Inj Date : 22-JUN-2024 15:47
InstruID : SV6.i
LabSampID : HS24060747-01

2-Fluorobiphenyl (321-60-8)

Reason Code:

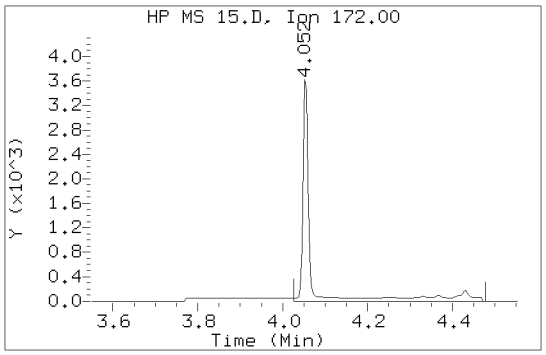
BEFORE

MASS
172
AREA
2944
HEIGHT
3574
22-Jun-2024
16:01
ALSHS
Server



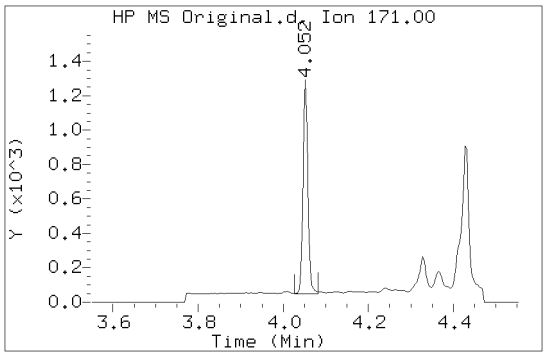
AFTER

MASS
172
AREA
4673
HEIGHT
3624
24-Jun-2024
15:42
ALSHS
Server



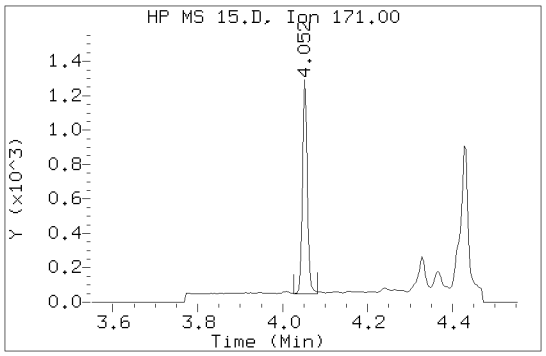
BEFORE

MASS
171
AREA
1001
HEIGHT
1242
22-Jun-2024
16:01
ALSHS
Server



AFTER

MASS
171
AREA
1001
HEIGHT
1242
24-Jun-2024
15:42
ALSHS
Server



Data File: \\NAHSTWS005\Target\chem\SV6.i\240622.b\16.D Page 1
Report Date: 24-Jun-2024 15:42

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240622.b\16.D
Lab Smp Id: HS24060747-02
Inj Date : 22-JUN-2024 16:04
Operator : LG Inst ID: SV6.i
Smp Info : HS24060747-02
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240622.b\DXSIM.m
Meth Date : 22-Jun-2024 12:47 SV6.i Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7015

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	2.085	2.080	(1.000)	1678	0.10000	(aM)
* 45 Naphthalene-d8	136	3.063	3.063	(1.000)	5806	0.10000	(H)
$ 33 Nitrobenzene-d5	82	2.488	2.488	(0.812)	1221	0.07005	0.07005(M)
* 86 Acenaphthene-d10	164	4.659	4.654	(1.000)	3944	0.10000	
$ 69 2-Fluorobiphenyl	172	4.052	4.052	(0.870)	3917	0.06497	0.06497(M)
* 126 Phenanthrene-d10	188	6.059	6.054	(1.000)	6498	0.10000	(Q)
* 182 Chrysene-d12	240	8.587	8.581	(1.000)	9244	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.624	7.618	(0.888)	16826	0.08935	0.08935(M)
* 198 Perylene-d12	264	10.179	10.174	(1.000)	6574	0.10000	
1 1,4-Dioxane	58	0.849	0.834	(0.407)	21968	6.11210	6.112(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.
Q - Qualifier signal failed the ratio test.

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240622.b\16.D

Date : 22-JUN-2024 16:04

Client ID:

Instrument: SV6.i

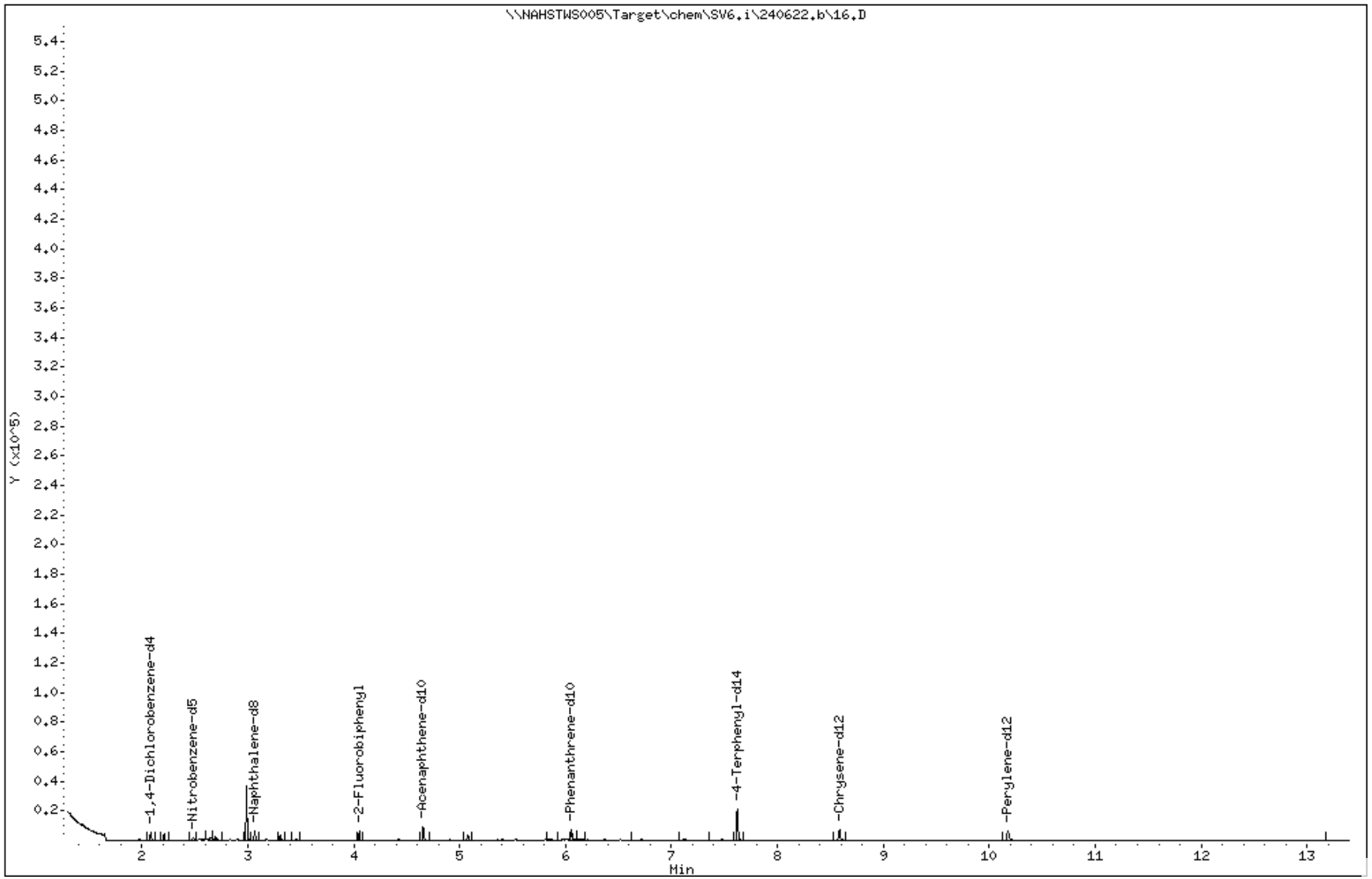
Sample Info: HS24060747-02

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\240622.b\16.D Page 2

Date : 22-JUN-2024 16:04

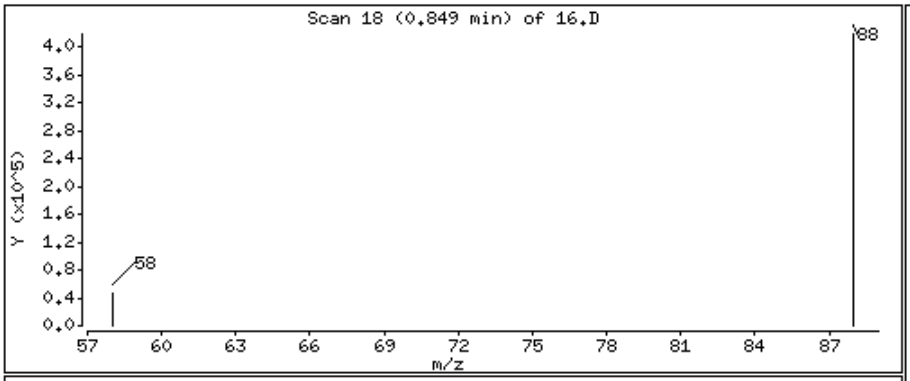
Client ID: Instrument: SV6.i

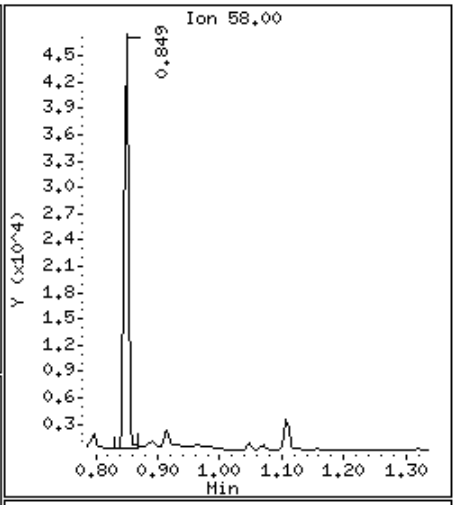
Sample Info: HS24060747-02

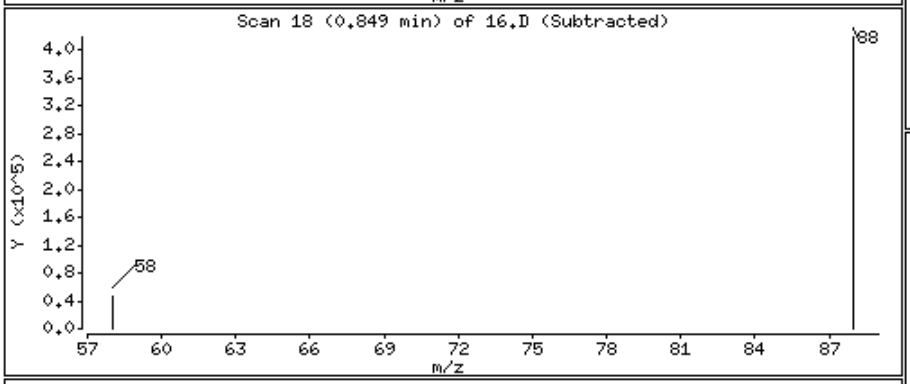
Purge Volume: 1000.0 Operator: LG

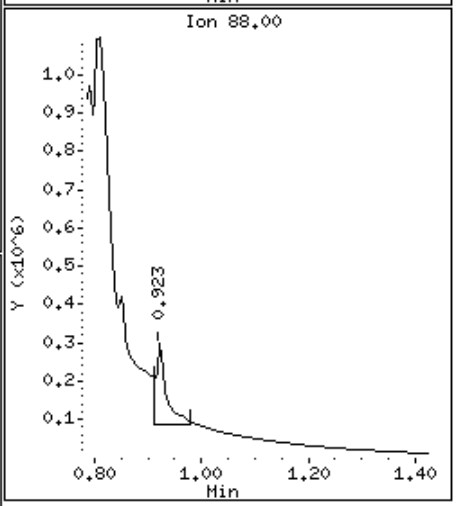
Column phase: RTX-5SIL MS Column diameter: 0.28

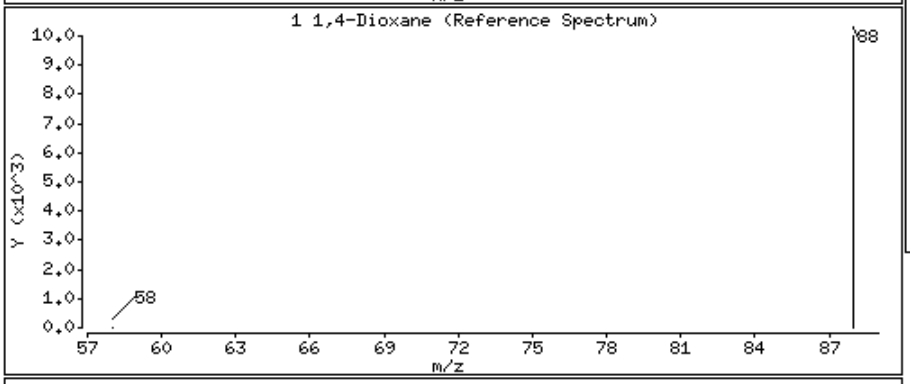
1 1,4-Dioxane Concentration: 6.112 ug/L

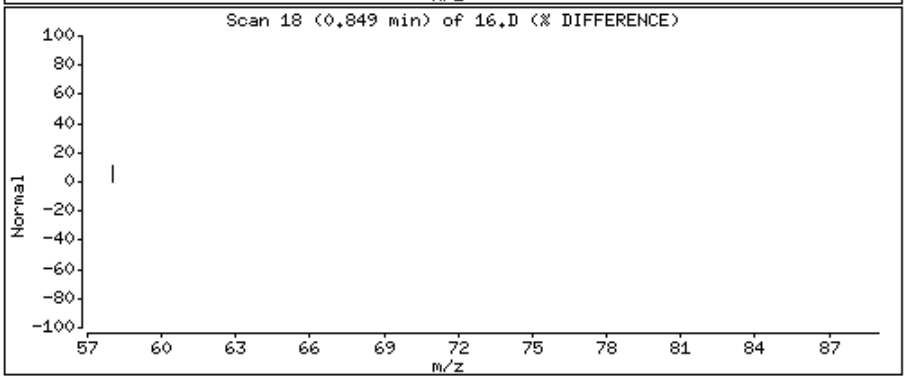












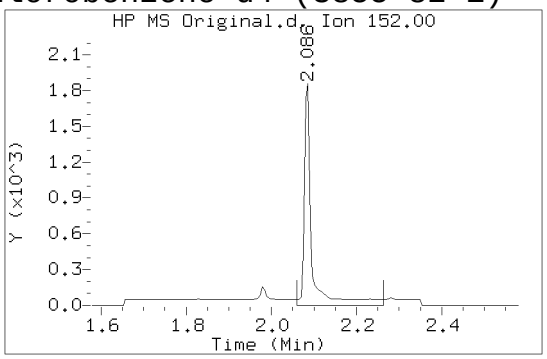
Data File : \\NAHSTWS005\Target\chem\SV6.i\240622.b\16.D
Inj Date : 22-JUN-2024 16:04
InstruID : SV6.i
LabSampID : HS24060747-02

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

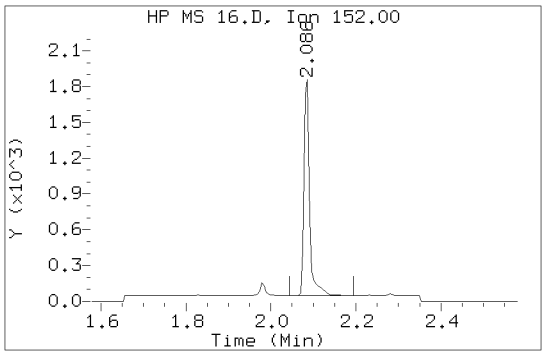
BEFORE

MASS
152
AREA
2295
HEIGHT
1858
22-Jun-2024
16:20
ALSHS
Server



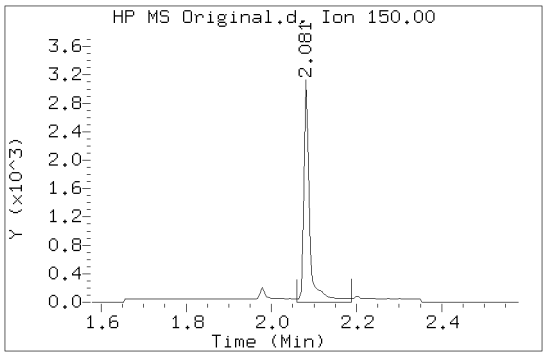
AFTER

MASS
152
AREA
1678
HEIGHT
1809
24-Jun-2024
15:42
ALSHS
Server



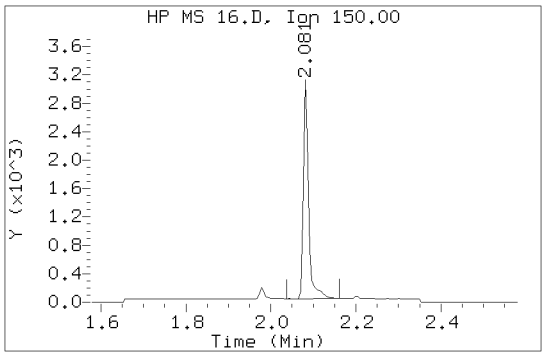
BEFORE

MASS
150
AREA
3041
HEIGHT
3130
22-Jun-2024
16:20
ALSHS
Server



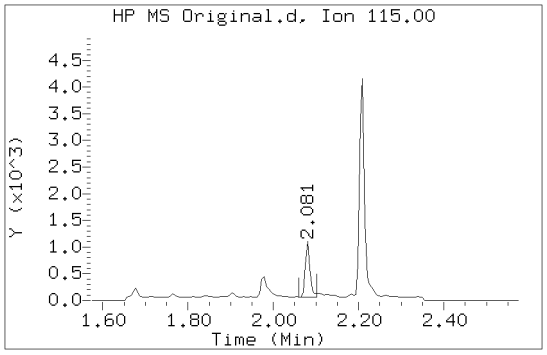
AFTER

MASS
150
AREA
2624
HEIGHT
3079
24-Jun-2024
15:42
ALSHS
Server



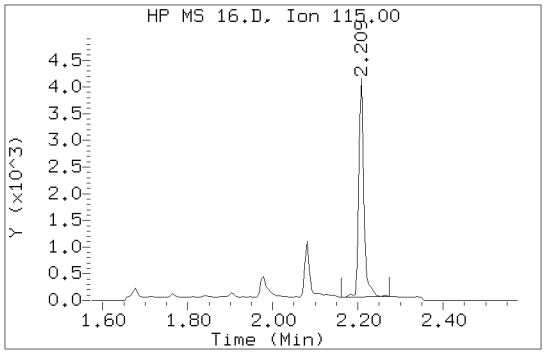
BEFORE

MASS
115
AREA
804
HEIGHT
1035
22-Jun-2024
16:20
ALSHS
Server



AFTER

MASS
115
AREA
3383
HEIGHT
4087
24-Jun-2024
15:42
ALSHS
Server

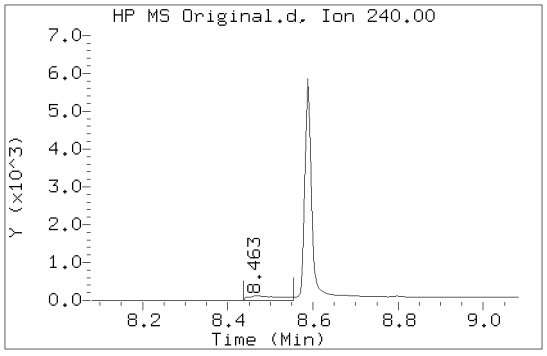


Chrysene-d12 (1719-03-5)

Reason Code:

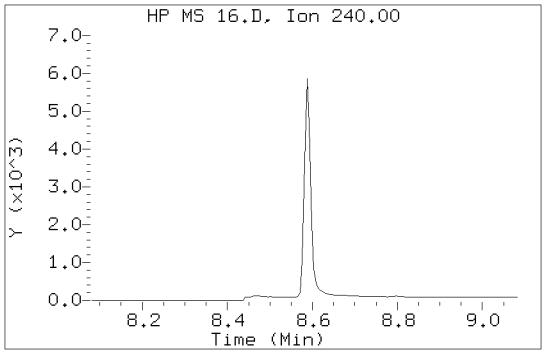
BEFORE

MASS
240
AREA
681
HEIGHT
124
22-Jun-2024
16:20
ALSHS
Server



AFTER

MASS
240
AREA
9244
HEIGHT
5846
24-Jun-2024
15:42
ALSHS
Server



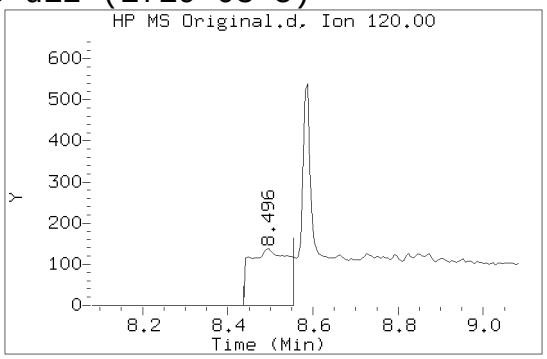
Data File : \\NAHSTWS005\Target\chem\SV6.i\240622.b\16.D
Inj Date : 22-JUN-2024 16:04
InstruID : SV6.i
LabSampID : HS24060747-02

Chrysene-d12 (1719-03-5)

Reason Code:

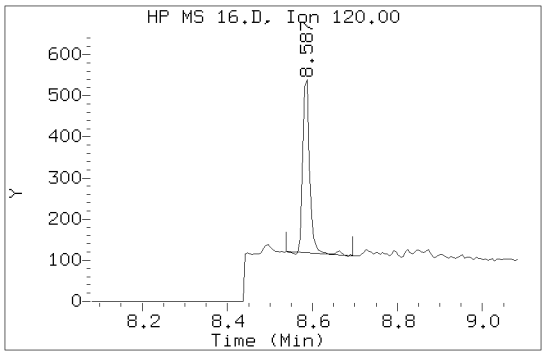
BEFORE

MASS
120
AREA
861
HEIGHT
139
22-Jun-2024
16:20
ALSHS
Server



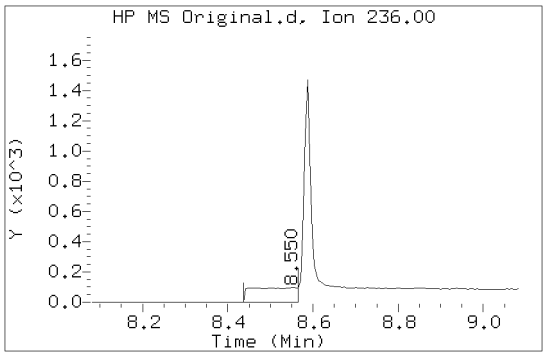
AFTER

MASS
120
AREA
461
HEIGHT
420
24-Jun-2024
15:42
ALSHS
Server



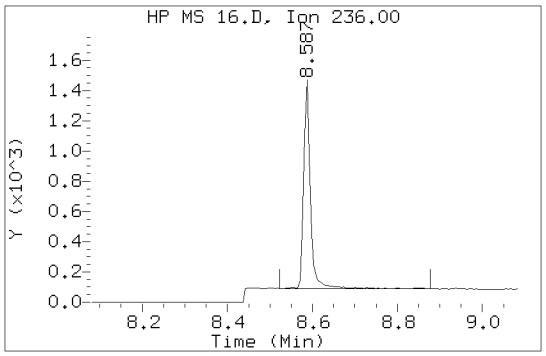
BEFORE

MASS
236
AREA
716
HEIGHT
97
22-Jun-2024
16:20
ALSHS
Server



AFTER

MASS
236
AREA
1502
HEIGHT
1380
24-Jun-2024
15:42
ALSHS
Server

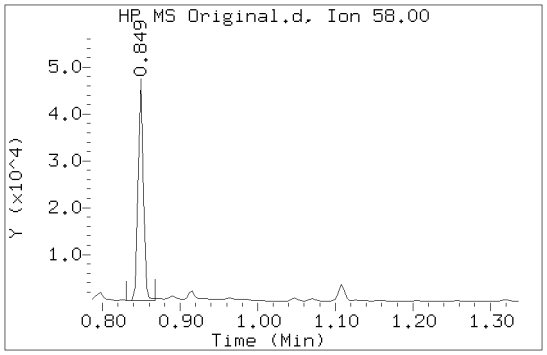


1,4-Dioxane ()

Reason Code:

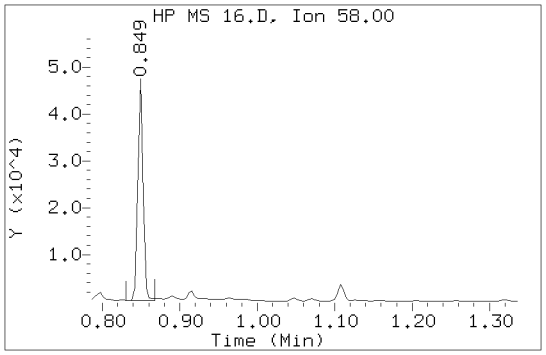
BEFORE

MASS
58
AREA
21968
HEIGHT
47251
22-Jun-2024
16:20
ALSHS
Server



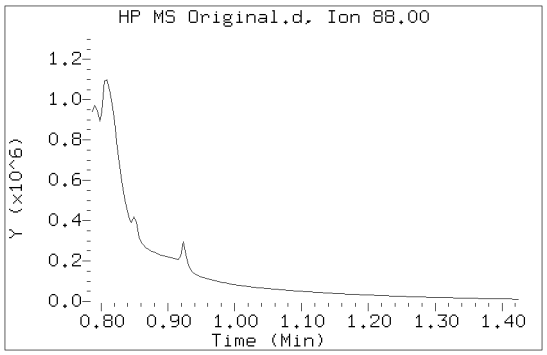
AFTER

MASS
58
AREA
21968
HEIGHT
47251
24-Jun-2024
15:42
ALSHS
Server



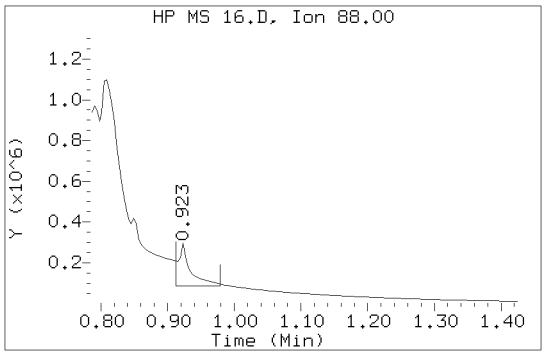
BEFORE

MASS
88
AREA
0
HEIGHT
0
22-Jun-2024
16:20
ALSHS
Server



AFTER

MASS
88
AREA
273853
HEIGHT
210175
24-Jun-2024
15:42
ALSHS
Server



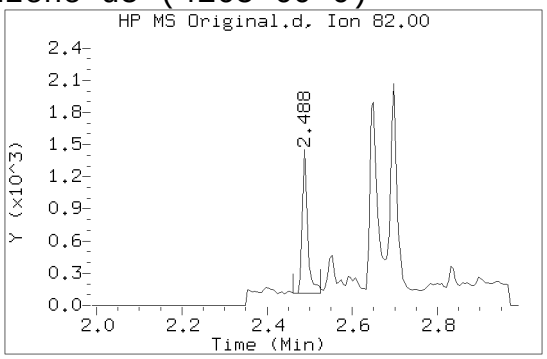
Data File : \\NAHSTWS005\Target\chem\SV6.i\240622.b\16.D
Inj Date : 22-JUN-2024 16:04
InstruID : SV6.i
LabSampID : HS24060747-02

Nitrobenzene-d5 (4165-60-0)

Reason Code:

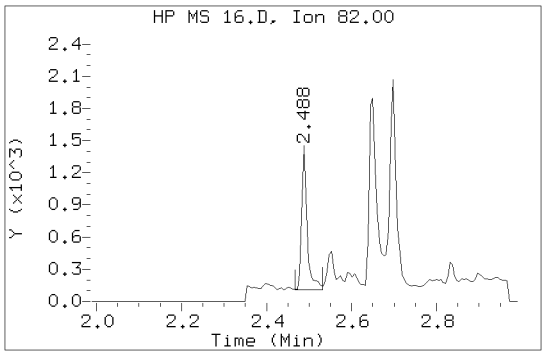
BEFORE

MASS
82
AREA
1208
HEIGHT
1341
22-Jun-2024
16:20
ALSHS
Server



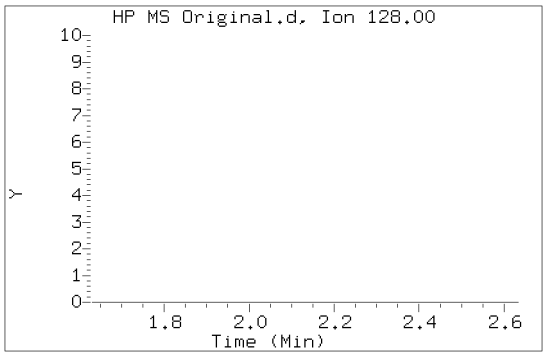
AFTER

MASS
82
AREA
1221
HEIGHT
1342
24-Jun-2024
15:42
ALSHS
Server



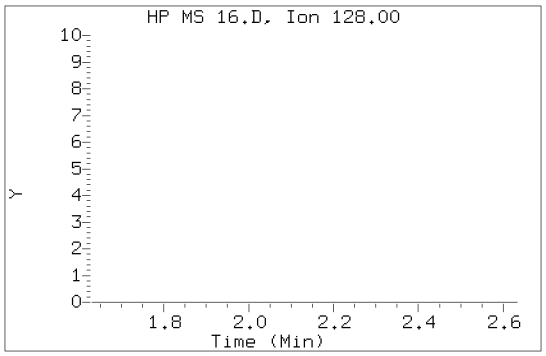
BEFORE

MASS
128
AREA
0
HEIGHT
0
22-Jun-2024
16:20
ALSHS
Server



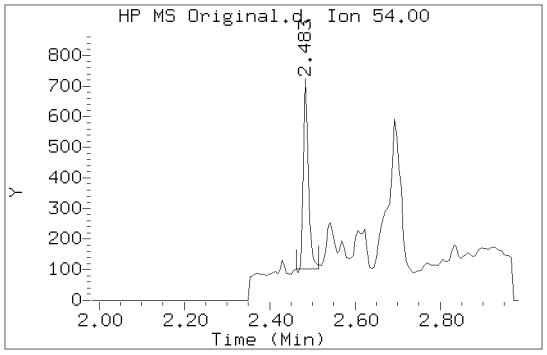
AFTER

MASS
128
AREA
0
HEIGHT
0
24-Jun-2024
15:42
ALSHS
Server



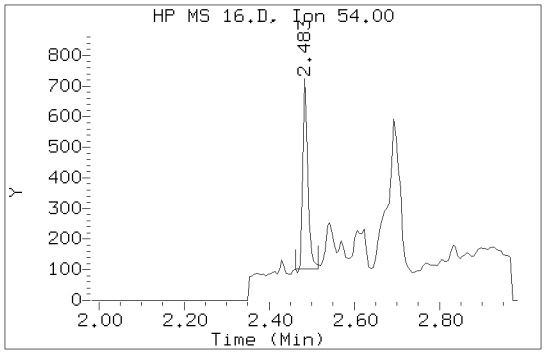
BEFORE

MASS
54
AREA
510
HEIGHT
622
22-Jun-2024
16:20
ALSHS
Server



AFTER

MASS
54
AREA
510
HEIGHT
622
24-Jun-2024
15:42
ALSHS
Server

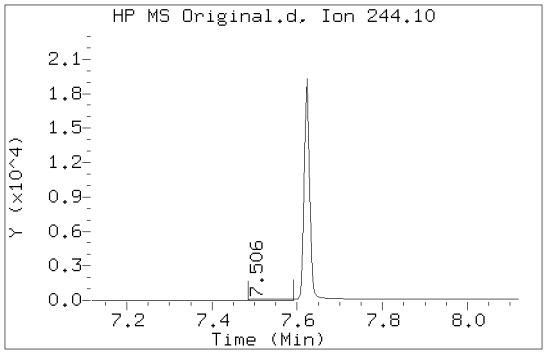


4-Terphenyl-d14 (1718-51-0)

Reason Code:

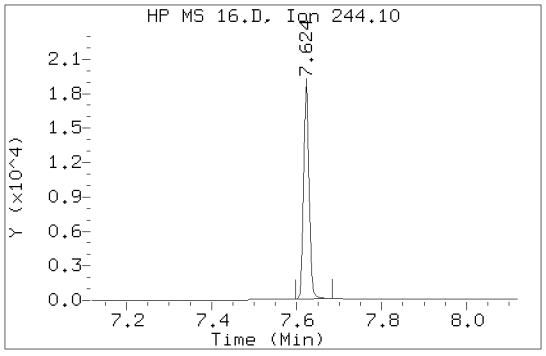
BEFORE

MASS
244.1
AREA
586
HEIGHT
98
22-Jun-2024
16:20
ALSHS
Server



AFTER

MASS
244.1
AREA
16826
HEIGHT
19193
24-Jun-2024
15:42
ALSHS
Server

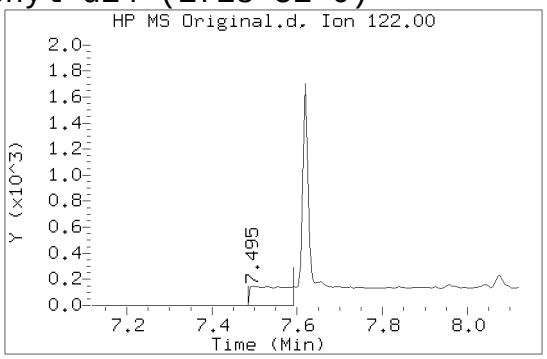


Data File : \\NAHSTWS005\Target\chem\SV6.i\240622.b\16.D
Inj Date : 22-JUN-2024 16:04
InstruID : SV6.i
LabSampID : HS24060747-02

4-Terphenyl-d14 (1718-51-0)

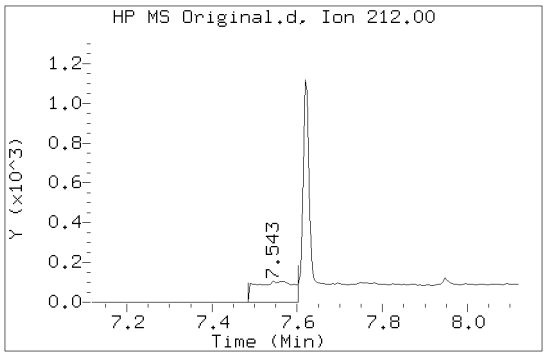
BEFORE

MASS
122
AREA
902
HEIGHT
146
22-Jun-2024
16:20
ALSHS
Server



BEFORE

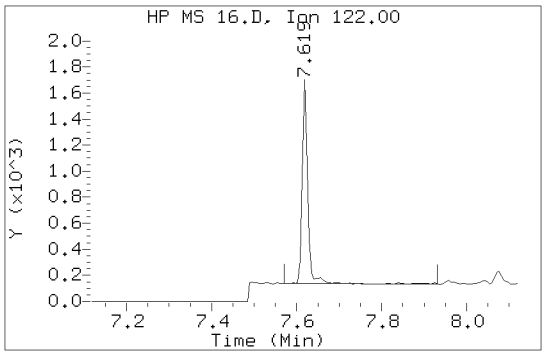
MASS
212
AREA
657
HEIGHT
106
22-Jun-2024
16:20
ALSHS
Server



Reason Code:

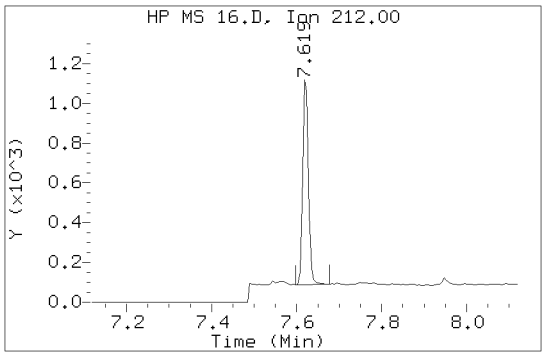
AFTER

MASS
122
AREA
1405
HEIGHT
1565
24-Jun-2024
15:42
ALSHS
Server



AFTER

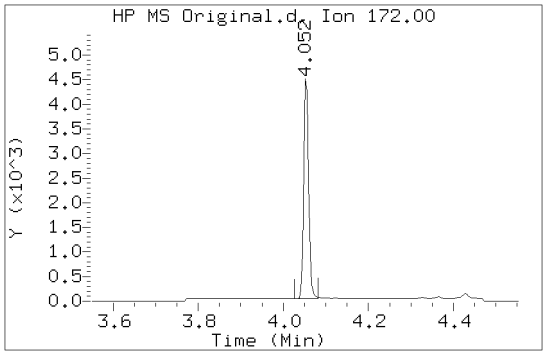
MASS
212
AREA
958
HEIGHT
1029
24-Jun-2024
15:42
ALSHS
Server



2-Fluorobiphenyl (321-60-8)

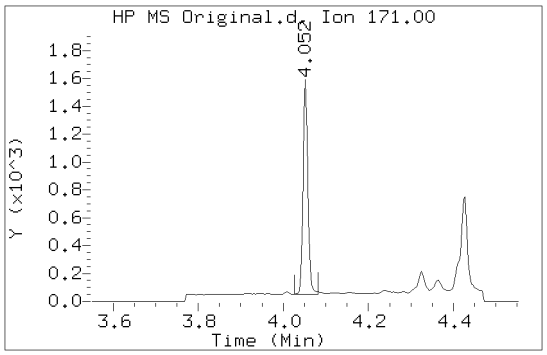
BEFORE

MASS
172
AREA
3629
HEIGHT
4468
22-Jun-2024
16:20
ALSHS
Server



BEFORE

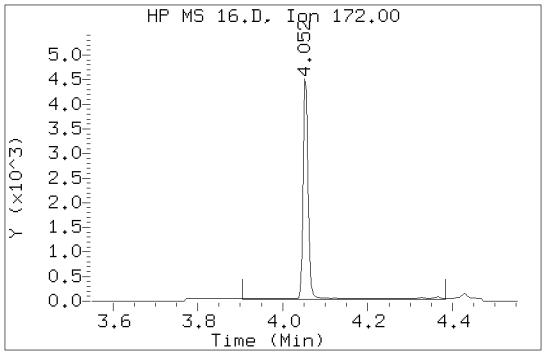
MASS
171
AREA
1229
HEIGHT
1539
22-Jun-2024
16:20
ALSHS
Server



Reason Code:

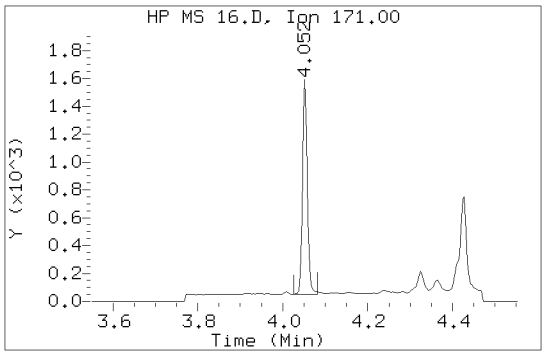
AFTER

MASS
172
AREA
3917
HEIGHT
4472
24-Jun-2024
15:42
ALSHS
Server



AFTER

MASS
171
AREA
1229
HEIGHT
1539
24-Jun-2024
15:42
ALSHS
Server



Data File: \\NAHSTWS005\Target\chem\SV6.i\240622.b\17.D Page 1
Report Date: 24-Jun-2024 15:42

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240622.b\17.D
Lab Smp Id: HS24060747-03
Inj Date : 22-JUN-2024 16:22
Operator : LG Inst ID: SV6.i
Smp Info : HS24060747-03
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240622.b\DXSIM.m
Meth Date : 22-Jun-2024 12:47 SV6.i Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7015

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	2.080	2.080	(1.000)	1045	0.10000	(aM)
* 45 Naphthalene-d8	136	3.063	3.063	(1.000)	3450	0.10000	
$ 33 Nitrobenzene-d5	82	2.483	2.488	(0.810)	702	0.06778	0.06778
* 86 Acenaphthene-d10	164	4.659	4.654	(1.000)	1957	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.052	4.052	(0.870)	2224	0.07434	0.07434(M)
* 126 Phenanthrene-d10	188	6.059	6.054	(1.000)	3731	0.10000	(M)
* 182 Chrysene-d12	240	8.587	8.581	(1.000)	5205	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.624	7.618	(0.888)	8348	0.07873	0.07873(M)
* 198 Perylene-d12	264	10.179	10.174	(1.000)	3915	0.10000	(M)
1 1,4-Dioxane	58	0.816	0.834	(0.392)	576	0.25733	0.2573(M)

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\SV6.i\240622.b\17.D

Date : 22-JUN-2024 16:22

Client ID:

Instrument: SV6.i

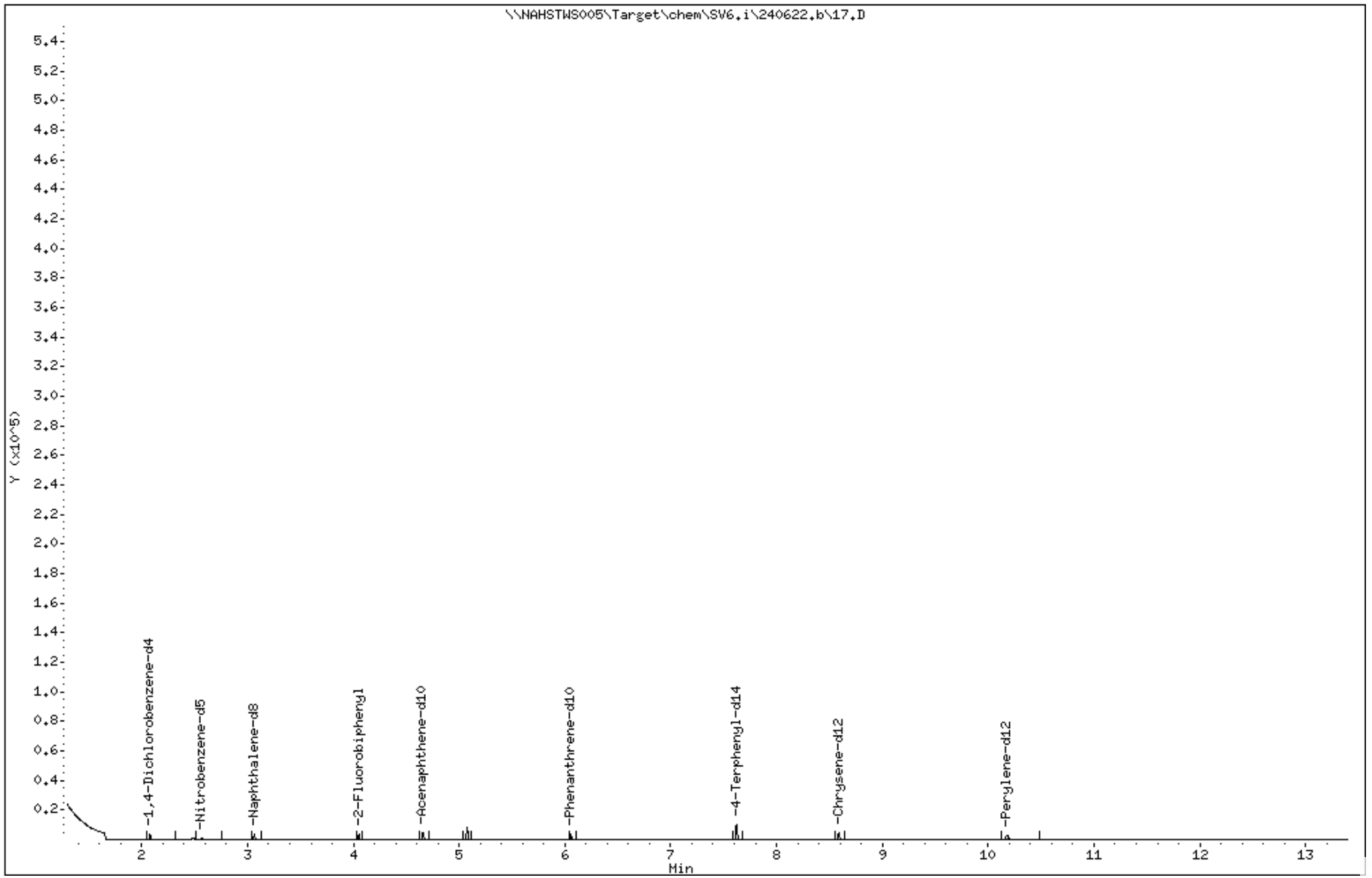
Sample Info: HS24060747-03

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\240622.b\17.D Page 2

Date : 22-JUN-2024 16:22

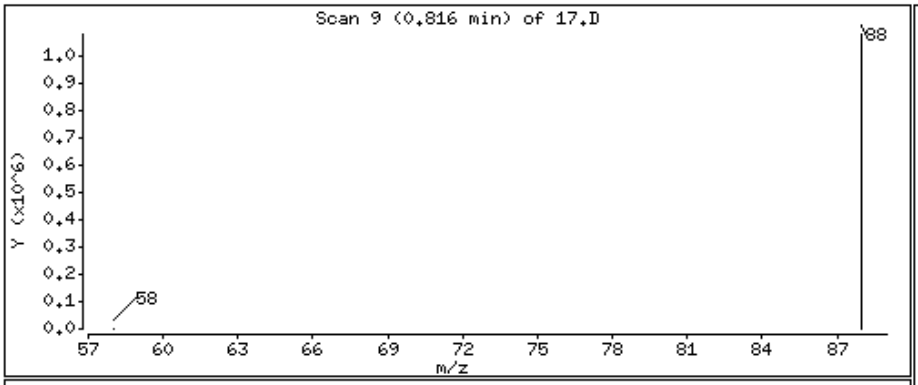
Client ID: Instrument: SV6.i

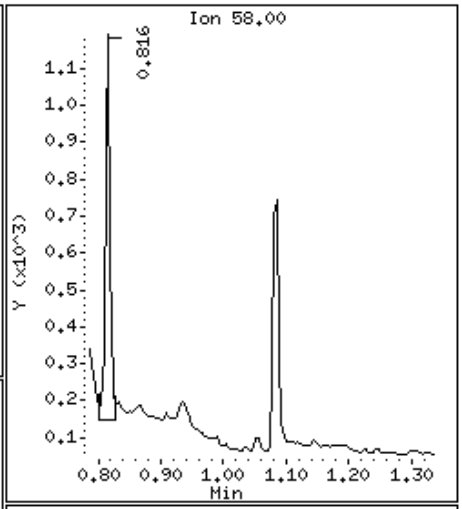
Sample Info: HS24060747-03

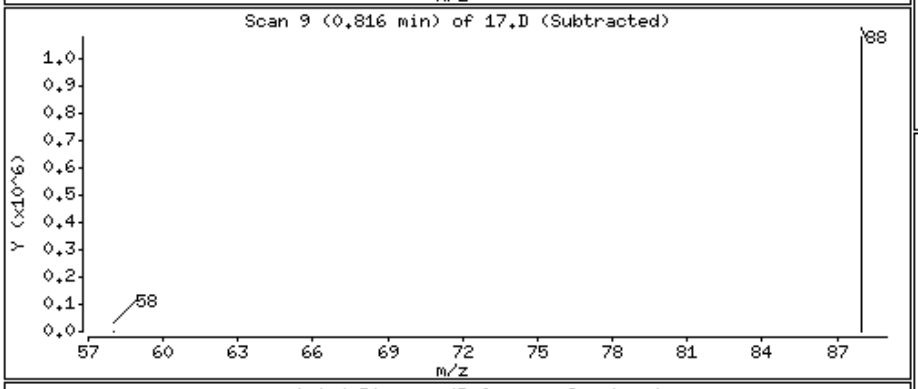
Purge Volume: 1000.0 Operator: LG

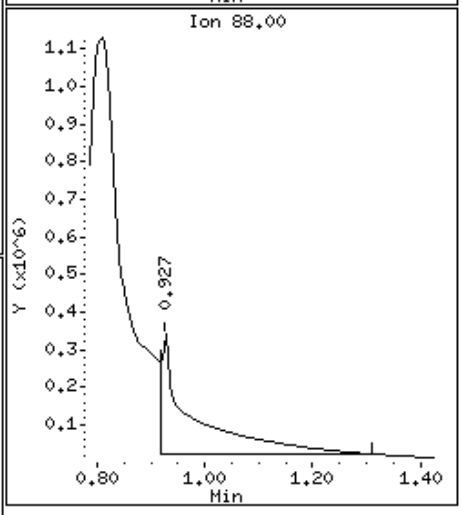
Column phase: RTX-5SIL MS Column diameter: 0.28

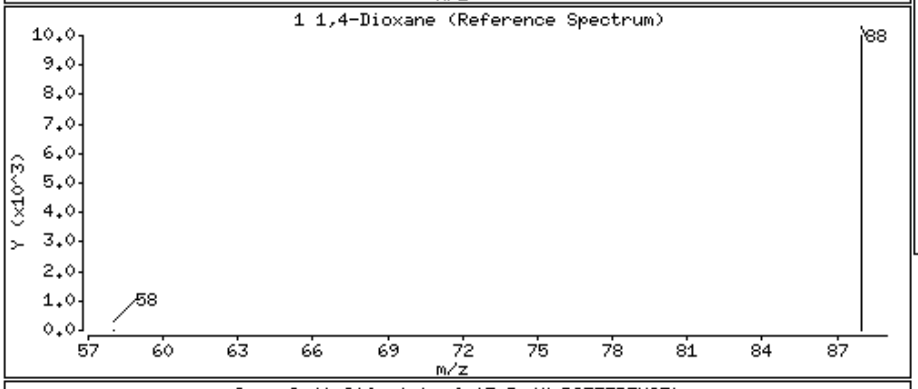
1 1,4-Dioxane Concentration: 0.2573 ug/L

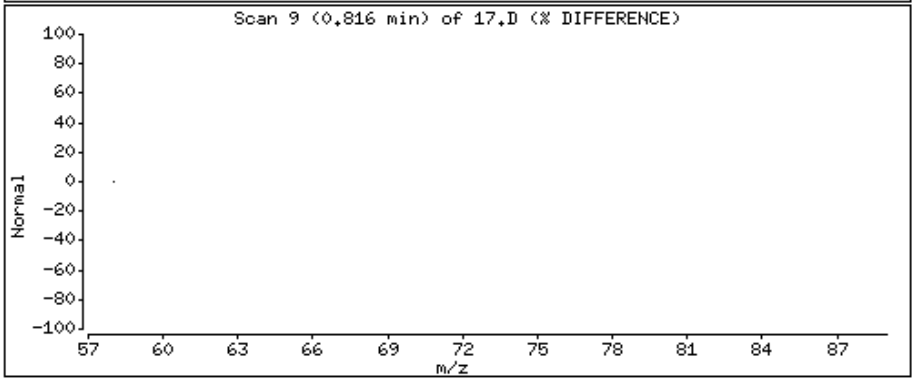












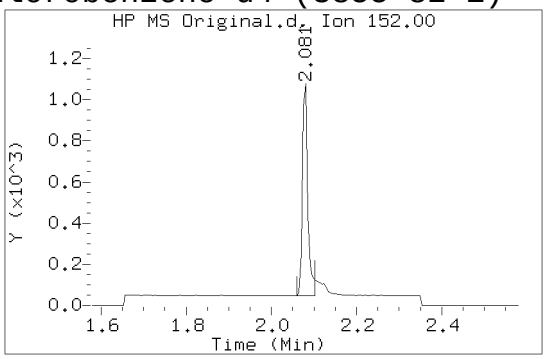
Data File : \\NAHSTWS005\Target\chem\SV6.i\240622.b\17.D
Inj Date : 22-JUN-2024 16:22
InstruID : SV6.i
LabSampID : HS24060747-03

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

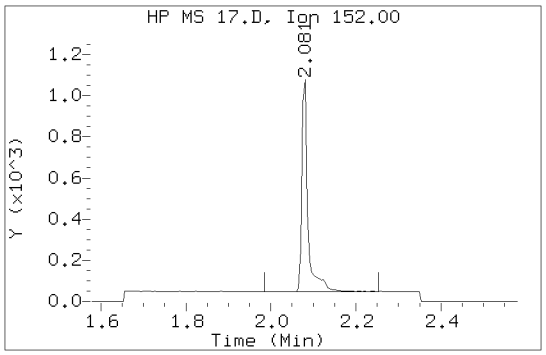
BEFORE

MASS
152
AREA
928
HEIGHT
1031
22-Jun-2024
16:36
ALSHS
Server



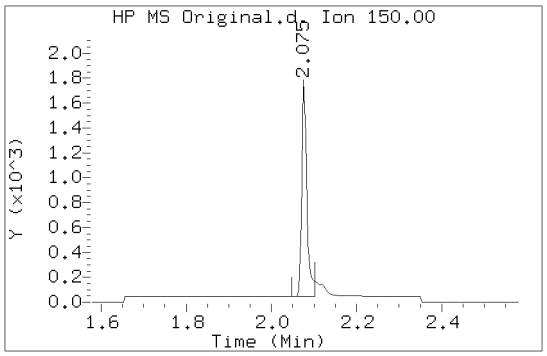
AFTER

MASS
152
AREA
1045
HEIGHT
1030
24-Jun-2024
15:42
ALSHS
Server



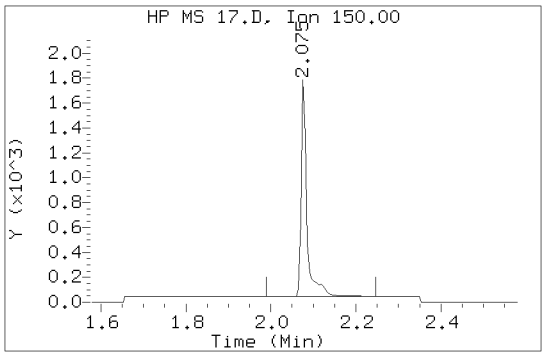
BEFORE

MASS
150
AREA
1472
HEIGHT
1739
22-Jun-2024
16:36
ALSHS
Server



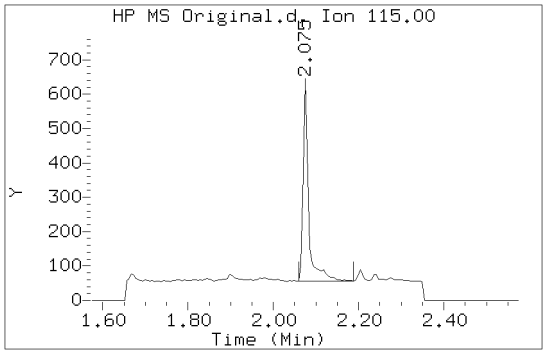
AFTER

MASS
150
AREA
1649
HEIGHT
1739
24-Jun-2024
15:42
ALSHS
Server



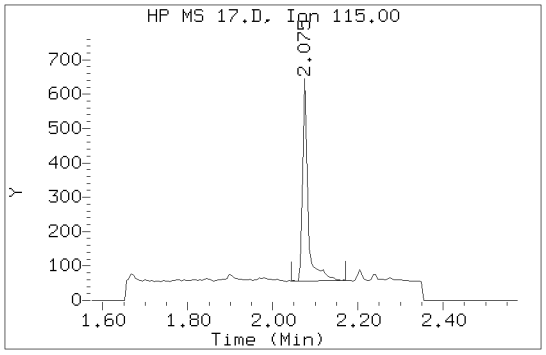
BEFORE

MASS
115
AREA
535
HEIGHT
589
22-Jun-2024
16:36
ALSHS
Server



AFTER

MASS
115
AREA
526
HEIGHT
588
24-Jun-2024
15:42
ALSHS
Server

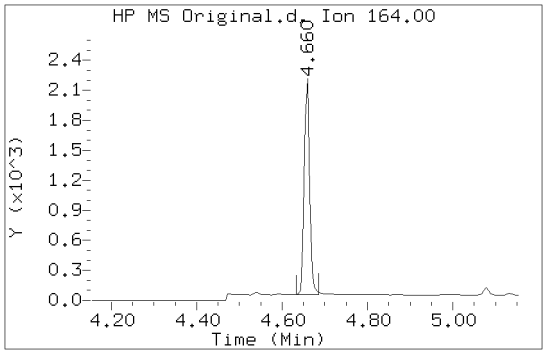


Acenaphthene-d10 (15067-26-2)

Reason Code:

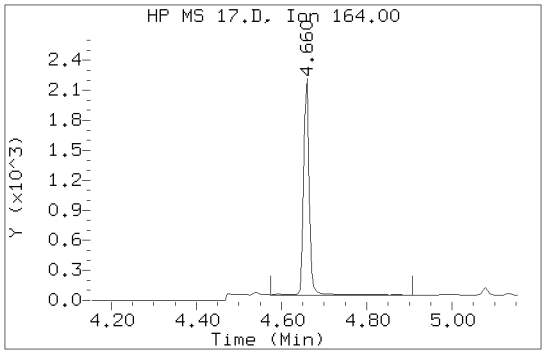
BEFORE

MASS
164
AREA
1868
HEIGHT
2156
22-Jun-2024
16:36
ALSHS
Server



AFTER

MASS
164
AREA
1957
HEIGHT
2162
24-Jun-2024
15:42
ALSHS
Server

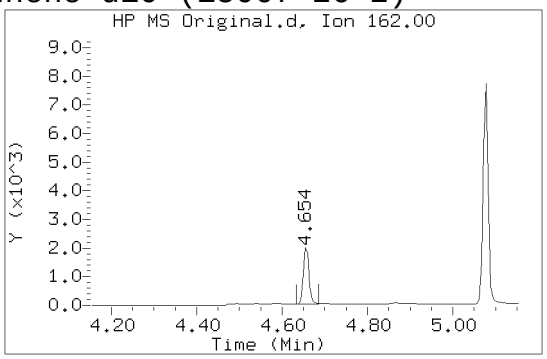


Data File : \\NAHSTWS005\Target\chem\SV6.i\240622.b\17.D
Inj Date : 22-JUN-2024 16:22
InstruID : SV6.i
LabSampID : HS24060747-03

Acenaphthene-d10 (15067-26-2)

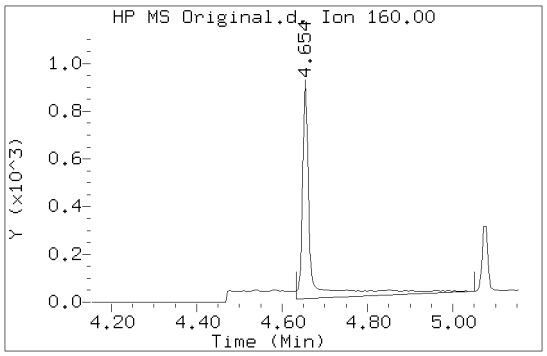
BEFORE

MASS
162
AREA
1759
HEIGHT
1955
22-Jun-2024
16:36
ALSHS
Server



BEFORE

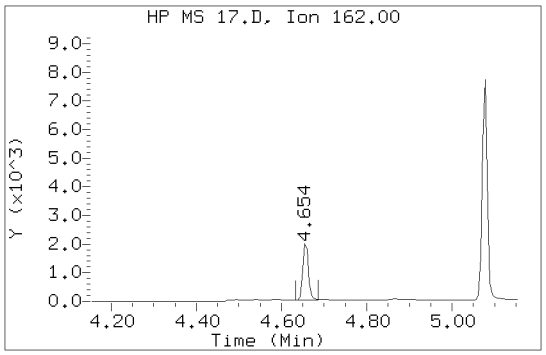
MASS
160
AREA
1205
HEIGHT
916
22-Jun-2024
16:36
ALSHS
Server



Reason Code:

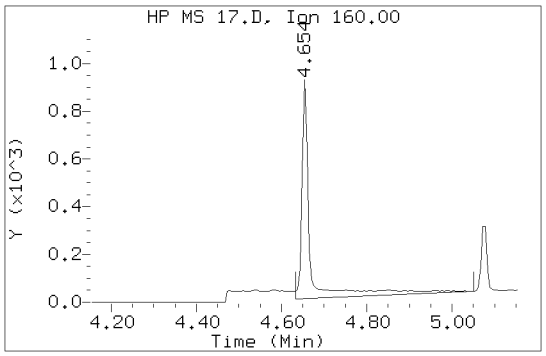
AFTER

MASS
162
AREA
1759
HEIGHT
1955
24-Jun-2024
15:42
ALSHS
Server



AFTER

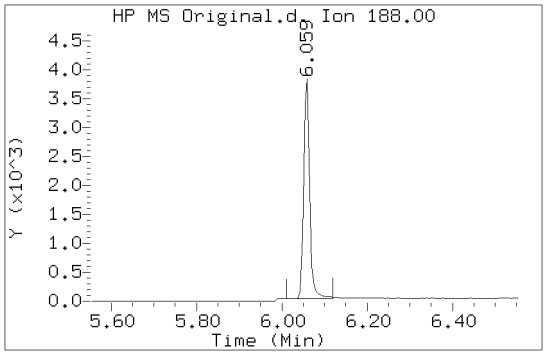
MASS
160
AREA
1205
HEIGHT
916
24-Jun-2024
15:42
ALSHS
Server



Phenanthrene-d10 (1517-22-2)

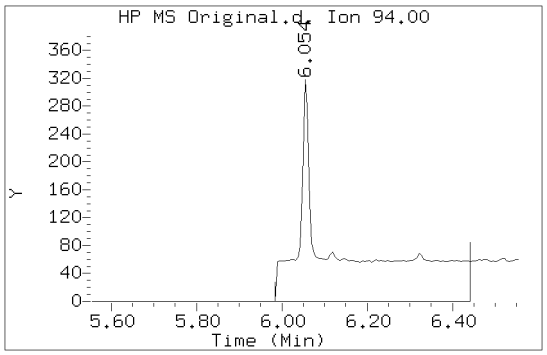
BEFORE

MASS
188
AREA
3689
HEIGHT
3794
22-Jun-2024
16:36
ALSHS
Server



BEFORE

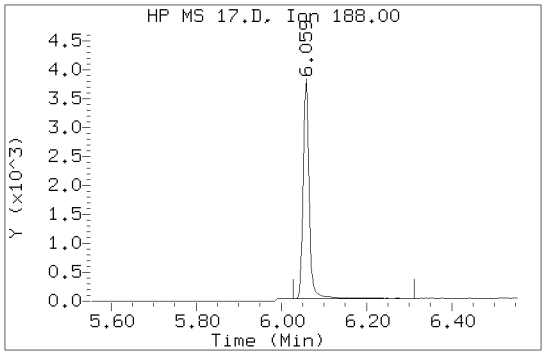
MASS
94
AREA
1861
HEIGHT
318
22-Jun-2024
16:36
ALSHS
Server



Reason Code:

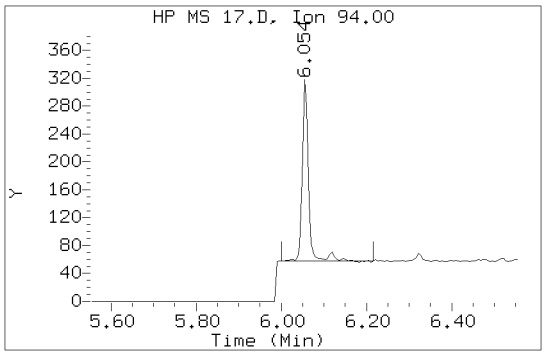
AFTER

MASS
188
AREA
3731
HEIGHT
3793
24-Jun-2024
15:42
ALSHS
Server



AFTER

MASS
94
AREA
261
HEIGHT
260
24-Jun-2024
15:42
ALSHS
Server



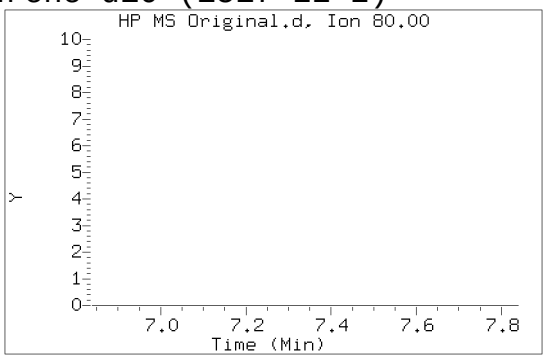
Data File : \\NAHSTWS005\Target\chem\SV6.i\240622.b\17.D
Inj Date : 22-JUN-2024 16:22
InstruID : SV6.i
LabSampID : HS24060747-03

Phenanthrene-d10 (1517-22-2)

Reason Code:

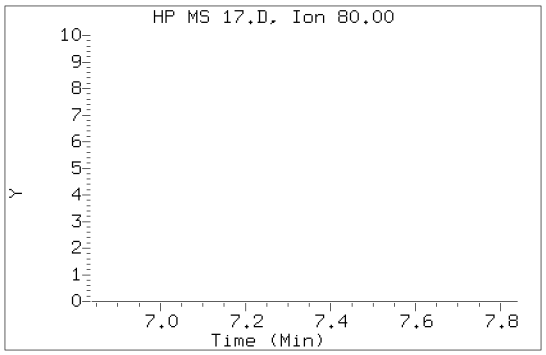
BEFORE

MASS
80
AREA
0
HEIGHT
0
22-Jun-2024
16:36
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
24-Jun-2024
15:42
ALSHS
Server

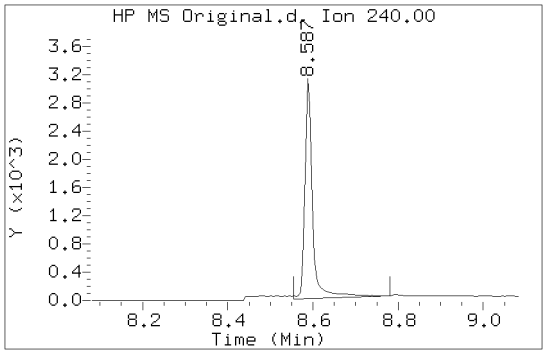


Chrysene-d12 (1719-03-5)

Reason Code:

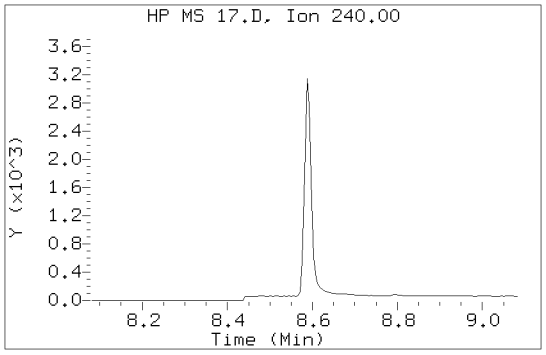
BEFORE

MASS
240
AREA
3880
HEIGHT
3119
22-Jun-2024
16:36
ALSHS
Server



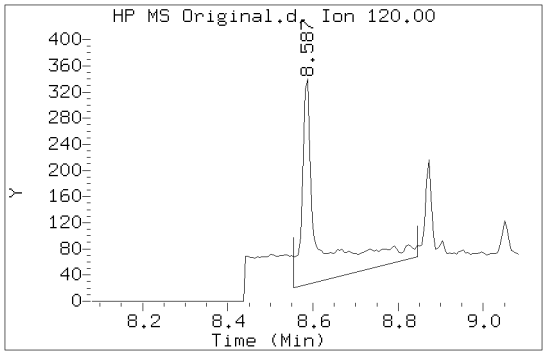
AFTER

MASS
240
AREA
5205
HEIGHT
3135
24-Jun-2024
15:42
ALSHS
Server



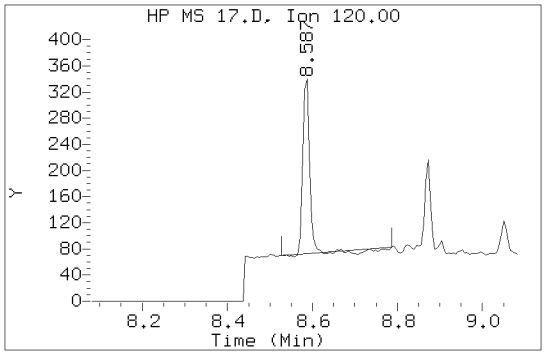
BEFORE

MASS
120
AREA
860
HEIGHT
313
22-Jun-2024
16:36
ALSHS
Server



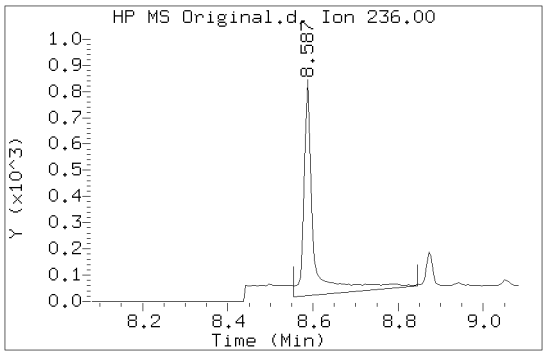
AFTER

MASS
120
AREA
264
HEIGHT
267
24-Jun-2024
15:42
ALSHS
Server



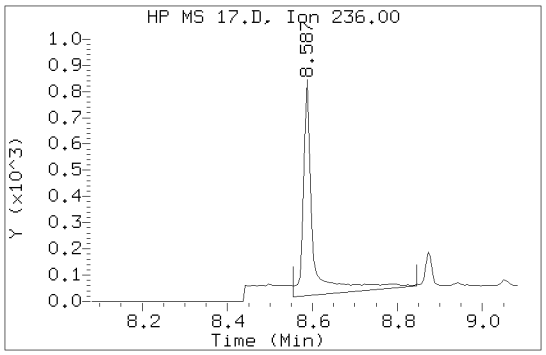
BEFORE

MASS
236
AREA
1286
HEIGHT
823
22-Jun-2024
16:36
ALSHS
Server



AFTER

MASS
236
AREA
1286
HEIGHT
823
24-Jun-2024
15:42
ALSHS
Server



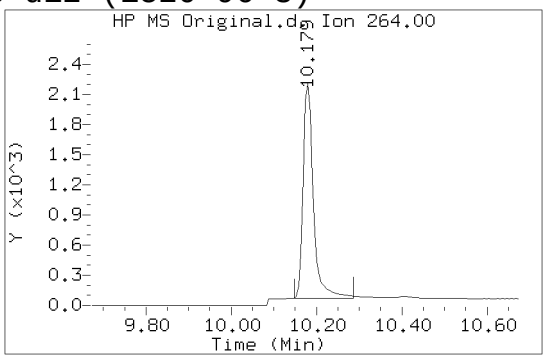
Data File : \\NAHSTWS005\Target\chem\SV6.i\240622.b\17.D
Inj Date : 22-JUN-2024 16:22
InstruID : SV6.i
LabSampID : HS24060747-03

Perylene-d12 (1520-96-3)

Reason Code:

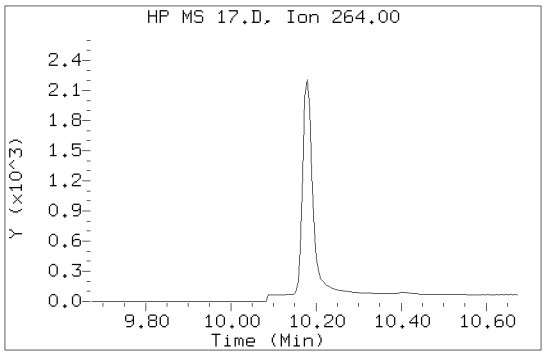
BEFORE

MASS
264
AREA
3533
HEIGHT
2134
22-Jun-2024
16:36
ALSHS
Server



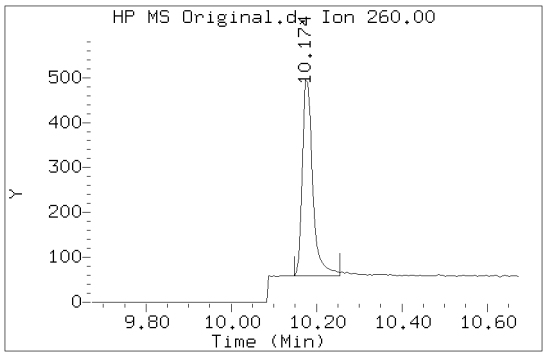
AFTER

MASS
264
AREA
3915
HEIGHT
2145
24-Jun-2024
15:42
ALSHS
Server



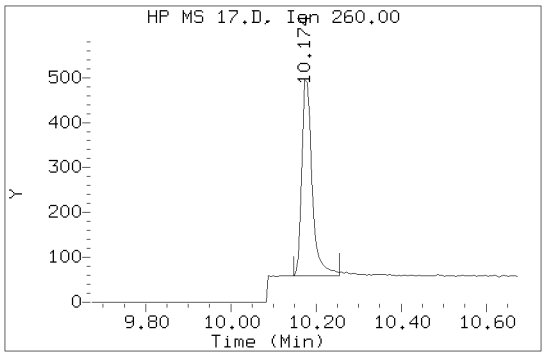
BEFORE

MASS
260
AREA
733
HEIGHT
436
22-Jun-2024
16:36
ALSHS
Server



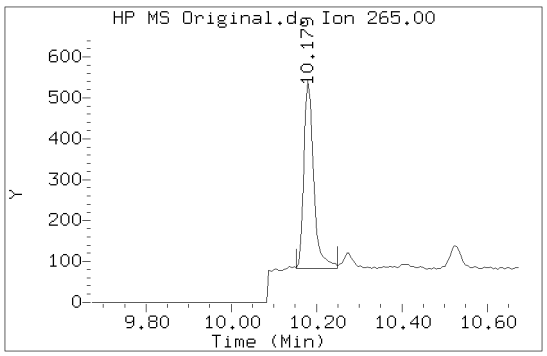
AFTER

MASS
260
AREA
733
HEIGHT
436
24-Jun-2024
15:42
ALSHS
Server



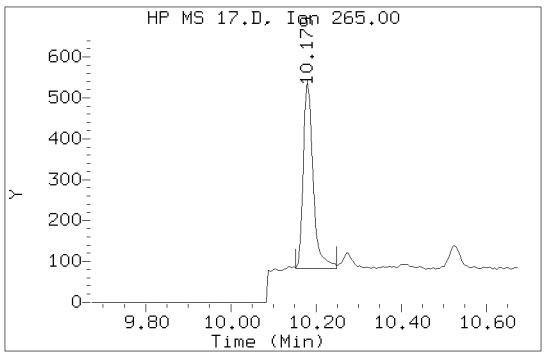
BEFORE

MASS
265
AREA
728
HEIGHT
459
22-Jun-2024
16:36
ALSHS
Server



AFTER

MASS
265
AREA
728
HEIGHT
459
24-Jun-2024
15:42
ALSHS
Server

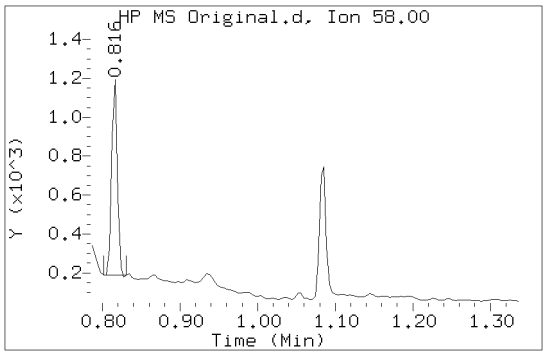


1,4-Dioxane ()

Reason Code:

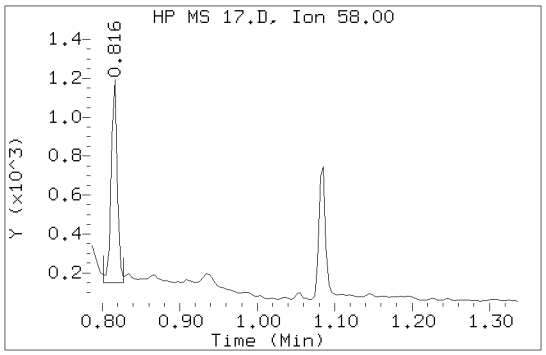
BEFORE

MASS
58
AREA
505
HEIGHT
1004
22-Jun-2024
16:36
ALSHS
Server



AFTER

MASS
58
AREA
576
HEIGHT
1044
24-Jun-2024
15:42
ALSHS
Server



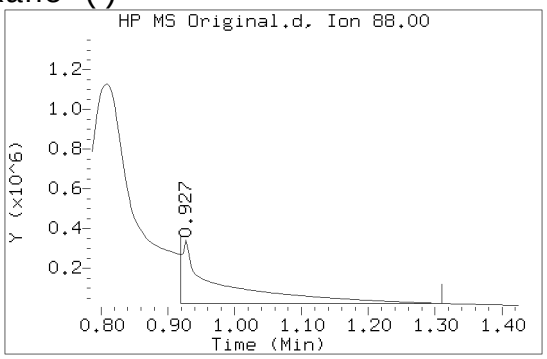
Data File : \\NAHSTWS005\Target\chem\SV6.i\240622.b\17.D
Inj Date : 22-JUN-2024 16:22
InstruID : SV6.i
LabSampID : HS24060747-03

1,4-Dioxane ()

Reason Code:

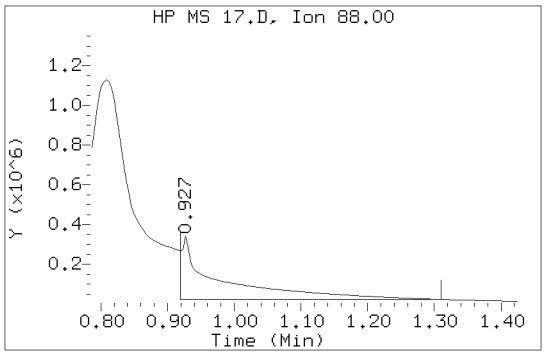
BEFORE

MASS
88
AREA
1241737
HEIGHT
320656
22-Jun-2024
16:36
ALSHS
Server



AFTER

MASS
88
AREA
1241737
HEIGHT
320656
24-Jun-2024
15:42
ALSHS
Server

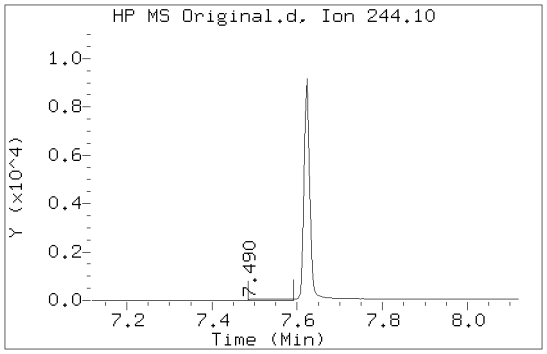


4-Terphenyl-d14 (1718-51-0)

Reason Code:

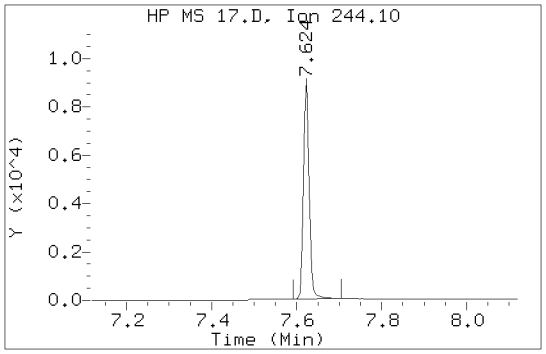
BEFORE

MASS
244.1
AREA
364
HEIGHT
61
22-Jun-2024
16:36
ALSHS
Server



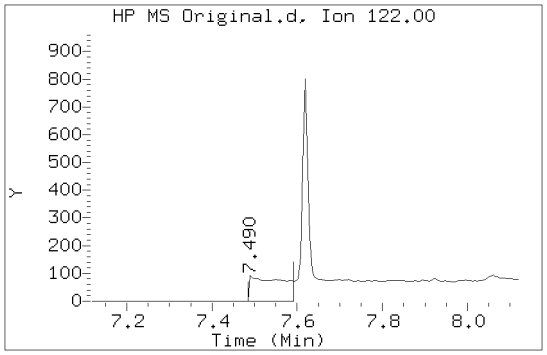
AFTER

MASS
244.1
AREA
8348
HEIGHT
9108
24-Jun-2024
15:42
ALSHS
Server



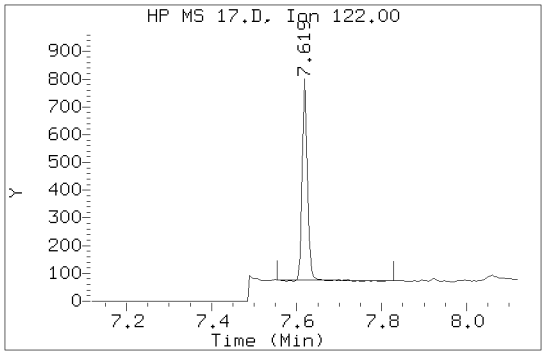
BEFORE

MASS
122
AREA
495
HEIGHT
92
22-Jun-2024
16:36
ALSHS
Server



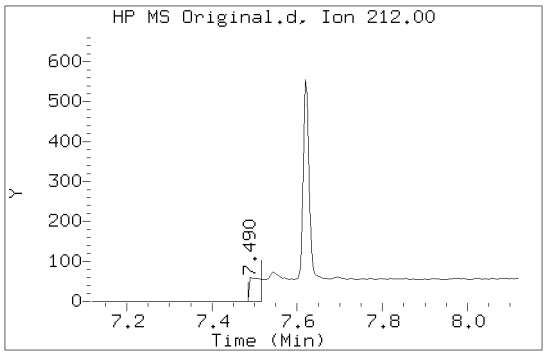
AFTER

MASS
122
AREA
614
HEIGHT
725
24-Jun-2024
15:42
ALSHS
Server



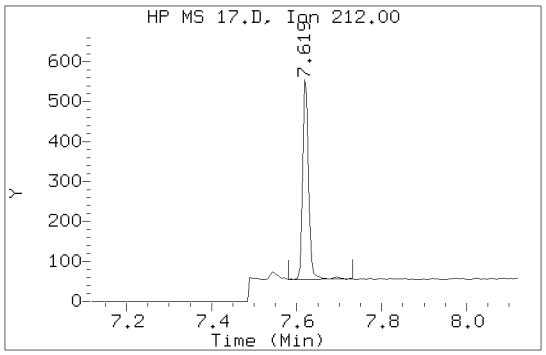
BEFORE

MASS
212
AREA
110
HEIGHT
60
22-Jun-2024
16:36
ALSHS
Server



AFTER

MASS
212
AREA
480
HEIGHT
499
24-Jun-2024
15:42
ALSHS
Server



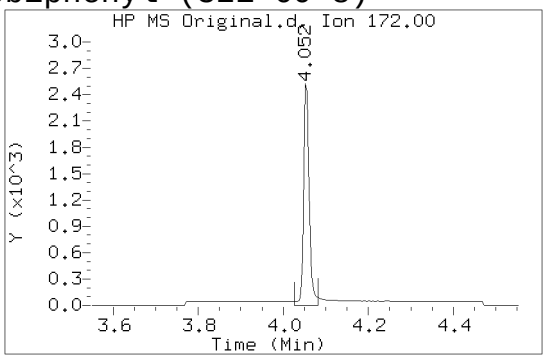
Data File : \\NAHSTWS005\Target\chem\SV6.i\240622.b\17.D
Inj Date : 22-JUN-2024 16:22
InstruID : SV6.i
LabSampID : HS24060747-03

2-Fluorobiphenyl (321-60-8)

Reason Code:

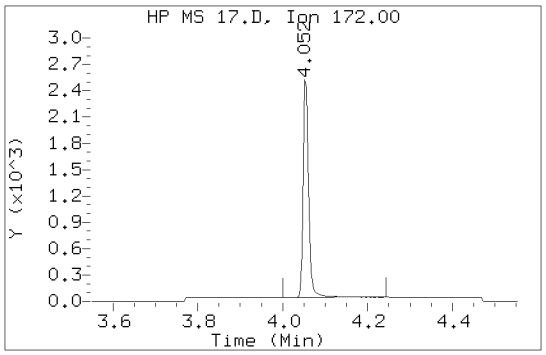
BEFORE

MASS
172
AREA
2347
HEIGHT
2526
22-Jun-2024
16:36
ALSHS
Server



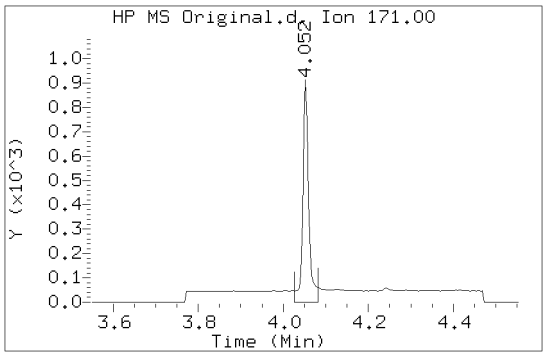
AFTER

MASS
172
AREA
2224
HEIGHT
2478
24-Jun-2024
15:42
ALSHS
Server



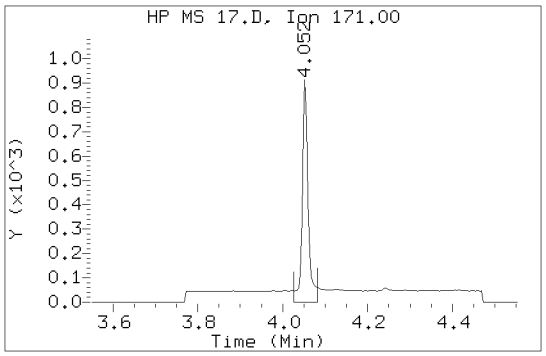
BEFORE

MASS
171
AREA
891
HEIGHT
913
22-Jun-2024
16:36
ALSHS
Server



AFTER

MASS
171
AREA
891
HEIGHT
913
24-Jun-2024
15:42
ALSHS
Server



Data File: \\NAHSTWS005\Target\chem\SV6.i\240622.b\18.D Page 1
Report Date: 24-Jun-2024 15:25

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240622.b\18.D
Lab Smp Id: HS24060747-04
Inj Date : 22-JUN-2024 16:39
Operator : LG Inst ID: SV6.i
Smp Info : HS24060747-04
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240622.b\DXSIM.m
Meth Date : 22-Jun-2024 12:47 SV6.i Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7015

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	2.085	2.080	(1.000)	1838	0.10000	(aQ)
* 45 Naphthalene-d8	136	3.067	3.063	(1.000)	6251	0.10000	
$ 33 Nitrobenzene-d5	82	2.488	2.488	(0.811)	1305	0.06954	0.06954
* 86 Acenaphthene-d10	164	4.659	4.654	(1.000)	3563	0.10000	
$ 69 2-Fluorobiphenyl	172	4.052	4.052	(0.870)	3795	0.06968	0.06968(M)
* 126 Phenanthrene-d10	188	6.059	6.054	(1.000)	7013	0.10000	(M)
* 182 Chrysene-d12	240	8.587	8.581	(1.000)	6920	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.624	7.618	(0.888)	10770	0.07640	0.07640(M)
* 198 Perylene-d12	264	10.179	10.174	(1.000)	7362	0.10000	
1 1,4-Dioxane	58	0.864	0.834	(0.414)	14637	3.71791	3.718(AQH)

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\SV6.i\240622.b\18.D

Date : 22-JUN-2024 16:39

Client ID:

Instrument: SV6.i

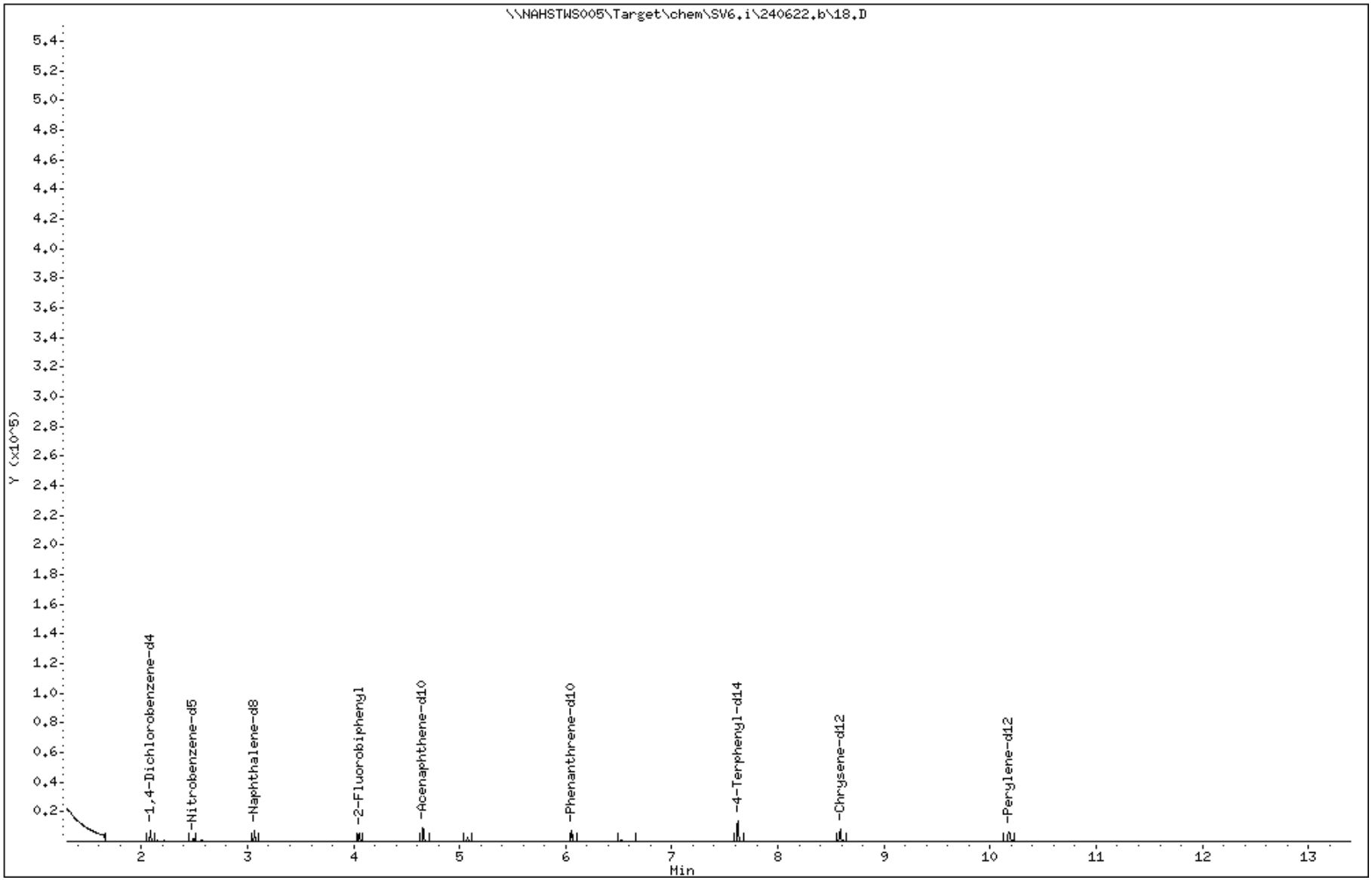
Sample Info: HS24060747-04

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\240622.b\18.D

Date : 22-JUN-2024 16:39

Client ID:

Instrument: SV6.i

Sample Info: HS24060747-04

Purge Volume: 1000.0

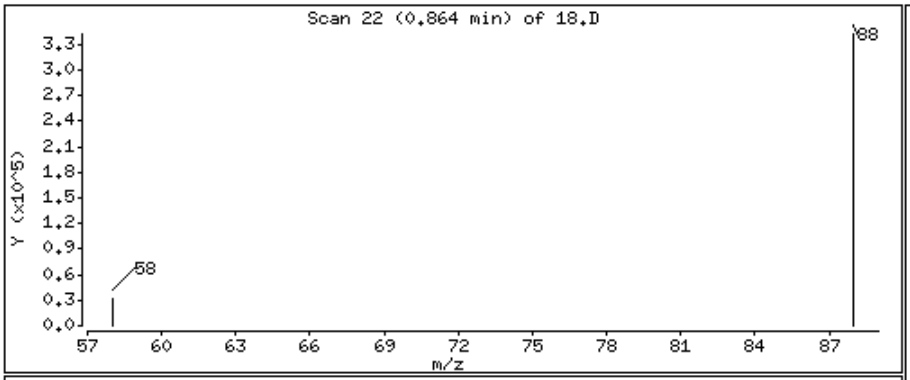
Operator: LG

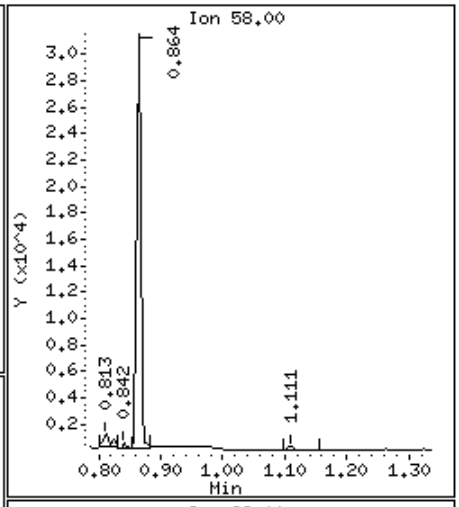
Column phase: RTX-5SIL MS

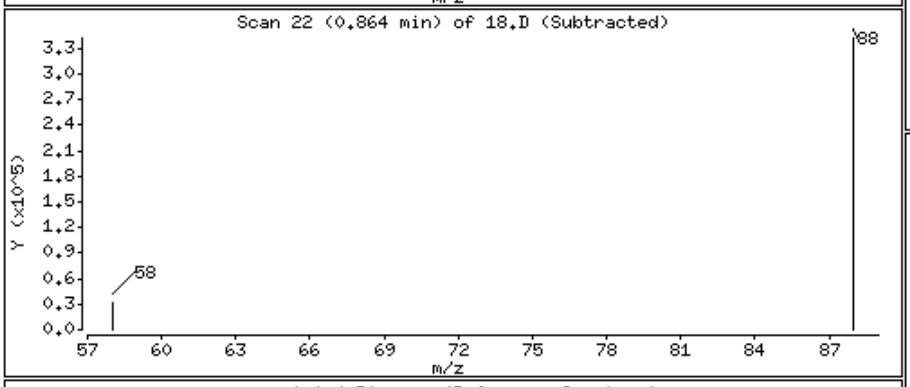
Column diameter: 0.28

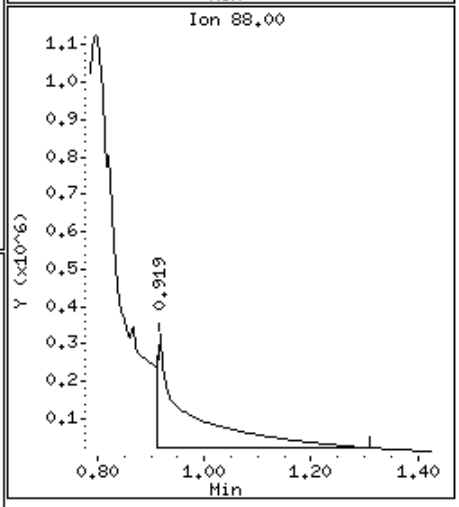
1 1,4-Dioxane

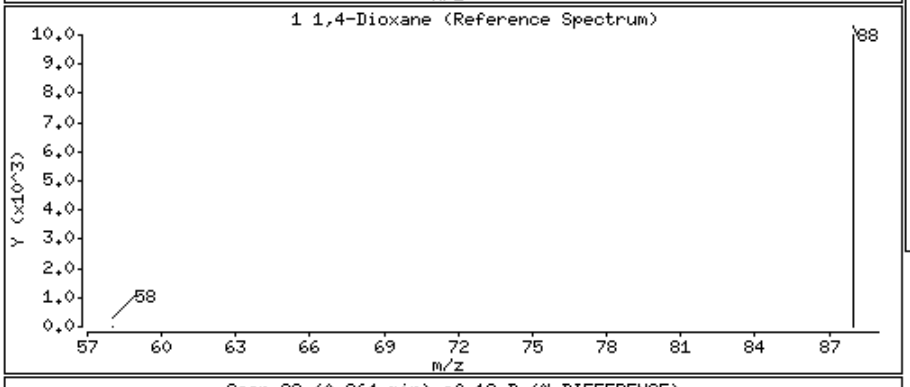
Concentration: 3.718 ug/L

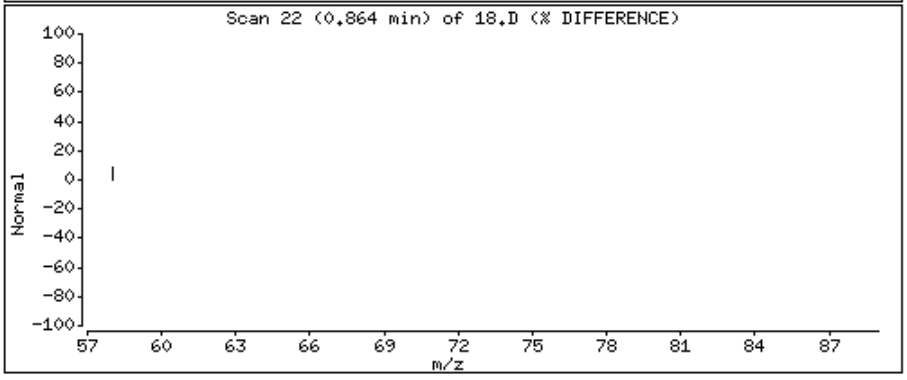












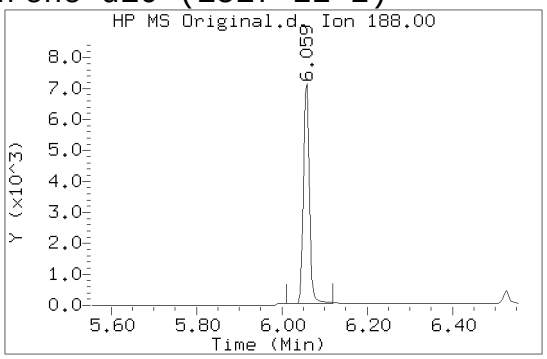
Data File : \\NAHSTWS005\Target\chem\SV6.i\240622.b\18.D
Inj Date : 22-JUN-2024 16:39
InstruID : SV6.i
LabSampID : HS24060747-04

Phenanthrene-d10 (1517-22-2)

Reason Code:

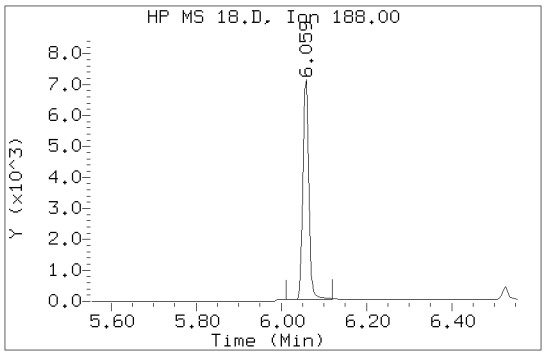
BEFORE

MASS
188
AREA
7013
HEIGHT
7102
22-Jun-2024
16:56
ALSHS
Server



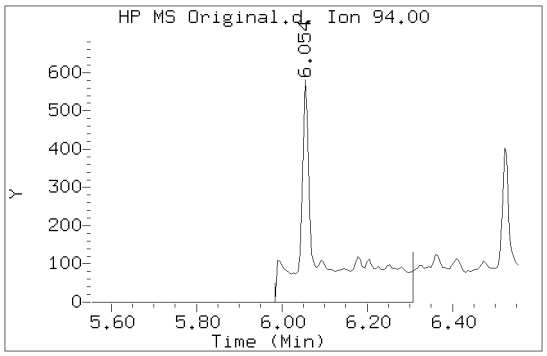
AFTER

MASS
188
AREA
7013
HEIGHT
7102
24-Jun-2024
15:25
ALSHS
Server



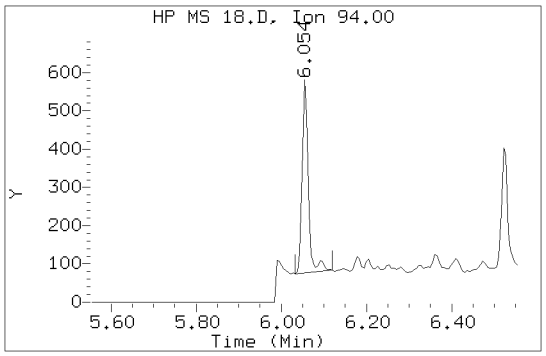
BEFORE

MASS
94
AREA
2181
HEIGHT
581
22-Jun-2024
16:56
ALSHS
Server



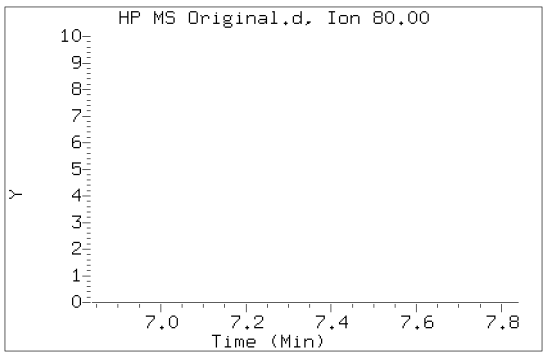
AFTER

MASS
94
AREA
501
HEIGHT
504
24-Jun-2024
15:25
ALSHS
Server



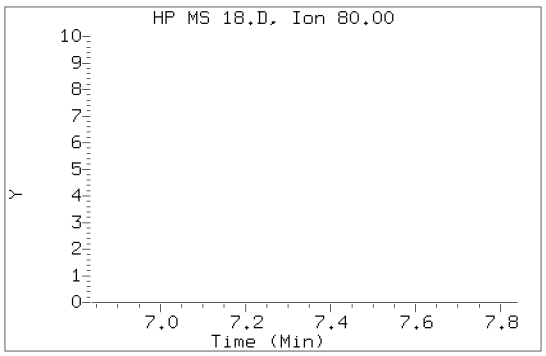
BEFORE

MASS
80
AREA
0
HEIGHT
0
22-Jun-2024
16:56
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
24-Jun-2024
15:25
ALSHS
Server

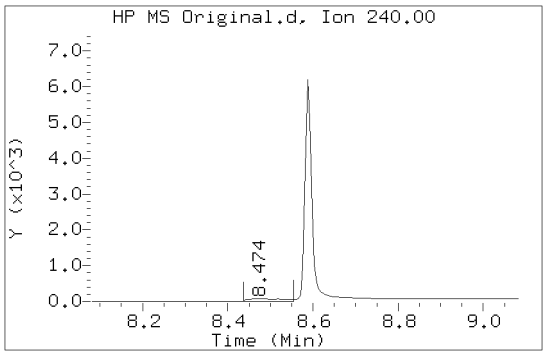


Chrysene-d12 (1719-03-5)

Reason Code:

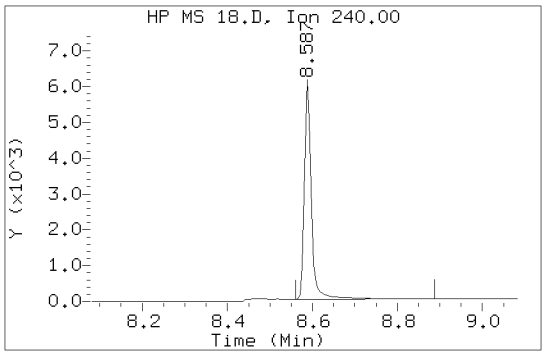
BEFORE

MASS
240
AREA
440
HEIGHT
66
22-Jun-2024
16:56
ALSHS
Server



AFTER

MASS
240
AREA
6920
HEIGHT
6133
24-Jun-2024
15:25
ALSHS
Server

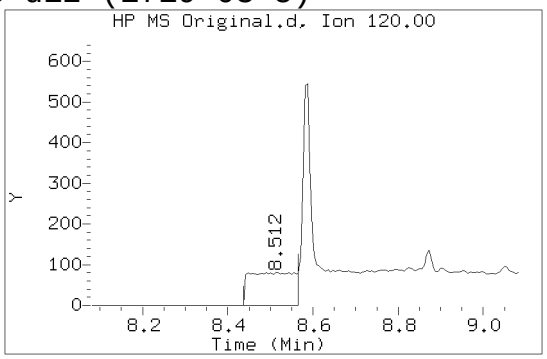


Data File : \\NAHSTWS005\Target\chem\SV6.i\240622.b\18.D
Inj Date : 22-JUN-2024 16:39
InstruID : SV6.i
LabSampID : HS24060747-04

Chrysene-d12 (1719-03-5)

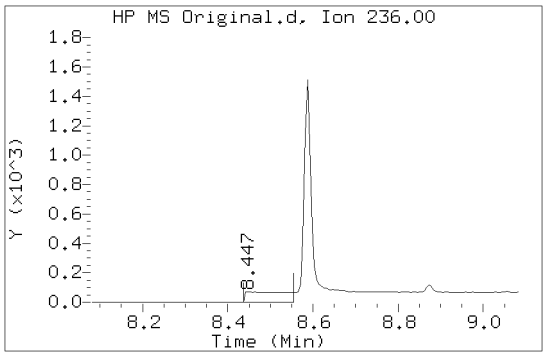
BEFORE

MASS
120
AREA
607
HEIGHT
81
22-Jun-2024
16:56
ALSHS
Server



BEFORE

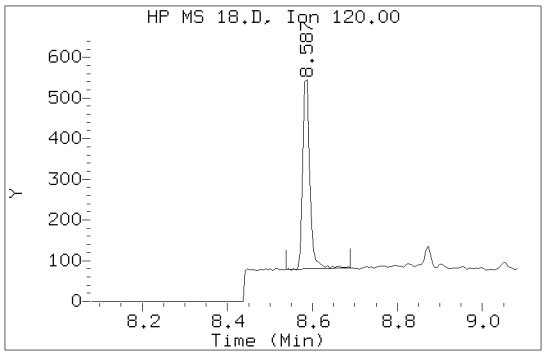
MASS
236
AREA
471
HEIGHT
70
22-Jun-2024
16:56
ALSHS
Server



Reason Code:

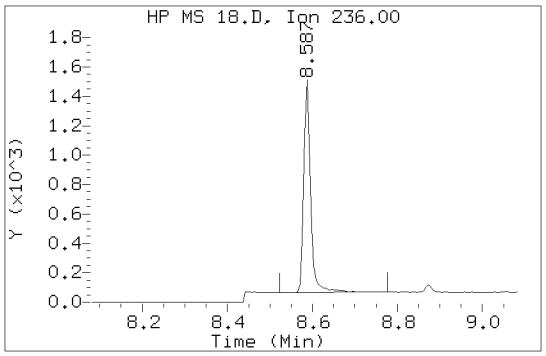
AFTER

MASS
120
AREA
536
HEIGHT
465
24-Jun-2024
15:25
ALSHS
Server



AFTER

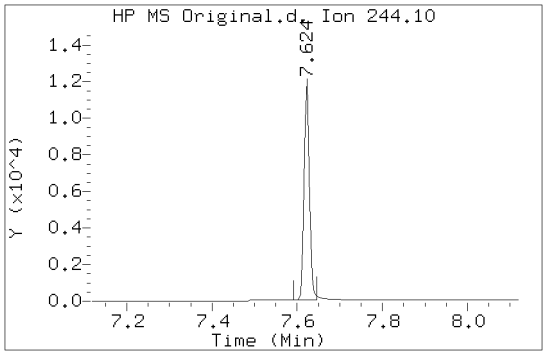
MASS
236
AREA
1604
HEIGHT
1445
24-Jun-2024
15:25
ALSHS
Server



4-Terphenyl-d14 (1718-51-0)

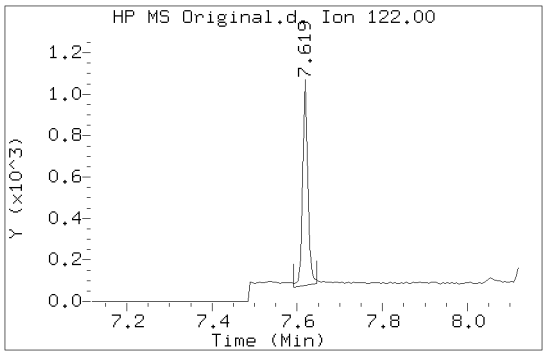
BEFORE

MASS
244.1
AREA
10446
HEIGHT
12092
22-Jun-2024
16:56
ALSHS
Server



BEFORE

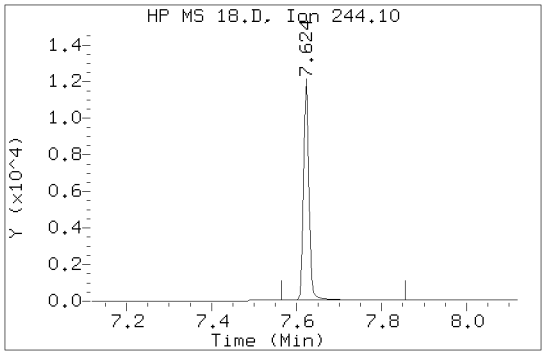
MASS
122
AREA
851
HEIGHT
992
22-Jun-2024
16:56
ALSHS
Server



Reason Code:

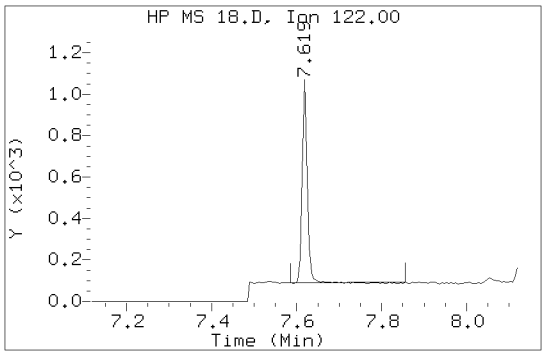
AFTER

MASS
244.1
AREA
10770
HEIGHT
12093
24-Jun-2024
15:25
ALSHS
Server



AFTER

MASS
122
AREA
802
HEIGHT
980
24-Jun-2024
15:25
ALSHS
Server



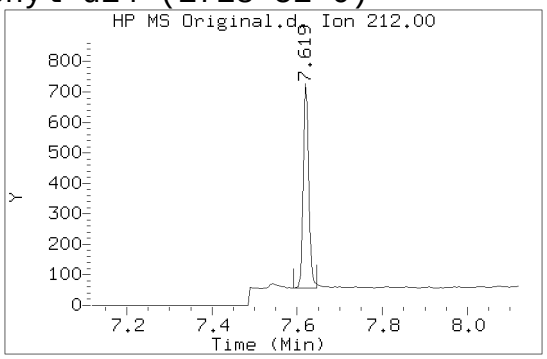
Data File : \\NAHSTWS005\Target\chem\SV6.i\240622.b\18.D
Inj Date : 22-JUN-2024 16:39
InstruID : SV6.i
LabSampID : HS24060747-04

4-Terphenyl-d14 (1718-51-0)

Reason Code:

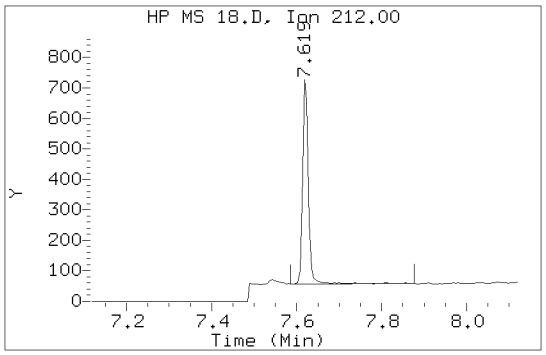
BEFORE

MASS
212
AREA
602
HEIGHT
670
22-Jun-2024
16:56
ALSHS
Server



AFTER

MASS
212
AREA
622
HEIGHT
670
24-Jun-2024
15:25
ALSHS
Server

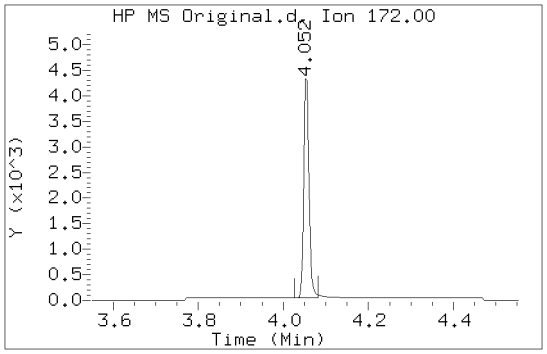


2-Fluorobiphenyl (321-60-8)

Reason Code:

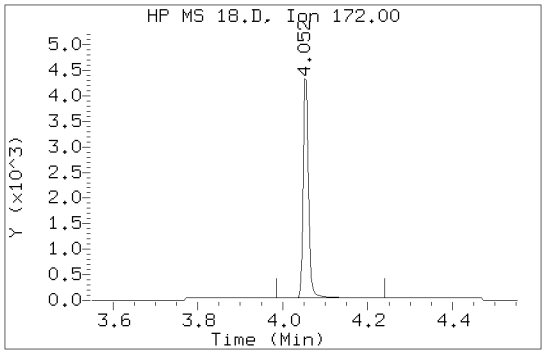
BEFORE

MASS
172
AREA
3733
HEIGHT
4289
22-Jun-2024
16:56
ALSHS
Server



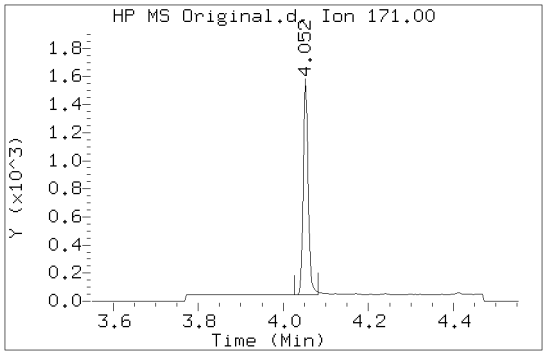
AFTER

MASS
172
AREA
3795
HEIGHT
4287
24-Jun-2024
15:25
ALSHS
Server



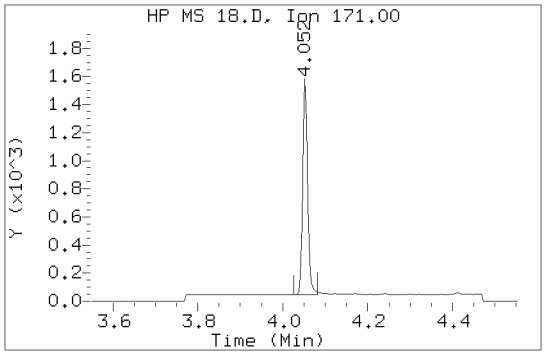
BEFORE

MASS
171
AREA
1250
HEIGHT
1535
22-Jun-2024
16:56
ALSHS
Server



AFTER

MASS
171
AREA
1250
HEIGHT
1535
24-Jun-2024
15:25
ALSHS
Server



Data File: \\NAHSTWS005\Target\chem\SV6.i\240622.b\19.D Page 1
Report Date: 24-Jun-2024 15:31

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240622.b\19.D
Lab Smp Id: HS24060747-05
Inj Date : 22-JUN-2024 16:57
Operator : LG Inst ID: SV6.i
Smp Info : HS24060747-05
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240622.b\DXSIM.m
Meth Date : 22-Jun-2024 12:47 SV6.i Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7015

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

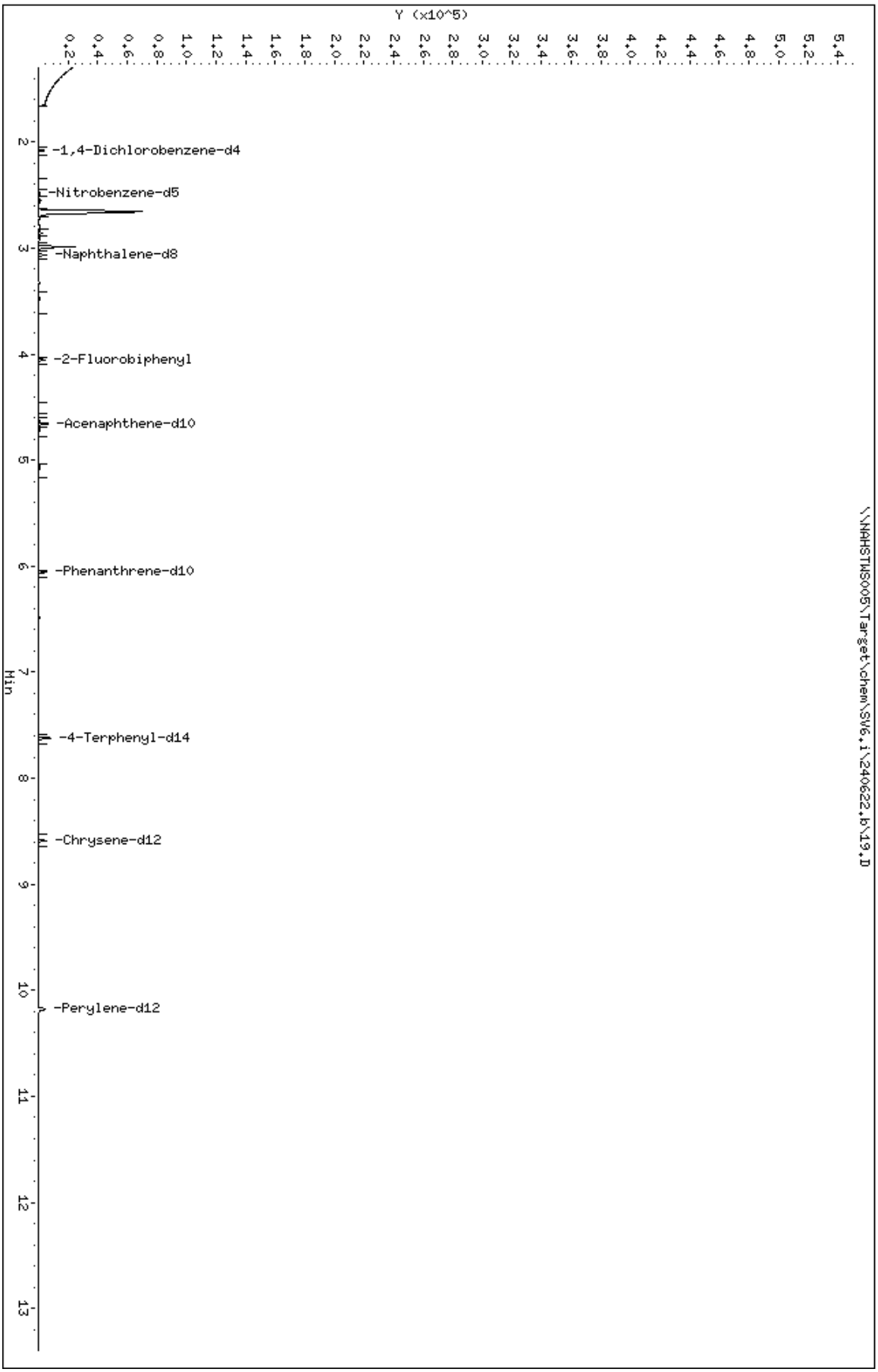
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	2.080	2.080	(1.000)	1333	0.10000	(aM)
* 45 Naphthalene-d8	136	3.063	3.063	(1.000)	4280	0.10000	(H)
$ 33 Nitrobenzene-d5	82	2.488	2.488	(0.812)	957	0.07448	0.07448(H)
* 86 Acenaphthene-d10	164	4.659	4.654	(1.000)	2434	0.10000	
$ 69 2-Fluorobiphenyl	172	4.056	4.052	(0.870)	2566	0.06896	0.06896(M)
* 126 Phenanthrene-d10	188	6.059	6.054	(1.000)	4778	0.10000	(M)
* 182 Chrysene-d12	240	8.587	8.581	(1.000)	4592	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.624	7.618	(0.888)	6462	0.06908	0.06908(M)
* 198 Perylene-d12	264	10.179	10.174	(1.000)	4798	0.10000	(M)
1 1,4-Dioxane	58	0.834	0.834	(0.401)	361512	126.615	126.6(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.

H - Operator selected an alternate compound hit.



Data File: \\NAHSTWS005\Target\chem\SV6.i\240622.b\19.D
Date : 22-JUN-2024 16:57
Client ID:
Sample Info: HS24060747-05
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SV6.i
Operator: LG
Column diameter: 0.28

Data File: \\NAHSTWS005\Target\chem\SV6.i\240622.b\19.D

Date : 22-JUN-2024 16:57

Client ID:

Instrument: SV6.i

Sample Info: HS24060747-05

Purge Volume: 1000.0

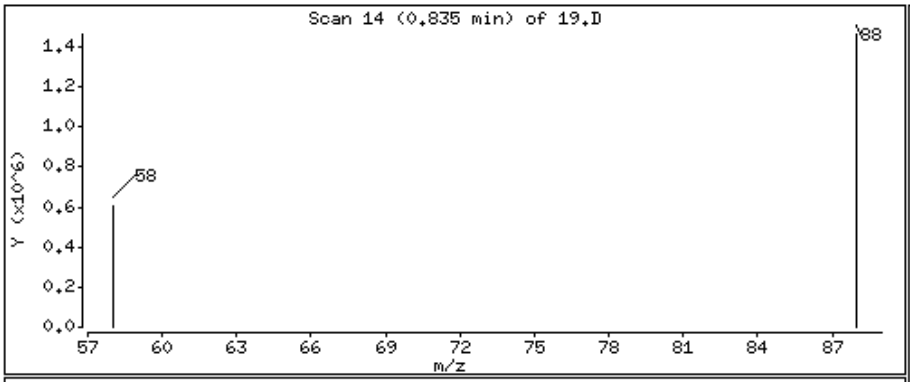
Operator: LG

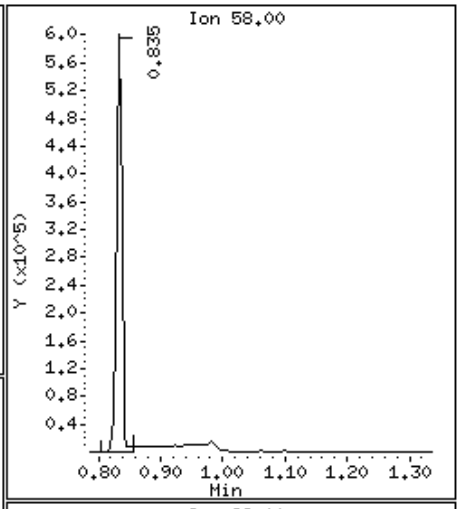
Column phase: RTX-5SIL MS

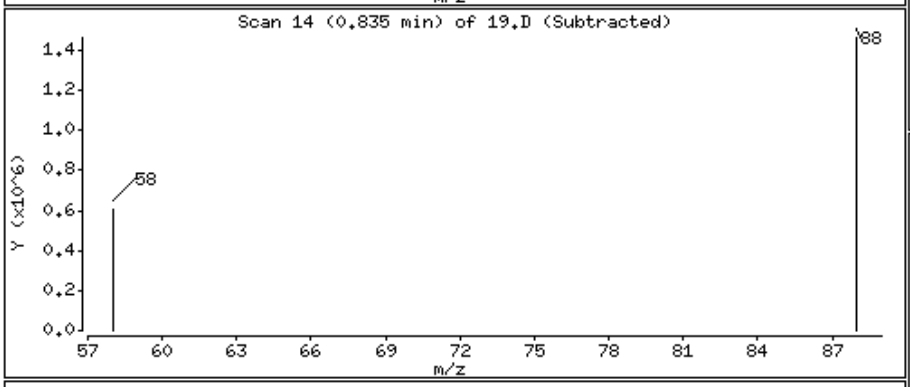
Column diameter: 0.28

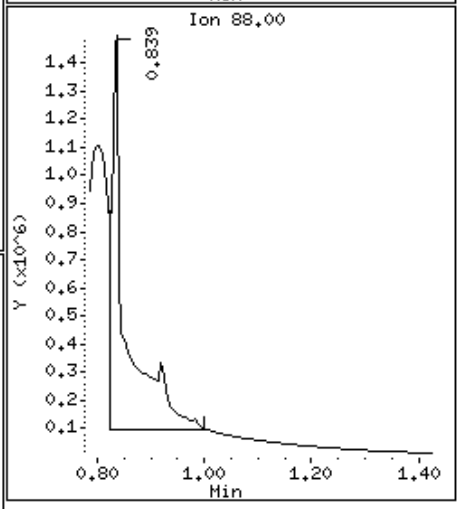
1 1,4-Dioxane

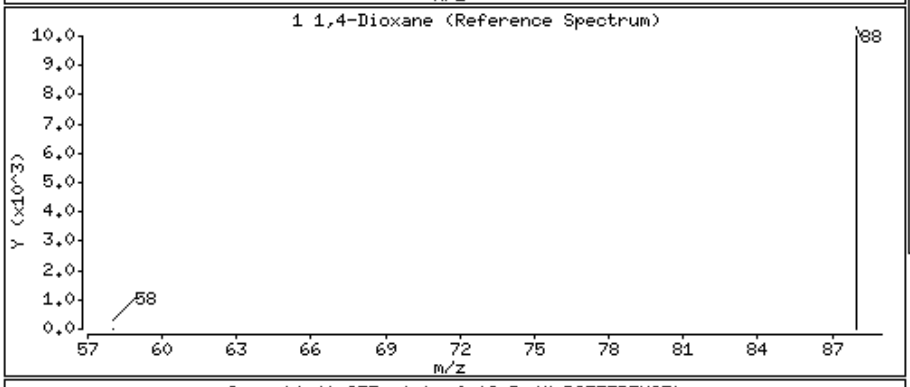
Concentration: 126.6 ug/L

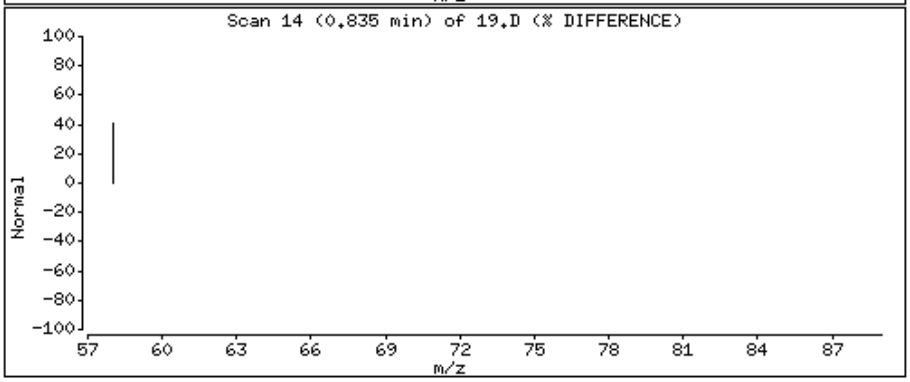












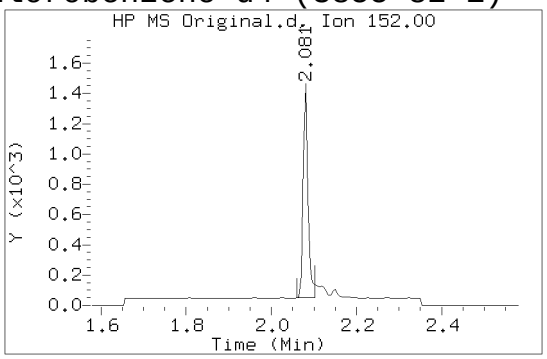
Data File : \\NAHSTWS005\Target\chem\SV6.i\240622.b\19.D
Inj Date : 22-JUN-2024 16:57
InstruID : SV6.i
LabSampID : HS24060747-05

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

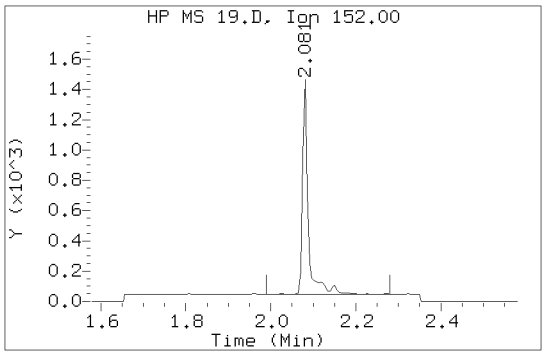
BEFORE

MASS
152
AREA
1143
HEIGHT
1415
22-Jun-2024
17:11
ALSHS
Server



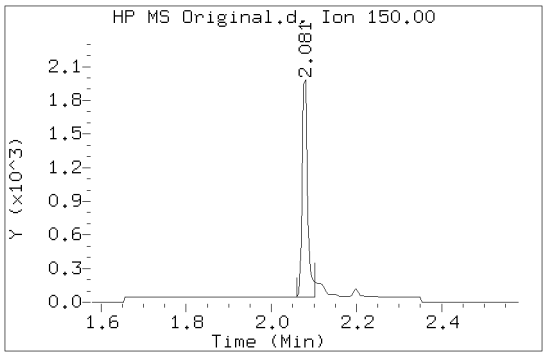
AFTER

MASS
152
AREA
1333
HEIGHT
1416
24-Jun-2024
15:31
ALSHS
Server



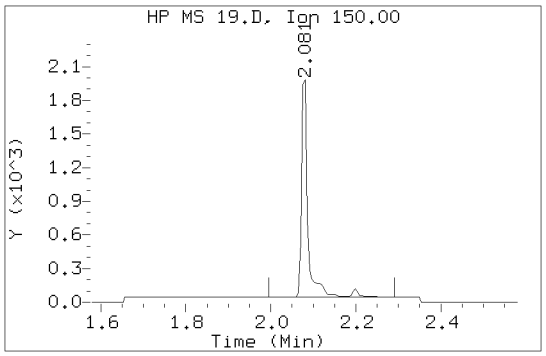
BEFORE

MASS
150
AREA
1798
HEIGHT
1935
22-Jun-2024
17:11
ALSHS
Server



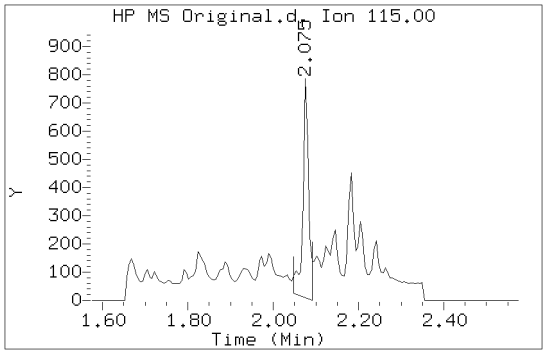
AFTER

MASS
150
AREA
2061
HEIGHT
1935
24-Jun-2024
15:31
ALSHS
Server



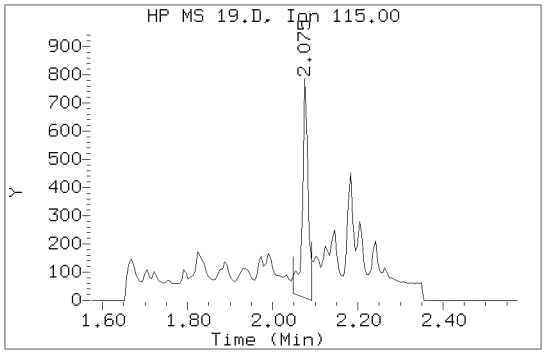
BEFORE

MASS
115
AREA
750
HEIGHT
777
22-Jun-2024
17:11
ALSHS
Server



AFTER

MASS
115
AREA
750
HEIGHT
777
24-Jun-2024
15:31
ALSHS
Server

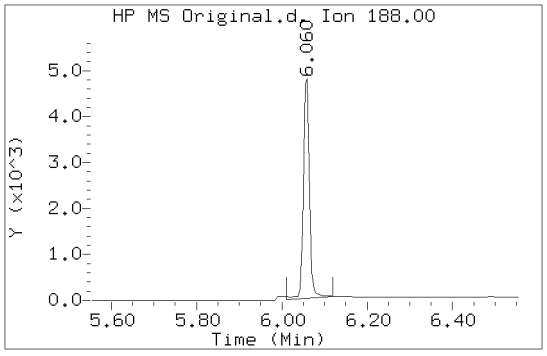


Phenanthrene-d10 (1517-22-2)

Reason Code:

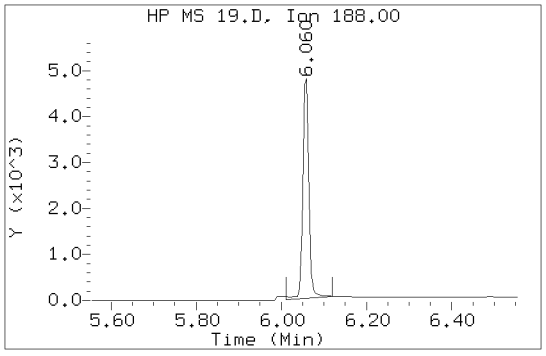
BEFORE

MASS
188
AREA
4778
HEIGHT
4783
22-Jun-2024
17:11
ALSHS
Server



AFTER

MASS
188
AREA
4778
HEIGHT
4783
24-Jun-2024
15:31
ALSHS
Server

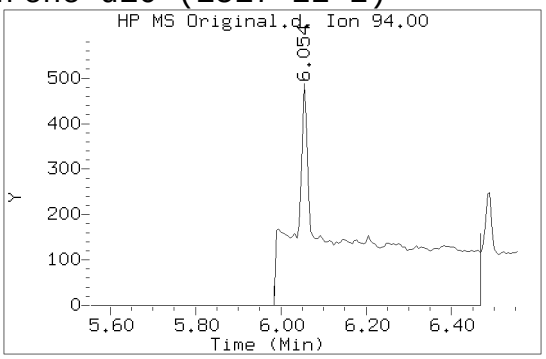


Data File : \\NAHSTWS005\Target\chem\SV6.i\240622.b\19.D
Inj Date : 22-JUN-2024 16:57
InstruID : SV6.i
LabSampID : HS24060747-05

Phenanthrene-d10 (1517-22-2)

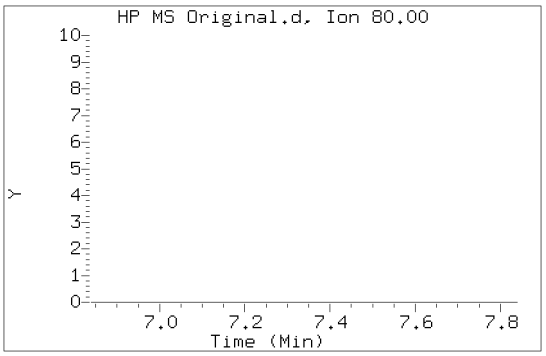
BEFORE

MASS
94
AREA
4235
HEIGHT
488
22-Jun-2024
17:11
ALSHS
Server



BEFORE

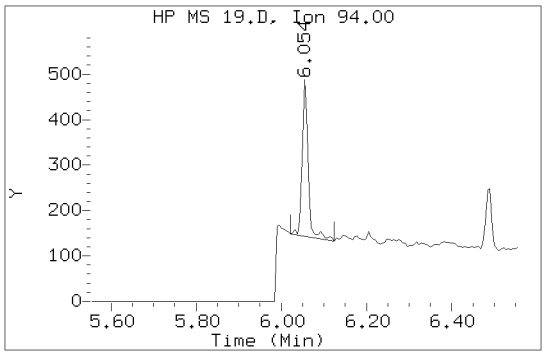
MASS
80
AREA
0
HEIGHT
0
22-Jun-2024
17:11
ALSHS
Server



Reason Code:

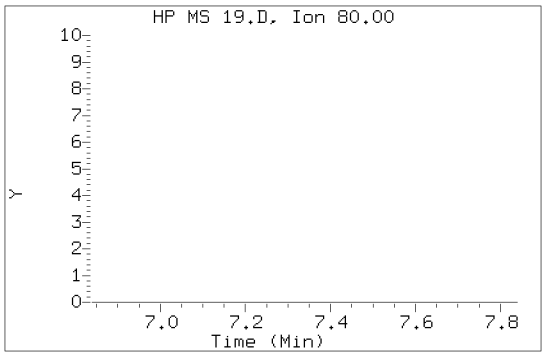
AFTER

MASS
94
AREA
332
HEIGHT
344
24-Jun-2024
15:31
ALSHS
Server



AFTER

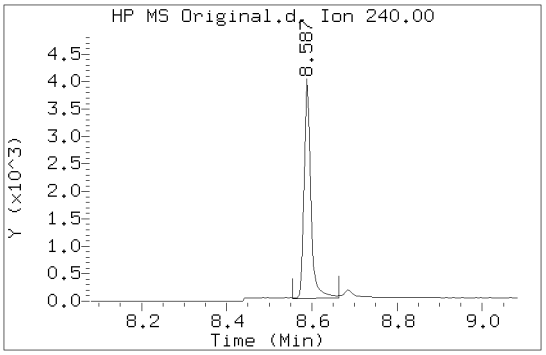
MASS
80
AREA
0
HEIGHT
0
24-Jun-2024
15:31
ALSHS
Server



Chrysene-d12 (1719-03-5)

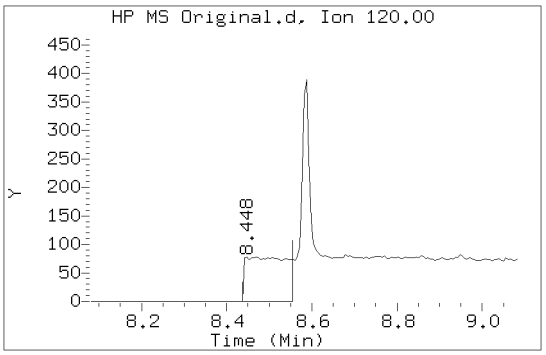
BEFORE

MASS
240
AREA
4348
HEIGHT
3993
22-Jun-2024
17:11
ALSHS
Server



BEFORE

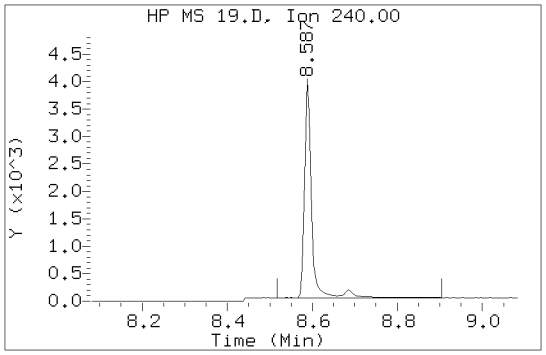
MASS
120
AREA
530
HEIGHT
78
22-Jun-2024
17:11
ALSHS
Server



Reason Code:

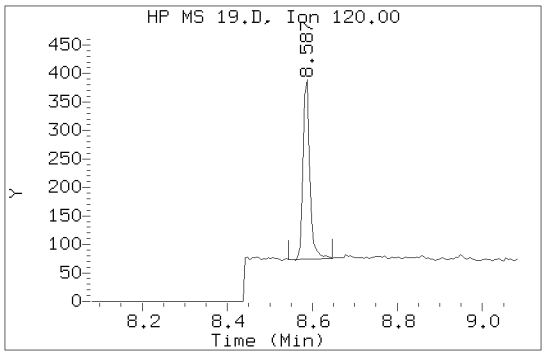
AFTER

MASS
240
AREA
4592
HEIGHT
3985
24-Jun-2024
15:31
ALSHS
Server



AFTER

MASS
120
AREA
345
HEIGHT
315
24-Jun-2024
15:31
ALSHS
Server



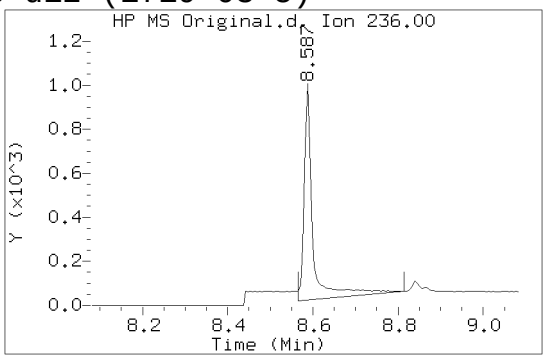
Data File : \\NAHSTWS005\Target\chem\SV6.i\240622.b\19.D
Inj Date : 22-JUN-2024 16:57
InstruID : SV6.i
LabSampID : HS24060747-05

Chrysene-d12 (1719-03-5)

Reason Code:

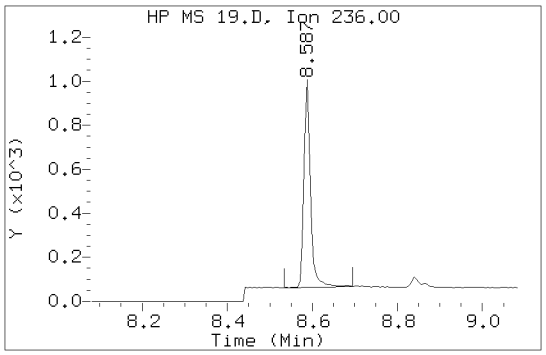
BEFORE

MASS
236
AREA
1356
HEIGHT
982
22-Jun-2024
17:11
ALSHS
Server



AFTER

MASS
236
AREA
997
HEIGHT
943
24-Jun-2024
15:31
ALSHS
Server

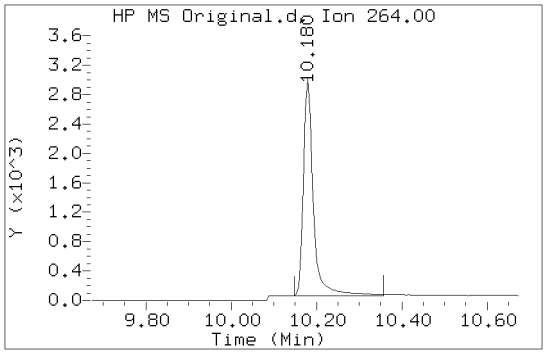


Perylene-d12 (1520-96-3)

Reason Code:

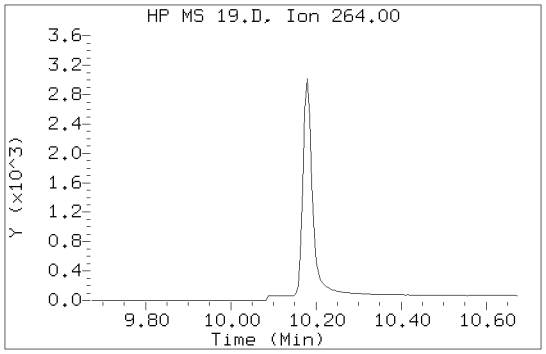
BEFORE

MASS
264
AREA
4708
HEIGHT
2953
22-Jun-2024
17:11
ALSHS
Server



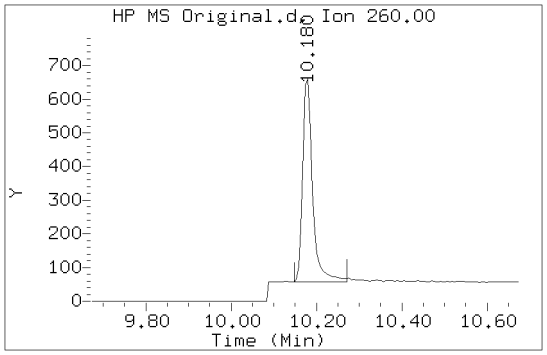
AFTER

MASS
264
AREA
4798
HEIGHT
2953
24-Jun-2024
15:31
ALSHS
Server



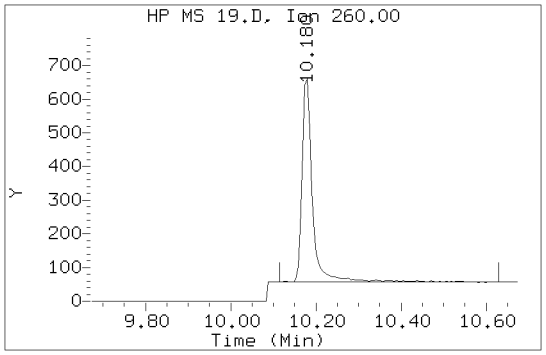
BEFORE

MASS
260
AREA
971
HEIGHT
603
22-Jun-2024
17:11
ALSHS
Server



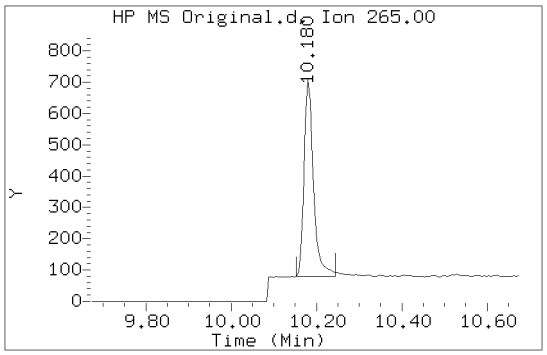
AFTER

MASS
260
AREA
1013
HEIGHT
602
24-Jun-2024
15:31
ALSHS
Server



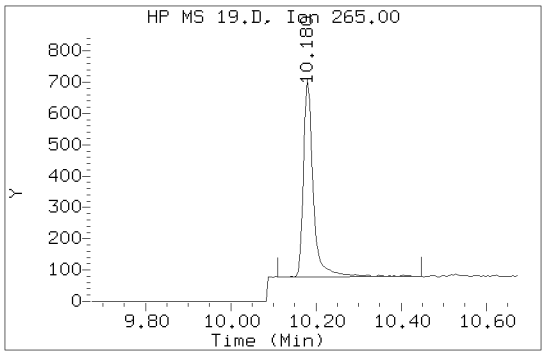
BEFORE

MASS
265
AREA
950
HEIGHT
628
22-Jun-2024
17:11
ALSHS
Server



AFTER

MASS
265
AREA
993
HEIGHT
629
24-Jun-2024
15:31
ALSHS
Server



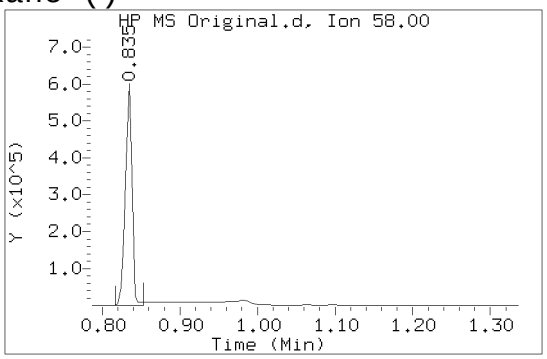
Data File : \\NAHSTWS005\Target\chem\SV6.i\240622.b\19.D
Inj Date : 22-JUN-2024 16:57
InstruID : SV6.i
LabSampID : HS24060747-05

1,4-Dioxane ()

Reason Code:

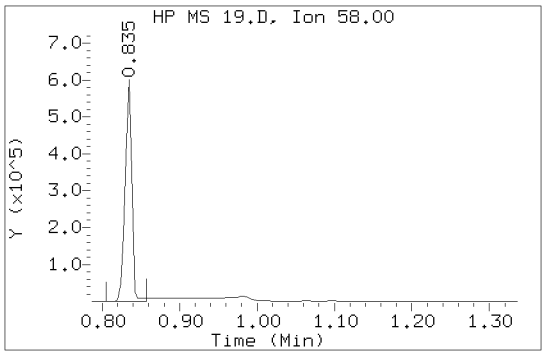
BEFORE

MASS
58
AREA
360023
HEIGHT
600896
22-Jun-2024
17:11
ALSHS
Server



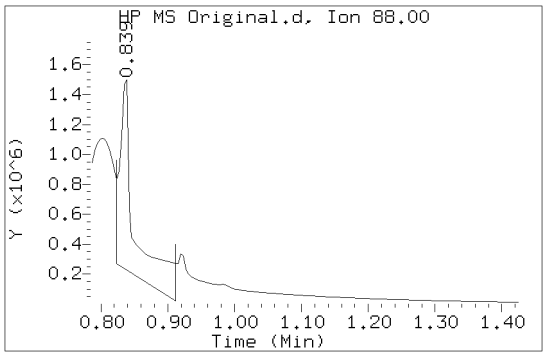
AFTER

MASS
58
AREA
361512
HEIGHT
600793
24-Jun-2024
15:31
ALSHS
Server



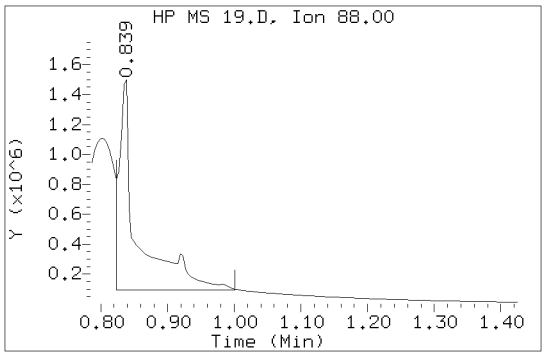
BEFORE

MASS
88
AREA
1986090
HEIGHT
1268681
22-Jun-2024
17:11
ALSHS
Server



AFTER

MASS
88
AREA
2662927
HEIGHT
1404293
24-Jun-2024
15:31
ALSHS
Server

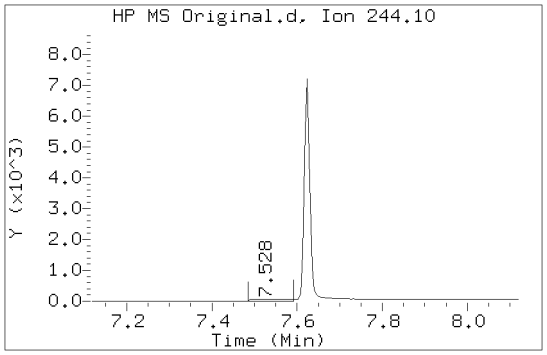


4-Terphenyl-d14 (1718-51-0)

Reason Code:

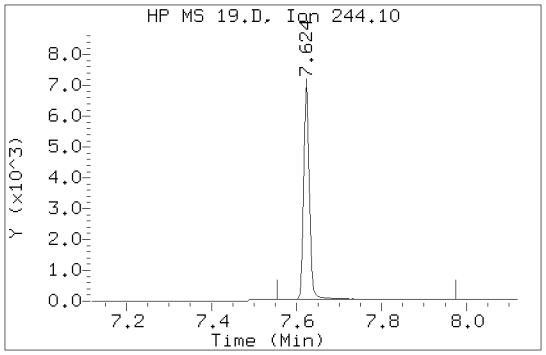
BEFORE

MASS
244.1
AREA
388
HEIGHT
62
22-Jun-2024
17:11
ALSHS
Server



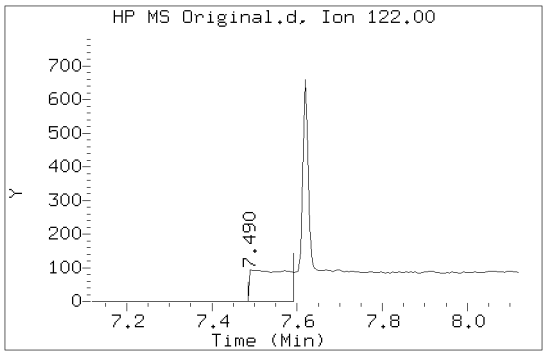
AFTER

MASS
244.1
AREA
6462
HEIGHT
7146
24-Jun-2024
15:31
ALSHS
Server



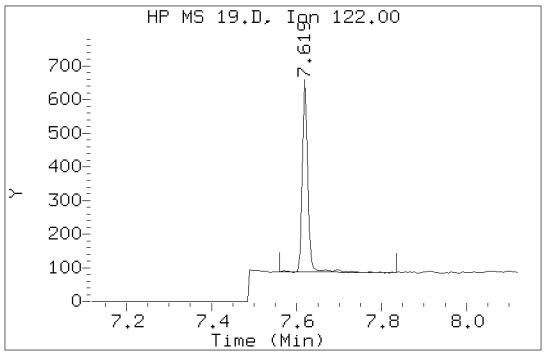
BEFORE

MASS
122
AREA
575
HEIGHT
94
22-Jun-2024
17:11
ALSHS
Server



AFTER

MASS
122
AREA
522
HEIGHT
571
24-Jun-2024
15:31
ALSHS
Server



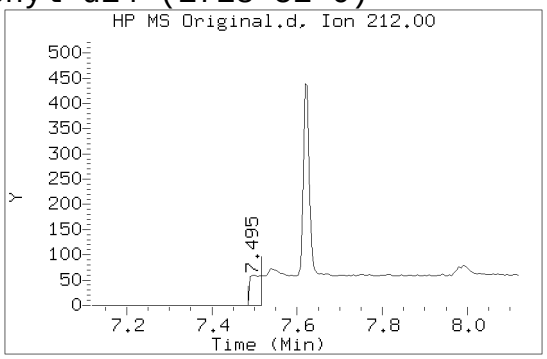
Data File : \\NAHSTWS005\Target\chem\SV6.i\240622.b\19.D
Inj Date : 22-JUN-2024 16:57
InstruID : SV6.i
LabSampID : HS24060747-05

4-Terphenyl-d14 (1718-51-0)

Reason Code:

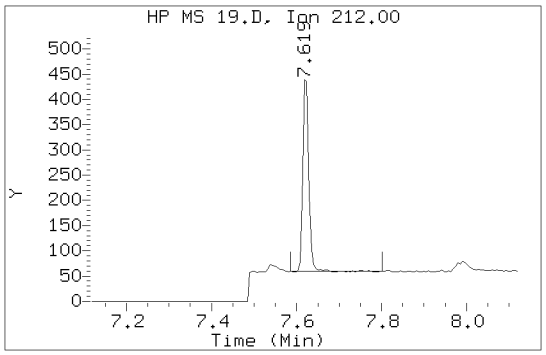
BEFORE

MASS
212
AREA
113
HEIGHT
60
22-Jun-2024
17:11
ALSHS
Server



AFTER

MASS
212
AREA
362
HEIGHT
379
24-Jun-2024
15:31
ALSHS
Server

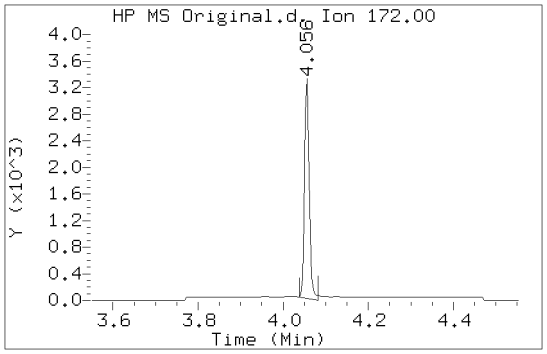


2-Fluorobiphenyl (321-60-8)

Reason Code:

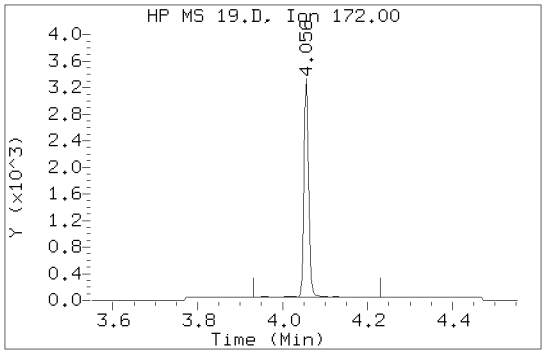
BEFORE

MASS
172
AREA
2554
HEIGHT
3304
22-Jun-2024
17:11
ALSHS
Server



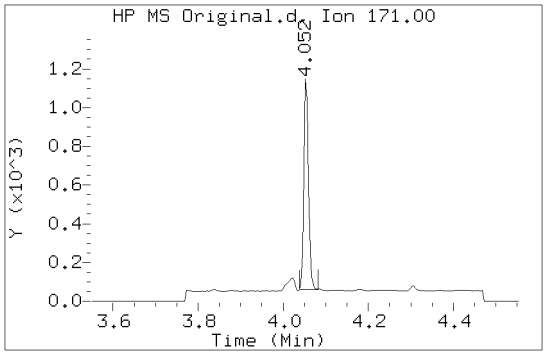
AFTER

MASS
172
AREA
2566
HEIGHT
3287
24-Jun-2024
15:31
ALSHS
Server



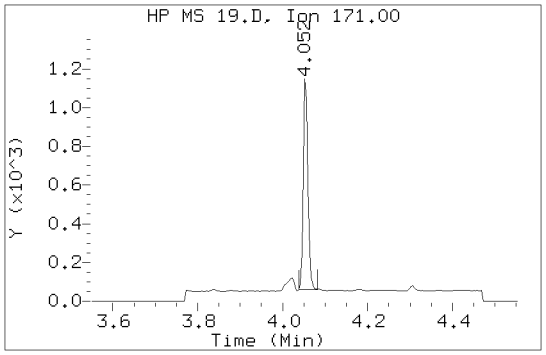
BEFORE

MASS
171
AREA
830
HEIGHT
1089
22-Jun-2024
17:11
ALSHS
Server



AFTER

MASS
171
AREA
830
HEIGHT
1089
24-Jun-2024
15:31
ALSHS
Server



Data File: \\NAHSTWS005\Target\chem\SV6.i\240622.b\20.D Page 1
Report Date: 24-Jun-2024 15:31

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240622.b\20.D
Lab Smp Id: HS24060747-09
Inj Date : 22-JUN-2024 17:14
Operator : LG Inst ID: SV6.i
Smp Info : HS24060747-09
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240622.b\DXSIM.m
Meth Date : 22-Jun-2024 12:47 SV6.i Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7015

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

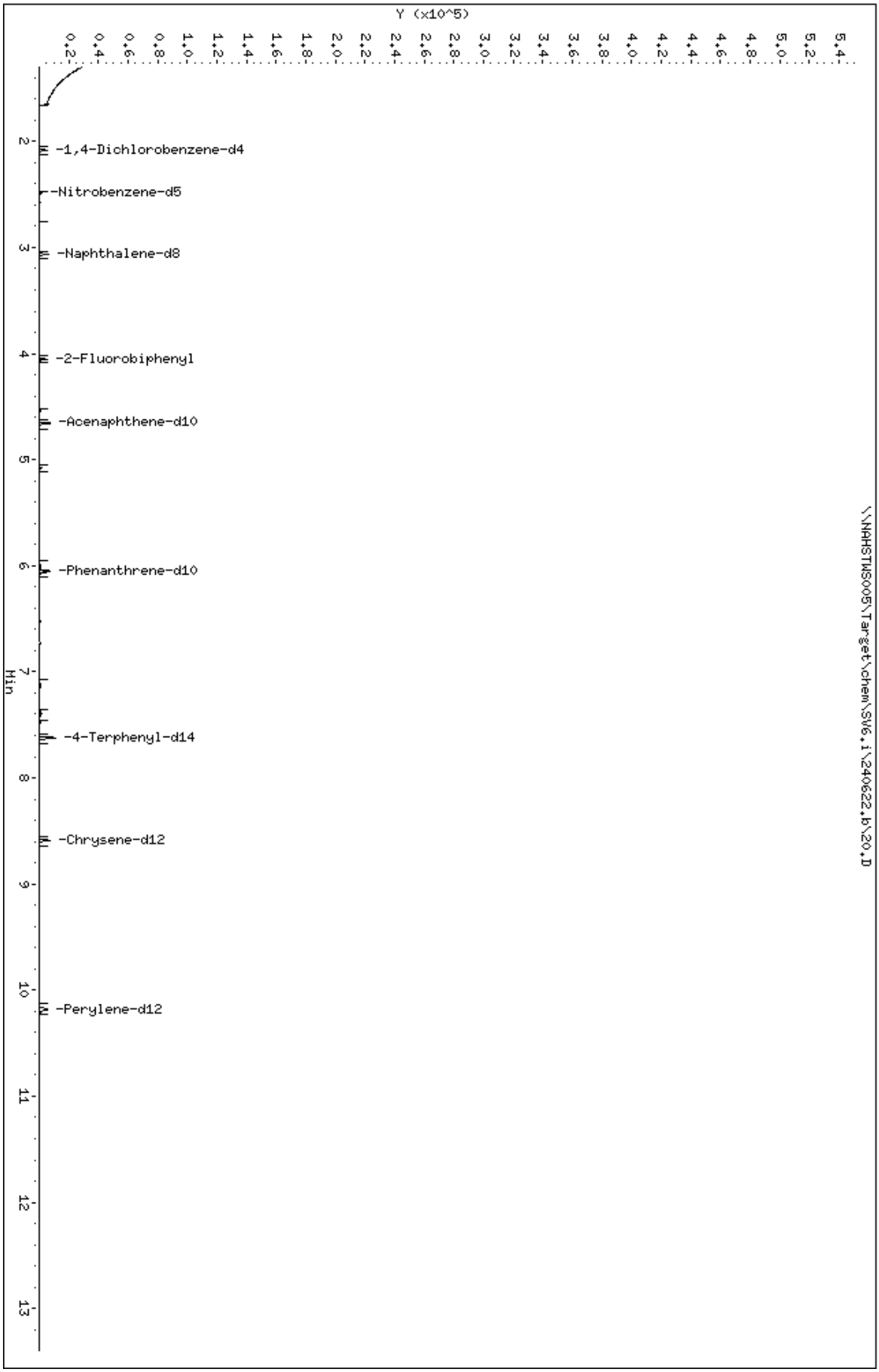
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	2.085	2.080	(1.000)	1660	0.10000	(aQ)
* 45 Naphthalene-d8	136	3.067	3.063	(1.000)	5479	0.10000	
$ 33 Nitrobenzene-d5	82	2.488	2.488	(0.811)	1203	0.07314	0.07314
* 86 Acenaphthene-d10	164	4.659	4.654	(1.000)	3164	0.10000	
$ 69 2-Fluorobiphenyl	172	4.055	4.052	(0.870)	3401	0.07032	0.07032(M)
* 126 Phenanthrene-d10	188	6.059	6.054	(1.000)	6115	0.10000	(M)
* 182 Chrysene-d12	240	8.587	8.581	(1.000)	6109	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.624	7.618	(0.900)	8255	0.06633	0.06633
* 198 Perylene-d12	264	10.184	10.174	(1.000)	6310	0.10000	
1 1,4-Dioxane	58	0.849	0.834	(0.407)	217	0.06103	0.06103(MH)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240622.b\20.D
Date : 22-JUN-2024 17:14
Client ID:
Sample Info: HS24060747-09
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SV6.i
Operator: LG
Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\240622.b\20.D

Date : 22-JUN-2024 17:14

Client ID:

Instrument: SV6.i

Sample Info: HS24060747-09

Purge Volume: 1000.0

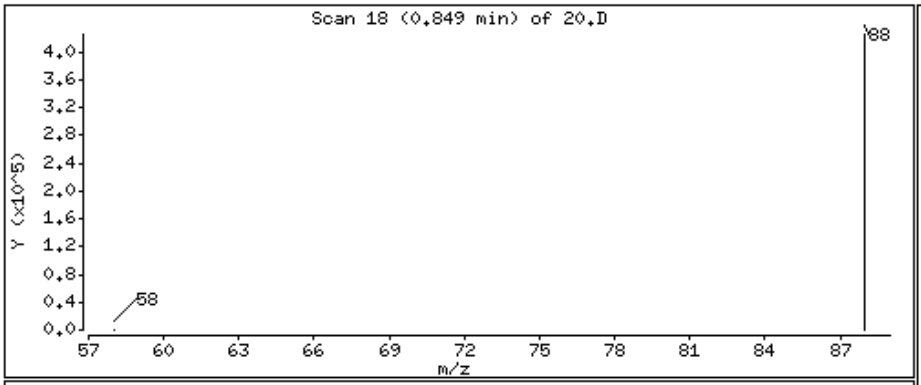
Operator: LG

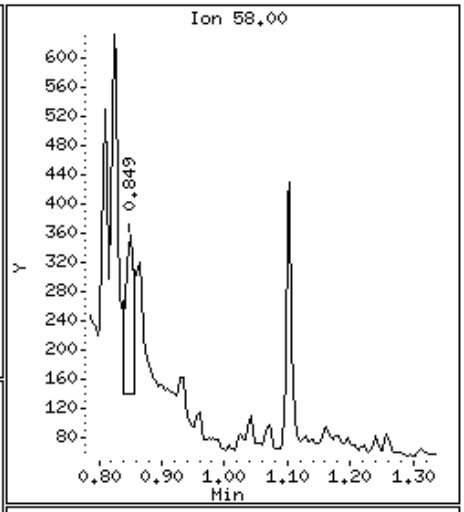
Column phase: RTX-5SIL MS

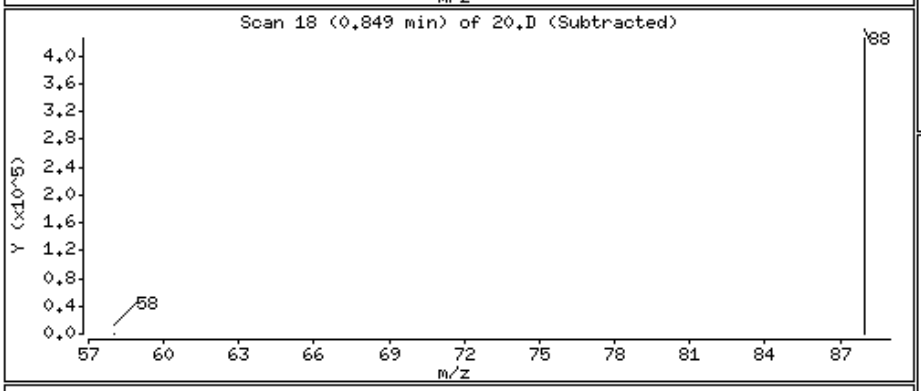
Column diameter: 0.28

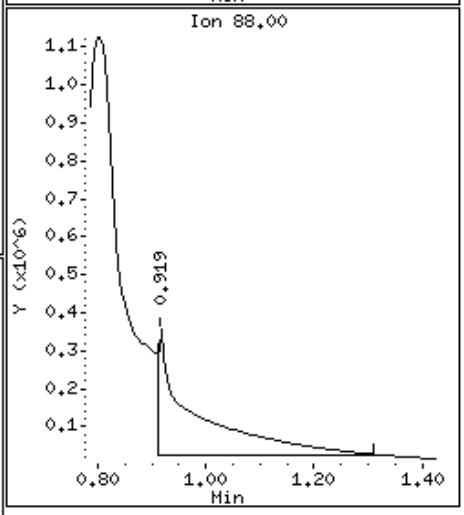
1 1,4-Dioxane

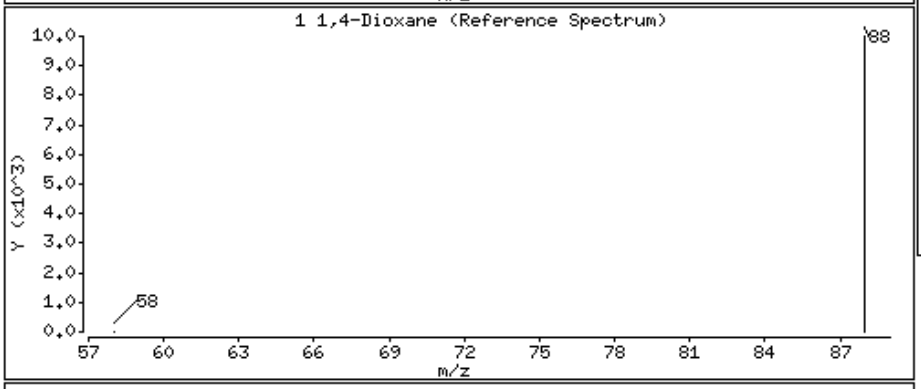
Concentration: 0.06103 ug/L

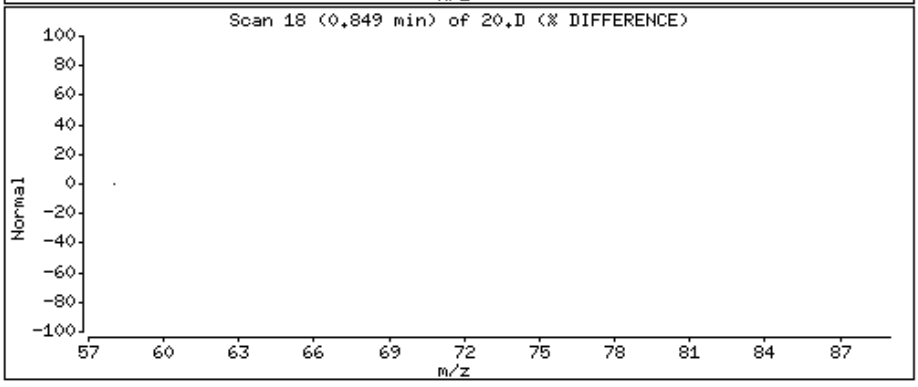












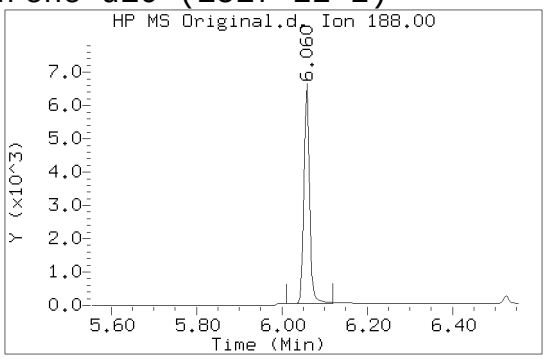
Data File : \\NAHSTWS005\Target\chem\SV6.i\240622.b\20.D
Inj Date : 22-JUN-2024 17:14
InstruID : SV6.i
LabSampID : HS24060747-09

Phenanthrene-d10 (1517-22-2)

Reason Code:

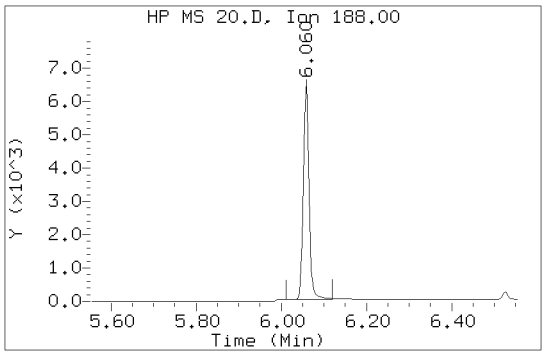
BEFORE

MASS
188
AREA
6115
HEIGHT
6603
22-Jun-2024
17:28
ALSHS
Server



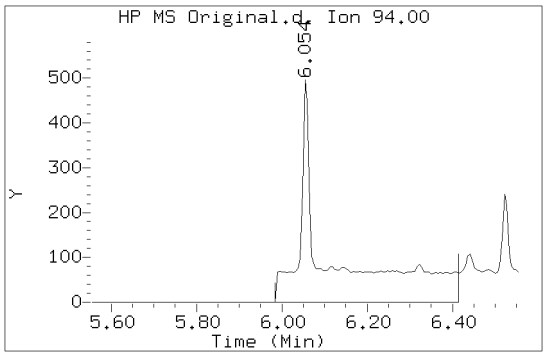
AFTER

MASS
188
AREA
6115
HEIGHT
6603
24-Jun-2024
15:31
ALSHS
Server



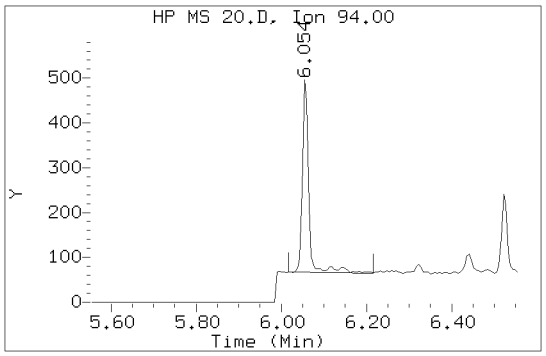
BEFORE

MASS
94
AREA
2173
HEIGHT
496
22-Jun-2024
17:28
ALSHS
Server



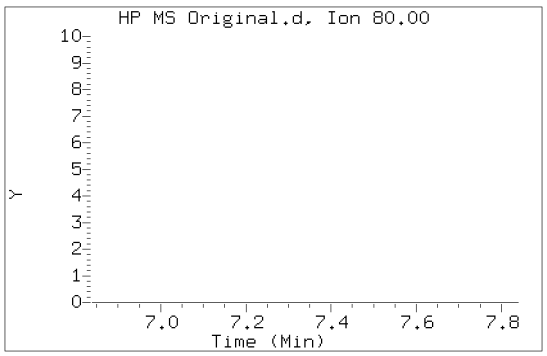
AFTER

MASS
94
AREA
437
HEIGHT
428
24-Jun-2024
15:31
ALSHS
Server



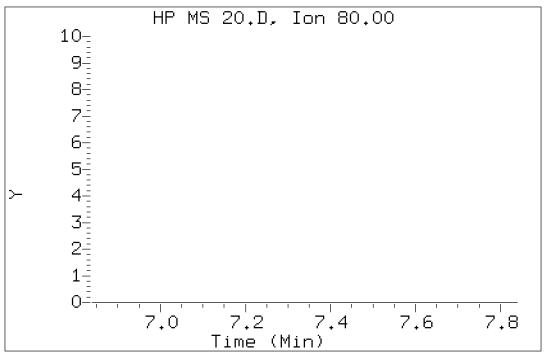
BEFORE

MASS
80
AREA
0
HEIGHT
0
22-Jun-2024
17:28
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
24-Jun-2024
15:31
ALSHS
Server

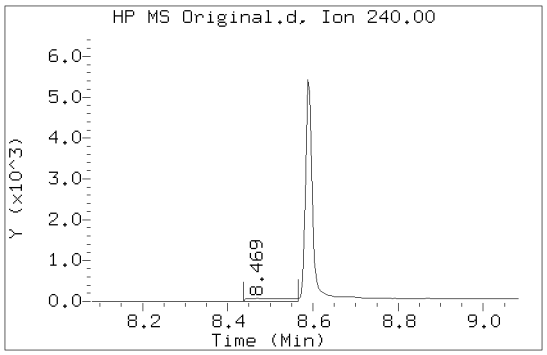


Chrysene-d12 (1719-03-5)

Reason Code:

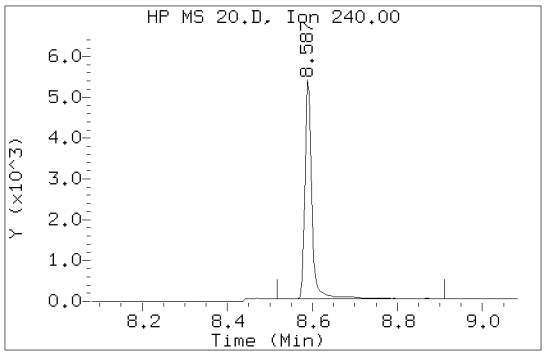
BEFORE

MASS
240
AREA
496
HEIGHT
72
22-Jun-2024
17:28
ALSHS
Server



AFTER

MASS
240
AREA
6109
HEIGHT
5367
24-Jun-2024
15:31
ALSHS
Server

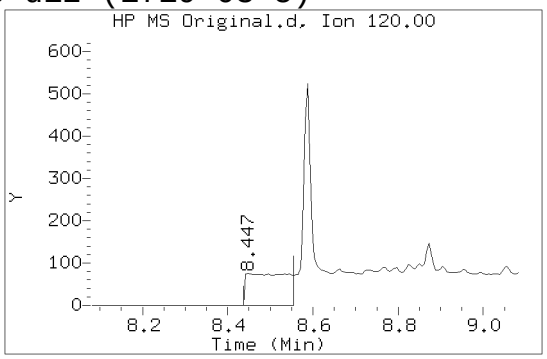


Data File : \\NAHSTWS005\Target\chem\SV6.i\240622.b\20.D
Inj Date : 22-JUN-2024 17:14
InstruID : SV6.i
LabSampID : HS24060747-09

Chrysene-d12 (1719-03-5)

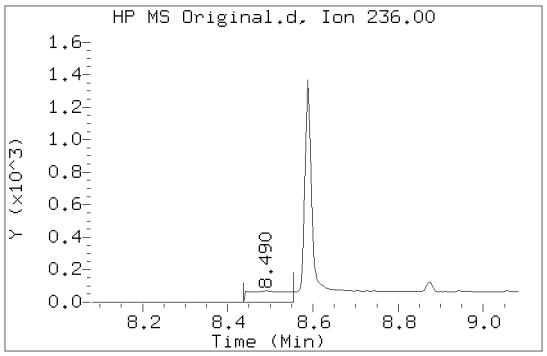
BEFORE

MASS
120
AREA
516
HEIGHT
76
22-Jun-2024
17:28
ALSHS
Server



BEFORE

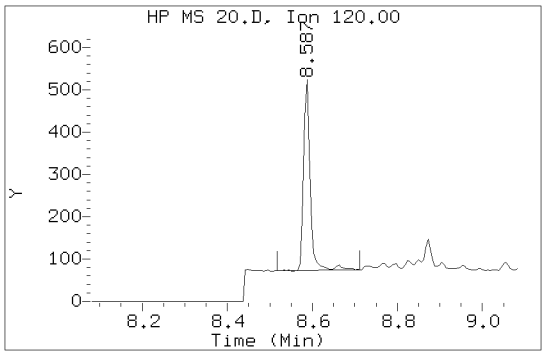
MASS
236
AREA
462
HEIGHT
70
22-Jun-2024
17:28
ALSHS
Server



Reason Code:

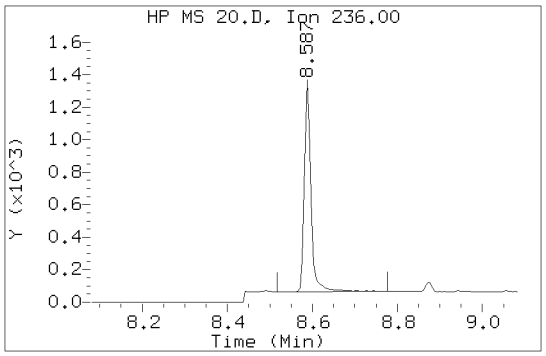
AFTER

MASS
120
AREA
484
HEIGHT
450
24-Jun-2024
15:31
ALSHS
Server



AFTER

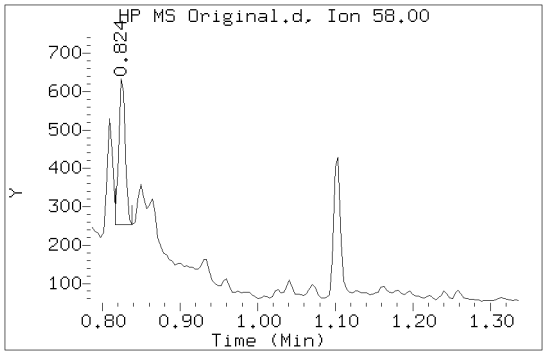
MASS
236
AREA
1402
HEIGHT
1303
24-Jun-2024
15:31
ALSHS
Server



1,4-Dioxane ()

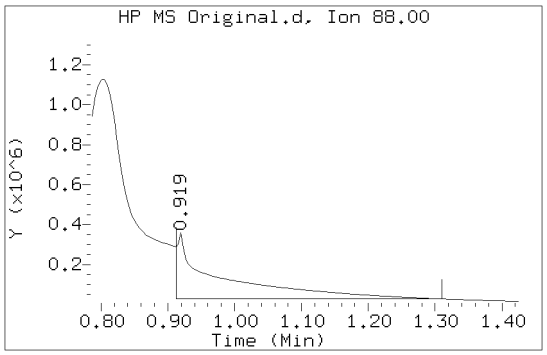
BEFORE

MASS
58
AREA
232
HEIGHT
380
22-Jun-2024
17:28
ALSHS
Server



BEFORE

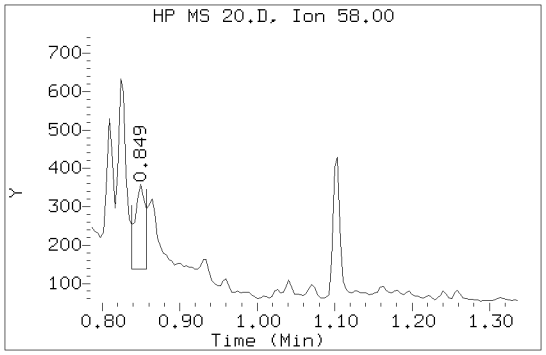
MASS
88
AREA
1461036
HEIGHT
330168
22-Jun-2024
17:28
ALSHS
Server



Reason Code:

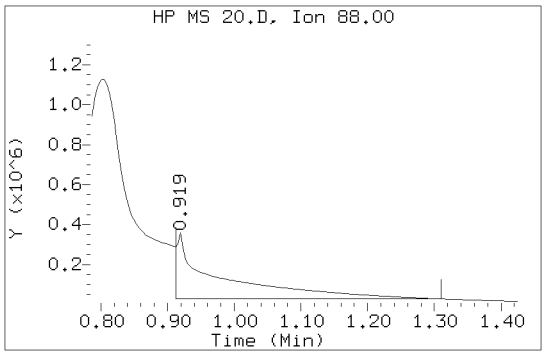
AFTER

MASS
58
AREA
217
HEIGHT
220
24-Jun-2024
15:31
ALSHS
Server



AFTER

MASS
88
AREA
1461036
HEIGHT
330168
24-Jun-2024
15:31
ALSHS
Server



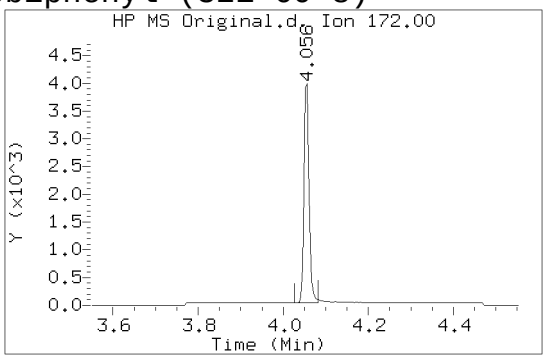
Data File : \\NAHSTWS005\Target\chem\SV6.i\240622.b\20.D
Inj Date : 22-JUN-2024 17:14
InstruID : SV6.i
LabSampID : HS24060747-09

2-Fluorobiphenyl (321-60-8)

Reason Code:

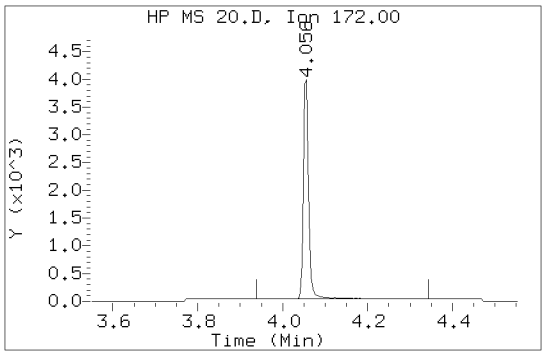
BEFORE

MASS
172
AREA
3306
HEIGHT
3947
22-Jun-2024
17:28
ALSHS
Server



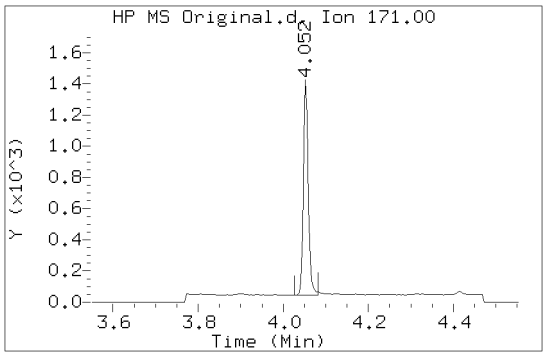
AFTER

MASS
172
AREA
3401
HEIGHT
3946
24-Jun-2024
15:31
ALSHS
Server



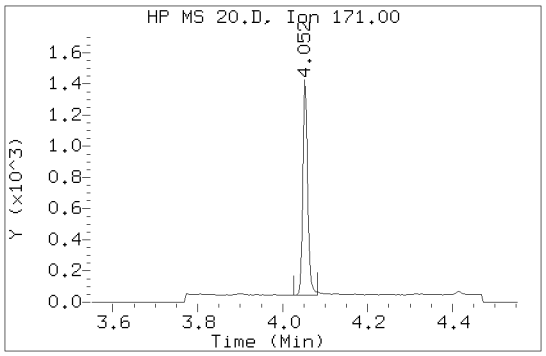
BEFORE

MASS
171
AREA
1110
HEIGHT
1380
22-Jun-2024
17:28
ALSHS
Server



AFTER

MASS
171
AREA
1110
HEIGHT
1380
24-Jun-2024
15:31
ALSHS
Server



Data File: \\NAHSTWS005\Target\chem\SV6.i\240622.b\21.D Page 1
Report Date: 24-Jun-2024 17:16

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240622.b\21.D
Lab Smp Id: 14DX-0.08
Inj Date : 22-JUN-2024 17:32
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240622.b\DXSIM.m
Meth Date : 22-Jun-2024 12:47 SV6.i Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 21
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7015

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	2.085	2.080	(1.000)	2383	0.10000	(aQ)
* 45 Naphthalene-d8	136	3.067	3.063	(1.000)	4762	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.488	2.488	(0.811)	1189	0.08317	0.08317(M)
* 86 Acenaphthene-d10	164	4.659	4.654	(1.000)	2854	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.055	4.052	(0.870)	3566	0.08174	0.08174(M)
* 126 Phenanthrene-d10	188	6.059	6.054	(1.000)	5508	0.10000	(M)
* 182 Chrysene-d12	240	8.592	8.581	(1.000)	5023	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.624	7.618	(0.887)	8234	0.08047	0.08047(M)
* 198 Perylene-d12	264	10.184	10.174	(1.000)	5798	0.10000	
1 1,4-Dioxane	58	0.842	0.834	(0.404)	278	0.05446	0.05446(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240622.b\21.D

Date : 22-JUN-2024 17:32

Client ID:

Instrument: SV6.i

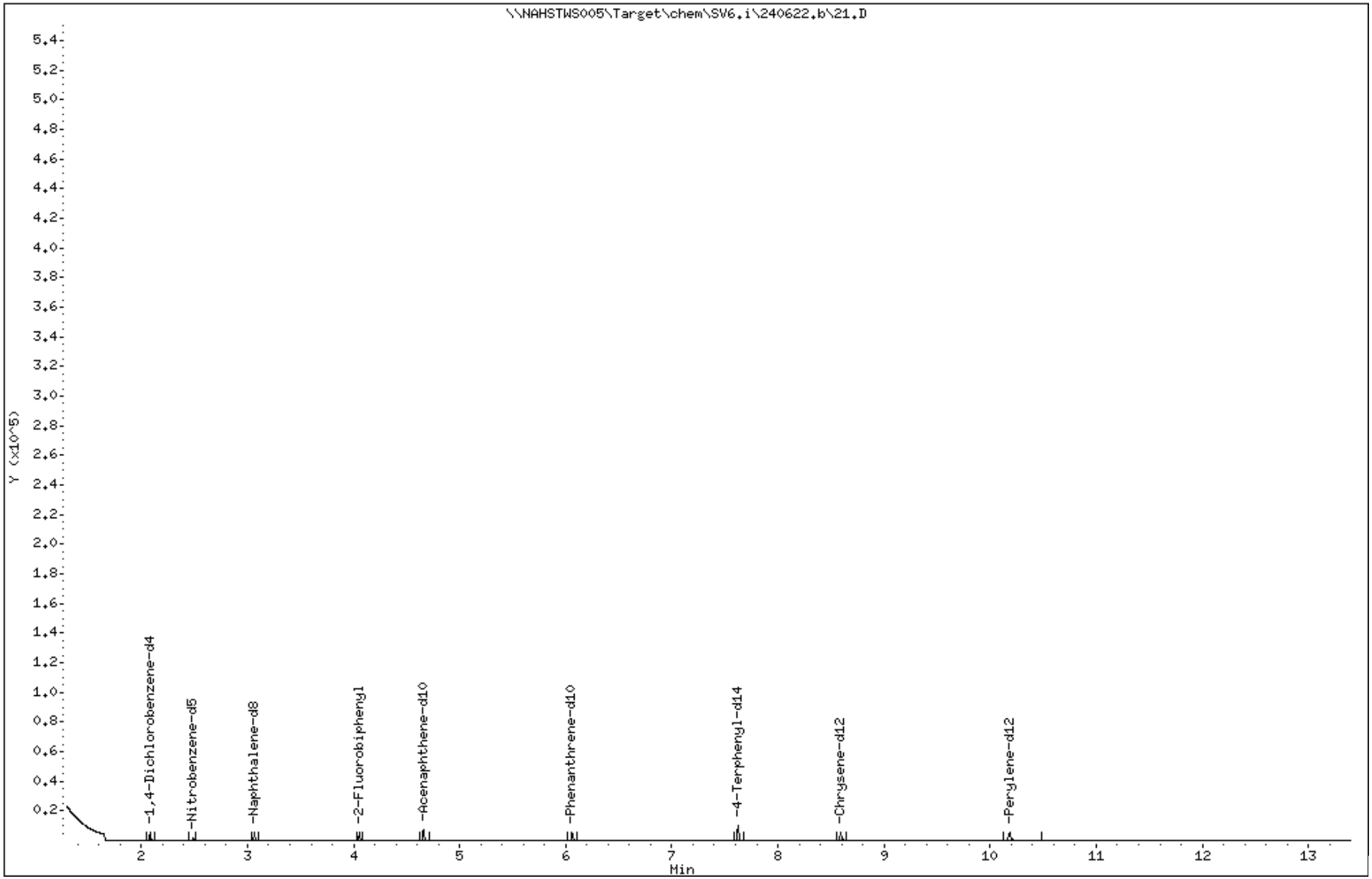
Sample Info: 14DX-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\240622.b\21.D

Date : 22-JUN-2024 17:32

Client ID:

Instrument: SV6.i

Sample Info: 14DX-0.08

Purge Volume: 1000.0

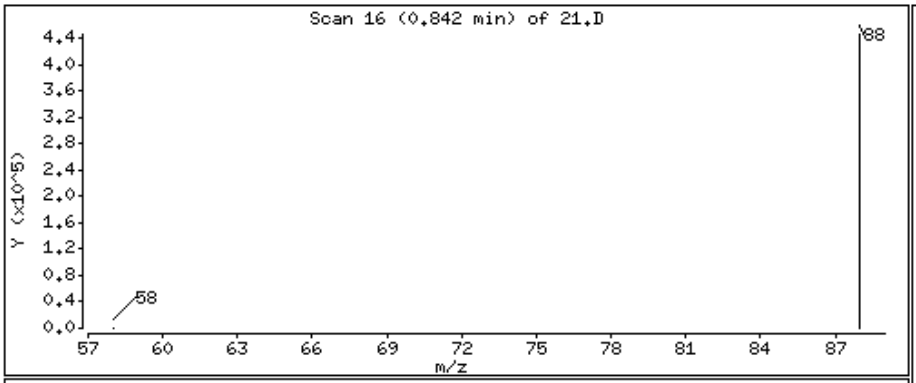
Operator: LG

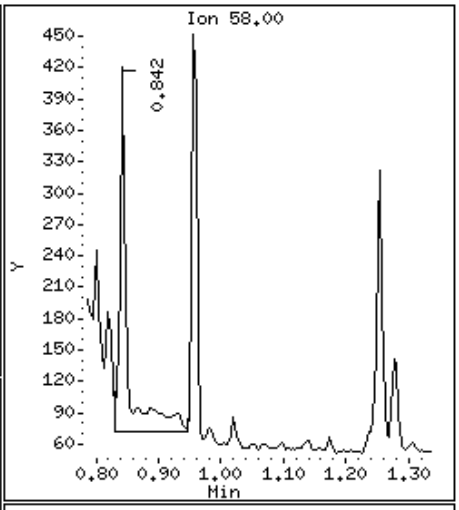
Column phase: RTX-5SIL MS

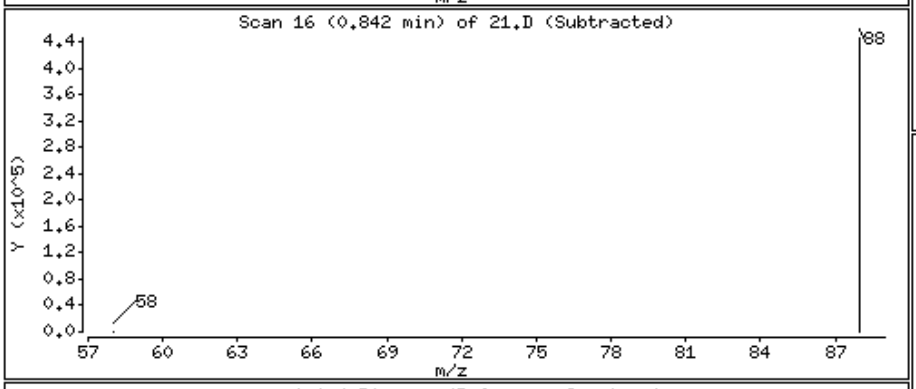
Column diameter: 0.28

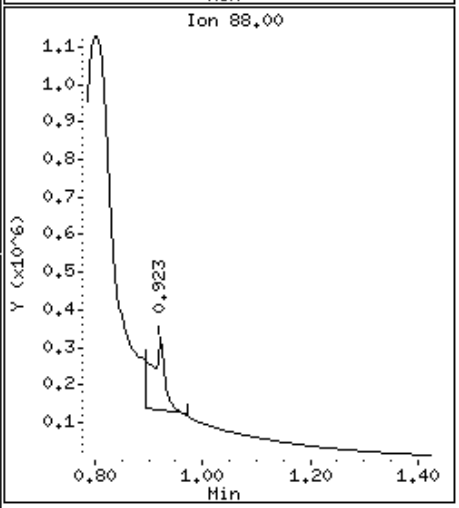
1 1,4-Dioxane

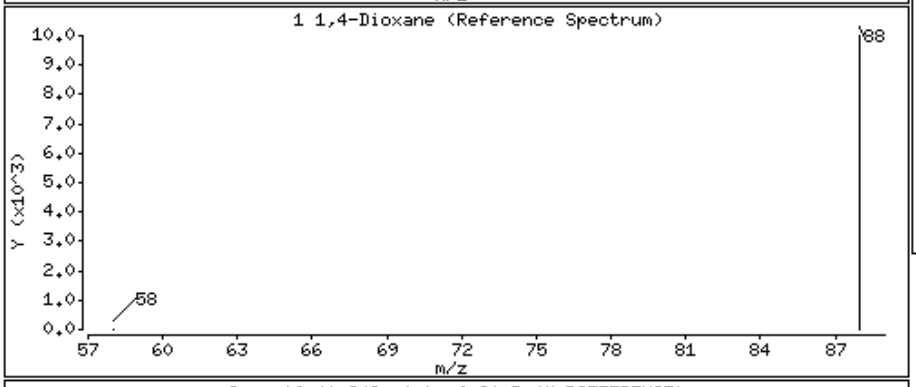
Concentration: 0.05446 ug/L

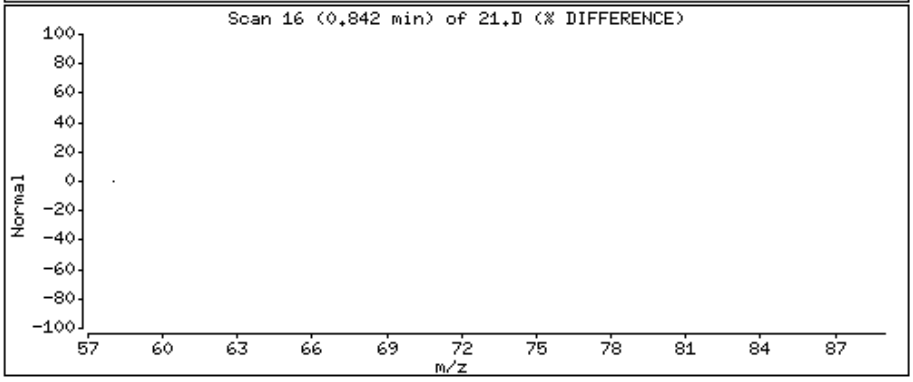










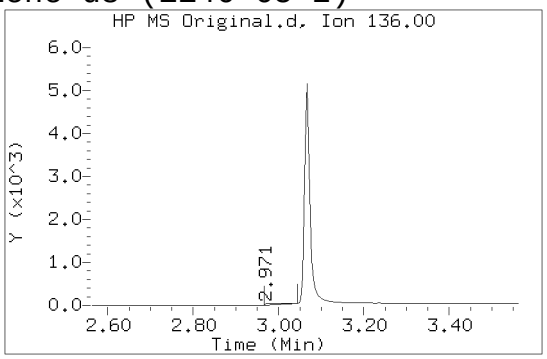


Data File : \\NAHSTWS005\Target\chem\SV6.i\240622.b\21.D
Inj Date : 22-JUN-2024 17:32
InstruID : SV6.i
LabSampID : 14DX-0.08

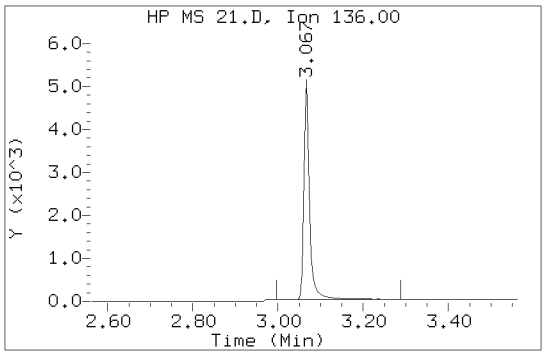
Naphthalene-d8 (1146-65-2)

Reason Code:

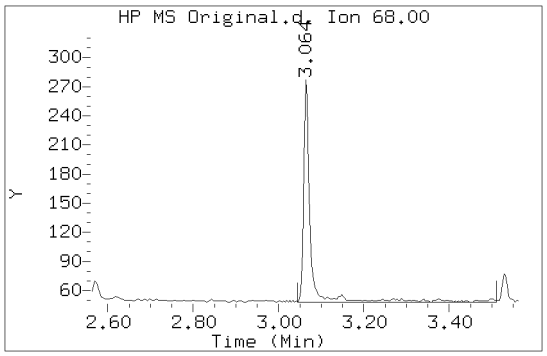
BEFORE
MASS
136
AREA
103
HEIGHT
43
22-Jun-2024
17:46
ALSHS
Server



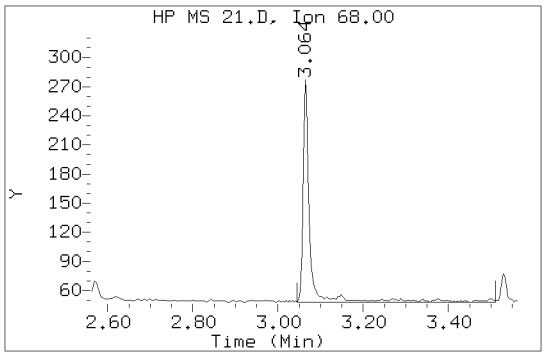
AFTER
MASS
136
AREA
4762
HEIGHT
5113
24-Jun-2024
17:16
ALSHS
Server



BEFORE
MASS
68
AREA
261
HEIGHT
229
22-Jun-2024
17:46
ALSHS
Server



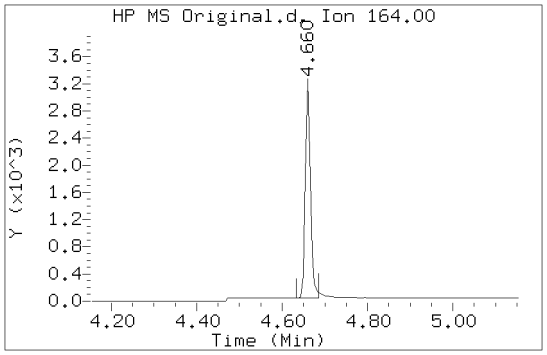
AFTER
MASS
68
AREA
261
HEIGHT
229
24-Jun-2024
17:16
ALSHS
Server



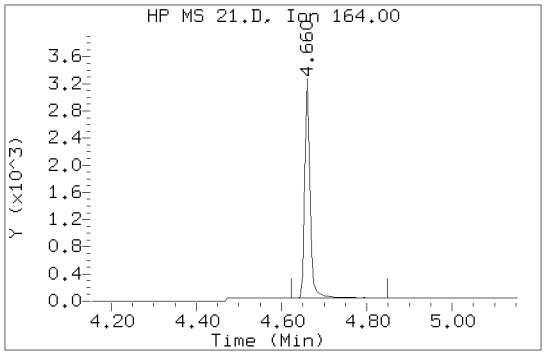
Acenaphthene-d10 (15067-26-2)

Reason Code:

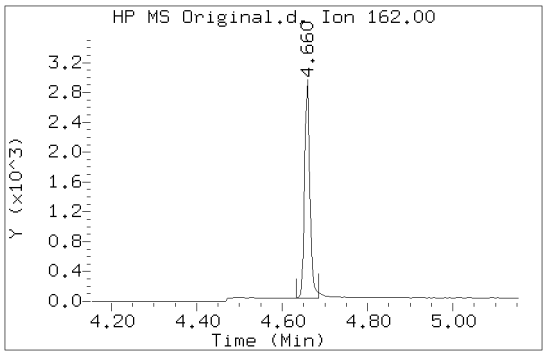
BEFORE
MASS
164
AREA
2761
HEIGHT
3224
22-Jun-2024
17:46
ALSHS
Server



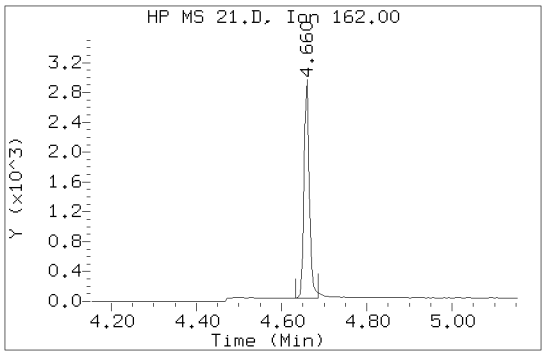
AFTER
MASS
164
AREA
2854
HEIGHT
3224
24-Jun-2024
17:16
ALSHS
Server



BEFORE
MASS
162
AREA
2576
HEIGHT
2924
22-Jun-2024
17:46
ALSHS
Server



AFTER
MASS
162
AREA
2576
HEIGHT
2924
24-Jun-2024
17:16
ALSHS
Server



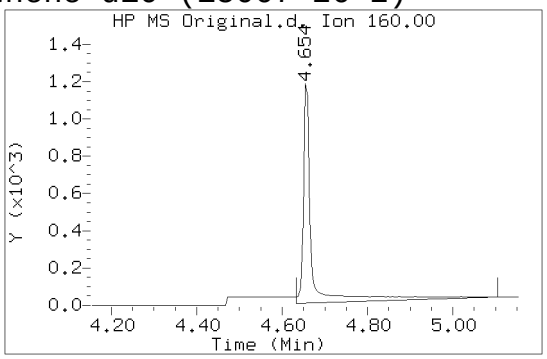
Data File : \\NAHSTWS005\Target\chem\SV6.i\240622.b\21.D
Inj Date : 22-JUN-2024 17:32
InstruID : SV6.i
LabSampID : 14DX-0.08

Acenaphthene-d10 (15067-26-2)

Reason Code:

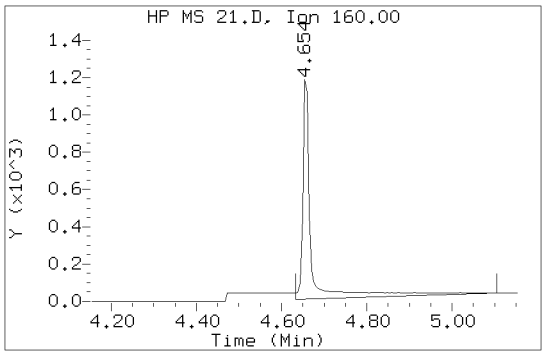
BEFORE

MASS
160
AREA
1608
HEIGHT
1175
22-Jun-2024
17:46
ALSHS
Server



AFTER

MASS
160
AREA
1608
HEIGHT
1175
24-Jun-2024
17:16
ALSHS
Server

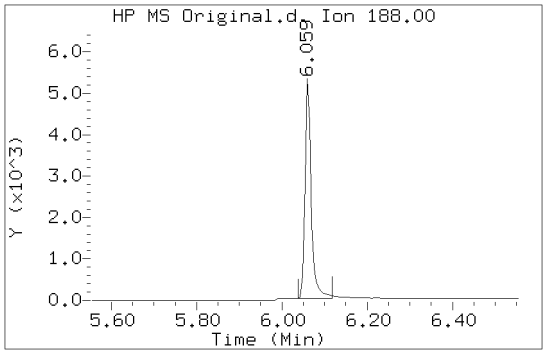


Phenanthrene-d10 (1517-22-2)

Reason Code:

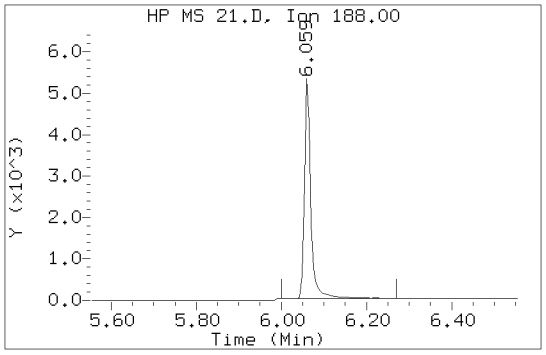
BEFORE

MASS
188
AREA
5399
HEIGHT
5306
22-Jun-2024
17:46
ALSHS
Server



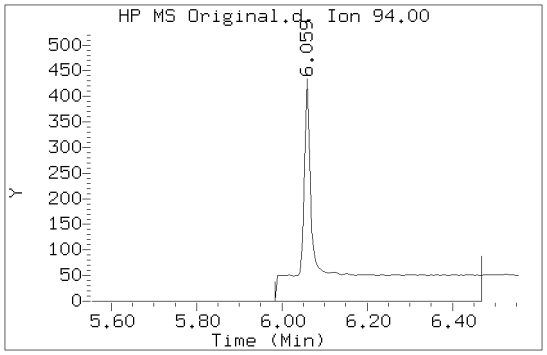
AFTER

MASS
188
AREA
5508
HEIGHT
5305
24-Jun-2024
17:16
ALSHS
Server



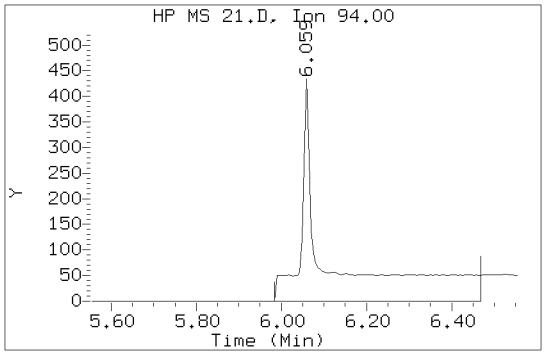
BEFORE

MASS
94
AREA
1850
HEIGHT
434
22-Jun-2024
17:46
ALSHS
Server



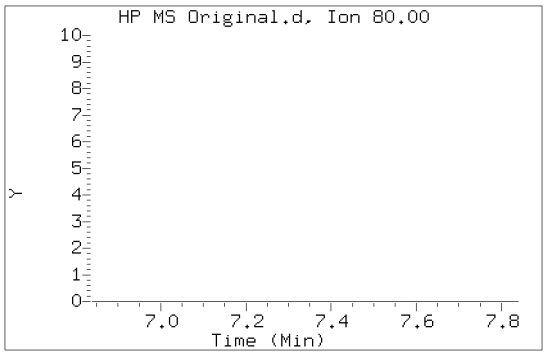
AFTER

MASS
94
AREA
1850
HEIGHT
434
24-Jun-2024
17:16
ALSHS
Server



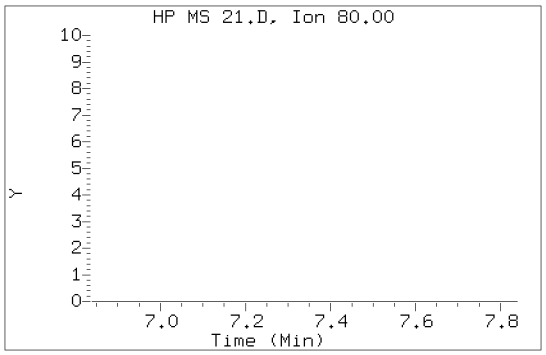
BEFORE

MASS
80
AREA
0
HEIGHT
0
22-Jun-2024
17:46
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
24-Jun-2024
17:16
ALSHS
Server



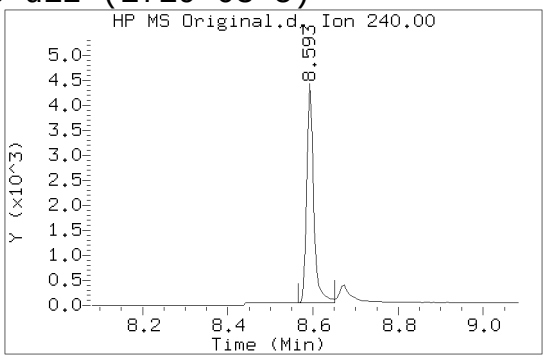
Data File : \\NAHSTWS005\Target\chem\SV6.i\240622.b\21.D
Inj Date : 22-JUN-2024 17:32
InstruID : SV6.i
LabSampID : 14DX-0.08

Chrysene-d12 (1719-03-5)

Reason Code:

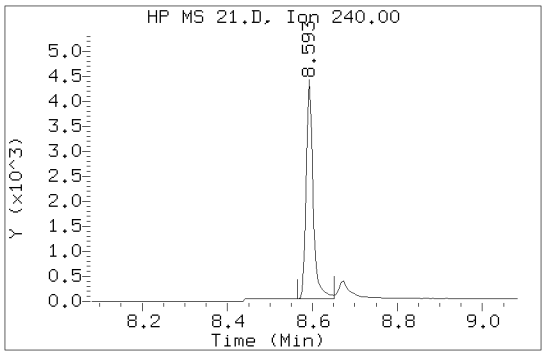
BEFORE

MASS
240
AREA
5023
HEIGHT
4383
22-Jun-2024
17:46
ALSHS
Server



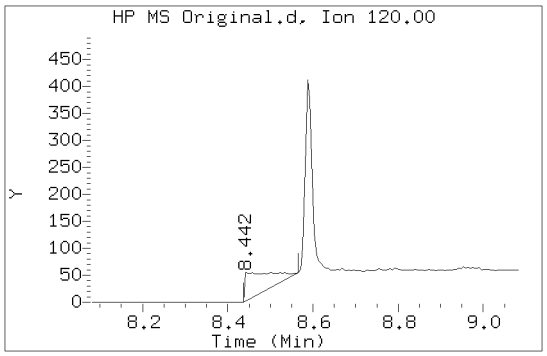
AFTER

MASS
240
AREA
5023
HEIGHT
4383
24-Jun-2024
17:16
ALSHS
Server



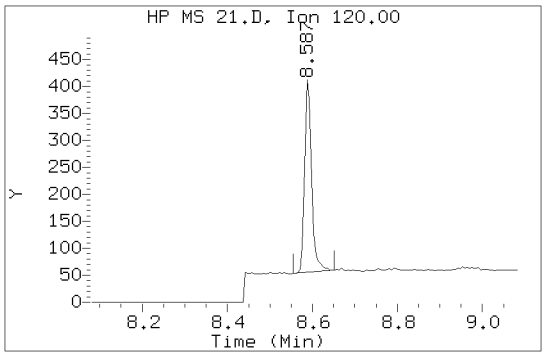
BEFORE

MASS
120
AREA
196
HEIGHT
52
22-Jun-2024
17:46
ALSHS
Server



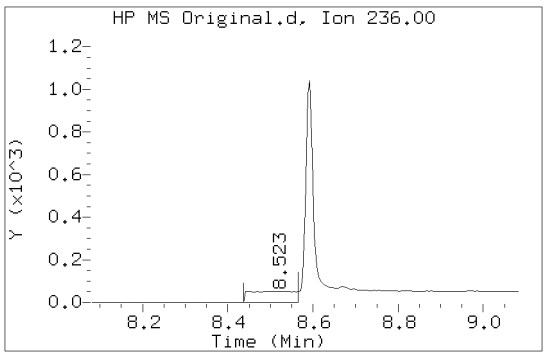
AFTER

MASS
120
AREA
403
HEIGHT
356
24-Jun-2024
17:16
ALSHS
Server



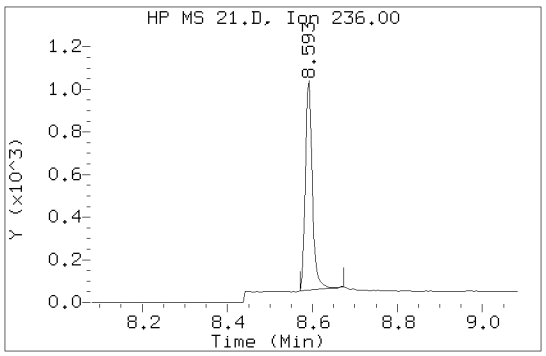
BEFORE

MASS
236
AREA
386
HEIGHT
52
22-Jun-2024
17:46
ALSHS
Server



AFTER

MASS
236
AREA
1117
HEIGHT
982
24-Jun-2024
17:16
ALSHS
Server

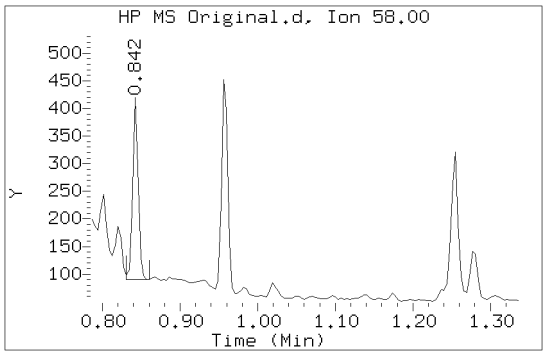


1,4-Dioxane ()

Reason Code:

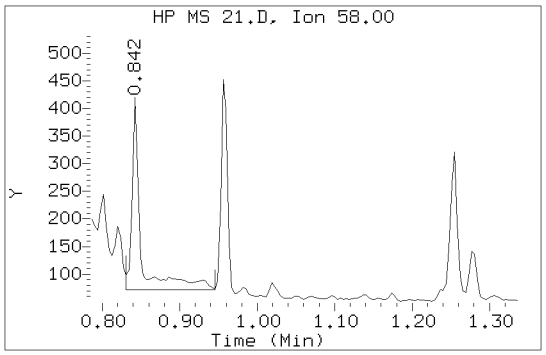
BEFORE

MASS
58
AREA
161
HEIGHT
330
22-Jun-2024
17:46
ALSHS
Server



AFTER

MASS
58
AREA
278
HEIGHT
348
24-Jun-2024
17:16
ALSHS
Server



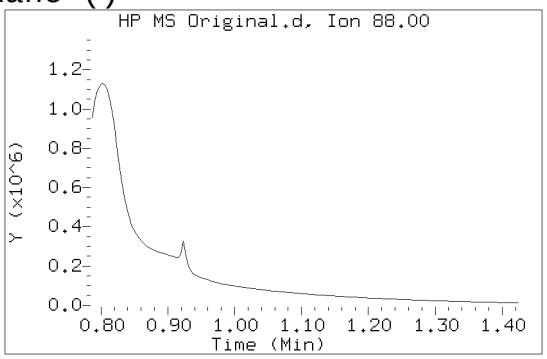
Data File : \\NAHSTWS005\Target\chem\SV6.i\240622.b\21.D
Inj Date : 22-JUN-2024 17:32
InstruID : SV6.i
LabSampID : 14DX-0.08

1,4-Dioxane ()

Reason Code:

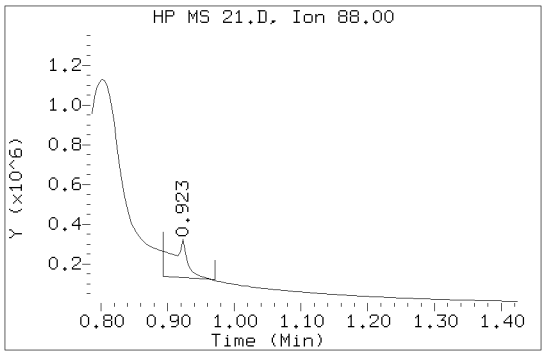
BEFORE

MASS
88
AREA
0
HEIGHT
0
22-Jun-2024
17:46
ALSHS
Server



AFTER

MASS
88
AREA
324689
HEIGHT
193726
24-Jun-2024
17:16
ALSHS
Server

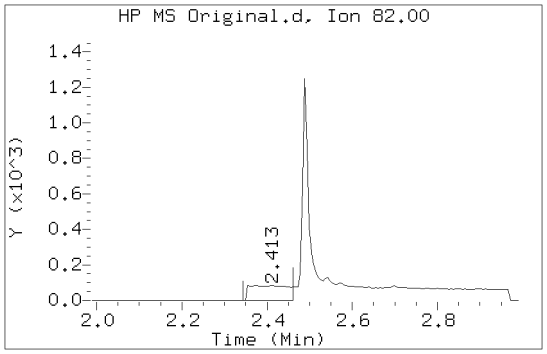


Nitrobenzene-d5 (4165-60-0)

Reason Code:

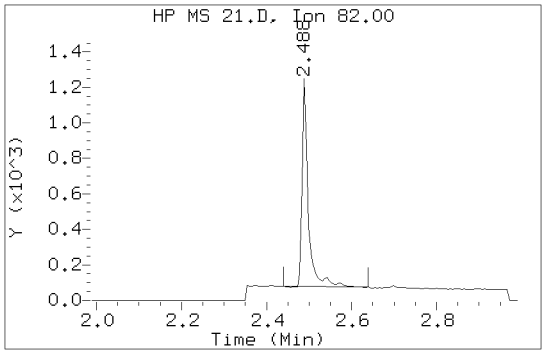
BEFORE

MASS
82
AREA
536
HEIGHT
84
22-Jun-2024
17:46
ALSHS
Server



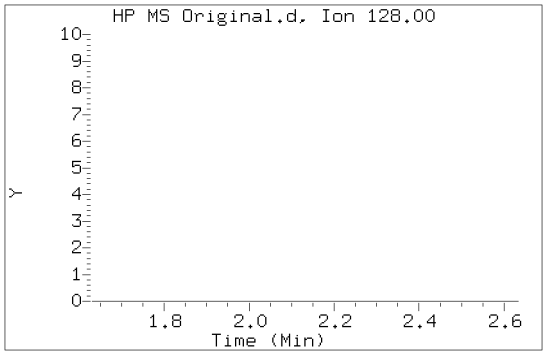
AFTER

MASS
82
AREA
1189
HEIGHT
1171
24-Jun-2024
17:16
ALSHS
Server



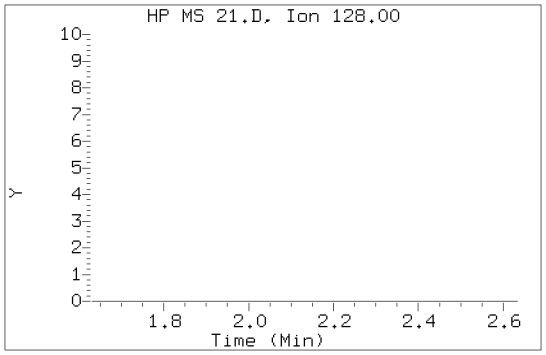
BEFORE

MASS
128
AREA
0
HEIGHT
0
22-Jun-2024
17:46
ALSHS
Server



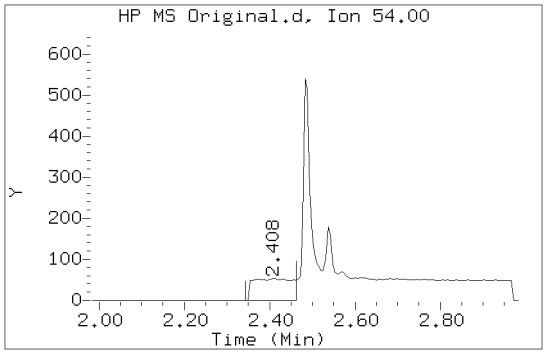
AFTER

MASS
128
AREA
0
HEIGHT
0
24-Jun-2024
17:16
ALSHS
Server



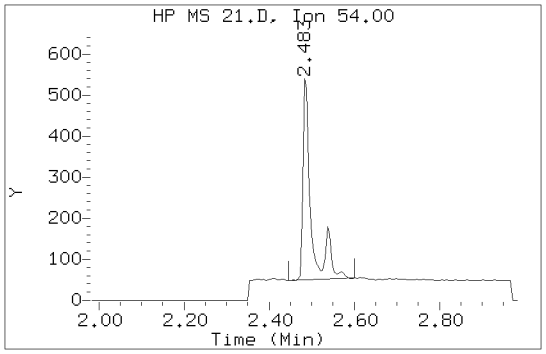
BEFORE

MASS
54
AREA
339
HEIGHT
53
22-Jun-2024
17:46
ALSHS
Server



AFTER

MASS
54
AREA
654
HEIGHT
490
24-Jun-2024
17:16
ALSHS
Server



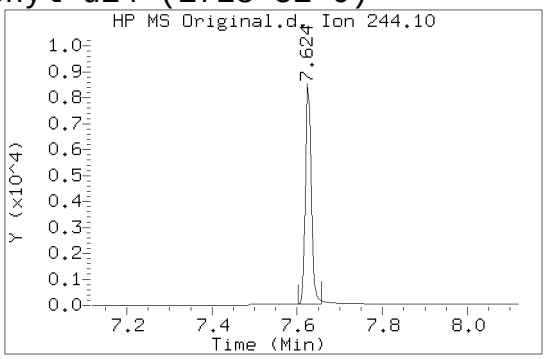
Data File : \\NAHSTWS005\Target\chem\SV6.i\240622.b\21.D
Inj Date : 22-JUN-2024 17:32
InstruID : SV6.i
LabSampID : 14DX-0.08

4-Terphenyl-d14 (1718-51-0)

Reason Code:

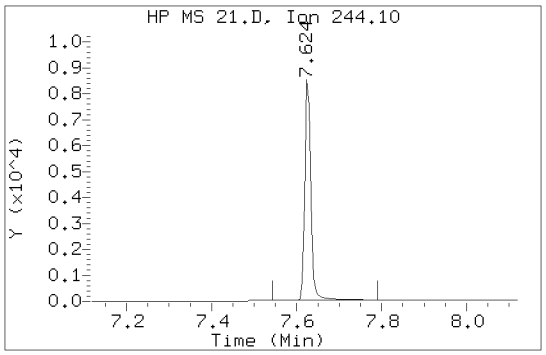
BEFORE

MASS
244.1
AREA
8047
HEIGHT
8498
22-Jun-2024
17:46
ALSHS
Server



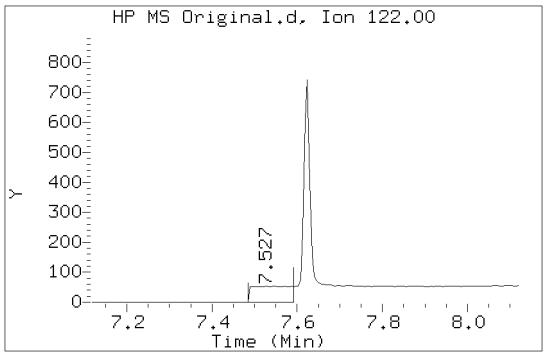
AFTER

MASS
244.1
AREA
8234
HEIGHT
8497
24-Jun-2024
17:16
ALSHS
Server



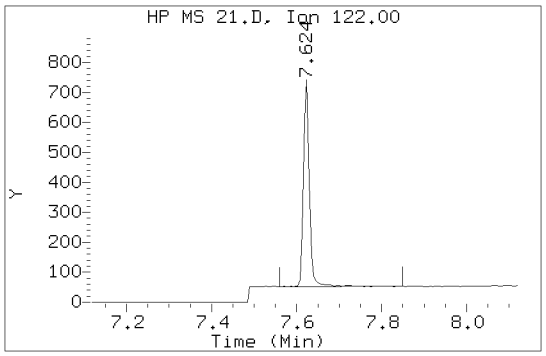
BEFORE

MASS
122
AREA
336
HEIGHT
53
22-Jun-2024
17:46
ALSHS
Server



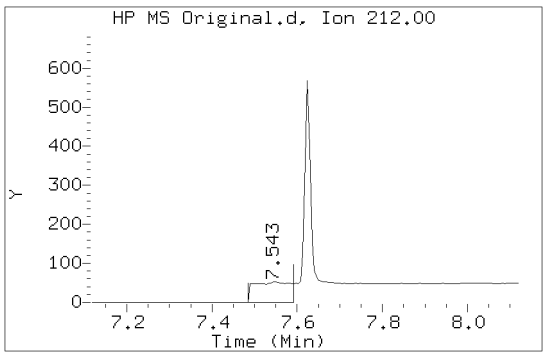
AFTER

MASS
122
AREA
657
HEIGHT
689
24-Jun-2024
17:16
ALSHS
Server



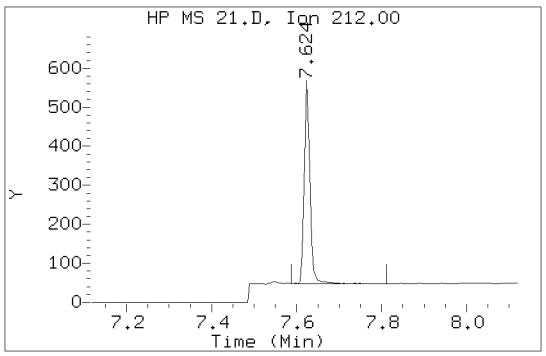
BEFORE

MASS
212
AREA
314
HEIGHT
52
22-Jun-2024
17:46
ALSHS
Server



AFTER

MASS
212
AREA
470
HEIGHT
520
24-Jun-2024
17:16
ALSHS
Server

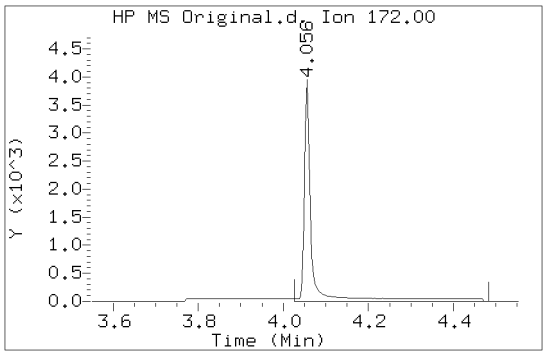


2-Fluorobiphenyl (321-60-8)

Reason Code:

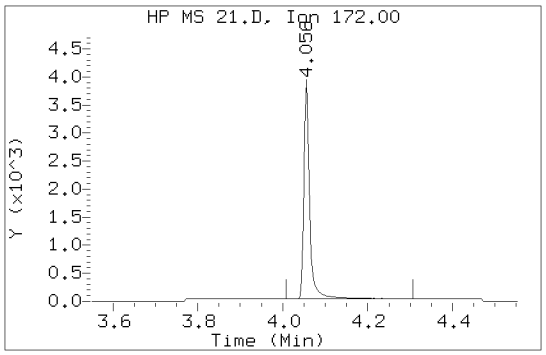
BEFORE

MASS
172
AREA
4860
HEIGHT
3950
22-Jun-2024
17:46
ALSHS
Server



AFTER

MASS
172
AREA
3566
HEIGHT
3904
24-Jun-2024
17:16
ALSHS
Server



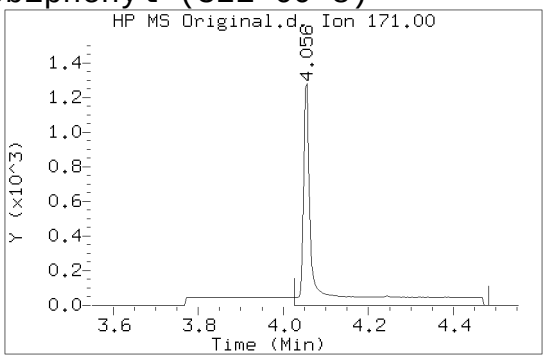
Data File : \\NAHSTWS005\Target\chem\SV6.i\240622.b\21.D
Inj Date : 22-JUN-2024 17:32
InstruID : SV6.i
LabSampID : 14DX-0.08

2-Fluorobiphenyl (321-60-8)

Reason Code:

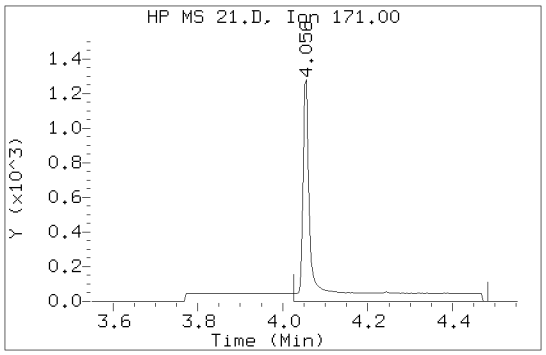
BEFORE

MASS
171
AREA
2451
HEIGHT
1280
22-Jun-2024
17:46
ALSHS
Server



AFTER

MASS
171
AREA
2451
HEIGHT
1280
24-Jun-2024
17:16
ALSHS
Server



right solutions.
right partner.

RawData

<textMethods>

Workorder

HS24060747

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

07/23/2024

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\SV6.i\240626a.b\01.D Page 1
Report Date: 26-Jun-2024 14:46

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\SV6.i\240626a.b\01.D
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Inj Date : 26-JUN-2024 14:31
Operator : smith Inst ID: SV6.i
Smp Info : DFTPP;DFTPP;3;;DFTPP
Misc Info :
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240626a.b\DFTPP.m
Meth Date : 14-Mar-2023 15:58 Linh.Pham Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: NAHSTW7015

					CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)		
RT	EXP RT	DLT RT	MASS	RESPONSE			TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
5.357	5.571	-0.214	198	127624			0.00- 100.00	71.71
5.357	6.357	-1.000	51	28112			10.00- 80.00	22.03
5.357	6.357	-1.000	68	628			0.00- 2.00	1.83
5.357	6.357	-1.000	69	34288			0.00- 0.00	26.87
5.357	6.357	-1.000	70	284			0.00- 2.00	0.83
5.357	6.357	-1.000	127	48216			10.00- 80.00	37.78
5.357	6.357	-1.000	197	0	0.0	0.0	0.00- 2.00	0.00
5.357	6.357	-1.000	199	8681			5.00- 9.00	6.80
5.357	6.357	-1.000	275	39112			10.00- 60.00	30.65
5.357	6.357	-1.000	365	4430			1.00- 100.00	3.47
5.357	6.357	-1.000	441	25448			0.01- 99.99	73.41
5.357	6.357	-1.000	442	177961			50.00- 150.00	139.44
5.357	6.357	-1.000	443	34664			15.00- 24.00	19.48

Data File: \\NAHSTWS005\Target\chem\SV6.i\240626a.b\04.D Page 1
Report Date: 26-Jun-2024 16:10

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240626a.b\04.D
Lab Smp Id: SIMDX-0.08
Inj Date : 26-JUN-2024 15:48
Operator : LG Inst ID: SV6.i
Smp Info : SIMDX-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240626a.b\DXSIM.m
Meth Date : 22-Jun-2024 12:47 SV6.i Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7015

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	2.028	2.080	(1.000)	1922	0.10000	(aM)
* 45 Naphthalene-d8	136	3.001	3.063	(1.000)	6343	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.425	2.488	(0.808)	1416	0.07436	0.07436(M)
* 86 Acenaphthene-d10	164	4.587	4.654	(1.000)	3839	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	3.986	4.052	(0.869)	4468	0.07614	0.07614(M)
* 126 Phenanthrene-d10	188	5.982	6.054	(1.000)	7288	0.10000	(M)
* 182 Chrysene-d12	240	8.509	8.581	(1.000)	6165	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.546	7.618	(0.887)	8087	0.06439	0.06439(M)
* 198 Perylene-d12	264	10.058	10.174	(1.000)	7002	0.10000	
1 1,4-Dioxane	58	0.823	0.834	(0.406)	324	0.07870	0.07870(Q)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240626a.b\04.D

Date : 26-JUN-2024 15:48

Client ID:

Instrument: SV6.i

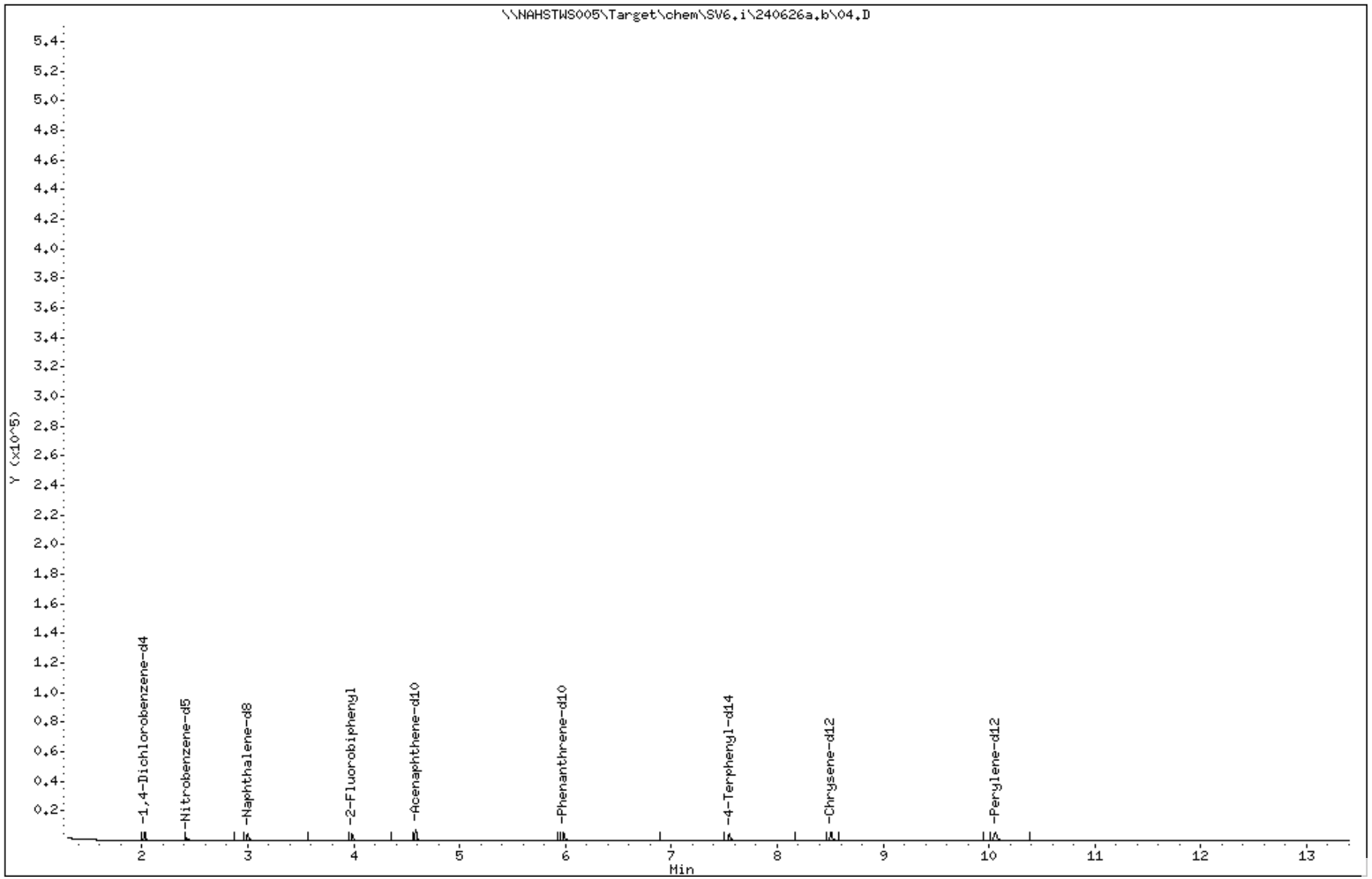
Sample Info: SIMDX-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\240626a.b\04.D

Date : 26-JUN-2024 15:48

Client ID:

Instrument: SV6.i

Sample Info: SIMDX-0.08

Purge Volume: 1000.0

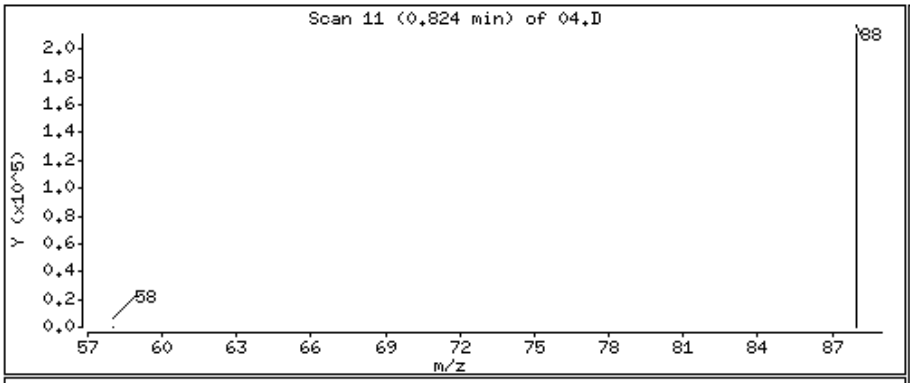
Operator: LG

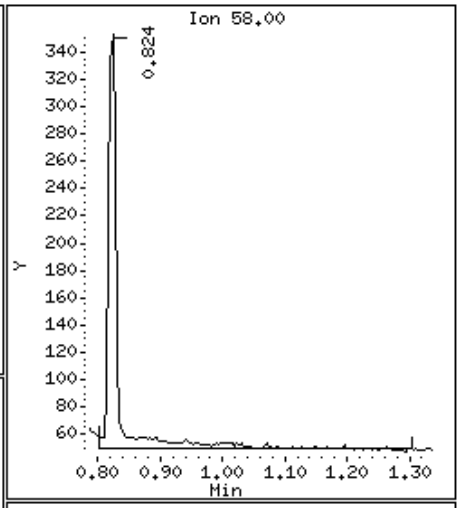
Column phase: RTX-5SIL MS

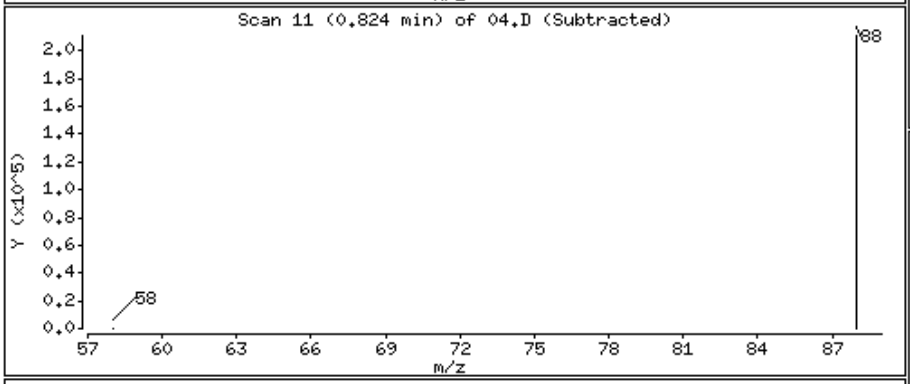
Column diameter: 0.28

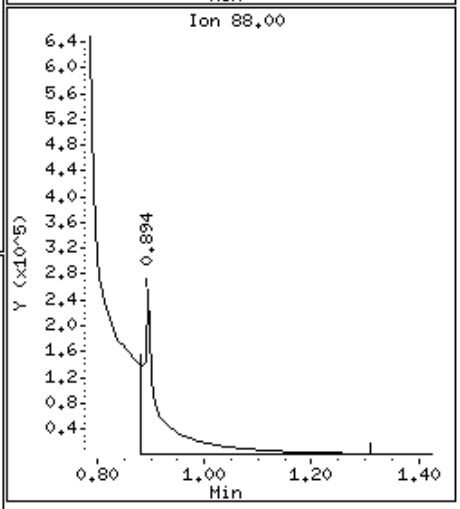
1 1,4-Dioxane

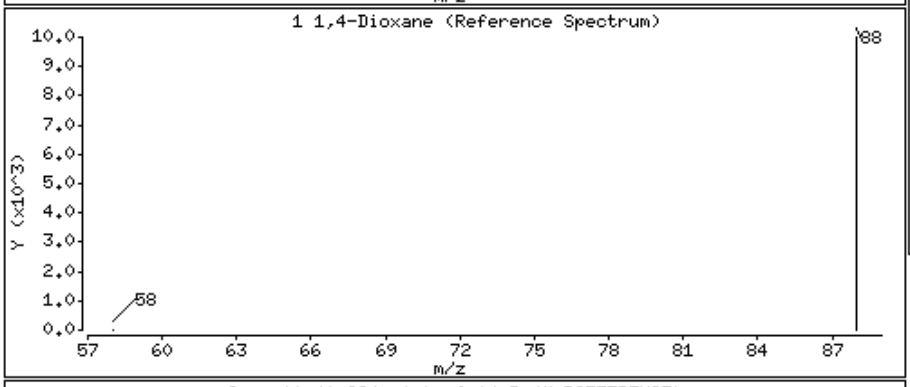
Concentration: 0.07870 ug/L

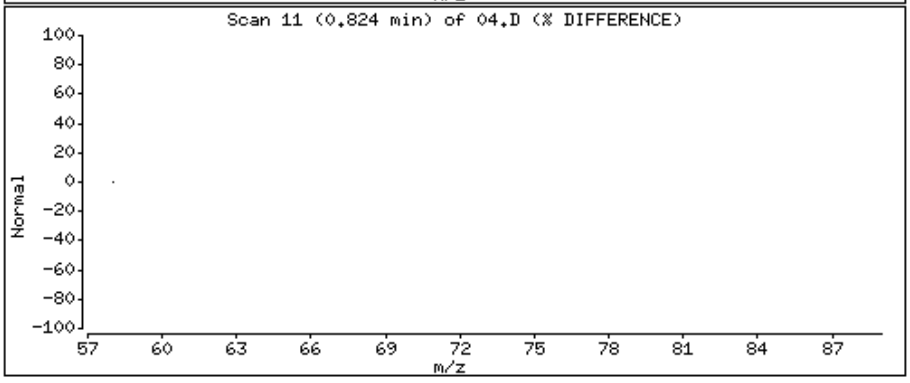












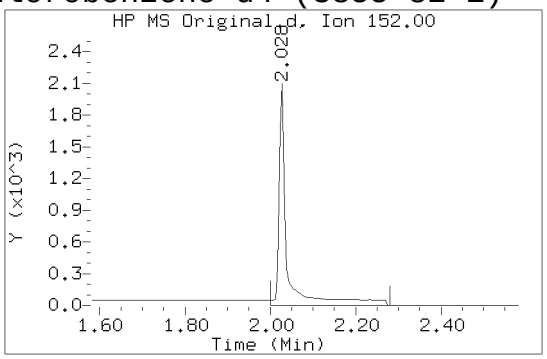
Data File : \\NAHSTWS005\Target\chem\SV6.i\240626a.b\04.D
Inj Date : 26-JUN-2024 15:48
InstruID : SV6.i
LabSampID : SIMDX-0.08

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

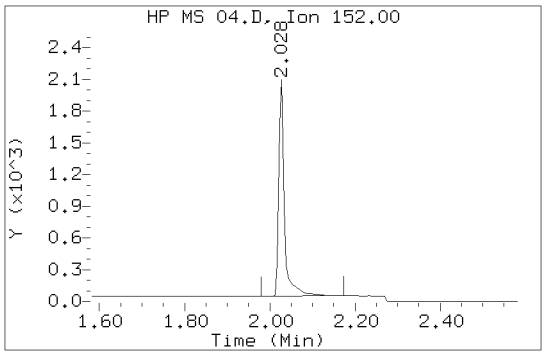
BEFORE

MASS
152
AREA
2748
HEIGHT
2096
26-Jun-2024
16:03
ALSHS
Server



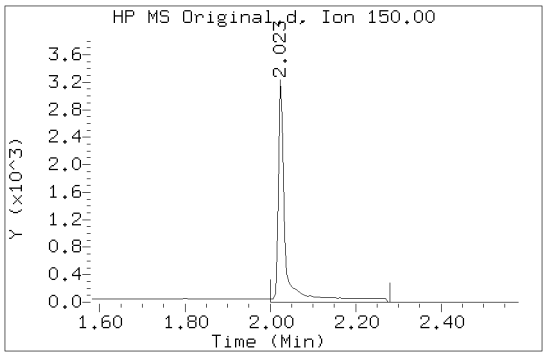
AFTER

MASS
152
AREA
1922
HEIGHT
2048
26-Jun-2024
16:10
ALSHS
Server



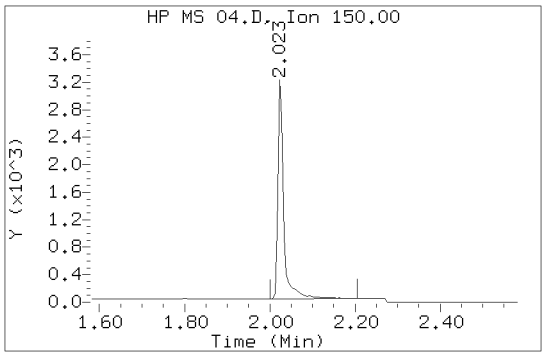
BEFORE

MASS
150
AREA
3905
HEIGHT
3234
26-Jun-2024
16:03
ALSHS
Server



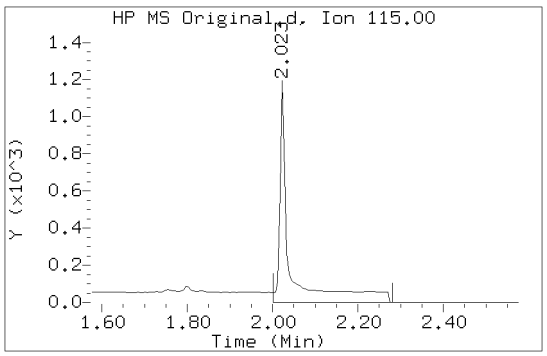
AFTER

MASS
150
AREA
3042
HEIGHT
3184
26-Jun-2024
16:10
ALSHS
Server



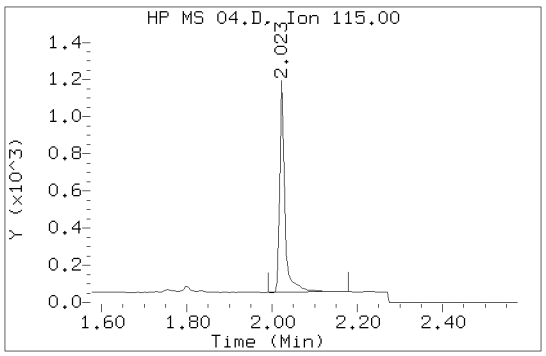
BEFORE

MASS
115
AREA
1891
HEIGHT
1194
26-Jun-2024
16:03
ALSHS
Server



AFTER

MASS
115
AREA
974
HEIGHT
1139
26-Jun-2024
16:10
ALSHS
Server

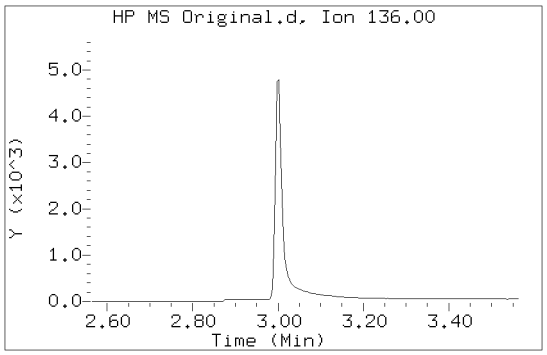


Naphthalene-d8 (1146-65-2)

Reason Code:

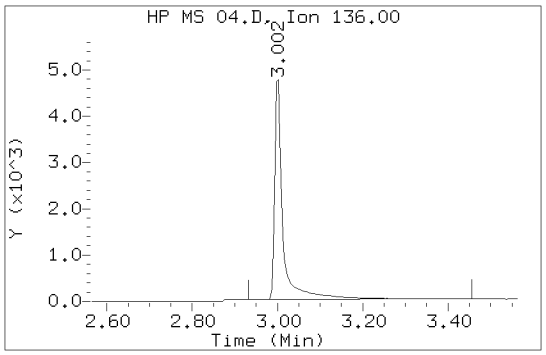
BEFORE

MASS
136
AREA
0
HEIGHT
0
26-Jun-2024
16:03
ALSHS
Server



AFTER

MASS
136
AREA
6343
HEIGHT
4743
26-Jun-2024
16:10
ALSHS
Server



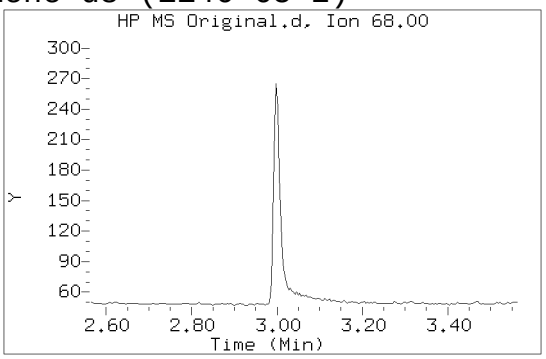
Data File : \\NAHSTWS005\Target\chem\SV6.i\240626a.b\04.D
Inj Date : 26-JUN-2024 15:48
InstruID : SV6.i
LabSampID : SIMDX-0.08

Naphthalene-d8 (1146-65-2)

Reason Code:

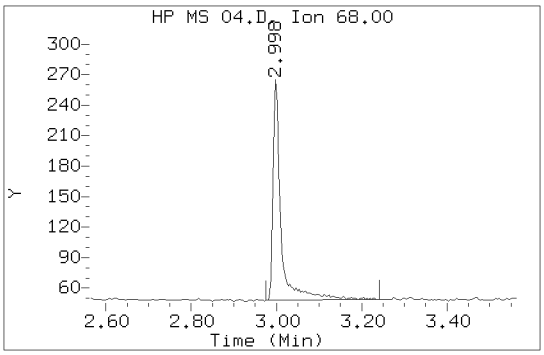
BEFORE

MASS
68
AREA
0
HEIGHT
0
26-Jun-2024
16:03
ALSHS
Server



AFTER

MASS
68
AREA
281
HEIGHT
216
26-Jun-2024
16:10
ALSHS
Server

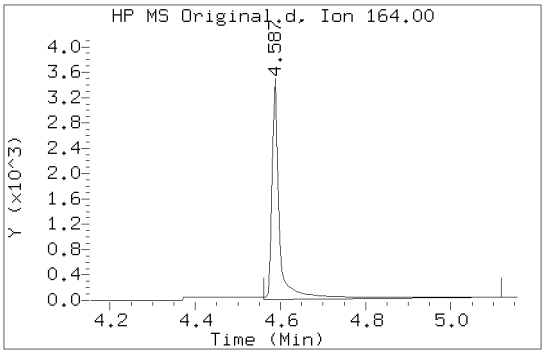


Acenaphthene-d10 (15067-26-2)

Reason Code:

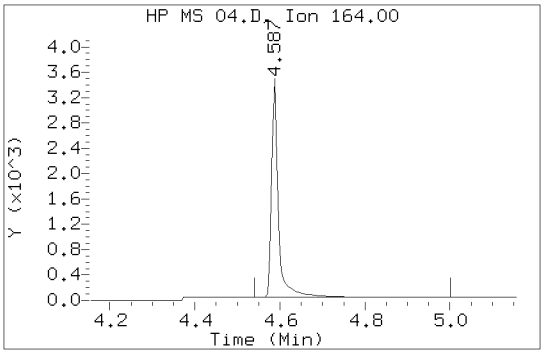
BEFORE

MASS
164
AREA
4435
HEIGHT
3484
26-Jun-2024
16:03
ALSHS
Server



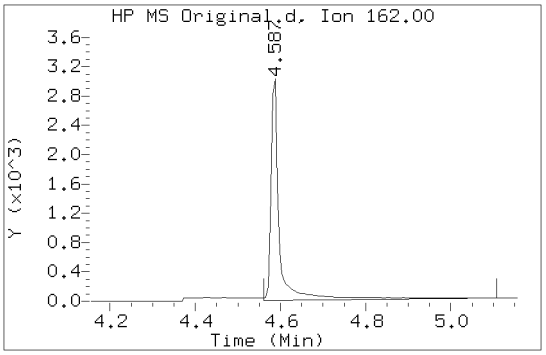
AFTER

MASS
164
AREA
3839
HEIGHT
3451
26-Jun-2024
16:10
ALSHS
Server



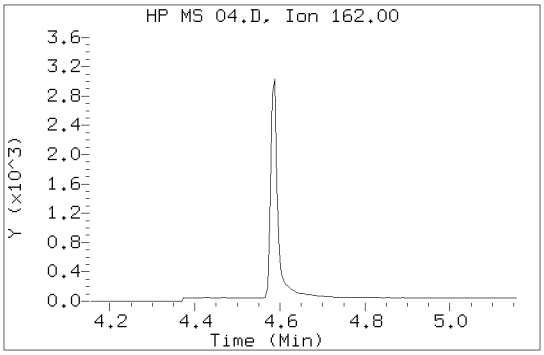
BEFORE

MASS
162
AREA
4128
HEIGHT
3020
26-Jun-2024
16:03
ALSHS
Server



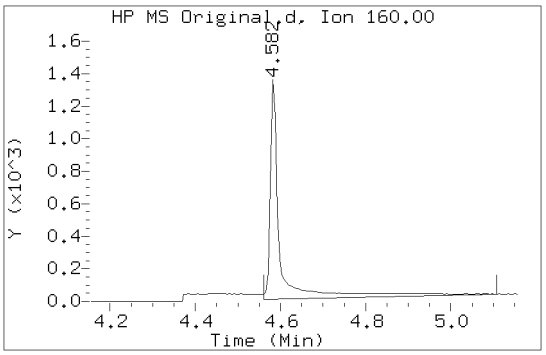
AFTER

MASS
162
AREA
3569
HEIGHT
2988
26-Jun-2024
16:10
ALSHS
Server



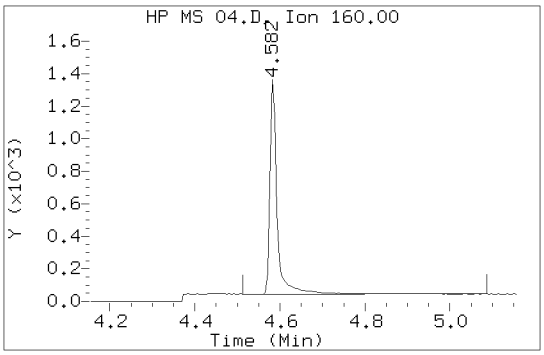
BEFORE

MASS
160
AREA
2089
HEIGHT
1350
26-Jun-2024
16:03
ALSHS
Server



AFTER

MASS
160
AREA
1508
HEIGHT
1317
26-Jun-2024
16:10
ALSHS
Server



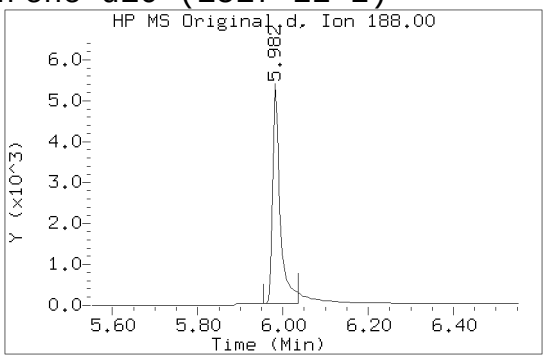
Data File : \\NAHSTWS005\Target\chem\SV6.i\240626a.b\04.D
Inj Date : 26-JUN-2024 15:48
InstruID : SV6.i
LabSampID : SIMDX-0.08

Phenanthrene-d10 (1517-22-2)

Reason Code:

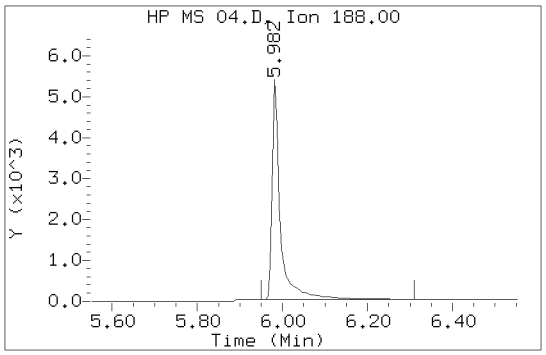
BEFORE

MASS
188
AREA
6621
HEIGHT
5371
26-Jun-2024
16:03
ALSHS
Server



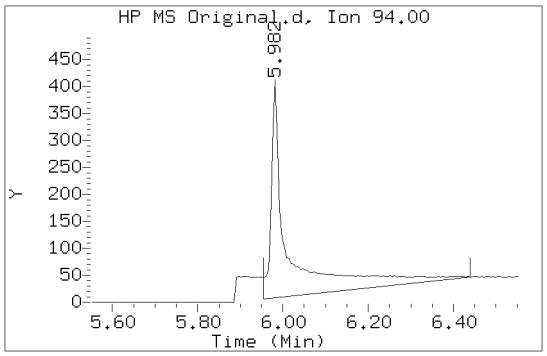
AFTER

MASS
188
AREA
7288
HEIGHT
5370
26-Jun-2024
16:10
ALSHS
Server



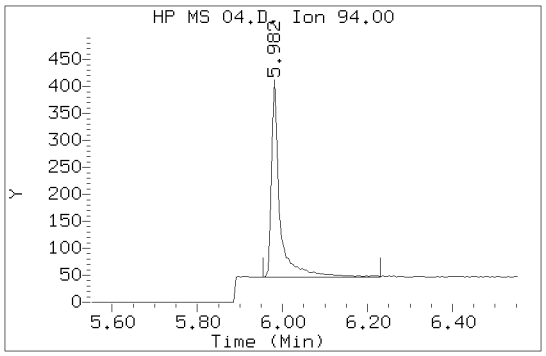
BEFORE

MASS
94
AREA
1114
HEIGHT
403
26-Jun-2024
16:03
ALSHS
Server



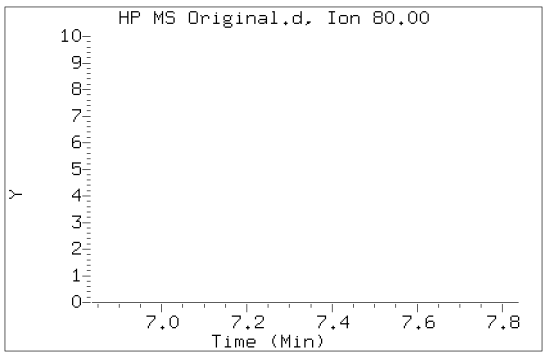
AFTER

MASS
94
AREA
504
HEIGHT
365
26-Jun-2024
16:10
ALSHS
Server



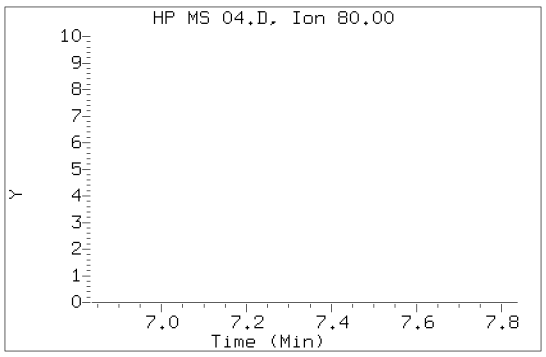
BEFORE

MASS
80
AREA
0
HEIGHT
0
26-Jun-2024
16:03
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
26-Jun-2024
16:10
ALSHS
Server

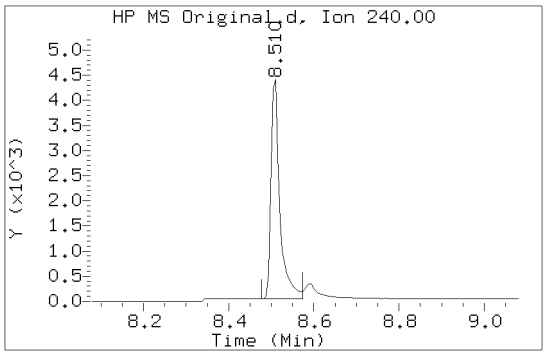


Chrysene-d12 (1719-03-5)

Reason Code:

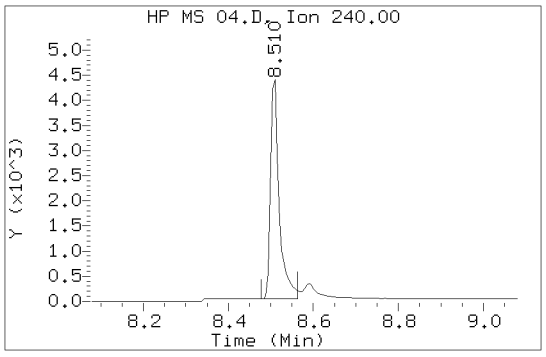
BEFORE

MASS
240
AREA
6256
HEIGHT
4361
26-Jun-2024
16:03
ALSHS
Server



AFTER

MASS
240
AREA
6165
HEIGHT
4361
26-Jun-2024
16:10
ALSHS
Server

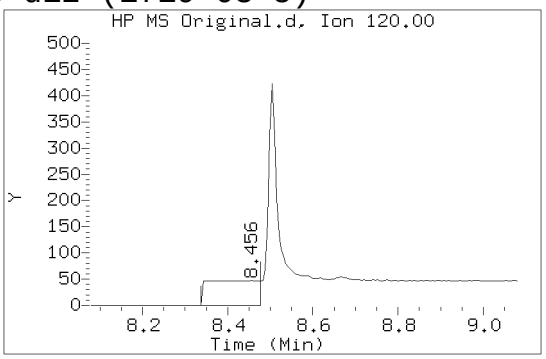


Data File : \\NAHSTWS005\Target\chem\SV6.i\240626a.b\04.D
Inj Date : 26-JUN-2024 15:48
InstruID : SV6.i
LabSampID : SIMDX-0.08

Chrysene-d12 (1719-03-5)

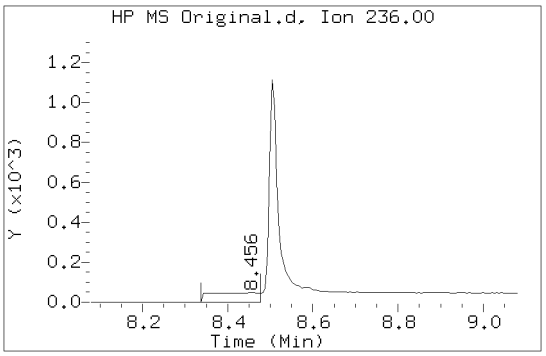
BEFORE

MASS
120
AREA
392
HEIGHT
48
26-Jun-2024
16:03
ALSHS
Server



BEFORE

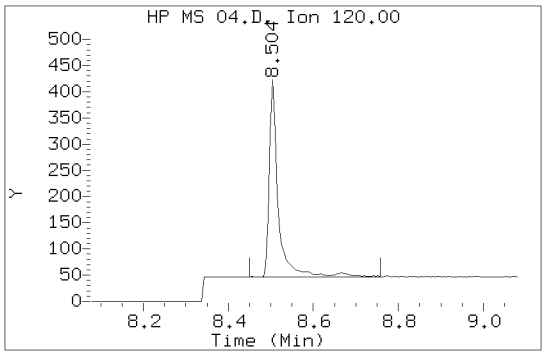
MASS
236
AREA
383
HEIGHT
48
26-Jun-2024
16:03
ALSHS
Server



Reason Code:

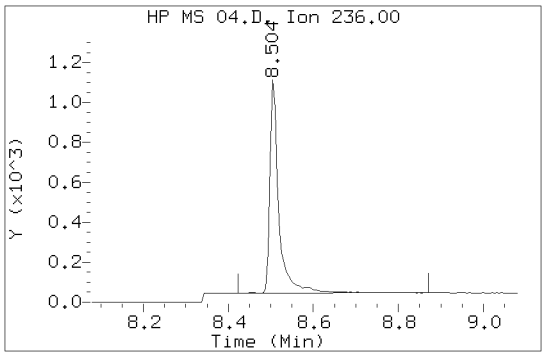
AFTER

MASS
120
AREA
550
HEIGHT
376
26-Jun-2024
16:10
ALSHS
Server



AFTER

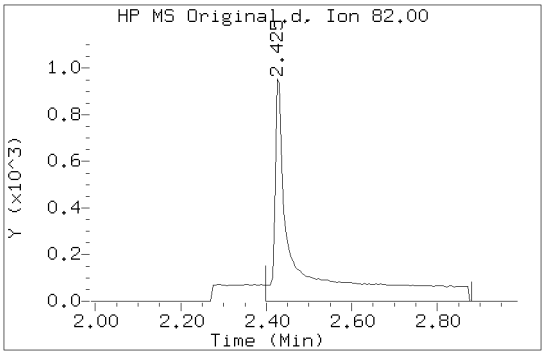
MASS
236
AREA
1561
HEIGHT
1067
26-Jun-2024
16:10
ALSHS
Server



Nitrobenzene-d5 (4165-60-0)

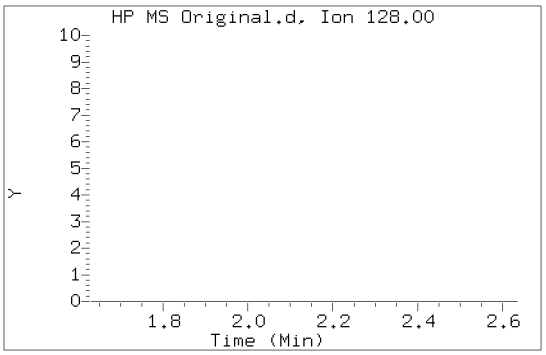
BEFORE

MASS
82
AREA
3315
HEIGHT
954
26-Jun-2024
16:03
ALSHS
Server



BEFORE

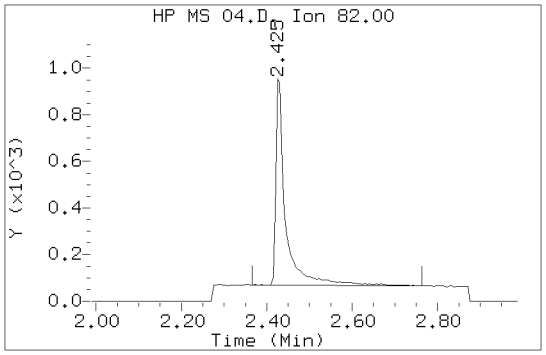
MASS
128
AREA
0
HEIGHT
0
26-Jun-2024
16:03
ALSHS
Server



Reason Code:

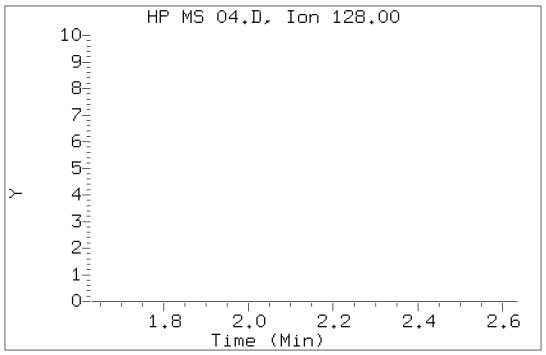
AFTER

MASS
82
AREA
1416
HEIGHT
886
26-Jun-2024
16:10
ALSHS
Server



AFTER

MASS
128
AREA
0
HEIGHT
0
26-Jun-2024
16:10
ALSHS
Server

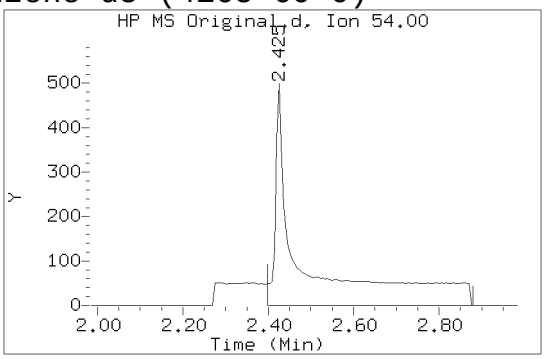


Data File : \\NAHSTWS005\Target\chem\SV6.i\240626a.b\04.D
Inj Date : 26-JUN-2024 15:48
InstruID : SV6.i
LabSampID : SIMDX-0.08

Nitrobenzene-d5 (4165-60-0)

BEFORE

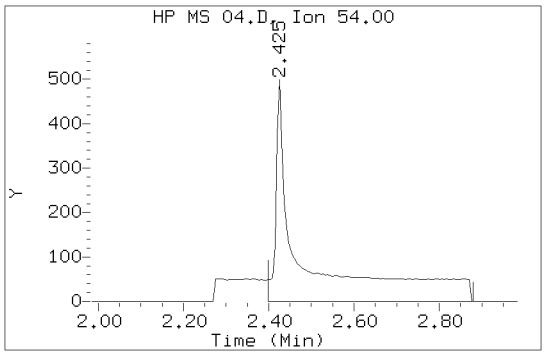
MASS
54
AREA
2073
HEIGHT
499
26-Jun-2024
16:03
ALSHS
Server



Reason Code:

AFTER

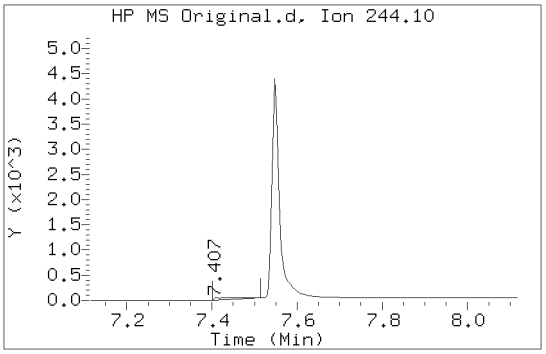
MASS
54
AREA
2073
HEIGHT
499
26-Jun-2024
16:10
ALSHS
Server



4-Terphenyl-d14 (1718-51-0)

BEFORE

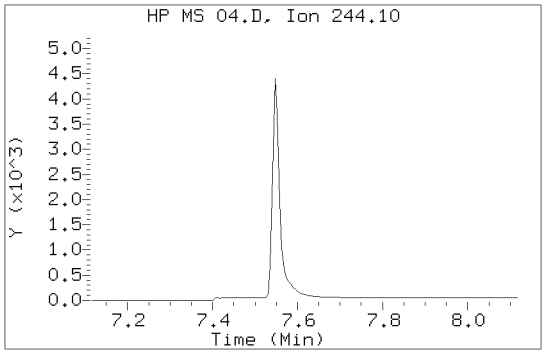
MASS
244.1
AREA
144
HEIGHT
42
26-Jun-2024
16:03
ALSHS
Server



Reason Code:

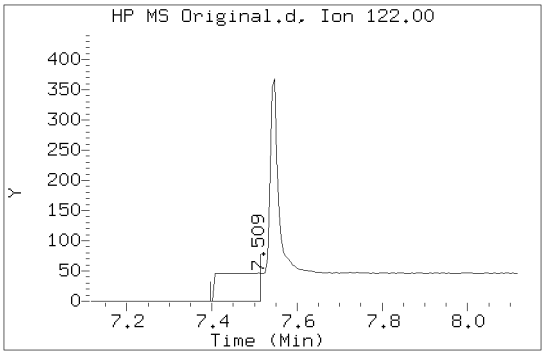
AFTER

MASS
244.1
AREA
8087
HEIGHT
4401
26-Jun-2024
16:10
ALSHS
Server



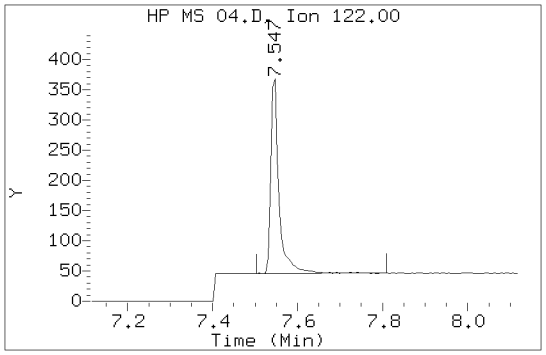
BEFORE

MASS
122
AREA
312
HEIGHT
47
26-Jun-2024
16:03
ALSHS
Server



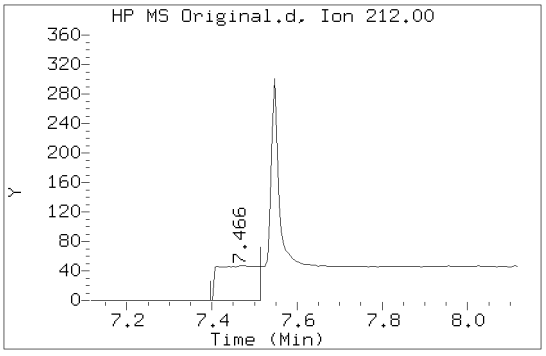
AFTER

MASS
122
AREA
422
HEIGHT
321
26-Jun-2024
16:10
ALSHS
Server



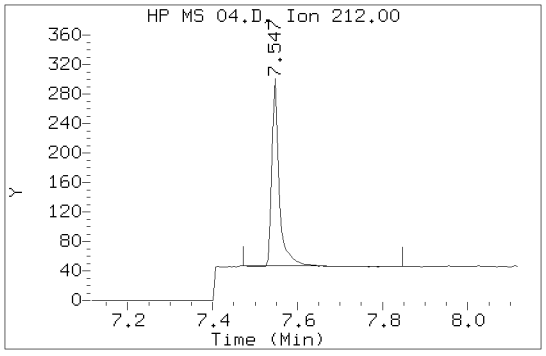
BEFORE

MASS
212
AREA
310
HEIGHT
47
26-Jun-2024
16:03
ALSHS
Server



AFTER

MASS
212
AREA
297
HEIGHT
254
26-Jun-2024
16:10
ALSHS
Server



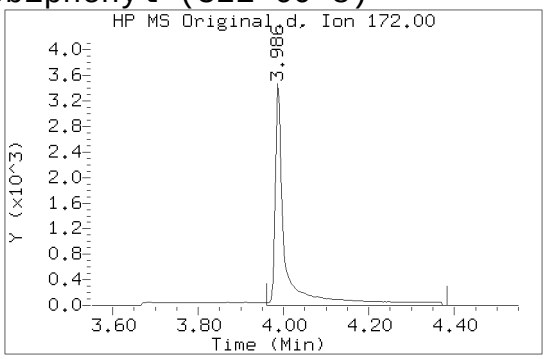
Data File : \\NAHSTWS005\Target\chem\SV6.i\240626a.b\04.D
Inj Date : 26-JUN-2024 15:48
InstruID : SV6.i
LabSampID : SIMDX-0.08

2-Fluorobiphenyl (321-60-8)

Reason Code:

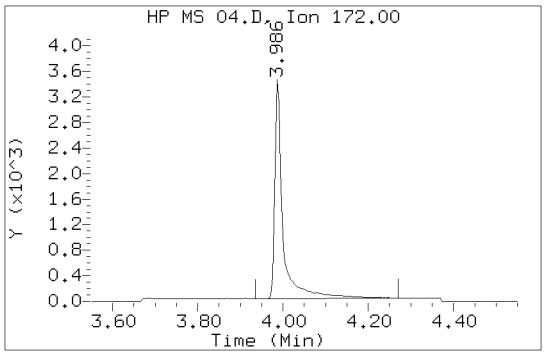
BEFORE

MASS
172
AREA
5742
HEIGHT
3471
26-Jun-2024
16:03
ALSHS
Server



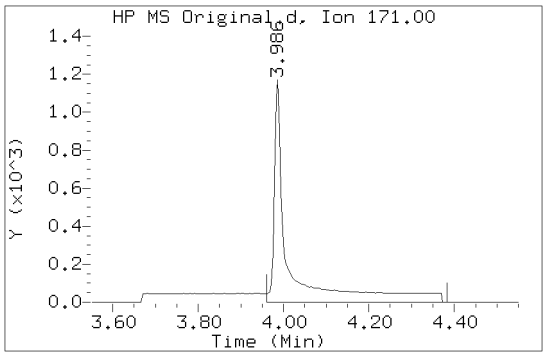
AFTER

MASS
172
AREA
4468
HEIGHT
3424
26-Jun-2024
16:10
ALSHS
Server



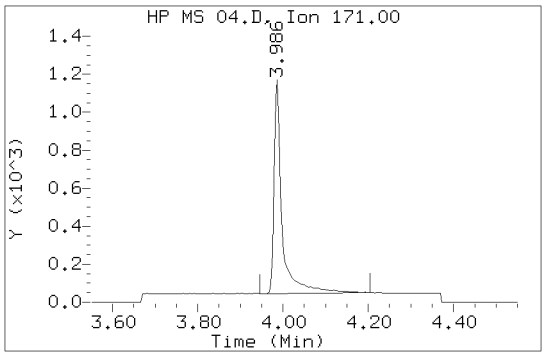
BEFORE

MASS
171
AREA
2663
HEIGHT
1170
26-Jun-2024
16:03
ALSHS
Server



AFTER

MASS
171
AREA
1455
HEIGHT
1124
26-Jun-2024
16:10
ALSHS
Server



Data File: \\NAHSTWS005\Target\chem\SV6.i\240626a.b\17.D Page 1
Report Date: 27-Jun-2024 14:58

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240626a.b\17.D
Lab Smp Id: HS24060747-01
Inj Date : 26-JUN-2024 20:14
Operator : LG Inst ID: SV6.i
Smp Info : HS24060747-01
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240626a.b\DXSIM.m
Meth Date : 22-Jun-2024 12:47 SV6.i Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 17
Dil Factor: 50.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7015

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	50.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	2.022	2.080	(1.000)	1577	0.10000	(aM)
* 45 Naphthalene-d8	136	3.001	3.063	(1.000)	4796	0.10000	(M)
* 86 Acenaphthene-d10	164	4.587	4.654	(1.000)	3047	0.10000	(M)
* 126 Phenanthrene-d10	188	5.987	6.054	(1.000)	5867	0.10000	(M)
* 182 Chrysene-d12	240	8.509	8.581	(1.000)	5447	0.10000	(M)
* 198 Perylene-d12	264	10.064	10.174	(1.000)	5742	0.10000	(M)
1 1,4-Dioxane	58	0.809	0.834	(0.400)	567	0.16786	8.393(M)

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\SV6.i\240626a.b\17.D

Date : 26-JUN-2024 20:14

Client ID:

Instrument: SV6.i

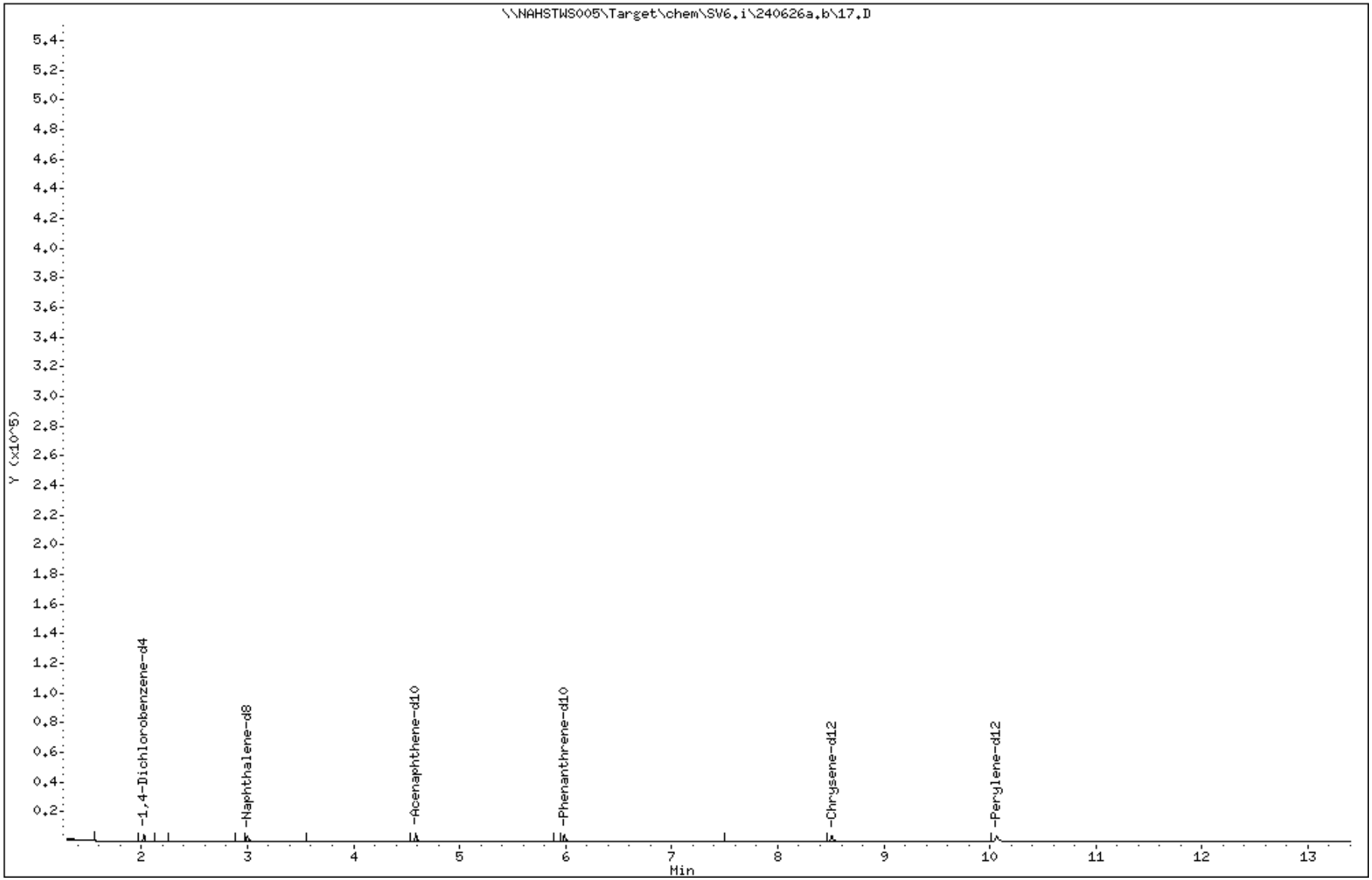
Sample Info: HS24060747-01

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\240626a.b\17.D Page 2

Date : 26-JUN-2024 20:14

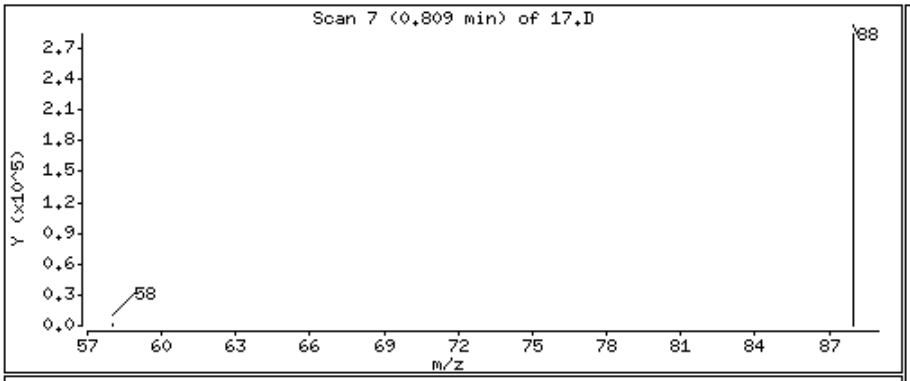
Client ID: Instrument: SV6.i

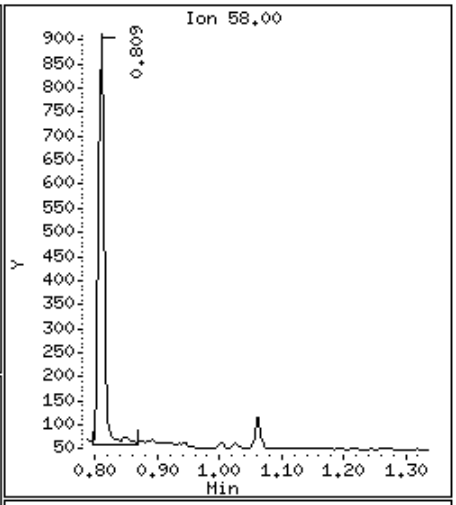
Sample Info: HS24060747-01

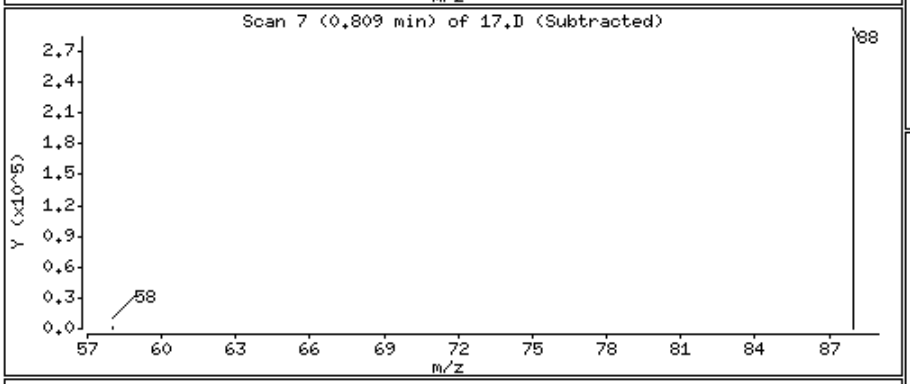
Purge Volume: 1000.0 Operator: LG

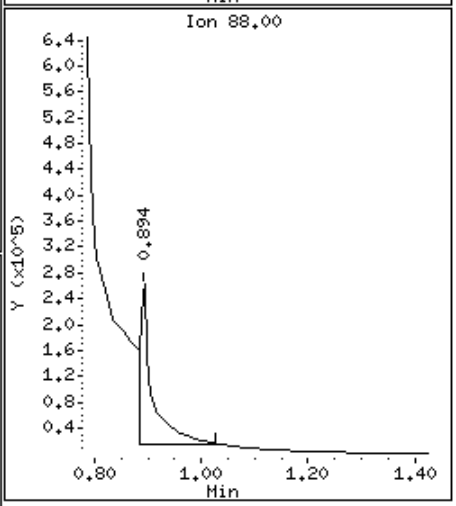
Column phase: RTX-5SIL MS Column diameter: 0.28

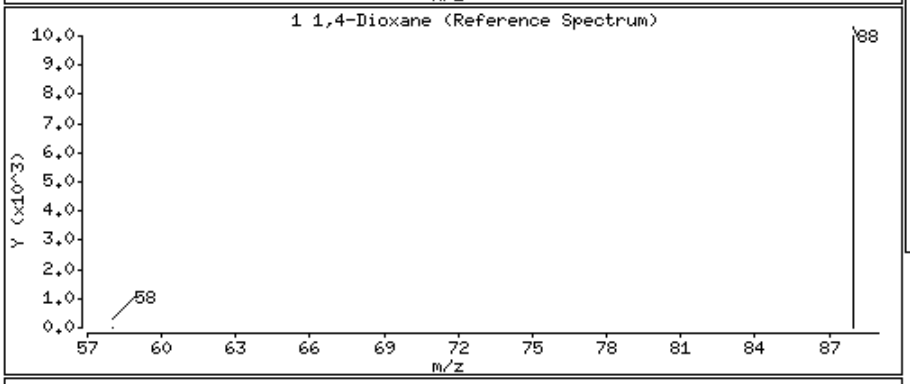
1 1,4-Dioxane Concentration: 8.393 ug/L

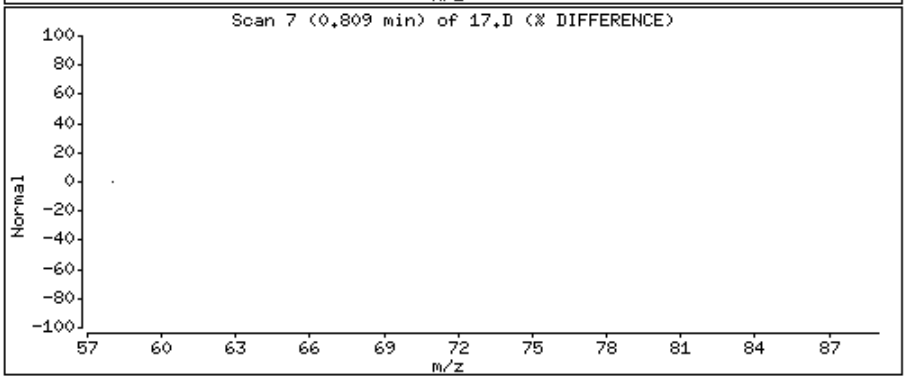












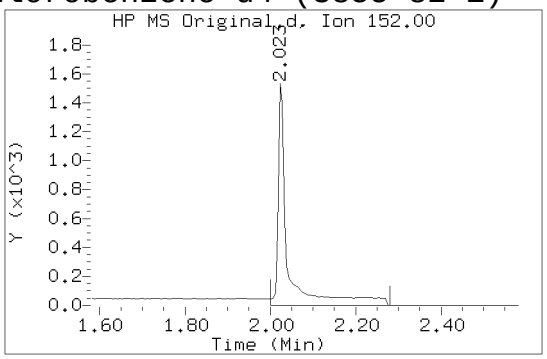
Data File : \\NAHSTWS005\Target\chem\SV6.i\240626a.b\17.D
Inj Date : 26-JUN-2024 20:14
InstruID : SV6.i
LabSampID : HS24060747-01

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

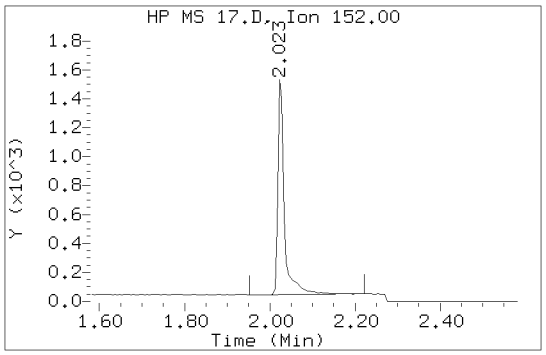
BEFORE

MASS
152
AREA
2386
HEIGHT
1532
26-Jun-2024
20:29
ALSHS
Server



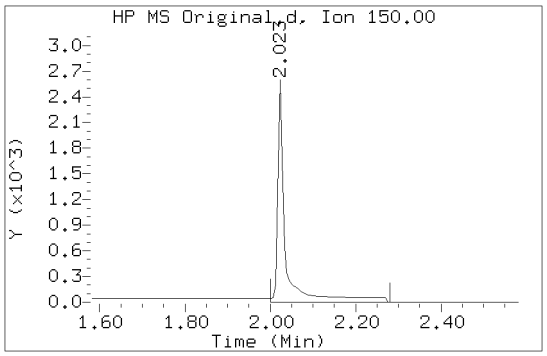
AFTER

MASS
152
AREA
1577
HEIGHT
1484
27-Jun-2024
14:58
ALSHS
Server



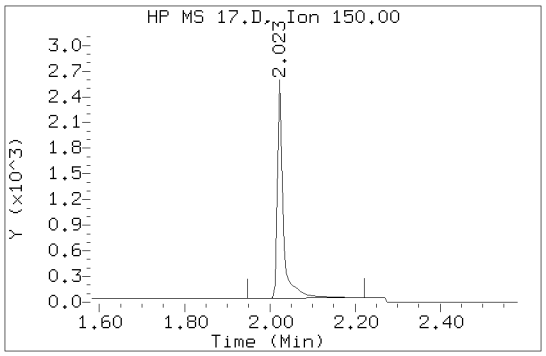
BEFORE

MASS
150
AREA
3298
HEIGHT
2598
26-Jun-2024
20:29
ALSHS
Server



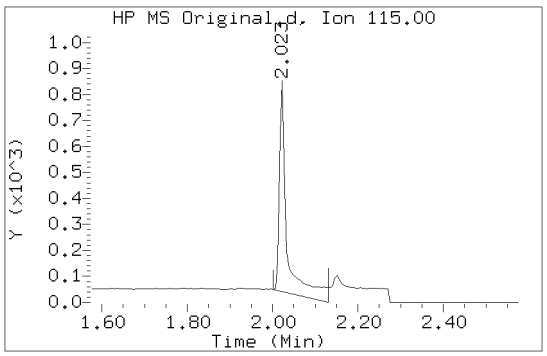
AFTER

MASS
150
AREA
2458
HEIGHT
2549
27-Jun-2024
14:58
ALSHS
Server



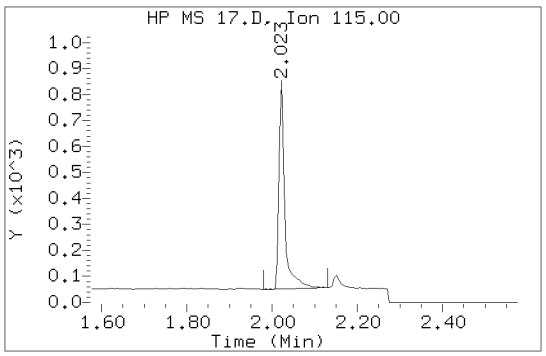
BEFORE

MASS
115
AREA
1004
HEIGHT
811
26-Jun-2024
20:29
ALSHS
Server



AFTER

MASS
115
AREA
776
HEIGHT
801
27-Jun-2024
14:58
ALSHS
Server

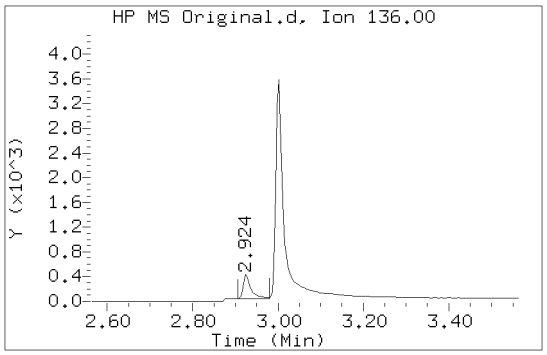


Naphthalene-d8 (1146-65-2)

Reason Code:

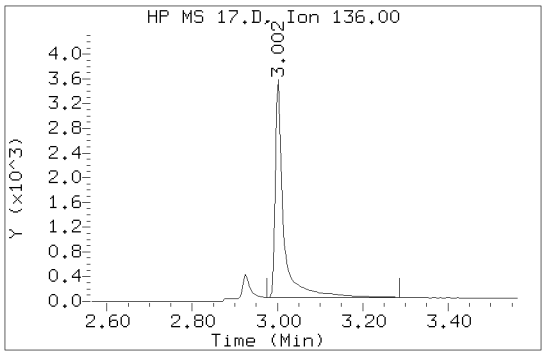
BEFORE

MASS
136
AREA
485
HEIGHT
389
26-Jun-2024
20:29
ALSHS
Server



AFTER

MASS
136
AREA
4796
HEIGHT
3523
27-Jun-2024
14:58
ALSHS
Server



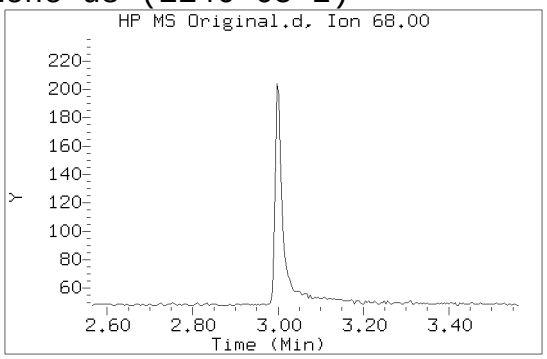
Data File : \\NAHSTWS005\Target\chem\SV6.i\240626a.b\17.D
Inj Date : 26-JUN-2024 20:14
InstruID : SV6.i
LabSampID : HS24060747-01

Naphthalene-d8 (1146-65-2)

Reason Code:

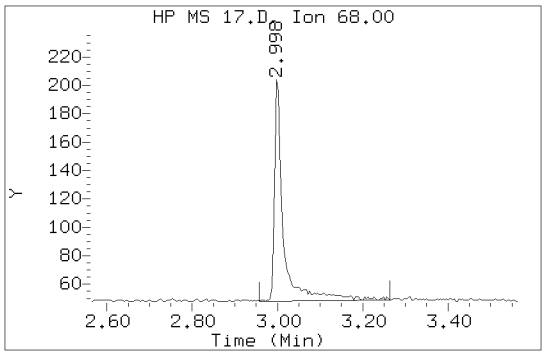
BEFORE

MASS
68
AREA
0
HEIGHT
0
26-Jun-2024
20:29
ALSHS
Server



AFTER

MASS
68
AREA
228
HEIGHT
155
27-Jun-2024
14:58
ALSHS
Server

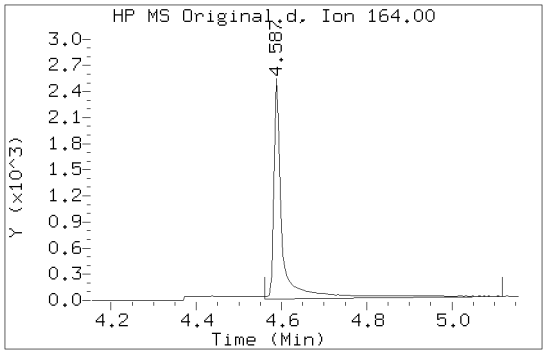


Acenaphthene-d10 (15067-26-2)

Reason Code:

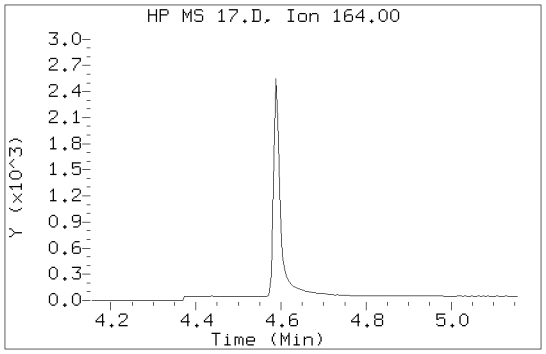
BEFORE

MASS
164
AREA
3656
HEIGHT
2533
26-Jun-2024
20:29
ALSHS
Server



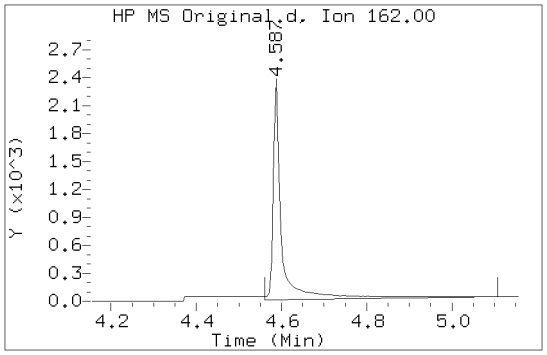
AFTER

MASS
164
AREA
3047
HEIGHT
2500
27-Jun-2024
14:58
ALSHS
Server



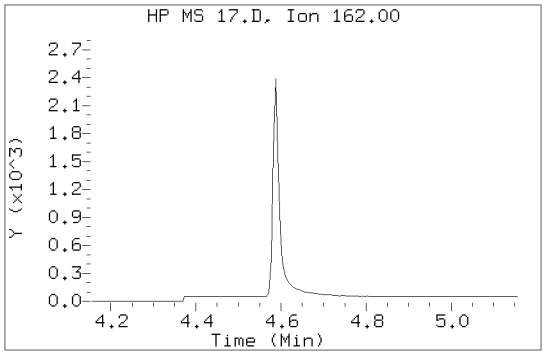
BEFORE

MASS
162
AREA
3393
HEIGHT
2372
26-Jun-2024
20:29
ALSHS
Server



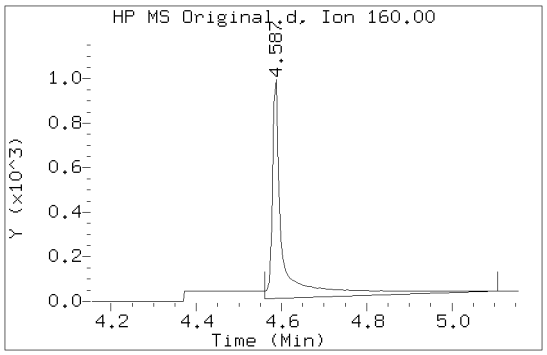
AFTER

MASS
162
AREA
2856
HEIGHT
2340
27-Jun-2024
14:58
ALSHS
Server



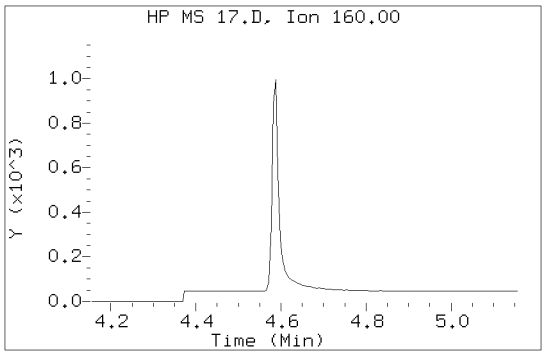
BEFORE

MASS
160
AREA
1767
HEIGHT
981
26-Jun-2024
20:29
ALSHS
Server



AFTER

MASS
160
AREA
1235
HEIGHT
949
27-Jun-2024
14:58
ALSHS
Server



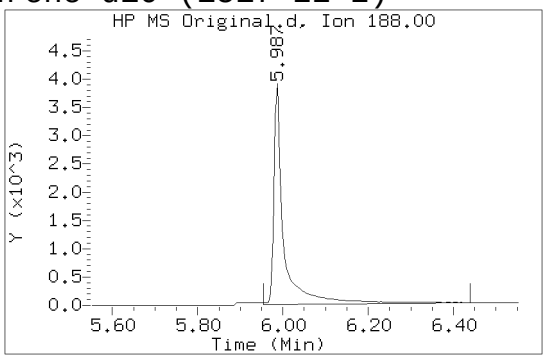
Data File : \\NAHSTWS005\Target\chem\SV6.i\240626a.b\17.D
Inj Date : 26-JUN-2024 20:14
InstruID : SV6.i
LabSampID : HS24060747-01

Phenanthrene-d10 (1517-22-2)

Reason Code:

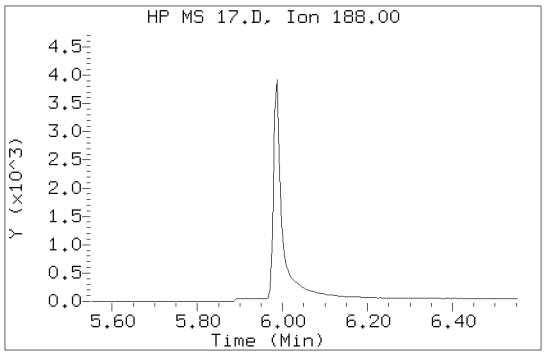
BEFORE

MASS
188
AREA
6495
HEIGHT
3910
26-Jun-2024
20:29
ALSHS
Server



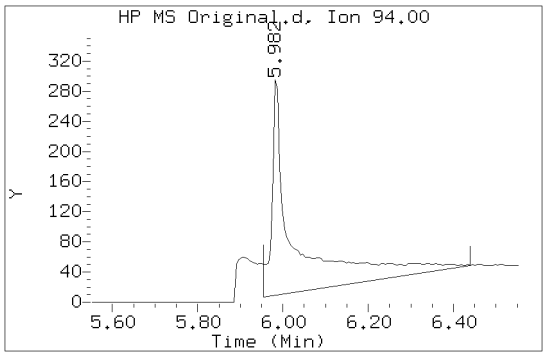
AFTER

MASS
188
AREA
5867
HEIGHT
3871
27-Jun-2024
14:58
ALSHS
Server



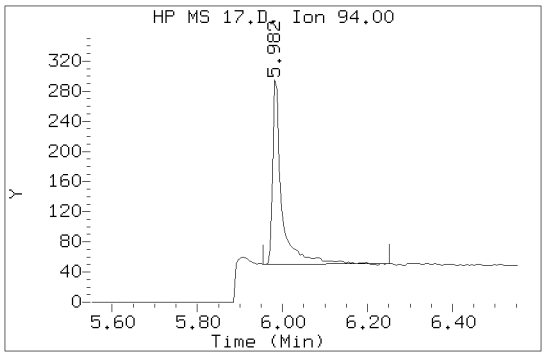
BEFORE

MASS
94
AREA
1031
HEIGHT
285
26-Jun-2024
20:29
ALSHS
Server



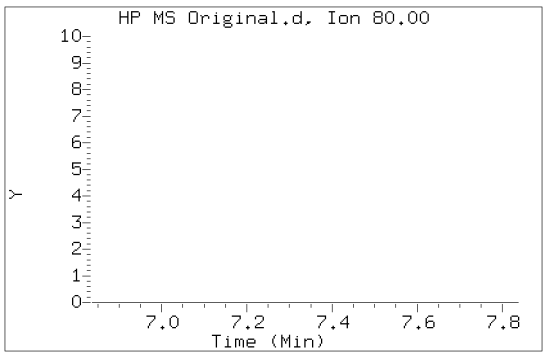
AFTER

MASS
94
AREA
375
HEIGHT
244
27-Jun-2024
14:58
ALSHS
Server



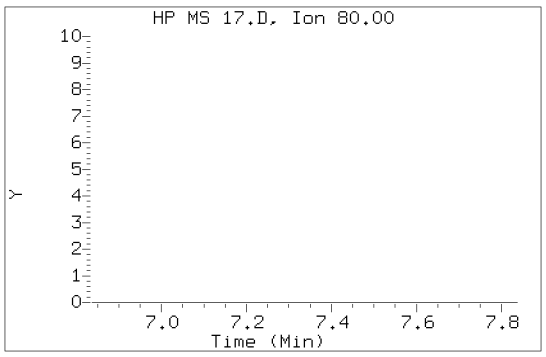
BEFORE

MASS
80
AREA
0
HEIGHT
0
26-Jun-2024
20:29
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
27-Jun-2024
14:58
ALSHS
Server

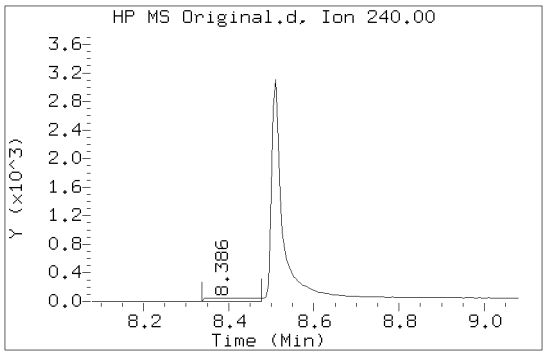


Chrysene-d12 (1719-03-5)

Reason Code:

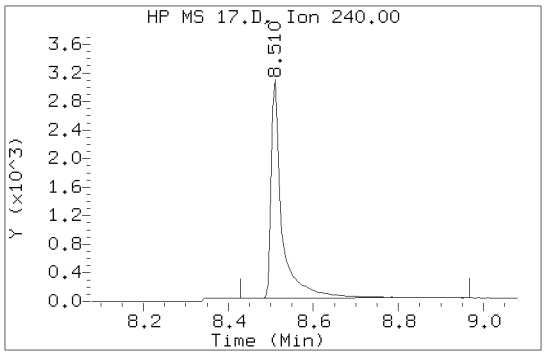
BEFORE

MASS
240
AREA
378
HEIGHT
46
26-Jun-2024
20:29
ALSHS
Server



AFTER

MASS
240
AREA
5447
HEIGHT
3059
27-Jun-2024
14:58
ALSHS
Server



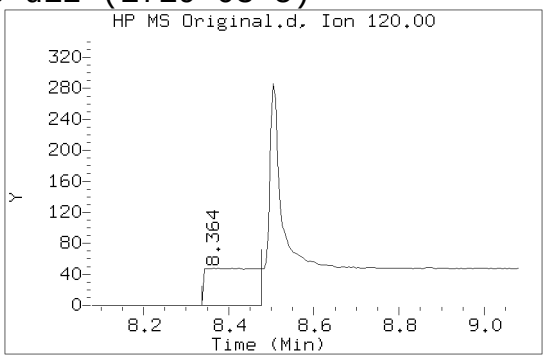
Data File : \\NAHSTWS005\Target\chem\SV6.i\240626a.b\17.D
Inj Date : 26-JUN-2024 20:14
InstruID : SV6.i
LabSampID : HS24060747-01

Chrysene-d12 (1719-03-5)

Reason Code:

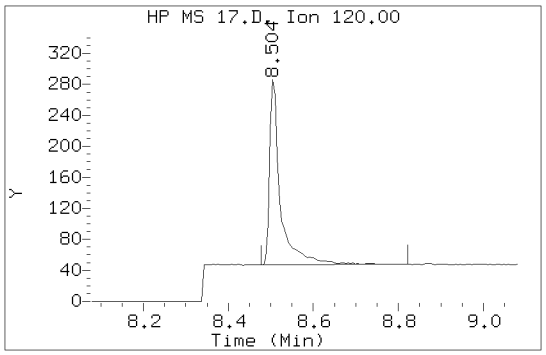
BEFORE

MASS
120
AREA
395
HEIGHT
48
26-Jun-2024
20:29
ALSHS
Server



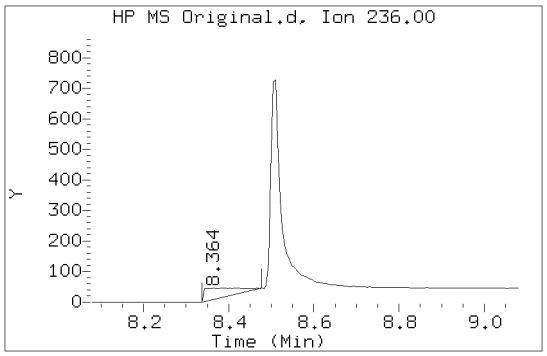
AFTER

MASS
120
AREA
421
HEIGHT
238
27-Jun-2024
14:58
ALSHS
Server



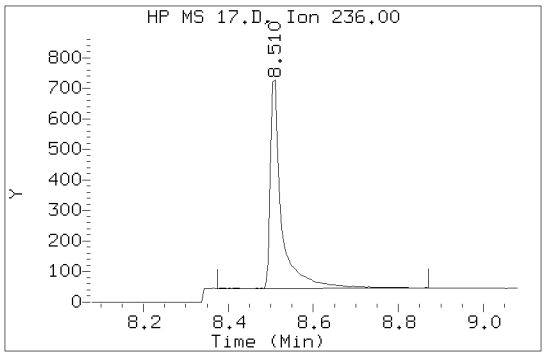
BEFORE

MASS
236
AREA
180
HEIGHT
37
26-Jun-2024
20:29
ALSHS
Server



AFTER

MASS
236
AREA
1253
HEIGHT
682
27-Jun-2024
14:58
ALSHS
Server

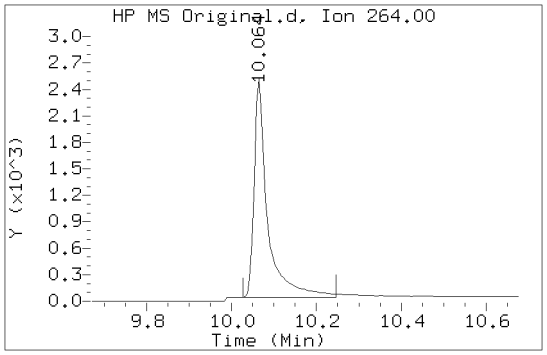


Perylene-d12 (1520-96-3)

Reason Code:

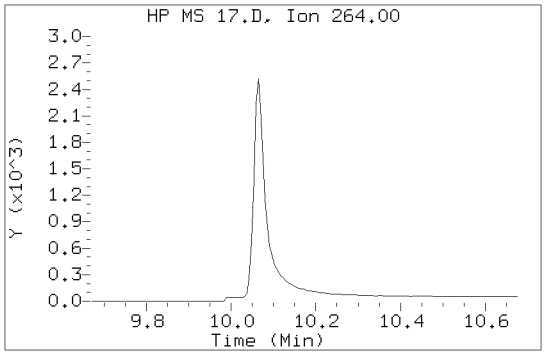
BEFORE

MASS
264
AREA
5434
HEIGHT
2473
26-Jun-2024
20:29
ALSHS
Server



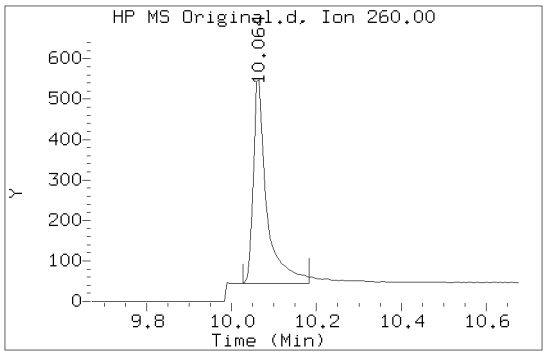
AFTER

MASS
264
AREA
5742
HEIGHT
2473
27-Jun-2024
14:58
ALSHS
Server



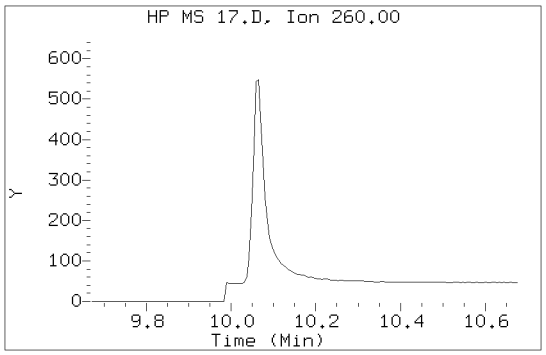
BEFORE

MASS
260
AREA
1105
HEIGHT
503
26-Jun-2024
20:29
ALSHS
Server



AFTER

MASS
260
AREA
1205
HEIGHT
502
27-Jun-2024
14:58
ALSHS
Server



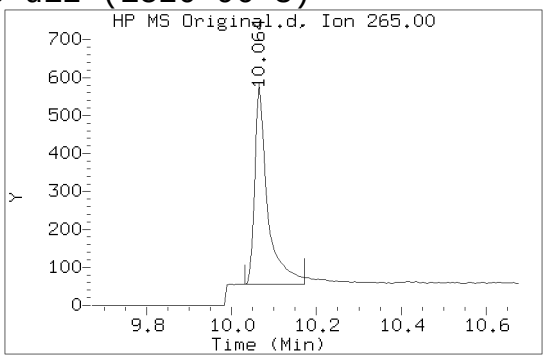
Data File : \\NAHSTWS005\Target\chem\SV6.i\240626a.b\17.D
Inj Date : 26-JUN-2024 20:14
InstruID : SV6.i
LabSampID : HS24060747-01

Perylene-d12 (1520-96-3)

Reason Code:

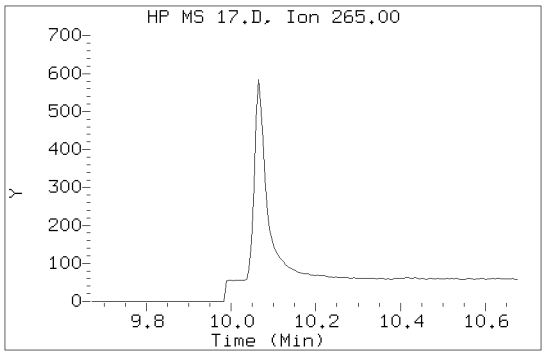
BEFORE

MASS
265
AREA
1110
HEIGHT
529
26-Jun-2024
20:29
ALSHS
Server



AFTER

MASS
265
AREA
1161
HEIGHT
527
27-Jun-2024
14:58
ALSHS
Server

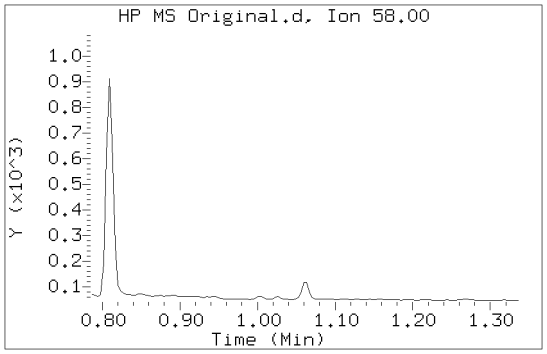


1,4-Dioxane ()

Reason Code:

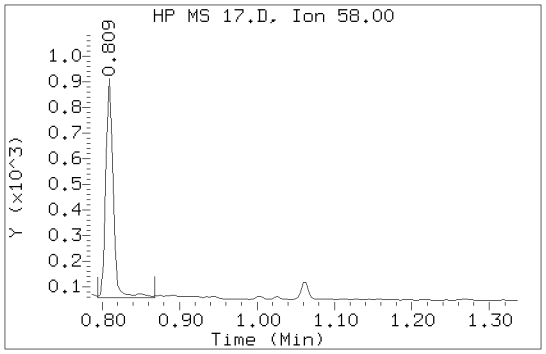
BEFORE

MASS
58
AREA
0
HEIGHT
0
26-Jun-2024
20:29
ALSHS
Server



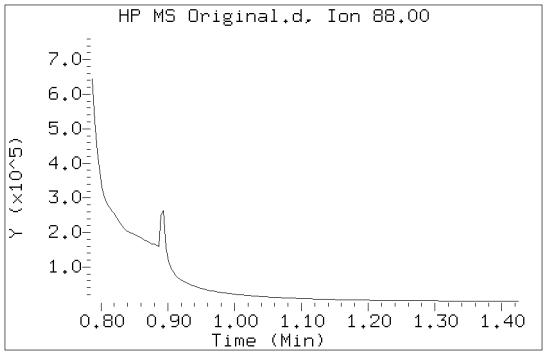
AFTER

MASS
58
AREA
567
HEIGHT
855
27-Jun-2024
14:58
ALSHS
Server



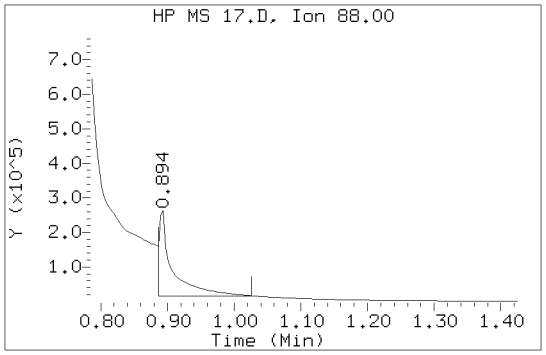
BEFORE

MASS
88
AREA
0
HEIGHT
0
26-Jun-2024
20:29
ALSHS
Server



AFTER

MASS
88
AREA
356924
HEIGHT
247640
27-Jun-2024
14:58
ALSHS
Server



Data File: \\NAHSTWS005\Target\chem\SV6.i\240626a.b\18.D Page 1
Report Date: 27-Jun-2024 14:59

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240626a.b\18.D
Lab Smp Id: HS24060747-02
Inj Date : 26-JUN-2024 20:32
Operator : LG Inst ID: SV6.i
Smp Info : HS24060747-02
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240626a.b\DXSIM.m
Meth Date : 22-Jun-2024 12:47 SV6.i Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 18
Dil Factor: 50.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7015

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	50.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	2.028	2.080	(1.000)	1676	0.10000	(aM)
* 45 Naphthalene-d8	136	3.001	3.063	(1.000)	5043	0.10000	(M)
* 86 Acenaphthene-d10	164	4.587	4.654	(1.000)	3244	0.10000	(M)
* 126 Phenanthrene-d10	188	5.987	6.054	(1.000)	6362	0.10000	(M)
* 182 Chrysene-d12	240	8.509	8.581	(1.000)	6071	0.10000	(M)
* 198 Perylene-d12	264	10.064	10.174	(1.000)	6121	0.10000	(M)
1 1,4-Dioxane	58	0.823	0.834	(0.406)	666	0.18552	9.276(Q)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240626a.b\18.D

Date : 26-JUN-2024 20:32

Client ID:

Instrument: SV6.i

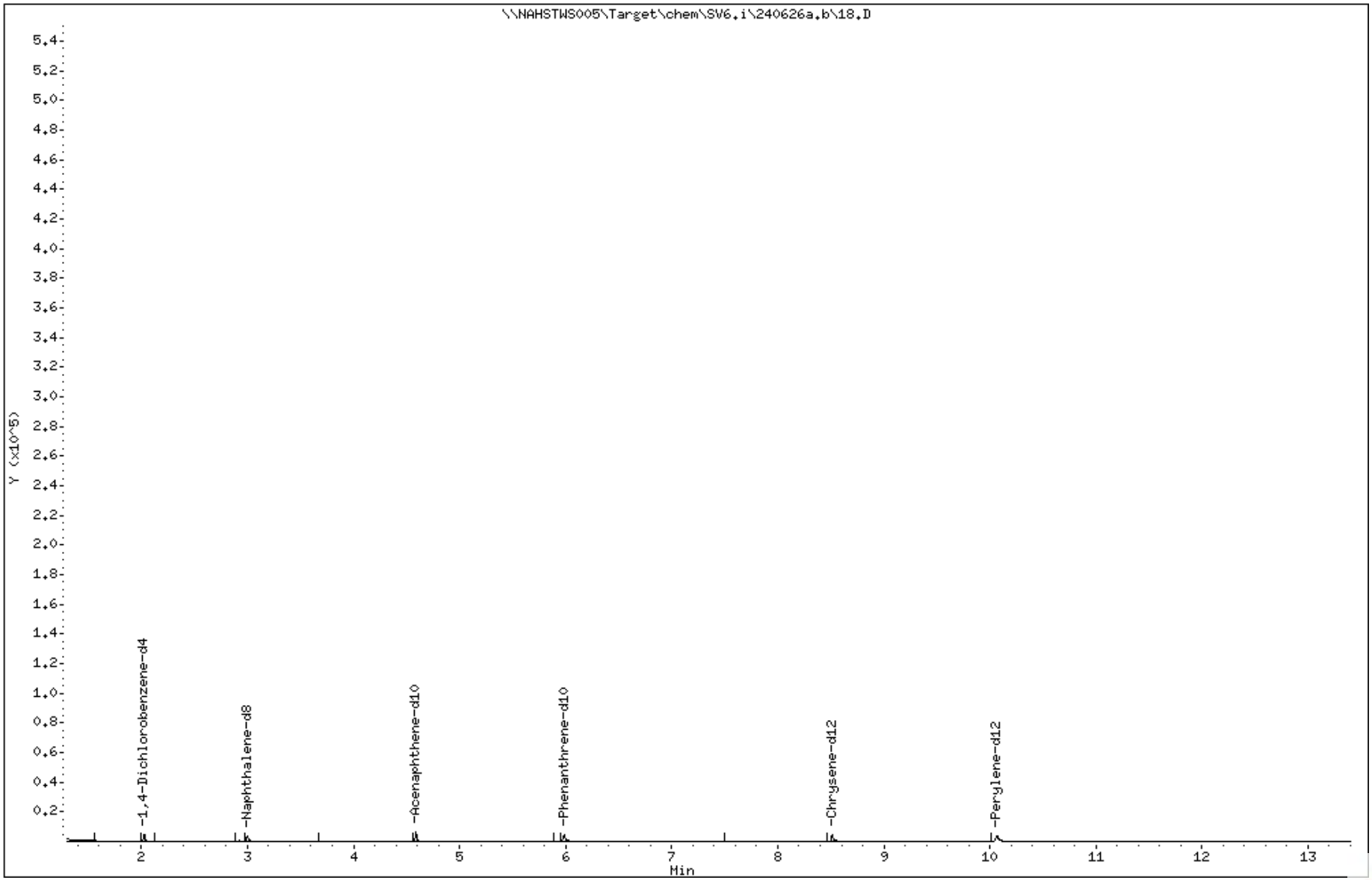
Sample Info: HS24060747-02

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\240626a.b\18.D Page 2

Date : 26-JUN-2024 20:32

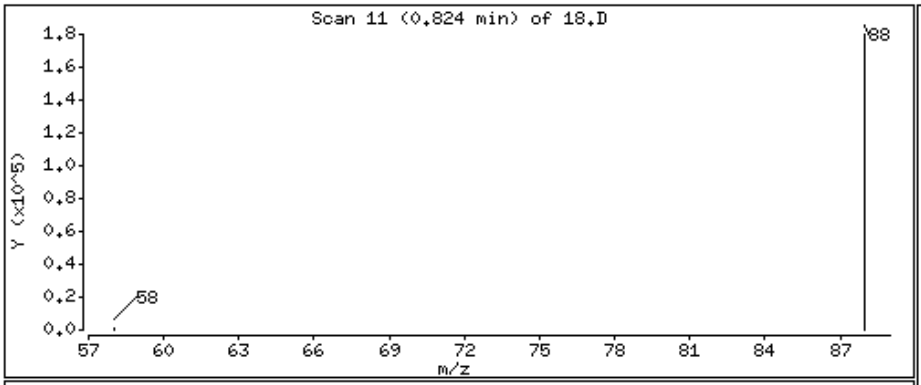
Client ID: Instrument: SV6.i

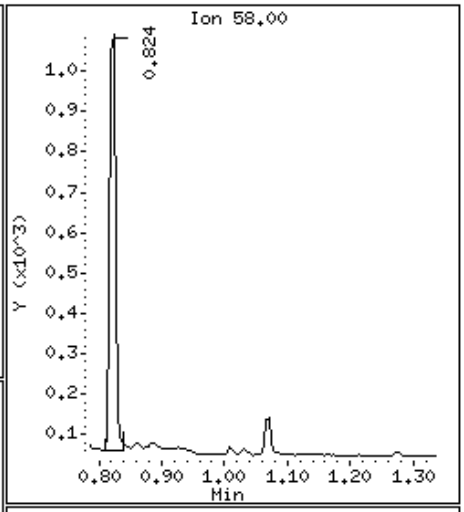
Sample Info: HS24060747-02

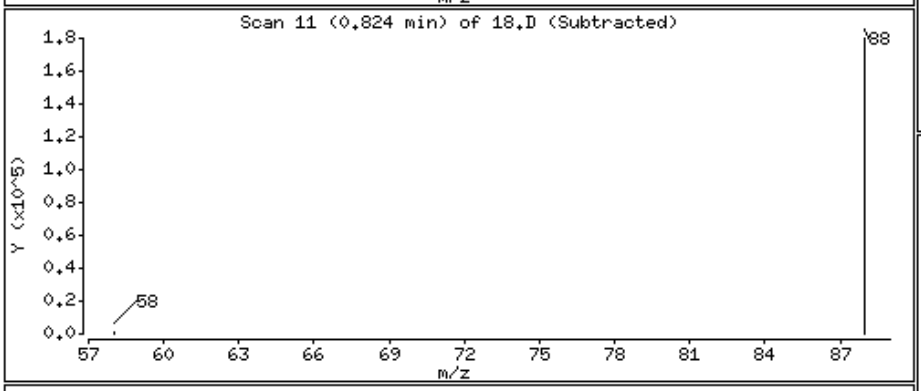
Purge Volume: 1000.0 Operator: LG

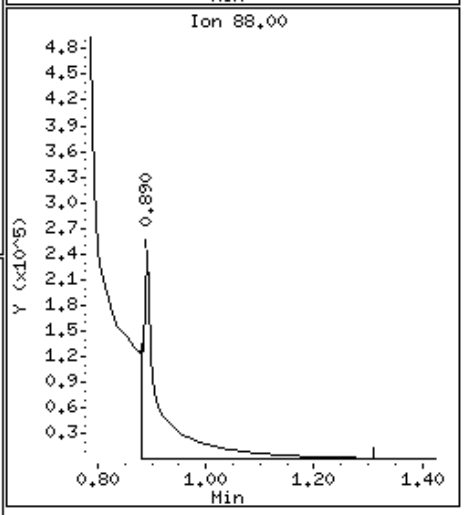
Column phase: RTX-5SIL MS Column diameter: 0.28

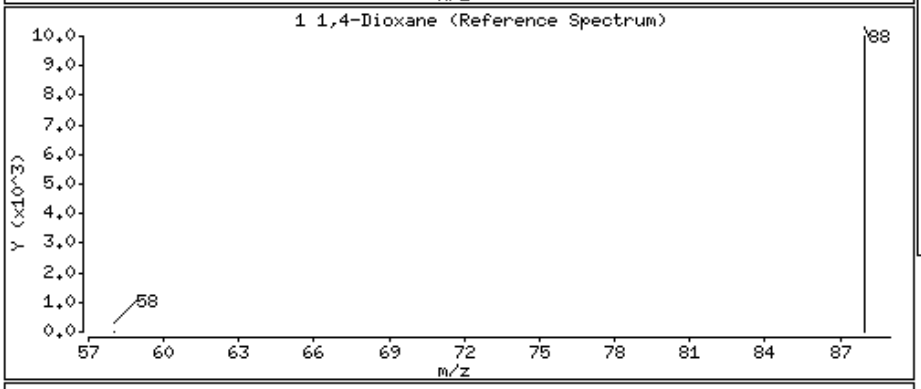
1 1,4-Dioxane Concentration: 9.276 ug/L

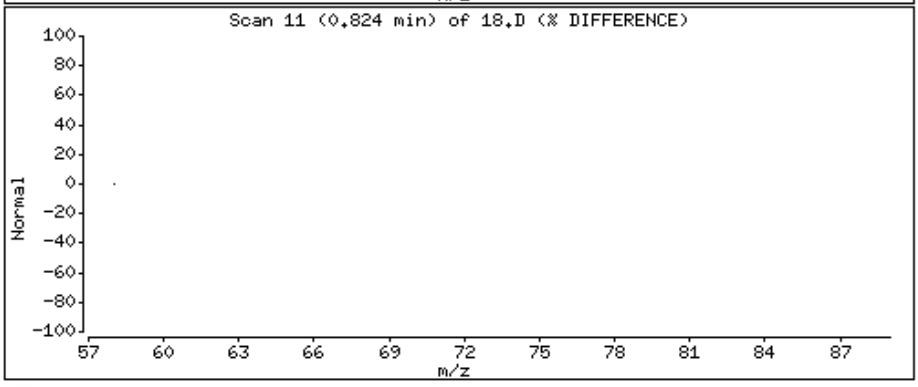












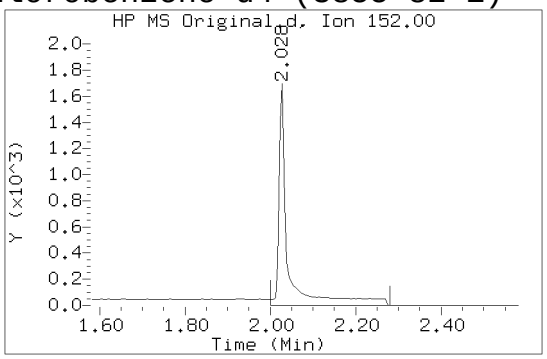
Data File : \\NAHSTWS005\Target\chem\SV6.i\240626a.b\18.D
Inj Date : 26-JUN-2024 20:32
InstruID : SV6.i
LabSampID : HS24060747-02

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

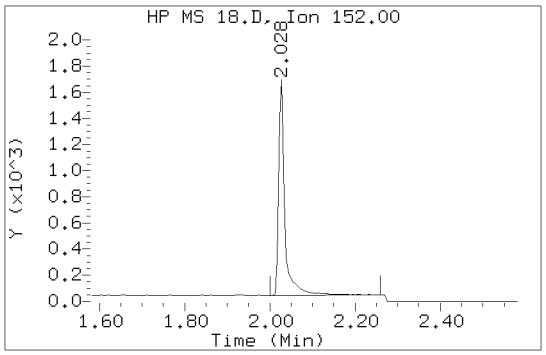
BEFORE

MASS
152
AREA
2466
HEIGHT
1696
26-Jun-2024
20:46
ALSHS
Server



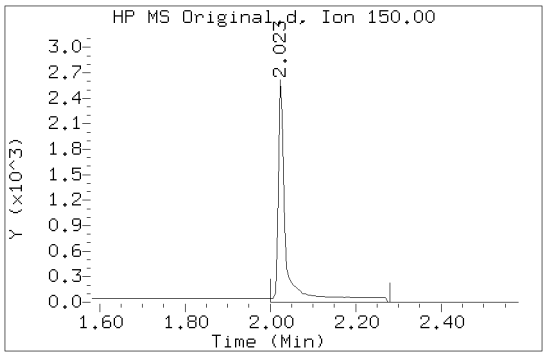
AFTER

MASS
152
AREA
1676
HEIGHT
1650
27-Jun-2024
14:59
ALSHS
Server



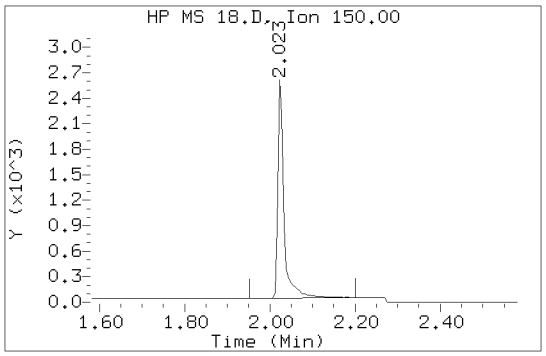
BEFORE

MASS
150
AREA
3432
HEIGHT
2616
26-Jun-2024
20:46
ALSHS
Server



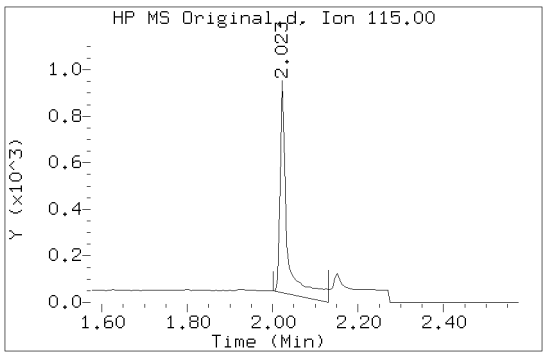
AFTER

MASS
150
AREA
2572
HEIGHT
2566
27-Jun-2024
14:59
ALSHS
Server



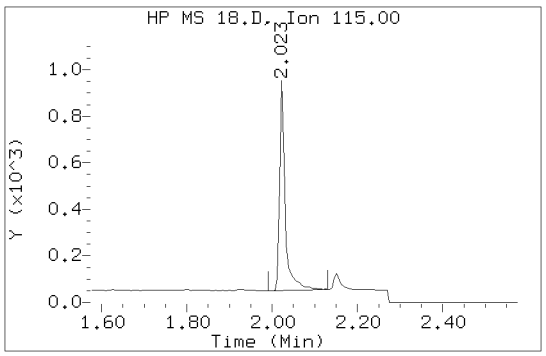
BEFORE

MASS
115
AREA
1051
HEIGHT
911
26-Jun-2024
20:46
ALSHS
Server



AFTER

MASS
115
AREA
828
HEIGHT
901
27-Jun-2024
14:59
ALSHS
Server

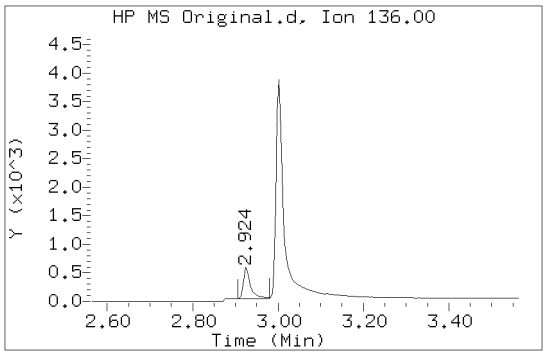


Naphthalene-d8 (1146-65-2)

Reason Code:

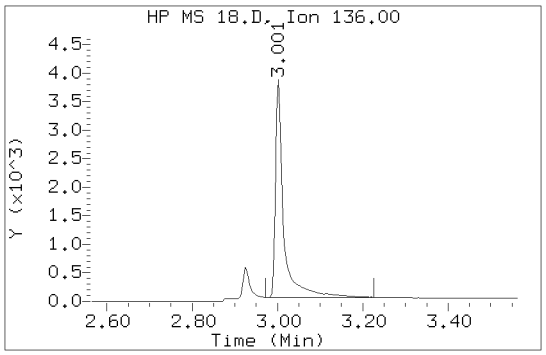
BEFORE

MASS
136
AREA
652
HEIGHT
552
26-Jun-2024
20:46
ALSHS
Server



AFTER

MASS
136
AREA
5043
HEIGHT
3816
27-Jun-2024
14:59
ALSHS
Server



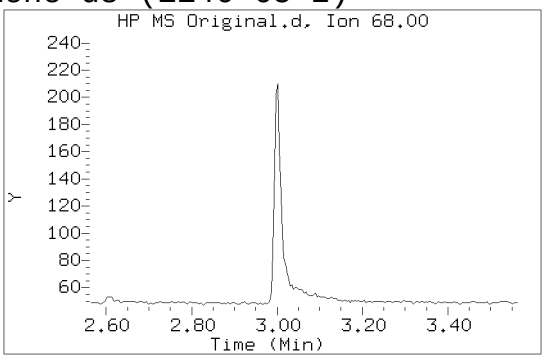
Data File : \\NAHSTWS005\Target\chem\SV6.i\240626a.b\18.D
Inj Date : 26-JUN-2024 20:32
InstruID : SV6.i
LabSampID : HS24060747-02

Naphthalene-d8 (1146-65-2)

Reason Code:

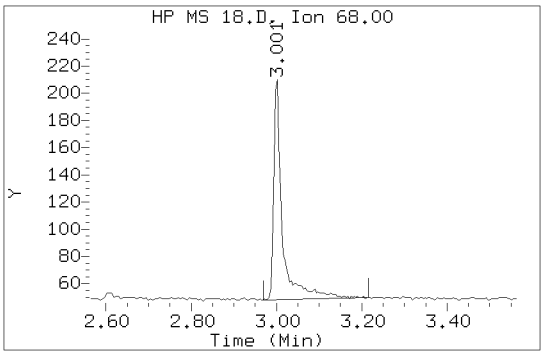
BEFORE

MASS
68
AREA
0
HEIGHT
0
26-Jun-2024
20:46
ALSHS
Server



AFTER

MASS
68
AREA
227
HEIGHT
161
27-Jun-2024
14:59
ALSHS
Server

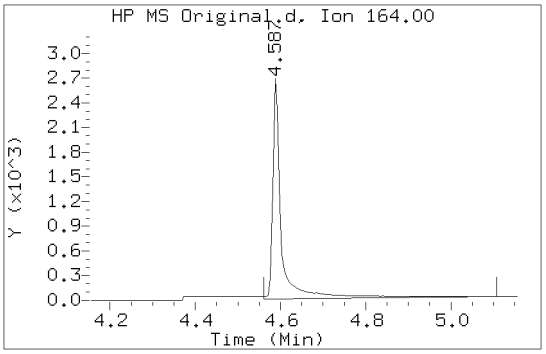


Acenaphthene-d10 (15067-26-2)

Reason Code:

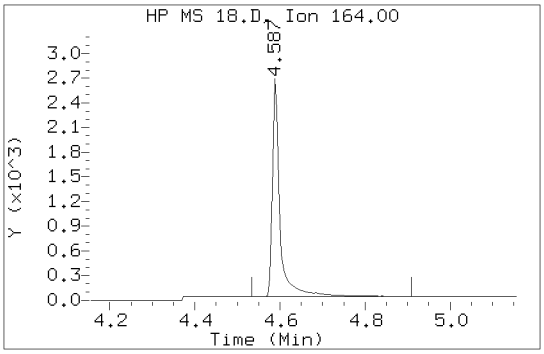
BEFORE

MASS
164
AREA
3878
HEIGHT
2680
26-Jun-2024
20:46
ALSHS
Server



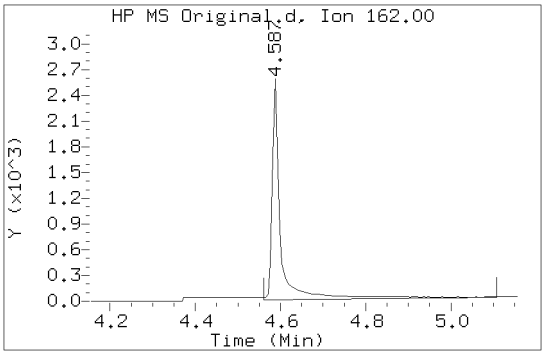
AFTER

MASS
164
AREA
3244
HEIGHT
2647
27-Jun-2024
14:59
ALSHS
Server



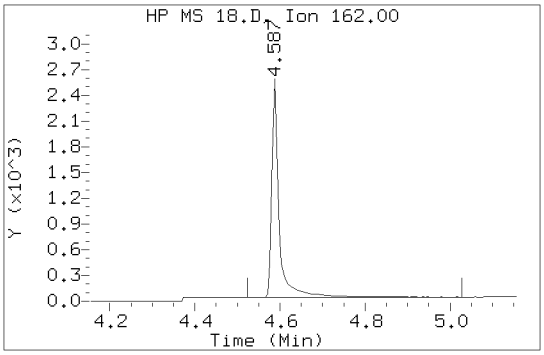
BEFORE

MASS
162
AREA
3609
HEIGHT
2578
26-Jun-2024
20:46
ALSHS
Server



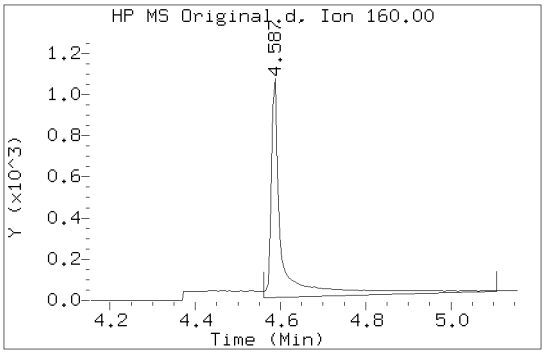
AFTER

MASS
162
AREA
3003
HEIGHT
2545
27-Jun-2024
14:59
ALSHS
Server



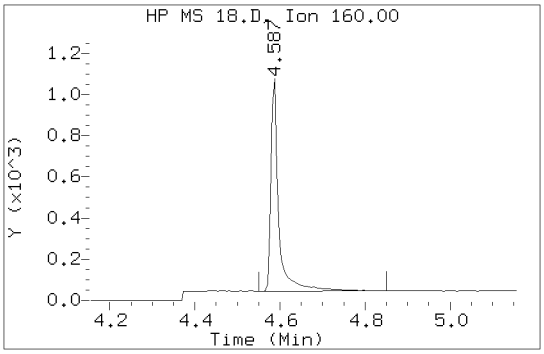
BEFORE

MASS
160
AREA
1874
HEIGHT
1063
26-Jun-2024
20:46
ALSHS
Server



AFTER

MASS
160
AREA
1289
HEIGHT
1031
27-Jun-2024
14:59
ALSHS
Server



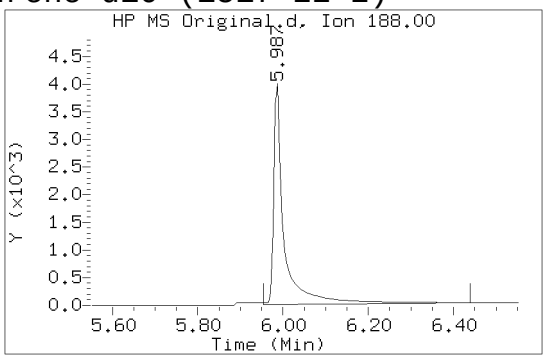
Data File : \\NAHSTWS005\Target\chem\SV6.i\240626a.b\18.D
Inj Date : 26-JUN-2024 20:32
InstruID : SV6.i
LabSampID : HS24060747-02

Phenanthrene-d10 (1517-22-2)

Reason Code:

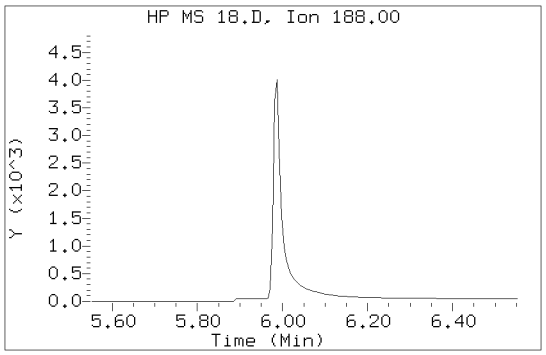
BEFORE

MASS
188
AREA
6992
HEIGHT
3998
26-Jun-2024
20:46
ALSHS
Server



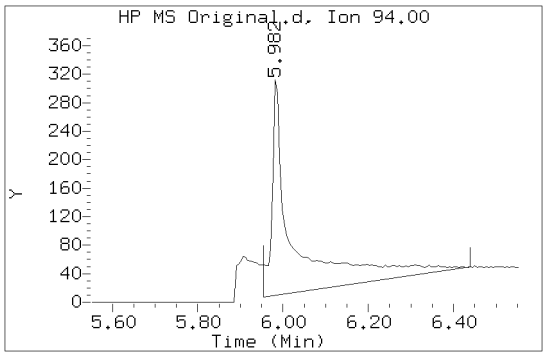
AFTER

MASS
188
AREA
6362
HEIGHT
3959
27-Jun-2024
14:59
ALSHS
Server



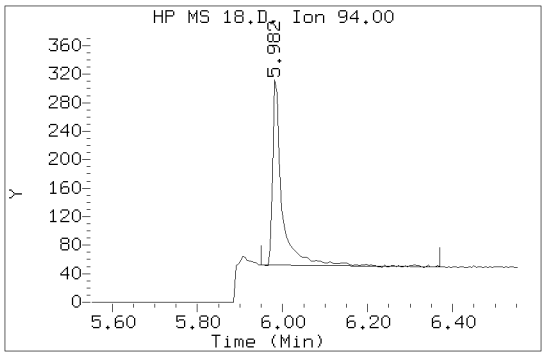
BEFORE

MASS
94
AREA
1057
HEIGHT
302
26-Jun-2024
20:46
ALSHS
Server



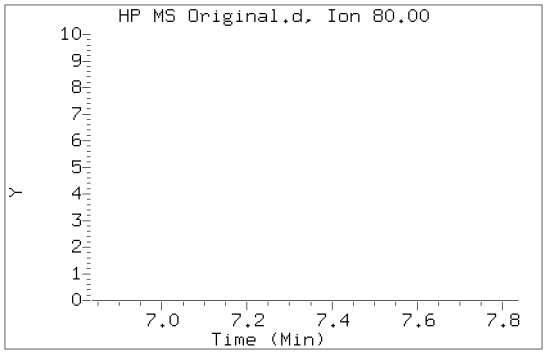
AFTER

MASS
94
AREA
402
HEIGHT
260
27-Jun-2024
14:59
ALSHS
Server



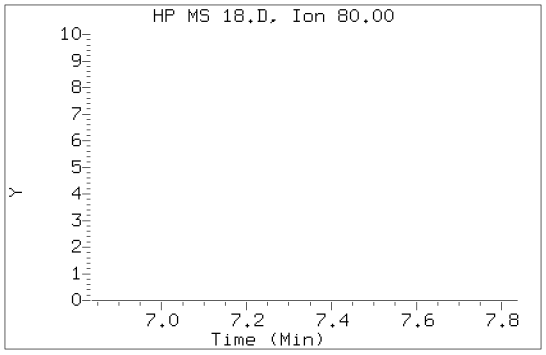
BEFORE

MASS
80
AREA
0
HEIGHT
0
26-Jun-2024
20:46
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
27-Jun-2024
14:59
ALSHS
Server

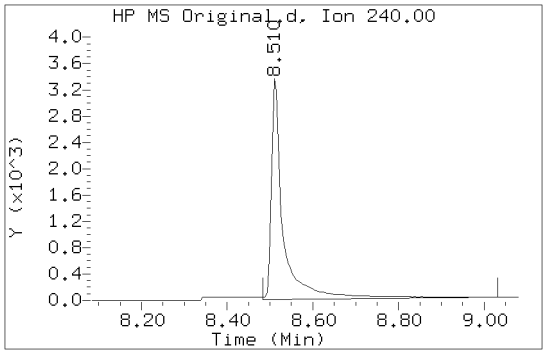


Chrysene-d12 (1719-03-5)

Reason Code:

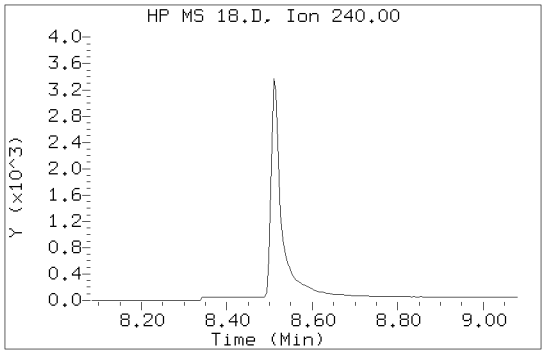
BEFORE

MASS
240
AREA
6618
HEIGHT
3357
26-Jun-2024
20:46
ALSHS
Server



AFTER

MASS
240
AREA
6071
HEIGHT
3323
27-Jun-2024
14:59
ALSHS
Server



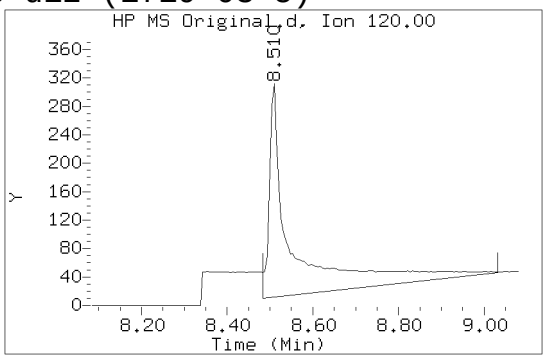
Data File : \\NAHSTWS005\Target\chem\SV6.i\240626a.b\18.D
Inj Date : 26-JUN-2024 20:32
InstruID : SV6.i
LabSampID : HS24060747-02

Chrysene-d12 (1719-03-5)

Reason Code:

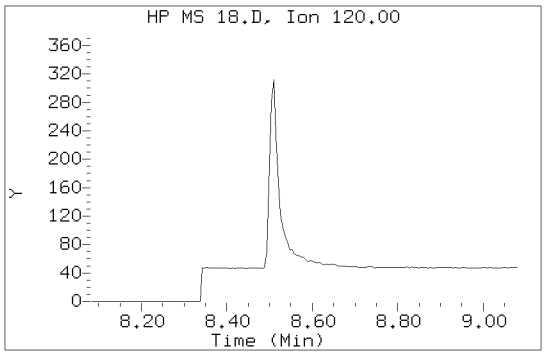
BEFORE

MASS
120
AREA
1102
HEIGHT
300
26-Jun-2024
20:46
ALSHS
Server



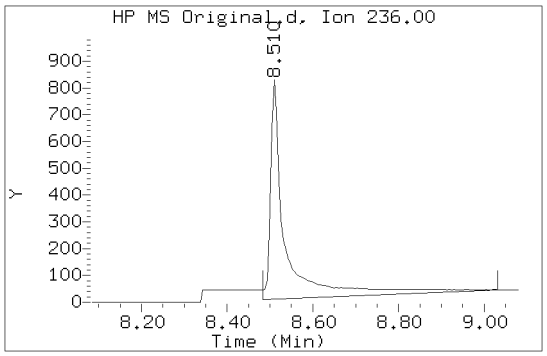
AFTER

MASS
120
AREA
480
HEIGHT
265
27-Jun-2024
14:59
ALSHS
Server



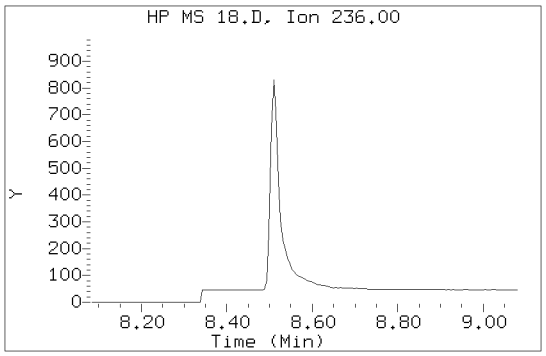
BEFORE

MASS
236
AREA
2018
HEIGHT
819
26-Jun-2024
20:46
ALSHS
Server



AFTER

MASS
236
AREA
1409
HEIGHT
784
27-Jun-2024
14:59
ALSHS
Server

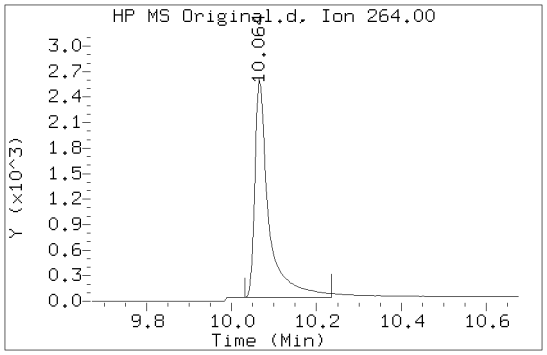


Perylene-d12 (1520-96-3)

Reason Code:

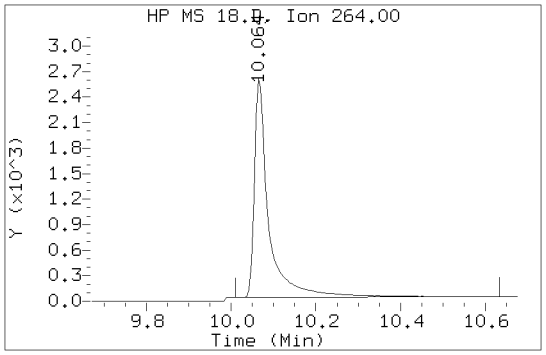
BEFORE

MASS
264
AREA
5866
HEIGHT
2567
26-Jun-2024
20:46
ALSHS
Server



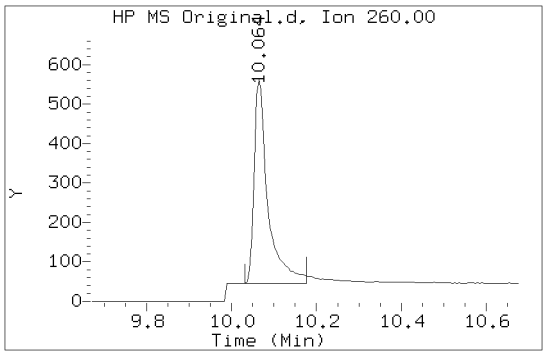
AFTER

MASS
264
AREA
6121
HEIGHT
2567
27-Jun-2024
14:59
ALSHS
Server



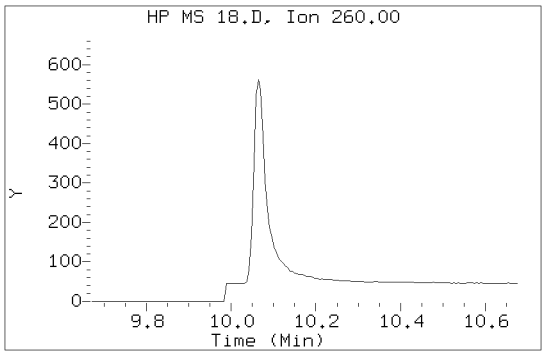
BEFORE

MASS
260
AREA
1170
HEIGHT
516
26-Jun-2024
20:46
ALSHS
Server



AFTER

MASS
260
AREA
1284
HEIGHT
516
27-Jun-2024
14:59
ALSHS
Server



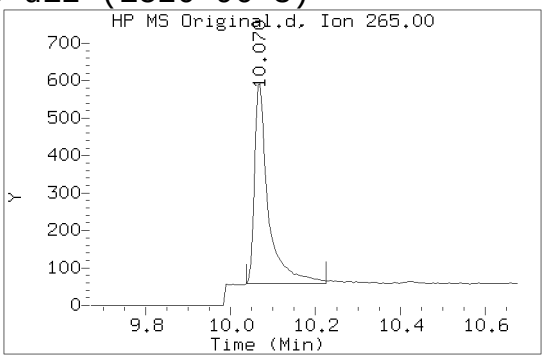
Data File : \\NAHSTWS005\Target\chem\SV6.i\240626a.b\18.D
Inj Date : 26-JUN-2024 20:32
InstruID : SV6.i
LabSampID : HS24060747-02

Perylene-d12 (1520-96-3)

Reason Code:

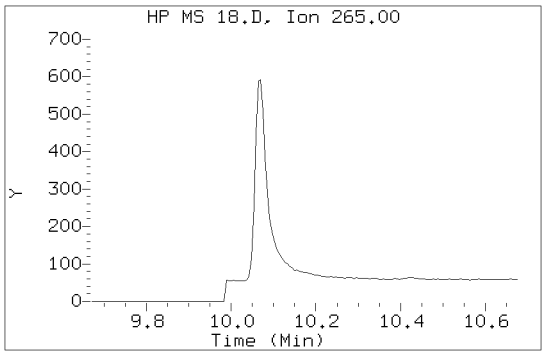
BEFORE

MASS
265
AREA
1215
HEIGHT
534
26-Jun-2024
20:46
ALSHS
Server



AFTER

MASS
265
AREA
1320
HEIGHT
536
27-Jun-2024
14:59
ALSHS
Server



Data File: \\NAHSTWS005\Target\chem\SV6.i\240626a.b\19.D Page 1
Report Date: 27-Jun-2024 15:00

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240626a.b\19.D
Lab Smp Id: HS24060747-04
Inj Date : 26-JUN-2024 20:49
Operator : LG Inst ID: SV6.i
Smp Info : HS24060747-04
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240626a.b\DXSIM.m
Meth Date : 22-Jun-2024 12:47 SV6.i Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 19
Dil Factor: 20.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7015

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	20.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	2.022	2.080	(1.000)	1687	0.10000	(aM)
* 45 Naphthalene-d8	136	3.001	3.063	(1.000)	5302	0.10000	(M)
* 86 Acenaphthene-d10	164	4.587	4.654	(1.000)	3179	0.10000	(M)
* 126 Phenanthrene-d10	188	5.987	6.054	(1.000)	6330	0.10000	(M)
* 182 Chrysene-d12	240	8.509	8.581	(1.000)	5911	0.10000	(M)
* 198 Perylene-d12	264	10.064	10.174	(1.000)	6055	0.10000	(M)
1 1,4-Dioxane	58	0.801	0.834	(0.396)	953	0.26374	5.275(M)

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\SV6.i\240626a.b\19.D

Date : 26-JUN-2024 20:49

Client ID:

Instrument: SV6.i

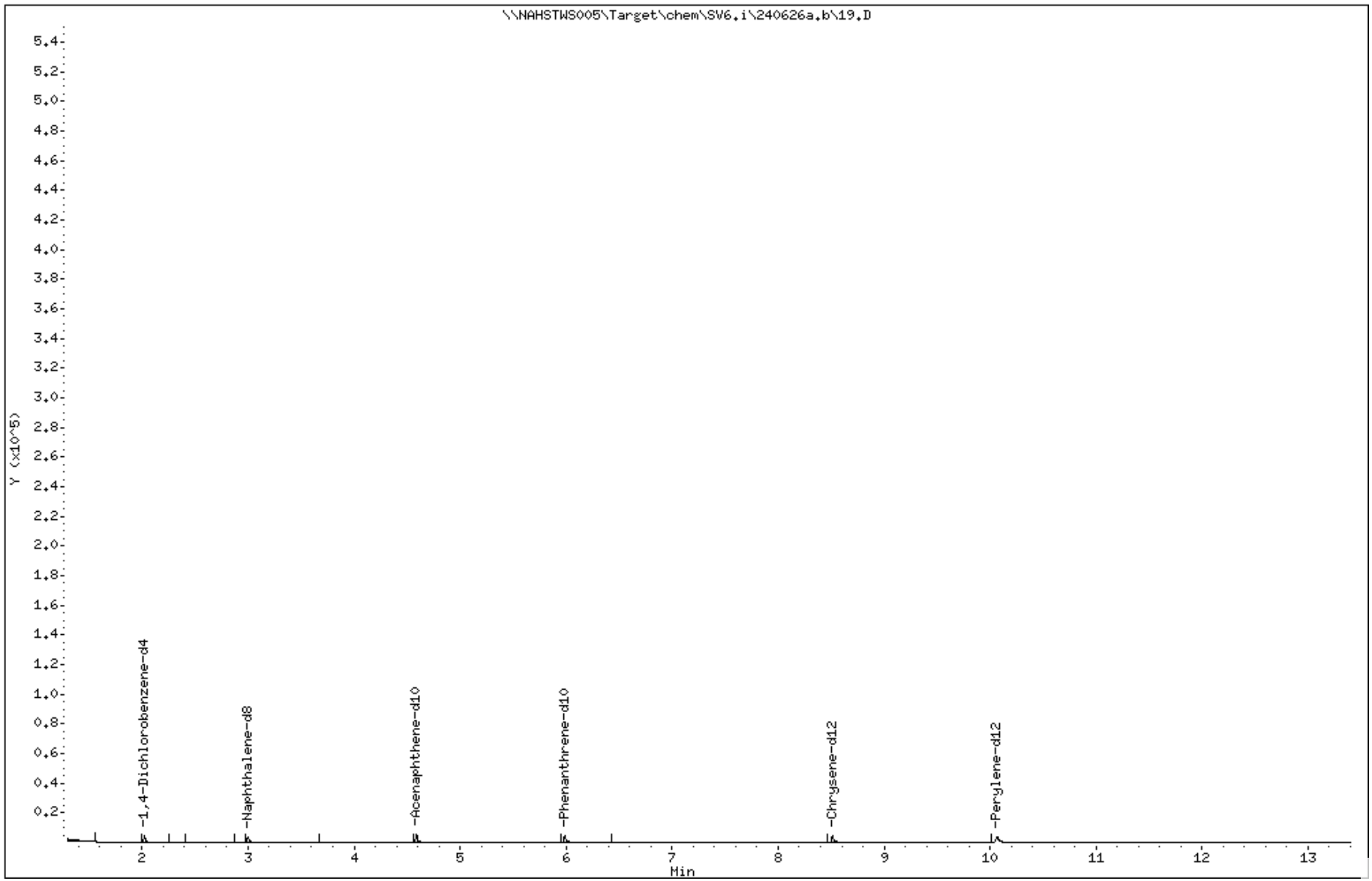
Sample Info: HS24060747-04

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\240626a.b\19.D

Date : 26-JUN-2024 20:49

Client ID:

Instrument: SV6.i

Sample Info: HS24060747-04

Purge Volume: 1000.0

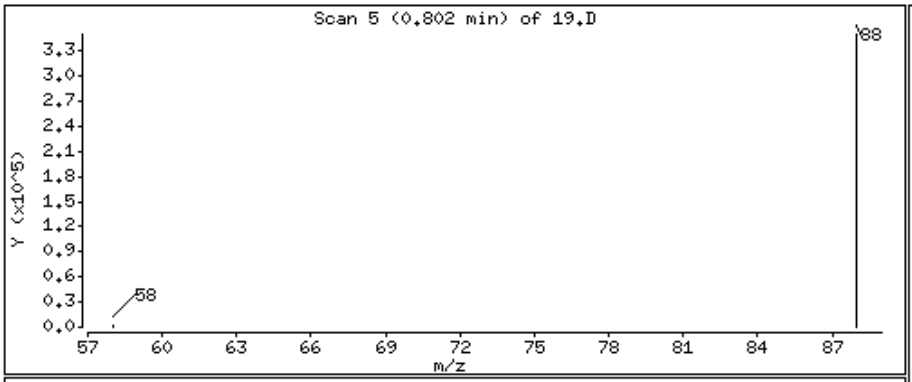
Operator: LG

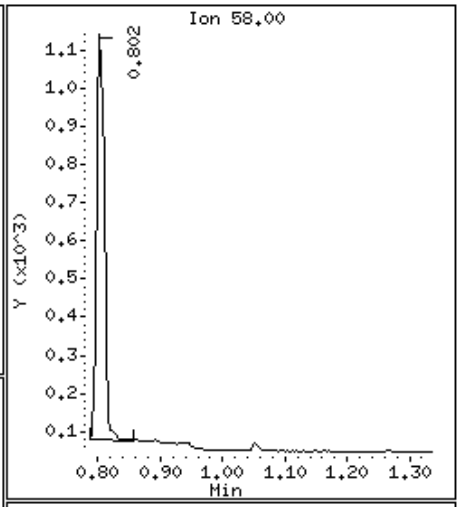
Column phase: RTX-5SIL MS

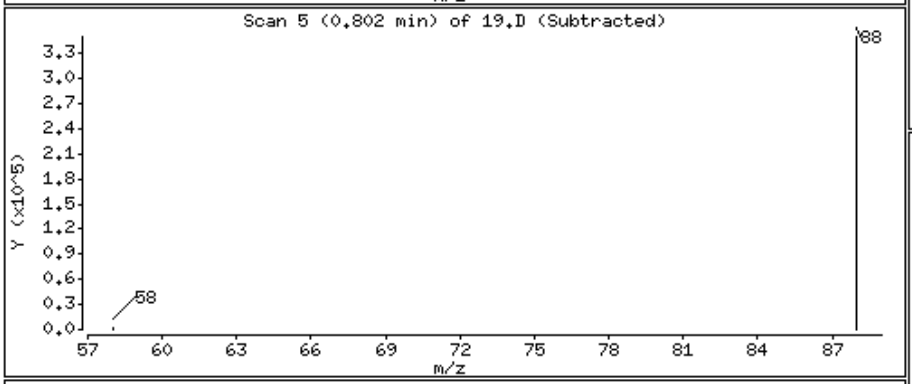
Column diameter: 0.28

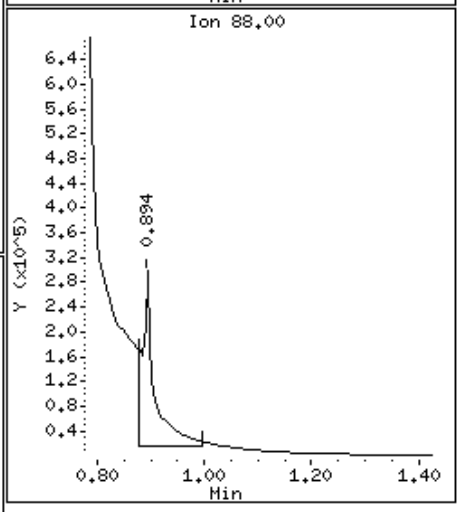
1 1,4-Dioxane

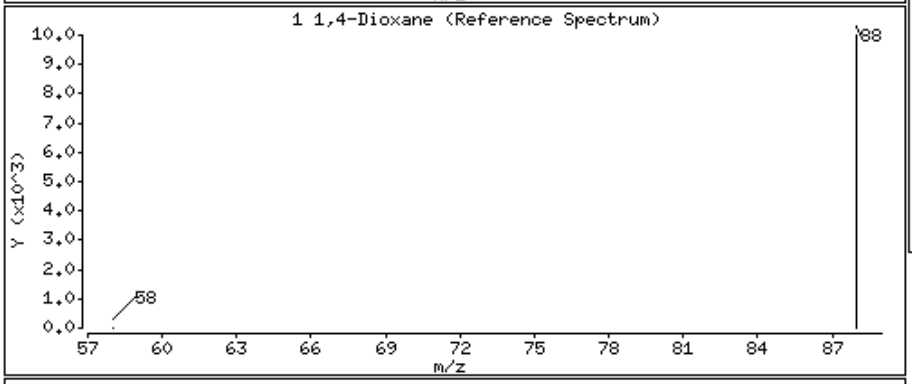
Concentration: 5.275 ug/L

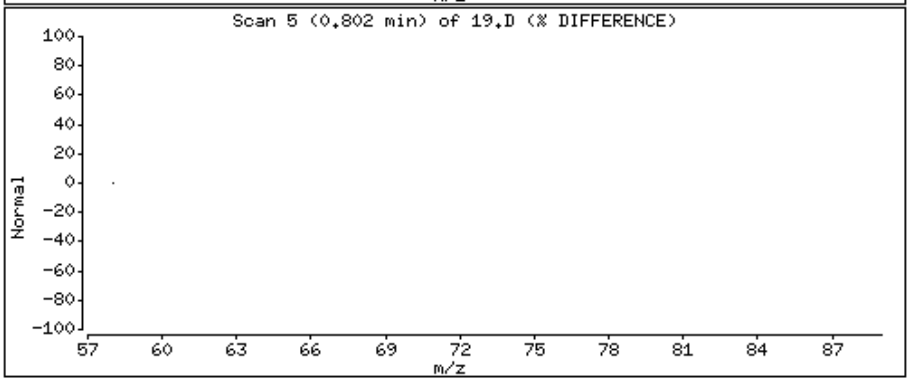












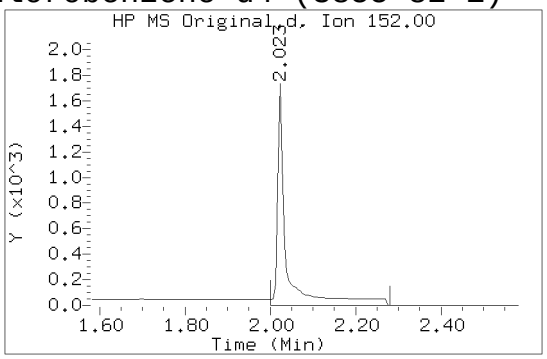
Data File : \\NAHSTWS005\Target\chem\SV6.i\240626a.b\19.D
Inj Date : 26-JUN-2024 20:49
InstruID : SV6.i
LabSampID : HS24060747-04

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

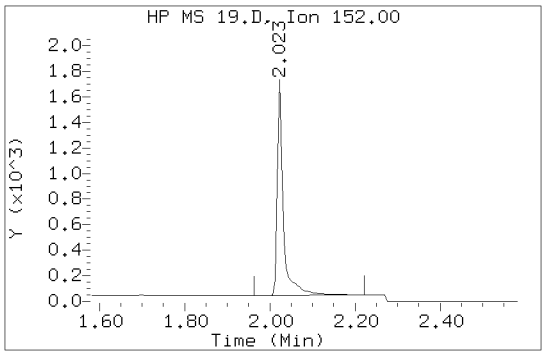
BEFORE

MASS
152
AREA
2494
HEIGHT
1734
26-Jun-2024
21:04
ALSHS
Server



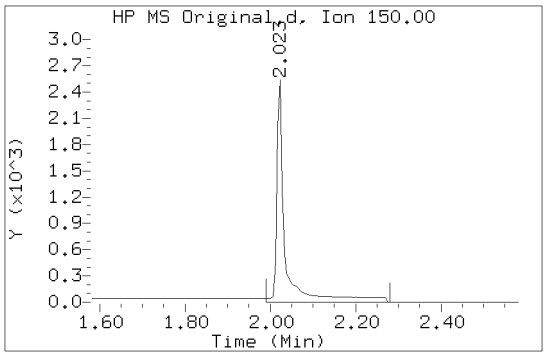
AFTER

MASS
152
AREA
1687
HEIGHT
1686
27-Jun-2024
15:00
ALSHS
Server



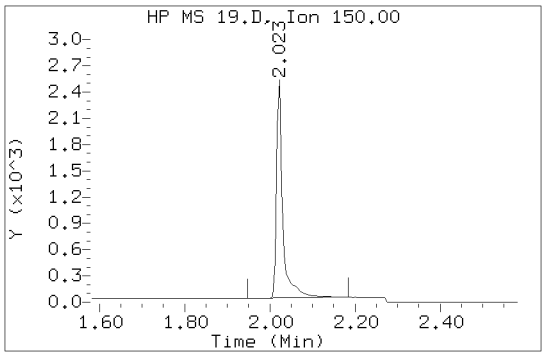
BEFORE

MASS
150
AREA
3495
HEIGHT
2539
26-Jun-2024
21:04
ALSHS
Server



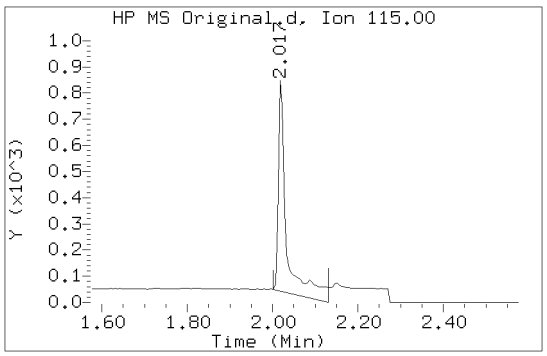
AFTER

MASS
150
AREA
2591
HEIGHT
2489
27-Jun-2024
15:00
ALSHS
Server



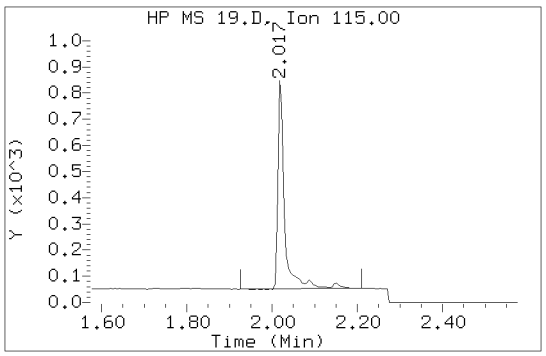
BEFORE

MASS
115
AREA
1077
HEIGHT
803
26-Jun-2024
21:04
ALSHS
Server



AFTER

MASS
115
AREA
877
HEIGHT
795
27-Jun-2024
15:00
ALSHS
Server

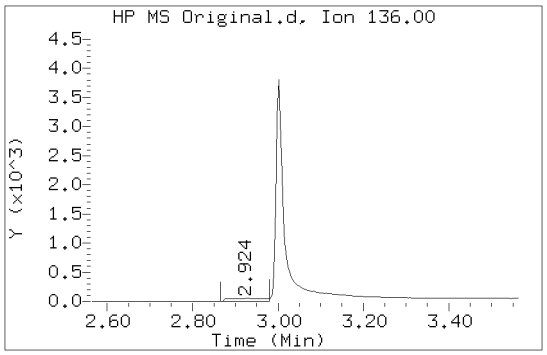


Naphthalene-d8 (1146-65-2)

Reason Code:

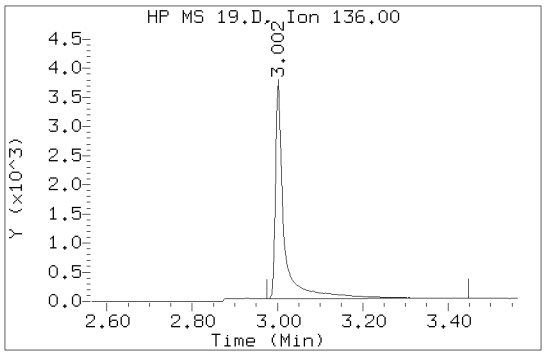
BEFORE

MASS
136
AREA
308
HEIGHT
51
26-Jun-2024
21:04
ALSHS
Server



AFTER

MASS
136
AREA
5302
HEIGHT
3757
27-Jun-2024
15:00
ALSHS
Server



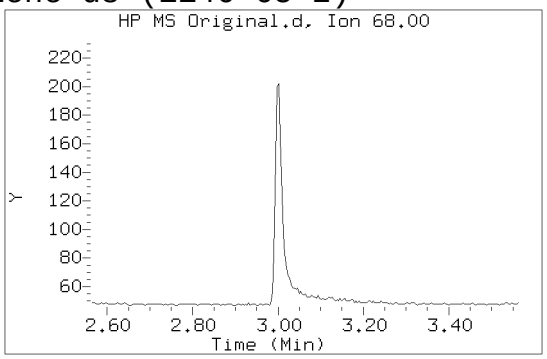
Data File : \\NAHSTWS005\Target\chem\SV6.i\240626a.b\19.D
Inj Date : 26-JUN-2024 20:49
InstruID : SV6.i
LabSampID : HS24060747-04

Naphthalene-d8 (1146-65-2)

Reason Code:

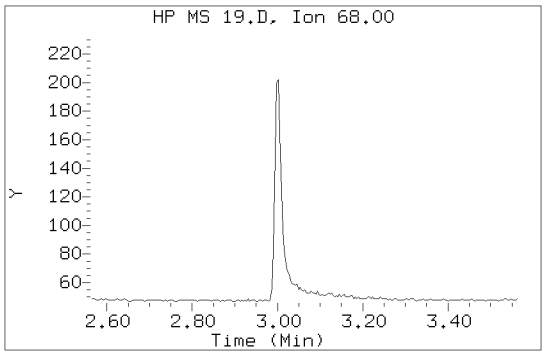
BEFORE

MASS
68
AREA
0
HEIGHT
0
26-Jun-2024
21:04
ALSHS
Server



AFTER

MASS
68
AREA
253
HEIGHT
154
27-Jun-2024
15:00
ALSHS
Server

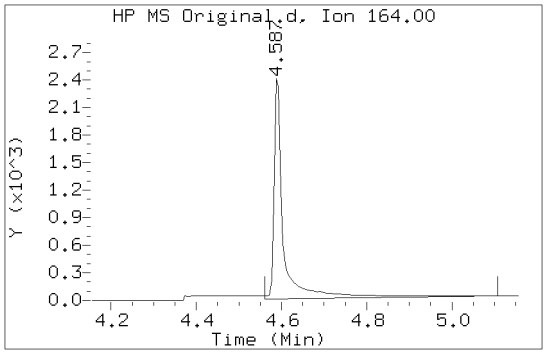


Acenaphthene-d10 (15067-26-2)

Reason Code:

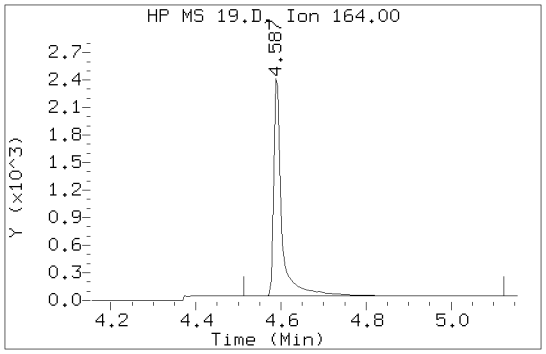
BEFORE

MASS
164
AREA
3812
HEIGHT
2400
26-Jun-2024
21:04
ALSHS
Server



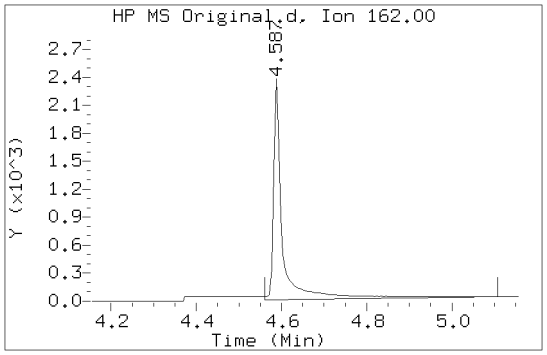
AFTER

MASS
164
AREA
3179
HEIGHT
2365
27-Jun-2024
15:00
ALSHS
Server



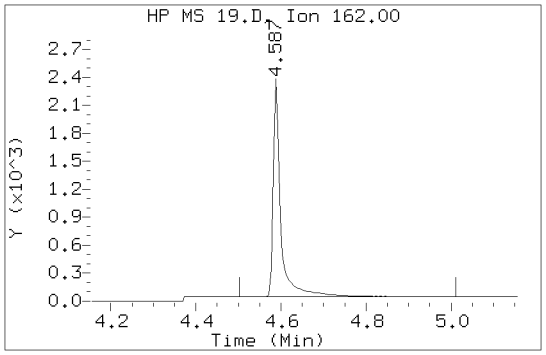
BEFORE

MASS
162
AREA
3549
HEIGHT
2370
26-Jun-2024
21:04
ALSHS
Server



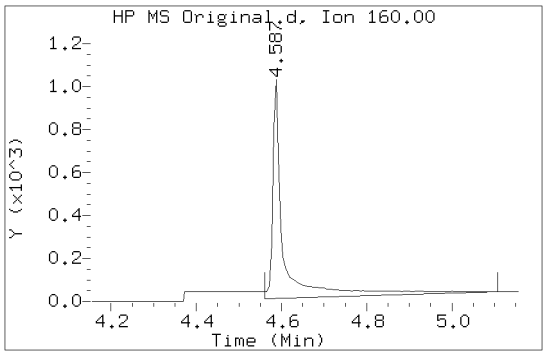
AFTER

MASS
162
AREA
2965
HEIGHT
2337
27-Jun-2024
15:00
ALSHS
Server



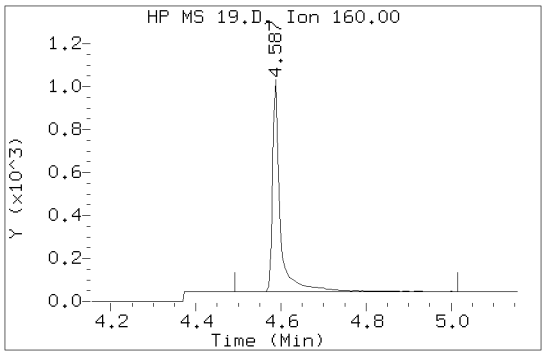
BEFORE

MASS
160
AREA
1840
HEIGHT
1019
26-Jun-2024
21:04
ALSHS
Server



AFTER

MASS
160
AREA
1274
HEIGHT
987
27-Jun-2024
15:00
ALSHS
Server



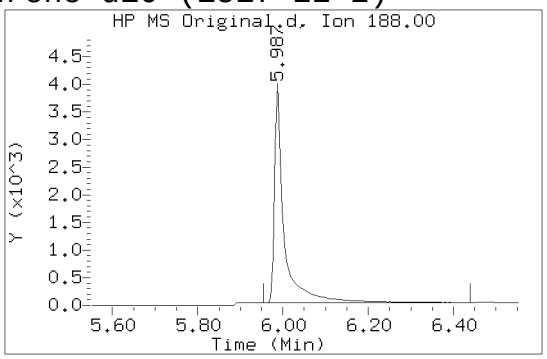
Data File : \\NAHSTWS005\Target\chem\SV6.i\240626a.b\19.D
Inj Date : 26-JUN-2024 20:49
InstruID : SV6.i
LabSampID : HS24060747-04

Phenanthrene-d10 (1517-22-2)

Reason Code:

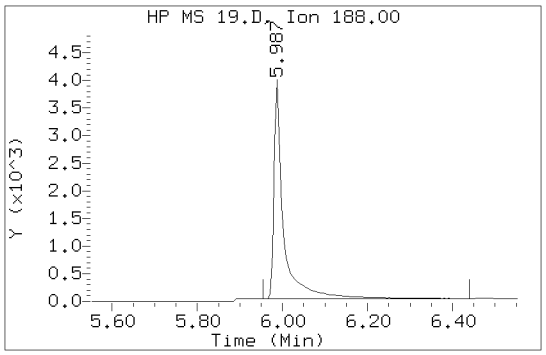
BEFORE

MASS
188
AREA
6330
HEIGHT
3968
26-Jun-2024
21:04
ALSHS
Server



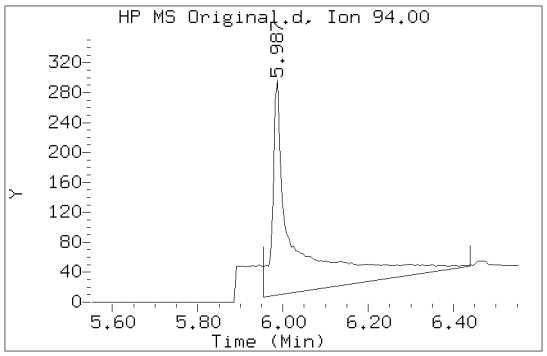
AFTER

MASS
188
AREA
6330
HEIGHT
3968
27-Jun-2024
15:00
ALSHS
Server



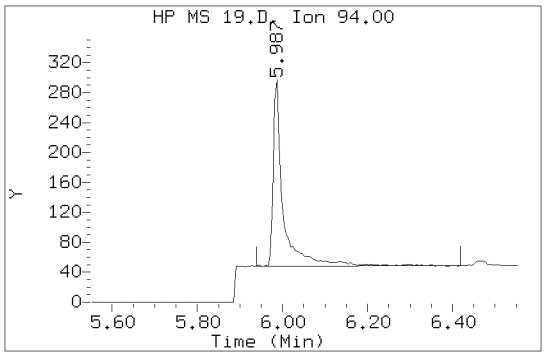
BEFORE

MASS
94
AREA
1028
HEIGHT
287
26-Jun-2024
21:04
ALSHS
Server



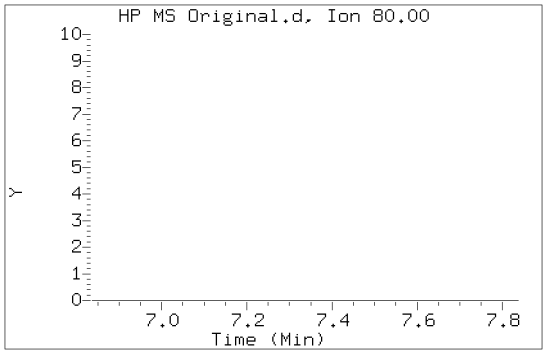
AFTER

MASS
94
AREA
411
HEIGHT
248
27-Jun-2024
15:00
ALSHS
Server



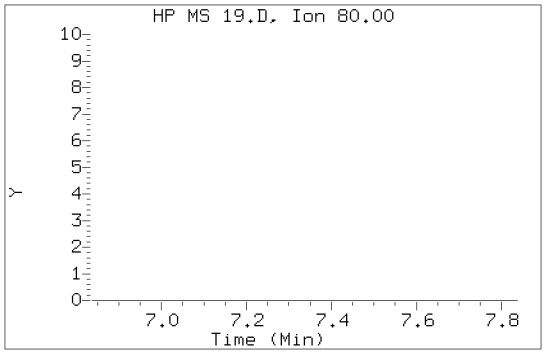
BEFORE

MASS
80
AREA
0
HEIGHT
0
26-Jun-2024
21:04
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
27-Jun-2024
15:00
ALSHS
Server

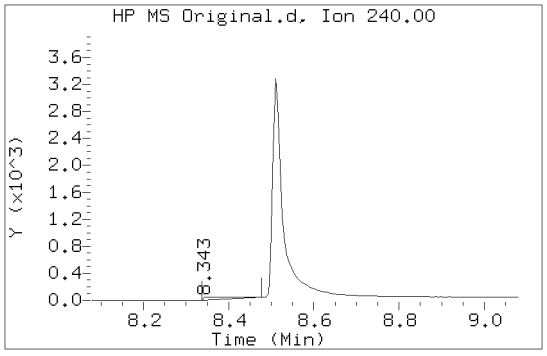


Chrysene-d12 (1719-03-5)

Reason Code:

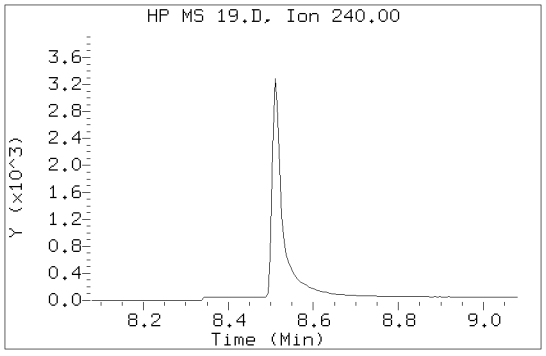
BEFORE

MASS
240
AREA
181
HEIGHT
43
26-Jun-2024
21:04
ALSHS
Server



AFTER

MASS
240
AREA
5911
HEIGHT
3239
27-Jun-2024
15:00
ALSHS
Server



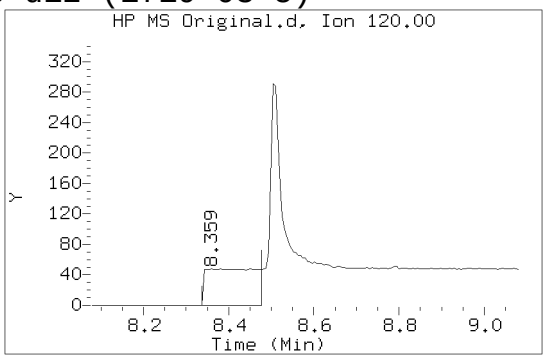
Data File : \\NAHSTWS005\Target\chem\SV6.i\240626a.b\19.D
Inj Date : 26-JUN-2024 20:49
InstruID : SV6.i
LabSampID : HS24060747-04

Chrysene-d12 (1719-03-5)

Reason Code:

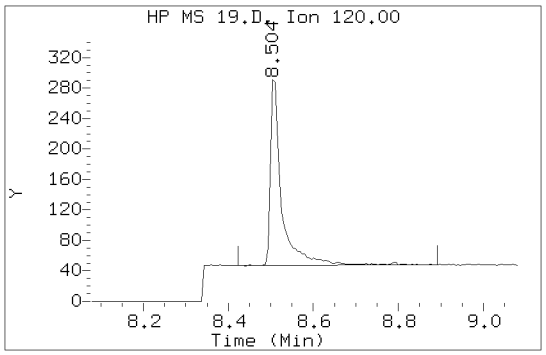
BEFORE

MASS
120
AREA
395
HEIGHT
48
26-Jun-2024
21:04
ALSHS
Server



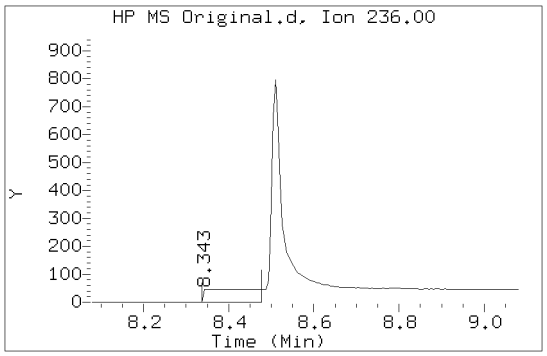
AFTER

MASS
120
AREA
450
HEIGHT
243
27-Jun-2024
15:00
ALSHS
Server



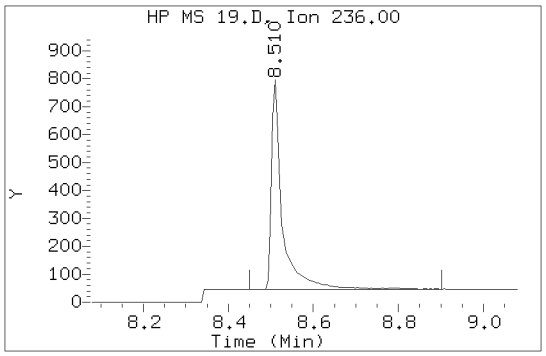
BEFORE

MASS
236
AREA
384
HEIGHT
46
26-Jun-2024
21:04
ALSHS
Server



AFTER

MASS
236
AREA
1328
HEIGHT
749
27-Jun-2024
15:00
ALSHS
Server

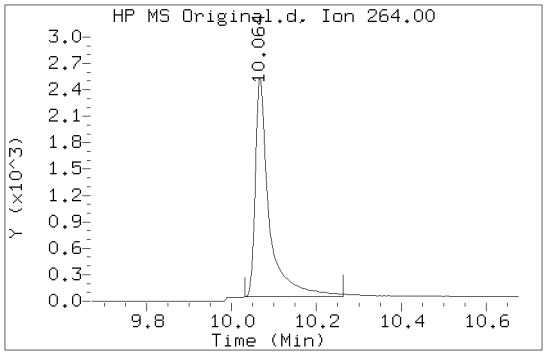


Perylene-d12 (1520-96-3)

Reason Code:

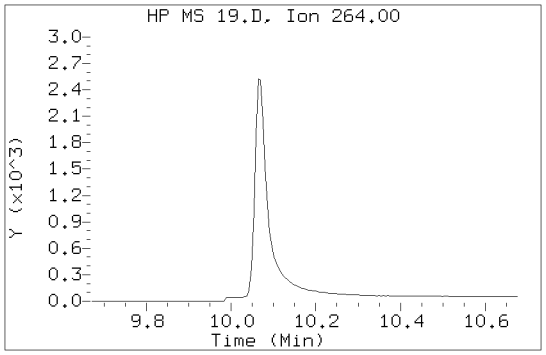
BEFORE

MASS
264
AREA
5749
HEIGHT
2476
26-Jun-2024
21:04
ALSHS
Server



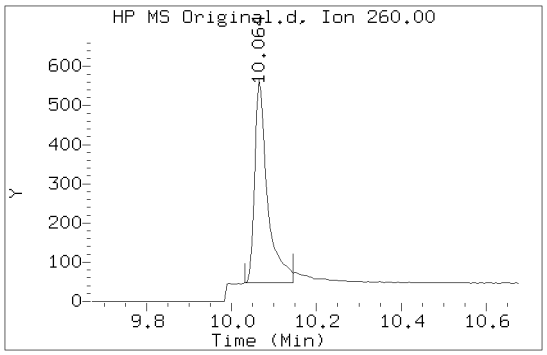
AFTER

MASS
264
AREA
6055
HEIGHT
2478
27-Jun-2024
15:00
ALSHS
Server



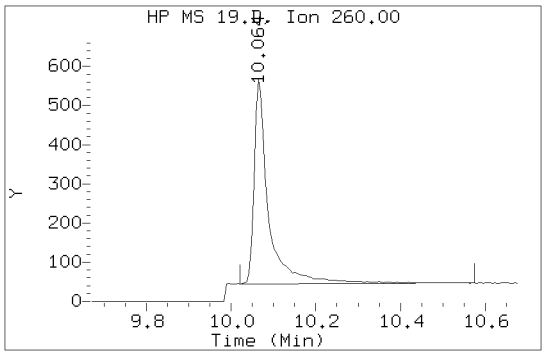
BEFORE

MASS
260
AREA
1092
HEIGHT
519
26-Jun-2024
21:04
ALSHS
Server



AFTER

MASS
260
AREA
1237
HEIGHT
520
27-Jun-2024
15:00
ALSHS
Server



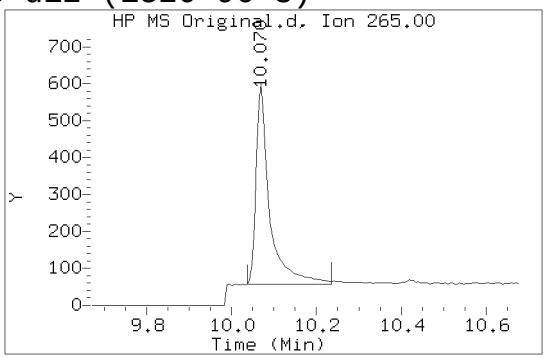
Data File : \\NAHSTWS005\Target\chem\SV6.i\240626a.b\19.D
Inj Date : 26-JUN-2024 20:49
InstruID : SV6.i
LabSampID : HS24060747-04

Perylene-d12 (1520-96-3)

Reason Code:

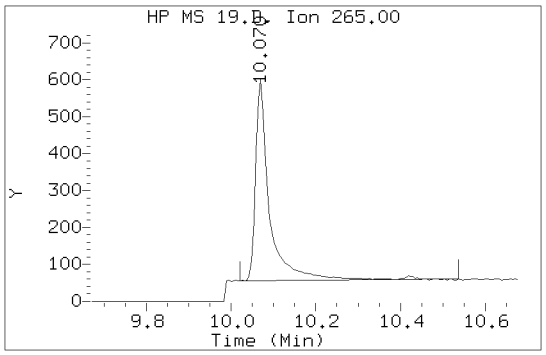
BEFORE

MASS
265
AREA
1206
HEIGHT
543
26-Jun-2024
21:04
ALSHS
Server



AFTER

MASS
265
AREA
1270
HEIGHT
544
27-Jun-2024
15:00
ALSHS
Server

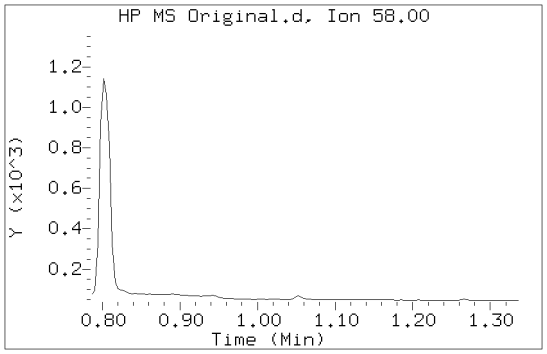


1,4-Dioxane ()

Reason Code:

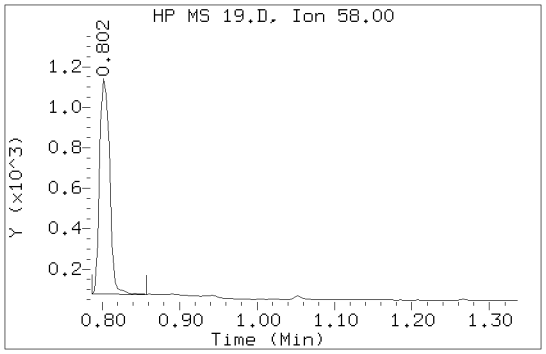
BEFORE

MASS
58
AREA
0
HEIGHT
0
26-Jun-2024
21:04
ALSHS
Server



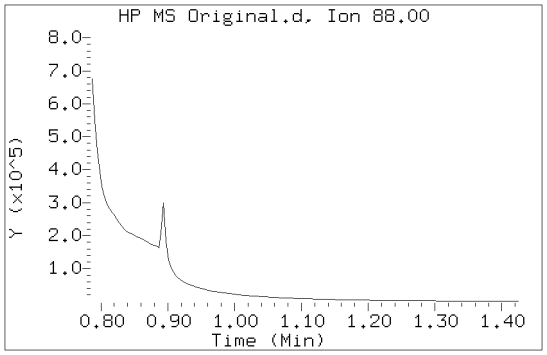
AFTER

MASS
58
AREA
953
HEIGHT
1063
27-Jun-2024
15:00
ALSHS
Server



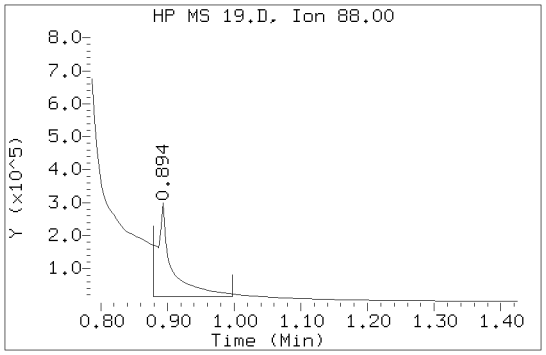
BEFORE

MASS
88
AREA
0
HEIGHT
0
26-Jun-2024
21:04
ALSHS
Server



AFTER

MASS
88
AREA
447348
HEIGHT
284376
27-Jun-2024
15:00
ALSHS
Server



Data File: \\NAHSTWS005\Target\chem\SV6.i\240626a.b\21.D Page 1
Report Date: 27-Jun-2024 15:15

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240626a.b\21.D
Lab Smp Id: HS24060747-05
Inj Date : 26-JUN-2024 21:24
Operator : LG Inst ID: SV6.i
Smp Info : HS24060747-05
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240626a.b\DXSIM.m
Meth Date : 22-Jun-2024 12:47 SV6.i Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 21
Dil Factor: 100.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7015

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	100.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	2.022	2.080	(1.000)	1444	0.10000	(aM)
* 45 Naphthalene-d8	136	3.001	3.063	(1.000)	4476	0.10000	(M)
* 86 Acenaphthene-d10	164	4.592	4.654	(1.000)	2799	0.10000	(M)
* 126 Phenanthrene-d10	188	5.987	6.054	(1.000)	5238	0.10000	(M)
* 182 Chrysene-d12	240	8.515	8.581	(1.000)	4815	0.10000	(M)
* 198 Perylene-d12	264	10.069	10.174	(1.000)	4865	0.10000	(M)
1 1,4-Dioxane	58	0.801	0.834	(0.396)	875	0.28290	28.29(M)

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\SV6.i\240626a.b\21.D

Date : 26-JUN-2024 21:24

Client ID:

Instrument: SV6.i

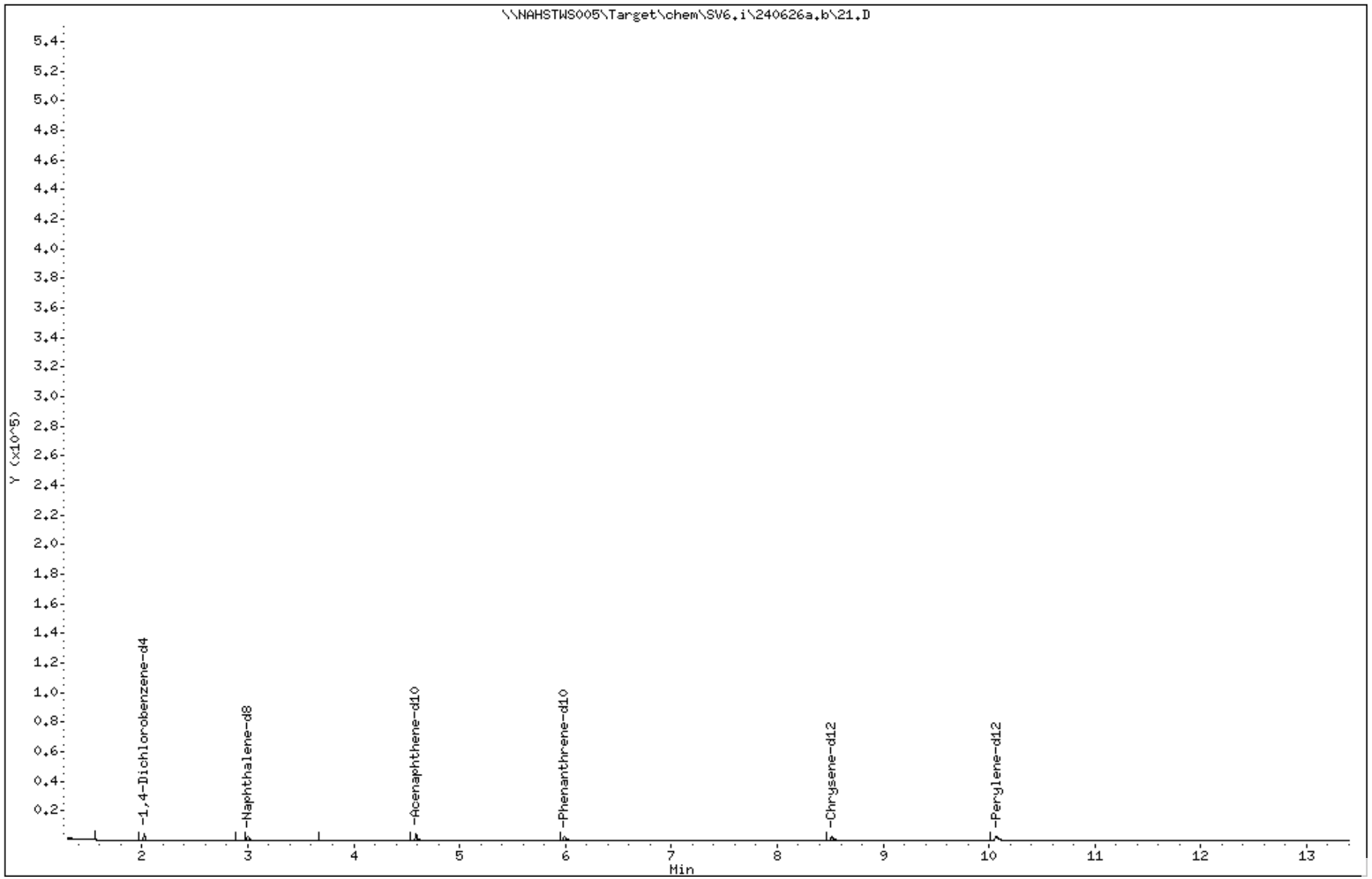
Sample Info: HS24060747-05

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\240626a.b\21.D

Date : 26-JUN-2024 21:24

Client ID:

Instrument: SV6.i

Sample Info: HS24060747-05

Purge Volume: 1000.0

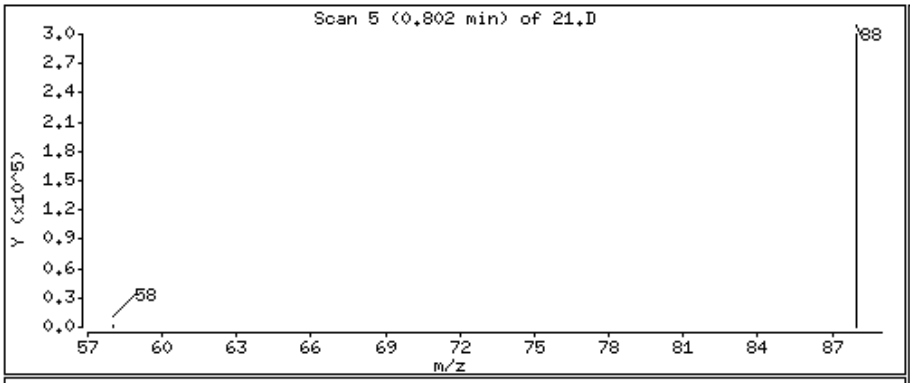
Operator: LG

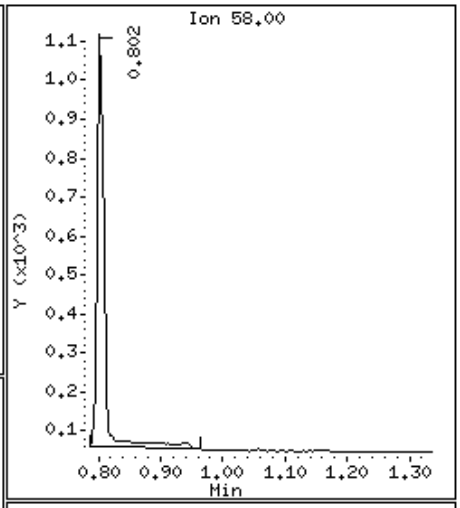
Column phase: RTX-5SIL MS

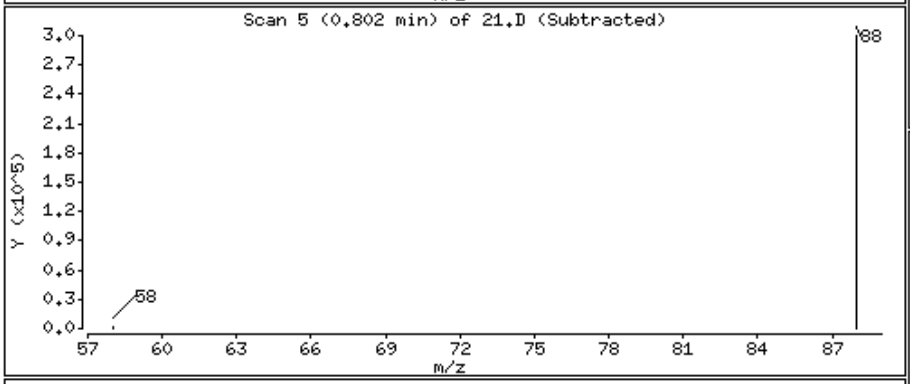
Column diameter: 0.28

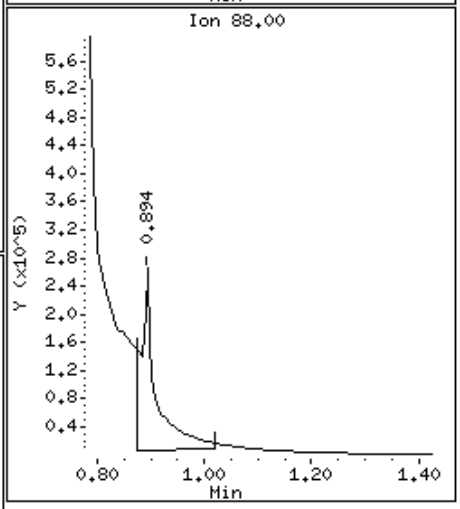
1 1,4-Dioxane

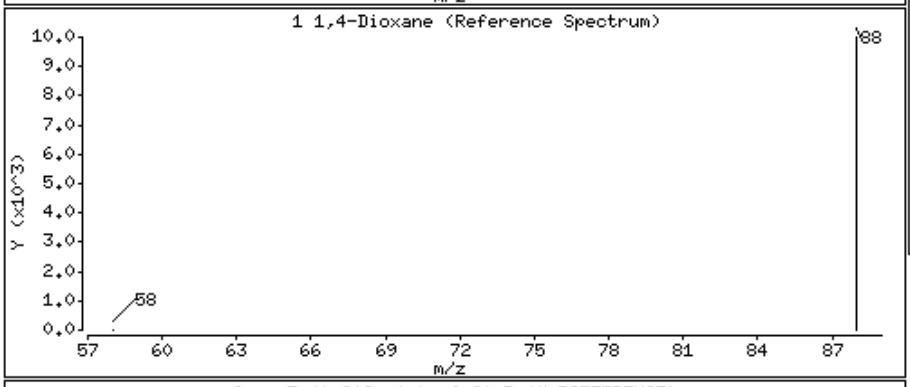
Concentration: 28.29 ug/L

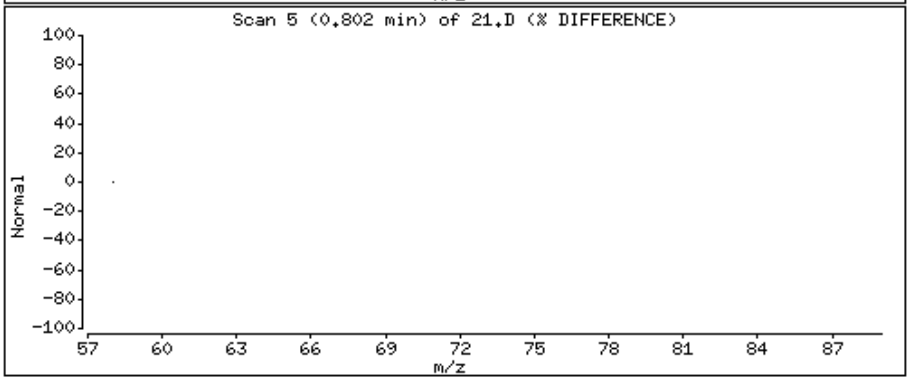












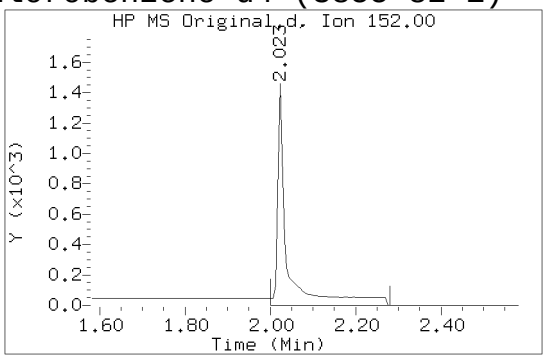
Data File : \\NAHSTWS005\Target\chem\SV6.i\240626a.b\21.D
Inj Date : 26-JUN-2024 21:24
InstruID : SV6.i
LabSampID : HS24060747-05

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

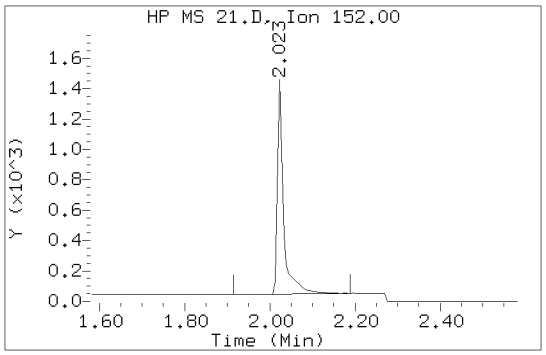
BEFORE

MASS
152
AREA
2268
HEIGHT
1459
26-Jun-2024
21:34
ALSHS
Server



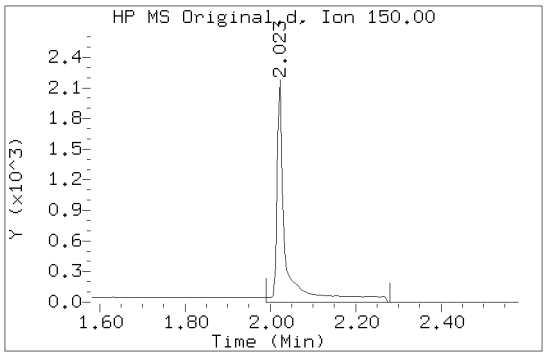
AFTER

MASS
152
AREA
1444
HEIGHT
1411
27-Jun-2024
15:15
ALSHS
Server



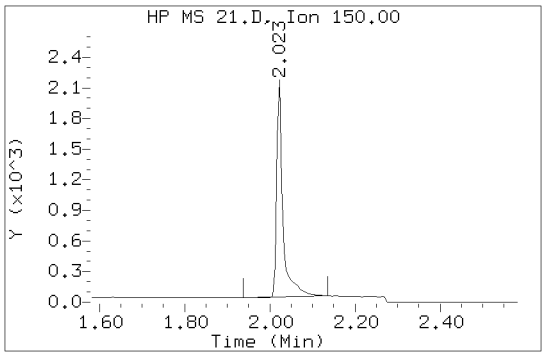
BEFORE

MASS
150
AREA
3145
HEIGHT
2178
26-Jun-2024
21:34
ALSHS
Server



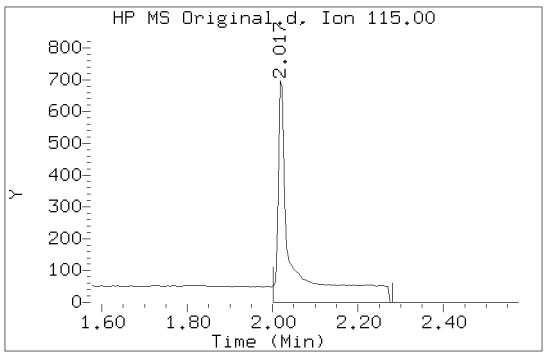
AFTER

MASS
150
AREA
2177
HEIGHT
2124
27-Jun-2024
15:15
ALSHS
Server



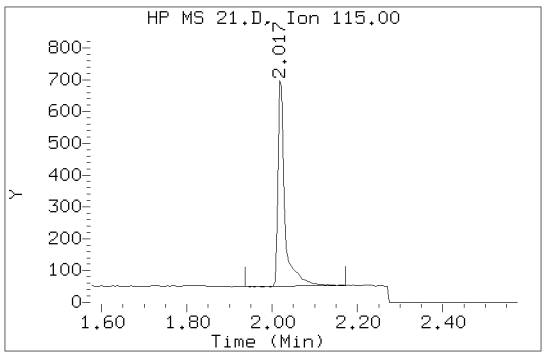
BEFORE

MASS
115
AREA
1595
HEIGHT
697
26-Jun-2024
21:34
ALSHS
Server



AFTER

MASS
115
AREA
728
HEIGHT
645
27-Jun-2024
15:15
ALSHS
Server

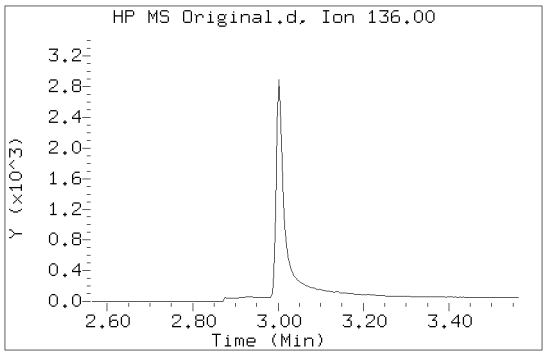


Naphthalene-d8 (1146-65-2)

Reason Code:

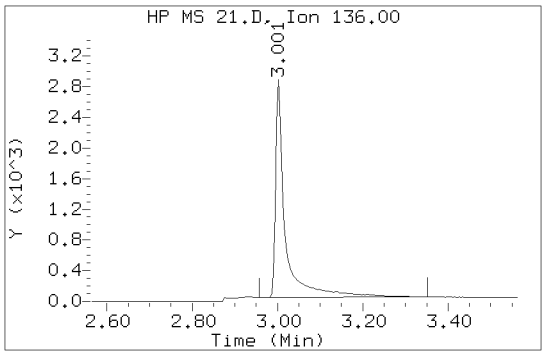
BEFORE

MASS
136
AREA
0
HEIGHT
0
26-Jun-2024
21:34
ALSHS
Server



AFTER

MASS
136
AREA
4476
HEIGHT
2841
27-Jun-2024
15:15
ALSHS
Server



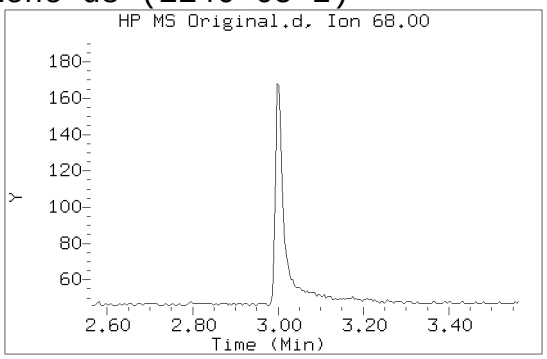
Data File : \\NAHSTWS005\Target\chem\SV6.i\240626a.b\21.D
Inj Date : 26-JUN-2024 21:24
InstruID : SV6.i
LabSampID : HS24060747-05

Naphthalene-d8 (1146-65-2)

Reason Code:

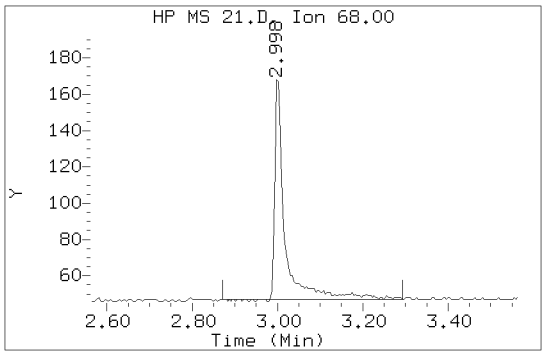
BEFORE

MASS
68
AREA
0
HEIGHT
0
26-Jun-2024
21:34
ALSHS
Server



AFTER

MASS
68
AREA
200
HEIGHT
121
27-Jun-2024
15:15
ALSHS
Server

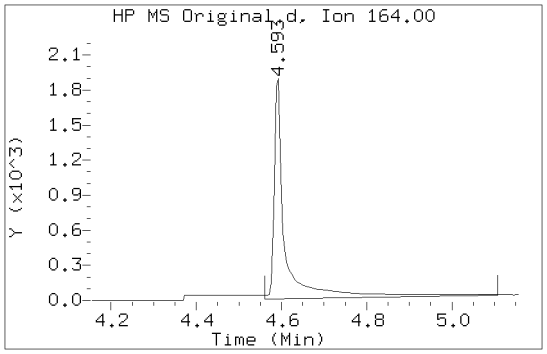


Acenaphthene-d10 (15067-26-2)

Reason Code:

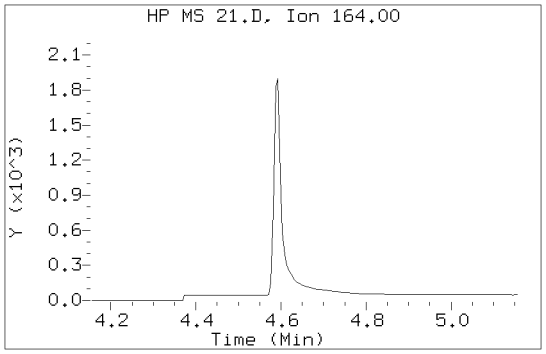
BEFORE

MASS
164
AREA
3334
HEIGHT
1883
26-Jun-2024
21:34
ALSHS
Server



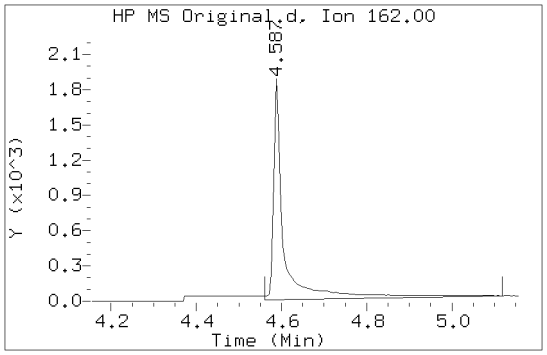
AFTER

MASS
164
AREA
2799
HEIGHT
1851
27-Jun-2024
15:15
ALSHS
Server



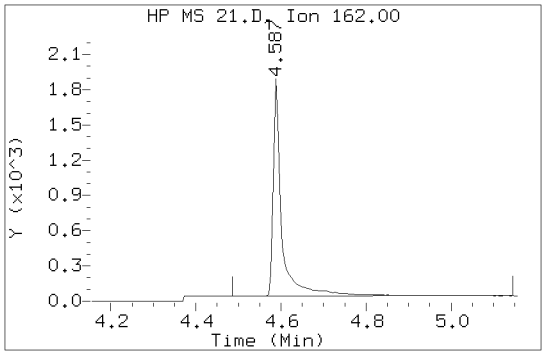
BEFORE

MASS
162
AREA
3174
HEIGHT
1879
26-Jun-2024
21:34
ALSHS
Server



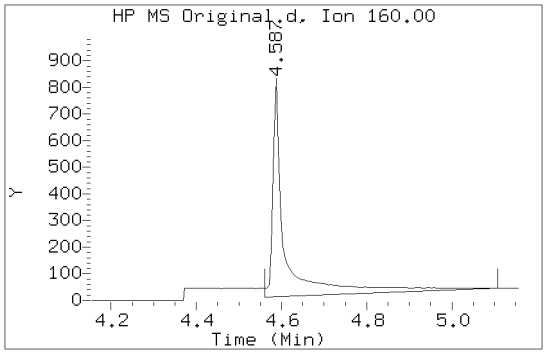
AFTER

MASS
162
AREA
2565
HEIGHT
1846
27-Jun-2024
15:15
ALSHS
Server



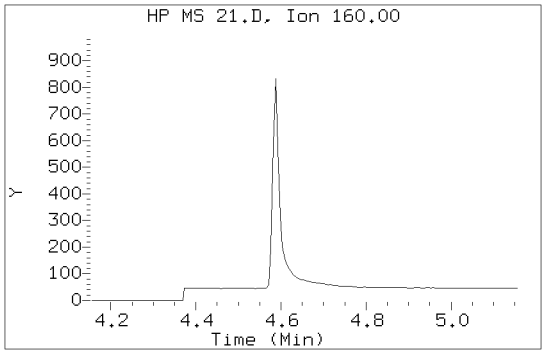
BEFORE

MASS
160
AREA
1658
HEIGHT
820
26-Jun-2024
21:34
ALSHS
Server



AFTER

MASS
160
AREA
1096
HEIGHT
788
27-Jun-2024
15:15
ALSHS
Server



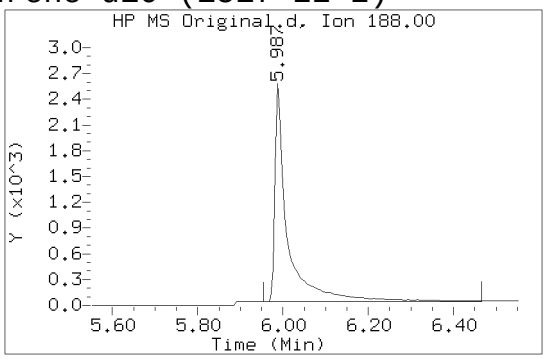
Data File : \\NAHSTWS005\Target\chem\SV6.i\240626a.b\21.D
Inj Date : 26-JUN-2024 21:24
InstruID : SV6.i
LabSampID : HS24060747-05

Phenanthrene-d10 (1517-22-2)

Reason Code:

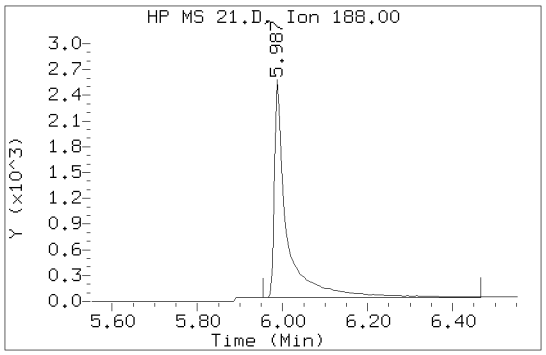
BEFORE

MASS
188
AREA
5238
HEIGHT
2536
26-Jun-2024
21:34
ALSHS
Server



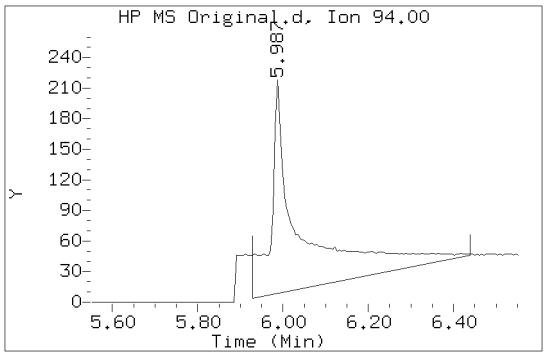
AFTER

MASS
188
AREA
5238
HEIGHT
2536
27-Jun-2024
15:15
ALSHS
Server



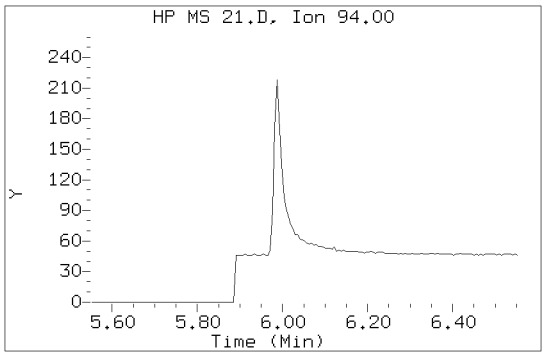
BEFORE

MASS
94
AREA
1003
HEIGHT
209
26-Jun-2024
21:34
ALSHS
Server



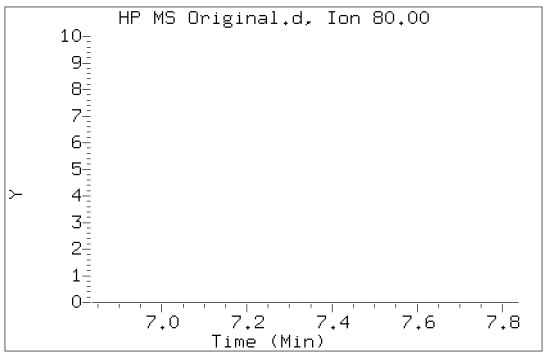
AFTER

MASS
94
AREA
337
HEIGHT
171
27-Jun-2024
15:15
ALSHS
Server



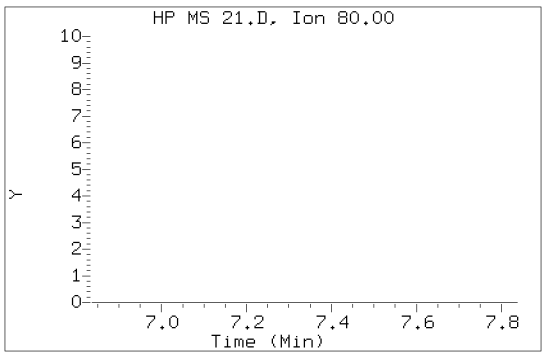
BEFORE

MASS
80
AREA
0
HEIGHT
0
26-Jun-2024
21:34
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
27-Jun-2024
15:15
ALSHS
Server

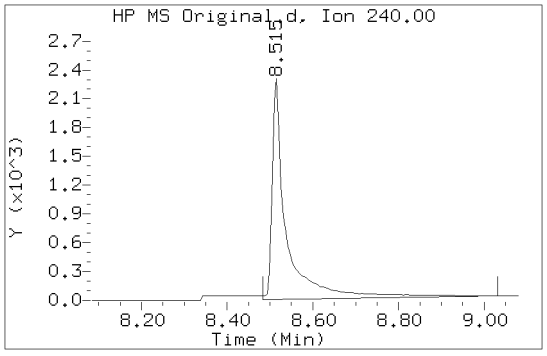


Chrysene-d12 (1719-03-5)

Reason Code:

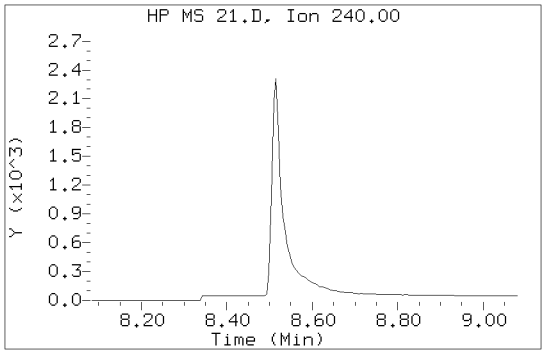
BEFORE

MASS
240
AREA
5382
HEIGHT
2296
26-Jun-2024
21:34
ALSHS
Server



AFTER

MASS
240
AREA
4815
HEIGHT
2263
27-Jun-2024
15:15
ALSHS
Server

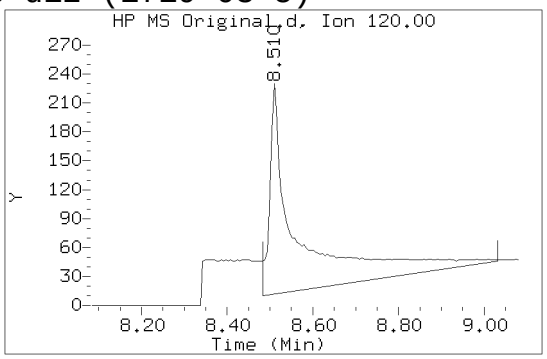


Data File : \\NAHSTWS005\Target\chem\SV6.i\240626a.b\21.D
Inj Date : 26-JUN-2024 21:24
InstruID : SV6.i
LabSampID : HS24060747-05

Chrysene-d12 (1719-03-5)

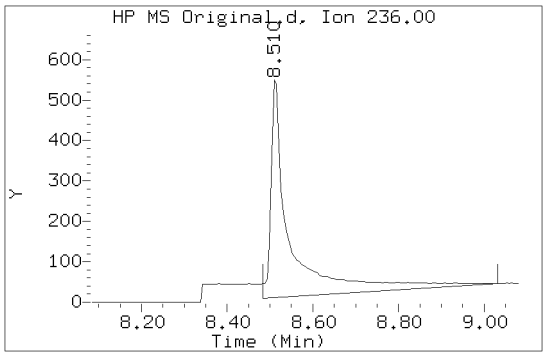
BEFORE

MASS
120
AREA
991
HEIGHT
218
26-Jun-2024
21:34
ALSHS
Server



BEFORE

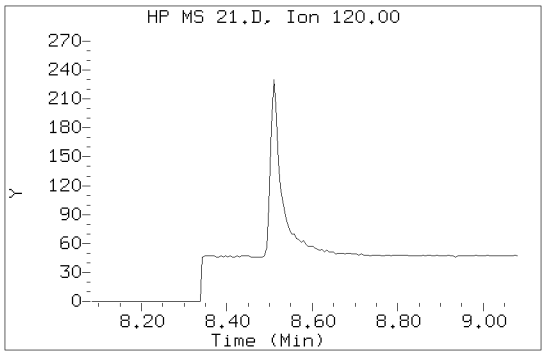
MASS
236
AREA
1690
HEIGHT
539
26-Jun-2024
21:34
ALSHS
Server



Reason Code:

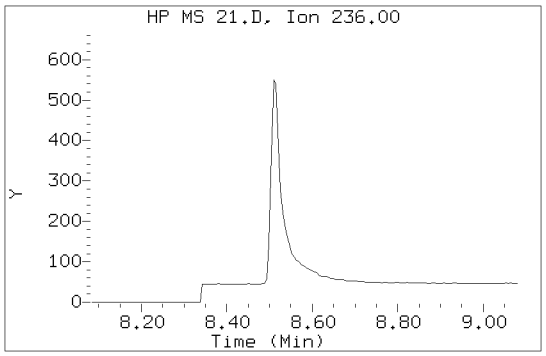
AFTER

MASS
120
AREA
359
HEIGHT
183
27-Jun-2024
15:15
ALSHS
Server



AFTER

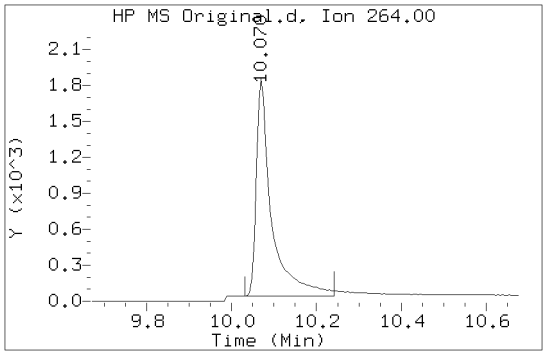
MASS
236
AREA
1125
HEIGHT
505
27-Jun-2024
15:15
ALSHS
Server



Perylene-d12 (1520-96-3)

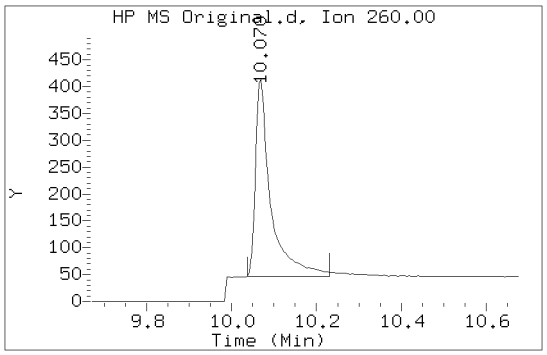
BEFORE

MASS
264
AREA
4535
HEIGHT
1809
26-Jun-2024
21:34
ALSHS
Server



BEFORE

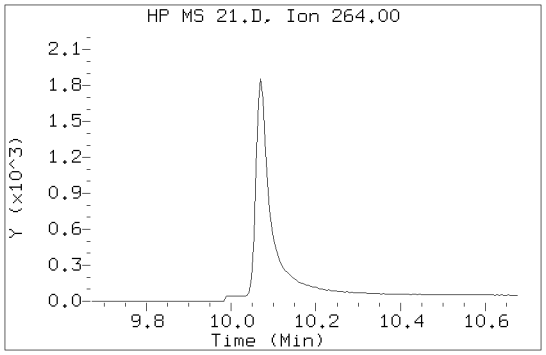
MASS
260
AREA
932
HEIGHT
367
26-Jun-2024
21:34
ALSHS
Server



Reason Code:

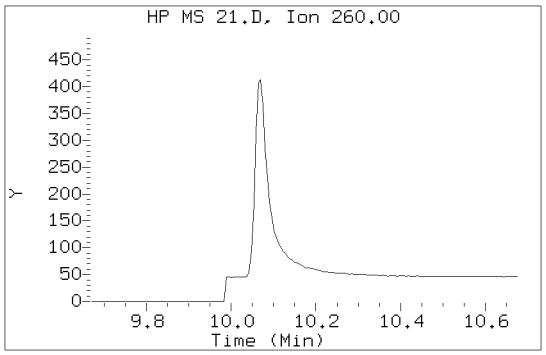
AFTER

MASS
264
AREA
4865
HEIGHT
1808
27-Jun-2024
15:15
ALSHS
Server



AFTER

MASS
260
AREA
997
HEIGHT
367
27-Jun-2024
15:15
ALSHS
Server



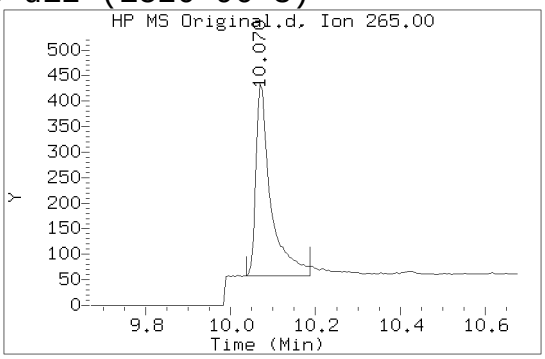
Data File : \\NAHSTWS005\Target\chem\SV6.i\240626a.b\21.D
Inj Date : 26-JUN-2024 21:24
InstruID : SV6.i
LabSampID : HS24060747-05

Perylene-d12 (1520-96-3)

Reason Code:

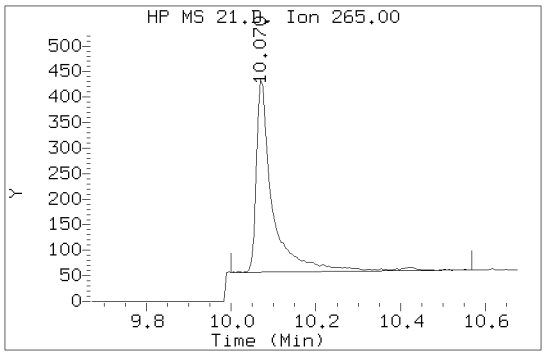
BEFORE

MASS
265
AREA
921
HEIGHT
376
26-Jun-2024
21:34
ALSHS
Server



AFTER

MASS
265
AREA
1004
HEIGHT
376
27-Jun-2024
15:15
ALSHS
Server

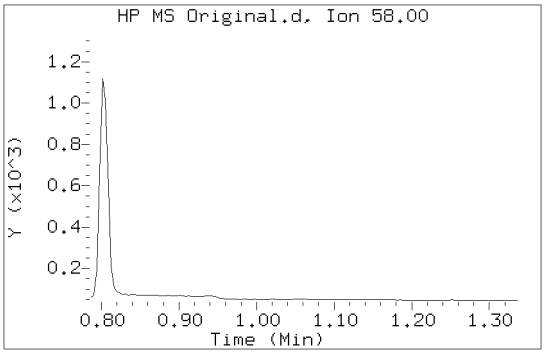


1,4-Dioxane ()

Reason Code:

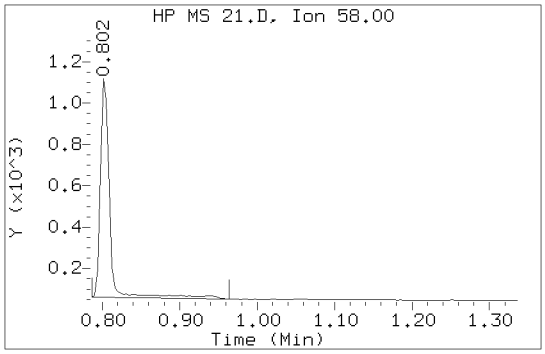
BEFORE

MASS
58
AREA
0
HEIGHT
0
26-Jun-2024
21:34
ALSHS
Server



AFTER

MASS
58
AREA
875
HEIGHT
1057
27-Jun-2024
15:15
ALSHS
Server



BEFORE

MASS
88
AREA
0
HEIGHT
0
26-Jun-2024
21:34
ALSHS
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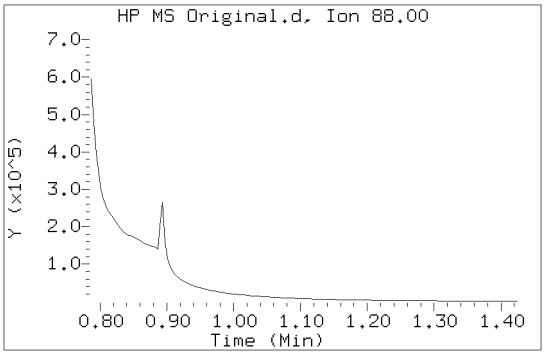
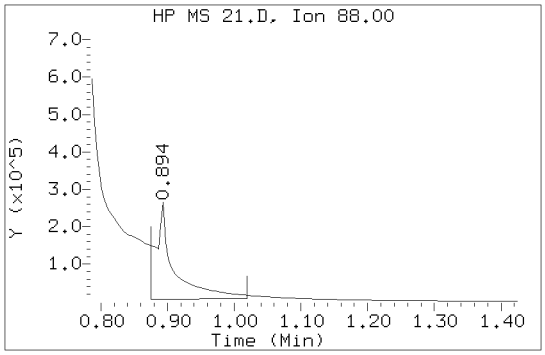


AFTER

MASS
88
AREA
491627
HEIGHT
258373
27-Jun-2024
15:15
ALSHS
Server



Data File: \\NAHSTWS005\Target\chem\SV6.i\240626a.b\22.D Page 1
Report Date: 27-Jun-2024 14:51

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240626a.b\22.D
Lab Smp Id: SIMDX-0.08
Inj Date : 26-JUN-2024 21:43
Operator : LG Inst ID: SV6.i
Smp Info : SIMDX-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240626a.b\DXSIM.m
Meth Date : 22-Jun-2024 12:47 SV6.i Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7015

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)	
* 20 1,4-Dichlorobenzene-d4	152	2.022	2.080	(1.000)	2218	0.10000	(aQ)	
* 45 Naphthalene-d8	136	2.935	3.063	(1.000)	298	0.10000		
$ 33 Nitrobenzene-d5	82	2.430	2.488	(0.828)	2748	3.07171	3.072(AR)	
* 86 Acenaphthene-d10	164	4.592	4.654	(1.000)	3282	0.10000		
$ 69 2-Fluorobiphenyl	172	3.989	4.052	(0.869)	4303	0.08577	0.08577	
* 126 Phenanthrene-d10	188	5.987	6.054	(1.000)	5899	0.10000		
$ 158 4-Terphenyl-d14	244	7.406	7.618	(1.000)	156			(aQR)
* 198 Perylene-d12	264	10.069	10.174	(1.000)	4722	0.10000		

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.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240626a.b\22.D

Date : 26-JUN-2024 21:43

Client ID:

Instrument: SV6.i

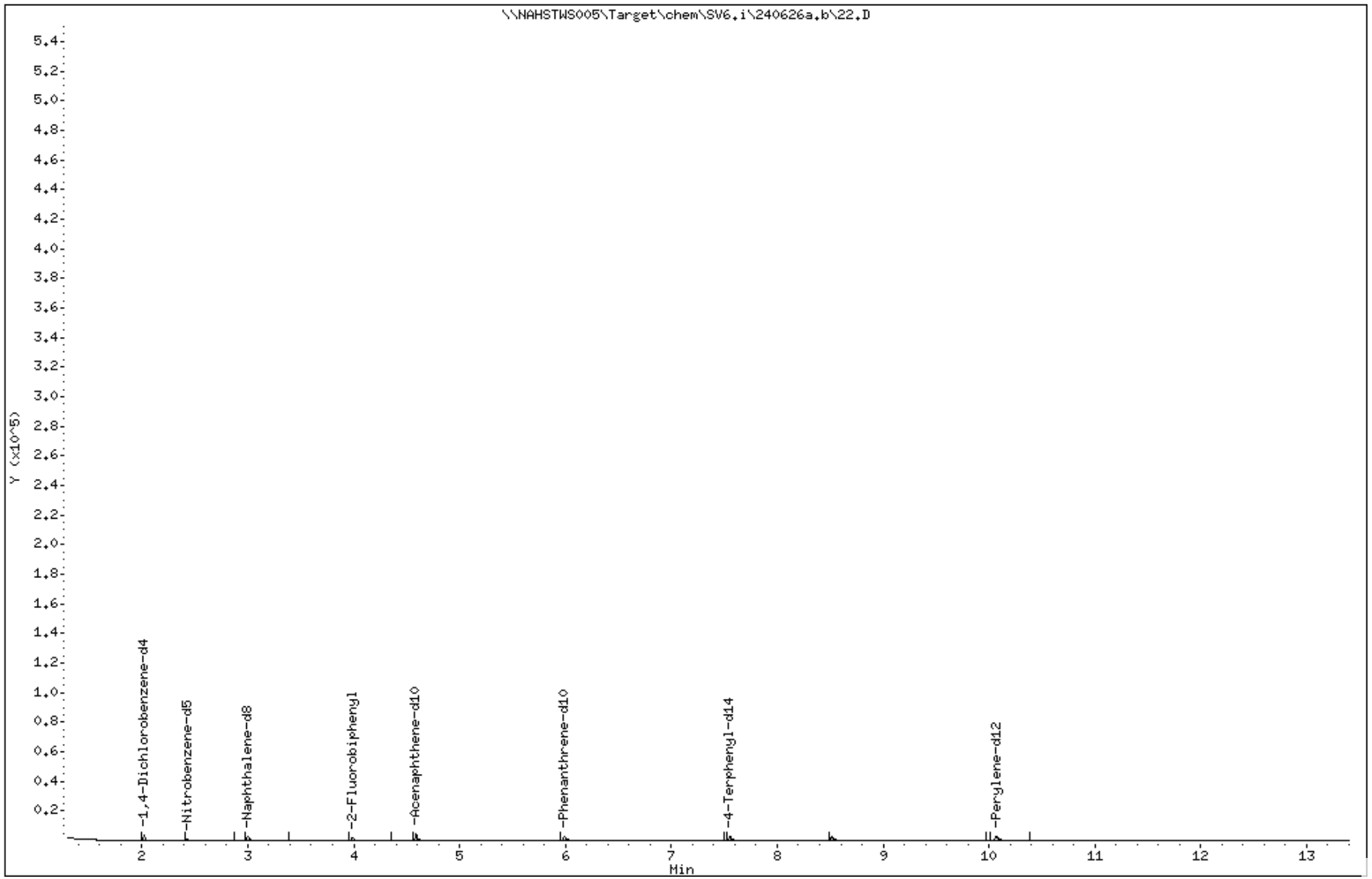
Sample Info: SIMDX-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File : \\NAHSTWS005\Target\chem\SV6.i\240626a.b\22.D
Inj Date : 26-JUN-2024 21:43
InstruID : SV6.i
LabSampID : SIMDX-0.08

NO MANUAL INTEGRATIONS

right solutions.
right partner.

RawData

<textMethods>

Workorder

HS24060747

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

07/23/2024

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\SV6.i\240418.b\01.D Page 1
Report Date: 17-Jul-2024 16:41

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\01.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 18-APR-2024 10:39
Operator : smith Inst ID: SV6.i
Smp Info : DFTPP;DFTPP;3;;DFTPP
Misc Info :
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DFTPP.m
Meth Date : 14-Mar-2023 15:58 Linh.Pham Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: NAHSTW7095

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
4.170	5.571	-1.401	198	262912			0.00- 100.00	71.46
4.170	6.357	-2.187	51	62088			10.00- 80.00	23.62
4.170	6.357	-2.187	68	1330			0.00- 2.00	1.76
4.170	6.357	-2.187	69	75608			0.00- 0.00	28.76
4.170	6.357	-2.187	70	408			0.00- 2.00	0.54
4.170	6.357	-2.187	127	104440			10.00- 80.00	39.72
4.170	6.357	-2.187	197	996			0.00- 2.00	0.38
4.170	6.357	-2.187	199	17632			5.00- 9.00	6.71
4.170	6.357	-2.187	275	79880			10.00- 60.00	30.38
4.170	6.357	-2.187	365	10437			1.00- 100.00	3.97
4.170	6.357	-2.187	441	53968			0.01- 99.99	74.32
4.170	6.357	-2.187	442	367904			50.00- 150.00	139.93
4.170	6.357	-2.187	443	72612			15.00- 24.00	19.74

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	23.62
68	Less than 2.00% of mass 69	0.51 (1.76)
69	Mass 69 relative abundance	28.76
70	Less than 2.00% of mass 69	0.16 (0.54)
127	10.00 - 80.00% of mass 198	39.72
197	Less than 2.00% of mass 198	0.38
199	5.00 - 9.00% of mass 198	6.71
275	10.00 - 60.00% of mass 198	30.38
365	1.00 - 100.00% of mass 198	3.97
441	Present, but less than mass 443	20.53
442	50.00 - 150.00% of mass 198	139.93
443	15.00 - 24.00% of mass 442	27.62 (19.74)

Data File: 01.D
Spectrum: Average Spectrum: 4.165 to 4.170 min. (SUB)
Location of Maximum: 442.00
Number of points: 308

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	244	129.00	40624	208.00	2115	300.00	77
38.00	784	130.00	3575	209.00	787	301.00	225
39.00	4091	131.00	702	210.00	691	302.00	396
40.00	241	132.00	334	211.00	2619	303.00	2580
41.00	102	133.00	85	212.00	316	304.00	619
45.00	185	134.00	1114	213.00	196	308.00	261
47.00	77	135.00	3151	215.00	724	309.00	174
49.00	408	136.00	1211	216.00	1479	310.00	240
50.00	16528	137.00	1465	217.00	18280	312.00	105
51.00	62088	138.00	288	218.00	2273	313.00	118
52.00	3211	139.00	258	219.00	275	314.00	1045
53.00	86	140.00	581	221.00	13468	315.00	2330
55.00	354	141.00	5048	223.00	4413	316.00	1380
56.00	2225	142.00	1704	224.00	39488	317.00	214
57.00	4437	143.00	1145	225.00	9861	321.00	708
58.00	213	144.00	319	226.00	1237	322.00	502
59.00	93	145.00	259	227.00	15741	323.00	7637
61.00	820	146.00	847	228.00	2192	324.00	1248
62.00	996	147.00	2610	229.00	3406	325.00	83
63.00	2992	148.00	5531	230.00	654	326.00	213
64.00	404	149.00	1260	231.00	1395	327.00	1339
65.00	1489	150.00	306	232.00	263	328.00	739
66.00	77	151.00	689	233.00	369	329.00	197
68.00	1330	152.00	397	234.00	998	332.00	530
69.00	75608	153.00	1674	235.00	1288	333.00	729
70.00	408	154.00	1331	236.00	713	334.00	5116
73.00	520	155.00	2941	237.00	1314	335.00	1387
74.00	7472	156.00	4519	238.00	197	336.00	81
75.00	12234	157.00	943	239.00	654	339.00	89
76.00	4036	158.00	851	240.00	561	341.00	826
77.00	79680	159.00	842	241.00	1046	342.00	249
78.00	5168	160.00	1695	242.00	2012	346.00	1618
79.00	5702	161.00	2544	243.00	2294	347.00	364
80.00	4359	162.00	776	244.00	32624	351.00	166
81.00	6057	163.00	166	245.00	4479	352.00	2331
82.00	1737	164.00	285	246.00	5704	353.00	1469
83.00	1343	165.00	2024	247.00	1212	354.00	2530
84.00	162	166.00	1773	248.00	329	355.00	561
85.00	1154	167.00	10349	249.00	1270	359.00	260
86.00	1464	168.00	4423	250.00	278	364.00	112
87.00	753	169.00	868	251.00	337	365.00	10437
88.00	337	170.00	367	252.00	432	366.00	1414
89.00	75	171.00	514	253.00	740	367.00	75
91.00	1569	172.00	960	255.00	170688	370.00	233
92.00	1659	173.00	1497	256.00	25096	371.00	588

93.00	10069	174.00	2141	257.00	1983	372.00	4617
94.00	680	175.00	4519	258.00	8939	373.00	1106
95.00	92	176.00	1409	259.00	1582	383.00	1150
96.00	425	177.00	2174	260.00	250	384.00	378
97.00	199	178.00	726	261.00	243	385.00	83
98.00	7421	179.00	8742	264.00	295	390.00	634
99.00	5189	180.00	5928	265.00	3703	391.00	442
100.00	450	181.00	2765	266.00	604	392.00	339
101.00	3694	182.00	411	270.00	214	401.00	178
102.00	194	183.00	299	271.00	344	402.00	1827
103.00	1310	184.00	735	272.00	599	403.00	2559
104.00	2350	185.00	4557	273.00	5441	404.00	850
105.00	2071	186.00	34080	274.00	13783	405.00	78
106.00	852	187.00	9952	275.00	79880	415.00	111
107.00	28048	188.00	866	276.00	10609	421.00	2499
108.00	4375	189.00	2159	277.00	6056	422.00	2422
109.00	546	190.00	335	278.00	997	423.00	17496
110.00	51232	191.00	1054	279.00	109	424.00	3958
111.00	8170	192.00	2816	281.00	100	425.00	349
112.00	914	193.00	3142	282.00	278	435.00	169
113.00	342	194.00	666	283.00	828	436.00	426
116.00	1637	195.00	610	284.00	410	437.00	287
117.00	21584	196.00	8042	285.00	1021	438.00	177
118.00	1450	197.00	996	286.00	242	439.00	927
119.00	133	198.00	262912	289.00	253	441.00	53968
120.00	336	199.00	17632	290.00	222	442.00	367872
121.00	78	200.00	1329	291.00	150	443.00	72608
122.00	1884	201.00	1426	292.00	373	444.00	7175
123.00	3095	203.00	1983	293.00	1312	445.00	468
124.00	1181	204.00	9352	294.00	366		
125.00	1276	205.00	16075	296.00	20920		
127.00	104440	206.00	67752	297.00	2863		
128.00	7946	207.00	8670	298.00	101		

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\01.D

Date : 18-APR-2024 10:39

Client ID: DFTPP

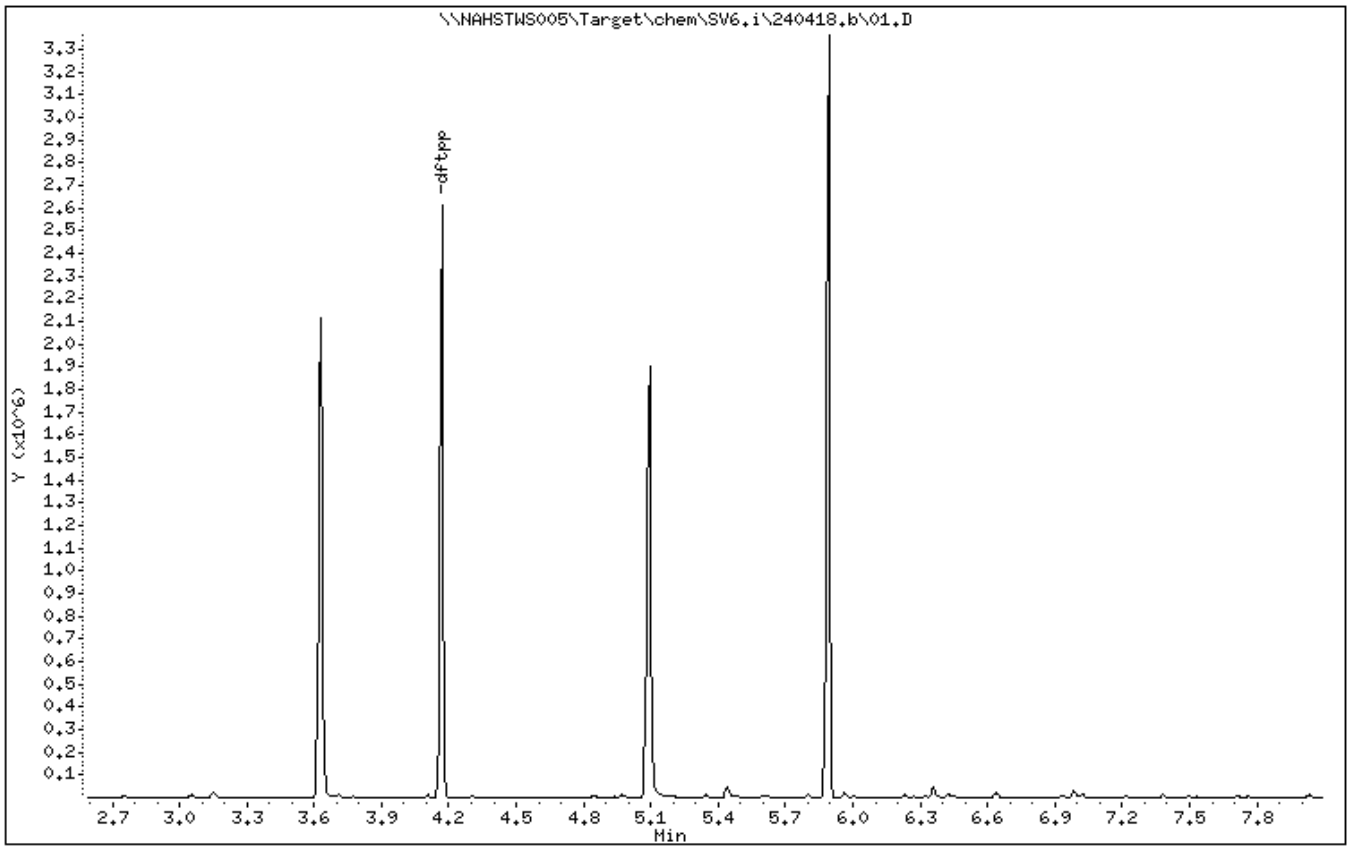
Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS

Column diameter: 0.25



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\01.D

Date : 18-APR-2024 10:39

Client ID: DFTPP

Instrument: SV6.i

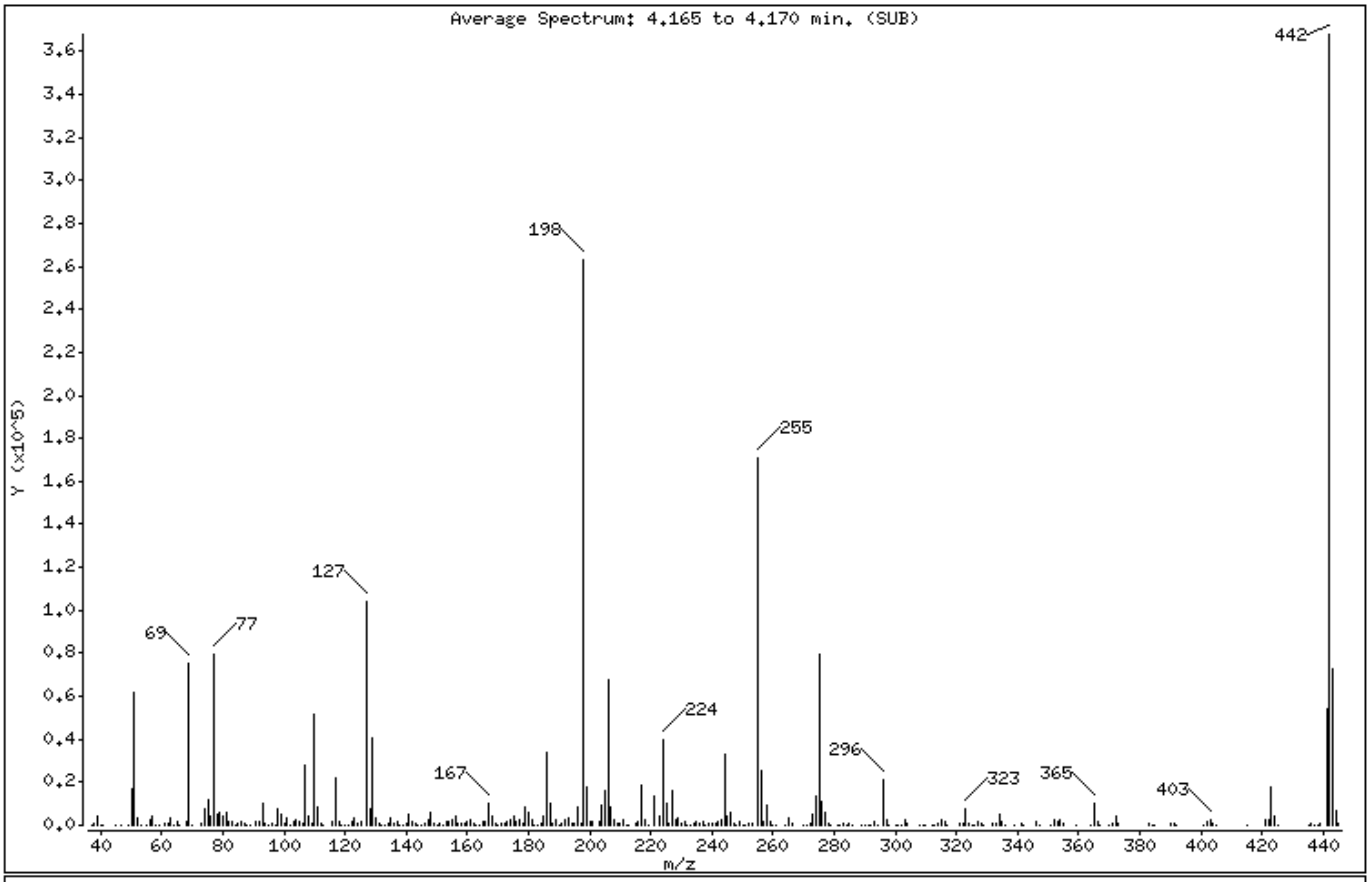
Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	23.62
68	Less than 2.00% of mass 69	0.51 (1.76)
69	Mass 69 relative abundance	28.76
70	Less than 2.00% of mass 69	0.16 (0.54)
127	10.00 - 80.00% of mass 198	39.72
197	Less than 2.00% of mass 198	0.38
199	5.00 - 9.00% of mass 198	6.71
275	10.00 - 60.00% of mass 198	30.38
365	1.00 - 100.00% of mass 198	3.97
441	Present, but less than mass 443	20.53
442	50.00 - 150.00% of mass 198	139.93
443	15.00 - 24.00% of mass 442	27.62 (19.74)

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\01.D Page 3

Date : 18-APR-2024 10:39

Client ID: DFTPP Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS Column diameter: 0.25

Data File: 01.D
Spectrum: Average Spectrum: 4.165 to 4.170 min. (SUB)
Location of Maximum: 442.00
Number of points: 308

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	244	129.00	40624	208.00	2115	300.00	77
38.00	784	130.00	3575	209.00	787	301.00	225
39.00	4091	131.00	702	210.00	691	302.00	396
40.00	241	132.00	334	211.00	2619	303.00	2580
41.00	102	133.00	85	212.00	316	304.00	619
45.00	185	134.00	1114	213.00	196	308.00	261
47.00	77	135.00	3151	215.00	724	309.00	174
49.00	408	136.00	1211	216.00	1479	310.00	240
50.00	16528	137.00	1465	217.00	18280	312.00	105
51.00	62088	138.00	288	218.00	2273	313.00	118
52.00	3211	139.00	258	219.00	275	314.00	1045
53.00	86	140.00	581	221.00	13468	315.00	2330
55.00	354	141.00	5048	223.00	4413	316.00	1380
56.00	2225	142.00	1704	224.00	39488	317.00	214
57.00	4437	143.00	1145	225.00	9861	321.00	708
58.00	213	144.00	319	226.00	1237	322.00	502
59.00	93	145.00	259	227.00	15741	323.00	7637
61.00	820	146.00	847	228.00	2192	324.00	1248
62.00	996	147.00	2610	229.00	3406	325.00	83
63.00	2992	148.00	5531	230.00	654	326.00	213
64.00	404	149.00	1260	231.00	1395	327.00	1339
65.00	1489	150.00	306	232.00	263	328.00	739
66.00	77	151.00	689	233.00	369	329.00	197
68.00	1330	152.00	397	234.00	998	332.00	530
69.00	75608	153.00	1674	235.00	1288	333.00	729
70.00	408	154.00	1331	236.00	713	334.00	5116
73.00	520	155.00	2941	237.00	1314	335.00	1387
74.00	7472	156.00	4519	238.00	197	336.00	81
75.00	12234	157.00	943	239.00	654	339.00	89
76.00	4036	158.00	851	240.00	561	341.00	826
77.00	79680	159.00	842	241.00	1046	342.00	249
78.00	5168	160.00	1695	242.00	2012	346.00	1618
79.00	5702	161.00	2544	243.00	2294	347.00	364
80.00	4359	162.00	776	244.00	32624	351.00	166
81.00	6057	163.00	166	245.00	4479	352.00	2331

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\01.D Page 4

Date : 18-APR-2024 10:39

Client ID: DFTPP Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS Column diameter: 0.25

Data File: 01.D
Spectrum: Average Spectrum: 4.165 to 4.170 min. (SUB)
Location of Maximum: 442.00
Number of points: 308

m/z	Y	m/z	Y	m/z	Y	m/z	Y
82.00	1737	164.00	285	246.00	5704	353.00	1469
83.00	1343	165.00	2024	247.00	1212	354.00	2530
84.00	162	166.00	1773	248.00	329	355.00	561
85.00	1154	167.00	10349	249.00	1270	359.00	260
86.00	1464	168.00	4423	250.00	278	364.00	112
87.00	753	169.00	868	251.00	337	365.00	10437
88.00	337	170.00	367	252.00	432	366.00	1414
89.00	75	171.00	514	253.00	740	367.00	75
91.00	1569	172.00	960	255.00	170688	370.00	233
92.00	1659	173.00	1497	256.00	25096	371.00	588
93.00	10069	174.00	2141	257.00	1983	372.00	4617
94.00	680	175.00	4519	258.00	8939	373.00	1106
95.00	92	176.00	1409	259.00	1582	383.00	1150
96.00	425	177.00	2174	260.00	250	384.00	378
97.00	199	178.00	726	261.00	243	385.00	83
98.00	7421	179.00	8742	264.00	295	390.00	634
99.00	5189	180.00	5928	265.00	3703	391.00	442
100.00	450	181.00	2765	266.00	604	392.00	339
101.00	3694	182.00	411	270.00	214	401.00	178
102.00	194	183.00	299	271.00	344	402.00	1827
103.00	1310	184.00	735	272.00	599	403.00	2559
104.00	2350	185.00	4557	273.00	5441	404.00	850
105.00	2071	186.00	34080	274.00	13783	405.00	78
106.00	852	187.00	9952	275.00	79880	415.00	111
107.00	28048	188.00	866	276.00	10609	421.00	2499
108.00	4375	189.00	2159	277.00	6056	422.00	2422
109.00	546	190.00	335	278.00	997	423.00	17496
110.00	51232	191.00	1054	279.00	109	424.00	3958
111.00	8170	192.00	2816	281.00	100	425.00	349
112.00	914	193.00	3142	282.00	278	435.00	169
113.00	342	194.00	666	283.00	828	436.00	426
116.00	1637	195.00	610	284.00	410	437.00	287
117.00	21584	196.00	8042	285.00	1021	438.00	177
118.00	1450	197.00	996	286.00	242	439.00	927
119.00	133	198.00	262912	289.00	253	441.00	53968

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\01.D Page 5

Date : 18-APR-2024 10:39

Client ID: DFTPP Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS Column diameter: 0.25

Data File: 01.D
Spectrum: Average Spectrum: 4.165 to 4.170 min. (SUB)
Location of Maximum: 442.00
Number of points: 308

m/z	Y	m/z	Y	m/z	Y	m/z	Y
120.00	336	199.00	17632	290.00	222	442.00	367872
121.00	78	200.00	1329	291.00	150	443.00	72608
122.00	1884	201.00	1426	292.00	373	444.00	7175
123.00	3095	203.00	1983	293.00	1312	445.00	468
124.00	1181	204.00	9352	294.00	366		
125.00	1276	205.00	16075	296.00	20920		
127.00	104440	206.00	67752	297.00	2863		
128.00	7946	207.00	8670	298.00	101		

Data File : \\nahstws005\target\chem\sv6.i\240418.b\01.d
Inj Date : 18-APR-2024 10:39
InstruID : SV6.i
LabSampID : DFTPP

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D Page 1
Report Date: 17-Jul-2024 16:41

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D
Lab Smp Id: 14DX-0.08 Client Smp ID: 14DX-0.08
Inj Date : 18-APR-2024 12:24
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 17-Jul-2024 16:39 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 12:24 Cal File: 03A.D
Als bottle: 3 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

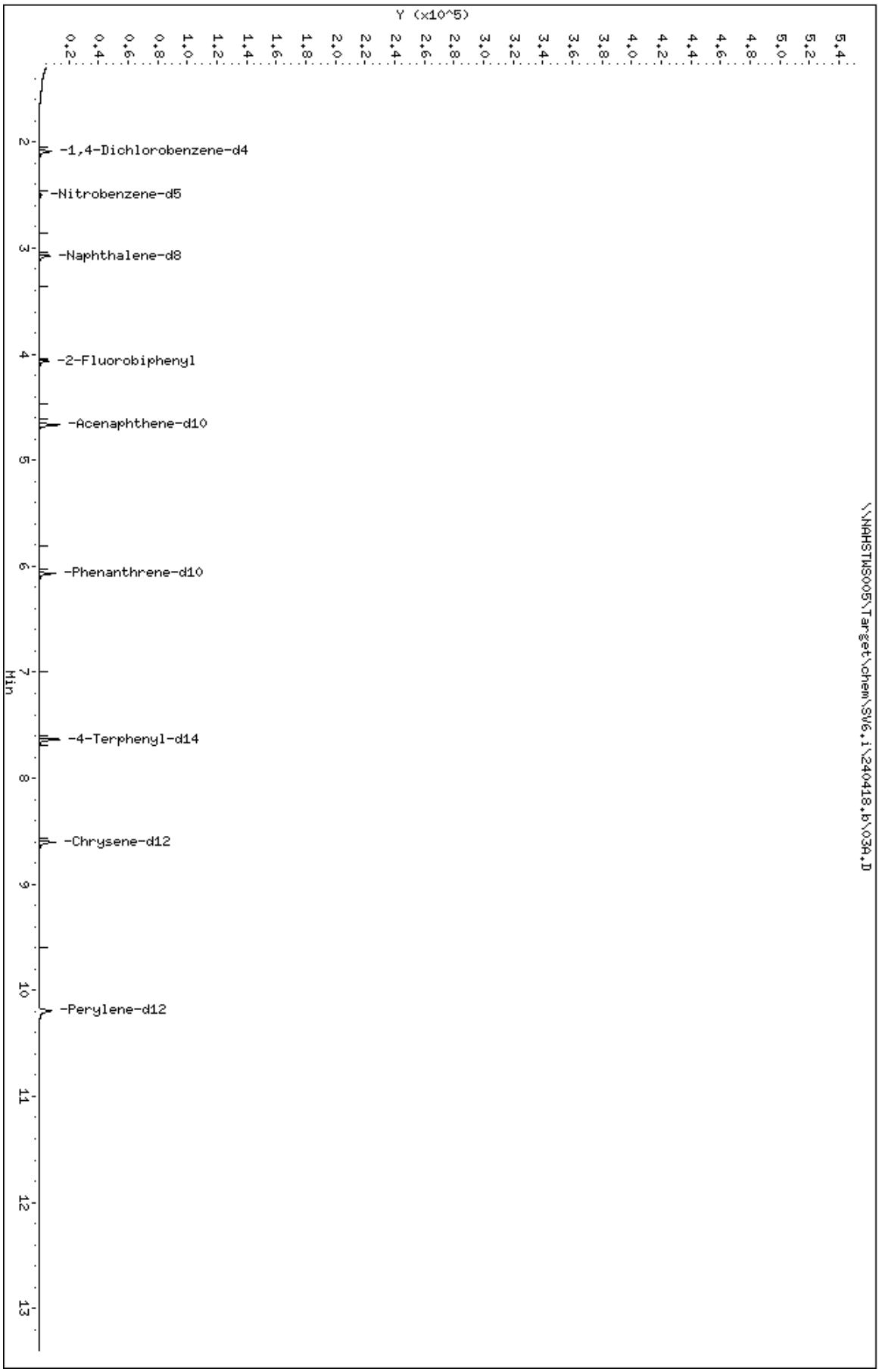
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	2.089	2.089	(1.000)	3251	0.10000	(aQM)
* 45 Naphthalene-d8	136	3.076	3.076	(1.000)	10577	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.497	2.502	(0.812)	2161	0.08000	0.06806(M)
* 86 Acenaphthene-d10	164	4.665	4.671	(1.000)	6678	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.064	4.067	(0.871)	6691	0.08000	0.06554(M)
* 126 Phenanthrene-d10	188	6.066	6.065	(1.000)	13232	0.10000	(M)
* 182 Chrysene-d12	240	8.604	8.599	(1.000)	12125	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.636	7.630	(0.887)	14251	0.08000	0.05769(M)
* 198 Perylene-d12	264	10.195	10.189	(1.000)	11098	0.10000	(M)
1 1,4-Dioxane	58	0.834	0.820	(0.400)	503	0.08000	0.07223(QM)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D
Date : 18-APR-2024 12:24
Client ID: 14DX-0.08
Sample Info: 14DX-0.08
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SV6.i
Operator: LG
Column diameter: 0.28

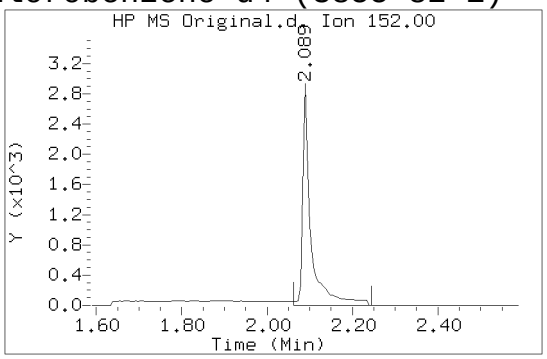


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D
Inj Date : 18-APR-2024 12:24
InstruID : SV6.i
LabSampID : 14DX-0.08

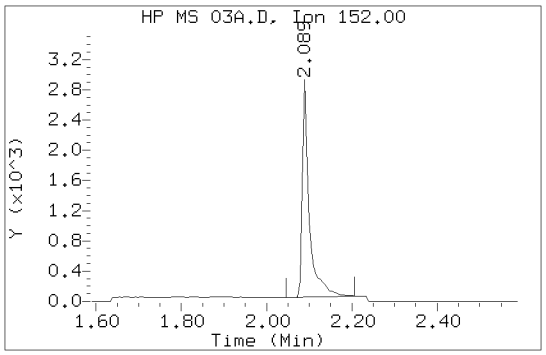
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

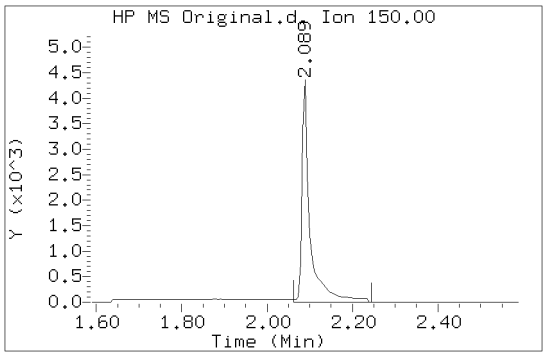
BEFORE
MASS
152
AREA
3915
HEIGHT
2934
18-Apr-2024
12:42
ALSHS
Server



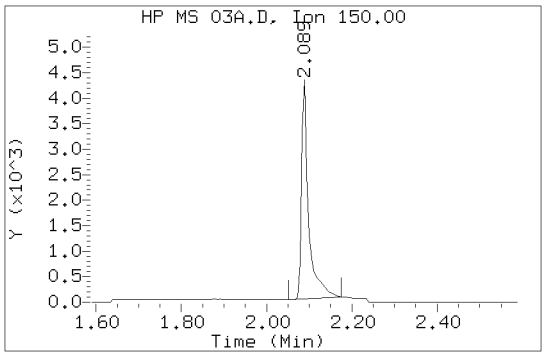
AFTER
MASS
152
AREA
3251
HEIGHT
2876
28-May-2024
13:05



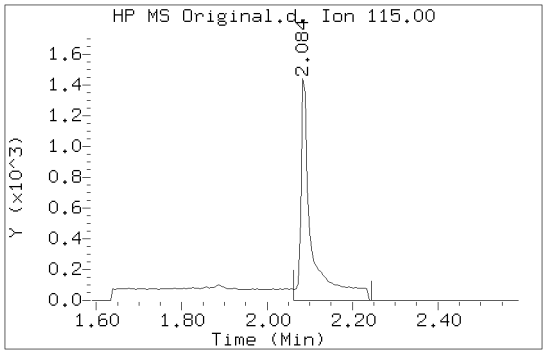
BEFORE
MASS
150
AREA
5788
HEIGHT
4359
18-Apr-2024
12:42
ALSHS
Server



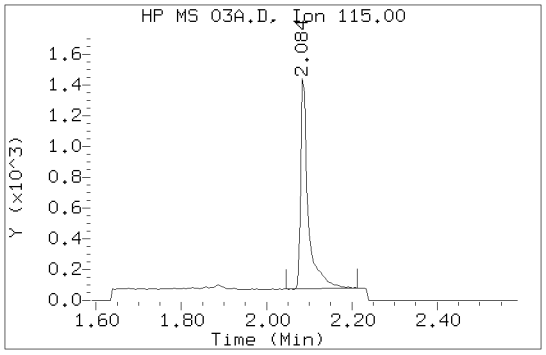
AFTER
MASS
150
AREA
4924
HEIGHT
4290
28-May-2024
13:05



BEFORE
MASS
115
AREA
2519
HEIGHT
1442
18-Apr-2024
12:42
ALSHS
Server



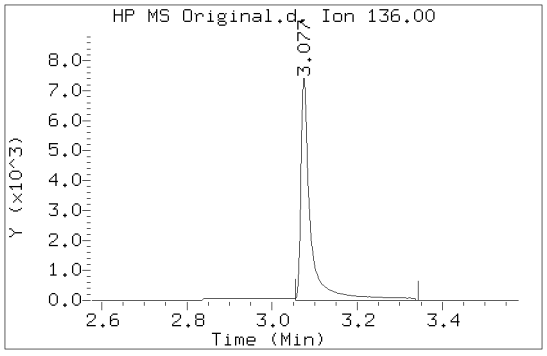
AFTER
MASS
115
AREA
1685
HEIGHT
1365
28-May-2024
13:05



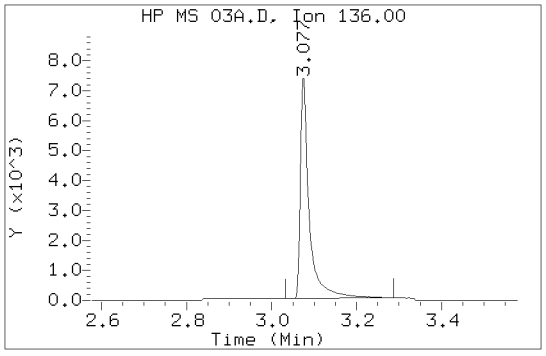
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
11842
HEIGHT
7402
18-Apr-2024
12:42
ALSHS
Server



AFTER
MASS
136
AREA
10577
HEIGHT
7340
28-May-2024
13:05



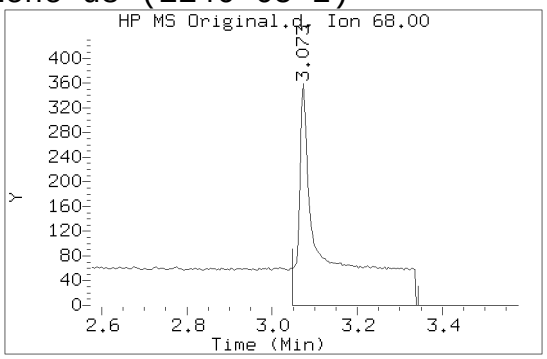
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D
Inj Date : 18-APR-2024 12:24
InstruID : SV6.i
LabSampID : 14DX-0.08

Naphthalene-d8 (1146-65-2)

Reason Code:

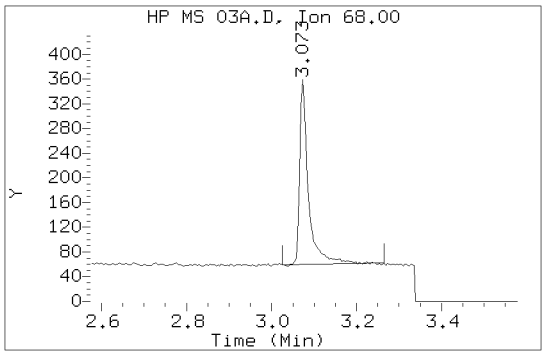
BEFORE

MASS
68
AREA
1473
HEIGHT
359
18-Apr-2024
12:42
ALSHS
Server



AFTER

MASS
68
AREA
417
HEIGHT
299
28-May-2024
13:05

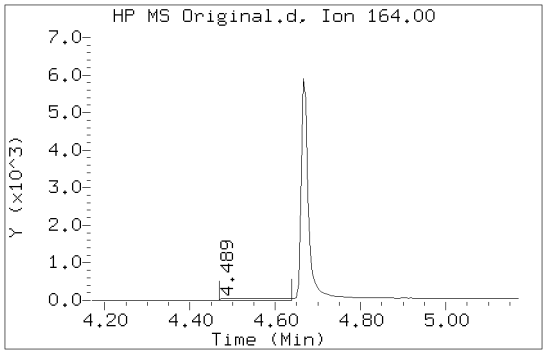


Acenaphthene-d10 (15067-26-2)

Reason Code:

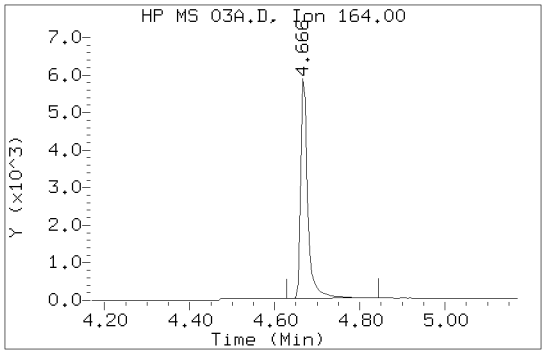
BEFORE

MASS
164
AREA
527
HEIGHT
53
18-Apr-2024
12:42
ALSHS
Server



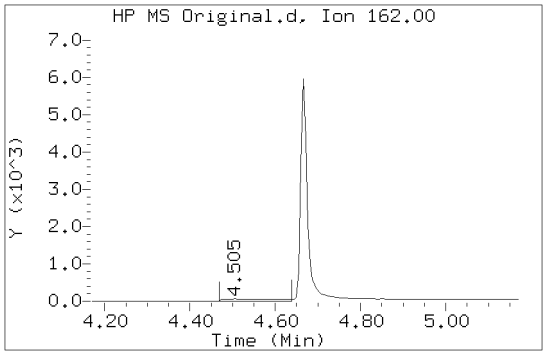
AFTER

MASS
164
AREA
6678
HEIGHT
5851
28-May-2024
13:05



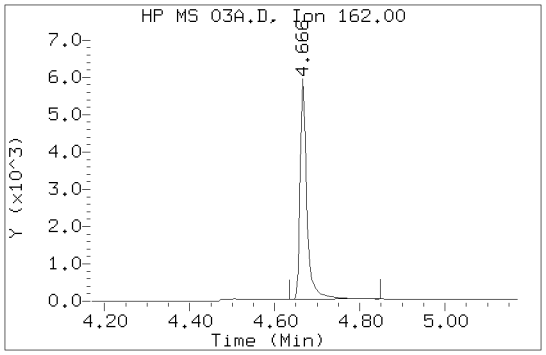
BEFORE

MASS
162
AREA
540
HEIGHT
61
18-Apr-2024
12:42
ALSHS
Server



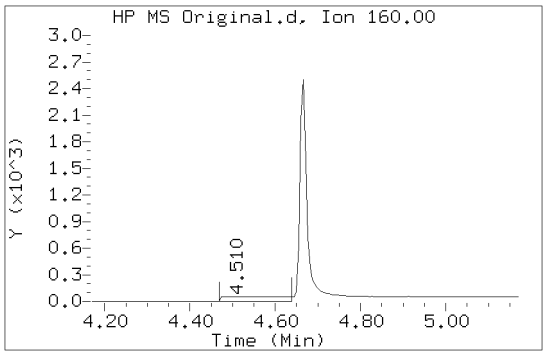
AFTER

MASS
162
AREA
6371
HEIGHT
5906
28-May-2024
13:05



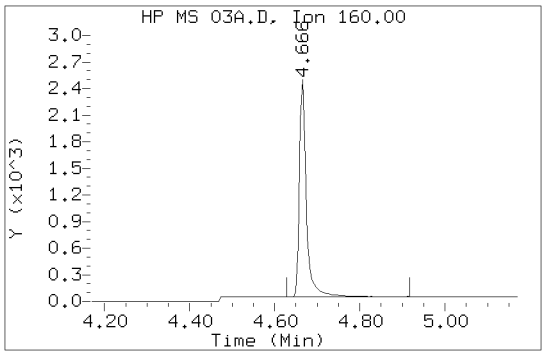
BEFORE

MASS
160
AREA
507
HEIGHT
51
18-Apr-2024
12:42
ALSHS
Server



AFTER

MASS
160
AREA
2763
HEIGHT
2449
28-May-2024
13:05

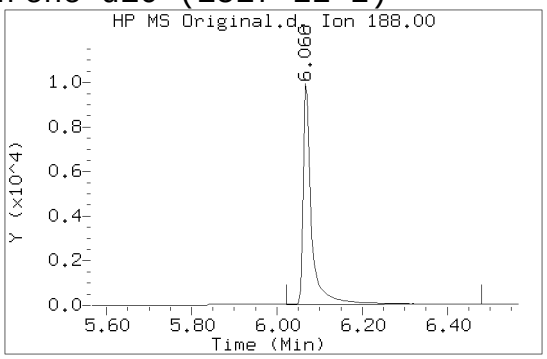


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D
Inj Date : 18-APR-2024 12:24
InstruID : SV6.i
LabSampID : 14DX-0.08

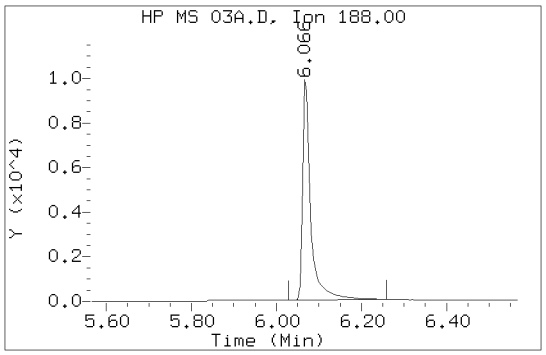
Phenanthrene-d10 (1517-22-2)

Reason Code:

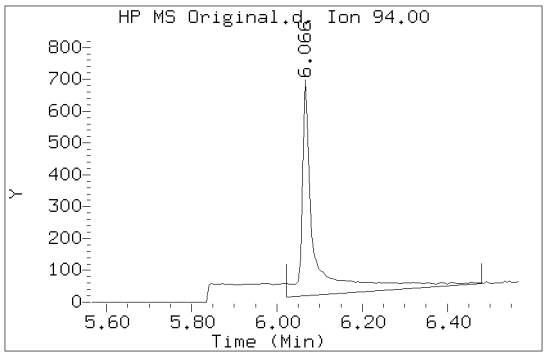
BEFORE
MASS
188
AREA
14212
HEIGHT
9923
18-Apr-2024
12:42
ALSHS
Server



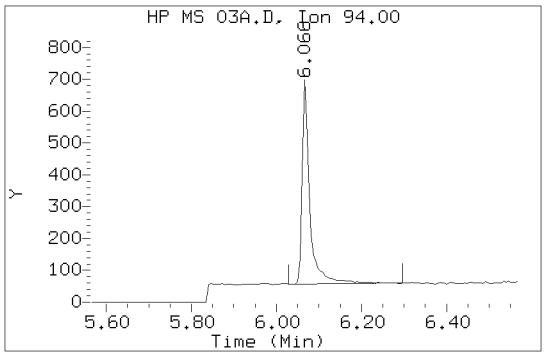
AFTER
MASS
188
AREA
13232
HEIGHT
9886
28-May-2024
13:05



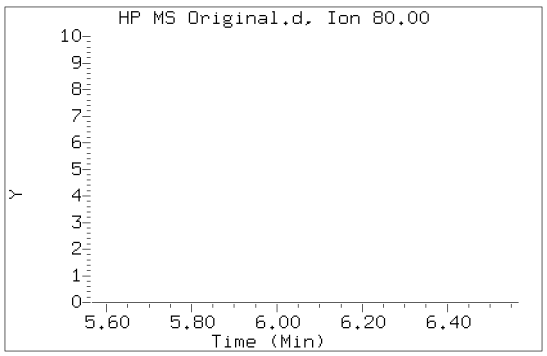
BEFORE
MASS
94
AREA
1408
HEIGHT
677
18-Apr-2024
12:42
ALSHS
Server



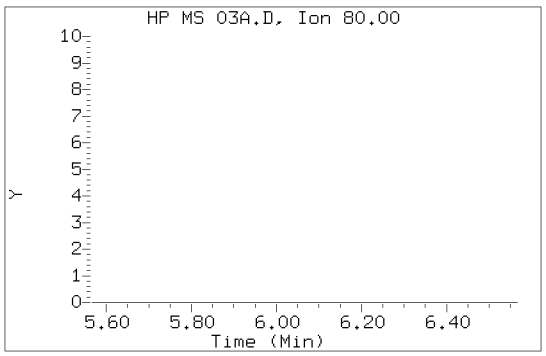
AFTER
MASS
94
AREA
802
HEIGHT
640
28-May-2024
13:05



BEFORE
MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
12:42
ALSHS
Server



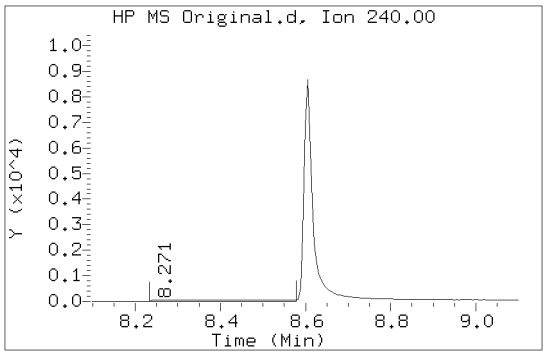
AFTER
MASS
80
AREA
0
HEIGHT
0
28-May-2024
13:05



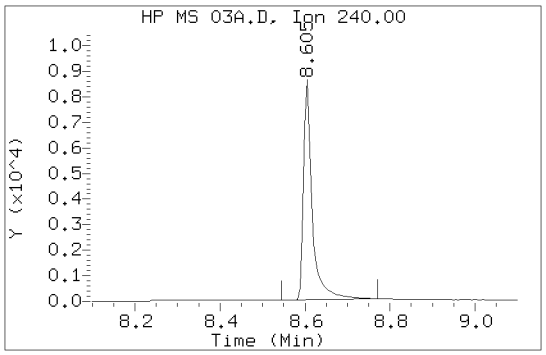
Chrysene-d12 (1719-03-5)

Reason Code:

BEFORE
MASS
240
AREA
1046
HEIGHT
58
18-Apr-2024
12:42
ALSHS
Server



AFTER
MASS
240
AREA
12125
HEIGHT
8606
28-May-2024
13:05



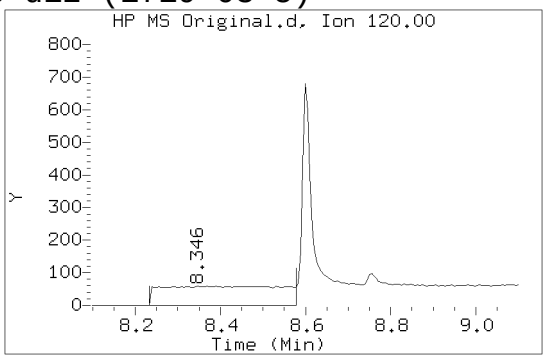
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D
Inj Date : 18-APR-2024 12:24
InstruID : SV6.i
LabSampID : 14DX-0.08

Chrysene-d12 (1719-03-5)

Reason Code:

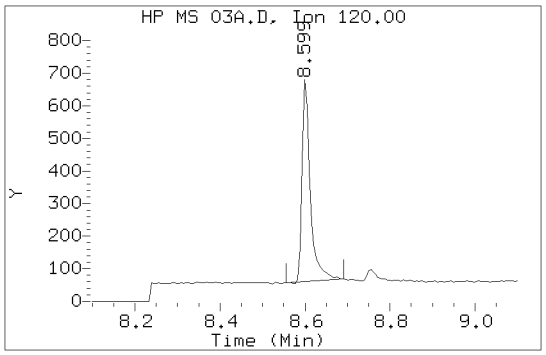
BEFORE

MASS
120
AREA
1175
HEIGHT
59
18-Apr-2024
12:42
ALSHS
Server



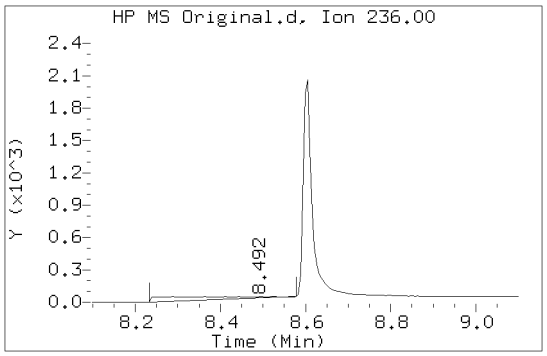
AFTER

MASS
120
AREA
821
HEIGHT
619
28-May-2024
13:05



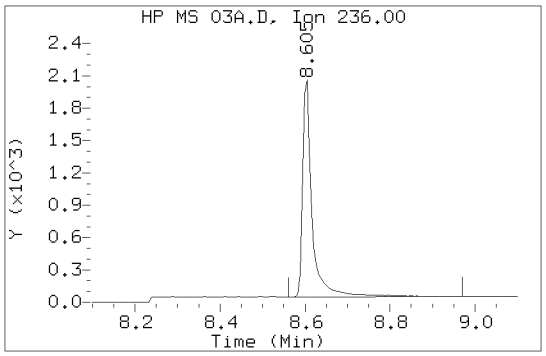
BEFORE

MASS
236
AREA
485
HEIGHT
13
18-Apr-2024
12:42
ALSHS
Server



AFTER

MASS
236
AREA
3066
HEIGHT
2012
28-May-2024
13:05

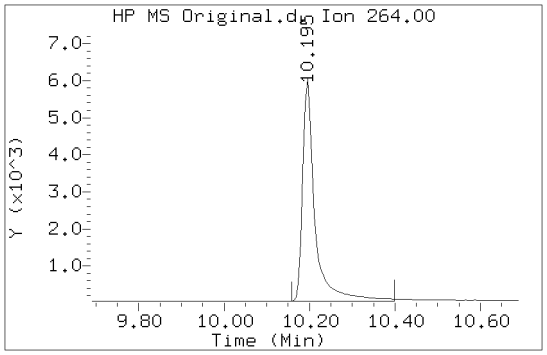


Perylene-d12 (1520-96-3)

Reason Code:

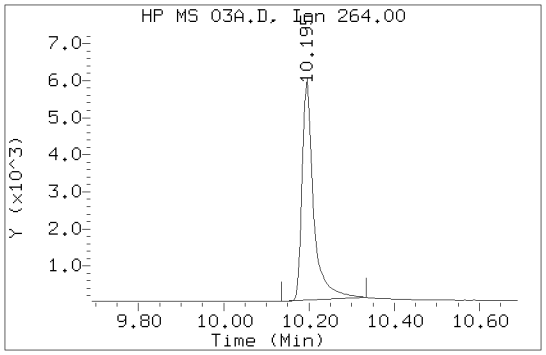
BEFORE

MASS
264
AREA
11914
HEIGHT
5992
18-Apr-2024
12:42
ALSHS
Server



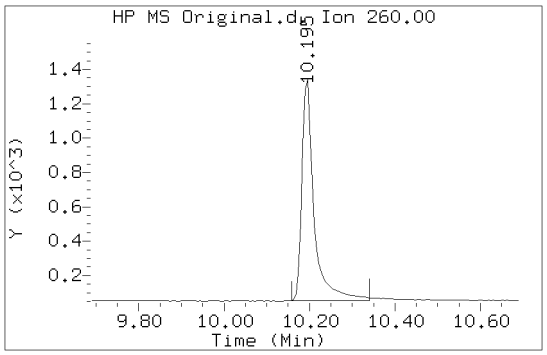
AFTER

MASS
264
AREA
11098
HEIGHT
5966
28-May-2024
13:05



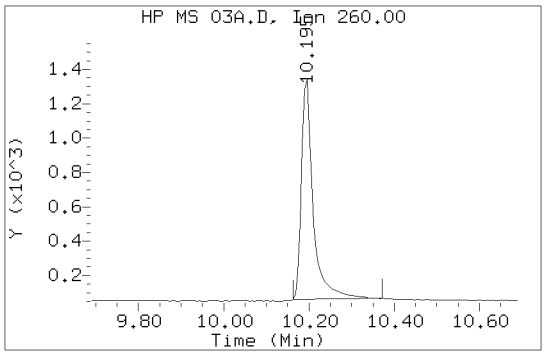
BEFORE

MASS
260
AREA
2543
HEIGHT
1286
18-Apr-2024
12:42
ALSHS
Server



AFTER

MASS
260
AREA
2442
HEIGHT
1278
28-May-2024
13:05



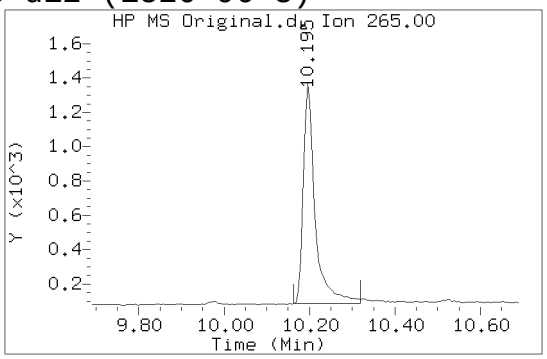
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D
Inj Date : 18-APR-2024 12:24
InstruID : SV6.i
LabSampID : 14DX-0.08

Perylene-d12 (1520-96-3)

Reason Code:

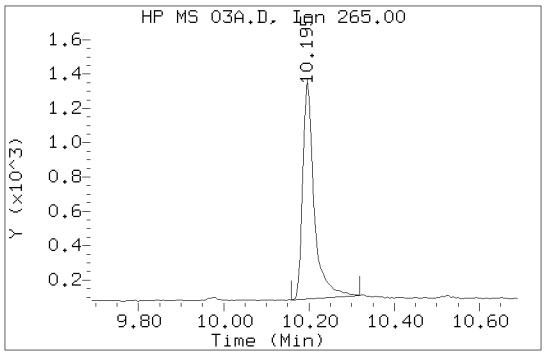
BEFORE

MASS
265
AREA
2459
HEIGHT
1281
18-Apr-2024
12:42
ALSHS
Server



AFTER

MASS
265
AREA
2359
HEIGHT
1277
28-May-2024
13:05

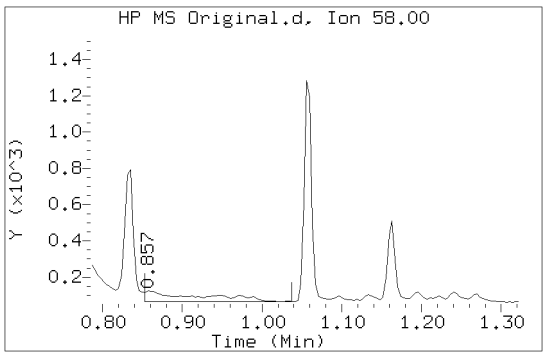


1,4-Dioxane ()

Reason Code:

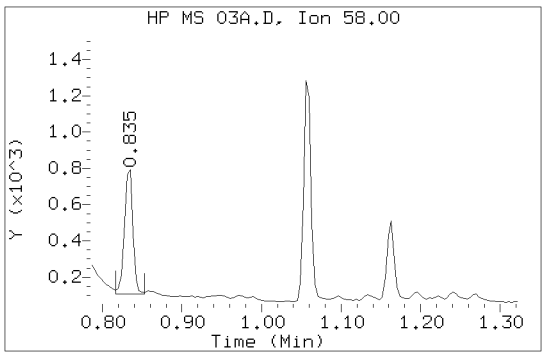
BEFORE

MASS
58
AREA
288
HEIGHT
59
18-Apr-2024
12:42
ALSHS
Server



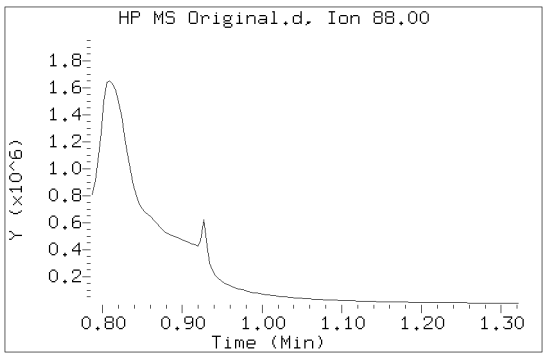
AFTER

MASS
58
AREA
503
HEIGHT
686
28-May-2024
13:05



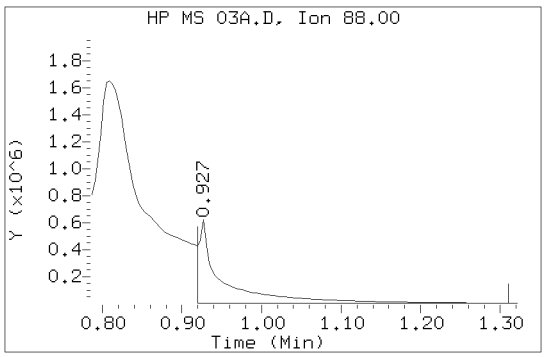
BEFORE

MASS
88
AREA
1284716
HEIGHT
617517
18-Apr-2024
12:42
ALSHS
Server



AFTER

MASS
88
AREA
1274387
HEIGHT
617087
28-May-2024
13:05

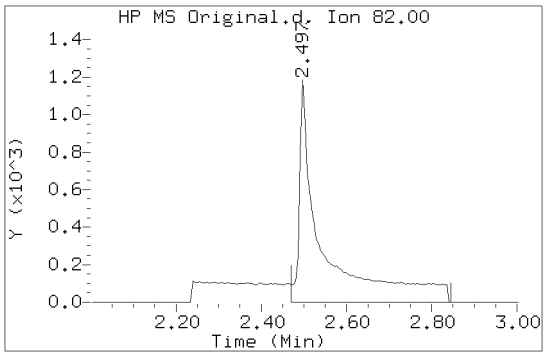


Nitrobenzene-d5 (4165-60-0)

Reason Code:

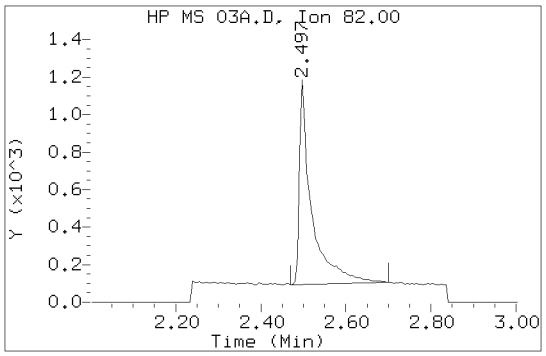
BEFORE

MASS
82
AREA
4330
HEIGHT
1185
18-Apr-2024
12:42
ALSHS
Server



AFTER

MASS
82
AREA
2161
HEIGHT
1090
28-May-2024
13:05



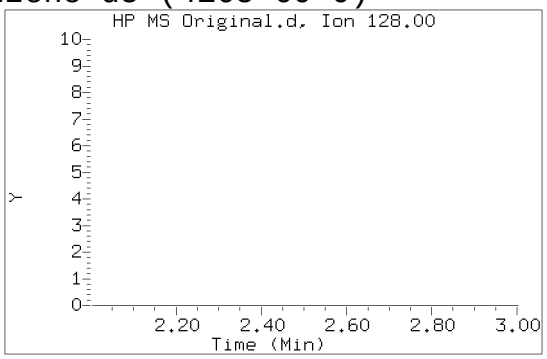
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D
Inj Date : 18-APR-2024 12:24
InstruID : SV6.i
LabSampID : 14DX-0.08

Nitrobenzene-d5 (4165-60-0)

Reason Code:

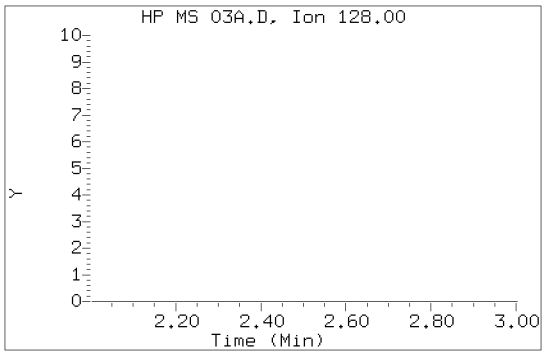
BEFORE

MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
12:42
ALSHS
Server



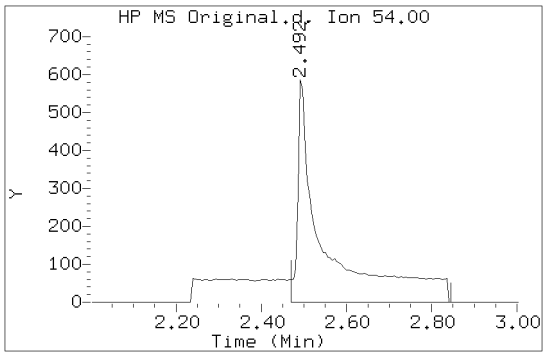
AFTER

MASS
128
AREA
0
HEIGHT
0
28-May-2024
13:05



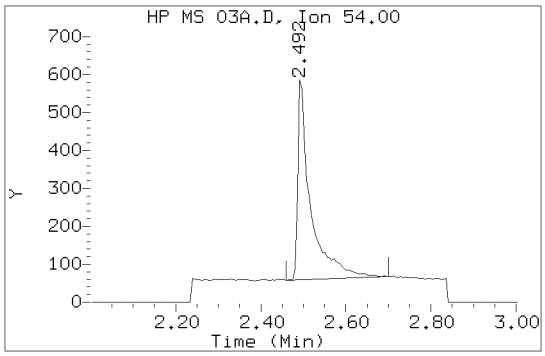
BEFORE

MASS
54
AREA
2489
HEIGHT
586
18-Apr-2024
12:42
ALSHS
Server



AFTER

MASS
54
AREA
1100
HEIGHT
526
28-May-2024
13:05

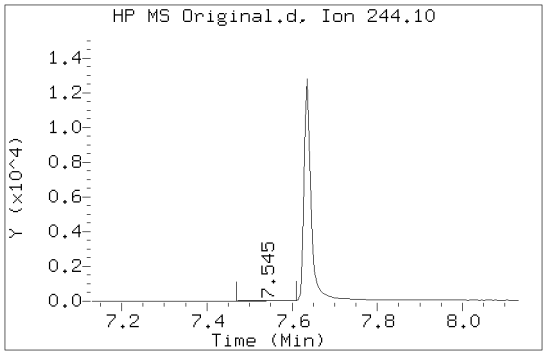


4-Terphenyl-d14 (1718-51-0)

Reason Code:

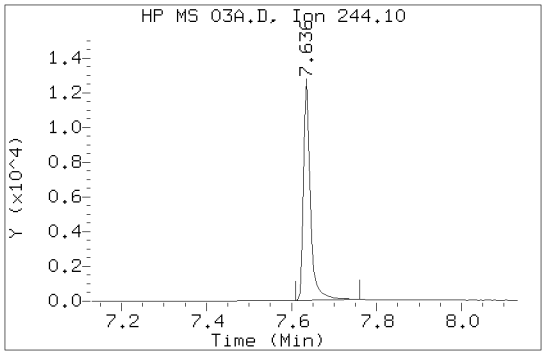
BEFORE

MASS
244.1
AREA
193
HEIGHT
23
18-Apr-2024
12:42
ALSHS
Server



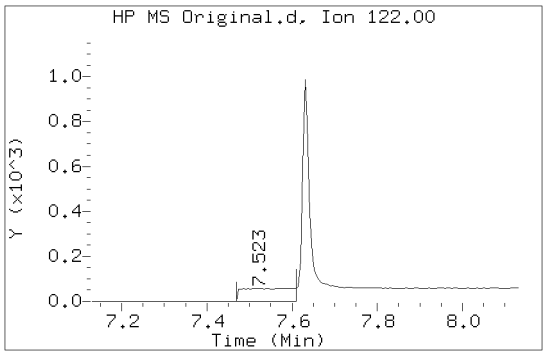
AFTER

MASS
244.1
AREA
14251
HEIGHT
12746
28-May-2024
13:05



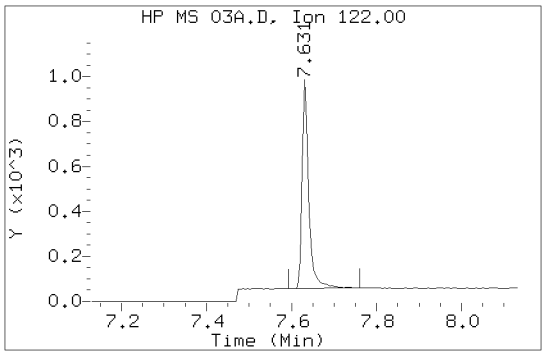
BEFORE

MASS
122
AREA
473
HEIGHT
58
18-Apr-2024
12:42
ALSHS
Server



AFTER

MASS
122
AREA
1008
HEIGHT
928
28-May-2024
13:05



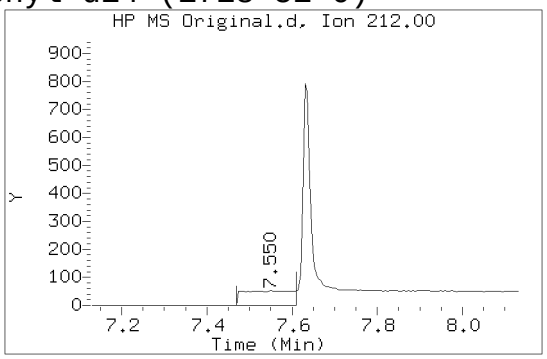
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D
Inj Date : 18-APR-2024 12:24
InstruID : SV6.i
LabSampID : 14DX-0.08

4-Terphenyl-d14 (1718-51-0)

Reason Code:

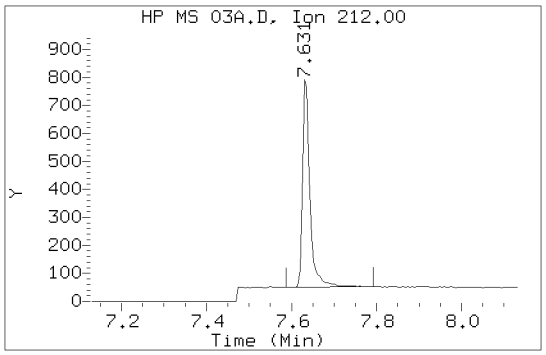
BEFORE

MASS
212
AREA
422
HEIGHT
53
18-Apr-2024
12:42
ALSHS
Server



AFTER

MASS
212
AREA
890
HEIGHT
741
28-May-2024
13:05

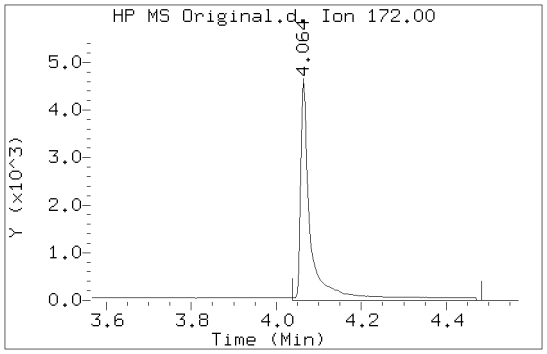


2-Fluorobiphenyl (321-60-8)

Reason Code:

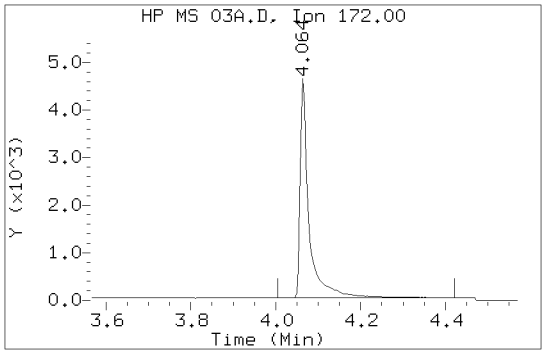
BEFORE

MASS
172
AREA
8151
HEIGHT
4659
18-Apr-2024
12:42
ALSHS
Server



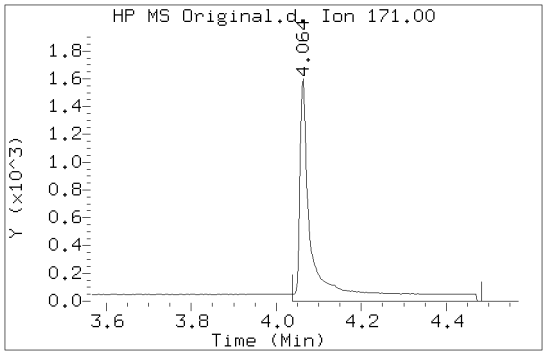
AFTER

MASS
172
AREA
6691
HEIGHT
4608
28-May-2024
13:05



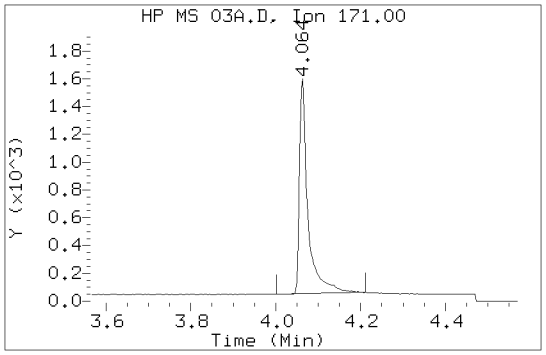
BEFORE

MASS
171
AREA
3618
HEIGHT
1599
18-Apr-2024
12:42
ALSHS
Server



AFTER

MASS
171
AREA
2124
HEIGHT
1543
28-May-2024
13:05



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D Page 1
Report Date: 17-Jul-2024 16:41

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Lab Smp Id: 14DX-0.01
Inj Date : 18-APR-2024 12:49
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.01
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 17-Jul-2024 16:39 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 12:49 Cal File: 04.D
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	2.089	2.089	(1.000)	3248	0.10000	(aM)
* 45 Naphthalene-d8	136	3.073	3.076	(1.000)	10308	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.497	2.502	(0.813)	262	0.01000	0.008466(M)
* 86 Acenaphthene-d10	164	4.665	4.671	(1.000)	6420	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.064	4.067	(0.871)	1018	0.01000	0.01037(M)
* 126 Phenanthrene-d10	188	6.066	6.065	(1.000)	12867	0.10000	(M)
* 182 Chrysene-d12	240	8.604	8.599	(1.000)	11333	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.636	7.630	(0.887)	2521	0.01000	0.01092(M)
* 198 Perylene-d12	264	10.195	10.189	(1.000)	12071	0.10000	(M)
1 1,4-Dioxane	58	0.838	0.820	(0.401)	87	0.01000	0.01250(QM)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D

Date : 18-APR-2024 12:49

Client ID:

Instrument: SV6.i

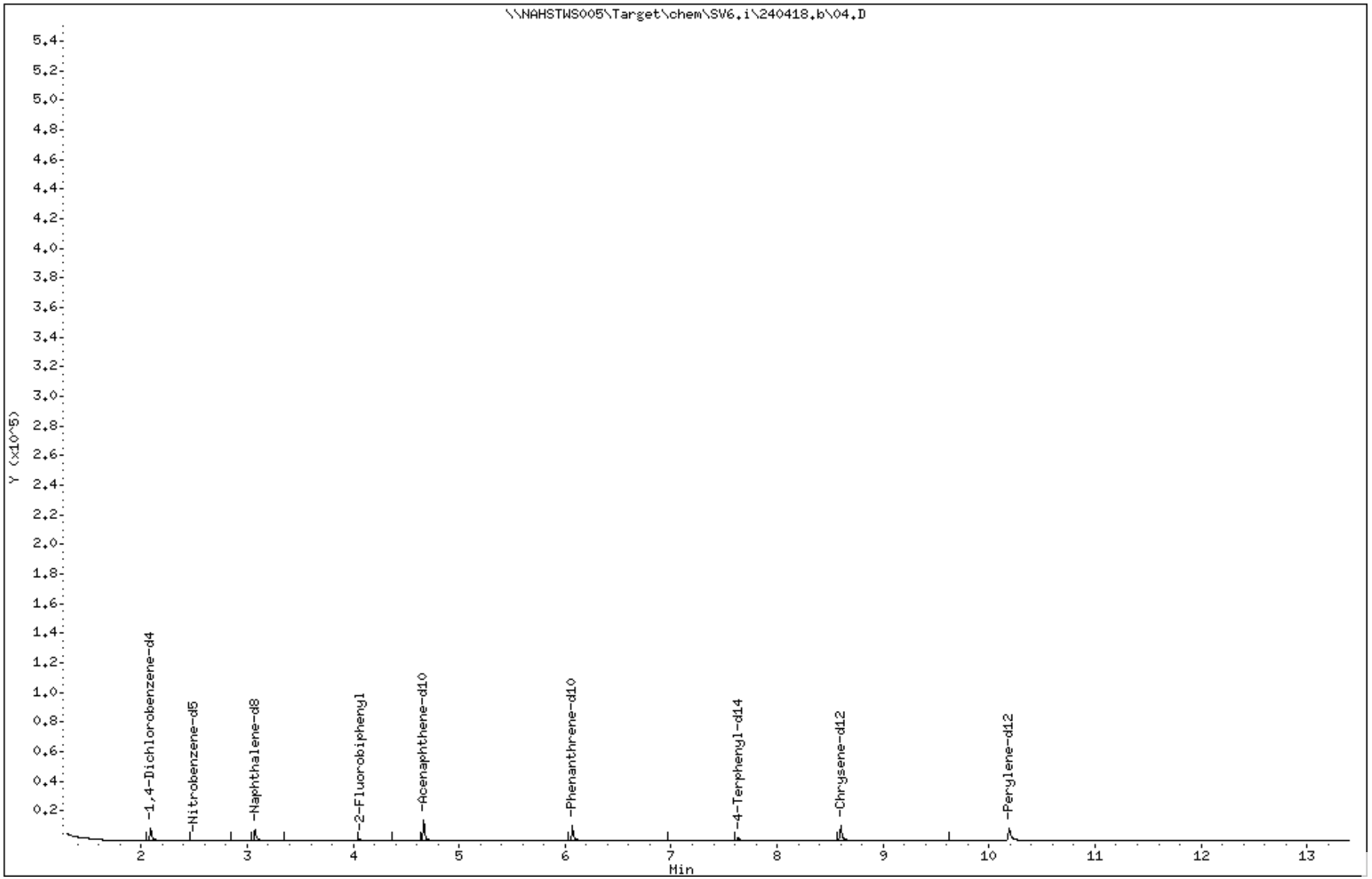
Sample Info: 14DX-0.01

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



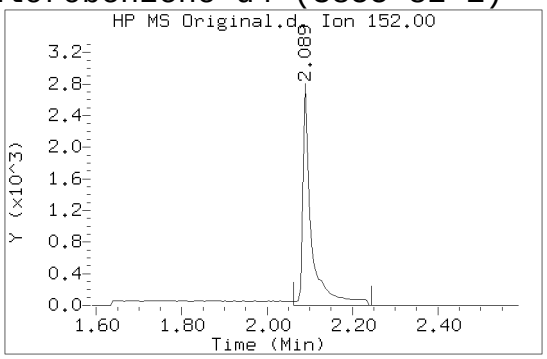
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Inj Date : 18-APR-2024 12:49
InstruID : SV6.i
LabSampID : 14DX-0.01

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

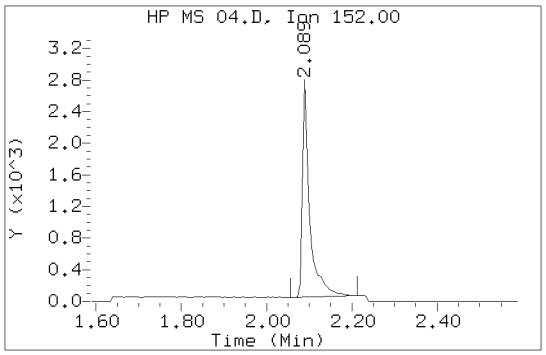
BEFORE

MASS
152
AREA
3912
HEIGHT
2804
18-Apr-2024
13:10
ALSHS
Server



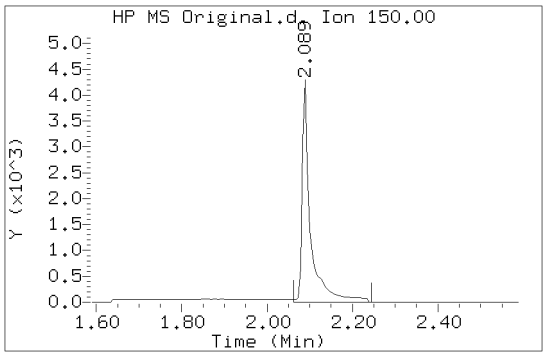
AFTER

MASS
152
AREA
3248
HEIGHT
2748
28-May-2024
13:05



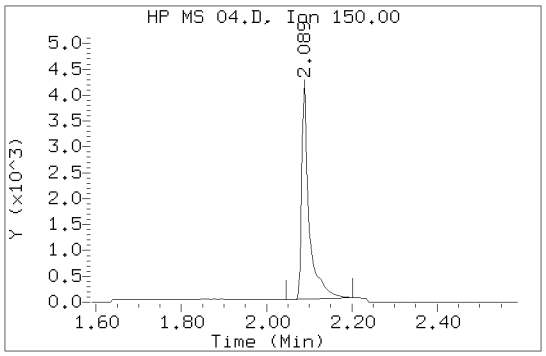
BEFORE

MASS
150
AREA
5830
HEIGHT
4294
18-Apr-2024
13:10
ALSHS
Server



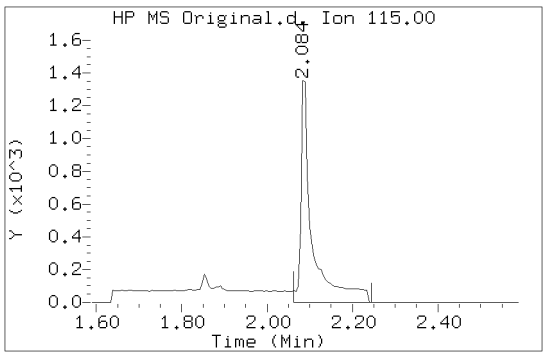
AFTER

MASS
150
AREA
5043
HEIGHT
4231
28-May-2024
13:05



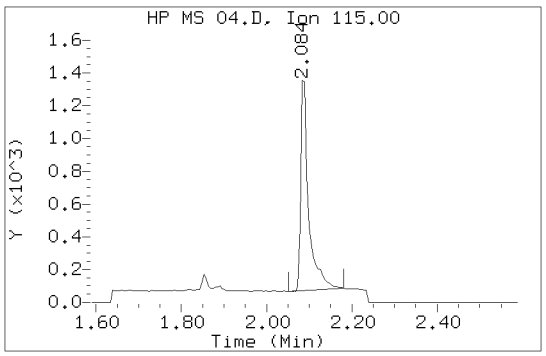
BEFORE

MASS
115
AREA
2502
HEIGHT
1353
18-Apr-2024
13:10
ALSHS
Server



AFTER

MASS
115
AREA
1663
HEIGHT
1280
28-May-2024
13:05

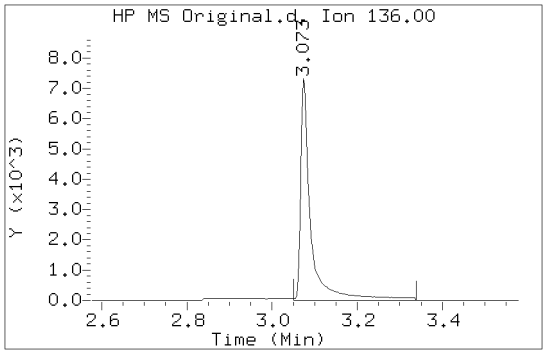


Naphthalene-d8 (1146-65-2)

Reason Code:

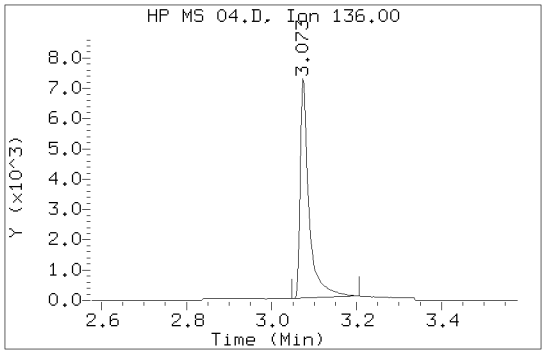
BEFORE

MASS
136
AREA
12033
HEIGHT
7318
18-Apr-2024
13:10
ALSHS
Server



AFTER

MASS
136
AREA
10308
HEIGHT
7248
28-May-2024
13:05



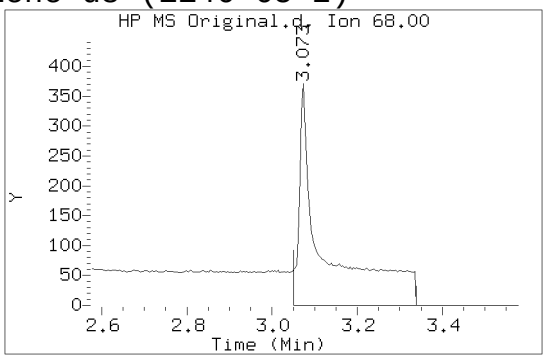
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Inj Date : 18-APR-2024 12:49
InstruID : SV6.i
LabSampID : 14DX-0.01

Naphthalene-d8 (1146-65-2)

Reason Code:

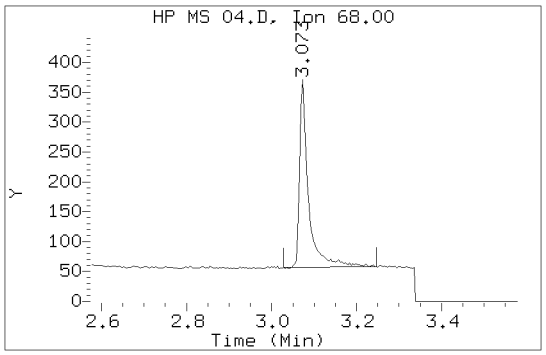
BEFORE

MASS
68
AREA
1444
HEIGHT
371
18-Apr-2024
13:10
ALSHS
Server



AFTER

MASS
68
AREA
448
HEIGHT
313
28-May-2024
13:05

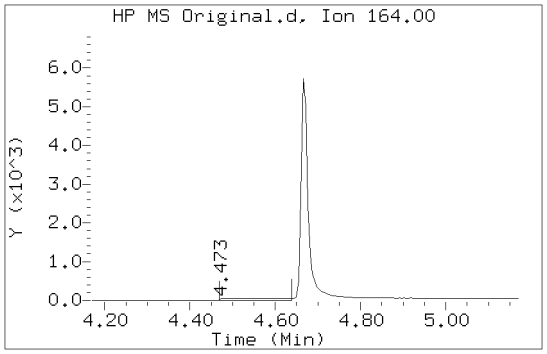


Acenaphthene-d10 (15067-26-2)

Reason Code:

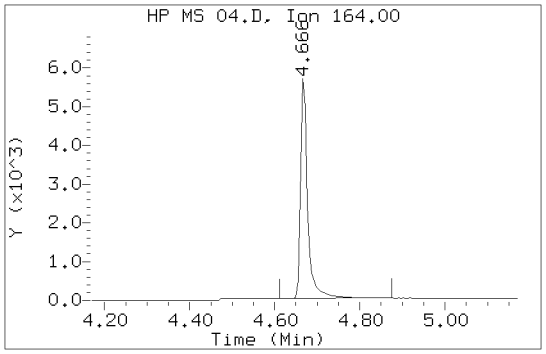
BEFORE

MASS
164
AREA
515
HEIGHT
52
18-Apr-2024
13:10
ALSHS
Server



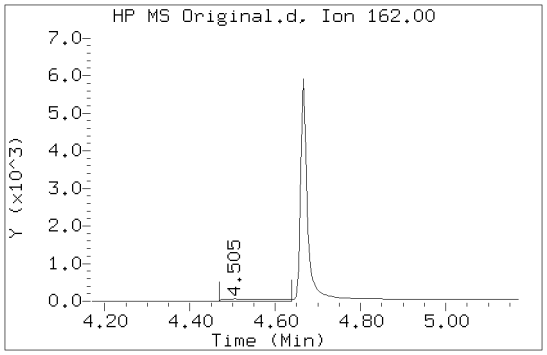
AFTER

MASS
164
AREA
6420
HEIGHT
5670
28-May-2024
13:05



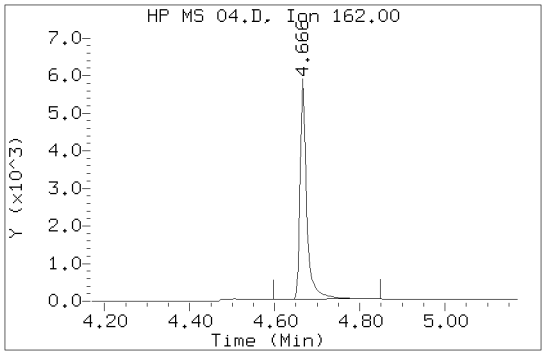
BEFORE

MASS
162
AREA
528
HEIGHT
60
18-Apr-2024
13:10
ALSHS
Server



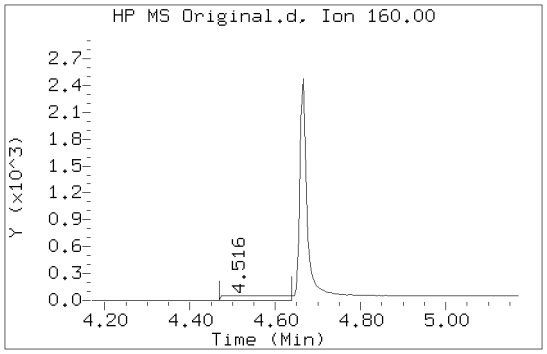
AFTER

MASS
162
AREA
6187
HEIGHT
5861
28-May-2024
13:05



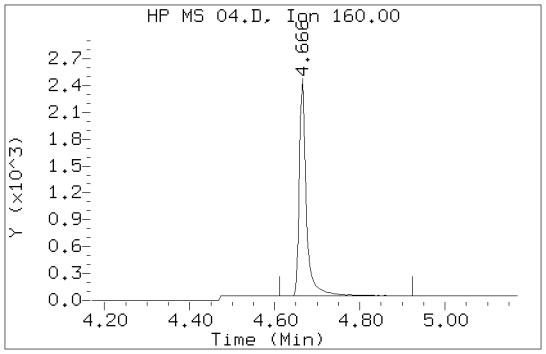
BEFORE

MASS
160
AREA
499
HEIGHT
51
18-Apr-2024
13:10
ALSHS
Server



AFTER

MASS
160
AREA
2756
HEIGHT
2428
28-May-2024
13:05



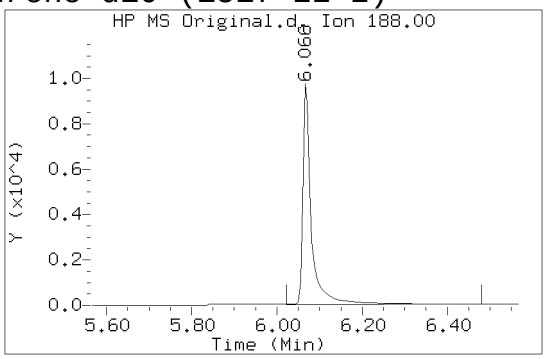
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Inj Date : 18-APR-2024 12:49
InstruID : SV6.i
LabSampID : 14DX-0.01

Phenanthrene-d10 (1517-22-2)

Reason Code:

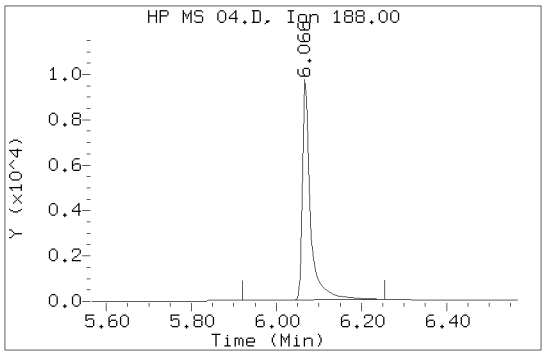
BEFORE

MASS
188
AREA
13965
HEIGHT
9748
18-Apr-2024
13:10
ALSHS
Server



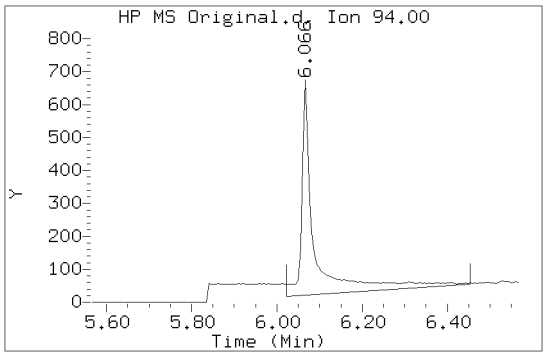
AFTER

MASS
188
AREA
12867
HEIGHT
9702
28-May-2024
13:05



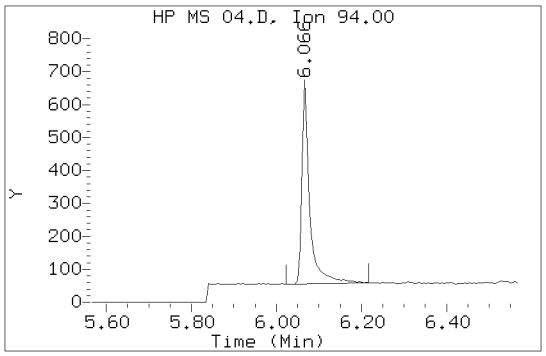
BEFORE

MASS
94
AREA
1364
HEIGHT
654
18-Apr-2024
13:10
ALSHS
Server



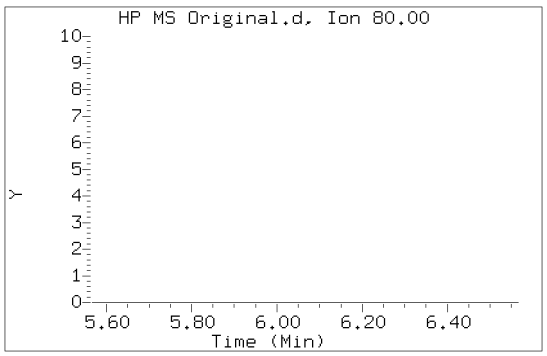
AFTER

MASS
94
AREA
793
HEIGHT
619
28-May-2024
13:05



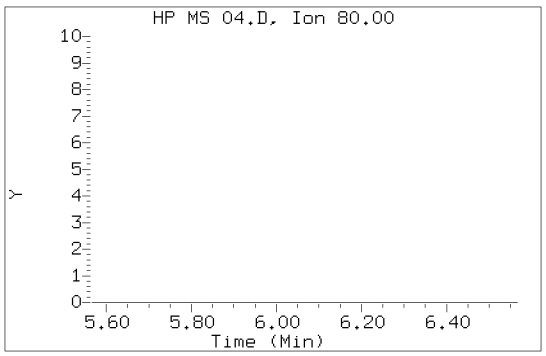
BEFORE

MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
13:10
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
28-May-2024
13:05

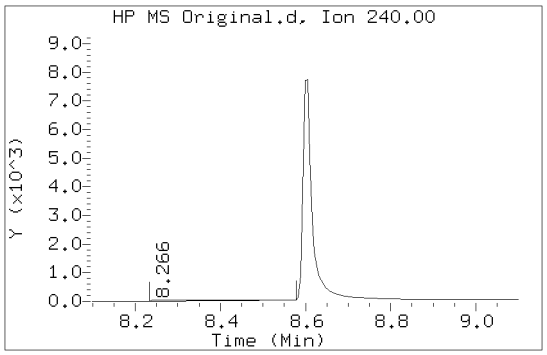


Chrysene-d12 (1719-03-5)

Reason Code:

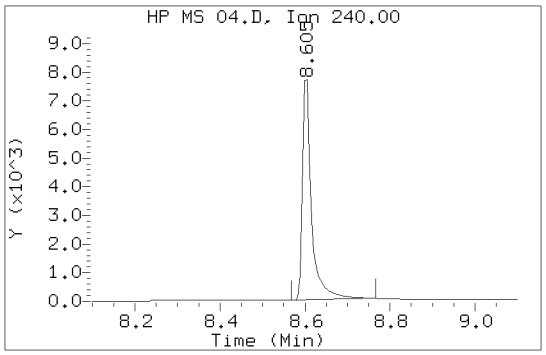
BEFORE

MASS
240
AREA
456
HEIGHT
48
18-Apr-2024
13:10
ALSHS
Server



AFTER

MASS
240
AREA
11333
HEIGHT
7679
28-May-2024
13:05

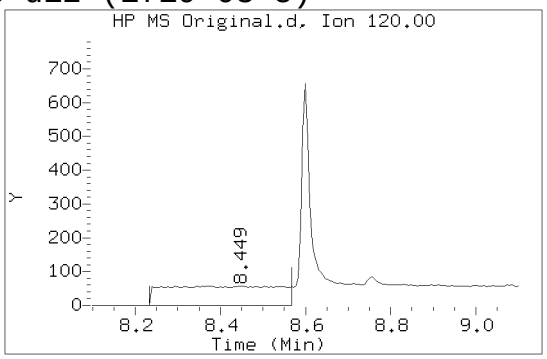


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Inj Date : 18-APR-2024 12:49
InstruID : SV6.i
LabSampID : 14DX-0.01

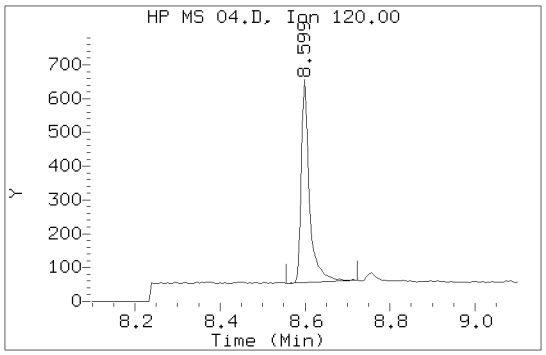
Chrysene-d12 (1719-03-5)

Reason Code:

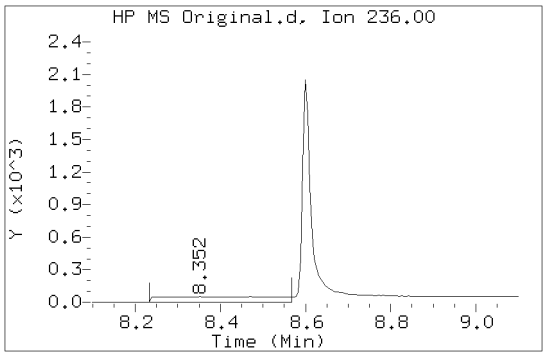
BEFORE
MASS
120
AREA
1092
HEIGHT
57
18-Apr-2024
13:10
ALSHS
Server



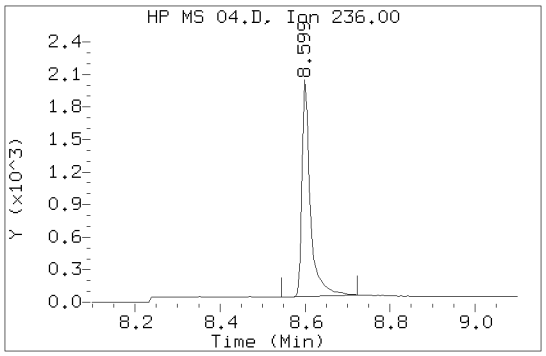
AFTER
MASS
120
AREA
786
HEIGHT
599
28-May-2024
13:05



BEFORE
MASS
236
AREA
988
HEIGHT
51
18-Apr-2024
13:10
ALSHS
Server



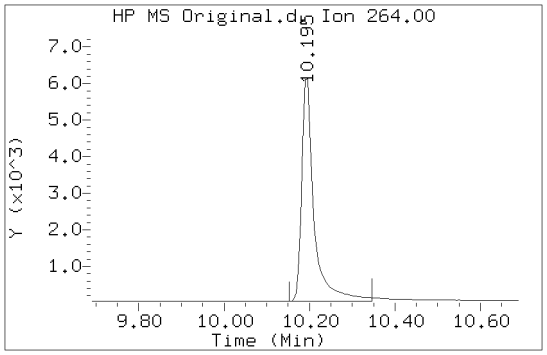
AFTER
MASS
236
AREA
2680
HEIGHT
1995
28-May-2024
13:05



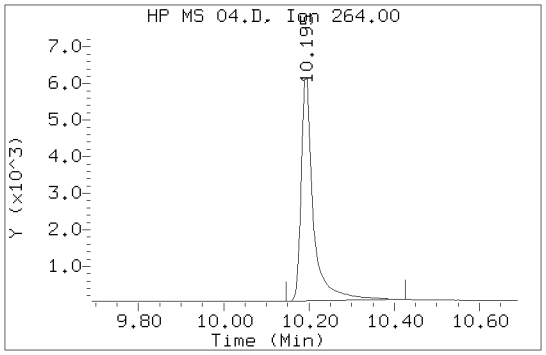
Perylene-d12 (1520-96-3)

Reason Code:

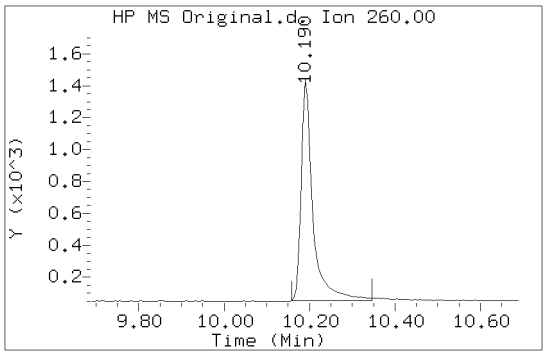
BEFORE
MASS
264
AREA
12161
HEIGHT
6073
18-Apr-2024
13:10
ALSHS
Server



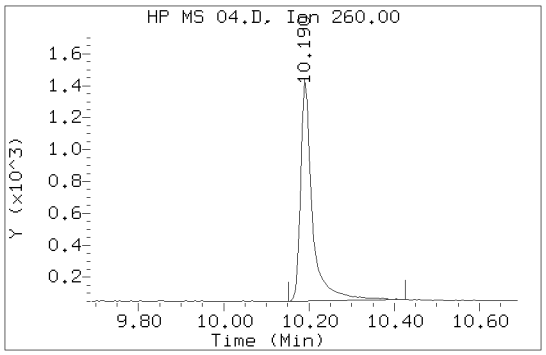
AFTER
MASS
264
AREA
12071
HEIGHT
6065
28-May-2024
13:05



BEFORE
MASS
260
AREA
2633
HEIGHT
1385
18-Apr-2024
13:10
ALSHS
Server



AFTER
MASS
260
AREA
2644
HEIGHT
1385
28-May-2024
13:05



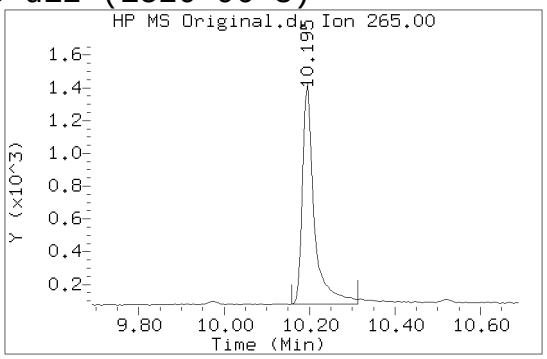
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Inj Date : 18-APR-2024 12:49
InstruID : SV6.i
LabSampID : 14DX-0.01

Perylene-d12 (1520-96-3)

Reason Code:

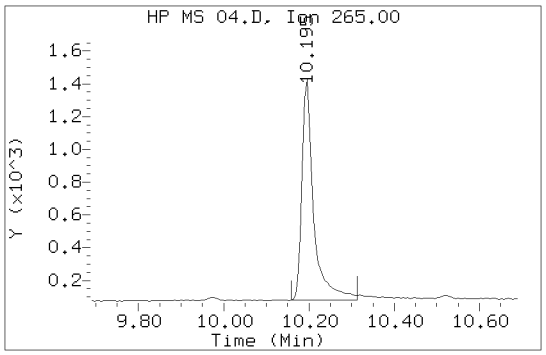
BEFORE

MASS
265
AREA
2550
HEIGHT
1343
18-Apr-2024
13:10
ALSHS
Server



AFTER

MASS
265
AREA
2550
HEIGHT
1343
28-May-2024
13:05

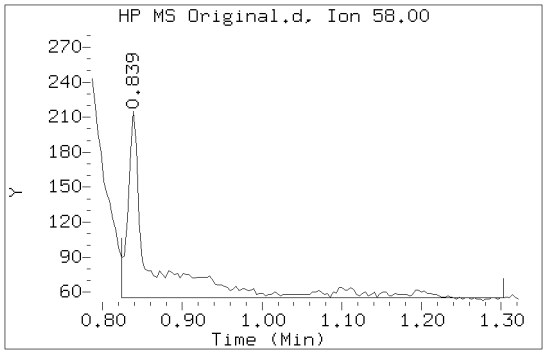


1,4-Dioxane ()

Reason Code:

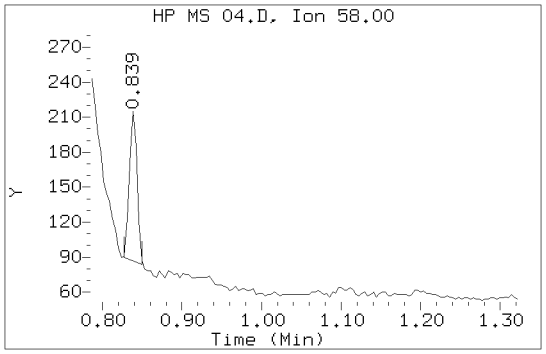
BEFORE

MASS
58
AREA
329
HEIGHT
160
18-Apr-2024
13:10
ALSHS
Server



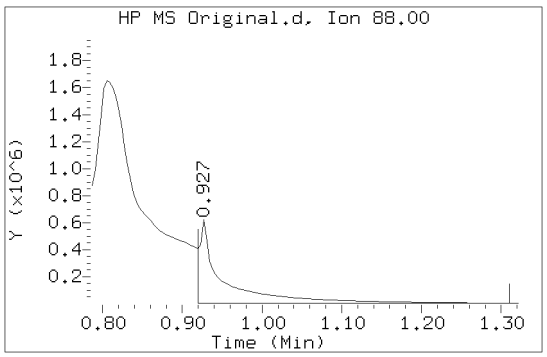
AFTER

MASS
58
AREA
87
HEIGHT
128
28-May-2024
13:05



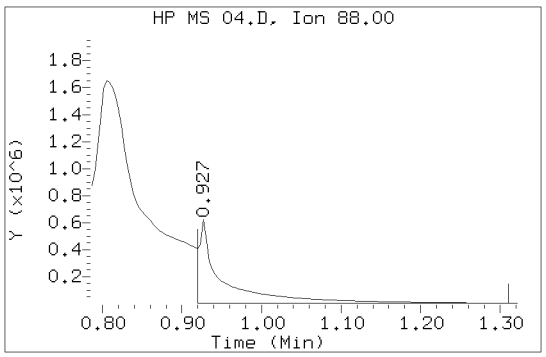
BEFORE

MASS
88
AREA
1289287
HEIGHT
619255
18-Apr-2024
13:10
ALSHS
Server



AFTER

MASS
88
AREA
1289287
HEIGHT
619255
28-May-2024
13:05

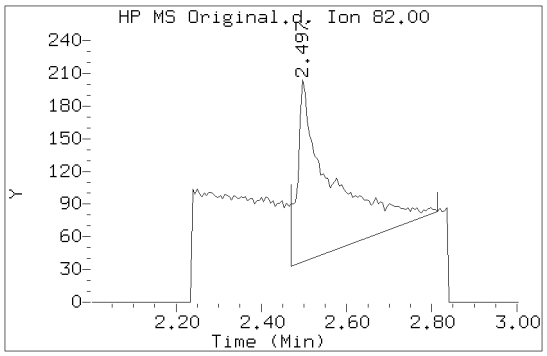


Nitrobenzene-d5 (4165-60-0)

Reason Code:

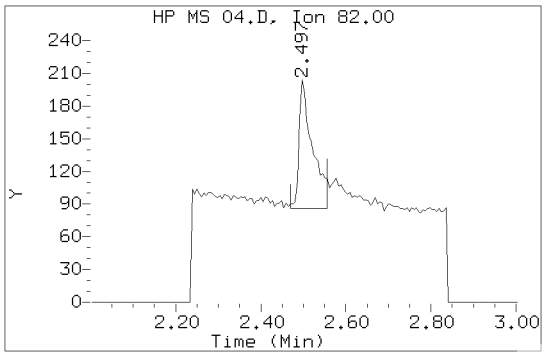
BEFORE

MASS
82
AREA
946
HEIGHT
167
18-Apr-2024
13:10
ALSHS
Server



AFTER

MASS
82
AREA
262
HEIGHT
118
28-May-2024
13:05

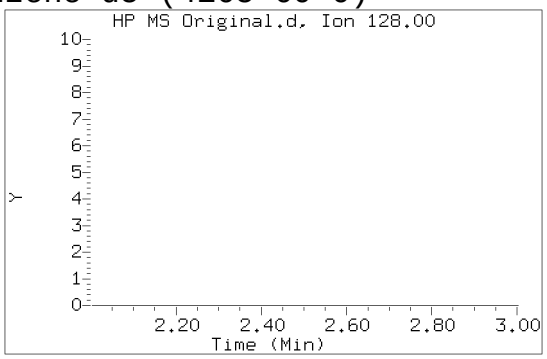


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Inj Date : 18-APR-2024 12:49
InstruID : SV6.i
LabSampID : 14DX-0.01

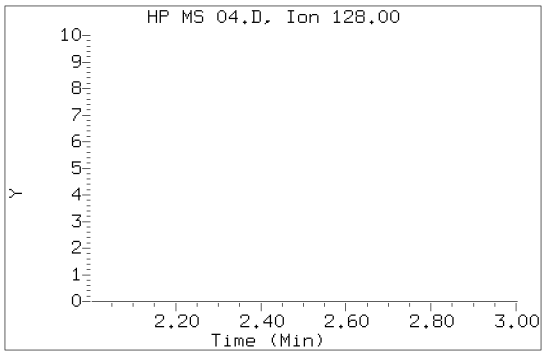
Nitrobenzene-d5 (4165-60-0)

Reason Code:

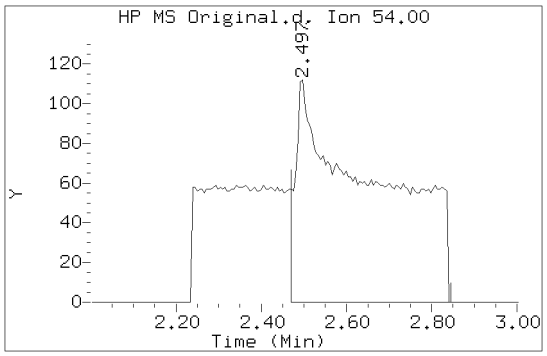
BEFORE
MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
13:10
ALSHS
Server



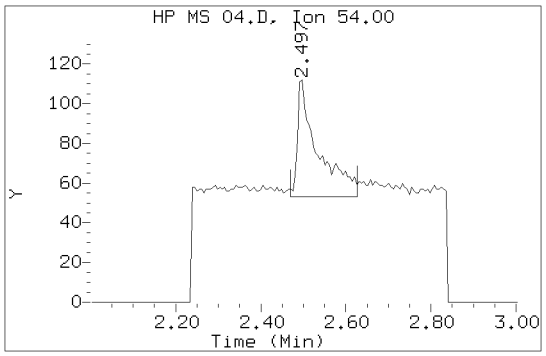
AFTER
MASS
128
AREA
0
HEIGHT
0
28-May-2024
13:05



BEFORE
MASS
54
AREA
1431
HEIGHT
112
18-Apr-2024
13:10
ALSHS
Server



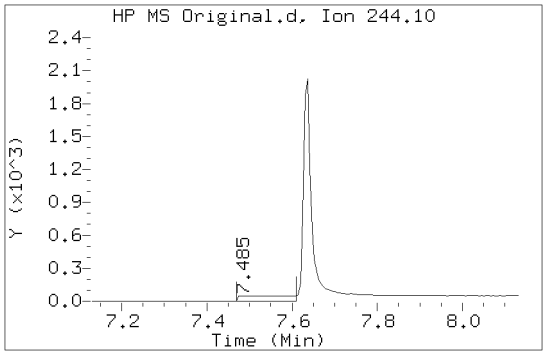
AFTER
MASS
54
AREA
197
HEIGHT
59
28-May-2024
13:05



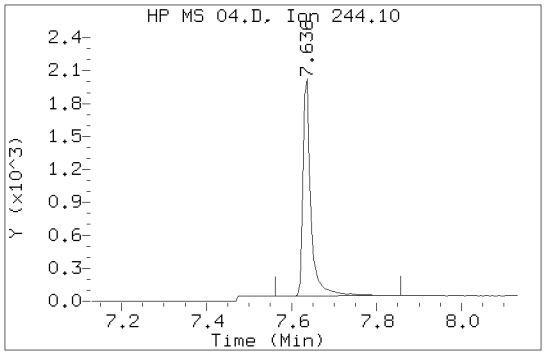
4-Terphenyl-d14 (1718-51-0)

Reason Code:

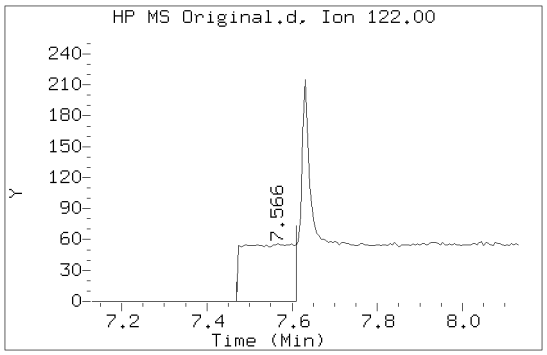
BEFORE
MASS
244.1
AREA
404
HEIGHT
49
18-Apr-2024
13:10
ALSHS
Server



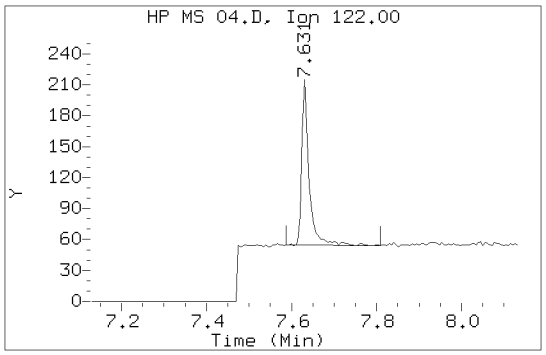
AFTER
MASS
244.1
AREA
2521
HEIGHT
1975
28-May-2024
13:05



BEFORE
MASS
122
AREA
456
HEIGHT
56
18-Apr-2024
13:10
ALSHS
Server



AFTER
MASS
122
AREA
187
HEIGHT
160
28-May-2024
13:05



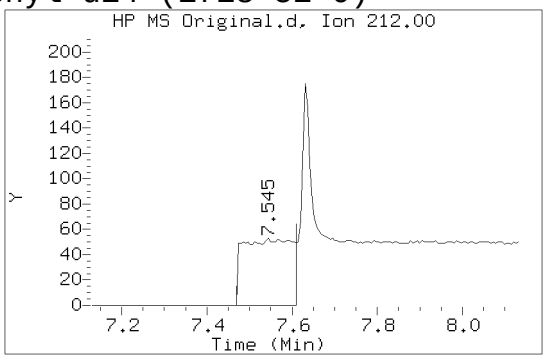
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Inj Date : 18-APR-2024 12:49
InstruID : SV6.i
LabSampID : 14DX-0.01

4-Terphenyl-d14 (1718-51-0)

Reason Code:

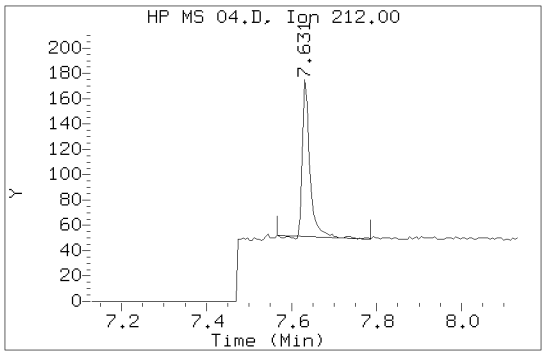
BEFORE

MASS
212
AREA
418
HEIGHT
53
18-Apr-2024
13:10
ALSHS
Server



AFTER

MASS
212
AREA
146
HEIGHT
123
28-May-2024
13:05

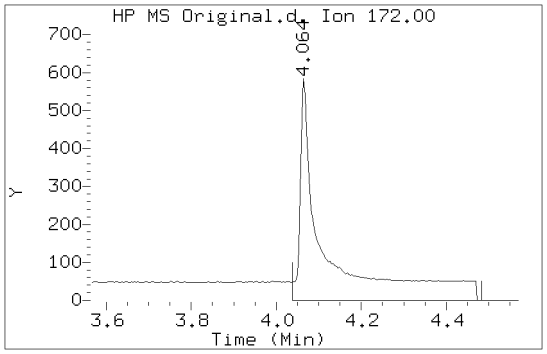


2-Fluorobiphenyl (321-60-8)

Reason Code:

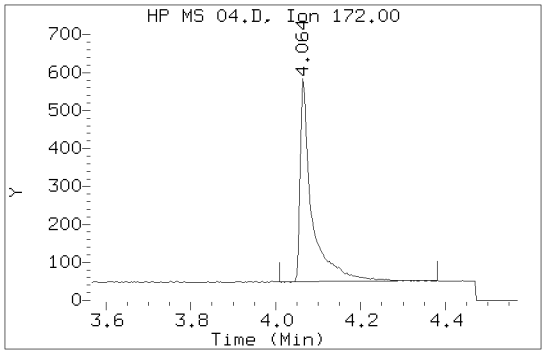
BEFORE

MASS
172
AREA
2355
HEIGHT
584
18-Apr-2024
13:10
ALSHS
Server



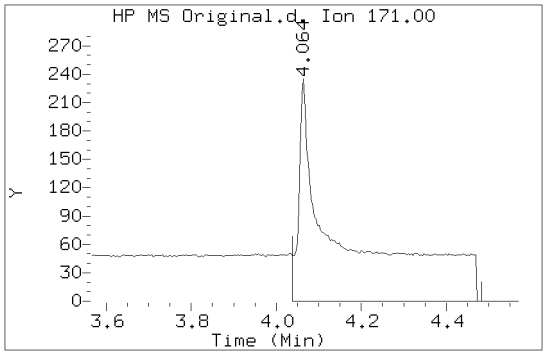
AFTER

MASS
172
AREA
1018
HEIGHT
534
28-May-2024
13:05



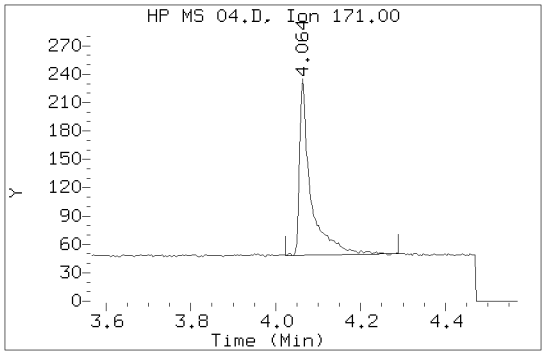
BEFORE

MASS
171
AREA
1637
HEIGHT
235
18-Apr-2024
13:10
ALSHS
Server



AFTER

MASS
171
AREA
346
HEIGHT
186
28-May-2024
13:05



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D Page 1
Report Date: 17-Jul-2024 16:41

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D
Lab Smp Id: 14DX-0.03
Inj Date : 18-APR-2024 13:07
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.03
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 17-Jul-2024 16:39 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 13:07 Cal File: 05.D
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	2.088	2.089	(1.000)	2278	0.10000	(aM)
* 45 Naphthalene-d8	136	3.076	3.076	(1.000)	6857	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.496	2.502	(0.812)	570	0.03000	0.02769(M)
* 86 Acenaphthene-d10	164	4.665	4.671	(1.000)	3891	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.063	4.067	(0.871)	1731	0.03000	0.02910(M)
* 126 Phenanthrene-d10	188	6.065	6.065	(1.000)	7578	0.10000	(M)
* 182 Chrysene-d12	240	8.598	8.599	(1.000)	6445	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.630	7.630	(0.887)	3857	0.03000	0.02938(M)
* 198 Perylene-d12	264	10.189	10.189	(1.000)	6635	0.10000	
1 1,4-Dioxane	58	0.827	0.820	(0.396)	138	0.03000	0.02828(QM)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D

Date : 18-APR-2024 13:07

Client ID:

Instrument: SV6.i

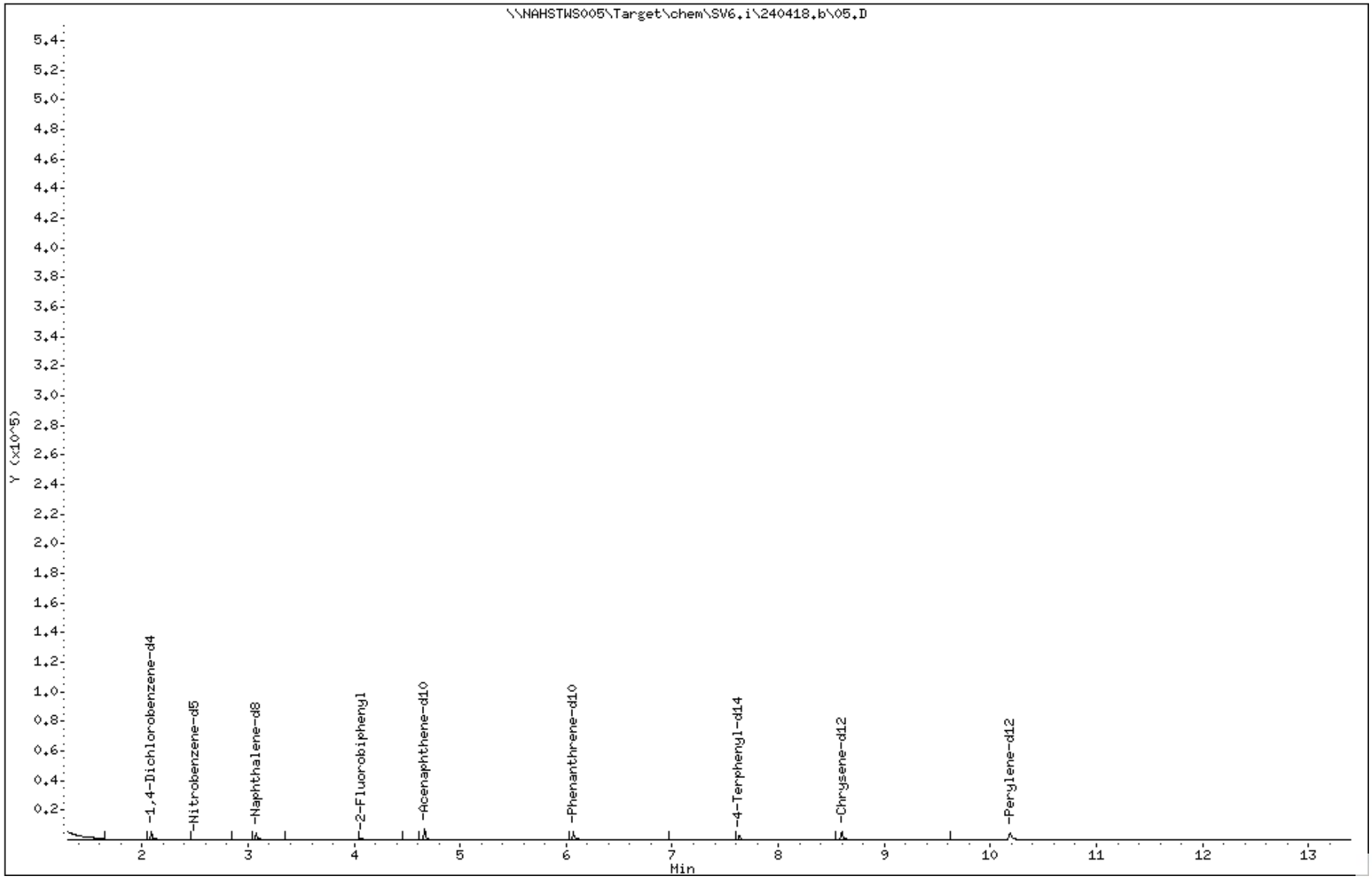
Sample Info: 14DX-0.03

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

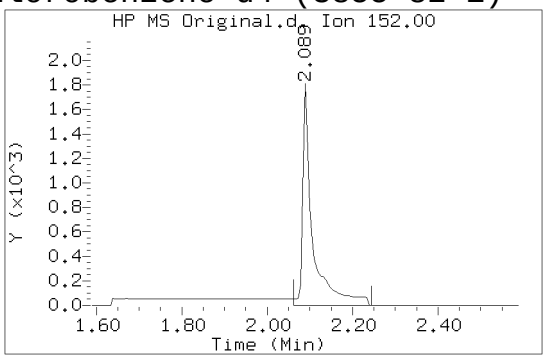


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D
Inj Date : 18-APR-2024 13:07
InstruID : SV6.i
LabSampID : 14DX-0.03

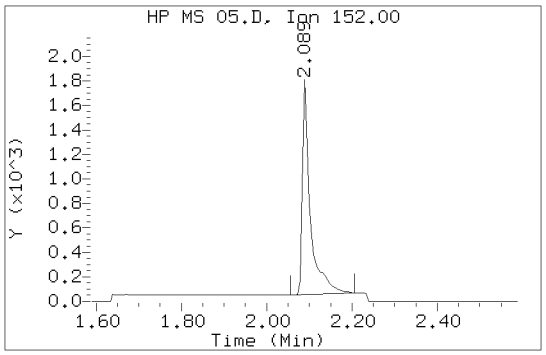
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

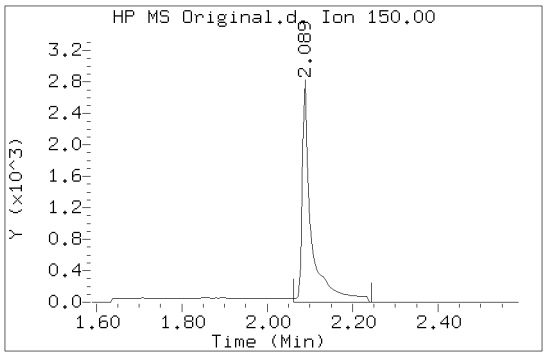
BEFORE
MASS
152
AREA
2919
HEIGHT
1810
18-Apr-2024
13:21
ALSHS
Server



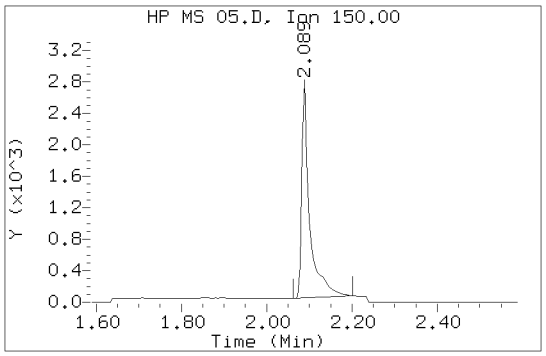
AFTER
MASS
152
AREA
2278
HEIGHT
1755
28-May-2024
13:05



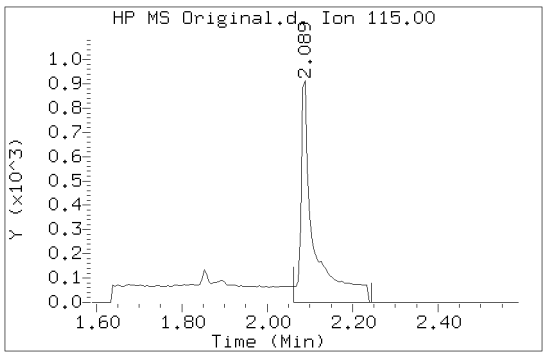
BEFORE
MASS
150
AREA
4252
HEIGHT
2826
18-Apr-2024
13:21
ALSHS
Server



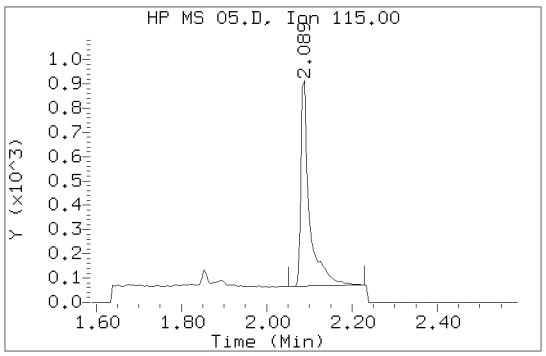
AFTER
MASS
150
AREA
3521
HEIGHT
2768
28-May-2024
13:05



BEFORE
MASS
115
AREA
1932
HEIGHT
913
18-Apr-2024
13:21
ALSHS
Server



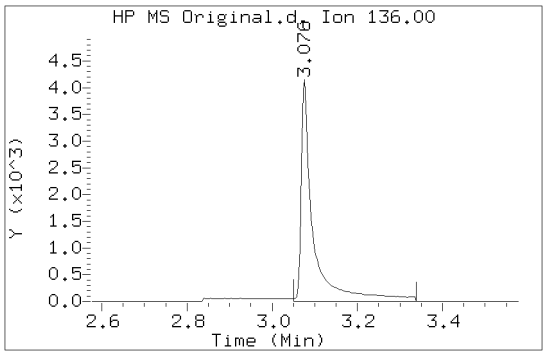
AFTER
MASS
115
AREA
1207
HEIGHT
846
28-May-2024
13:05



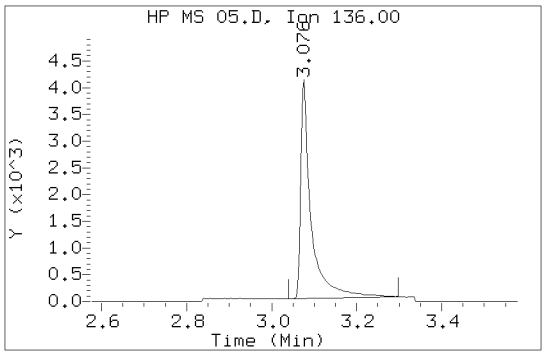
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
8079
HEIGHT
4148
18-Apr-2024
13:21
ALSHS
Server



AFTER
MASS
136
AREA
6857
HEIGHT
4091
28-May-2024
13:05

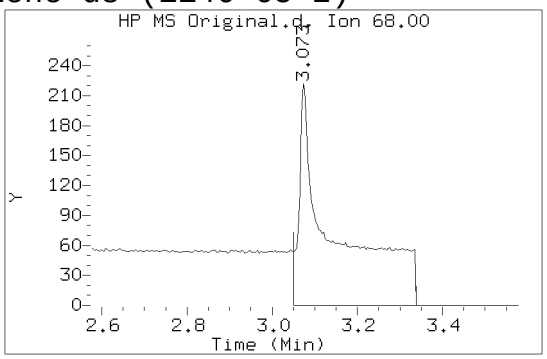


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D
Inj Date : 18-APR-2024 13:07
InstruID : SV6.i
LabSampID : 14DX-0.03

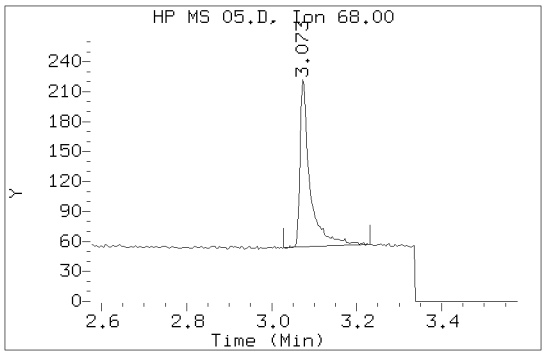
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
68
AREA
1234
HEIGHT
222
18-Apr-2024
13:21
ALSHS
Server



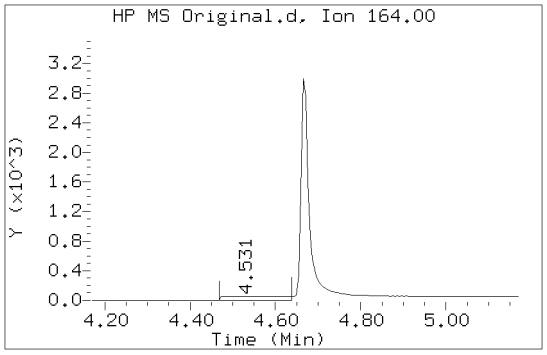
AFTER
MASS
68
AREA
270
HEIGHT
167
28-May-2024
13:05



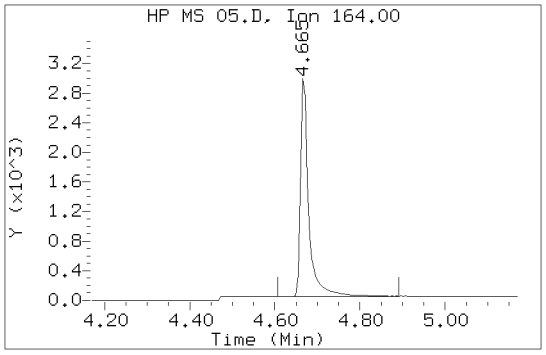
Acenaphthene-d10 (15067-26-2)

Reason Code:

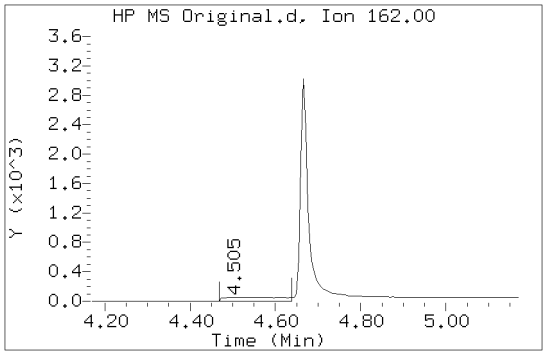
BEFORE
MASS
164
AREA
504
HEIGHT
51
18-Apr-2024
13:21
ALSHS
Server



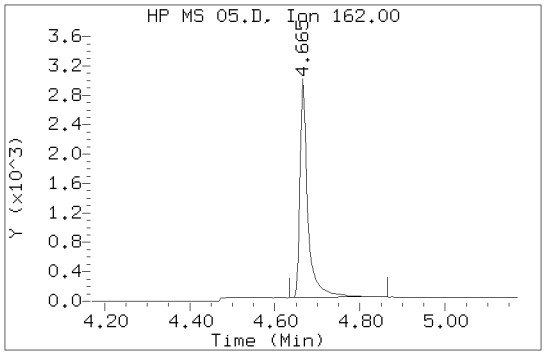
AFTER
MASS
164
AREA
3891
HEIGHT
2944
28-May-2024
13:05



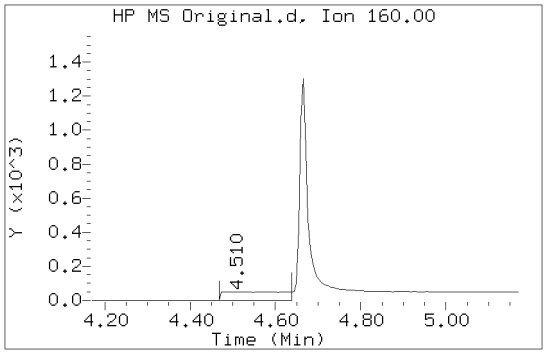
BEFORE
MASS
162
AREA
505
HEIGHT
54
18-Apr-2024
13:21
ALSHS
Server



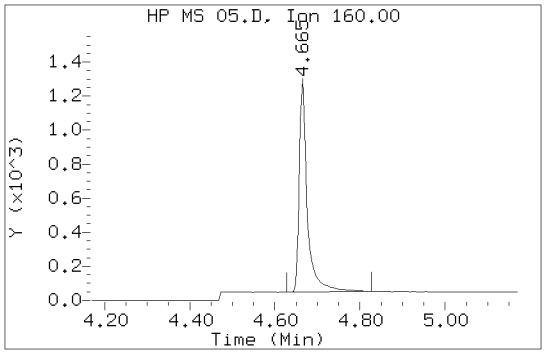
AFTER
MASS
162
AREA
3749
HEIGHT
2972
28-May-2024
13:05



BEFORE
MASS
160
AREA
490
HEIGHT
49
18-Apr-2024
13:21
ALSHS
Server



AFTER
MASS
160
AREA
1625
HEIGHT
1253
28-May-2024
13:05



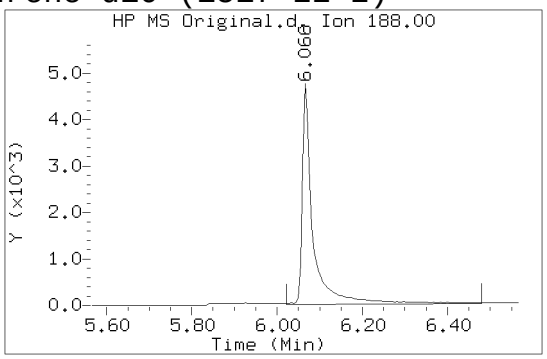
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D
Inj Date : 18-APR-2024 13:07
InstruID : SV6.i
LabSampID : 14DX-0.03

Phenanthrene-d10 (1517-22-2)

Reason Code:

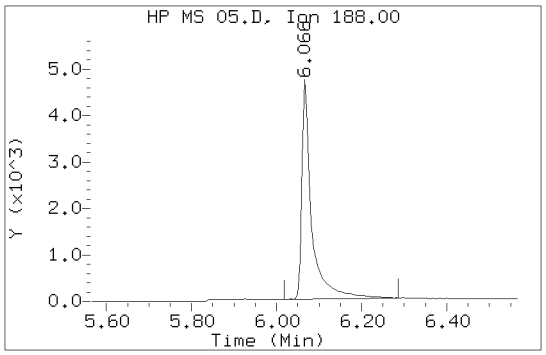
BEFORE

MASS
188
AREA
8422
HEIGHT
4756
18-Apr-2024
13:21
ALSHS
Server



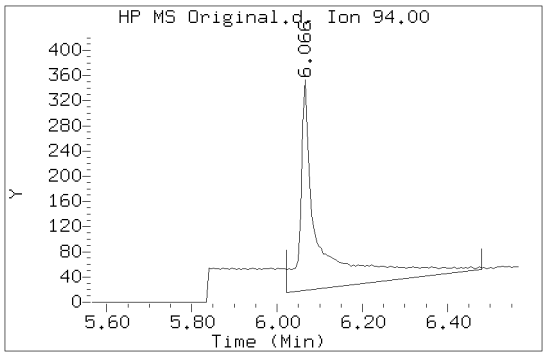
AFTER

MASS
188
AREA
7578
HEIGHT
4722
28-May-2024
13:05



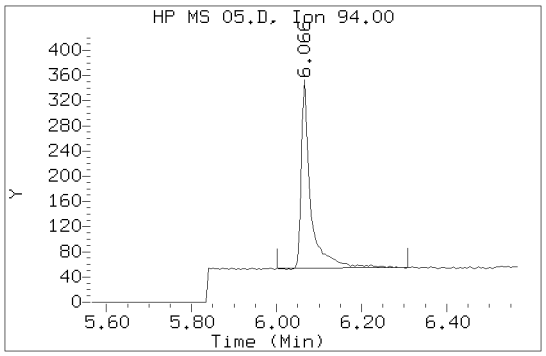
BEFORE

MASS
94
AREA
1045
HEIGHT
334
18-Apr-2024
13:21
ALSHS
Server



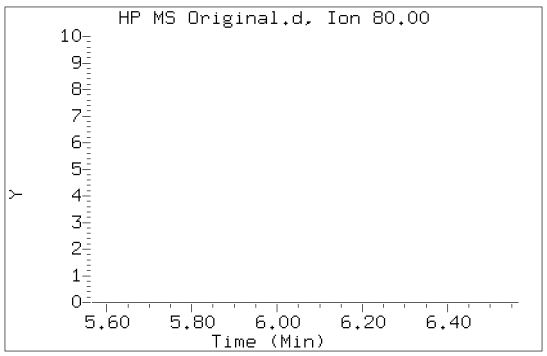
AFTER

MASS
94
AREA
460
HEIGHT
298
28-May-2024
13:05



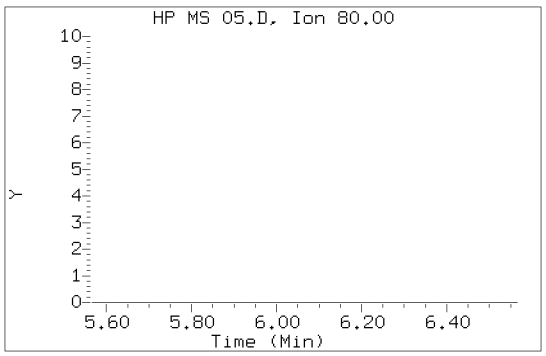
BEFORE

MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
13:21
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
28-May-2024
13:05

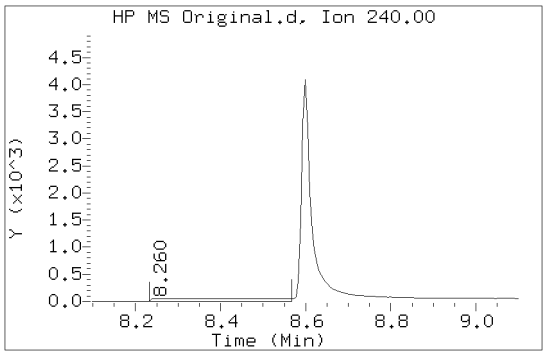


Chrysene-d12 (1719-03-5)

Reason Code:

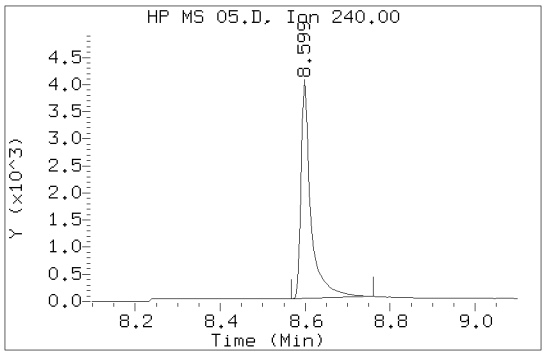
BEFORE

MASS
240
AREA
966
HEIGHT
50
18-Apr-2024
13:21
ALSHS
Server



AFTER

MASS
240
AREA
6445
HEIGHT
4036
28-May-2024
13:05



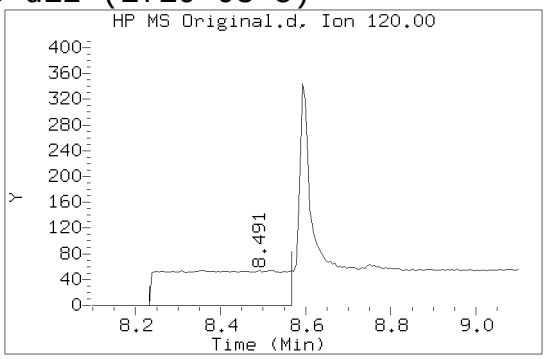
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D
Inj Date : 18-APR-2024 13:07
InstruID : SV6.i
LabSampID : 14DX-0.03

Chrysene-d12 (1719-03-5)

Reason Code:

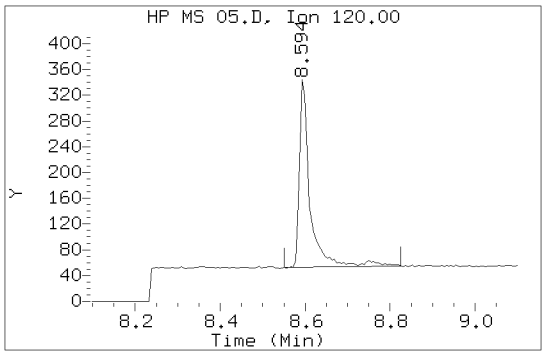
BEFORE

MASS
120
AREA
1053
HEIGHT
55
18-Apr-2024
13:21
ALSHS
Server



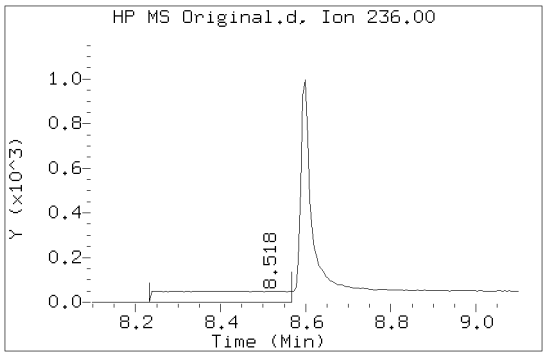
AFTER

MASS
120
AREA
500
HEIGHT
290
28-May-2024
13:05



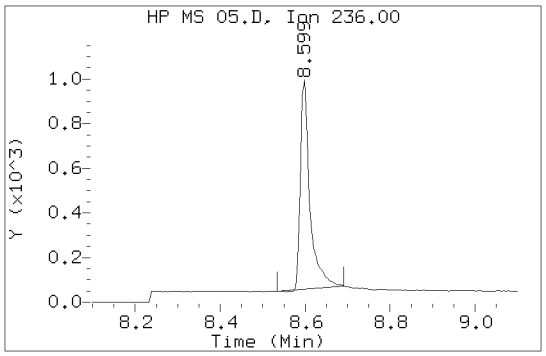
BEFORE

MASS
236
AREA
963
HEIGHT
50
18-Apr-2024
13:21
ALSHS
Server



AFTER

MASS
236
AREA
1446
HEIGHT
938
28-May-2024
13:05

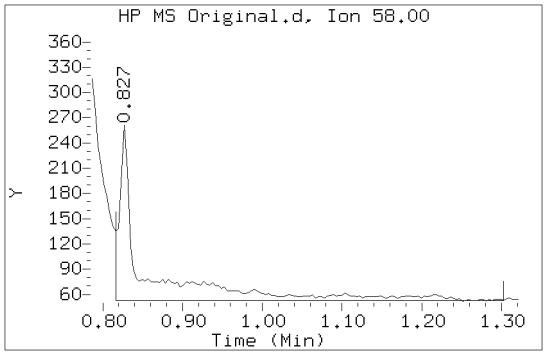


1,4-Dioxane ()

Reason Code:

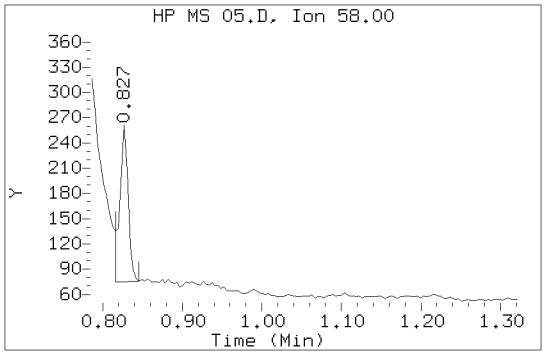
BEFORE

MASS
58
AREA
414
HEIGHT
208
18-Apr-2024
13:21
ALSHS
Server



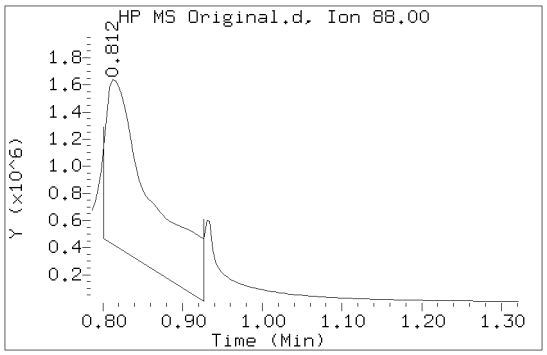
AFTER

MASS
58
AREA
138
HEIGHT
185
28-May-2024
13:05



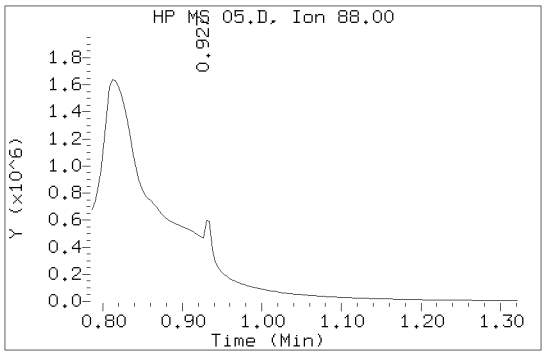
BEFORE

MASS
88
AREA
4998904
HEIGHT
1209480
18-Apr-2024
13:21
ALSHS
Server



AFTER

MASS
88
AREA
0
HEIGHT
0
28-May-2024
13:05

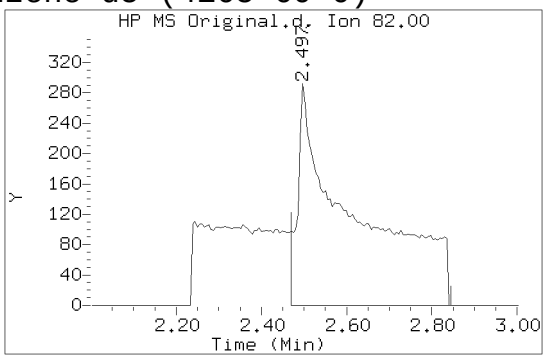


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D
Inj Date : 18-APR-2024 13:07
InstruID : SV6.i
LabSampID : 14DX-0.03

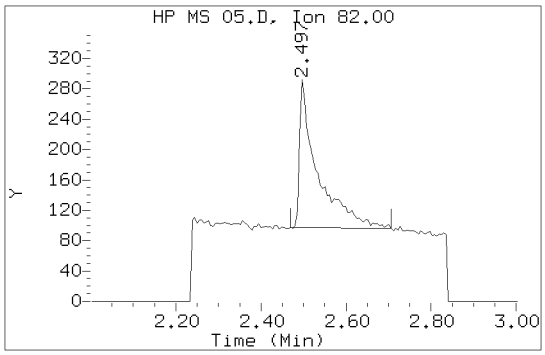
Nitrobenzene-d5 (4165-60-0)

Reason Code:

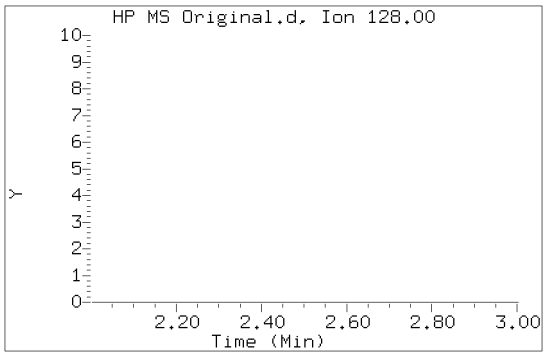
BEFORE
MASS
82
AREA
2662
HEIGHT
292
18-Apr-2024
13:21
ALSHS
Server



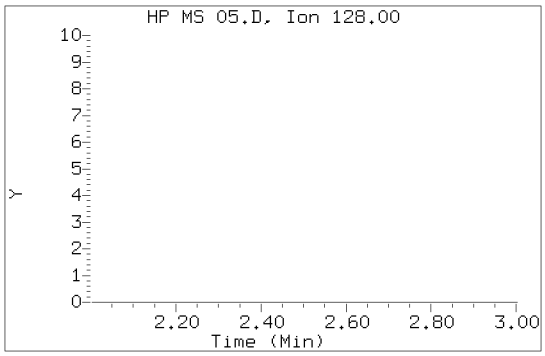
AFTER
MASS
82
AREA
570
HEIGHT
195
28-May-2024
13:05



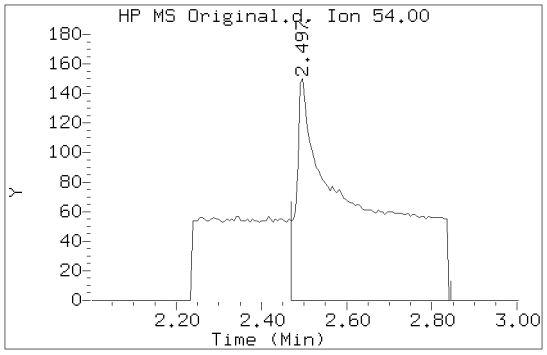
BEFORE
MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
13:21
ALSHS
Server



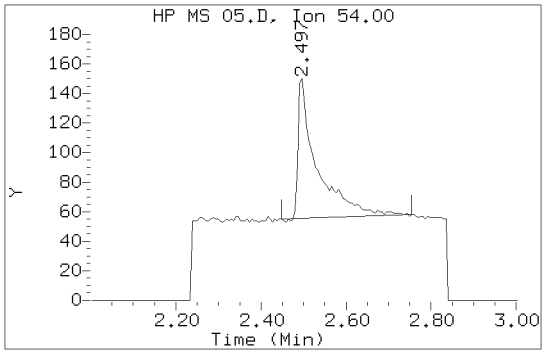
AFTER
MASS
128
AREA
0
HEIGHT
0
28-May-2024
13:05



BEFORE
MASS
54
AREA
1538
HEIGHT
150
18-Apr-2024
13:21
ALSHS
Server



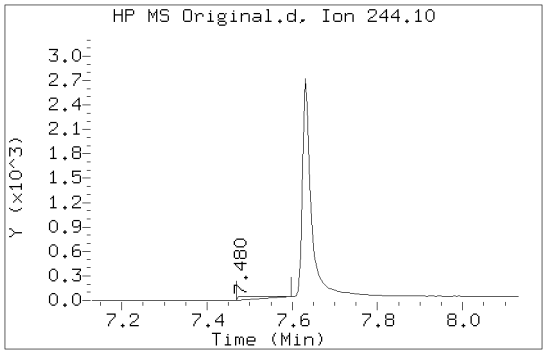
AFTER
MASS
54
AREA
289
HEIGHT
94
28-May-2024
13:05



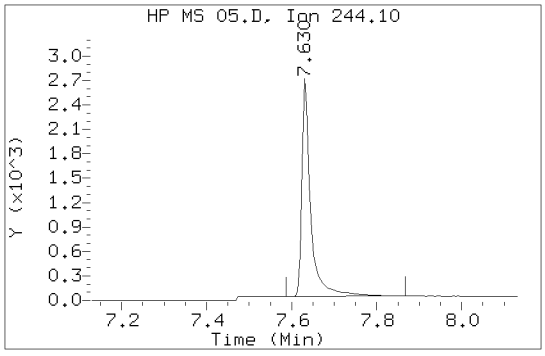
4-Terphenyl-d14 (1718-51-0)

Reason Code:

BEFORE
MASS
244.1
AREA
174
HEIGHT
44
18-Apr-2024
13:21
ALSHS
Server



AFTER
MASS
244.1
AREA
3857
HEIGHT
2674
28-May-2024
13:05



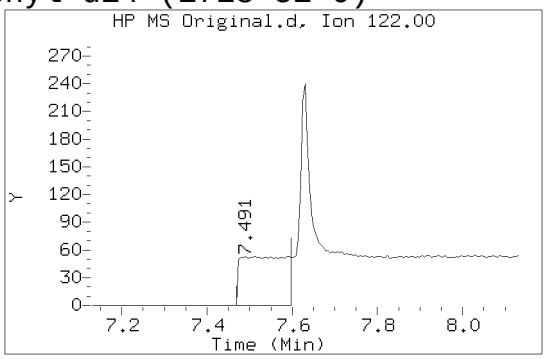
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D
Inj Date : 18-APR-2024 13:07
InstruID : SV6.i
LabSampID : 14DX-0.03

4-Terphenyl-d14 (1718-51-0)

Reason Code:

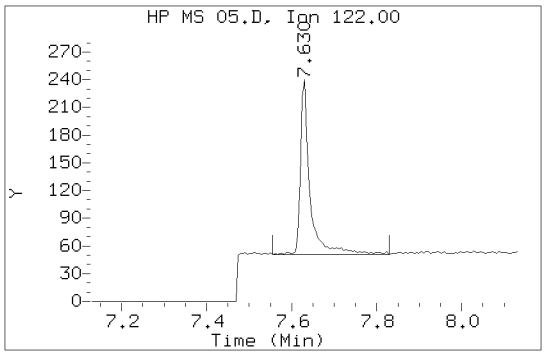
BEFORE

MASS
122
AREA
401
HEIGHT
53
18-Apr-2024
13:21
ALSHS
Server



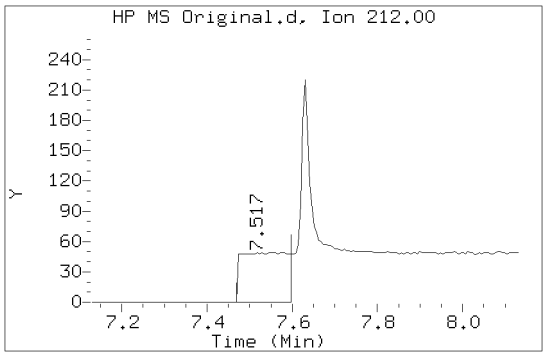
AFTER

MASS
122
AREA
296
HEIGHT
189
28-May-2024
13:05



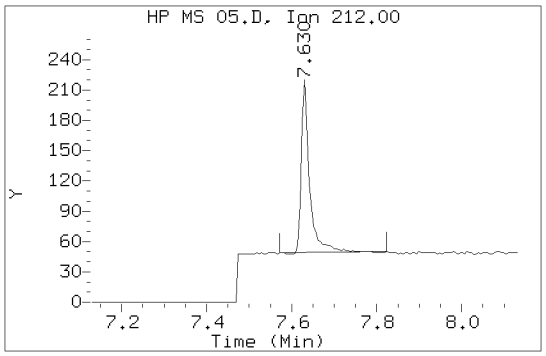
BEFORE

MASS
212
AREA
374
HEIGHT
49
18-Apr-2024
13:21
ALSHS
Server



AFTER

MASS
212
AREA
227
HEIGHT
170
28-May-2024
13:05

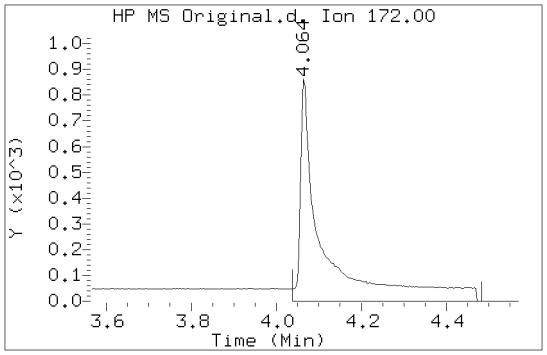


2-Fluorobiphenyl (321-60-8)

Reason Code:

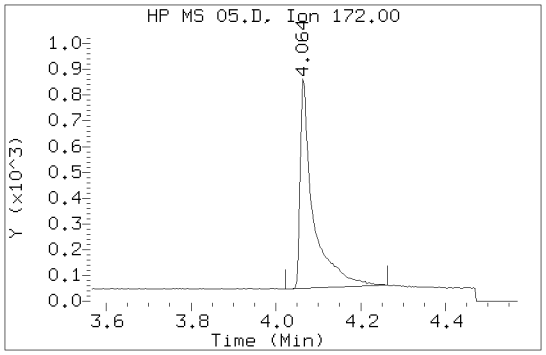
BEFORE

MASS
172
AREA
3193
HEIGHT
863
18-Apr-2024
13:21
ALSHS
Server



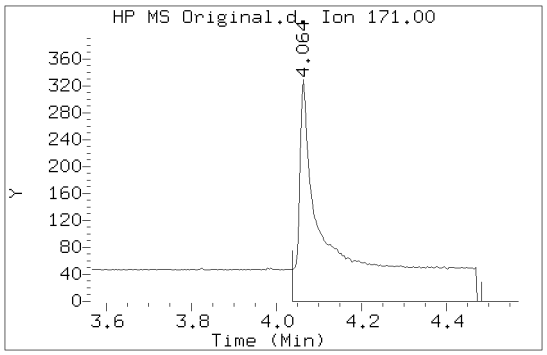
AFTER

MASS
172
AREA
1731
HEIGHT
812
28-May-2024
13:05



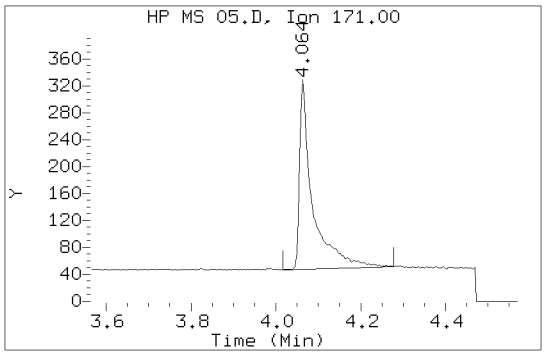
BEFORE

MASS
171
AREA
1906
HEIGHT
329
18-Apr-2024
13:21
ALSHS
Server



AFTER

MASS
171
AREA
602
HEIGHT
281
28-May-2024
13:05



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D Page 1
Report Date: 17-Jul-2024 16:41

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Lab Smp Id: 14DX-0.05
Inj Date : 18-APR-2024 13:25
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.05
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 17-Jul-2024 16:39 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 13:25 Cal File: 06.D
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	2.094	2.089	(1.000)	3152	0.10000	(aM)
* 45 Naphthalene-d8	136	3.076	3.076	(1.000)	9502	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.497	2.502	(0.812)	1589	0.05000	0.05570(M)
* 86 Acenaphthene-d10	164	4.665	4.671	(1.000)	6015	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.064	4.067	(0.871)	4588	0.05000	0.04990(M)
* 126 Phenanthrene-d10	188	6.065	6.065	(1.000)	11597	0.10000	(M)
* 182 Chrysene-d12	240	8.599	8.599	(1.000)	10029	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.630	7.630	(0.887)	10047	0.05000	0.04918(M)
* 198 Perylene-d12	264	10.189	10.189	(1.000)	10408	0.10000	(M)
1 1,4-Dioxane	58	0.849	0.820	(0.406)	339	0.05000	0.05021(M)

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\SV6.i\240418.b\06.D

Date : 18-APR-2024 13:25

Client ID:

Instrument: SV6.i

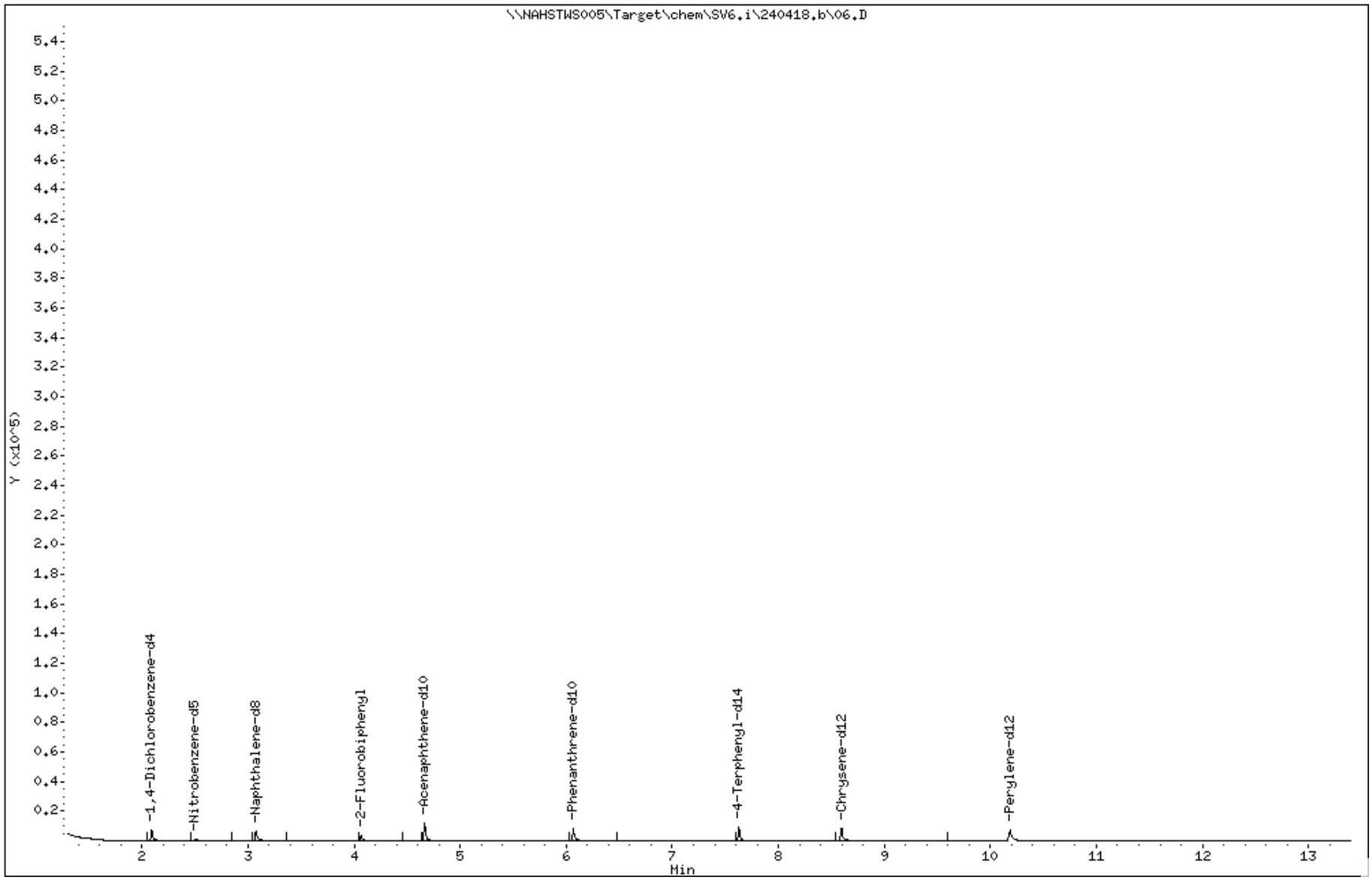
Sample Info: 14DX-0.05

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



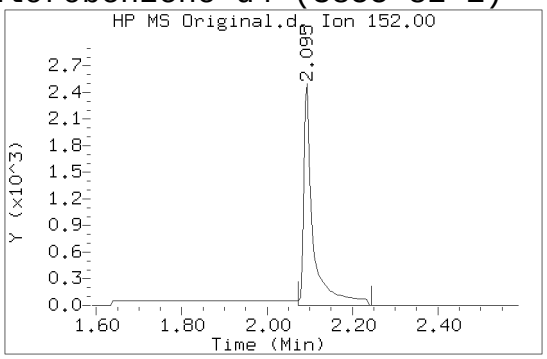
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Inj Date : 18-APR-2024 13:25
InstruID : SV6.i
LabSampID : 14DX-0.05

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

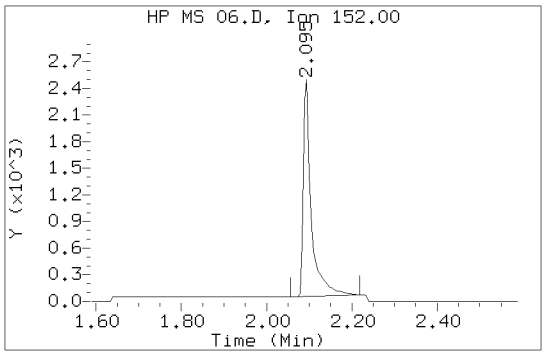
BEFORE

MASS
152
AREA
3790
HEIGHT
2499
18-Apr-2024
13:40
ALSHS
Server



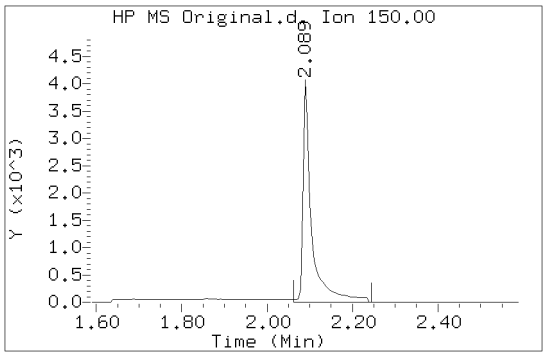
AFTER

MASS
152
AREA
3152
HEIGHT
2443
28-May-2024
13:05



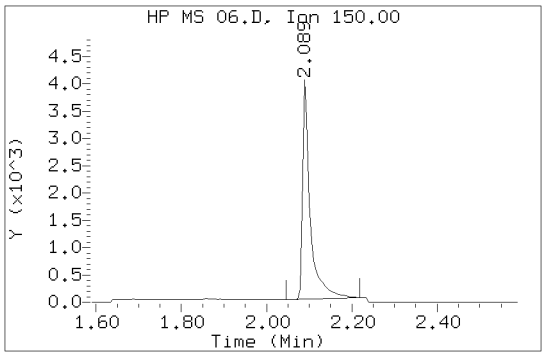
BEFORE

MASS
150
AREA
5683
HEIGHT
4072
18-Apr-2024
13:40
ALSHS
Server



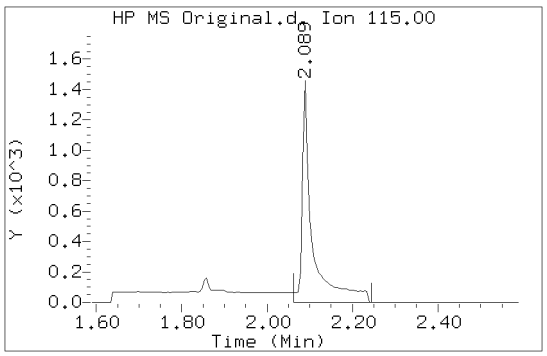
AFTER

MASS
150
AREA
4936
HEIGHT
4013
28-May-2024
13:05



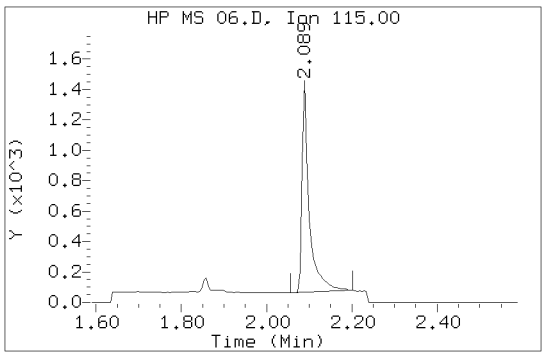
BEFORE

MASS
115
AREA
2390
HEIGHT
1458
18-Apr-2024
13:40
ALSHS
Server



AFTER

MASS
115
AREA
1620
HEIGHT
1390
28-May-2024
13:05

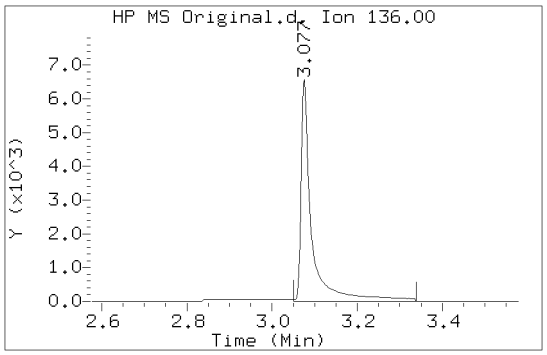


Naphthalene-d8 (1146-65-2)

Reason Code:

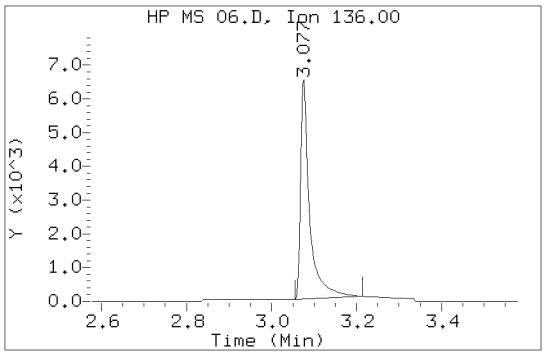
BEFORE

MASS
136
AREA
11303
HEIGHT
6569
18-Apr-2024
13:40
ALSHS
Server



AFTER

MASS
136
AREA
9502
HEIGHT
6499
28-May-2024
13:05



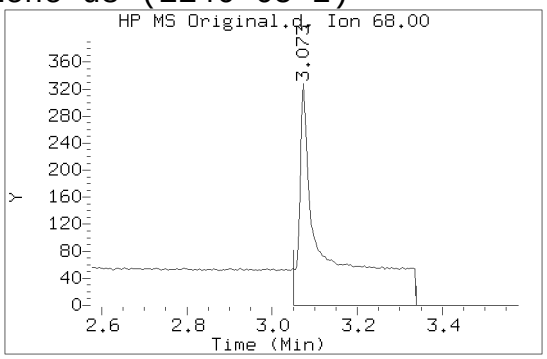
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Inj Date : 18-APR-2024 13:25
InstruID : SV6.i
LabSampID : 14DX-0.05

Naphthalene-d8 (1146-65-2)

Reason Code:

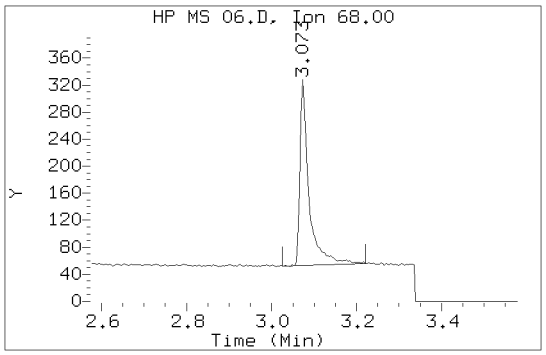
BEFORE

MASS
68
AREA
1344
HEIGHT
328
18-Apr-2024
13:40
ALSHS
Server



AFTER

MASS
68
AREA
401
HEIGHT
275
28-May-2024
13:05

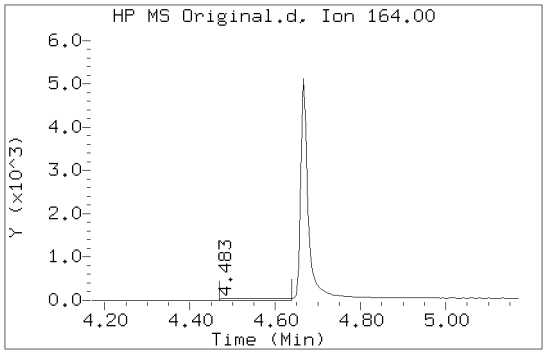


Acenaphthene-d10 (15067-26-2)

Reason Code:

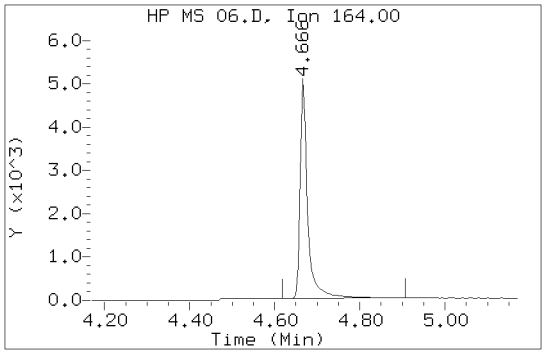
BEFORE

MASS
164
AREA
496
HEIGHT
51
18-Apr-2024
13:40
ALSHS
Server



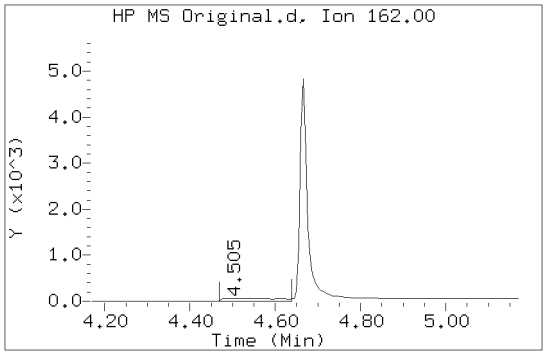
AFTER

MASS
164
AREA
6015
HEIGHT
5068
28-May-2024
13:05



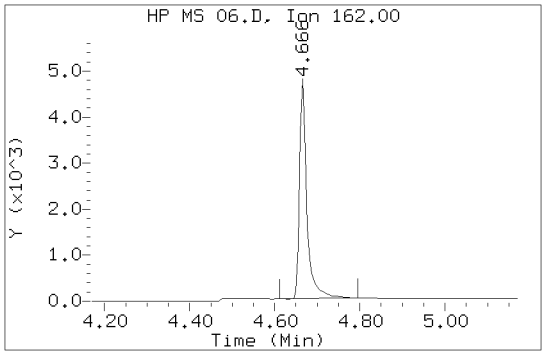
BEFORE

MASS
162
AREA
502
HEIGHT
53
18-Apr-2024
13:40
ALSHS
Server



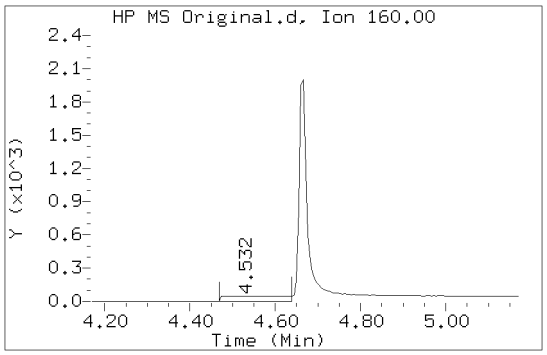
AFTER

MASS
162
AREA
5625
HEIGHT
4775
28-May-2024
13:05



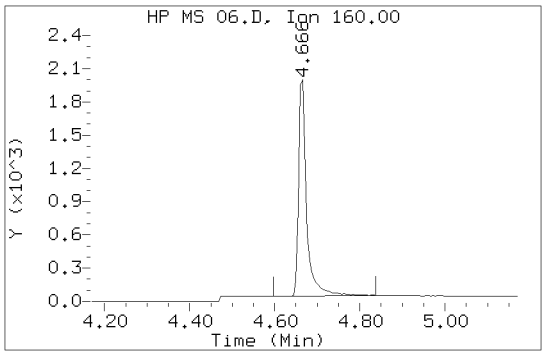
BEFORE

MASS
160
AREA
484
HEIGHT
49
18-Apr-2024
13:40
ALSHS
Server



AFTER

MASS
160
AREA
2508
HEIGHT
1951
28-May-2024
13:05



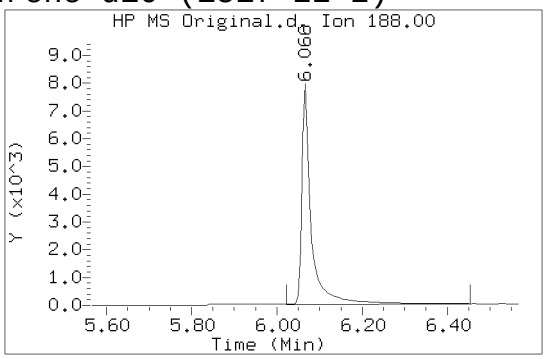
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Inj Date : 18-APR-2024 13:25
InstruID : SV6.i
LabSampID : 14DX-0.05

Phenanthrene-d10 (1517-22-2)

Reason Code:

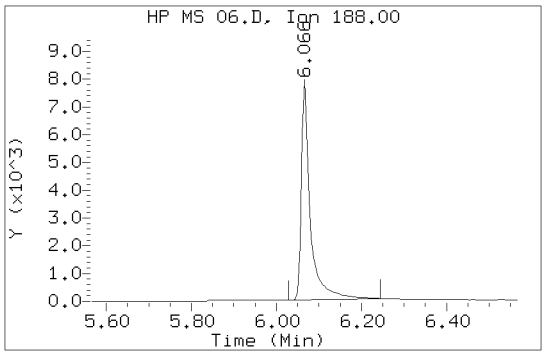
BEFORE

MASS
188
AREA
12630
HEIGHT
7964
18-Apr-2024
13:40
ALSHS
Server



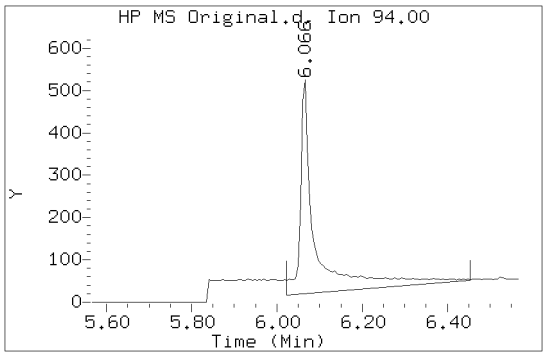
AFTER

MASS
188
AREA
11597
HEIGHT
7928
28-May-2024
13:05



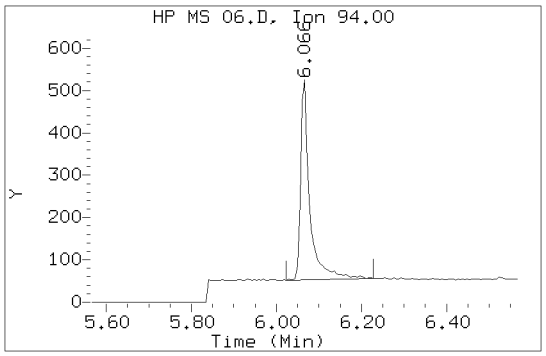
BEFORE

MASS
94
AREA
1254
HEIGHT
505
18-Apr-2024
13:40
ALSHS
Server



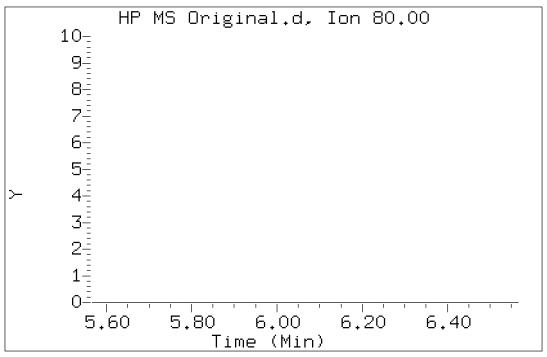
AFTER

MASS
94
AREA
716
HEIGHT
472
28-May-2024
13:05



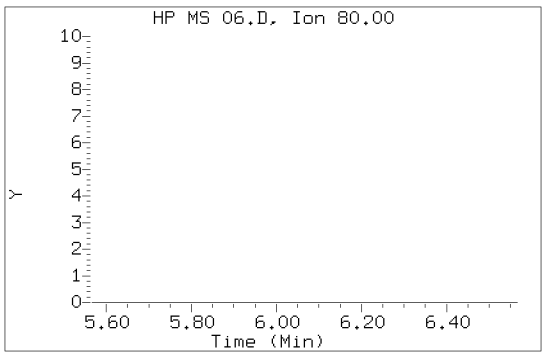
BEFORE

MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
13:40
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
28-May-2024
13:05

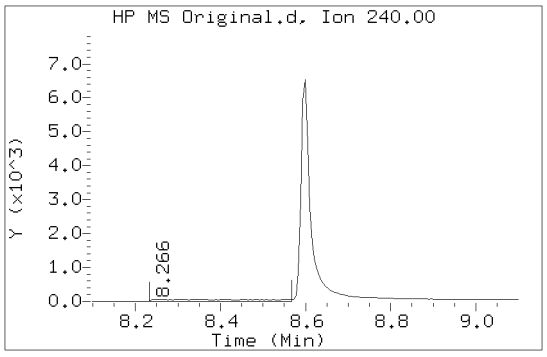


Chrysene-d12 (1719-03-5)

Reason Code:

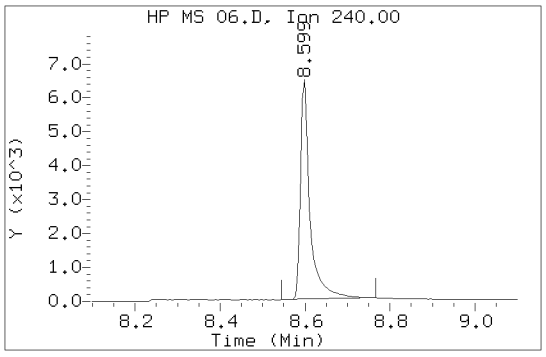
BEFORE

MASS
240
AREA
955
HEIGHT
50
18-Apr-2024
13:40
ALSHS
Server



AFTER

MASS
240
AREA
10029
HEIGHT
6473
28-May-2024
13:05

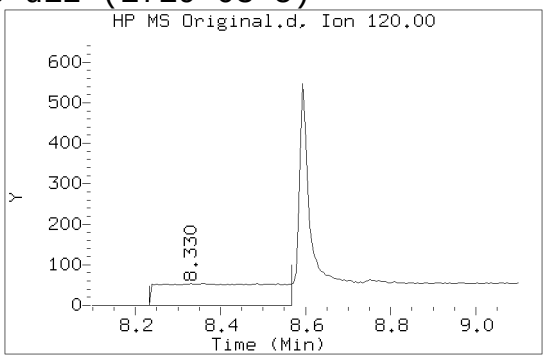


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Inj Date : 18-APR-2024 13:25
InstruID : SV6.i
LabSampID : 14DX-0.05

Chrysene-d12 (1719-03-5)

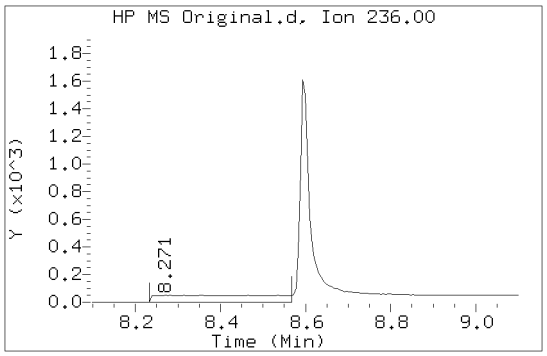
BEFORE

MASS
120
AREA
1034
HEIGHT
53
18-Apr-2024
13:40
ALSHS
Server



BEFORE

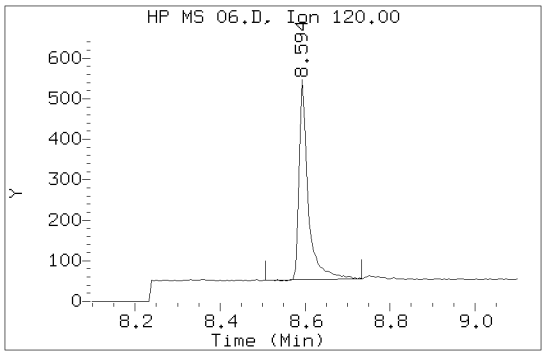
MASS
236
AREA
955
HEIGHT
49
18-Apr-2024
13:40
ALSHS
Server



Reason Code:

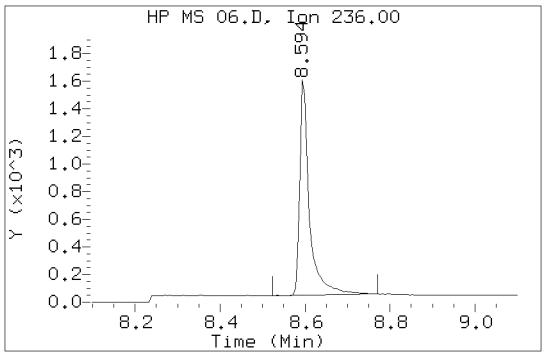
AFTER

MASS
120
AREA
729
HEIGHT
493
28-May-2024
13:05



AFTER

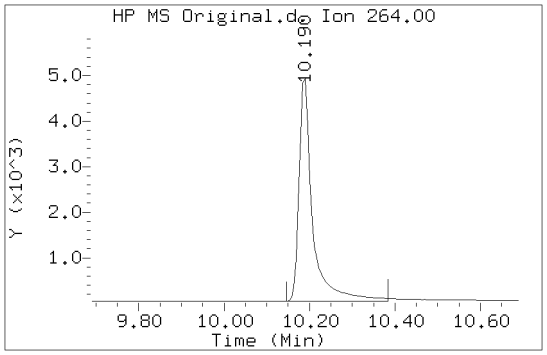
MASS
236
AREA
2416
HEIGHT
1557
28-May-2024
13:05



Perylene-d12 (1520-96-3)

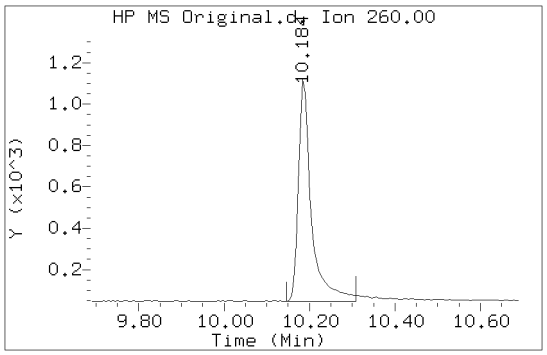
BEFORE

MASS
264
AREA
10683
HEIGHT
4875
18-Apr-2024
13:40
ALSHS
Server



BEFORE

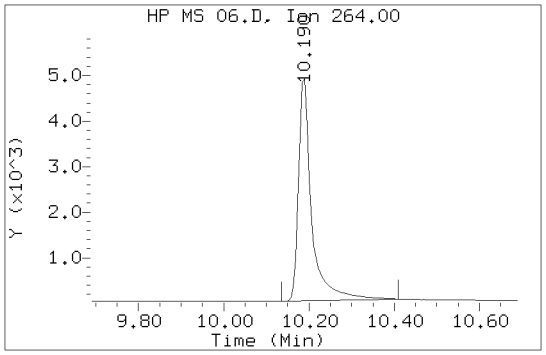
MASS
260
AREA
2254
HEIGHT
1070
18-Apr-2024
13:40
ALSHS
Server



Reason Code:

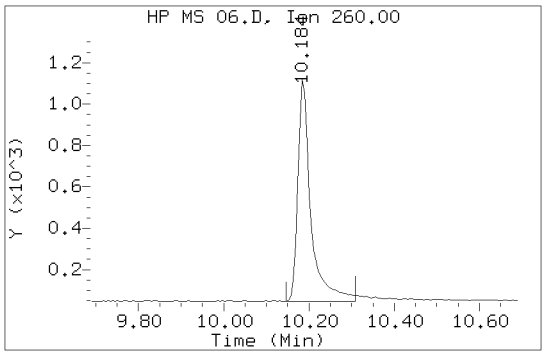
AFTER

MASS
264
AREA
10408
HEIGHT
4868
28-May-2024
13:05



AFTER

MASS
260
AREA
2254
HEIGHT
1070
28-May-2024
13:05



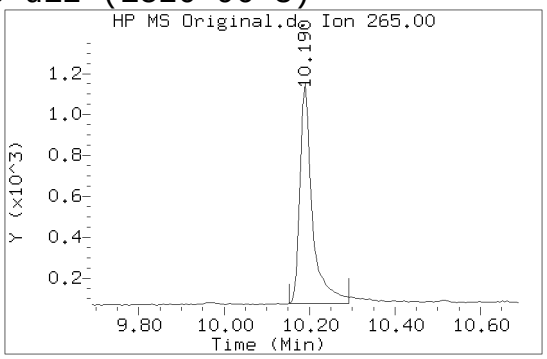
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Inj Date : 18-APR-2024 13:25
InstruID : SV6.i
LabSampID : 14DX-0.05

Perylene-d12 (1520-96-3)

Reason Code:

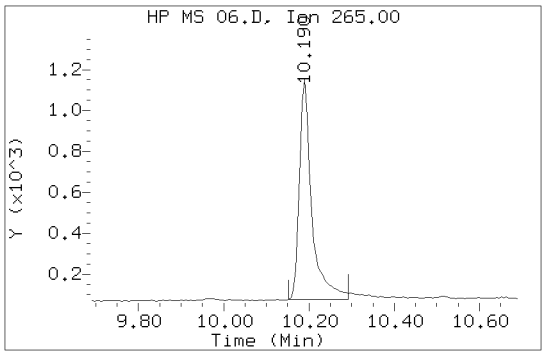
BEFORE

MASS
265
AREA
2161
HEIGHT
1074
18-Apr-2024
13:40
ALSHS
Server



AFTER

MASS
265
AREA
2161
HEIGHT
1074
28-May-2024
13:05

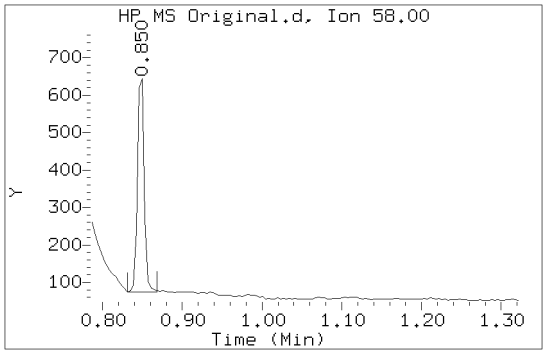


1,4-Dioxane ()

Reason Code:

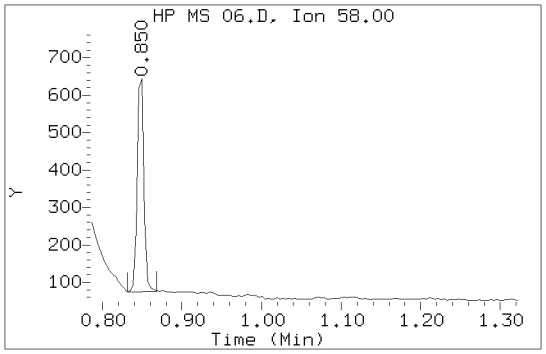
BEFORE

MASS
58
AREA
339
HEIGHT
569
18-Apr-2024
13:40
ALSHS
Server



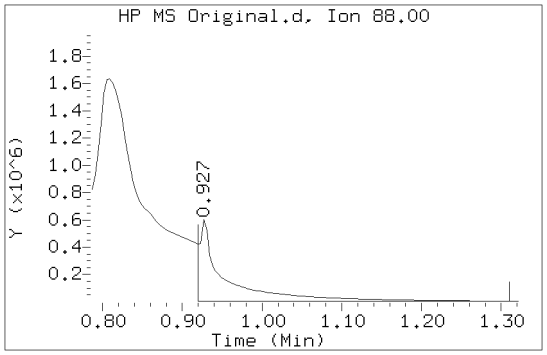
AFTER

MASS
58
AREA
339
HEIGHT
568
28-May-2024
13:05



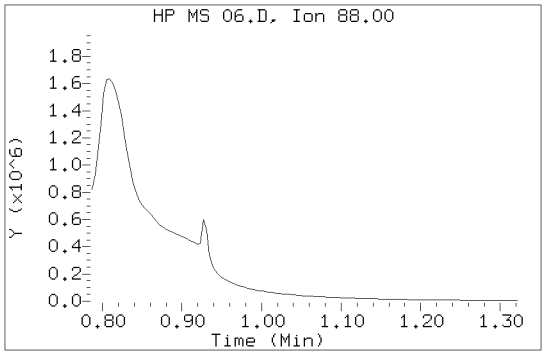
BEFORE

MASS
88
AREA
1337438
HEIGHT
596391
18-Apr-2024
13:40
ALSHS
Server



AFTER

MASS
88
AREA
0
HEIGHT
0
28-May-2024
13:05

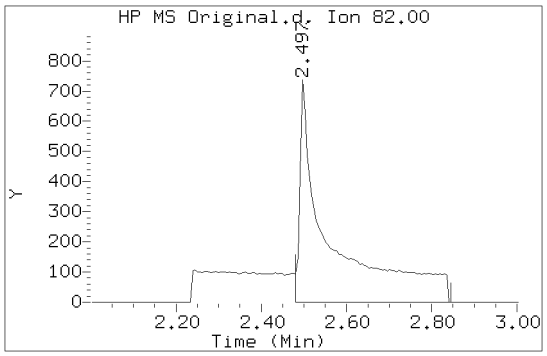


Nitrobenzene-d5 (4165-60-0)

Reason Code:

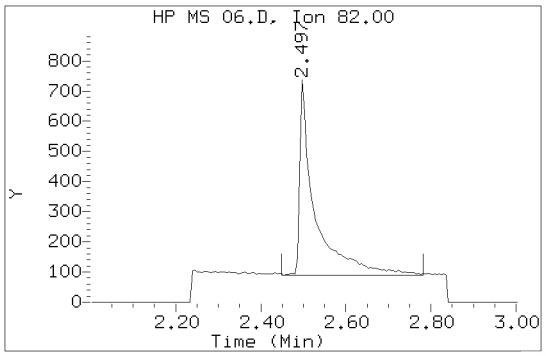
BEFORE

MASS
82
AREA
3516
HEIGHT
737
18-Apr-2024
13:40
ALSHS
Server



AFTER

MASS
82
AREA
1589
HEIGHT
647
28-May-2024
13:05

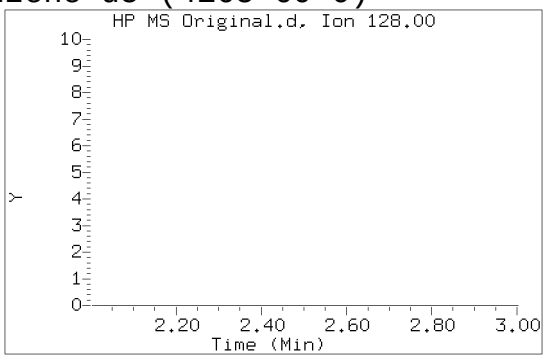


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Inj Date : 18-APR-2024 13:25
InstruID : SV6.i
LabSampID : 14DX-0.05

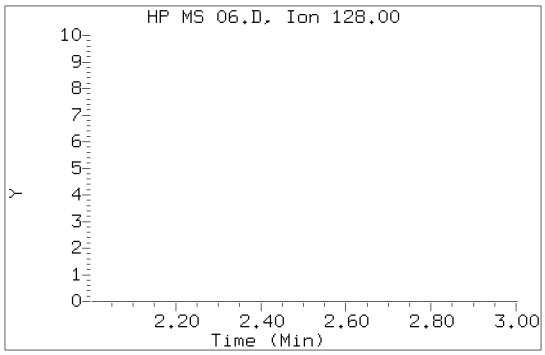
Nitrobenzene-d5 (4165-60-0)

Reason Code:

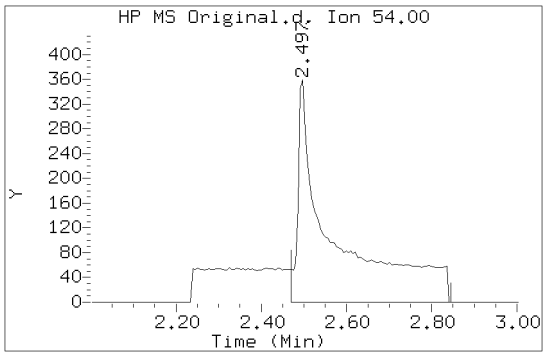
BEFORE
MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
13:40
ALSHS
Server



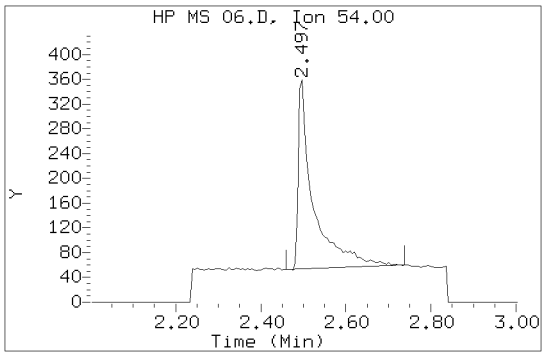
AFTER
MASS
128
AREA
0
HEIGHT
0
28-May-2024
13:05



BEFORE
MASS
54
AREA
1999
HEIGHT
359
18-Apr-2024
13:40
ALSHS
Server



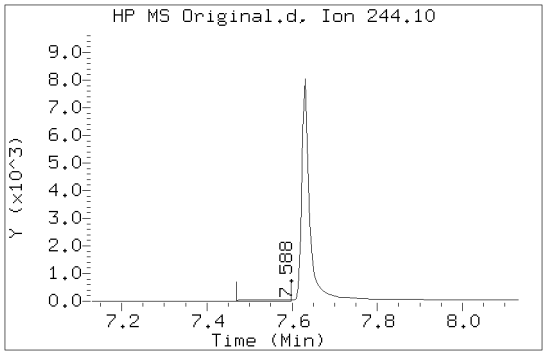
AFTER
MASS
54
AREA
745
HEIGHT
305
28-May-2024
13:05



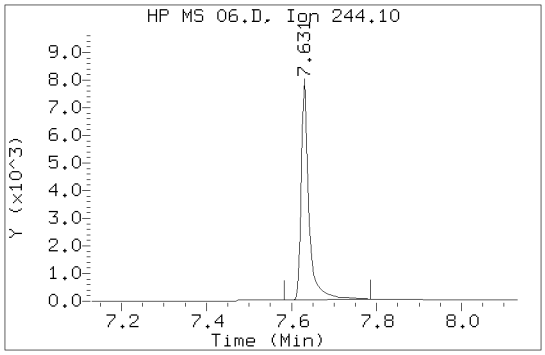
4-Terphenyl-d14 (1718-51-0)

Reason Code:

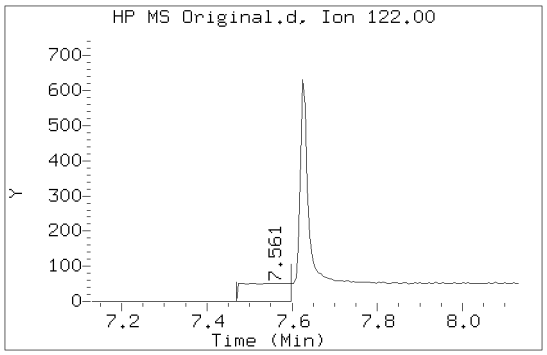
BEFORE
MASS
244.1
AREA
363
HEIGHT
48
18-Apr-2024
13:40
ALSHS
Server



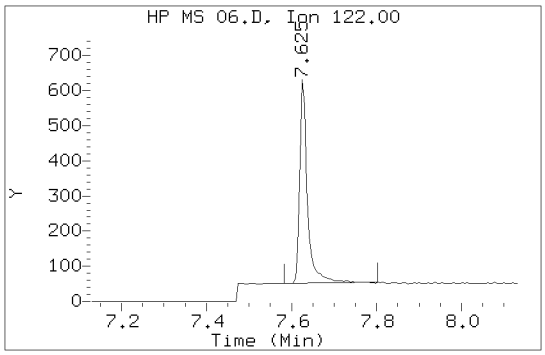
AFTER
MASS
244.1
AREA
10047
HEIGHT
7987
28-May-2024
13:05



BEFORE
MASS
122
AREA
394
HEIGHT
52
18-Apr-2024
13:40
ALSHS
Server



AFTER
MASS
122
AREA
741
HEIGHT
579
28-May-2024
13:05



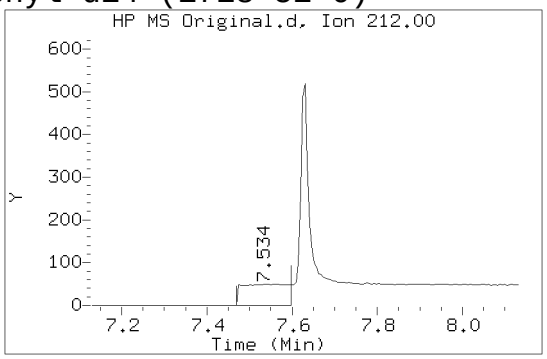
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Inj Date : 18-APR-2024 13:25
InstruID : SV6.i
LabSampID : 14DX-0.05

4-Terphenyl-d14 (1718-51-0)

Reason Code:

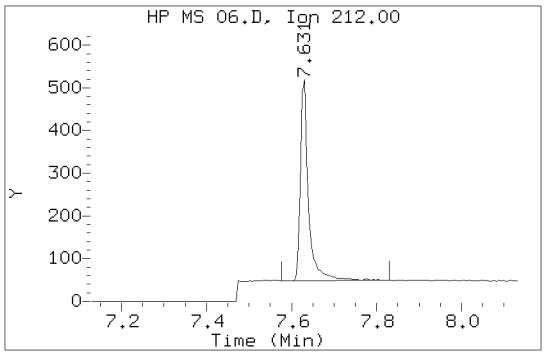
BEFORE

MASS
212
AREA
372
HEIGHT
49
18-Apr-2024
13:40
ALSHS
Server



AFTER

MASS
212
AREA
623
HEIGHT
470
28-May-2024
13:05

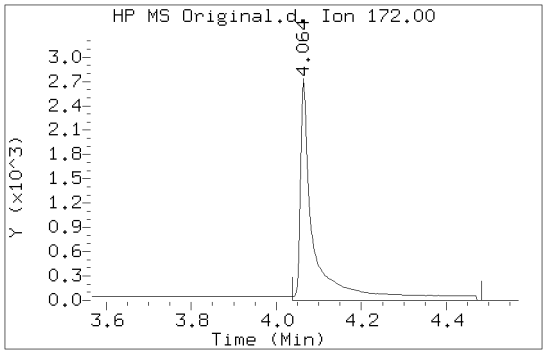


2-Fluorobiphenyl (321-60-8)

Reason Code:

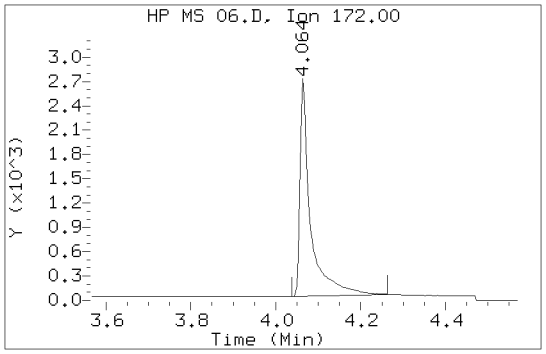
BEFORE

MASS
172
AREA
6214
HEIGHT
2735
18-Apr-2024
13:40
ALSHS
Server



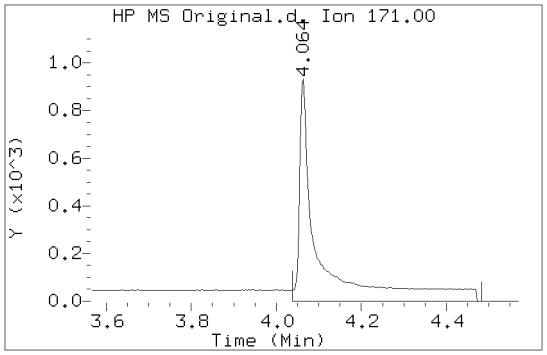
AFTER

MASS
172
AREA
4588
HEIGHT
2684
28-May-2024
13:05



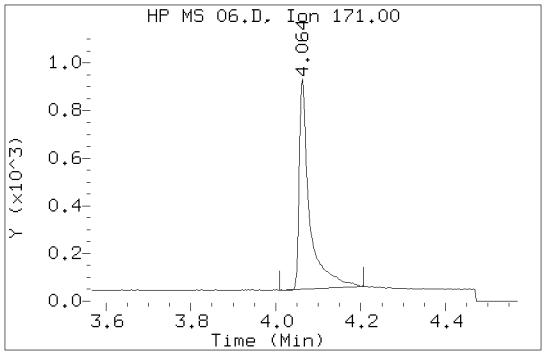
BEFORE

MASS
171
AREA
2920
HEIGHT
933
18-Apr-2024
13:40
ALSHS
Server



AFTER

MASS
171
AREA
1481
HEIGHT
881
28-May-2024
13:05



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D Page 1
Report Date: 17-Jul-2024 16:41

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Lab Smp Id: 14DX-0.10
Inj Date : 18-APR-2024 13:42
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.10
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 17-Jul-2024 16:39 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 13:42 Cal File: 07.D
Als bottle: 7 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	2.089	2.089	(1.000)	2318	0.10000	(aM)
* 45 Naphthalene-d8	136	3.076	3.076	(1.000)	7718	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.496	2.502	(0.812)	2452	0.10000	0.1058(M)
* 86 Acenaphthene-d10	164	4.665	4.671	(1.000)	4530	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.063	4.067	(0.871)	7366	0.10000	0.1064(M)
* 126 Phenanthrene-d10	188	6.065	6.065	(1.000)	8772	0.10000	(M)
* 182 Chrysene-d12	240	8.599	8.599	(1.000)	7453	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.630	7.630	(0.887)	15672	0.10000	0.1032(M)
* 198 Perylene-d12	264	10.189	10.189	(1.000)	7806	0.10000	
1 1,4-Dioxane	58	0.827	0.820	(0.396)	473	0.10000	0.09527(QM)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D

Date : 18-APR-2024 13:42

Client ID:

Instrument: SV6.i

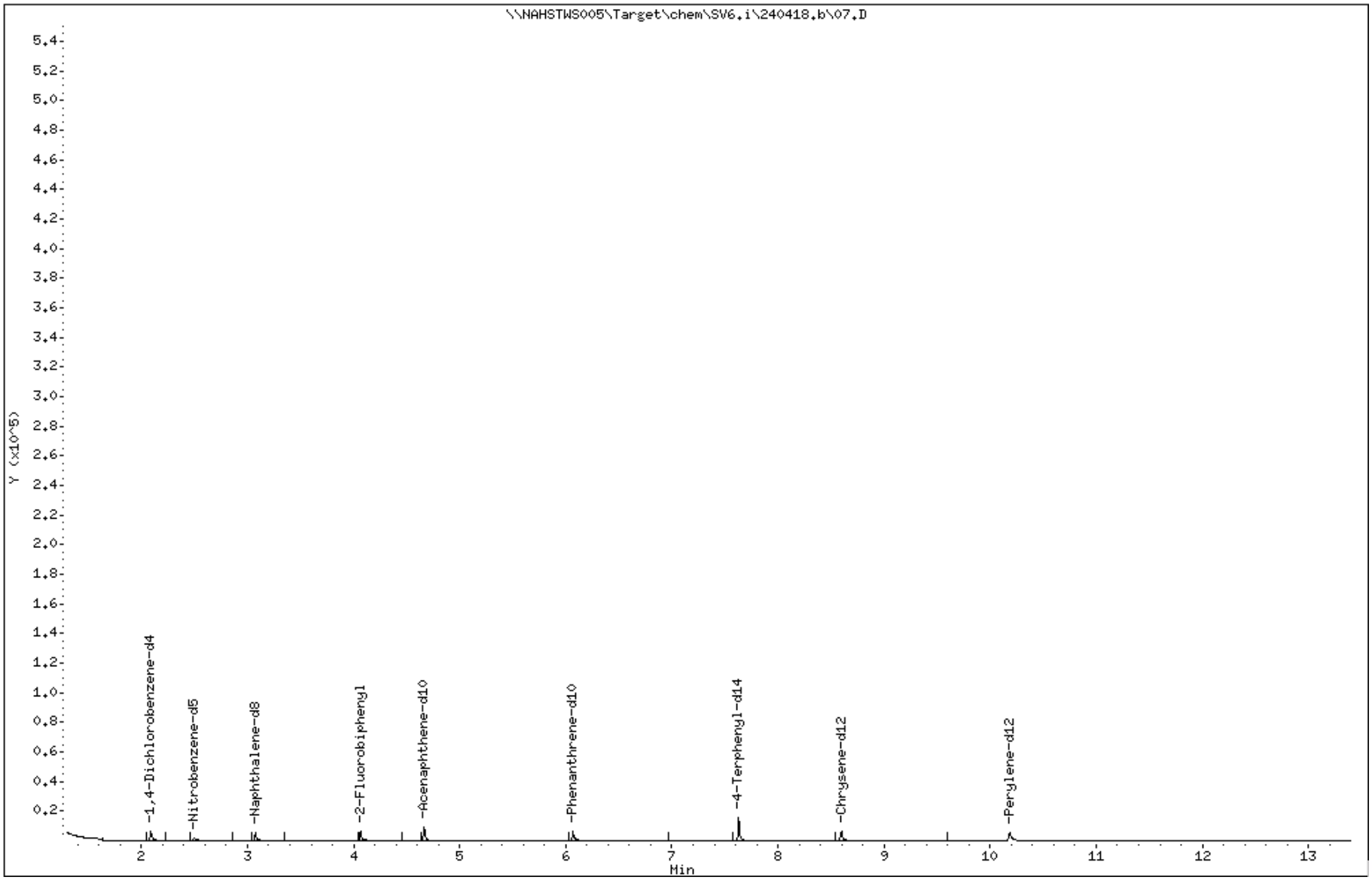
Sample Info: 14DX-0.10

Purge Volume: 1000.0

Operator: LC

Column phase: RTX-5SIL MS

Column diameter: 0.28

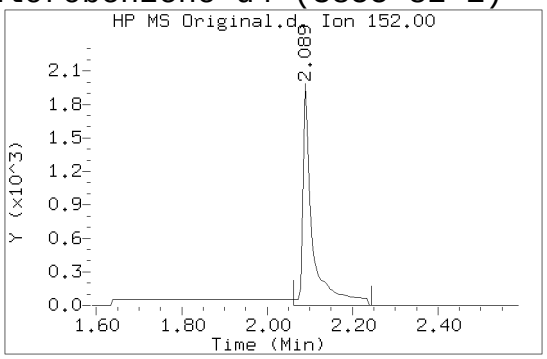


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Inj Date : 18-APR-2024 13:42
InstruID : SV6.i
LabSampID : 14DX-0.10

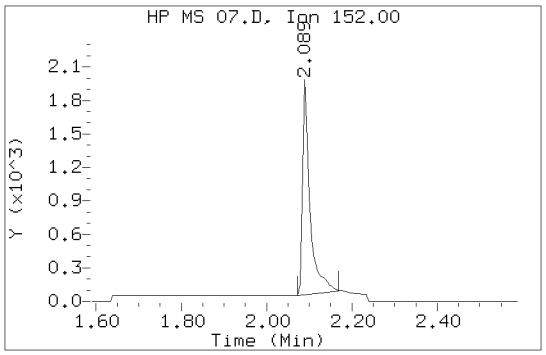
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

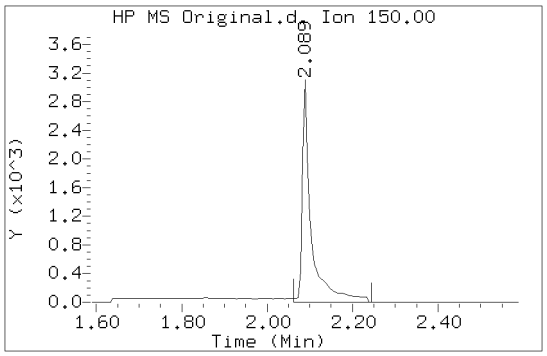
BEFORE
MASS
152
AREA
3091
HEIGHT
1986
18-Apr-2024
13:57
ALSHS
Server



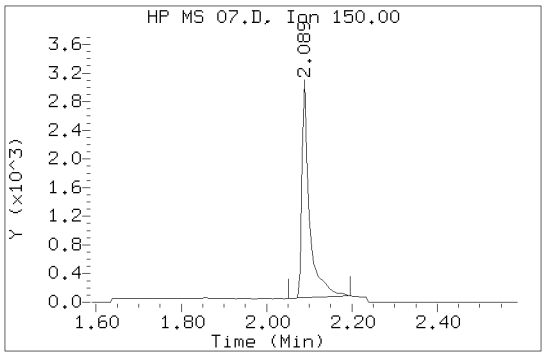
AFTER
MASS
152
AREA
2318
HEIGHT
1925
23-May-2024
08:54



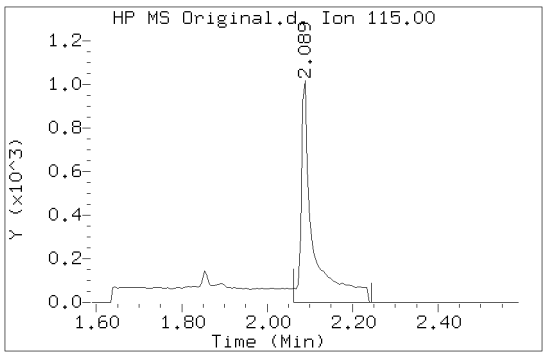
BEFORE
MASS
150
AREA
4519
HEIGHT
3105
18-Apr-2024
13:57
ALSHS
Server



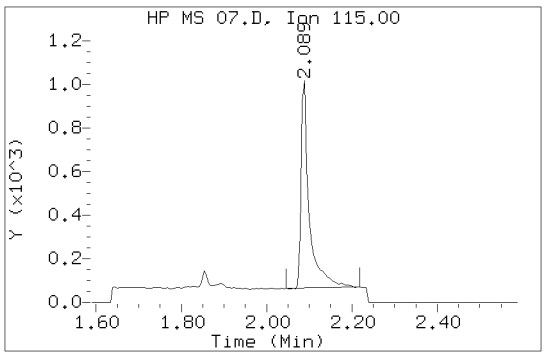
AFTER
MASS
150
AREA
3766
HEIGHT
3045
23-May-2024
08:54



BEFORE
MASS
115
AREA
1993
HEIGHT
1016
18-Apr-2024
13:57
ALSHS
Server



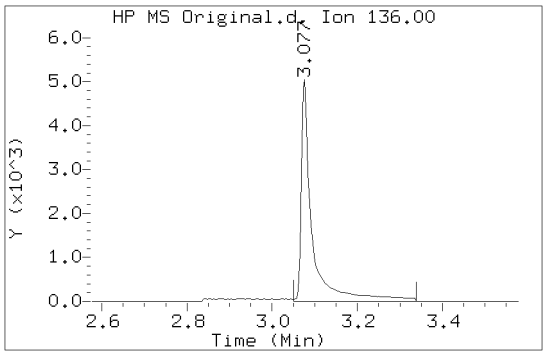
AFTER
MASS
115
AREA
1271
HEIGHT
950
23-May-2024
08:54



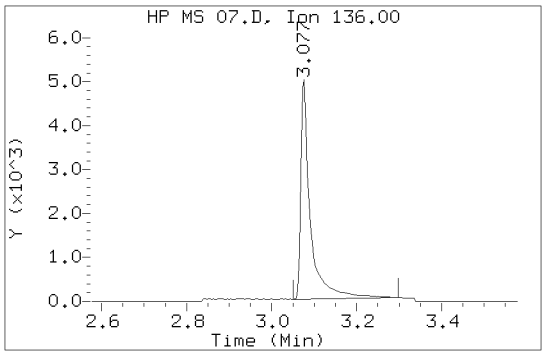
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
8891
HEIGHT
5045
18-Apr-2024
13:57
ALSHS
Server



AFTER
MASS
136
AREA
7718
HEIGHT
4990
23-May-2024
08:54



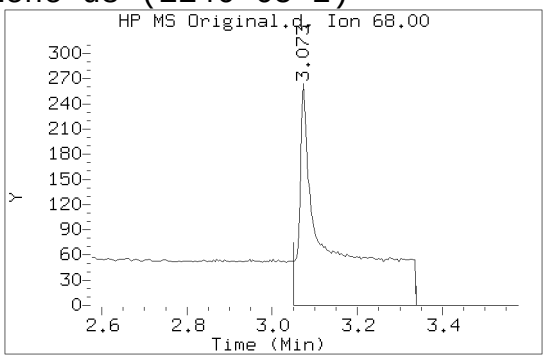
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Inj Date : 18-APR-2024 13:42
InstruID : SV6.i
LabSampID : 14DX-0.10

Naphthalene-d8 (1146-65-2)

Reason Code:

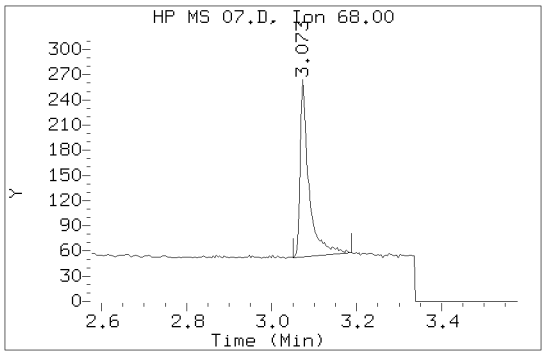
BEFORE

MASS
68
AREA
1251
HEIGHT
264
18-Apr-2024
13:57
ALSHS
Server



AFTER

MASS
68
AREA
296
HEIGHT
211
23-May-2024
08:54

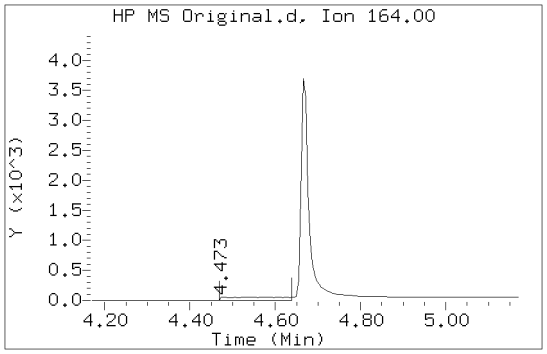


Acenaphthene-d10 (15067-26-2)

Reason Code:

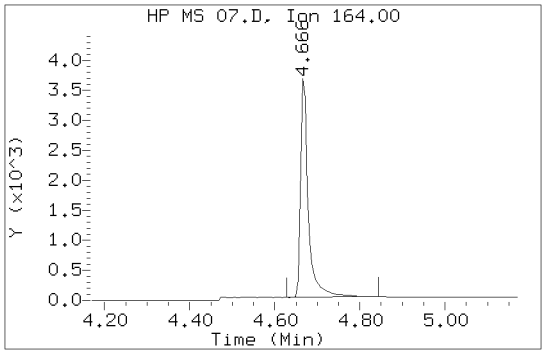
BEFORE

MASS
164
AREA
497
HEIGHT
50
18-Apr-2024
13:57
ALSHS
Server



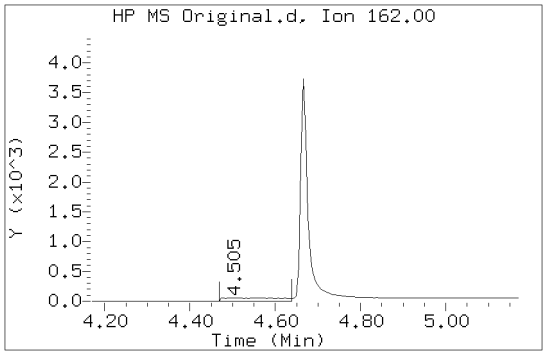
AFTER

MASS
164
AREA
4530
HEIGHT
3643
23-May-2024
08:54



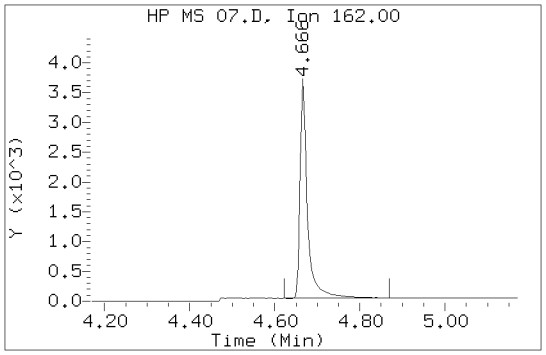
BEFORE

MASS
162
AREA
500
HEIGHT
53
18-Apr-2024
13:57
ALSHS
Server



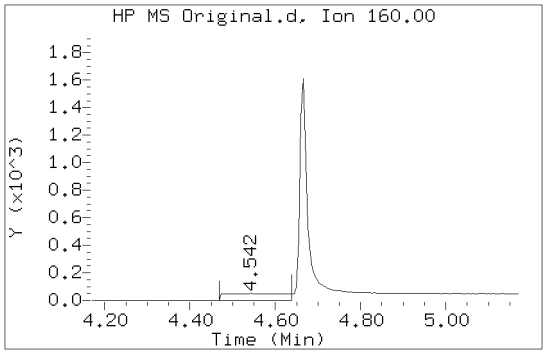
AFTER

MASS
162
AREA
4355
HEIGHT
3679
23-May-2024
08:54



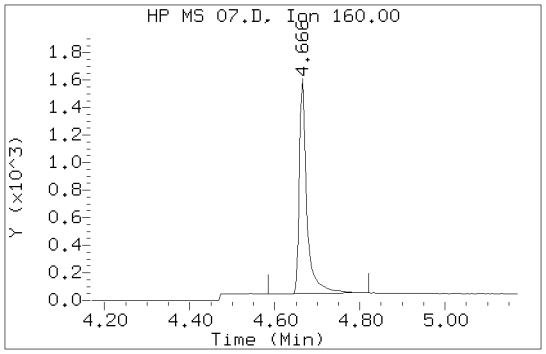
BEFORE

MASS
160
AREA
483
HEIGHT
49
18-Apr-2024
13:57
ALSHS
Server



AFTER

MASS
160
AREA
1883
HEIGHT
1560
23-May-2024
08:54



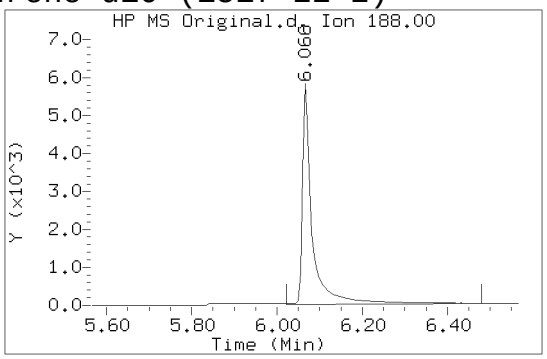
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Inj Date : 18-APR-2024 13:42
InstruID : SV6.i
LabSampID : 14DX-0.10

Phenanthrene-d10 (1517-22-2)

Reason Code:

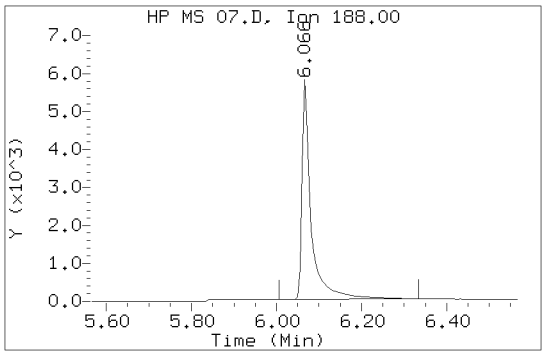
BEFORE

MASS
188
AREA
9529
HEIGHT
5821
18-Apr-2024
13:57
ALSHS
Server



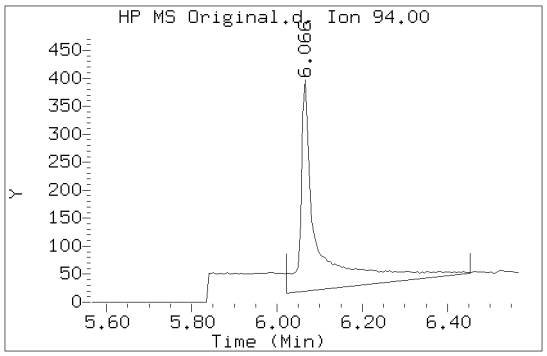
AFTER

MASS
188
AREA
8772
HEIGHT
5788
23-May-2024
08:54



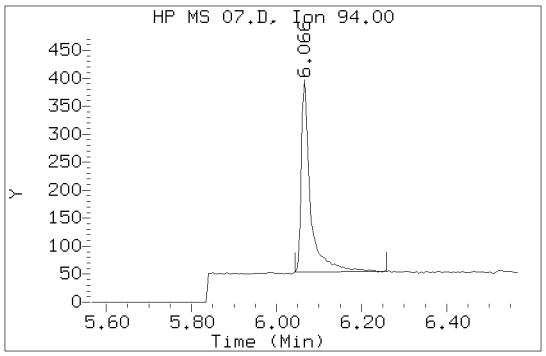
BEFORE

MASS
94
AREA
1042
HEIGHT
377
18-Apr-2024
13:57
ALSHS
Server



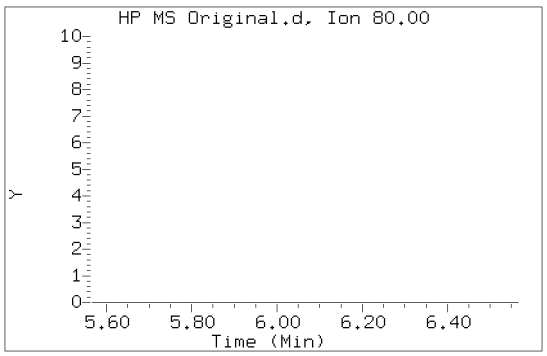
AFTER

MASS
94
AREA
518
HEIGHT
342
23-May-2024
08:54



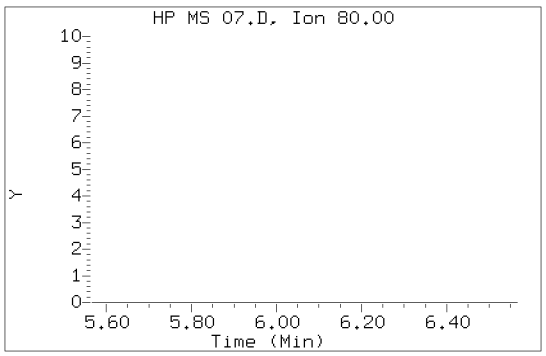
BEFORE

MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
13:57
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
23-May-2024
08:54

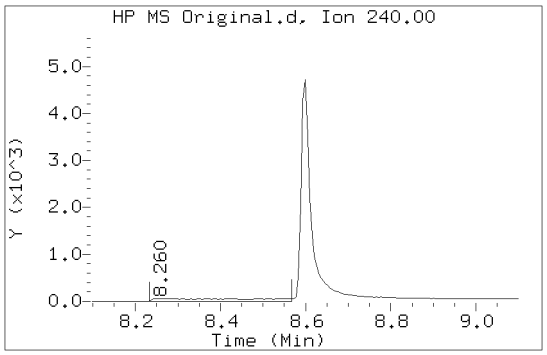


Chrysene-d12 (1719-03-5)

Reason Code:

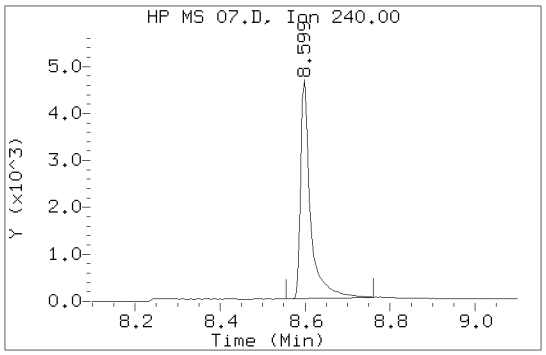
BEFORE

MASS
240
AREA
957
HEIGHT
50
18-Apr-2024
13:57
ALSHS
Server



AFTER

MASS
240
AREA
7453
HEIGHT
4662
23-May-2024
08:54



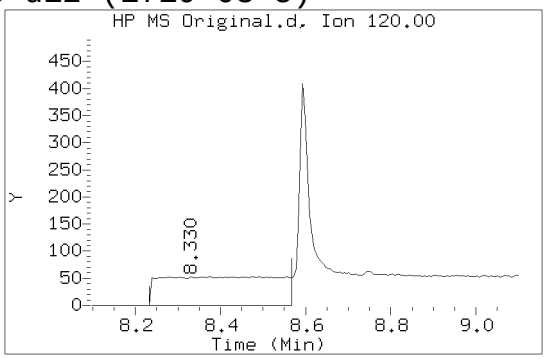
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Inj Date : 18-APR-2024 13:42
InstruID : SV6.i
LabSampID : 14DX-0.10

Chrysene-d12 (1719-03-5)

Reason Code:

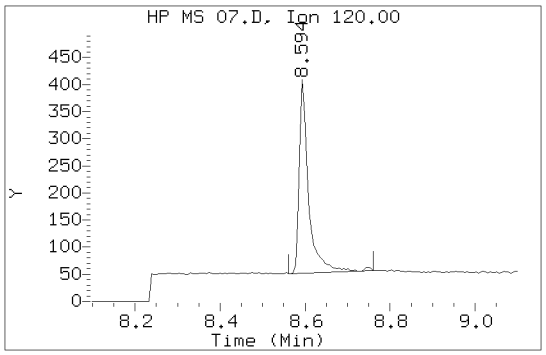
BEFORE

MASS
120
AREA
1029
HEIGHT
53
18-Apr-2024
13:57
ALSHS
Server



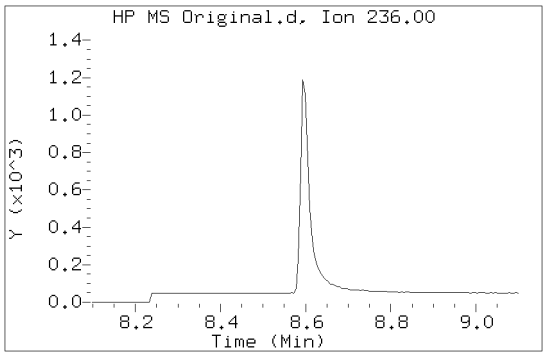
AFTER

MASS
120
AREA
541
HEIGHT
357
23-May-2024
08:54



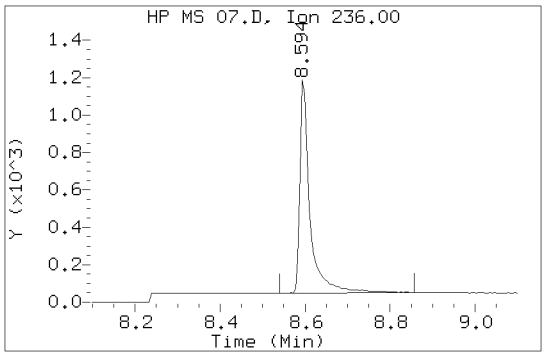
BEFORE

MASS
236
AREA
0
HEIGHT
0
18-Apr-2024
13:57
ALSHS
Server



AFTER

MASS
236
AREA
1875
HEIGHT
1139
23-May-2024
08:54

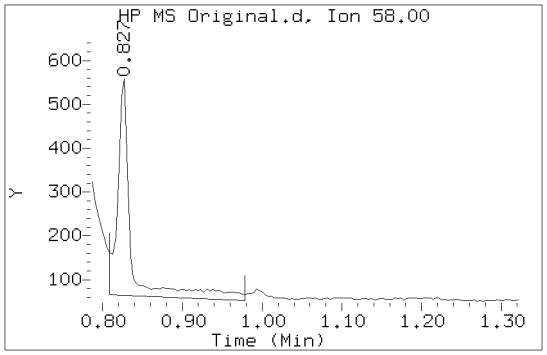


1,4-Dioxane ()

Reason Code:

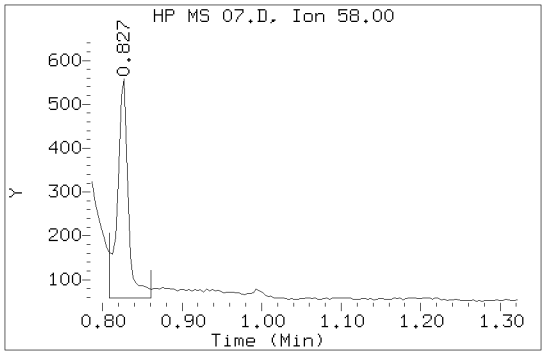
BEFORE

MASS
58
AREA
589
HEIGHT
493
18-Apr-2024
13:57
ALSHS
Server



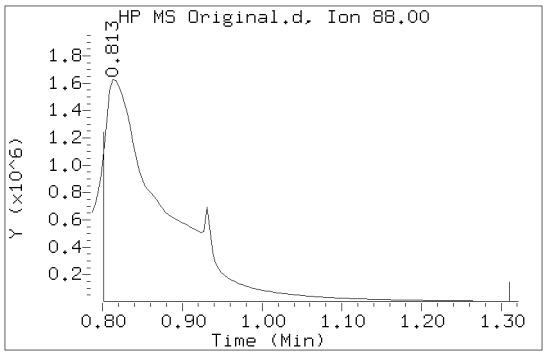
AFTER

MASS
58
AREA
473
HEIGHT
499
23-May-2024
08:54



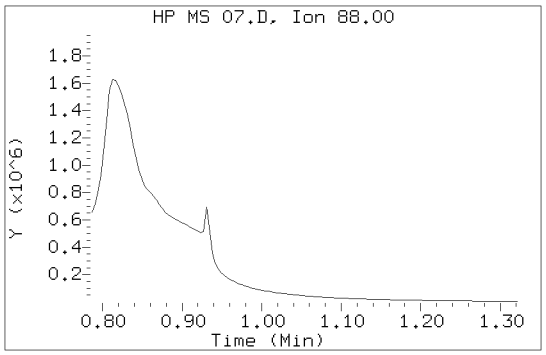
BEFORE

MASS
88
AREA
8266937
HEIGHT
1620371
18-Apr-2024
13:57
ALSHS
Server



AFTER

MASS
88
AREA
8281553
HEIGHT
1620838
23-May-2024
08:54



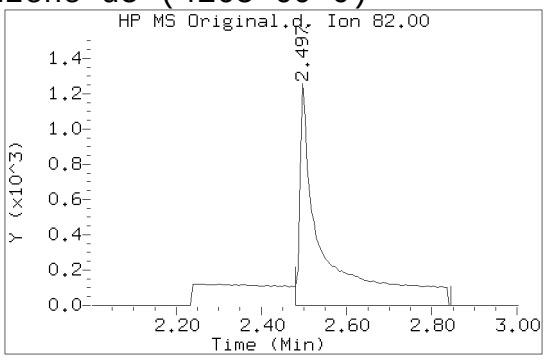
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Inj Date : 18-APR-2024 13:42
InstruID : SV6.i
LabSampID : 14DX-0.10

Nitrobenzene-d5 (4165-60-0)

Reason Code:

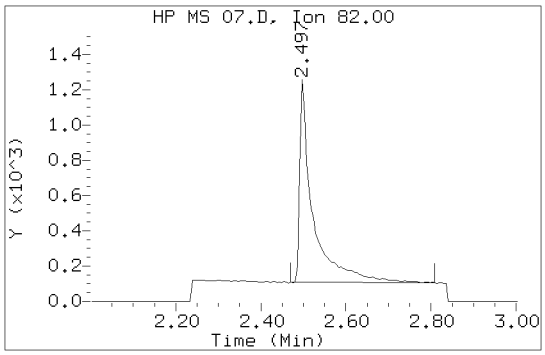
BEFORE

MASS
82
AREA
4733
HEIGHT
1257
18-Apr-2024
13:57
ALSHS
Server



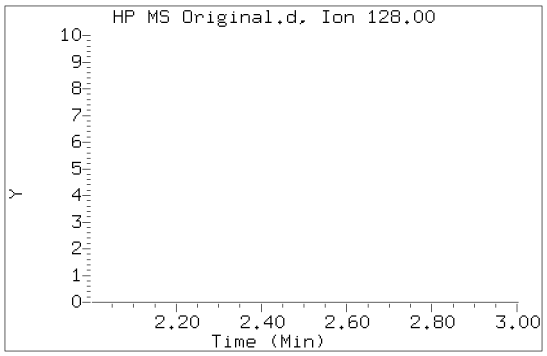
AFTER

MASS
82
AREA
2452
HEIGHT
1148
23-May-2024
08:54



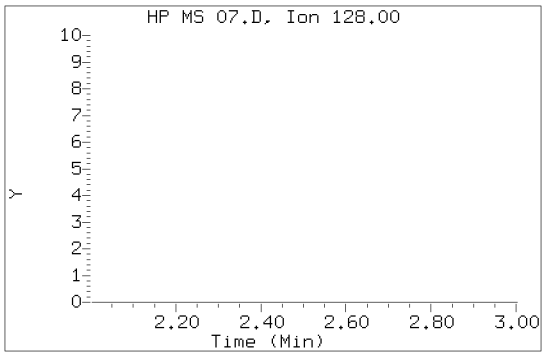
BEFORE

MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
13:57
ALSHS
Server



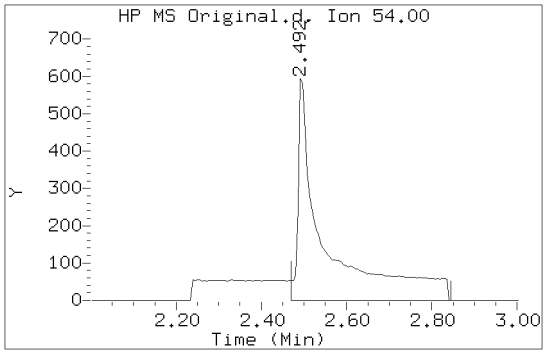
AFTER

MASS
128
AREA
0
HEIGHT
0
23-May-2024
08:54



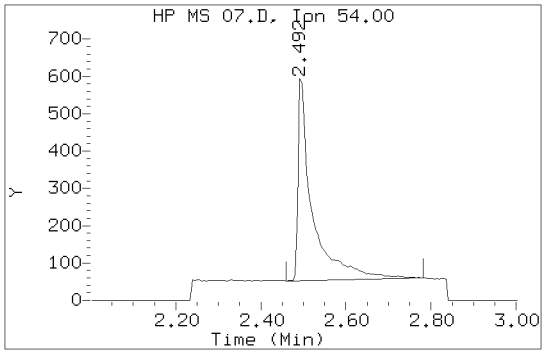
BEFORE

MASS
54
AREA
2506
HEIGHT
594
18-Apr-2024
13:57
ALSHS
Server



AFTER

MASS
54
AREA
1263
HEIGHT
541
23-May-2024
08:54

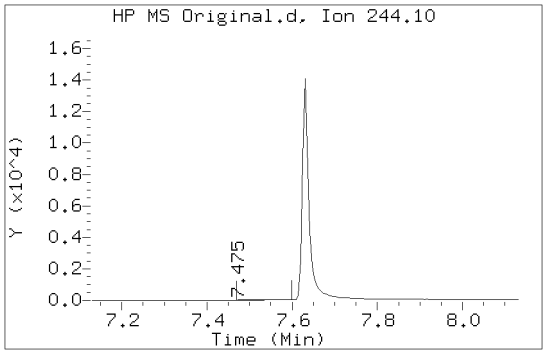


4-Terphenyl-d14 (1718-51-0)

Reason Code:

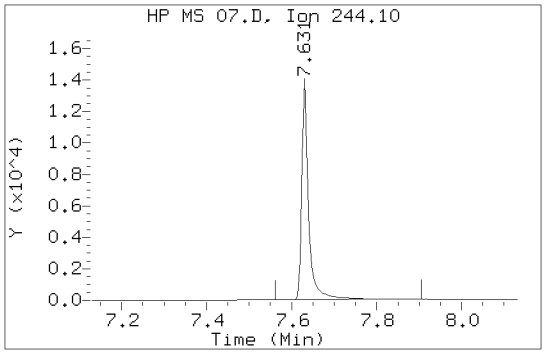
BEFORE

MASS
244.1
AREA
172
HEIGHT
45
18-Apr-2024
13:57
ALSHS
Server



AFTER

MASS
244.1
AREA
15672
HEIGHT
14035
23-May-2024
08:54



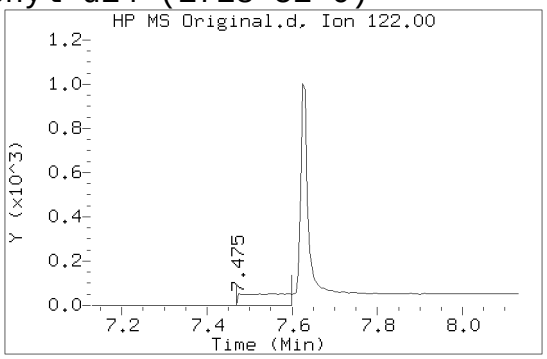
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Inj Date : 18-APR-2024 13:42
InstruID : SV6.i
LabSampID : 14DX-0.10

4-Terphenyl-d14 (1718-51-0)

Reason Code:

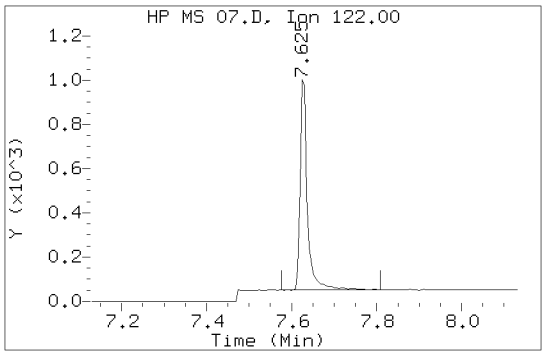
BEFORE

MASS
122
AREA
389
HEIGHT
51
18-Apr-2024
13:57
ALSHS
Server



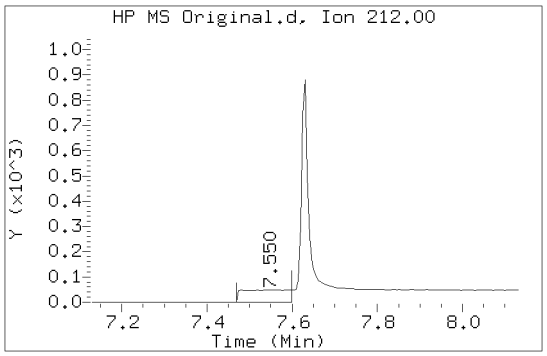
AFTER

MASS
122
AREA
1143
HEIGHT
950
23-May-2024
08:54



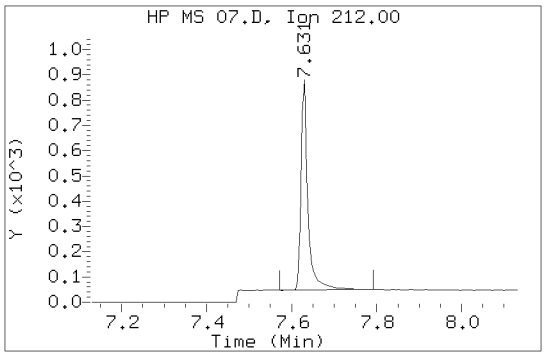
BEFORE

MASS
212
AREA
368
HEIGHT
49
18-Apr-2024
13:57
ALSHS
Server



AFTER

MASS
212
AREA
942
HEIGHT
831
23-May-2024
08:54

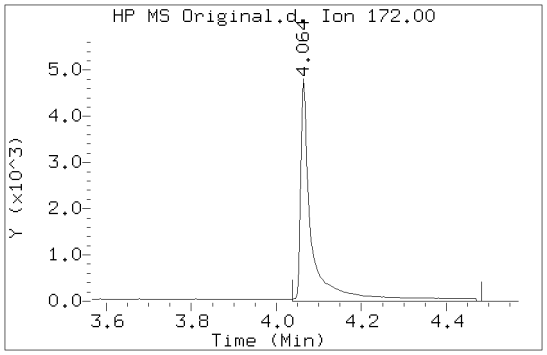


2-Fluorobiphenyl (321-60-8)

Reason Code:

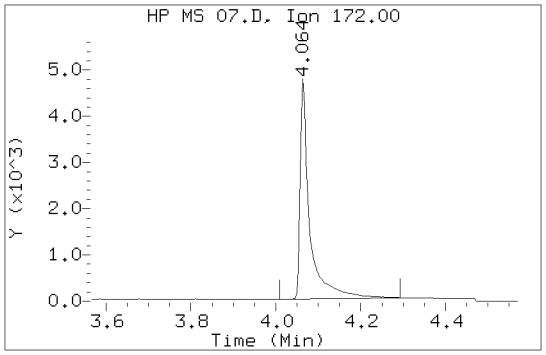
BEFORE

MASS
172
AREA
9042
HEIGHT
4809
18-Apr-2024
13:57
ALSHS
Server



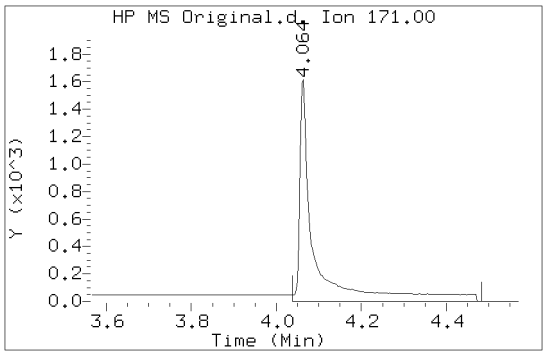
AFTER

MASS
172
AREA
7366
HEIGHT
4757
23-May-2024
08:54



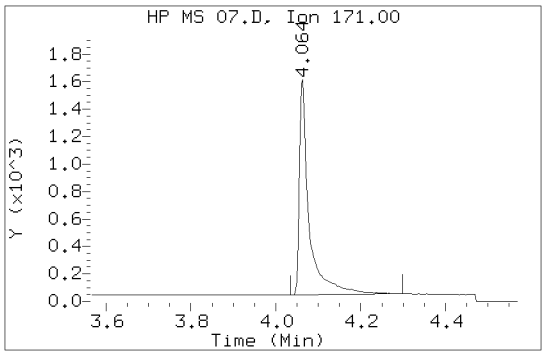
BEFORE

MASS
171
AREA
3879
HEIGHT
1615
18-Apr-2024
13:57
ALSHS
Server



AFTER

MASS
171
AREA
2501
HEIGHT
1566
23-May-2024
08:54



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D Page 1
Report Date: 17-Jul-2024 16:41

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Lab Smp Id: 14DX-0.15
Inj Date : 18-APR-2024 14:00
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.15
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 17-Jul-2024 16:39 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 14:00 Cal File: 08.D
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

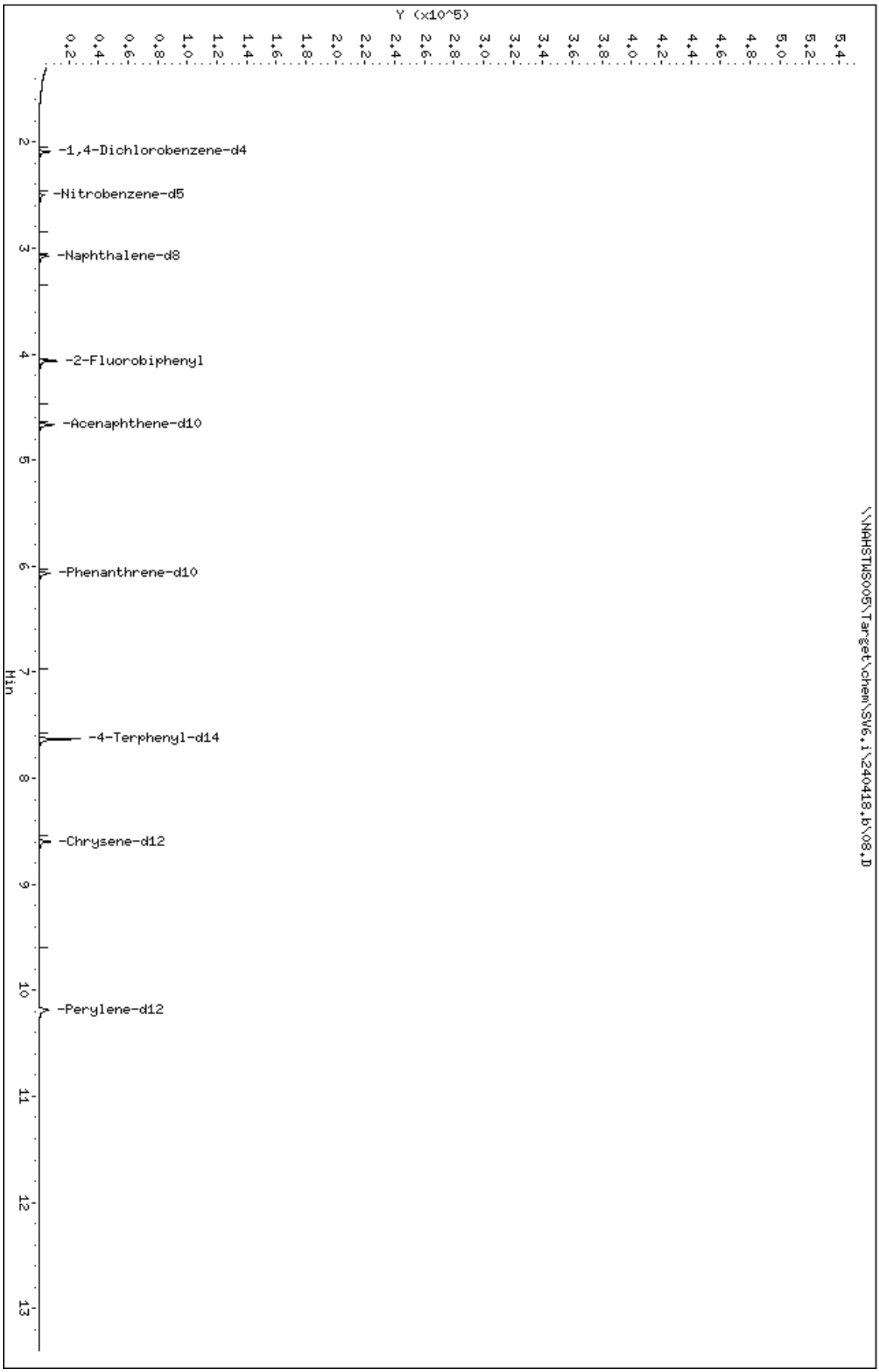
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	2.094	2.089	(1.000)	3084	0.10000	(aM)
* 45 Naphthalene-d8	136	3.076	3.076	(1.000)	9604	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.497	2.502	(0.812)	4499	0.15000	0.1560(AM)
* 86 Acenaphthene-d10	164	4.665	4.671	(1.000)	5448	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.064	4.067	(0.871)	13067	0.15000	0.1569(AM)
* 126 Phenanthrene-d10	188	6.066	6.065	(1.000)	10645	0.10000	(M)
* 182 Chrysene-d12	240	8.599	8.599	(1.000)	8954	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.630	7.630	(0.887)	27519	0.15000	0.1509(AM)
* 198 Perylene-d12	264	10.189	10.189	(1.000)	9228	0.10000	
1 1,4-Dioxane	58	0.842	0.820	(0.402)	984	0.15000	0.1490(QM)

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\SV6.i\240418.b\08.D
Date : 18-APR-2024 14:00
Client ID:
Sample Info: 14DX-0.15
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SV6.i
Operator: LG
Column diameter: 0.28



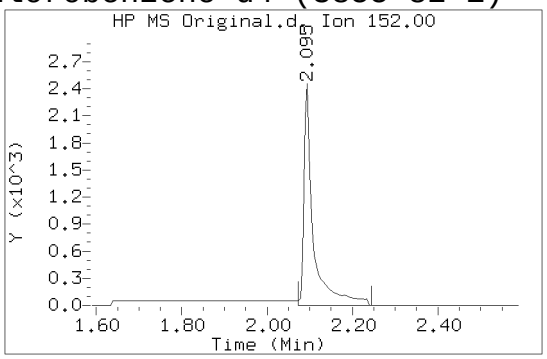
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Inj Date : 18-APR-2024 14:00
InstruID : SV6.i
LabSampID : 14DX-0.15

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

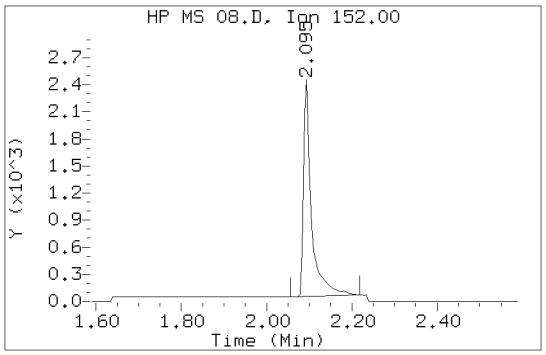
BEFORE

MASS
152
AREA
3705
HEIGHT
2456
18-Apr-2024
14:16
ALSHS
Server



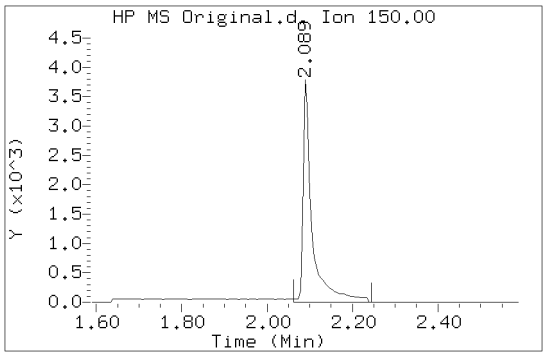
AFTER

MASS
152
AREA
3084
HEIGHT
2400
28-May-2024
13:05



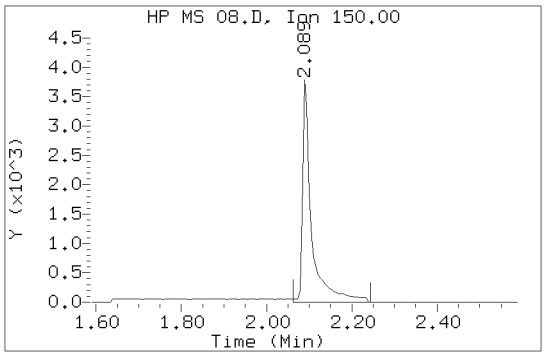
BEFORE

MASS
150
AREA
5535
HEIGHT
3786
18-Apr-2024
14:16
ALSHS
Server



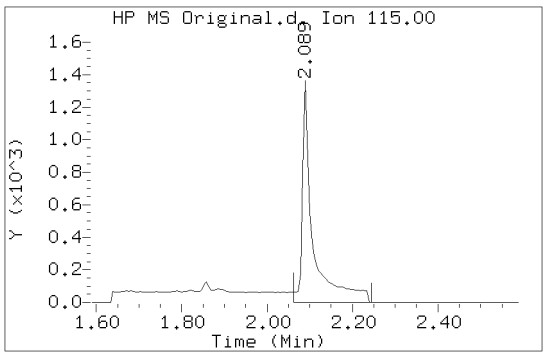
AFTER

MASS
150
AREA
5535
HEIGHT
3786
28-May-2024
13:05



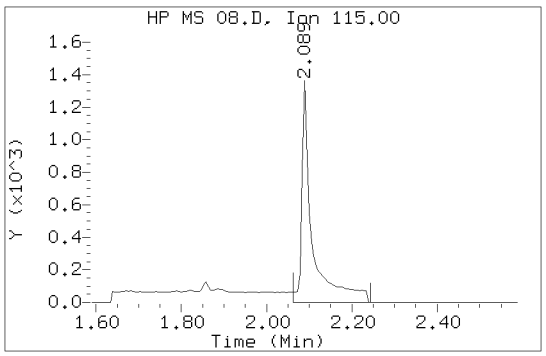
BEFORE

MASS
115
AREA
2326
HEIGHT
1363
18-Apr-2024
14:16
ALSHS
Server



AFTER

MASS
115
AREA
2326
HEIGHT
1363
28-May-2024
13:05

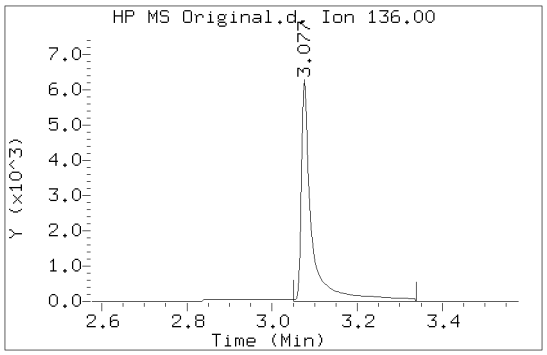


Naphthalene-d8 (1146-65-2)

Reason Code:

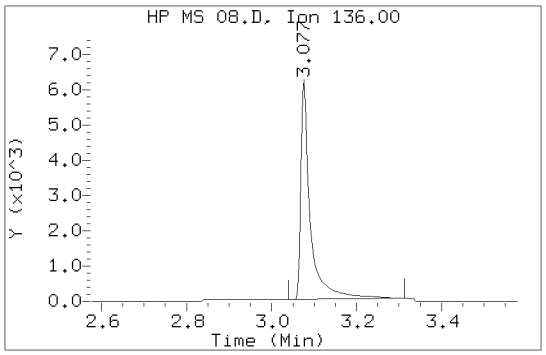
BEFORE

MASS
136
AREA
10787
HEIGHT
6291
18-Apr-2024
14:16
ALSHS
Server



AFTER

MASS
136
AREA
9604
HEIGHT
6235
28-May-2024
13:05



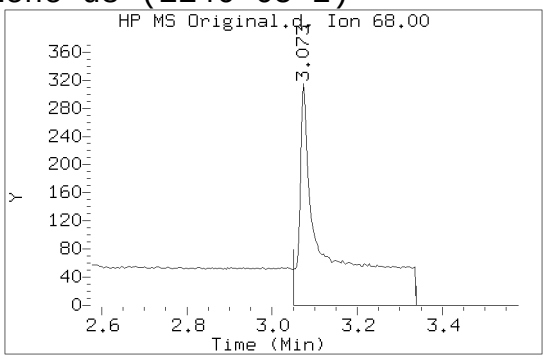
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Inj Date : 18-APR-2024 14:00
InstruID : SV6.i
LabSampID : 14DX-0.15

Naphthalene-d8 (1146-65-2)

Reason Code:

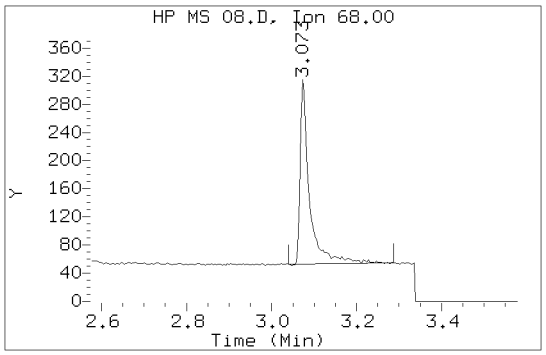
BEFORE

MASS
68
AREA
1324
HEIGHT
315
18-Apr-2024
14:16
ALSHS
Server



AFTER

MASS
68
AREA
389
HEIGHT
261
28-May-2024
13:05

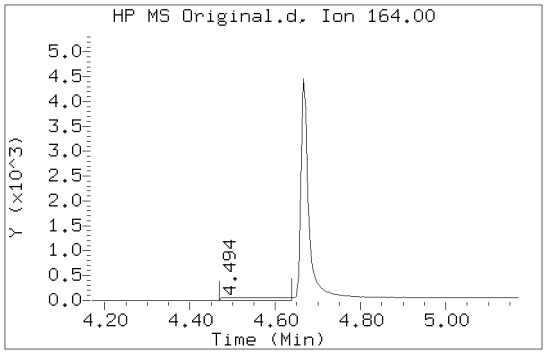


Acenaphthene-d10 (15067-26-2)

Reason Code:

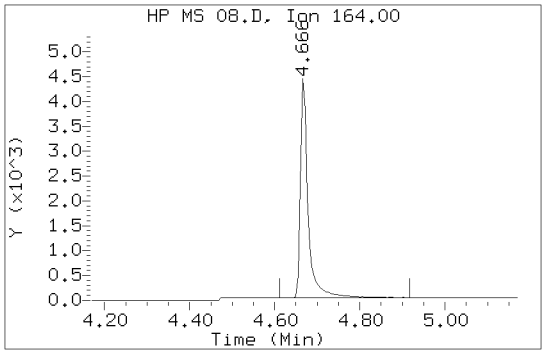
BEFORE

MASS
164
AREA
496
HEIGHT
50
18-Apr-2024
14:16
ALSHS
Server



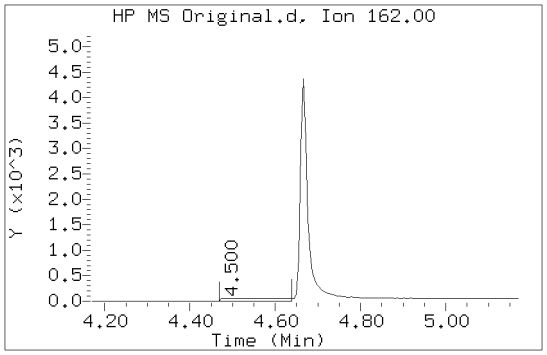
AFTER

MASS
164
AREA
5448
HEIGHT
4411
28-May-2024
13:05



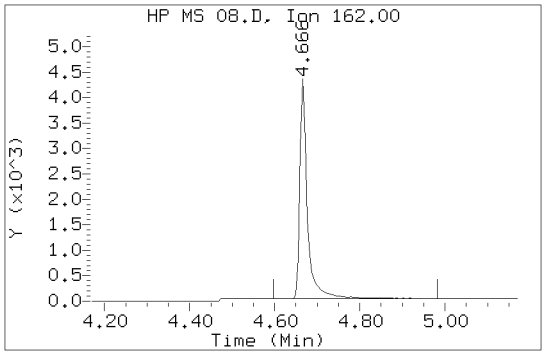
BEFORE

MASS
162
AREA
496
HEIGHT
52
18-Apr-2024
14:16
ALSHS
Server



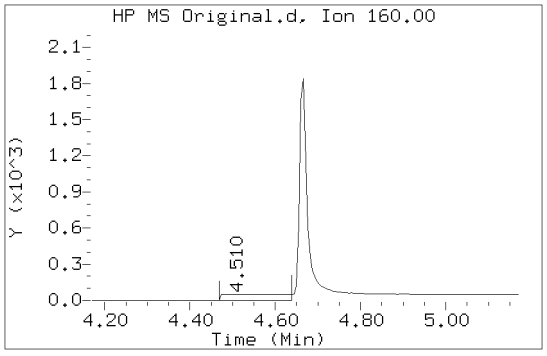
AFTER

MASS
162
AREA
5277
HEIGHT
4319
28-May-2024
13:05



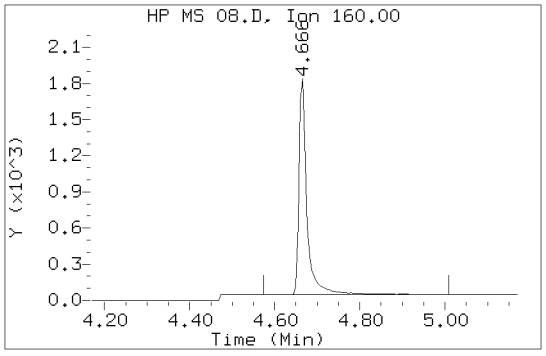
BEFORE

MASS
160
AREA
482
HEIGHT
48
18-Apr-2024
14:16
ALSHS
Server



AFTER

MASS
160
AREA
2305
HEIGHT
1792
28-May-2024
13:05



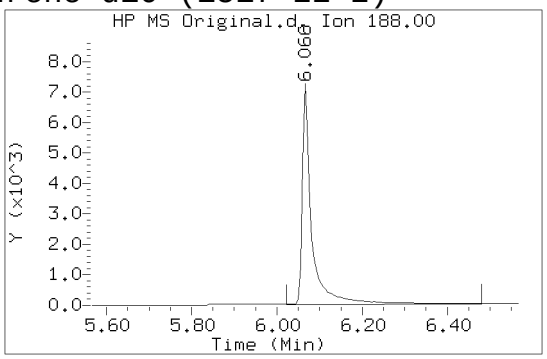
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Inj Date : 18-APR-2024 14:00
InstruID : SV6.i
LabSampID : 14DX-0.15

Phenanthrene-d10 (1517-22-2)

Reason Code:

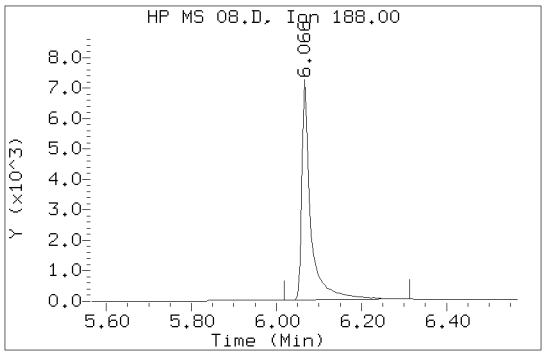
BEFORE

MASS
188
AREA
11494
HEIGHT
7257
18-Apr-2024
14:16
ALSHS
Server



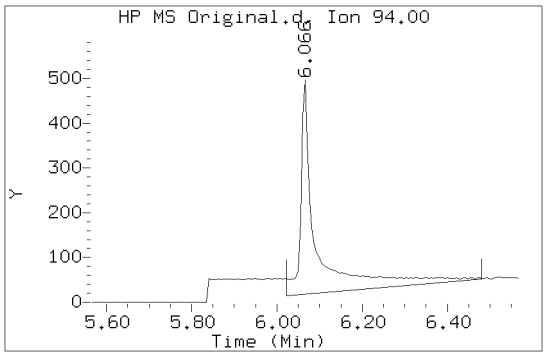
AFTER

MASS
188
AREA
10645
HEIGHT
7224
28-May-2024
13:05



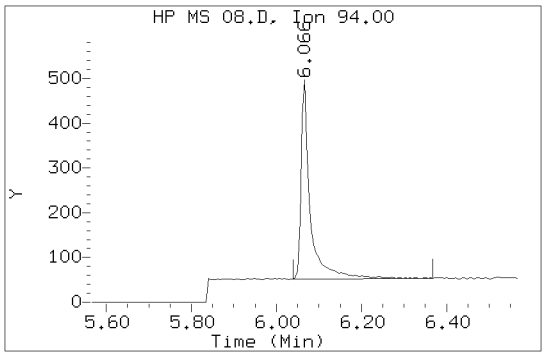
BEFORE

MASS
94
AREA
1207
HEIGHT
478
18-Apr-2024
14:16
ALSHS
Server



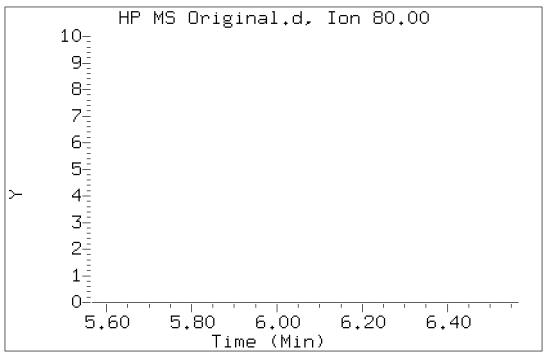
AFTER

MASS
94
AREA
674
HEIGHT
444
28-May-2024
13:05



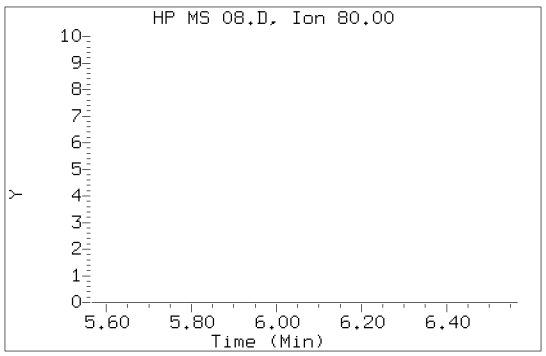
BEFORE

MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
14:16
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
28-May-2024
13:05

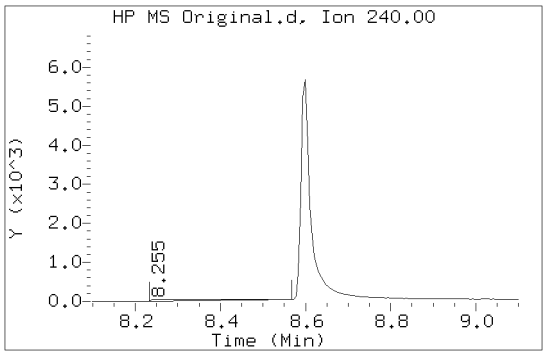


Chrysene-d12 (1719-03-5)

Reason Code:

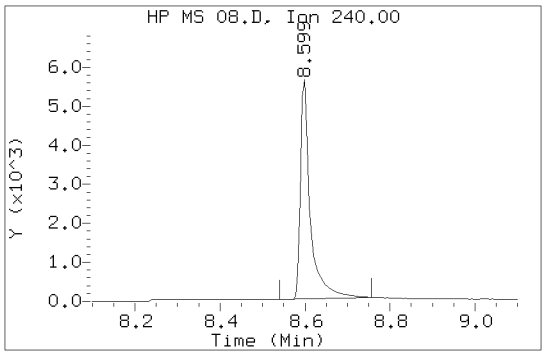
BEFORE

MASS
240
AREA
453
HEIGHT
46
18-Apr-2024
14:16
ALSHS
Server



AFTER

MASS
240
AREA
8954
HEIGHT
5618
28-May-2024
13:05



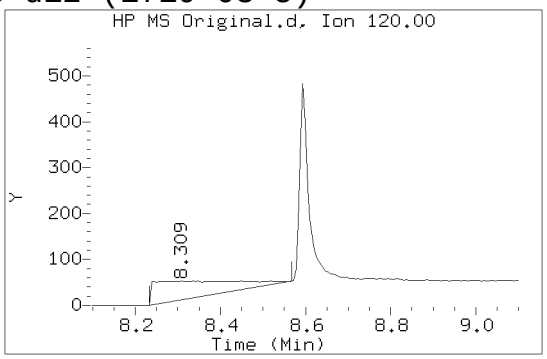
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Inj Date : 18-APR-2024 14:00
InstruID : SV6.i
LabSampID : 14DX-0.15

Chrysene-d12 (1719-03-5)

Reason Code:

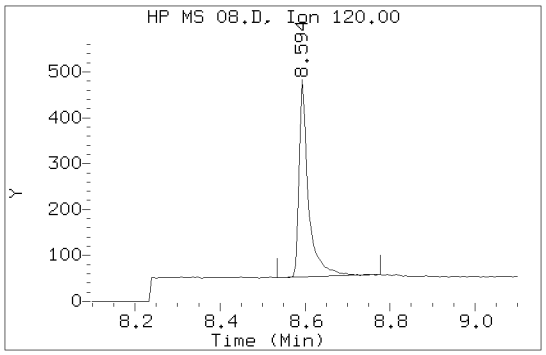
BEFORE

MASS
120
AREA
491
HEIGHT
41
18-Apr-2024
14:16
ALSHS
Server



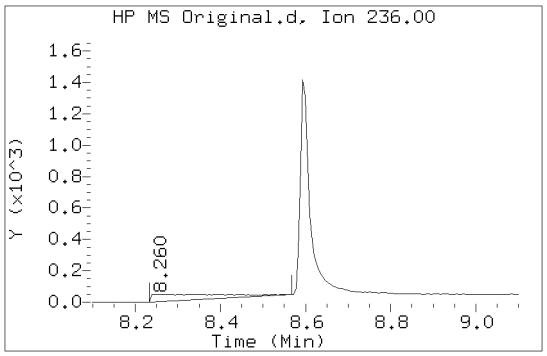
AFTER

MASS
120
AREA
640
HEIGHT
429
28-May-2024
13:05



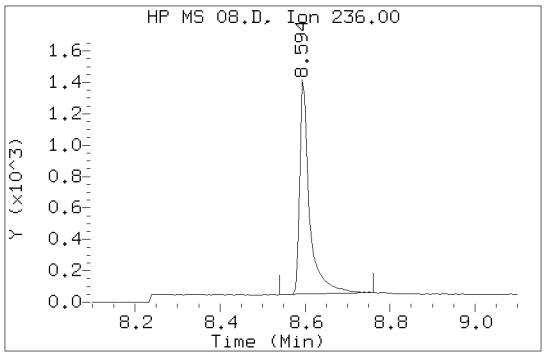
BEFORE

MASS
236
AREA
459
HEIGHT
45
18-Apr-2024
14:16
ALSHS
Server



AFTER

MASS
236
AREA
2175
HEIGHT
1364
28-May-2024
13:05

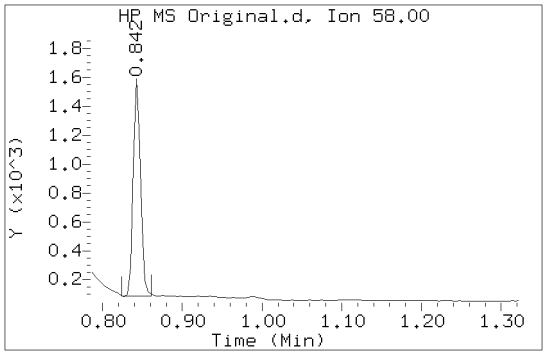


1,4-Dioxane ()

Reason Code:

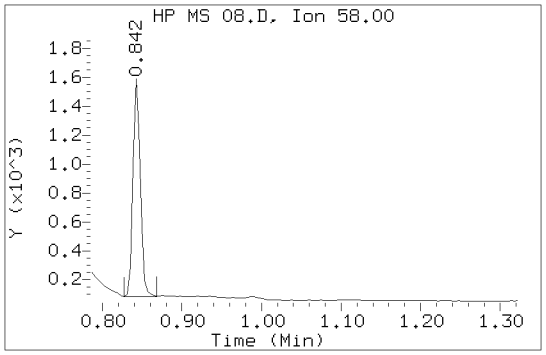
BEFORE

MASS
58
AREA
972
HEIGHT
1502
18-Apr-2024
14:16
ALSHS
Server



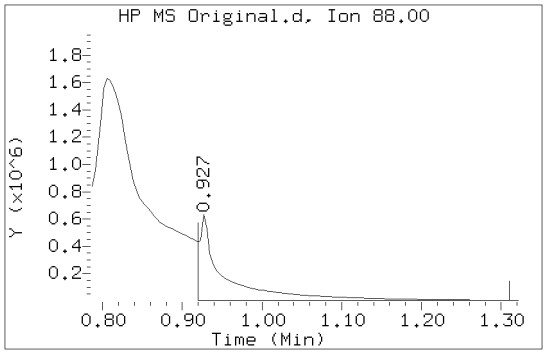
AFTER

MASS
58
AREA
984
HEIGHT
1506
28-May-2024
13:05



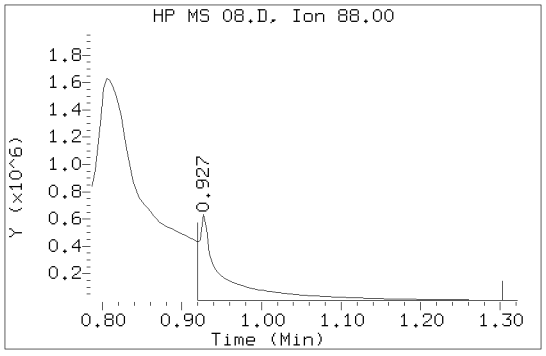
BEFORE

MASS
88
AREA
1391687
HEIGHT
630804
18-Apr-2024
14:16
ALSHS
Server



AFTER

MASS
88
AREA
1385982
HEIGHT
630559
28-May-2024
13:05



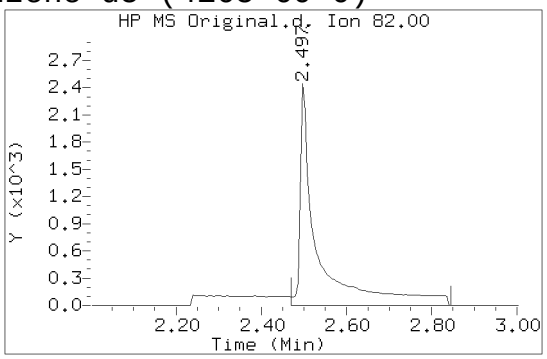
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Inj Date : 18-APR-2024 14:00
InstruID : SV6.i
LabSampID : 14DX-0.15

Nitrobenzene-d5 (4165-60-0)

Reason Code:

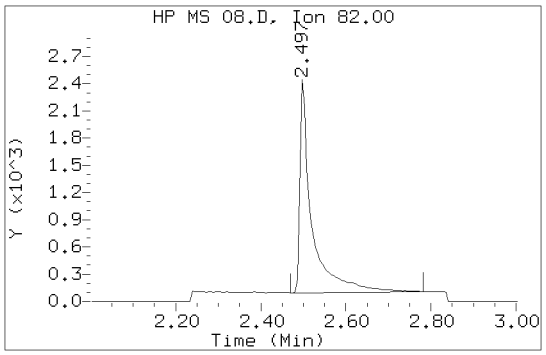
BEFORE

MASS
82
AREA
6726
HEIGHT
2444
18-Apr-2024
14:16
ALSHS
Server



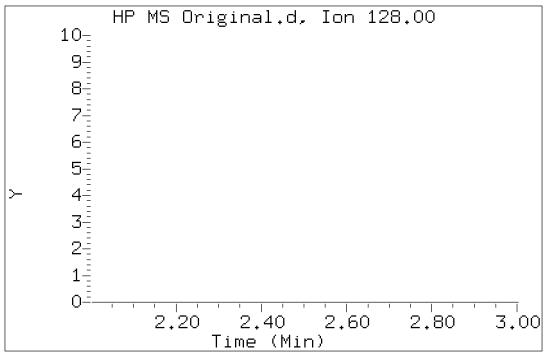
AFTER

MASS
82
AREA
4499
HEIGHT
2348
28-May-2024
13:05



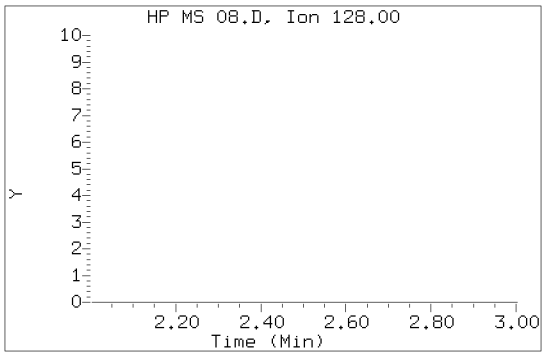
BEFORE

MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
14:16
ALSHS
Server



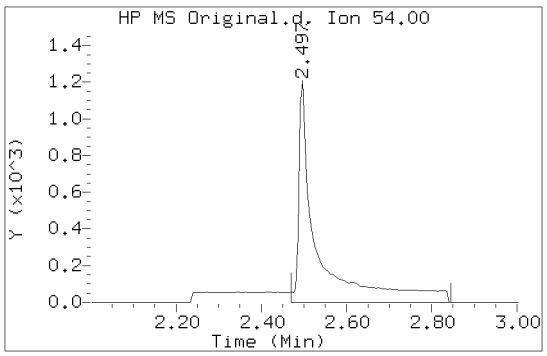
AFTER

MASS
128
AREA
0
HEIGHT
0
28-May-2024
13:05



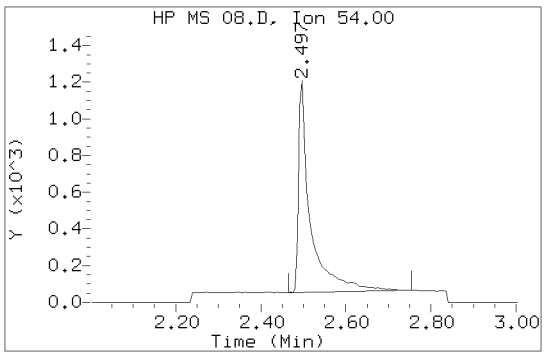
BEFORE

MASS
54
AREA
3552
HEIGHT
1208
18-Apr-2024
14:16
ALSHS
Server



AFTER

MASS
54
AREA
2217
HEIGHT
1153
28-May-2024
13:05

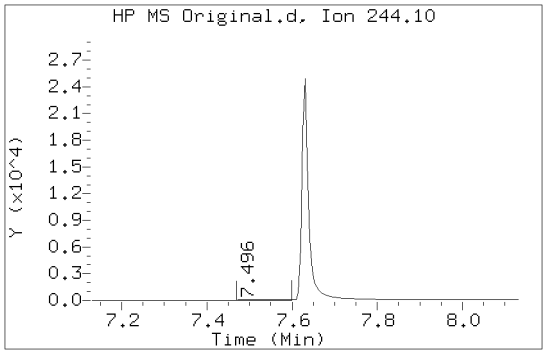


4-Terphenyl-d14 (1718-51-0)

Reason Code:

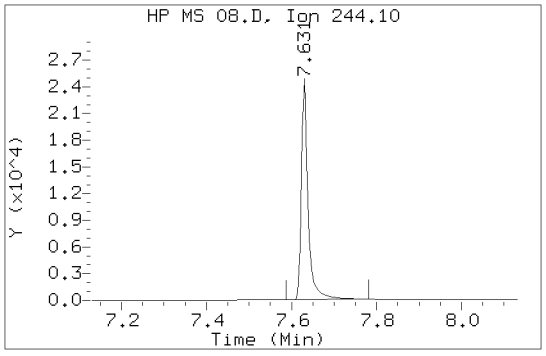
BEFORE

MASS
244.1
AREA
363
HEIGHT
48
18-Apr-2024
14:16
ALSHS
Server



AFTER

MASS
244.1
AREA
27519
HEIGHT
24848
28-May-2024
13:05



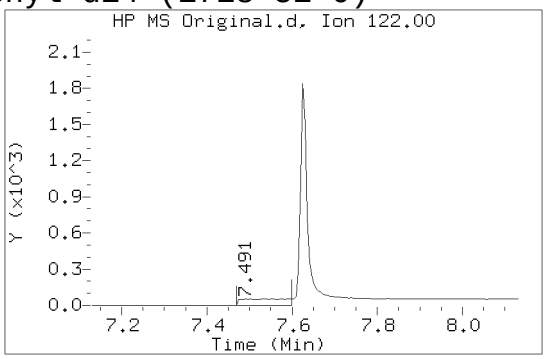
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Inj Date : 18-APR-2024 14:00
InstruID : SV6.i
LabSampID : 14DX-0.15

4-Terphenyl-d14 (1718-51-0)

Reason Code:

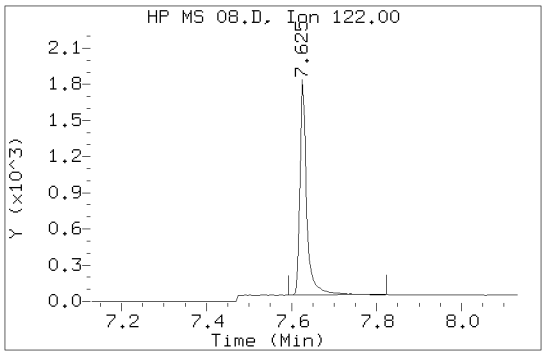
BEFORE

MASS
122
AREA
391
HEIGHT
52
18-Apr-2024
14:16
ALSHS
Server



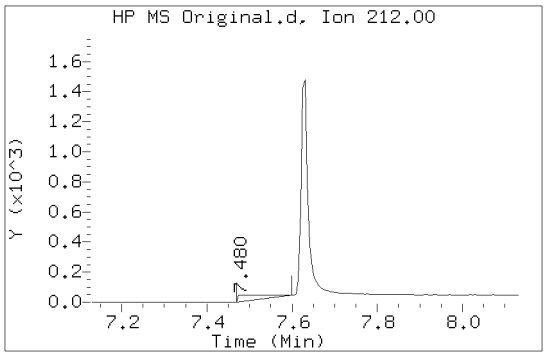
AFTER

MASS
122
AREA
2002
HEIGHT
1786
28-May-2024
13:05



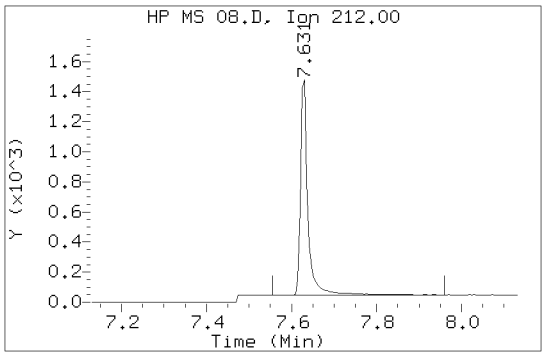
BEFORE

MASS
212
AREA
175
HEIGHT
44
18-Apr-2024
14:16
ALSHS
Server



AFTER

MASS
212
AREA
1733
HEIGHT
1429
28-May-2024
13:05

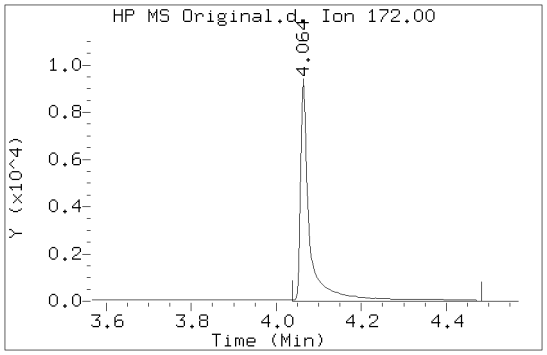


2-Fluorobiphenyl (321-60-8)

Reason Code:

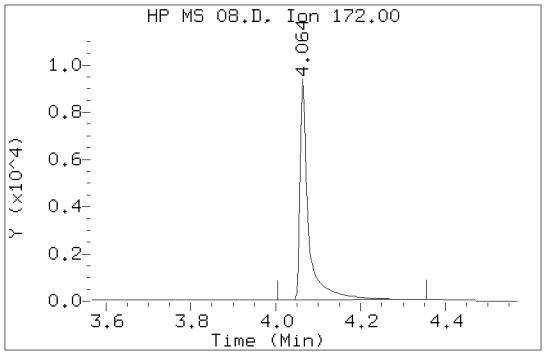
BEFORE

MASS
172
AREA
14843
HEIGHT
9413
18-Apr-2024
14:16
ALSHS
Server



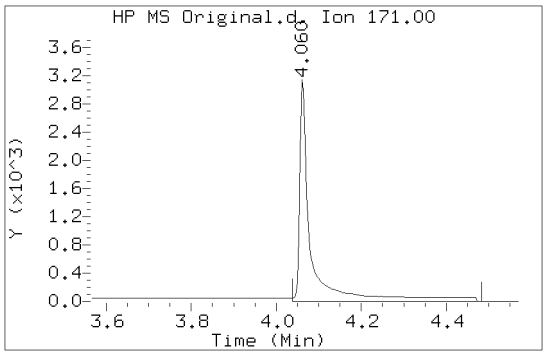
AFTER

MASS
172
AREA
13067
HEIGHT
9360
28-May-2024
13:05



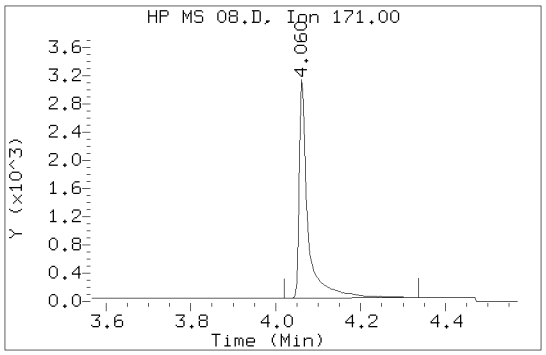
BEFORE

MASS
171
AREA
5828
HEIGHT
3145
18-Apr-2024
14:16
ALSHS
Server



AFTER

MASS
171
AREA
4411
HEIGHT
3096
28-May-2024
13:05



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Lab Smp Id: 14DX-0.20
Inj Date : 18-APR-2024 14:18
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.20
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 17-Jul-2024 16:39 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 14:18 Cal File: 09.D
Als bottle: 9 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	2.094	2.089	(1.000)	2896	0.10000	(aM)
* 45 Naphthalene-d8	136	3.076	3.076	(1.000)	9147	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.496	2.502	(0.812)	5927	0.20000	0.2158(AM)
* 86 Acenaphthene-d10	164	4.665	4.671	(1.000)	5593	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.064	4.067	(0.871)	17331	0.20000	0.2027(AM)
* 126 Phenanthrene-d10	188	6.065	6.065	(1.000)	10775	0.10000	(M)
* 182 Chrysene-d12	240	8.593	8.599	(1.000)	9063	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.630	7.630	(0.888)	39718	0.20000	0.2151(AM)
* 198 Perylene-d12	264	10.184	10.189	(1.000)	8962	0.10000	(M)
1 1,4-Dioxane	58	0.845	0.820	(0.404)	1268	0.20000	0.2044(QM)

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\SV6.i\240418.b\09.D

Date : 18-APR-2024 14:18

Client ID:

Instrument: SV6.i

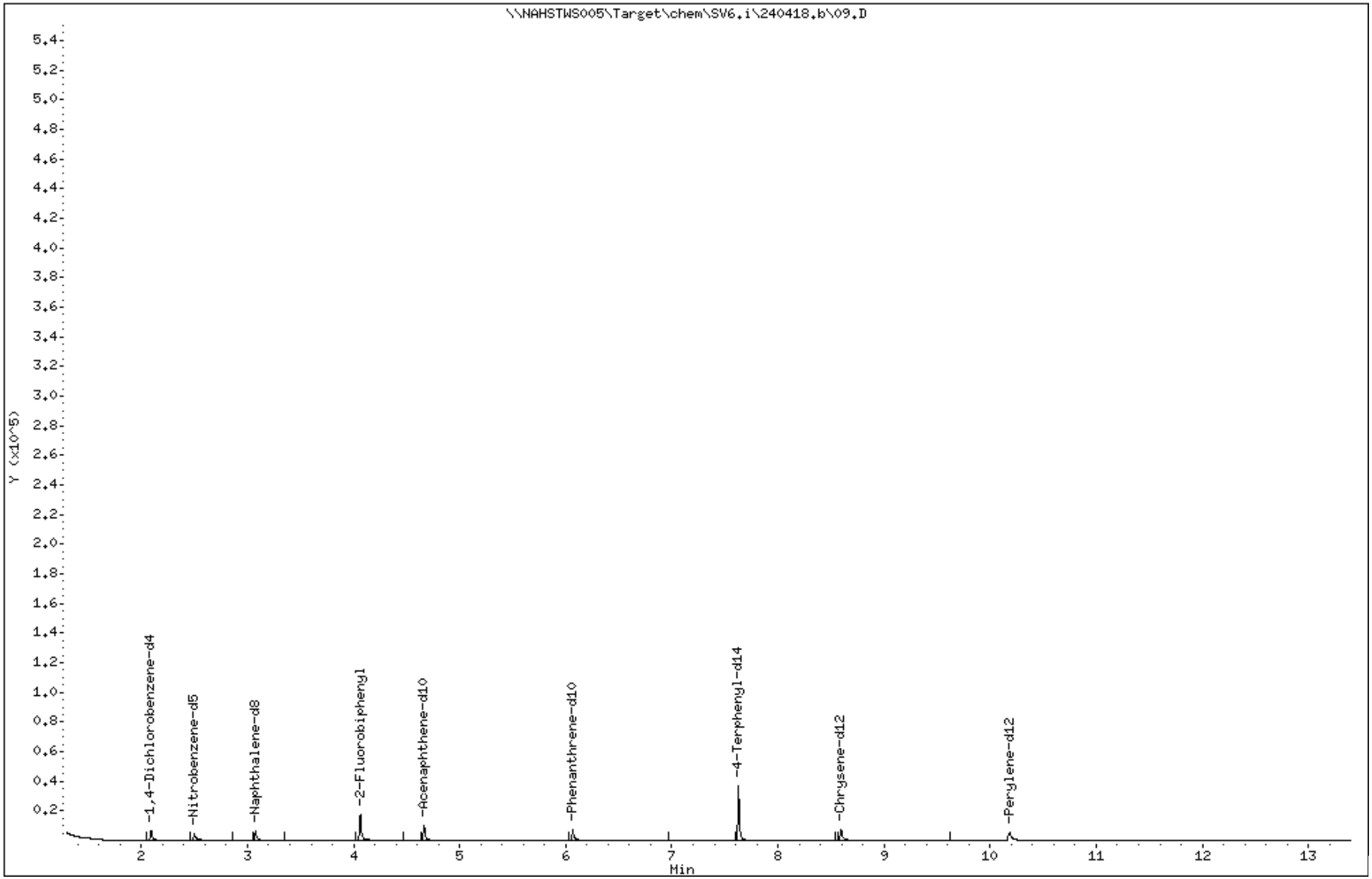
Sample Info: 14DX-0.20

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



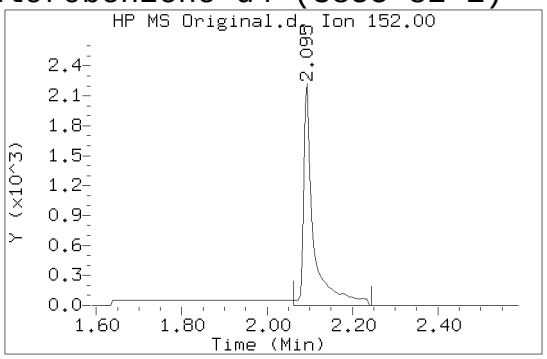
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Inj Date : 18-APR-2024 14:18
InstruID : SV6.i
LabSampID : 14DX-0.20

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

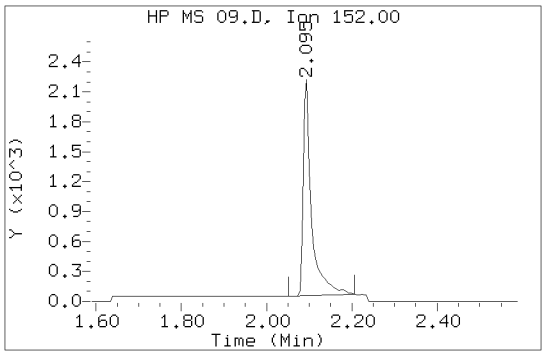
BEFORE

MASS
152
AREA
3565
HEIGHT
2222
18-Apr-2024
14:31
ALSHS
Server



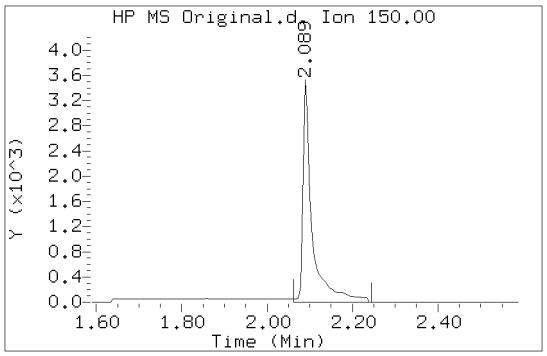
AFTER

MASS
152
AREA
2896
HEIGHT
2165
23-May-2024
08:54



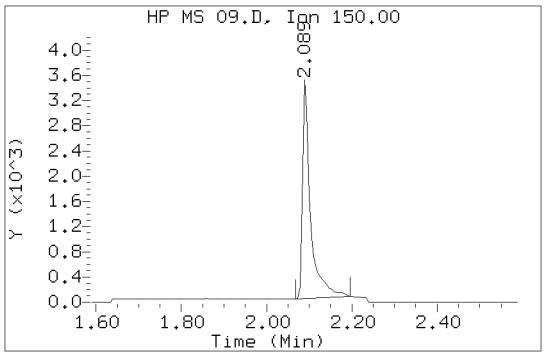
BEFORE

MASS
150
AREA
5268
HEIGHT
3527
18-Apr-2024
14:31
ALSHS
Server



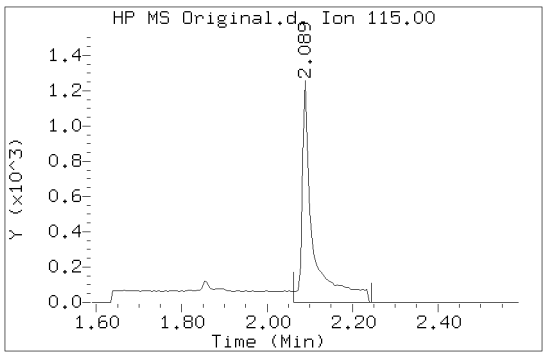
AFTER

MASS
150
AREA
4498
HEIGHT
3469
23-May-2024
08:54



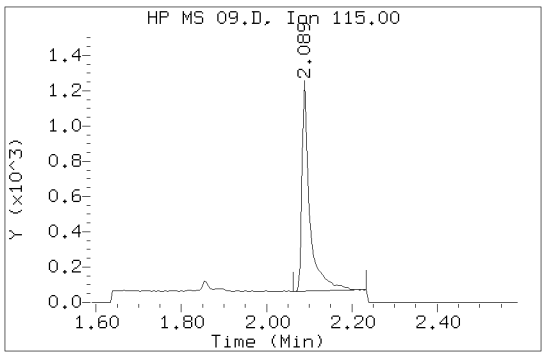
BEFORE

MASS
115
AREA
2227
HEIGHT
1257
18-Apr-2024
14:31
ALSHS
Server



AFTER

MASS
115
AREA
1525
HEIGHT
1194
23-May-2024
08:54

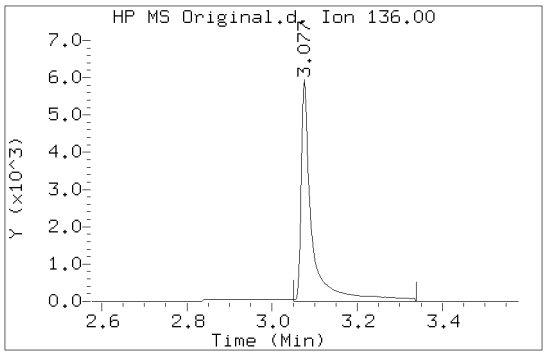


Naphthalene-d8 (1146-65-2)

Reason Code:

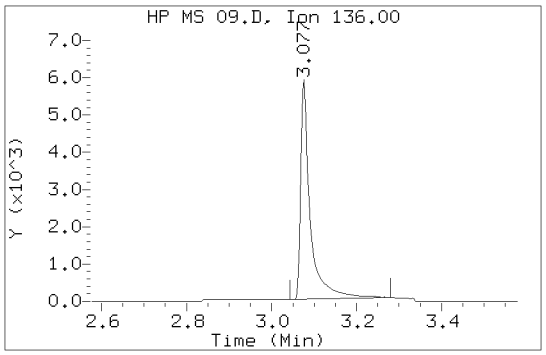
BEFORE

MASS
136
AREA
10466
HEIGHT
5947
18-Apr-2024
14:31
ALSHS
Server



AFTER

MASS
136
AREA
9147
HEIGHT
5889
23-May-2024
08:54



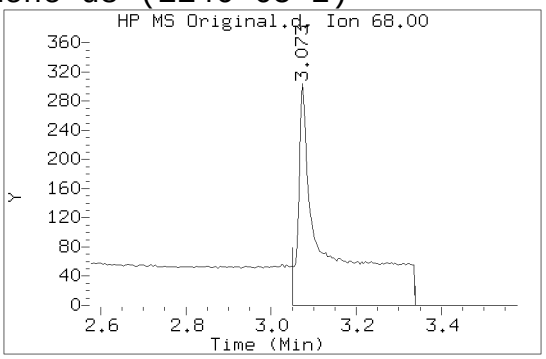
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Inj Date : 18-APR-2024 14:18
InstruID : SV6.i
LabSampID : 14DX-0.20

Naphthalene-d8 (1146-65-2)

Reason Code:

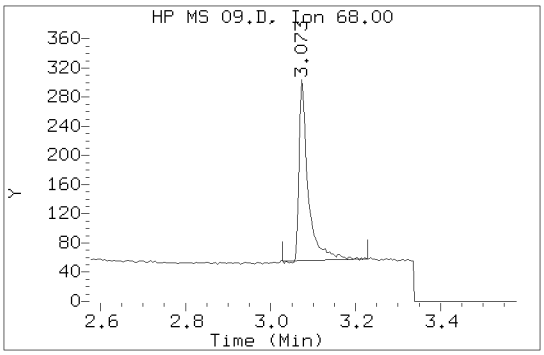
BEFORE

MASS
68
AREA
1344
HEIGHT
304
18-Apr-2024
14:31
ALSHS
Server



AFTER

MASS
68
AREA
362
HEIGHT
248
23-May-2024
08:54

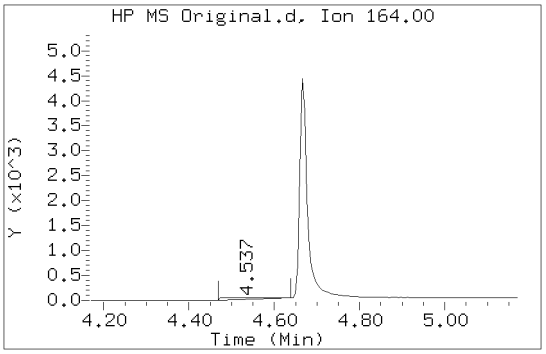


Acenaphthene-d10 (15067-26-2)

Reason Code:

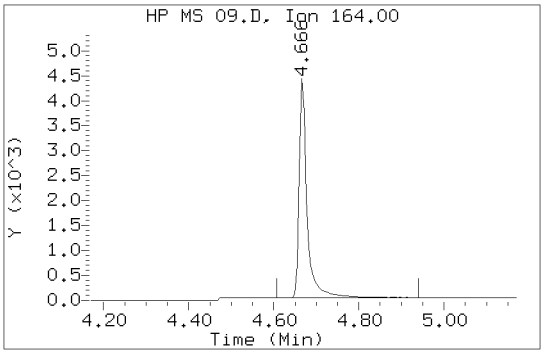
BEFORE

MASS
164
AREA
238
HEIGHT
29
18-Apr-2024
14:31
ALSHS
Server



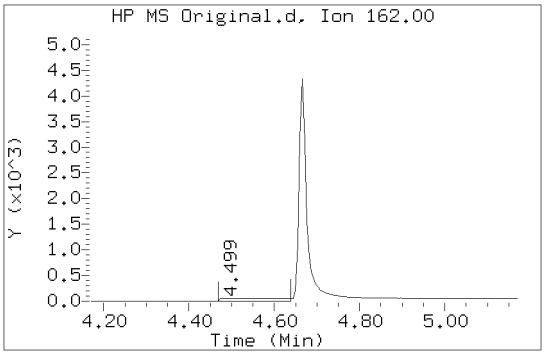
AFTER

MASS
164
AREA
5593
HEIGHT
4390
23-May-2024
08:54



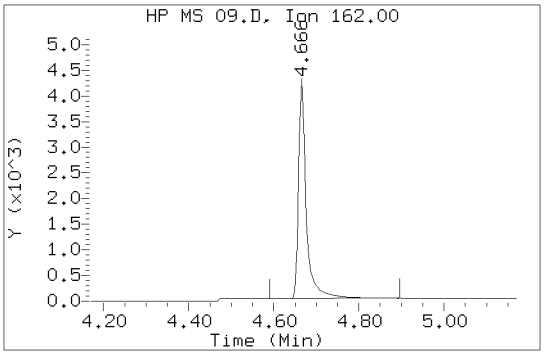
BEFORE

MASS
162
AREA
503
HEIGHT
51
18-Apr-2024
14:31
ALSHS
Server



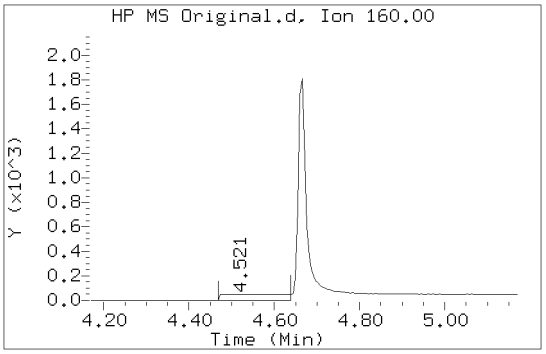
AFTER

MASS
162
AREA
5314
HEIGHT
4281
23-May-2024
08:54



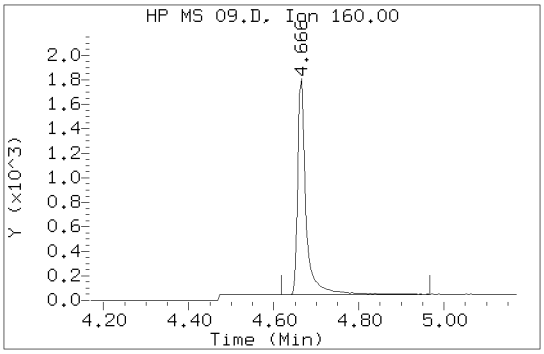
BEFORE

MASS
160
AREA
485
HEIGHT
49
18-Apr-2024
14:31
ALSHS
Server



AFTER

MASS
160
AREA
2365
HEIGHT
1761
23-May-2024
08:54



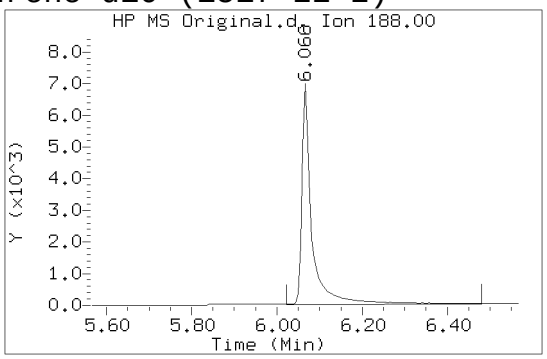
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Inj Date : 18-APR-2024 14:18
InstruID : SV6.i
LabSampID : 14DX-0.20

Phenanthrene-d10 (1517-22-2)

Reason Code:

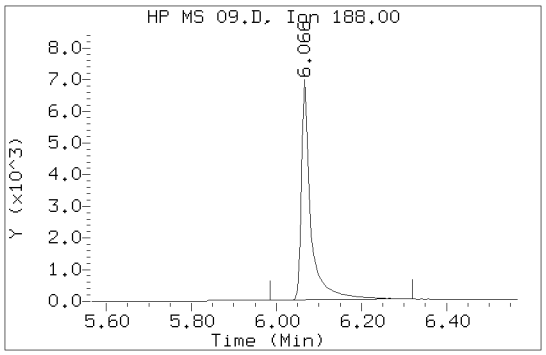
BEFORE

MASS
188
AREA
11617
HEIGHT
6980
18-Apr-2024
14:31
ALSHS
Server



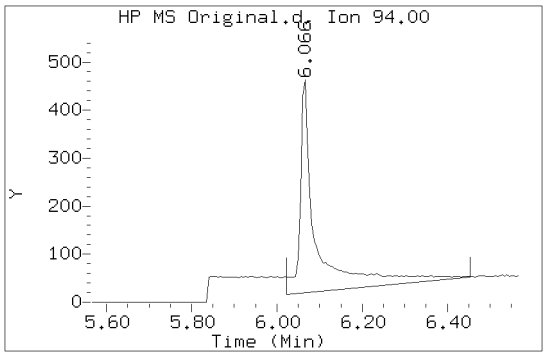
AFTER

MASS
188
AREA
10775
HEIGHT
6945
23-May-2024
08:54



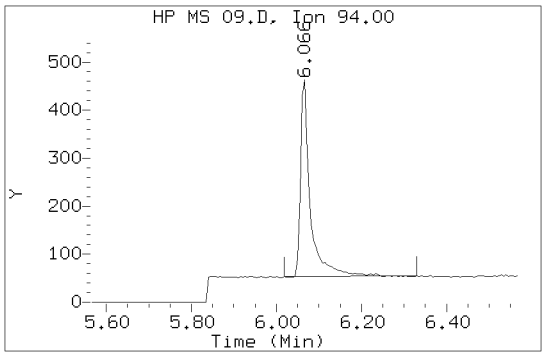
BEFORE

MASS
94
AREA
1175
HEIGHT
443
18-Apr-2024
14:31
ALSHS
Server



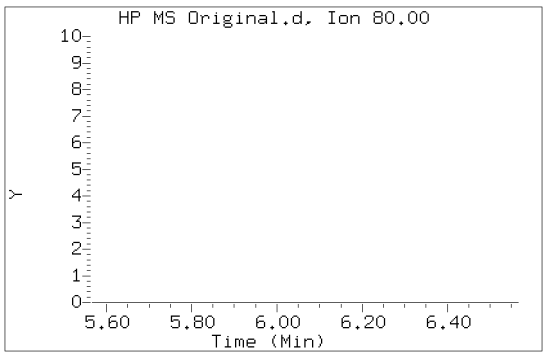
AFTER

MASS
94
AREA
655
HEIGHT
409
23-May-2024
08:54



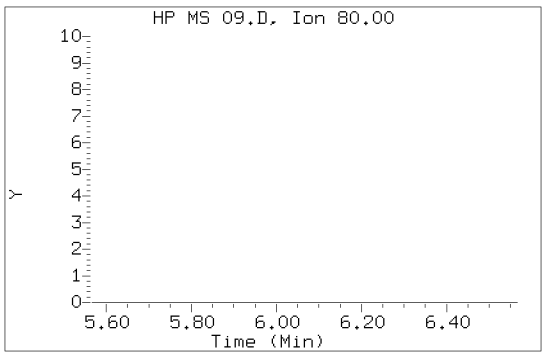
BEFORE

MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
14:31
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
23-May-2024
08:54

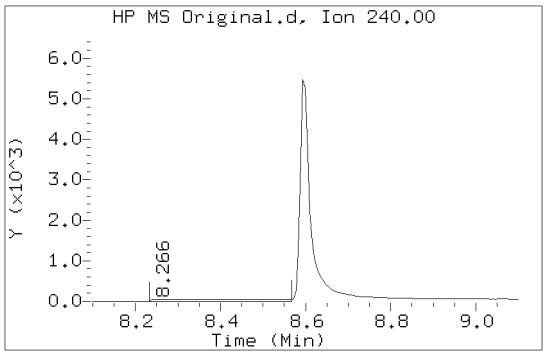


Chrysene-d12 (1719-03-5)

Reason Code:

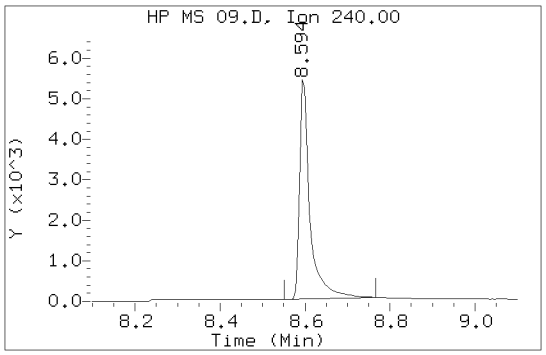
BEFORE

MASS
240
AREA
966
HEIGHT
50
18-Apr-2024
14:31
ALSHS
Server



AFTER

MASS
240
AREA
9063
HEIGHT
5411
23-May-2024
08:54



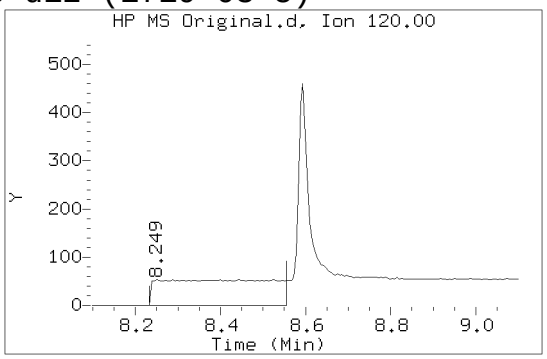
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Inj Date : 18-APR-2024 14:18
InstruID : SV6.i
LabSampID : 14DX-0.20

Chrysene-d12 (1719-03-5)

Reason Code:

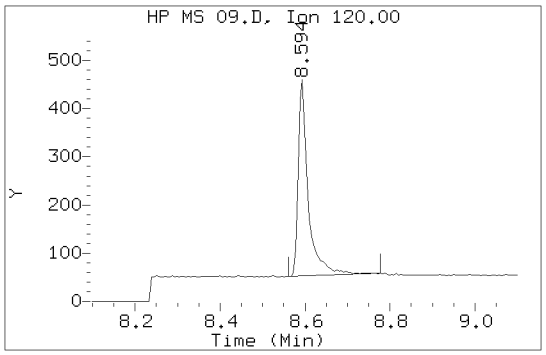
BEFORE

MASS
120
AREA
1000
HEIGHT
53
18-Apr-2024
14:31
ALSHS
Server



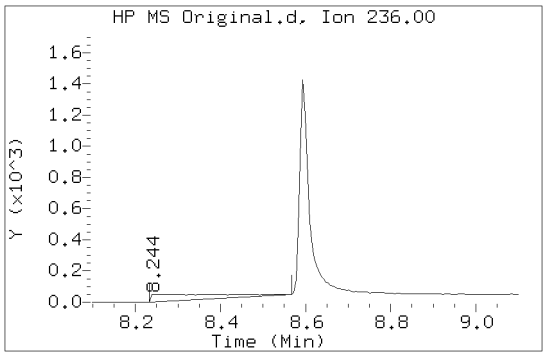
AFTER

MASS
120
AREA
651
HEIGHT
406
23-May-2024
08:54



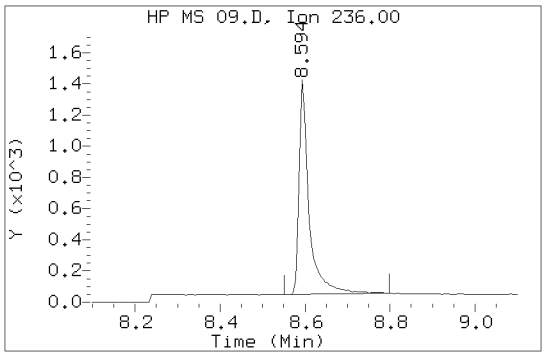
BEFORE

MASS
236
AREA
466
HEIGHT
47
18-Apr-2024
14:31
ALSHS
Server



AFTER

MASS
236
AREA
2242
HEIGHT
1376
23-May-2024
08:54

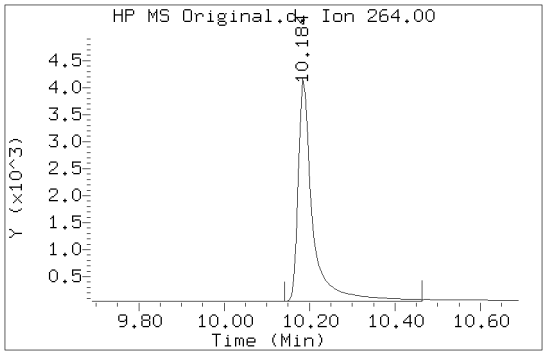


Perylene-d12 (1520-96-3)

Reason Code:

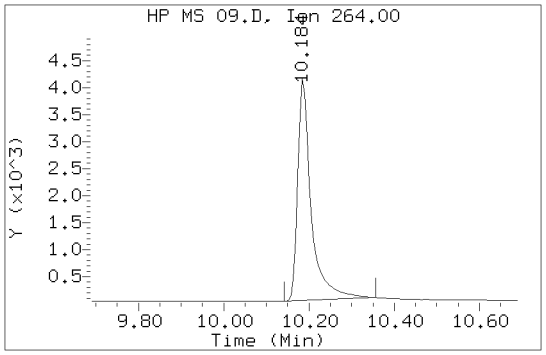
BEFORE

MASS
264
AREA
9658
HEIGHT
4112
18-Apr-2024
14:31
ALSHS
Server



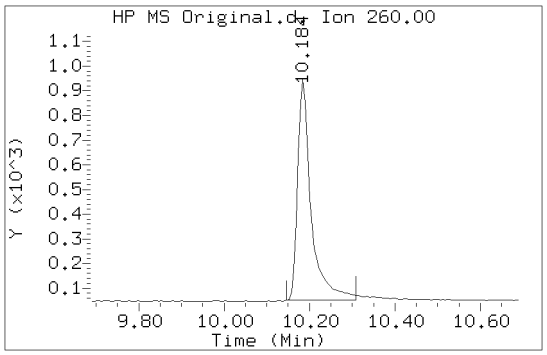
AFTER

MASS
264
AREA
8962
HEIGHT
4099
23-May-2024
08:54



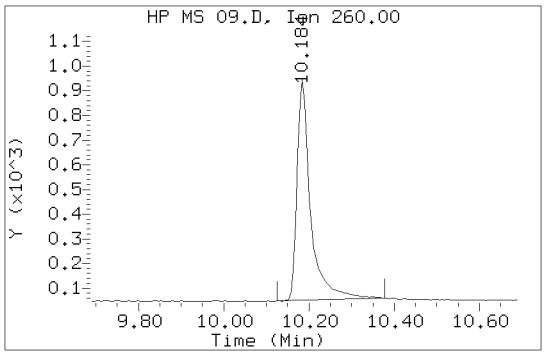
BEFORE

MASS
260
AREA
1972
HEIGHT
894
18-Apr-2024
14:31
ALSHS
Server



AFTER

MASS
260
AREA
1963
HEIGHT
893
23-May-2024
08:54



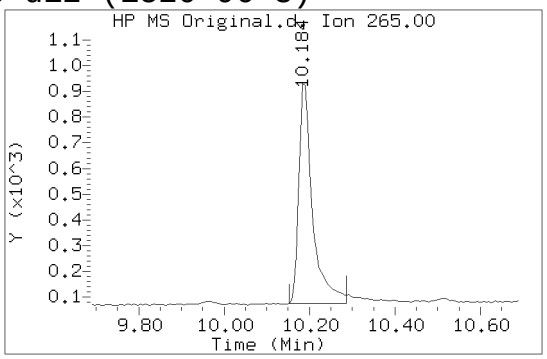
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Inj Date : 18-APR-2024 14:18
InstruID : SV6.i
LabSampID : 14DX-0.20

Perylene-d12 (1520-96-3)

Reason Code:

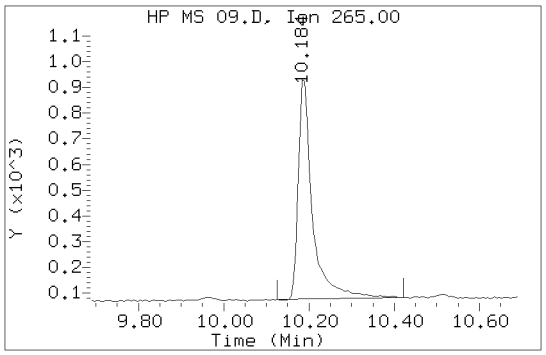
BEFORE

MASS
265
AREA
1909
HEIGHT
854
18-Apr-2024
14:31
ALSHS
Server



AFTER

MASS
265
AREA
1984
HEIGHT
853
23-May-2024
08:54

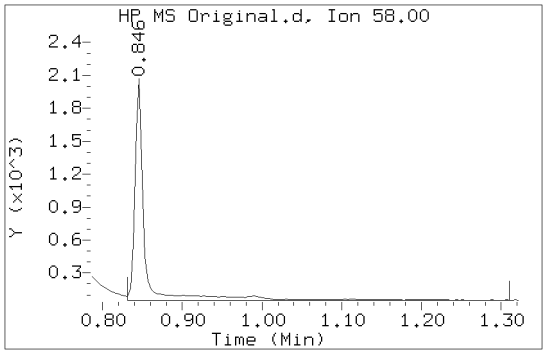


1,4-Dioxane ()

Reason Code:

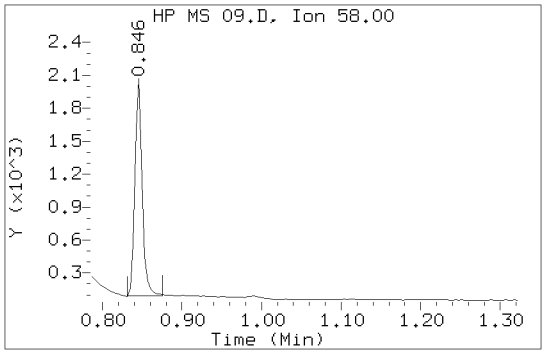
BEFORE

MASS
58
AREA
1746
HEIGHT
2018
18-Apr-2024
14:31
ALSHS
Server



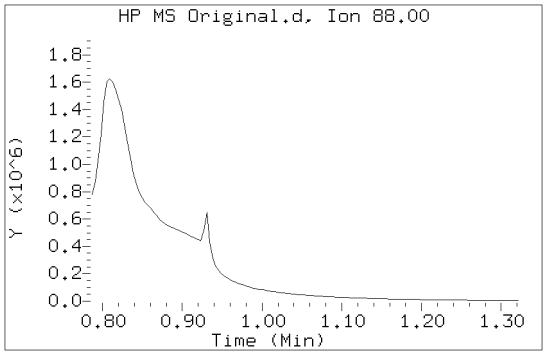
AFTER

MASS
58
AREA
1268
HEIGHT
1979
23-May-2024
08:54



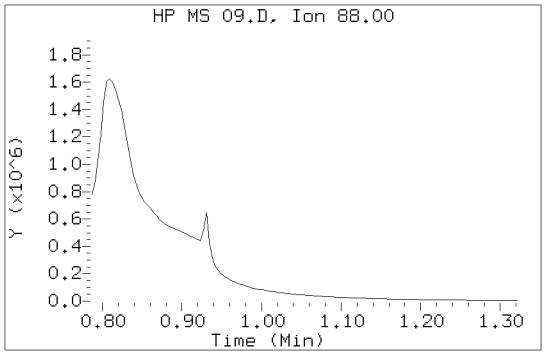
BEFORE

MASS
88
AREA
0
HEIGHT
0
18-Apr-2024
14:31
ALSHS
Server



AFTER

MASS
88
AREA
0
HEIGHT
0
23-May-2024
08:54

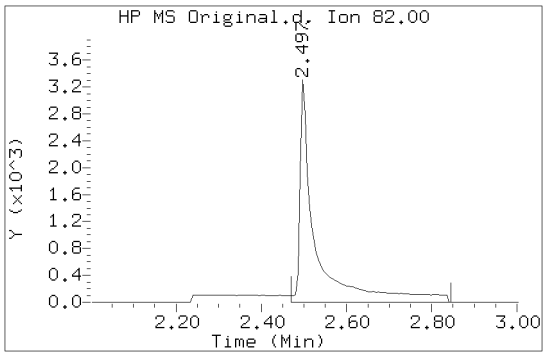


Nitrobenzene-d5 (4165-60-0)

Reason Code:

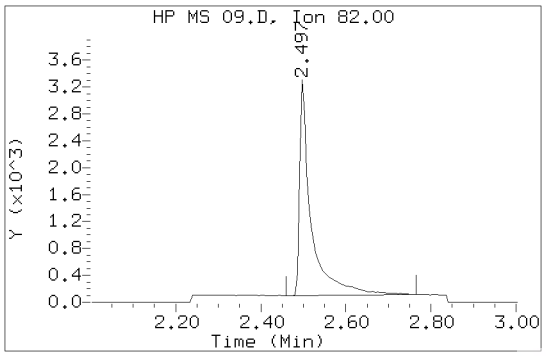
BEFORE

MASS
82
AREA
8325
HEIGHT
3305
18-Apr-2024
14:31
ALSHS
Server



AFTER

MASS
82
AREA
5927
HEIGHT
3202
23-May-2024
08:54



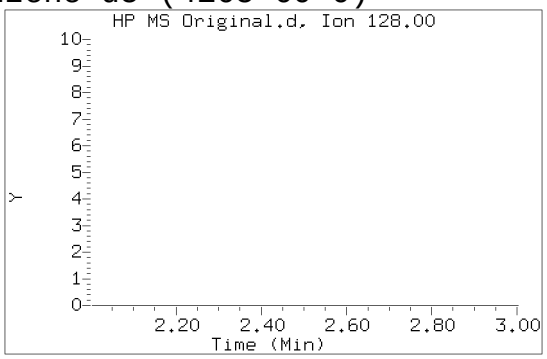
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Inj Date : 18-APR-2024 14:18
InstruID : SV6.i
LabSampID : 14DX-0.20

Nitrobenzene-d5 (4165-60-0)

Reason Code:

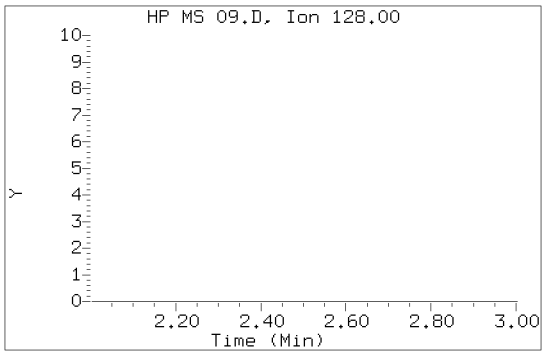
BEFORE

MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
14:31
ALSHS
Server



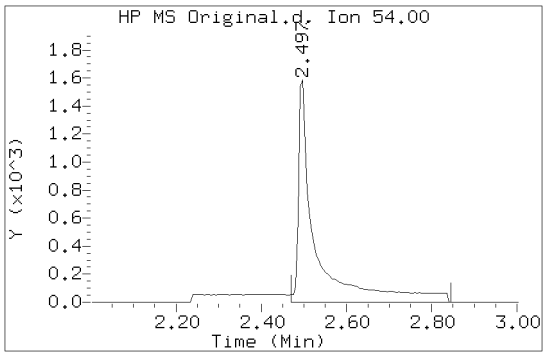
AFTER

MASS
128
AREA
0
HEIGHT
0
23-May-2024
08:54



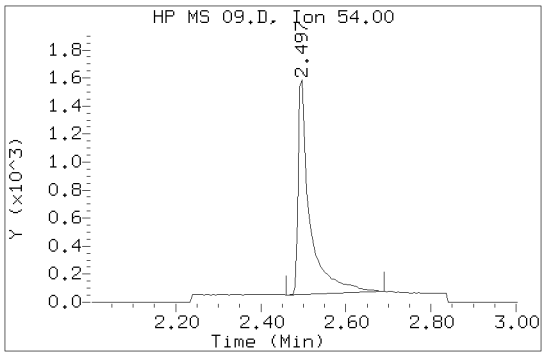
BEFORE

MASS
54
AREA
4354
HEIGHT
1586
18-Apr-2024
14:31
ALSHS
Server



AFTER

MASS
54
AREA
2914
HEIGHT
1530
23-May-2024
08:54

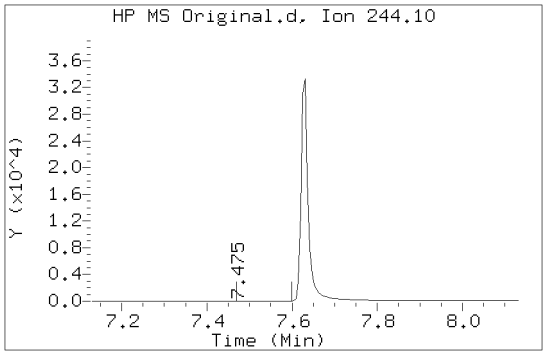


4-Terphenyl-d14 (1718-51-0)

Reason Code:

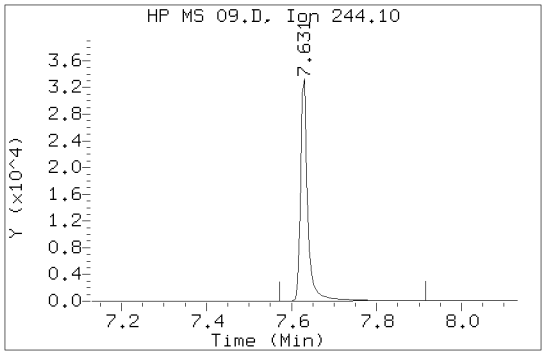
BEFORE

MASS
244.1
AREA
171
HEIGHT
46
18-Apr-2024
14:31
ALSHS
Server



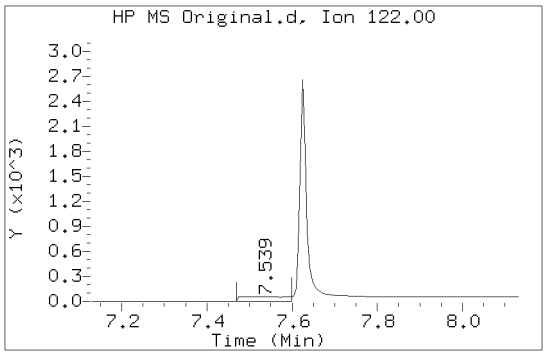
AFTER

MASS
244.1
AREA
39718
HEIGHT
33227
23-May-2024
08:54



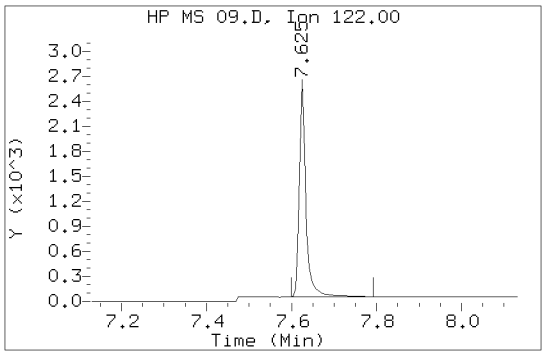
BEFORE

MASS
122
AREA
392
HEIGHT
52
18-Apr-2024
14:31
ALSHS
Server



AFTER

MASS
122
AREA
2843
HEIGHT
2606
23-May-2024
08:54



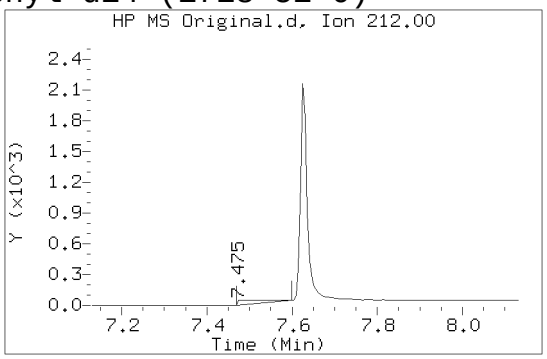
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Inj Date : 18-APR-2024 14:18
InstruID : SV6.i
LabSampID : 14DX-0.20

4-Terphenyl-d14 (1718-51-0)

Reason Code:

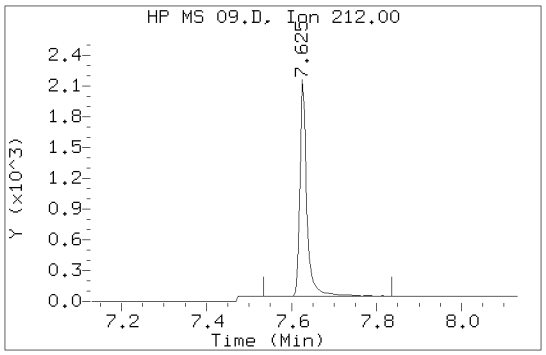
BEFORE

MASS
212
AREA
176
HEIGHT
46
18-Apr-2024
14:31
ALSHS
Server



AFTER

MASS
212
AREA
2426
HEIGHT
2111
23-May-2024
08:54

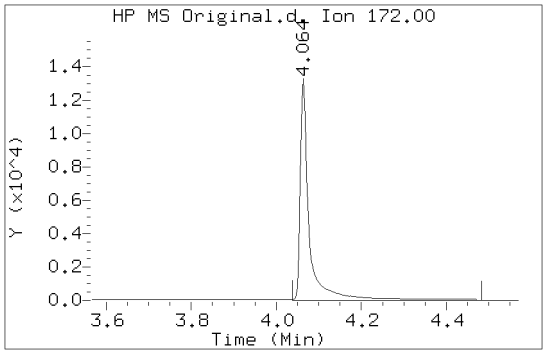


2-Fluorobiphenyl (321-60-8)

Reason Code:

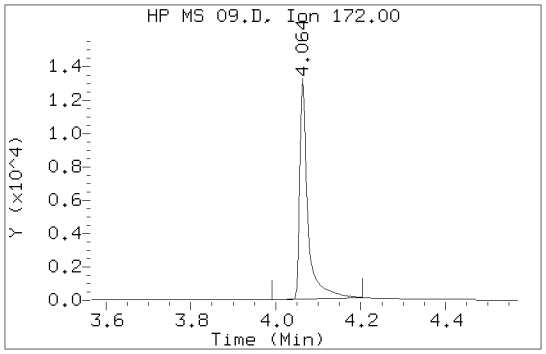
BEFORE

MASS
172
AREA
20172
HEIGHT
13283
18-Apr-2024
14:31
ALSHS
Server



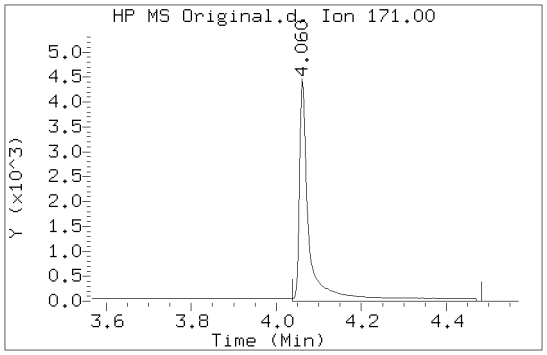
AFTER

MASS
172
AREA
17331
HEIGHT
13194
23-May-2024
08:54



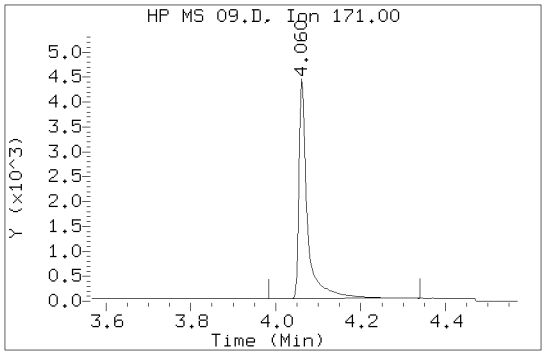
BEFORE

MASS
171
AREA
7647
HEIGHT
4464
18-Apr-2024
14:31
ALSHS
Server



AFTER

MASS
171
AREA
6174
HEIGHT
4414
23-May-2024
08:54



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D Page 1
Report Date: 17-Jul-2024 16:41

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D
Lab Smp Id: 14DX-0.50
Inj Date : 18-APR-2024 14:35
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.50
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 17-Jul-2024 16:39 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 10 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	2.089	2.089	(1.000)	2819	0.10000	(aQM)
* 45 Naphthalene-d8	136	3.076	3.076	(1.000)	9772	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.497	2.502	(0.812)	15956	0.50000	0.5439(AM)
* 86 Acenaphthene-d10	164	4.665	4.671	(1.000)	5911	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.064	4.067	(0.871)	47534	0.50000	0.5260(AM)
* 126 Phenanthrene-d10	188	6.066	6.065	(1.000)	11325	0.10000	(M)
* 182 Chrysene-d12	240	8.593	8.599	(1.000)	9856	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.630	7.630	(0.888)	111493	0.50000	0.5553(AM)
* 198 Perylene-d12	264	10.184	10.189	(1.000)	10138	0.10000	
1 1,4-Dioxane	58	0.831	0.820	(0.398)	2813	0.50000	0.4659(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.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D

Date : 18-APR-2024 14:35

Client ID:

Instrument: SV6.i

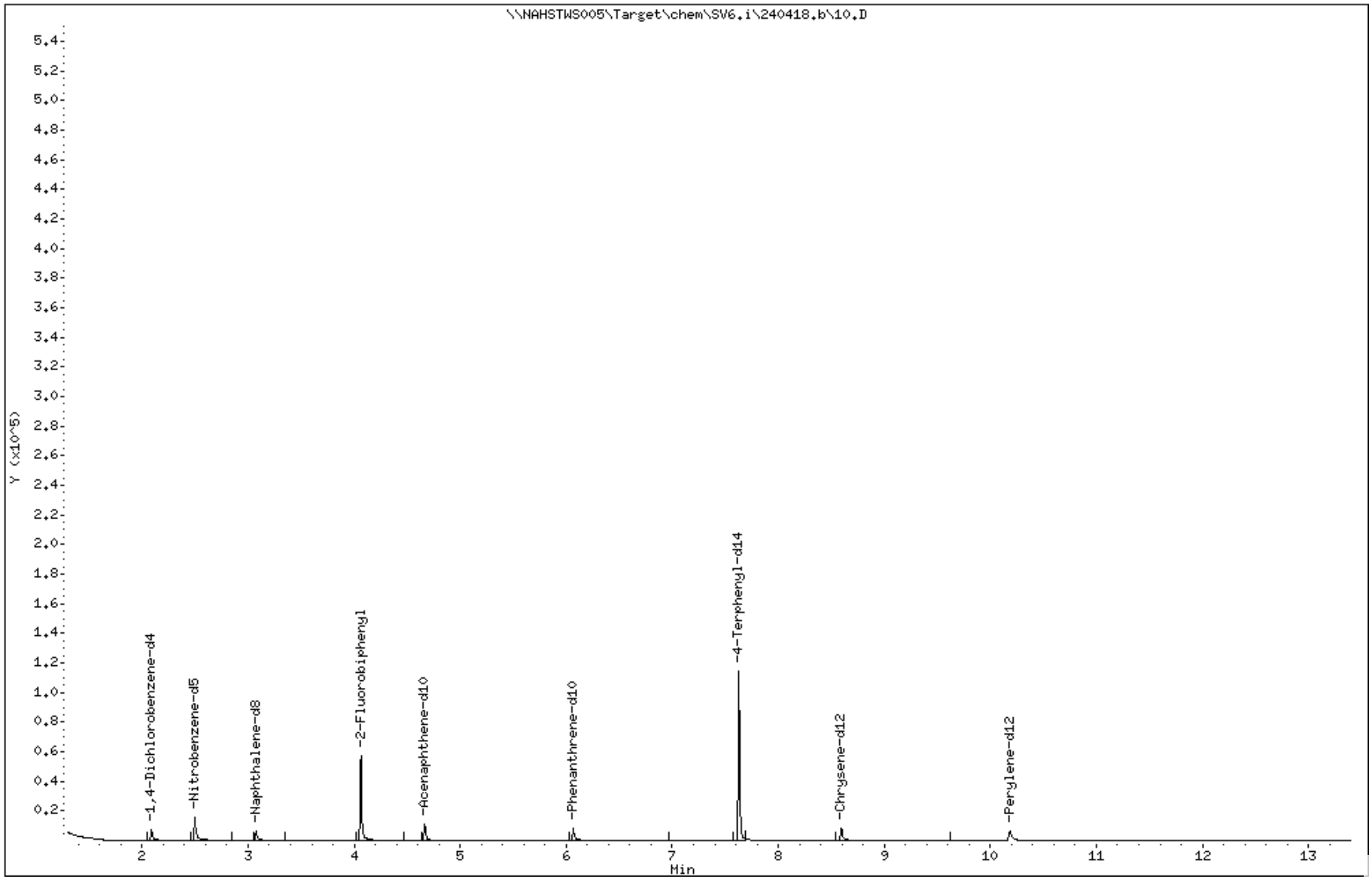
Sample Info: 14DX-0.50

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



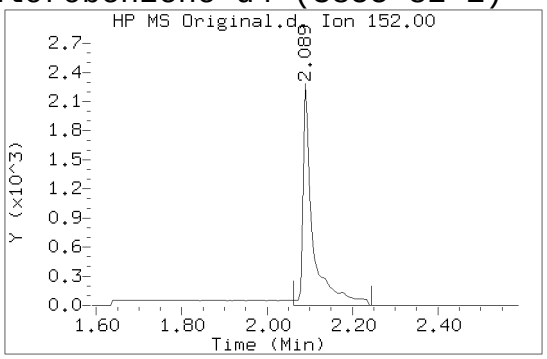
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D
Inj Date : 18-APR-2024 14:35
InstruID : SV6.i
LabSampID : 14DX-0.50

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

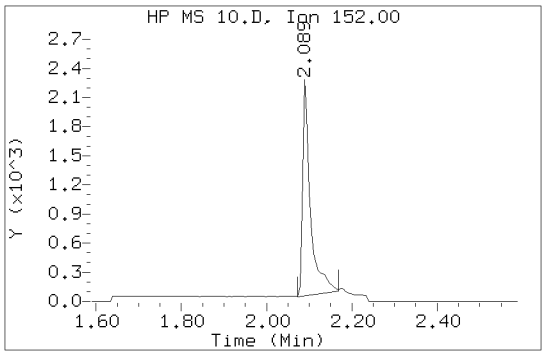
BEFORE

MASS
152
AREA
3637
HEIGHT
2284
18-Apr-2024
14:51
ALSHS
Server



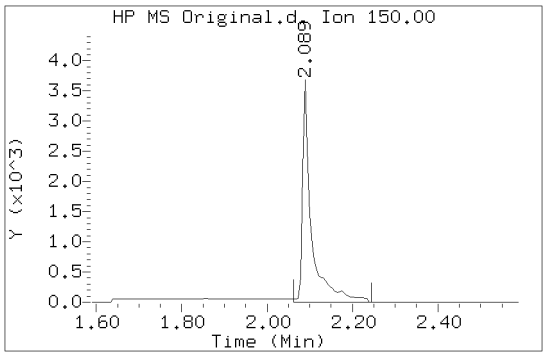
AFTER

MASS
152
AREA
2819
HEIGHT
2227
28-May-2024
13:05



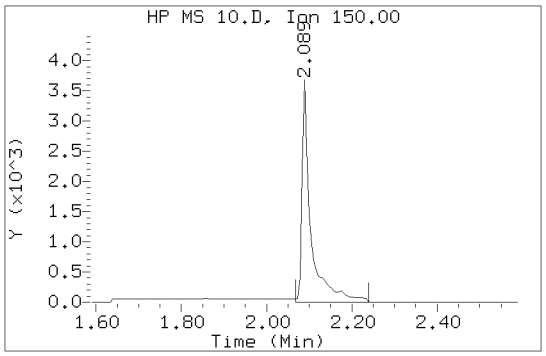
BEFORE

MASS
150
AREA
5370
HEIGHT
3682
18-Apr-2024
14:51
ALSHS
Server



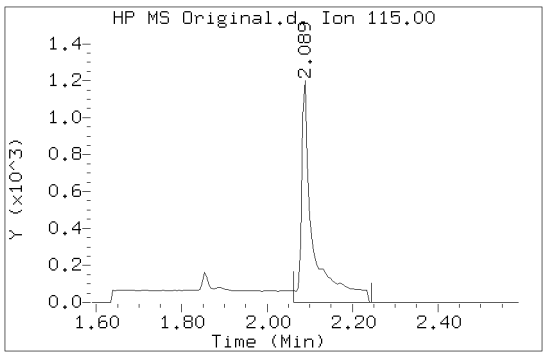
AFTER

MASS
150
AREA
5355
HEIGHT
3682
28-May-2024
13:05



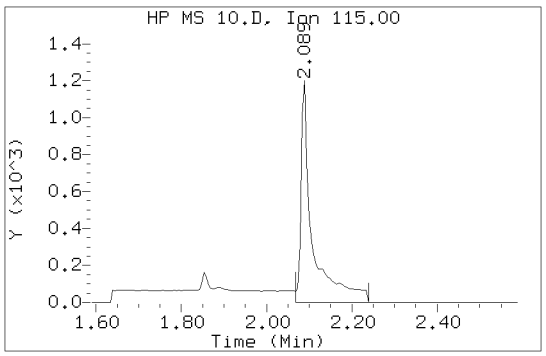
BEFORE

MASS
115
AREA
2255
HEIGHT
1200
18-Apr-2024
14:51
ALSHS
Server



AFTER

MASS
115
AREA
2236
HEIGHT
1200
28-May-2024
13:05

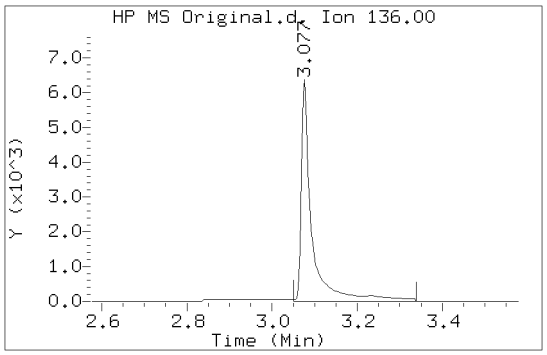


Naphthalene-d8 (1146-65-2)

Reason Code:

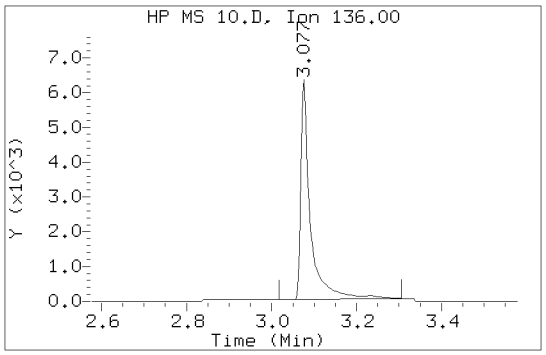
BEFORE

MASS
136
AREA
10944
HEIGHT
6372
18-Apr-2024
14:51
ALSHS
Server



AFTER

MASS
136
AREA
9772
HEIGHT
6315
28-May-2024
13:05



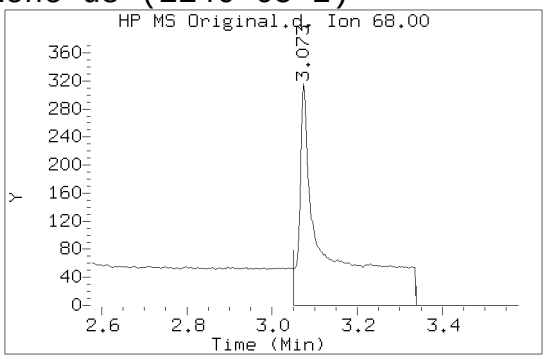
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D
Inj Date : 18-APR-2024 14:35
InstruID : SV6.i
LabSampID : 14DX-0.50

Naphthalene-d8 (1146-65-2)

Reason Code:

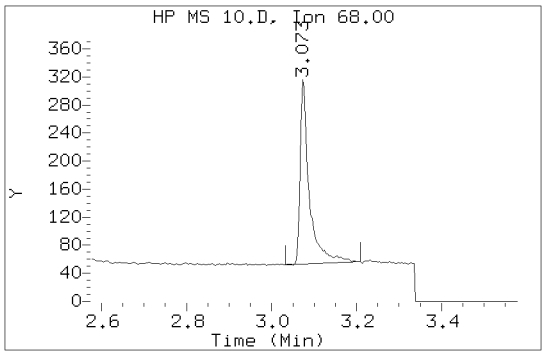
BEFORE

MASS
68
AREA
1337
HEIGHT
316
18-Apr-2024
14:51
ALSHS
Server



AFTER

MASS
68
AREA
385
HEIGHT
262
28-May-2024
13:05

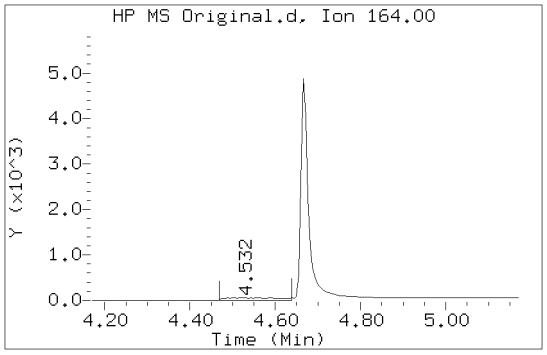


Acenaphthene-d10 (15067-26-2)

Reason Code:

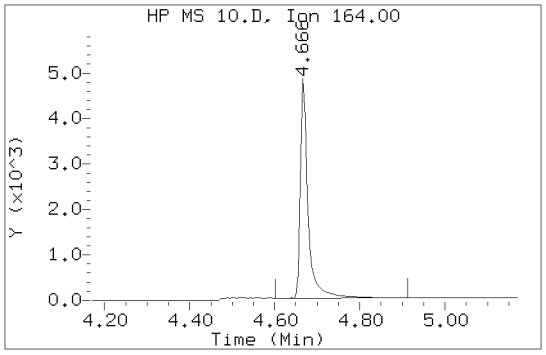
BEFORE

MASS
164
AREA
504
HEIGHT
52
18-Apr-2024
14:51
ALSHS
Server



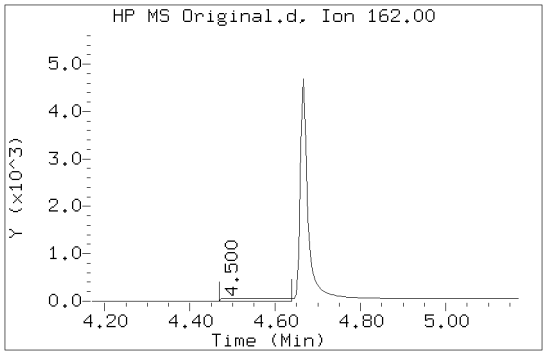
AFTER

MASS
164
AREA
5911
HEIGHT
4828
28-May-2024
13:05



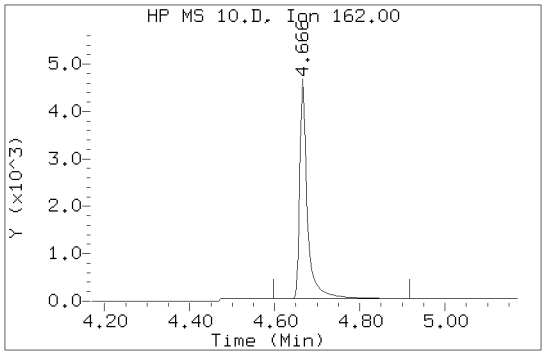
BEFORE

MASS
162
AREA
499
HEIGHT
52
18-Apr-2024
14:51
ALSHS
Server



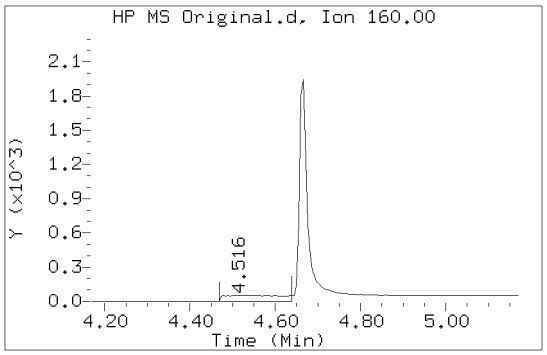
AFTER

MASS
162
AREA
5684
HEIGHT
4637
28-May-2024
13:05



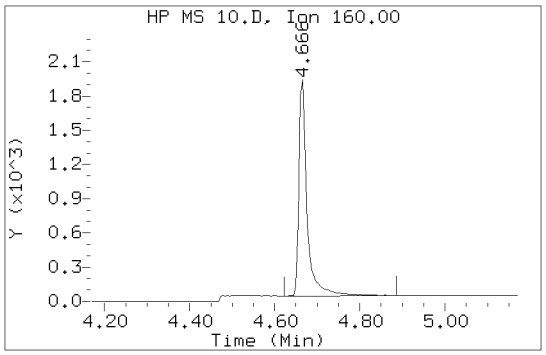
BEFORE

MASS
160
AREA
487
HEIGHT
49
18-Apr-2024
14:51
ALSHS
Server



AFTER

MASS
160
AREA
2489
HEIGHT
1895
28-May-2024
13:05



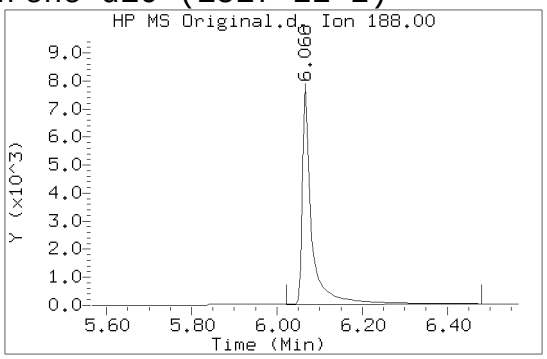
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D
Inj Date : 18-APR-2024 14:35
InstruID : SV6.i
LabSampID : 14DX-0.50

Phenanthrene-d10 (1517-22-2)

Reason Code:

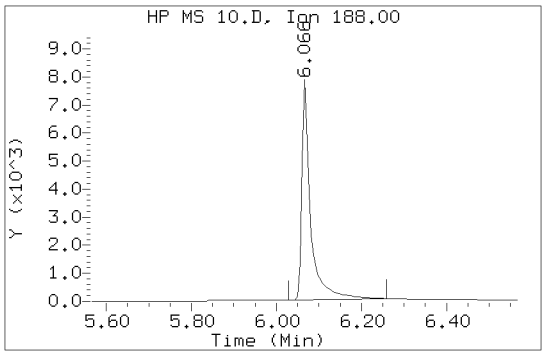
BEFORE

MASS
188
AREA
12429
HEIGHT
7885
18-Apr-2024
14:51
ALSHS
Server



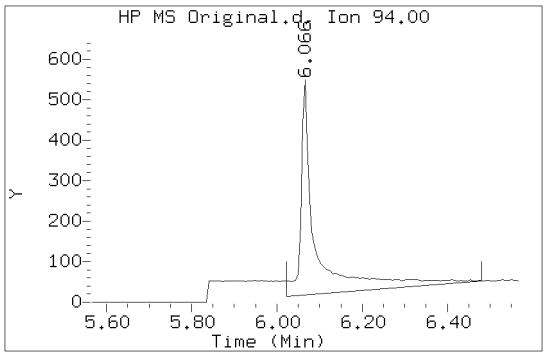
AFTER

MASS
188
AREA
11325
HEIGHT
7848
28-May-2024
13:05



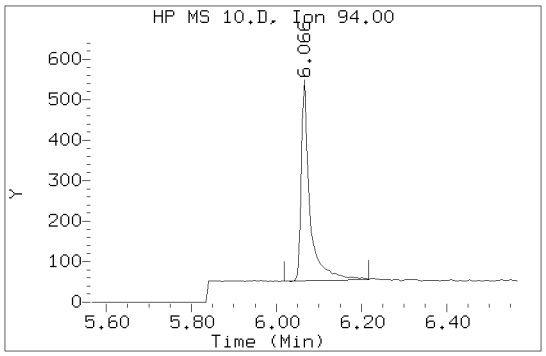
BEFORE

MASS
94
AREA
1281
HEIGHT
530
18-Apr-2024
14:51
ALSHS
Server



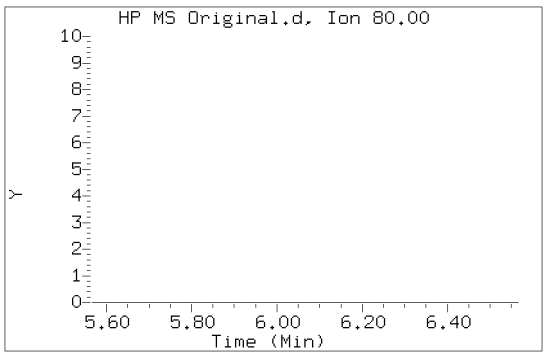
AFTER

MASS
94
AREA
704
HEIGHT
496
28-May-2024
13:05



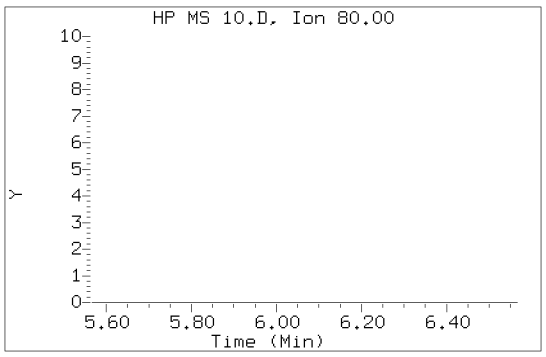
BEFORE

MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
14:51
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
28-May-2024
13:05

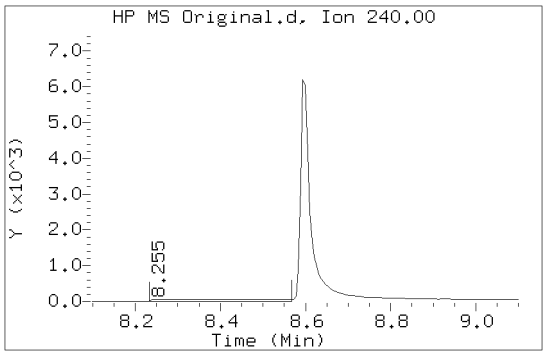


Chrysene-d12 (1719-03-5)

Reason Code:

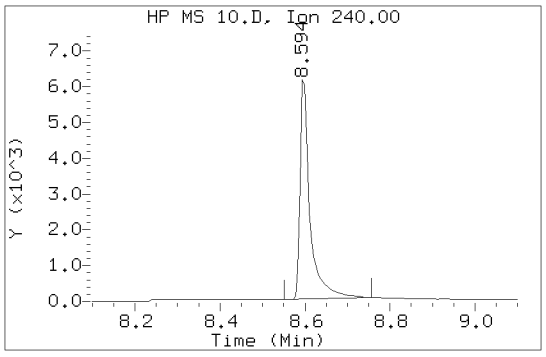
BEFORE

MASS
240
AREA
983
HEIGHT
51
18-Apr-2024
14:51
ALSHS
Server



AFTER

MASS
240
AREA
9856
HEIGHT
6137
28-May-2024
13:05



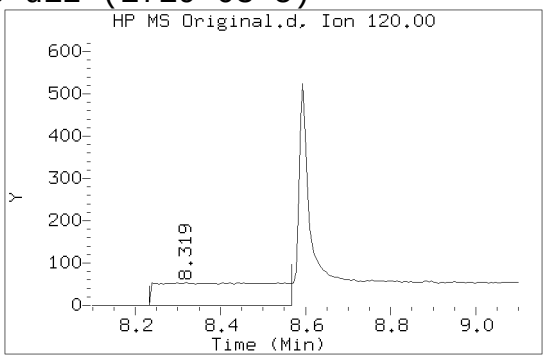
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D
Inj Date : 18-APR-2024 14:35
InstruID : SV6.i
LabSampID : 14DX-0.50

Chrysene-d12 (1719-03-5)

Reason Code:

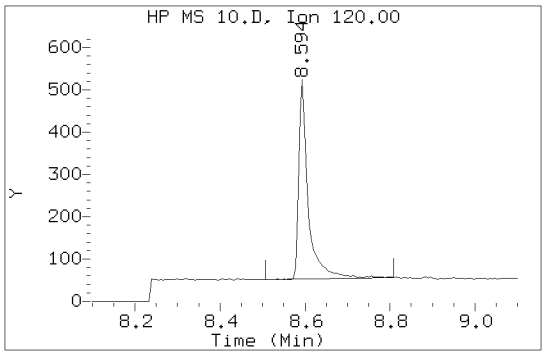
BEFORE

MASS
120
AREA
1034
HEIGHT
54
18-Apr-2024
14:51
ALSHS
Server



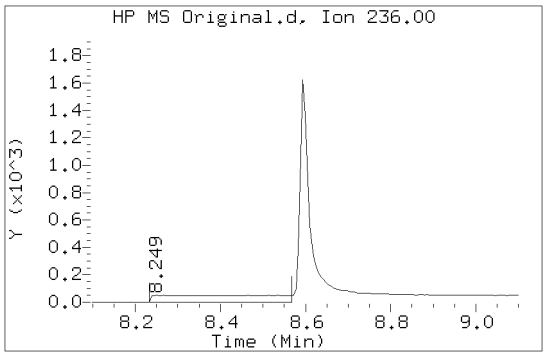
AFTER

MASS
120
AREA
718
HEIGHT
470
28-May-2024
13:05



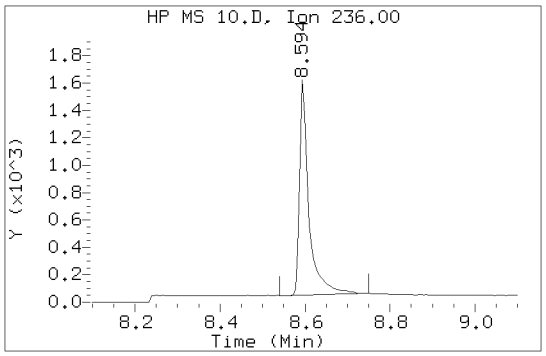
BEFORE

MASS
236
AREA
972
HEIGHT
50
18-Apr-2024
14:51
ALSHS
Server



AFTER

MASS
236
AREA
2369
HEIGHT
1570
28-May-2024
13:05

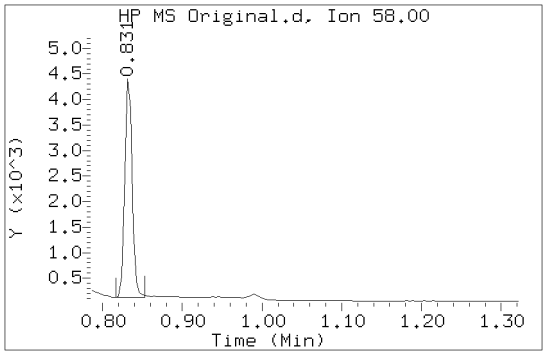


1,4-Dioxane ()

Reason Code:

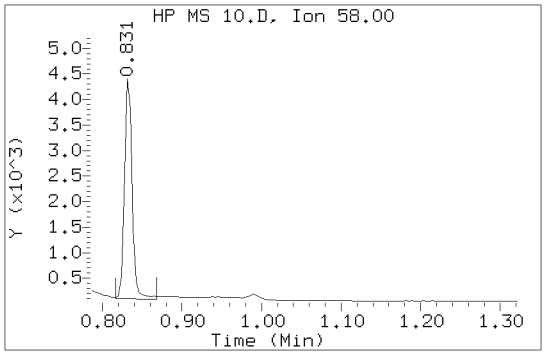
BEFORE

MASS
58
AREA
2715
HEIGHT
4282
18-Apr-2024
14:51
ALSHS
Server



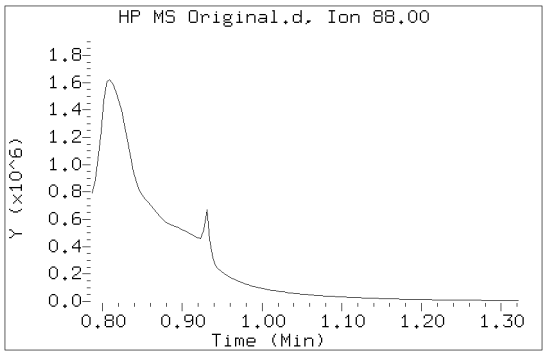
AFTER

MASS
58
AREA
2813
HEIGHT
4303
28-May-2024
13:05



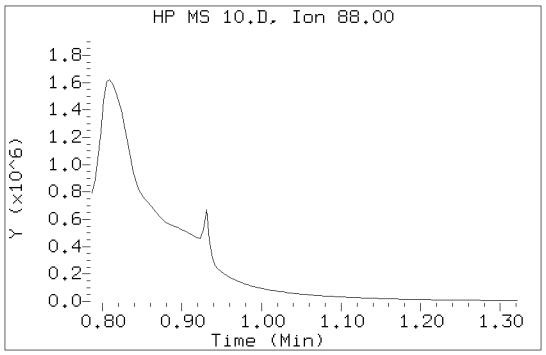
BEFORE

MASS
88
AREA
0
HEIGHT
0
18-Apr-2024
14:51
ALSHS
Server



AFTER

MASS
88
AREA
0
HEIGHT
0
28-May-2024
13:05

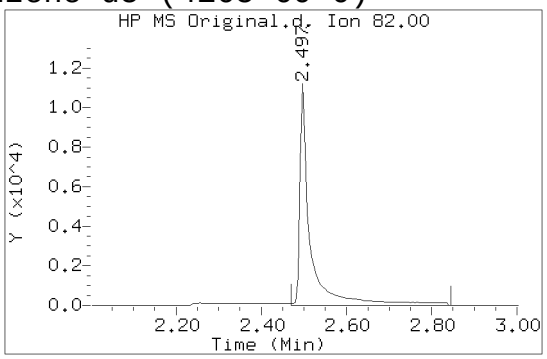


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D
Inj Date : 18-APR-2024 14:35
InstruID : SV6.i
LabSampID : 14DX-0.50

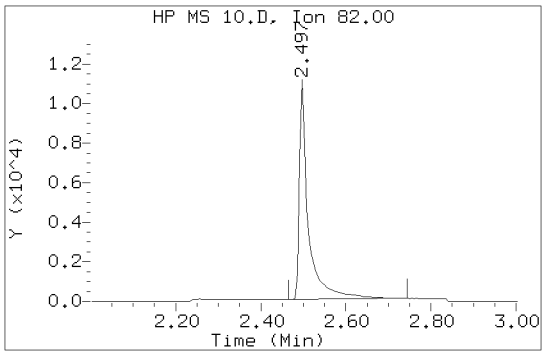
Nitrobenzene-d5 (4165-60-0)

Reason Code:

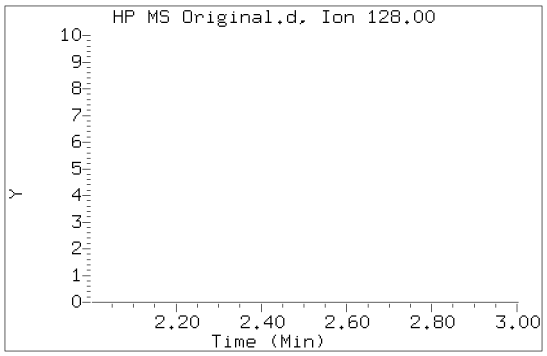
BEFORE
MASS
82
AREA
18735
HEIGHT
11209
18-Apr-2024
14:51
ALSHS
Server



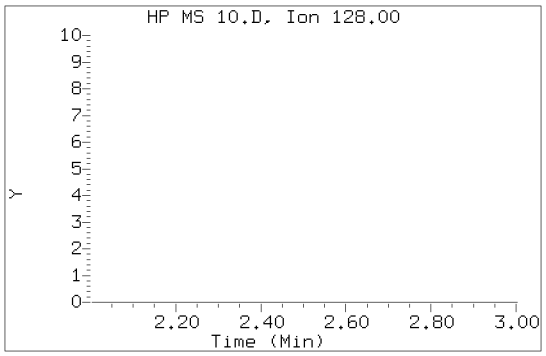
AFTER
MASS
82
AREA
15956
HEIGHT
11102
28-May-2024
13:05



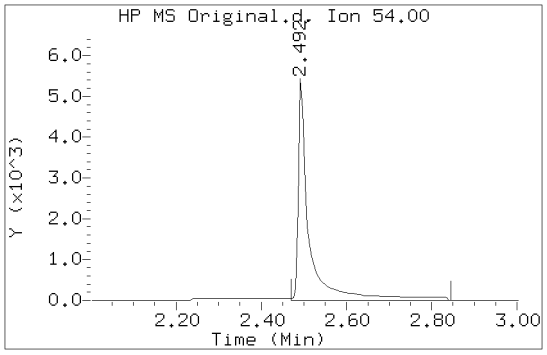
BEFORE
MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
14:51
ALSHS
Server



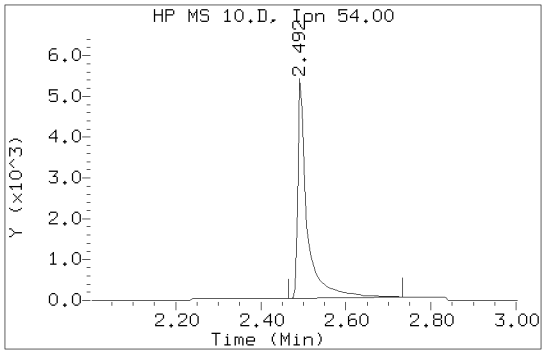
AFTER
MASS
128
AREA
0
HEIGHT
0
28-May-2024
13:05



BEFORE
MASS
54
AREA
9543
HEIGHT
5435
18-Apr-2024
14:51
ALSHS
Server



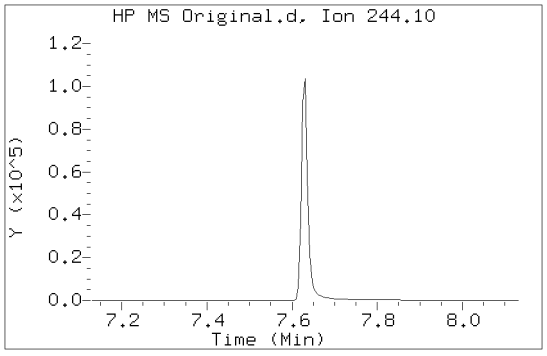
AFTER
MASS
54
AREA
8025
HEIGHT
5379
28-May-2024
13:05



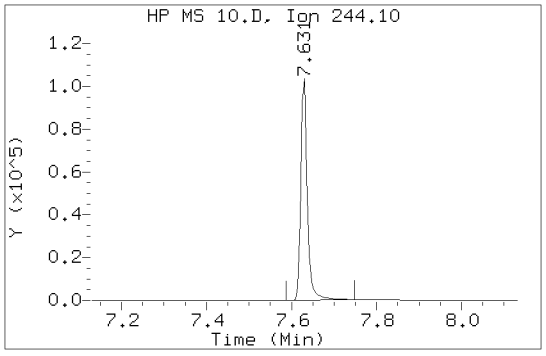
4-Terphenyl-d14 (1718-51-0)

Reason Code:

BEFORE
MASS
244.1
AREA
0
HEIGHT
0
18-Apr-2024
14:51
ALSHS
Server



AFTER
MASS
244.1
AREA
111493
HEIGHT
103434
28-May-2024
13:05



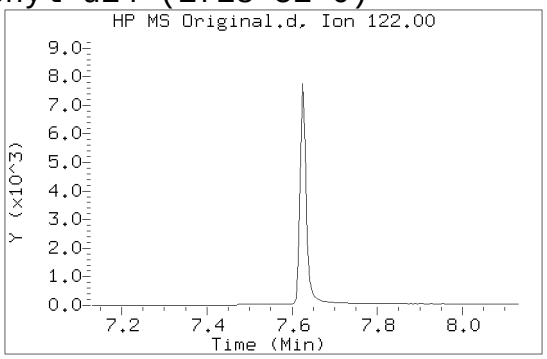
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D
Inj Date : 18-APR-2024 14:35
InstruID : SV6.i
LabSampID : 14DX-0.50

4-Terphenyl-d14 (1718-51-0)

Reason Code:

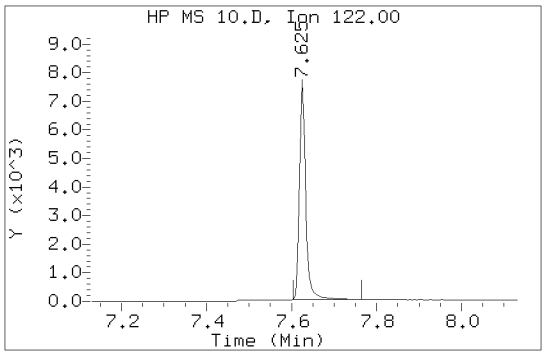
BEFORE

MASS
122
AREA
0
HEIGHT
0
18-Apr-2024
14:51
ALSHS
Server



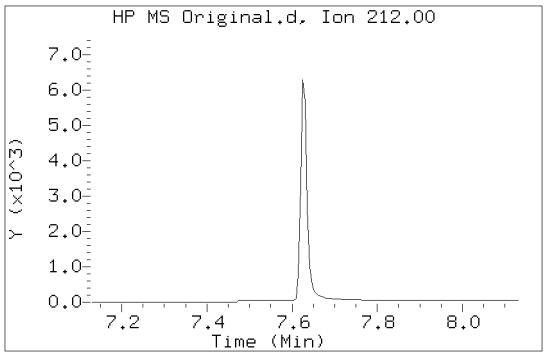
AFTER

MASS
122
AREA
7961
HEIGHT
7695
28-May-2024
13:05



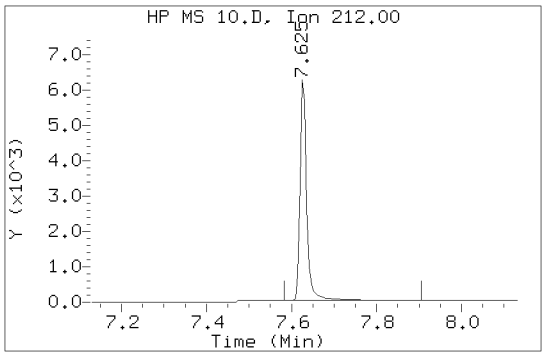
BEFORE

MASS
212
AREA
0
HEIGHT
0
18-Apr-2024
14:51
ALSHS
Server



AFTER

MASS
212
AREA
6900
HEIGHT
6243
28-May-2024
13:05

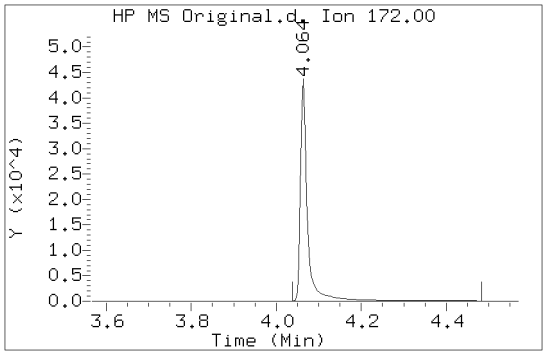


2-Fluorobiphenyl (321-60-8)

Reason Code:

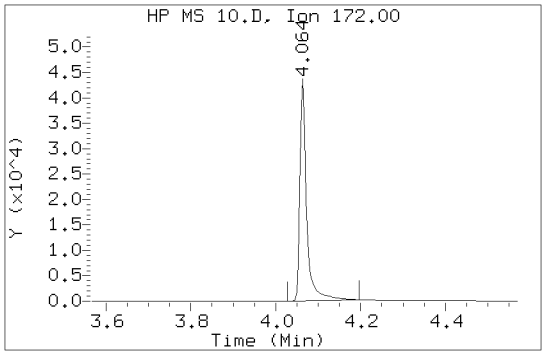
BEFORE

MASS
172
AREA
51564
HEIGHT
43720
18-Apr-2024
14:51
ALSHS
Server



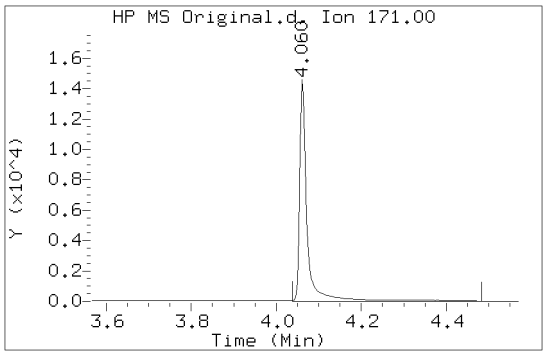
AFTER

MASS
172
AREA
47534
HEIGHT
43625
28-May-2024
13:05



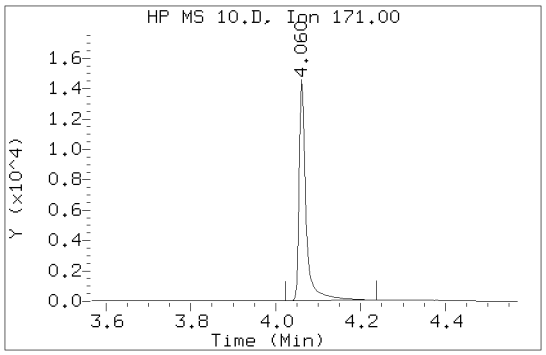
BEFORE

MASS
171
AREA
18313
HEIGHT
14592
18-Apr-2024
14:51
ALSHS
Server



AFTER

MASS
171
AREA
16377
HEIGHT
14537
28-May-2024
13:05



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\11.D Page 1
Report Date: 17-Jul-2024 16:41

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\11.D
Lab Smp Id: 14DX ICV-0.08 Client Smp ID: 14DX ICV-0.08
Inj Date : 18-APR-2024 14:53
Operator : LG Inst ID: SV6.i
Smp Info : 14DX ICV-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 17-Jul-2024 16:39 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 11 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	2.094	2.089	(1.000)	2645	0.10000	(aM)
* 45 Naphthalene-d8	136	3.076	3.076	(1.000)	7708	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.496	2.502	(0.812)	1691	0.07308	0.07308(M)
* 86 Acenaphthene-d10	164	4.665	4.671	(1.000)	5072	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.063	4.067	(0.871)	5460	0.07042	0.07042(M)
* 126 Phenanthrene-d10	188	6.065	6.065	(1.000)	10292	0.10000	(M)
* 182 Chrysene-d12	240	8.593	8.599	(1.000)	7884	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.630	7.630	(0.888)	11331	0.07055	0.07055(M)
* 198 Perylene-d12	264	10.184	10.189	(1.000)	8007	0.10000	
1 1,4-Dioxane	58	0.838	0.820	(0.400)	429	0.07572	0.07572

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\SV6.i\240418.b\11.D

Date : 18-APR-2024 14:53

Client ID: 14DX ICV-0.08

Instrument: SV6.i

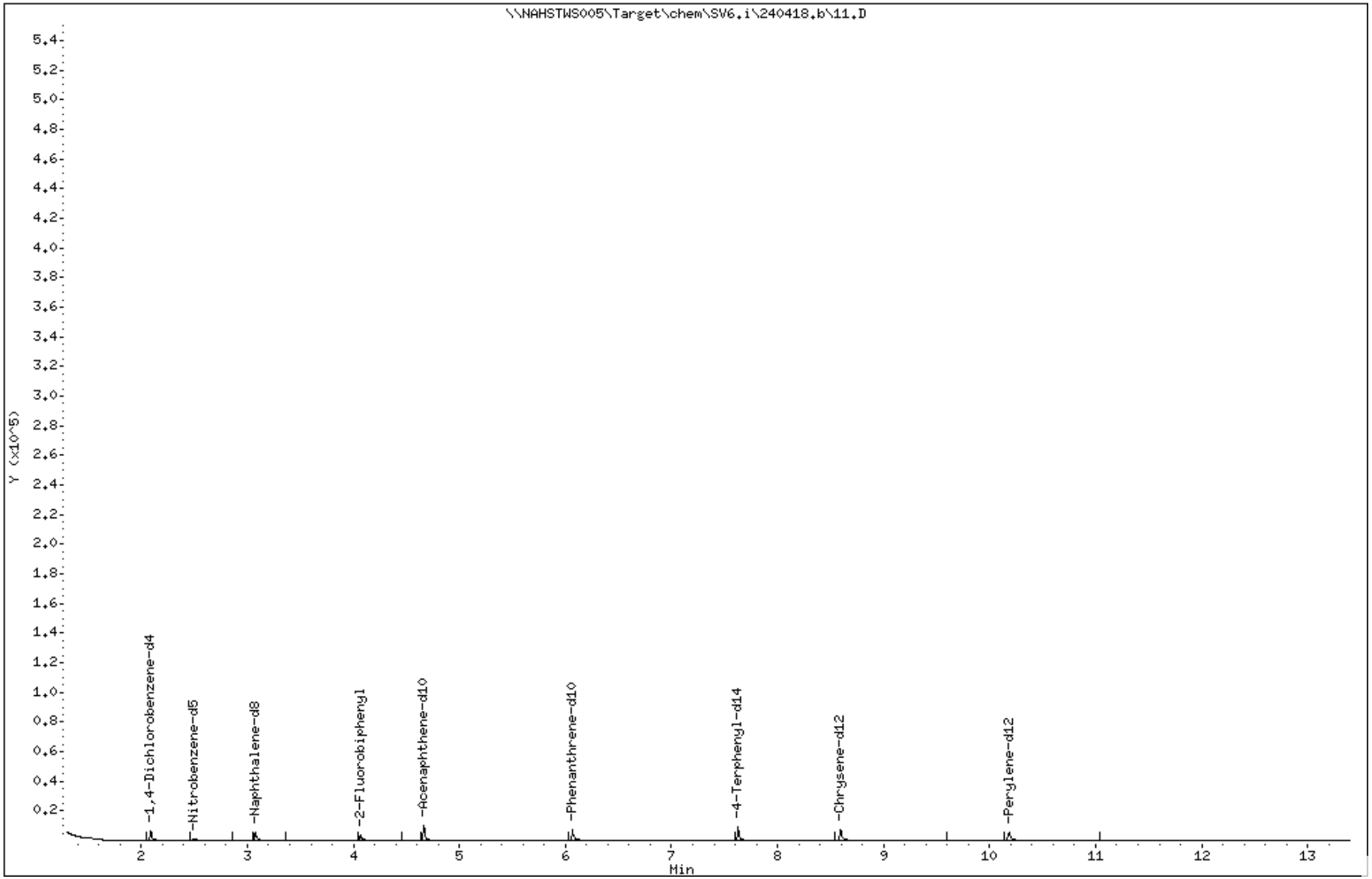
Sample Info: 14DX ICV-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



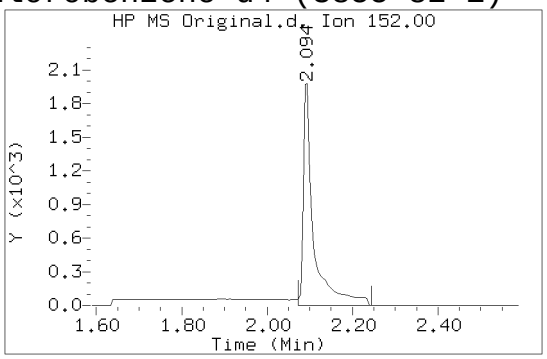
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\11.D
Inj Date : 18-APR-2024 14:53
InstruID : SV6.i
LabSampID : 14DX ICV-0.08

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

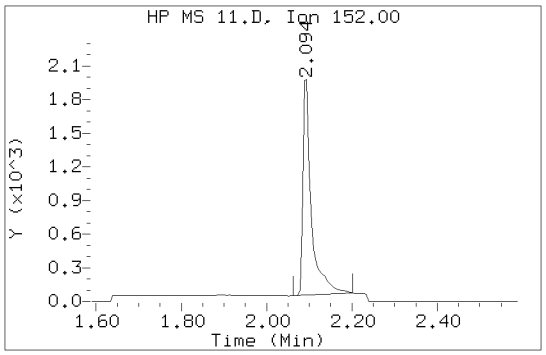
BEFORE

MASS
152
AREA
3284
HEIGHT
1978
18-Apr-2024
15:08
ALSHS
Server



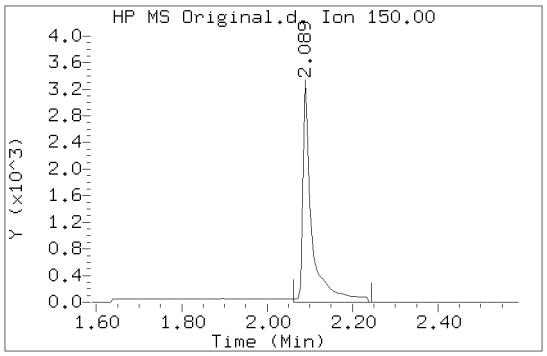
AFTER

MASS
152
AREA
2645
HEIGHT
1921
05-Jun-2024
11:49
ALSHS



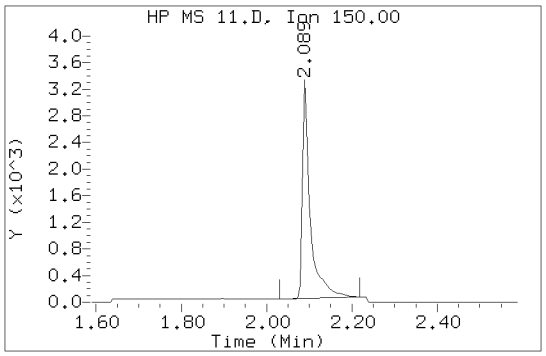
BEFORE

MASS
150
AREA
4880
HEIGHT
3340
18-Apr-2024
15:08
ALSHS
Server



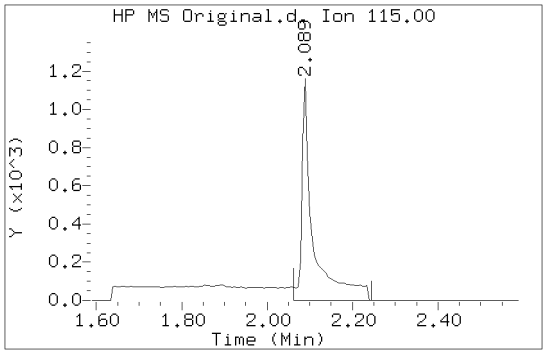
AFTER

MASS
150
AREA
4160
HEIGHT
3281
05-Jun-2024
11:49
ALSHS



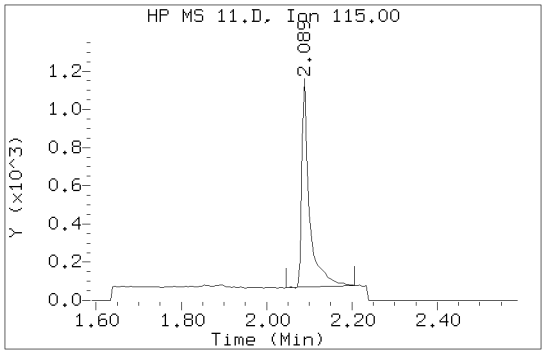
BEFORE

MASS
115
AREA
2134
HEIGHT
1161
18-Apr-2024
15:08
ALSHS
Server



AFTER

MASS
115
AREA
1363
HEIGHT
1092
05-Jun-2024
11:49
ALSHS

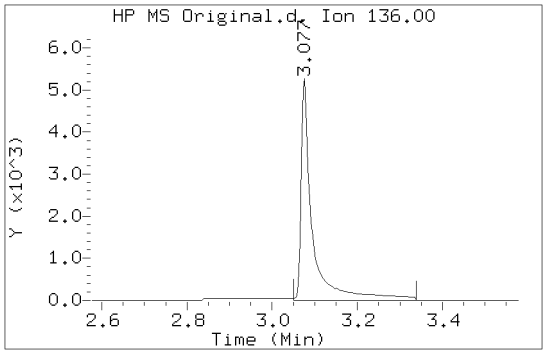


Naphthalene-d8 (1146-65-2)

Reason Code:

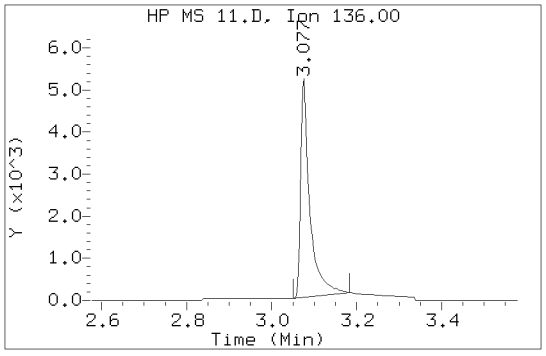
BEFORE

MASS
136
AREA
9692
HEIGHT
5268
18-Apr-2024
15:08
ALSHS
Server



AFTER

MASS
136
AREA
7708
HEIGHT
5193
05-Jun-2024
11:49
ALSHS



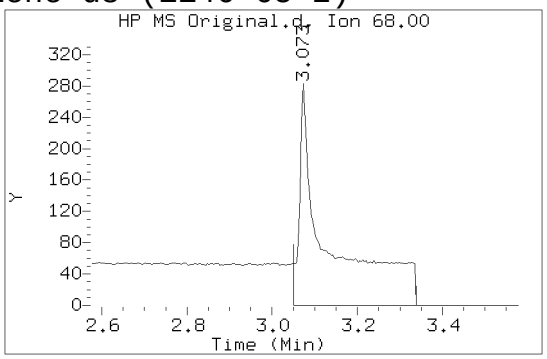
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\11.D
Inj Date : 18-APR-2024 14:53
InstruID : SV6.i
LabSampID : 14DX ICV-0.08

Naphthalene-d8 (1146-65-2)

Reason Code:

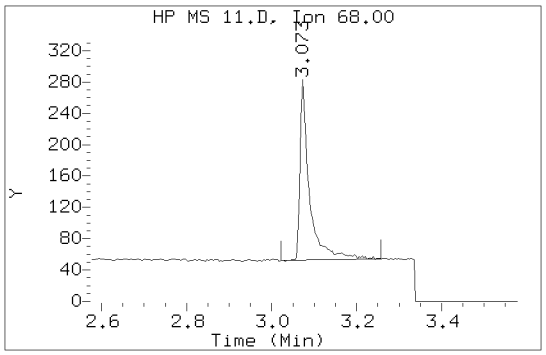
BEFORE

MASS
68
AREA
1275
HEIGHT
283
18-Apr-2024
15:08
ALSHS
Server



AFTER

MASS
68
AREA
353
HEIGHT
230
05-Jun-2024
11:49
ALSHS

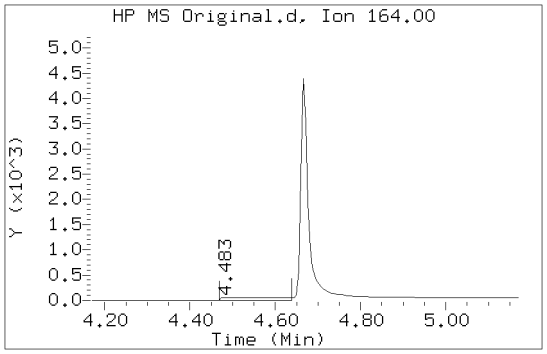


Acenaphthene-d10 (15067-26-2)

Reason Code:

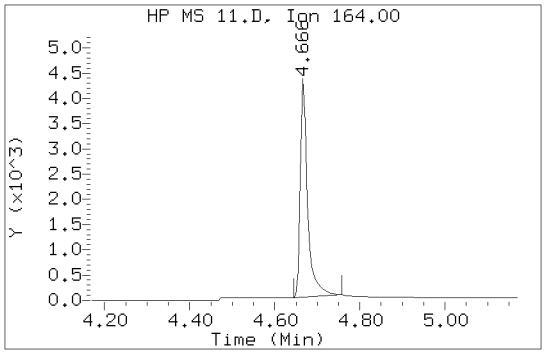
BEFORE

MASS
164
AREA
510
HEIGHT
52
18-Apr-2024
15:08
ALSHS
Server



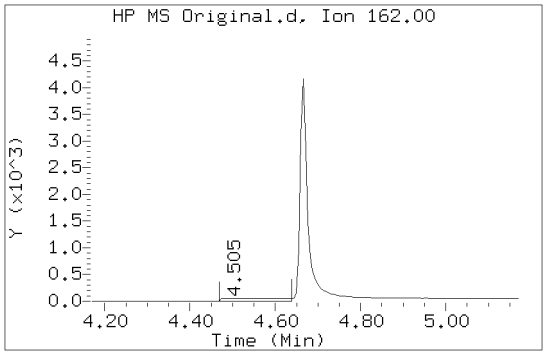
AFTER

MASS
164
AREA
5072
HEIGHT
4329
05-Jun-2024
11:49
ALSHS



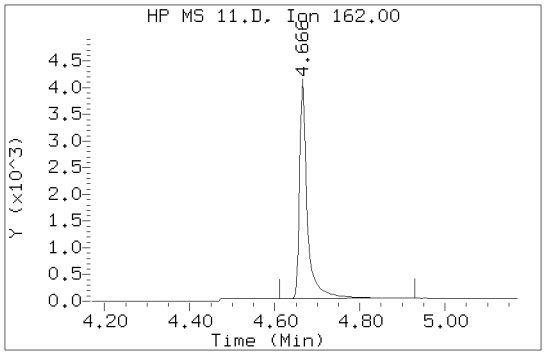
BEFORE

MASS
162
AREA
503
HEIGHT
52
18-Apr-2024
15:08
ALSHS
Server



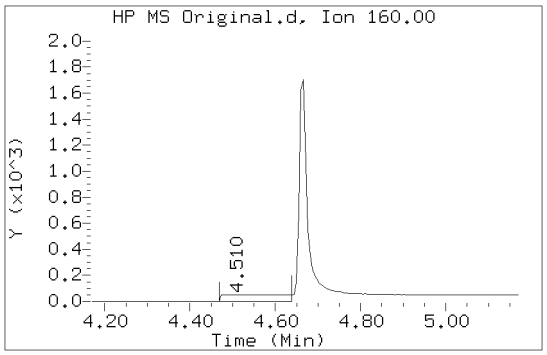
AFTER

MASS
162
AREA
5122
HEIGHT
4113
05-Jun-2024
11:49
ALSHS



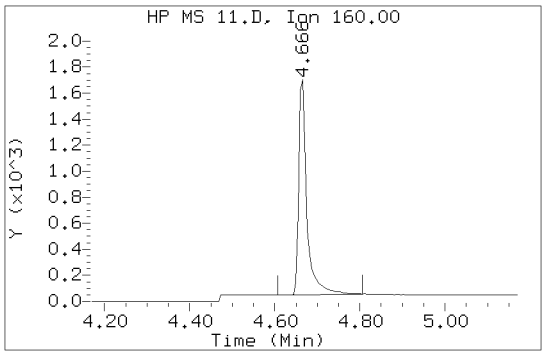
BEFORE

MASS
160
AREA
484
HEIGHT
49
18-Apr-2024
15:08
ALSHS
Server



AFTER

MASS
160
AREA
2174
HEIGHT
1653
05-Jun-2024
11:49
ALSHS



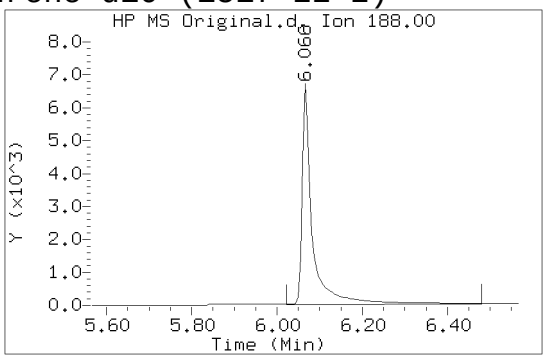
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\11.D
Inj Date : 18-APR-2024 14:53
InstruID : SV6.i
LabSampID : 14DX ICV-0.08

Phenanthrene-d10 (1517-22-2)

Reason Code:

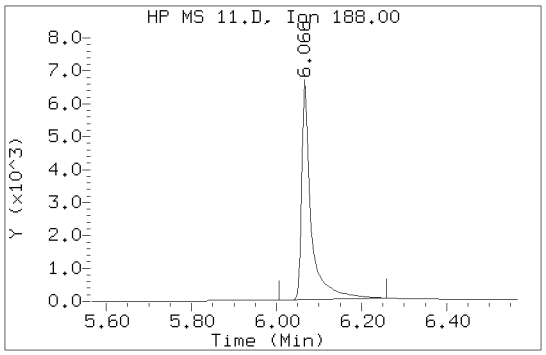
BEFORE

MASS
188
AREA
11412
HEIGHT
6713
18-Apr-2024
15:08
ALSHS
Server



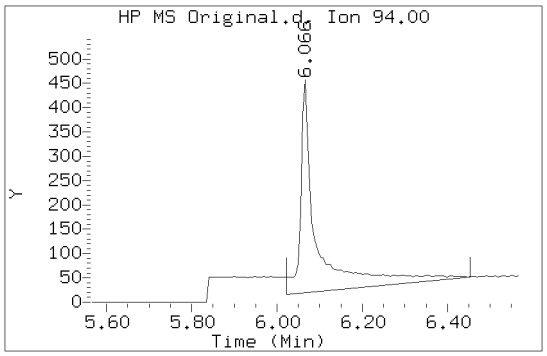
AFTER

MASS
188
AREA
10292
HEIGHT
6674
05-Jun-2024
11:49
ALSHS



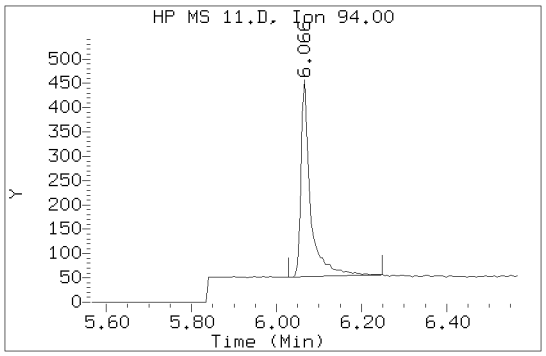
BEFORE

MASS
94
AREA
1149
HEIGHT
437
18-Apr-2024
15:08
ALSHS
Server



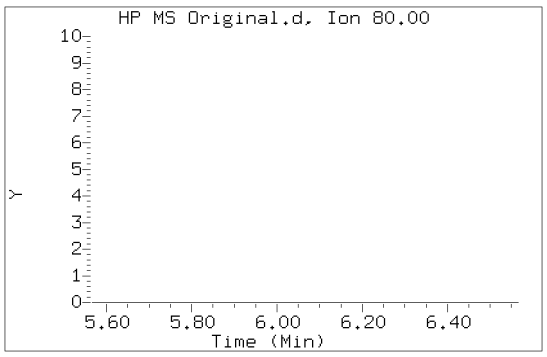
AFTER

MASS
94
AREA
624
HEIGHT
404
05-Jun-2024
11:49
ALSHS



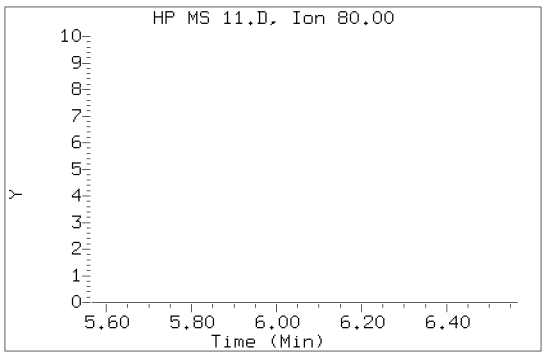
BEFORE

MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
15:08
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
05-Jun-2024
11:49
ALSHS

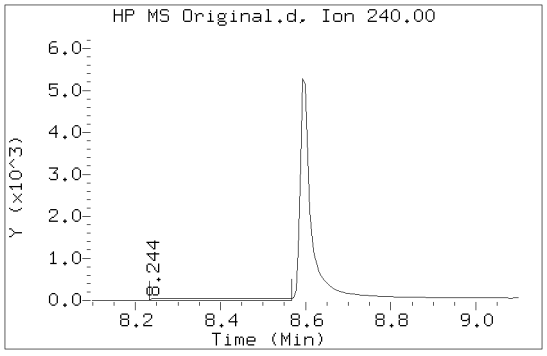


Chrysene-d12 (1719-03-5)

Reason Code:

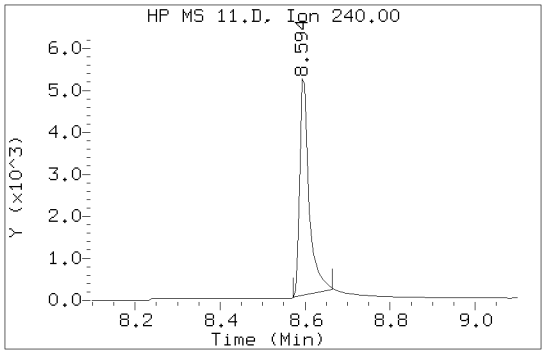
BEFORE

MASS
240
AREA
945
HEIGHT
48
18-Apr-2024
15:08
ALSHS
Server



AFTER

MASS
240
AREA
7884
HEIGHT
5168
05-Jun-2024
11:49
ALSHS

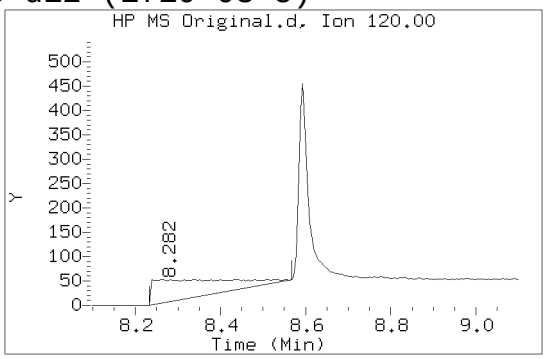


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\11.D
Inj Date : 18-APR-2024 14:53
InstruID : SV6.i
LabSampID : 14DX ICV-0.08

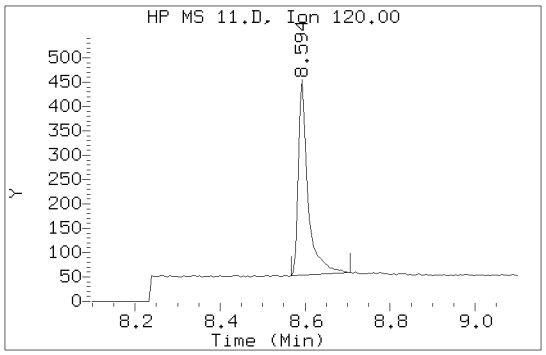
Chrysene-d12 (1719-03-5)

Reason Code:

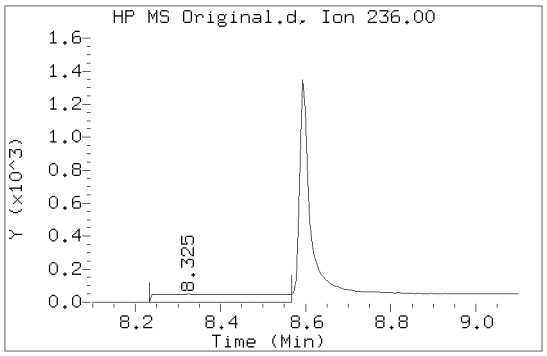
BEFORE
MASS
120
AREA
488
HEIGHT
45
18-Apr-2024
15:08
ALSHS
Server



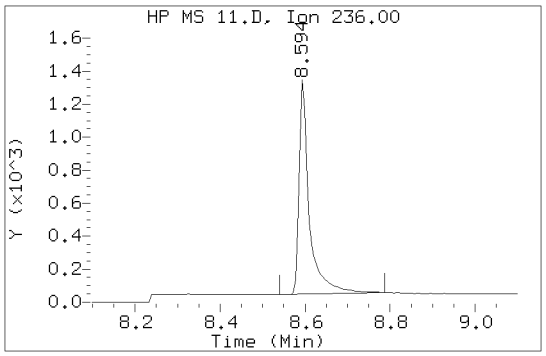
AFTER
MASS
120
AREA
625
HEIGHT
400
05-Jun-2024
11:49
ALSHS



BEFORE
MASS
236
AREA
948
HEIGHT
49
18-Apr-2024
15:08
ALSHS
Server



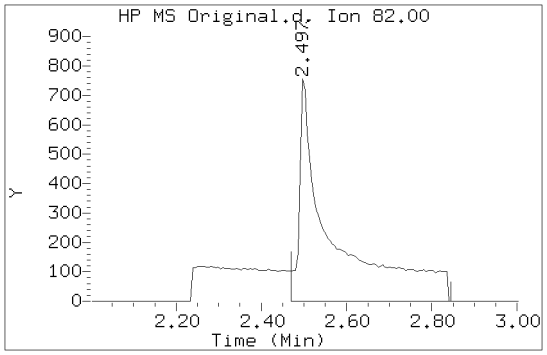
AFTER
MASS
236
AREA
2142
HEIGHT
1296
05-Jun-2024
11:49
ALSHS



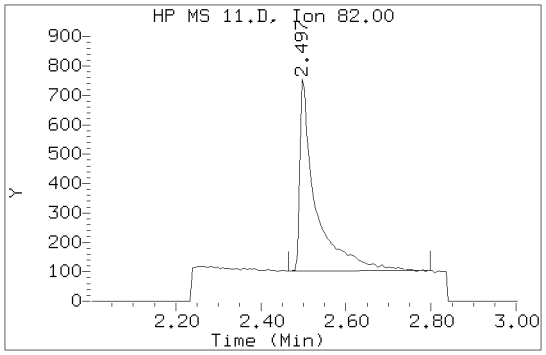
Nitrobenzene-d5 (4165-60-0)

Reason Code:

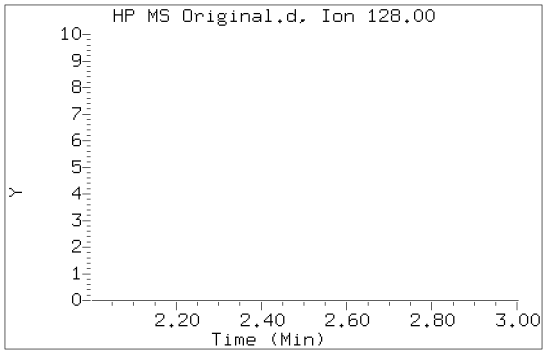
BEFORE
MASS
82
AREA
3957
HEIGHT
756
18-Apr-2024
15:08
ALSHS
Server



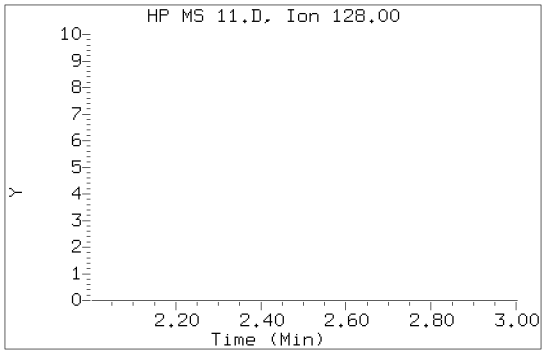
AFTER
MASS
82
AREA
1691
HEIGHT
653
05-Jun-2024
11:49
ALSHS



BEFORE
MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
15:08
ALSHS
Server



AFTER
MASS
128
AREA
0
HEIGHT
0
05-Jun-2024
11:49
ALSHS



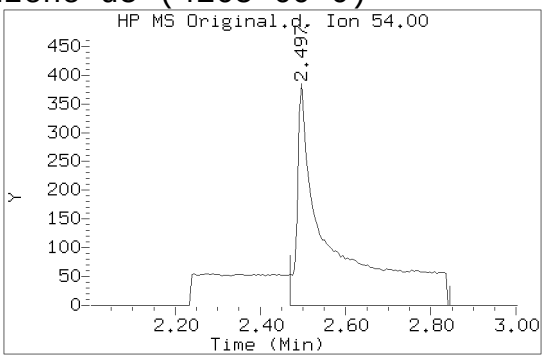
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\11.D
Inj Date : 18-APR-2024 14:53
InstruID : SV6.i
LabSampID : 14DX ICV-0.08

Nitrobenzene-d5 (4165-60-0)

Reason Code:

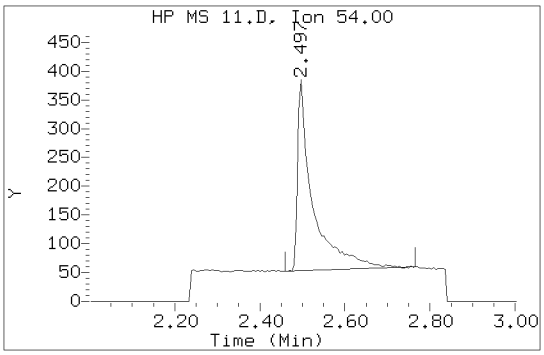
BEFORE

MASS
54
AREA
2061
HEIGHT
385
18-Apr-2024
15:08
ALSHS
Server



AFTER

MASS
54
AREA
818
HEIGHT
332
05-Jun-2024
11:49
ALSHS

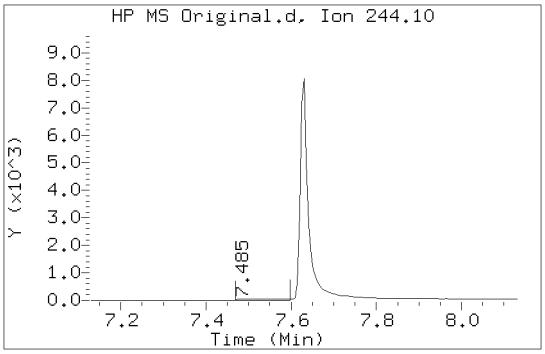


4-Terphenyl-d14 (1718-51-0)

Reason Code:

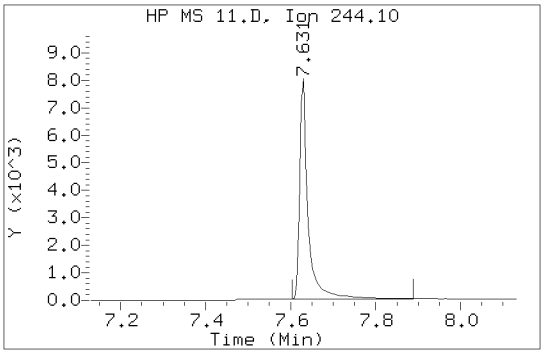
BEFORE

MASS
244.1
AREA
363
HEIGHT
48
18-Apr-2024
15:08
ALSHS
Server



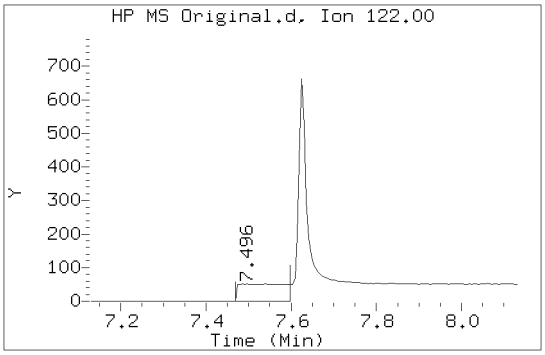
AFTER

MASS
244.1
AREA
11331
HEIGHT
8023
05-Jun-2024
11:49
ALSHS



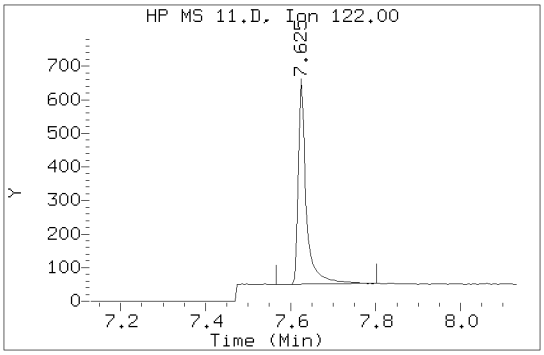
BEFORE

MASS
122
AREA
387
HEIGHT
52
18-Apr-2024
15:08
ALSHS
Server



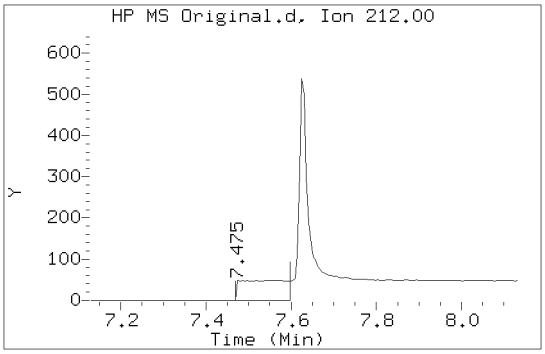
AFTER

MASS
122
AREA
801
HEIGHT
611
05-Jun-2024
11:49
ALSHS



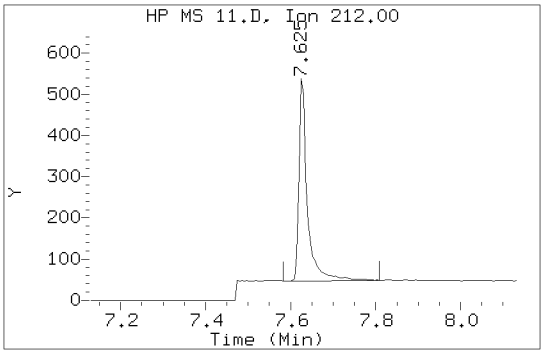
BEFORE

MASS
212
AREA
367
HEIGHT
48
18-Apr-2024
15:08
ALSHS
Server



AFTER

MASS
212
AREA
675
HEIGHT
490
05-Jun-2024
11:49
ALSHS



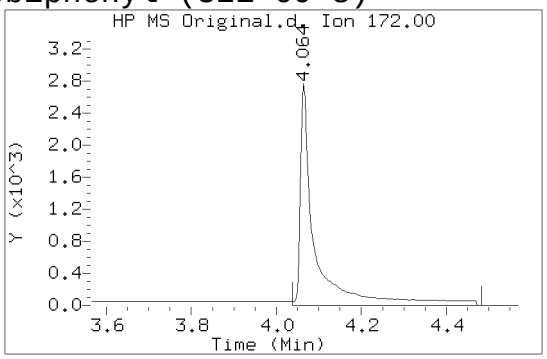
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\11.D
Inj Date : 18-APR-2024 14:53
InstruID : SV6.i
LabSampID : 14DX ICV-0.08

2-Fluorobiphenyl (321-60-8)

Reason Code:

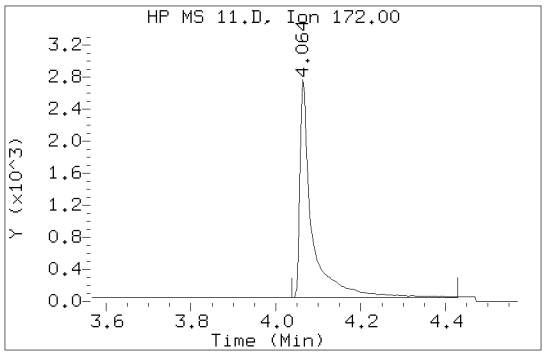
BEFORE

MASS
172
AREA
6739
HEIGHT
2770
18-Apr-2024
15:08
ALSHS
Server



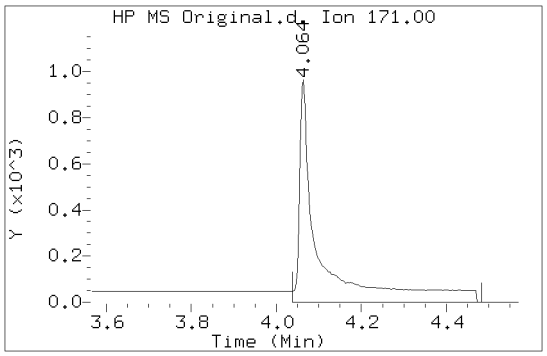
AFTER

MASS
172
AREA
5460
HEIGHT
2724
05-Jun-2024
11:49
ALSHS



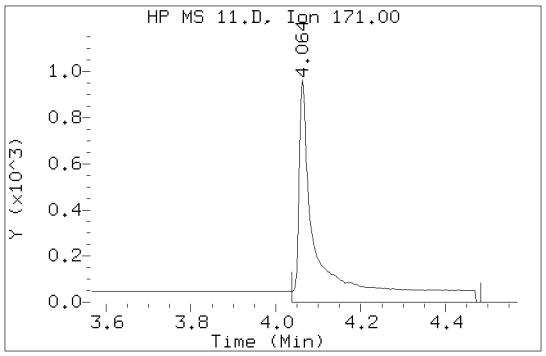
BEFORE

MASS
171
AREA
3102
HEIGHT
964
18-Apr-2024
15:08
ALSHS
Server



AFTER

MASS
171
AREA
3102
HEIGHT
964
05-Jun-2024
11:49
ALSHS



HS24060747 - ME - HG_W_DODICP_W_DOD

ALS WO# HS24060747

ALS Houston, US

Date: 12-Jul-24

FORM 13 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060747
Start Date: 24-Jun-2024 End Date: 24-Jun-2024

Run ID:HG04_470273
Instrument:HG04
Method:SW7470A

Sample No.	D/F	Time	FileID	Analytes
ICV	1	24-Jun-2024 11:25	_8094599	HG
ICB	1	24-Jun-2024 11:27	_8094600	HG
CRA	1	24-Jun-2024 11:28	_8094601	HG
CCV 1	1	24-Jun-2024 11:31	_8094602	HG
CCB 1	1	24-Jun-2024 11:32	_8094603	HG
CCV 2	1	24-Jun-2024 11:58	_8094614	HG
CCB 2	1	24-Jun-2024 12:00	_8094615	HG
CCV 3	1	24-Jun-2024 12:25	_8094626	HG
CCB 3	1	24-Jun-2024 12:26	_8094627	HG
CCV 4	1	24-Jun-2024 12:53	_8094638	HG
CCB 4	1	24-Jun-2024 12:55	_8094639	HG
CCV 5	1	24-Jun-2024 13:19	_8094650	HG
CCB 5	1	24-Jun-2024 13:21	_8094651	HG
CCV 6	1	24-Jun-2024 13:40	_8094662	HG
CCB 6	1	24-Jun-2024 13:42	_8094663	HG
CCV 7	1	24-Jun-2024 14:05	_8094674	HG
CCB 7	1	24-Jun-2024 14:07	_8094675	HG
CCV 8	1	24-Jun-2024 14:34	_8094698	HG
CCB 8	1	24-Jun-2024 14:36	_8094699	HG
MBLK-214008	1	24-Jun-2024 14:42	_8094701	HG
LCS-214008	1	24-Jun-2024 14:44	_8094702	HG
ZZZZZZMS	1	24-Jun-2024 14:49	_8094705	HG
ZZZZZZMSD	1	24-Jun-2024 14:51	_8094706	HG
CCV 9	1	24-Jun-2024 15:00	_8094710	HG
CCB 9	1	24-Jun-2024 15:01	_8094711	HG
129_061024	1	24-Jun-2024 15:05	_8094712	HG
MW14_061024	1	24-Jun-2024 15:07	_8094713	HG
CO9_061024	1	24-Jun-2024 15:08	_8094714	HG
126_061024	1	24-Jun-2024 15:10	_8094715	HG
CCV 10	1	24-Jun-2024 15:30	_8094722	HG
CCB 10	1	24-Jun-2024 15:32	_8094723	HG
CCV 11	1	24-Jun-2024 15:53	_8094791	HG
CCB 11	1	24-Jun-2024 15:54	_8094792	HG
CRA	1	24-Jun-2024 15:56	_8094801	HG

ALS Houston, US

Date: 12-Jul-24

FORM 13 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060747
Start Date: 25-Jun-2024 End Date: 25-Jun-2024

Run ID:ICPMS07_470364
Instrument:ICPMS07
Method:

Sample No.	D/F	Time	FileID	Analytes
ICPMS07_470364_Tune	1	25-Jun-2024 00:00	ICPMS07_470364_Tune_1	
CAL BLK	1	25-Jun-2024 10:33	010CALB.d_8096746	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
2/10/200	1	25-Jun-2024 10:35	011CALS.d_8096747	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
5/25/500	1	25-Jun-2024 10:38	012CALS.d_8096748	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
10/50/100	1	25-Jun-2024 10:41	013CALS.d_8096749	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
100/500/10K	1	25-Jun-2024 10:43	014CALS.d_8096750	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
200/1000/20K	1	25-Jun-2024 10:46	015CALS.d_8096751	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
100/500/10K	1	25-Jun-2024 10:54	017CALS.d_8096753	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICV	1	25-Jun-2024 11:01	019_ICV.d_8096755	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LLICV2	1	25-Jun-2024 11:06	021LCV2.d_8096757	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LLICV5	1	25-Jun-2024 11:09	022LCV5.d_8096758	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICB	1	25-Jun-2024 11:13	024_ICB.d_8096760	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICSA	1	25-Jun-2024 11:18	026ICSA.d_8096762	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICSAB	1	25-Jun-2024 11:21	027ICSB.d_8096763	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CAL BLK	1	25-Jun-2024 15:47	116CALB.d_8097895	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
2/10/200	1	25-Jun-2024 15:49	117CALS.d_8097896	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
5/25/500	1	25-Jun-2024 15:52	118CALS.d_8097897	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
10/50/100	1	25-Jun-2024 15:54	119CALS.d_8097898	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
100/500/10K	1	25-Jun-2024 15:57	120CALS.d_8097899	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
200/1000/20K	1	25-Jun-2024 15:59	121CALS.d_8097900	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LLCCV2	1	25-Jun-2024 16:11	125LCV2.d_8097904	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LLCCV5	1	25-Jun-2024 16:13	126LCV5.d_8097905	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICCB 1	1	25-Jun-2024 16:15	127_ICB.d_8097906	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICV	1	25-Jun-2024 16:18	128_ICV.d_8097907	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICSA	1	25-Jun-2024 16:29	130ICSA.d_8097918	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICSAB	1	25-Jun-2024 16:32	131ICSB.d_8097919	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCV 1	1	25-Jun-2024 16:42	134_CCV.d_8098136	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCB 2	1	25-Jun-2024 16:44	135_CCB.d_8098137	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
MBLK-213798	1	25-Jun-2024 16:47	136SMPL.d_8098138	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LCS-213798	1	25-Jun-2024 16:49	137SMPL.d_8098139	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE V ZN
ZZZZZZSD	5	25-Jun-2024 16:52	138SMPL.d_8098175	AG AS BA BE CA CD CO CR CU FE K MG NI PB SB SE TL V

ALS Houston, US

Date: 12-Jul-24

FORM 13 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060747
Start Date: 25-Jun-2024 End Date: 25-Jun-2024

Run ID:ICPMS07_470364
Instrument:ICPMS07
Method:

Sample No.	D/F	Time	FileID	Analytes
ZZZZZZMS	1	25-Jun-2024 16:56	140SMPL.d_8098177	AG AS BA BE CA CD CO CR CU FE K MG NI PB SB SE TL V
ZZZZZZMSD	1	25-Jun-2024 16:59	141SMPL.d_8098178	AG AS BA BE CA CD CO CR CU FE K MG NI PB SB SE TL V
ZZZZZZPDS	1	25-Jun-2024 17:01	142SMPL.d_8098179	AG AS BA BE CD CO CR CU FE K MG NI PB SB SE TL V
CCV 2	1	25-Jun-2024 17:06	144_CCV.d_8098241	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCB 3	1	25-Jun-2024 17:09	145_CCB.d_8098242	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
129_061024	1	25-Jun-2024 17:23	151SMPL.d_8098247	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
MW14_061024	1	25-Jun-2024 17:26	152SMPL.d_8098248	AG AL AS BA BE CA CD CO CR CU FE K MG NI PB SB SE TL V ZN
CO9_061024	1	25-Jun-2024 17:28	153SMPL.d_8098249	AG AL AS BA BE CA CD CO CR CU FE K MG MN NI PB SB SE TL V ZN
126_061024	1	25-Jun-2024 17:31	154SMPL.d_8098250	AG AL AS BE CD CO CR CU FE K MN NI PB SB SE TL V ZN
LCS-213798	1	25-Jun-2024 17:33	155SMPL.d_8098251	TL
CCB 4	1	25-Jun-2024 17:38	157_CCB.d_8098253	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCV 3	1	25-Jun-2024 17:52	160_CCV.d_8098256	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCV 4	1	25-Jun-2024 17:54	161_CCV.d_8098257	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCV 5	1	25-Jun-2024 18:22	172_CCV.d_8098363	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCB 5	1	25-Jun-2024 18:25	173_CCB.d_8098364	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ZZZZZZSD	10	25-Jun-2024 18:41	176SMPL.d_8098367	MN NA
ZZZZZZMS	2	25-Jun-2024 18:43	177SMPL.d_8098368	MN NA
ZZZZZZMSD	2	25-Jun-2024 18:46	178SMPL.d_8098369	MN NA
ZZZZZZPDS	2	25-Jun-2024 18:48	179SMPL.d_8098372	MN NA
MW14_061024	50	25-Jun-2024 19:03	182SMPL.d_8098804	MN NA
CO9_061024	20	25-Jun-2024 19:05	183SMPL.d_8098805	NA
CCV 6	1	25-Jun-2024 19:07	184_CCV.d_8098806	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCB 6	1	25-Jun-2024 19:10	185_CCB.d_8098807	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
126_061024	50	25-Jun-2024 19:22	187SMPL.d_8098809	BA CA MG NA
CCV 7	1	25-Jun-2024 19:37	193_CCV.d_8098815	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCB 7	1	25-Jun-2024 19:39	194_CCB.d_8098816	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN

ALS Houston, US

Date: 12-Jul-24

FORM 13 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060747
Start Date: 26-Jun-2024 End Date: 26-Jun-2024

Run ID:ICPMS07_470472
Instrument:ICPMS07
Method:

Sample No.	D/F	Time	FileID	Analytes
ICPMS07_470472_Tune	1	26-Jun-2024 00:00	ICPMS07_470472_Tune_1	
CAL BLK	1	26-Jun-2024 10:42	010CALB.d_8099730	AL ZN
2/10/200	1	26-Jun-2024 10:44	011CALS.d_8099731	AL ZN
5/25/500	1	26-Jun-2024 10:47	012CALS.d_8099732	AL ZN
10/50/100	1	26-Jun-2024 10:50	013CALS.d_8099733	AL ZN
100/500/10K	1	26-Jun-2024 10:53	014CALS.d_8099734	AL ZN
200/1000/20K	1	26-Jun-2024 10:55	015CALS.d_8099735	AL ZN
100/500/10K	1	26-Jun-2024 11:06	018CALS.d_8099738	AL ZN
200/1000/20K	1	26-Jun-2024 11:09	019CALS.d_8099739	AL ZN
ICV	1	26-Jun-2024 11:15	021_ICV.d_8099741	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LLICV2	1	26-Jun-2024 11:19	023LCV2.d_8099743	AL ZN
LLICV5	1	26-Jun-2024 11:22	024LCV5.d_8099744	AL ZN
ICB	1	26-Jun-2024 11:24	025_ICB.d_8099745	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICSA	1	26-Jun-2024 11:31	027ICSA.d_8099755	AL ZN
ICSAB	1	26-Jun-2024 11:34	028ICSB.d_8099756	AL ZN
CCV 1	1	26-Jun-2024 11:52	033_CCV.d_8099811	AL ZN
CCB 1	1	26-Jun-2024 11:55	034_CCB.d_8099812	AL ZN
ZZZZZZSD	5	26-Jun-2024 12:15	041SMPL.d_8099862	AL ZN
ZZZZZZMS	1	26-Jun-2024 12:18	042SMPL.d_8099863	AL ZN
ZZZZZZMSD	1	26-Jun-2024 12:20	043SMPL.d_8099864	AL ZN
ZZZZZZPDS	1	26-Jun-2024 12:23	044SMPL.d_8099865	AL ZN
CCV 2	1	26-Jun-2024 12:33	046_CCV.d_8099902	AL ZN
CCB 2	1	26-Jun-2024 12:35	047_CCB.d_8099903	AL ZN